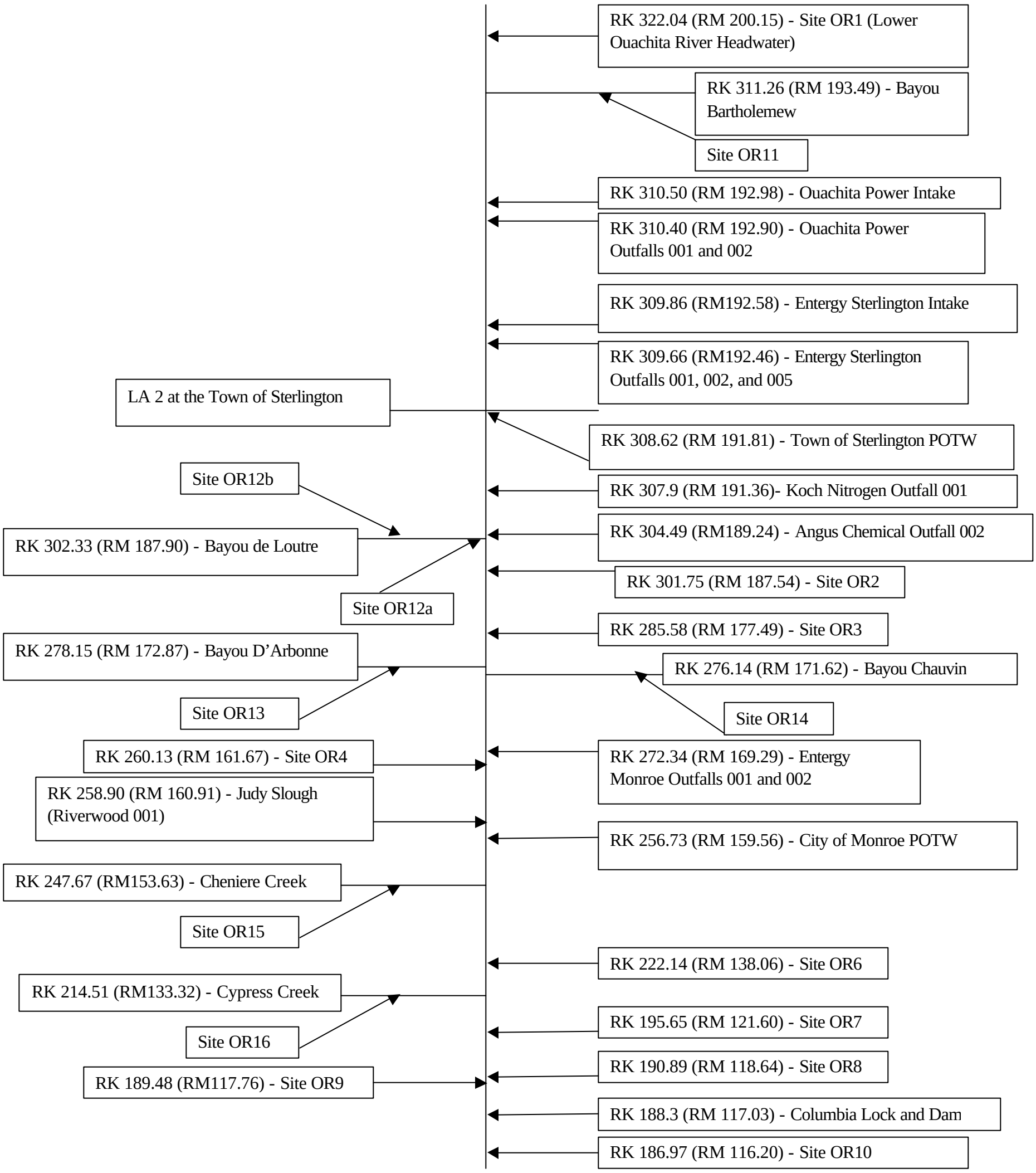
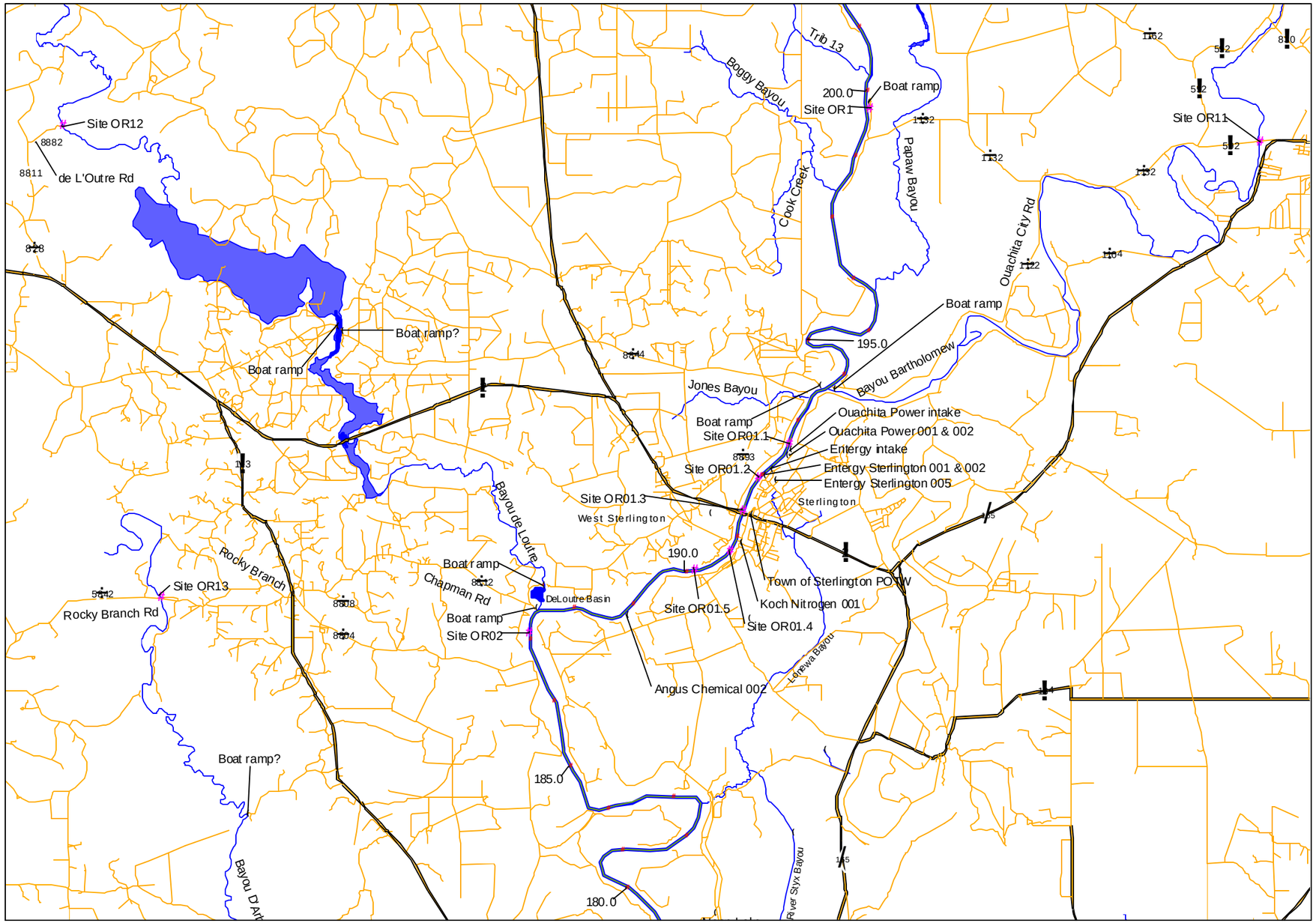
APPENDIX A - VECTOR DIAGRAM AND MAPPING

VECTOR DIAGRAM FOR A MODEL OF THE OUACHITA RIVER



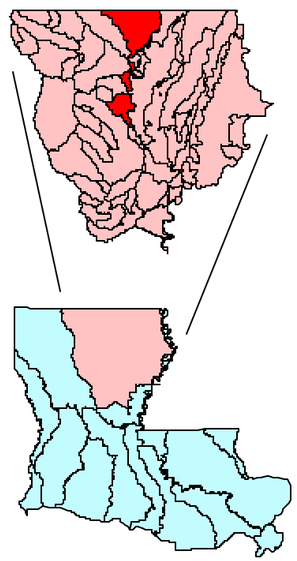
OUACHITA RIVER SUBSEGMENT 080101 - CHART 1



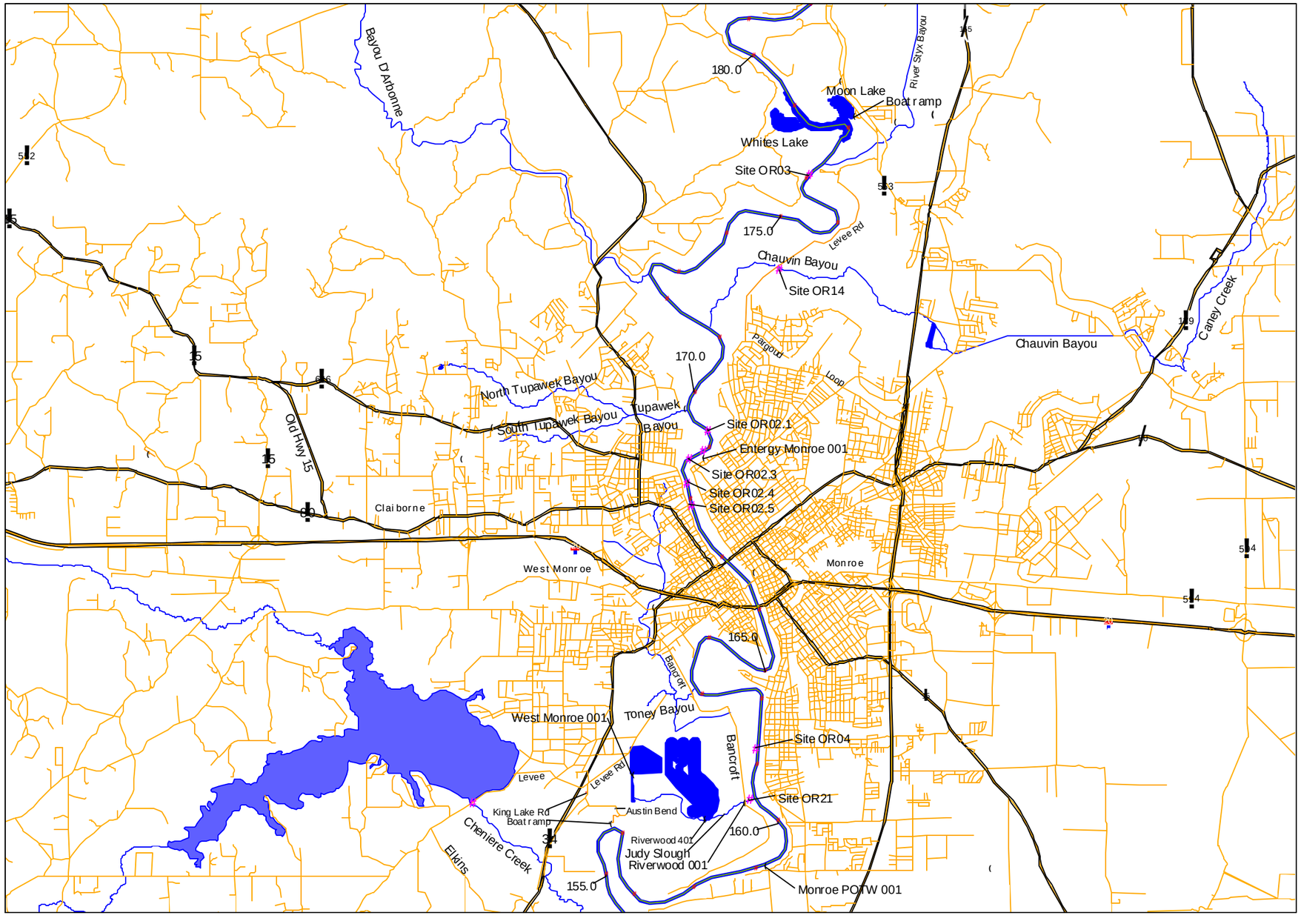
N

Map date: 5/7/2
Map number: 200203010
Map sources: ESRI Streetmap
USGS 7.5 minute quad raster maps
Map projection: UTM Zone 15 NAD 1927

LDEQ Disclaimer: The Louisiana Department of Environmental Quality (LDEQ) has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore, LDEQ cannot guarantee the accuracy of this data set, and does not accept any responsibility for the consequences of its use.



OUACHITA RIVER SUBSEGMENT 080101 - CHART 2



N

Map date: 5/15/02
Map number: 200203011
Map sources: ESRI Streetmap
USGS 7.5 minute quad raster maps
Map projection: UTM Zone 15 NAD 1927

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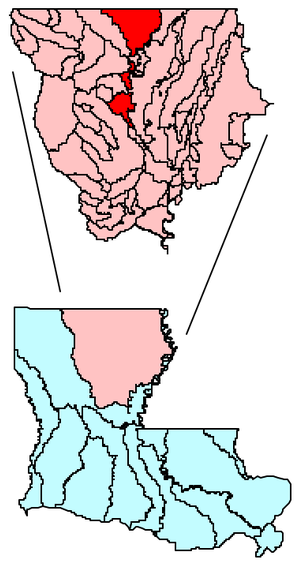
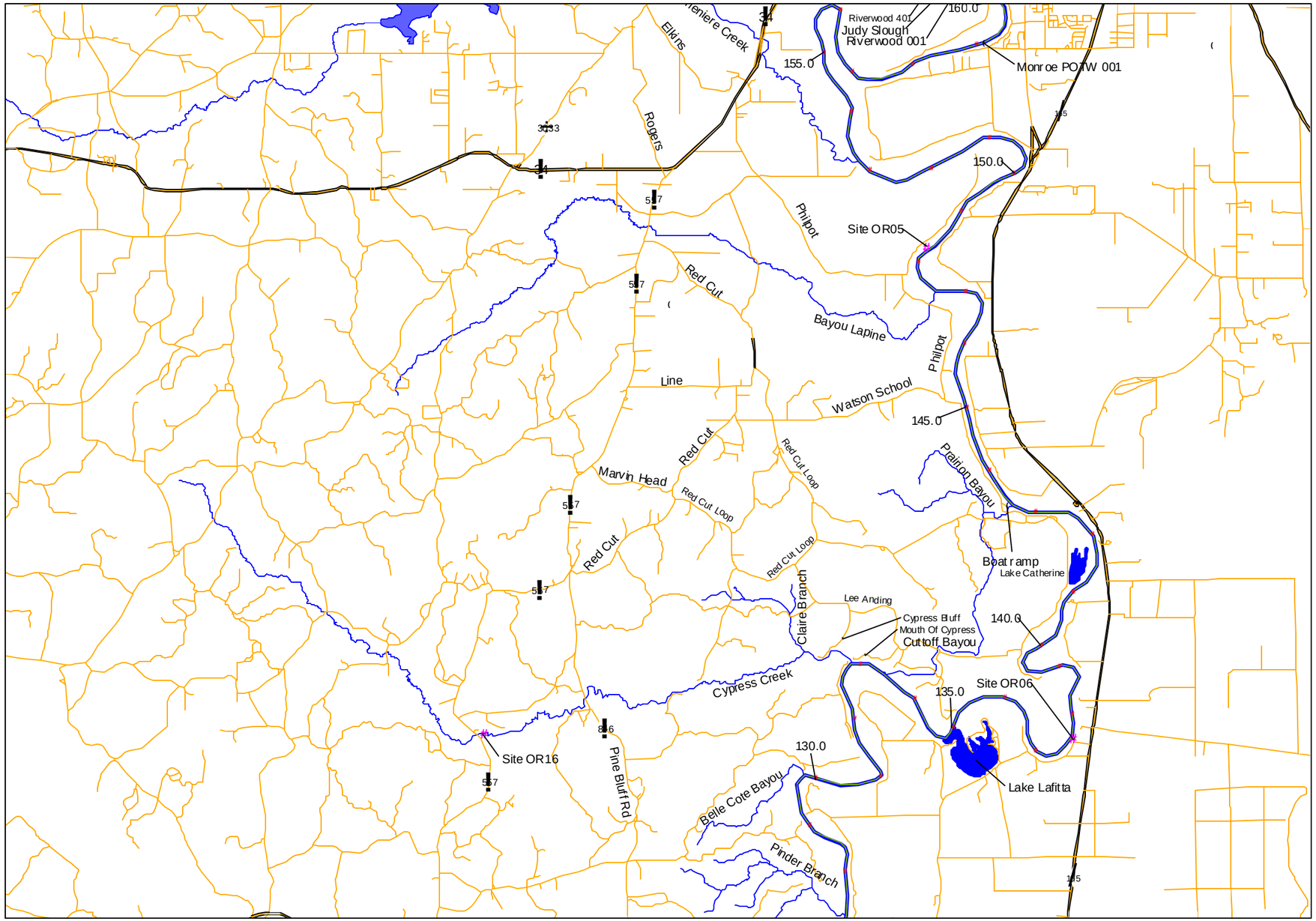


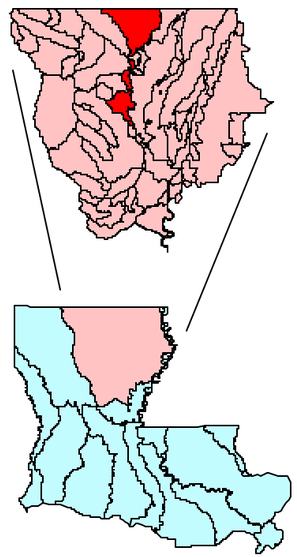
OUACHITA RIVER SUBSEGMENT 080101 - CHART 3



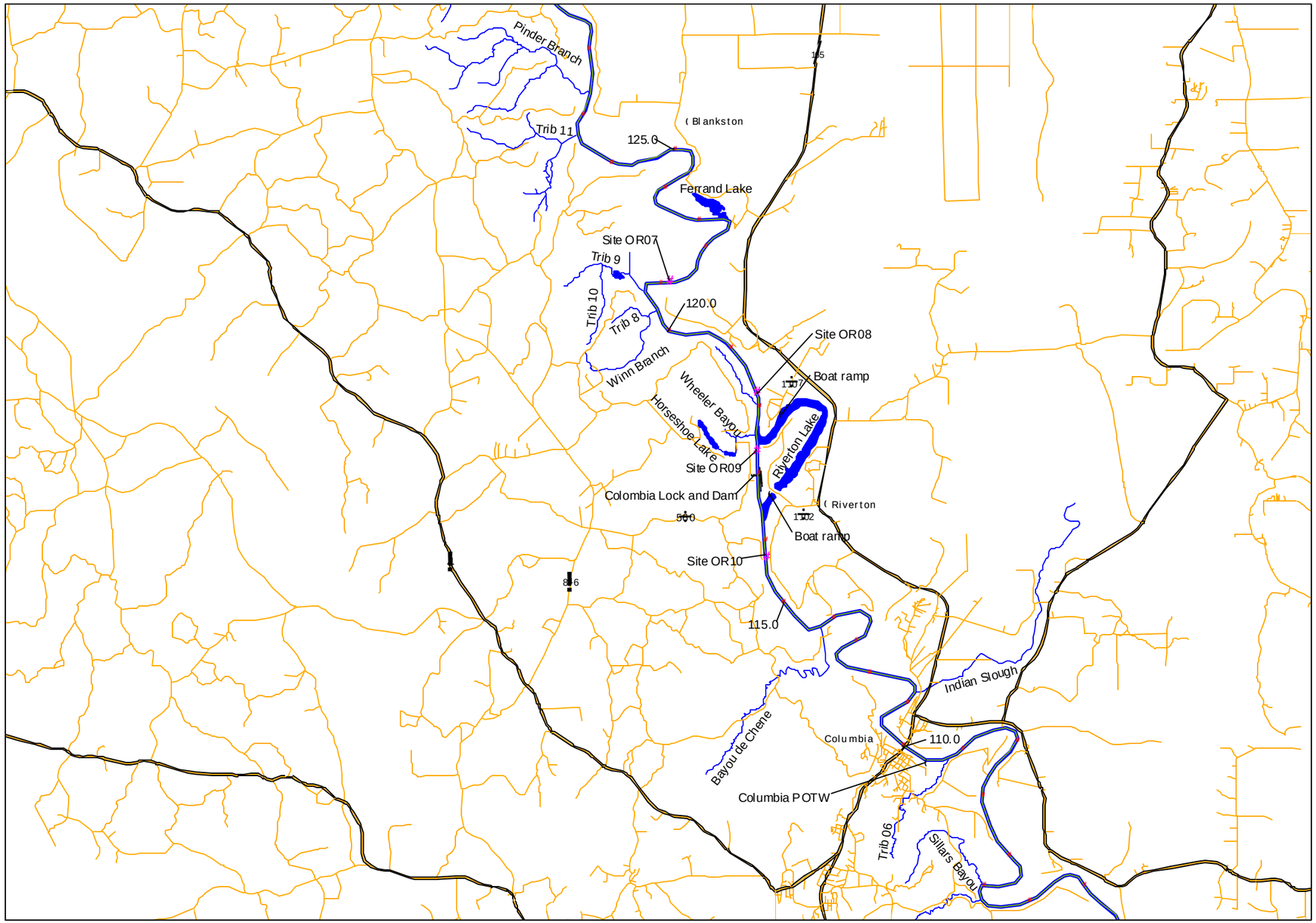
N

Map date: 5/16/02
Map number: 200203012
Map sources: ESRI Streetmap
USGS 7.5 minute quad raster maps
Map projection: UTM Zone 15 NAD 1927

LDEQ Disclaimer: The Louisiana Department of Environmental Quality (LDEQ) has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore, LDEQ cannot guarantee the accuracy of this data set, and does not accept any responsibility for the consequences of its use.



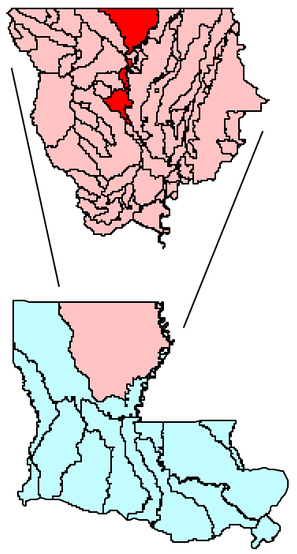
OUACHITA RIVER SUBSEGMENT 080101 - CHART 4



N

Map date: 5/16/02
Map number: 200203013
Map sources: ESRI Streetmap
USGS 7.5 minute quad raster maps
Map projection: UTM Zone 15 NAD 1927

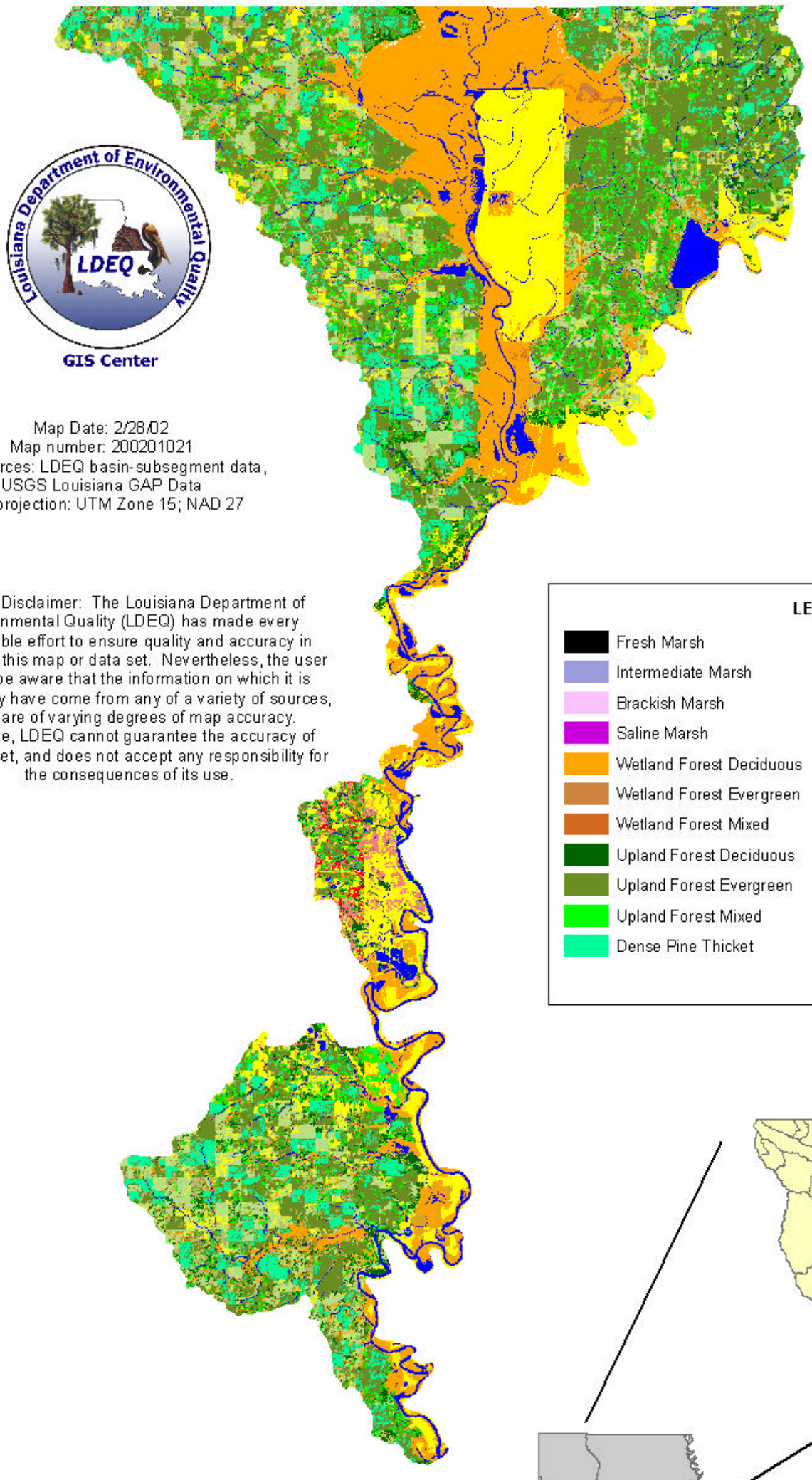
LDEQ Disclaimer: The Louisiana Department of Environmental Quality (LDEQ) has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore, LDEQ cannot guarantee the accuracy of this data set, and does not accept any responsibility for the consequences of its use.

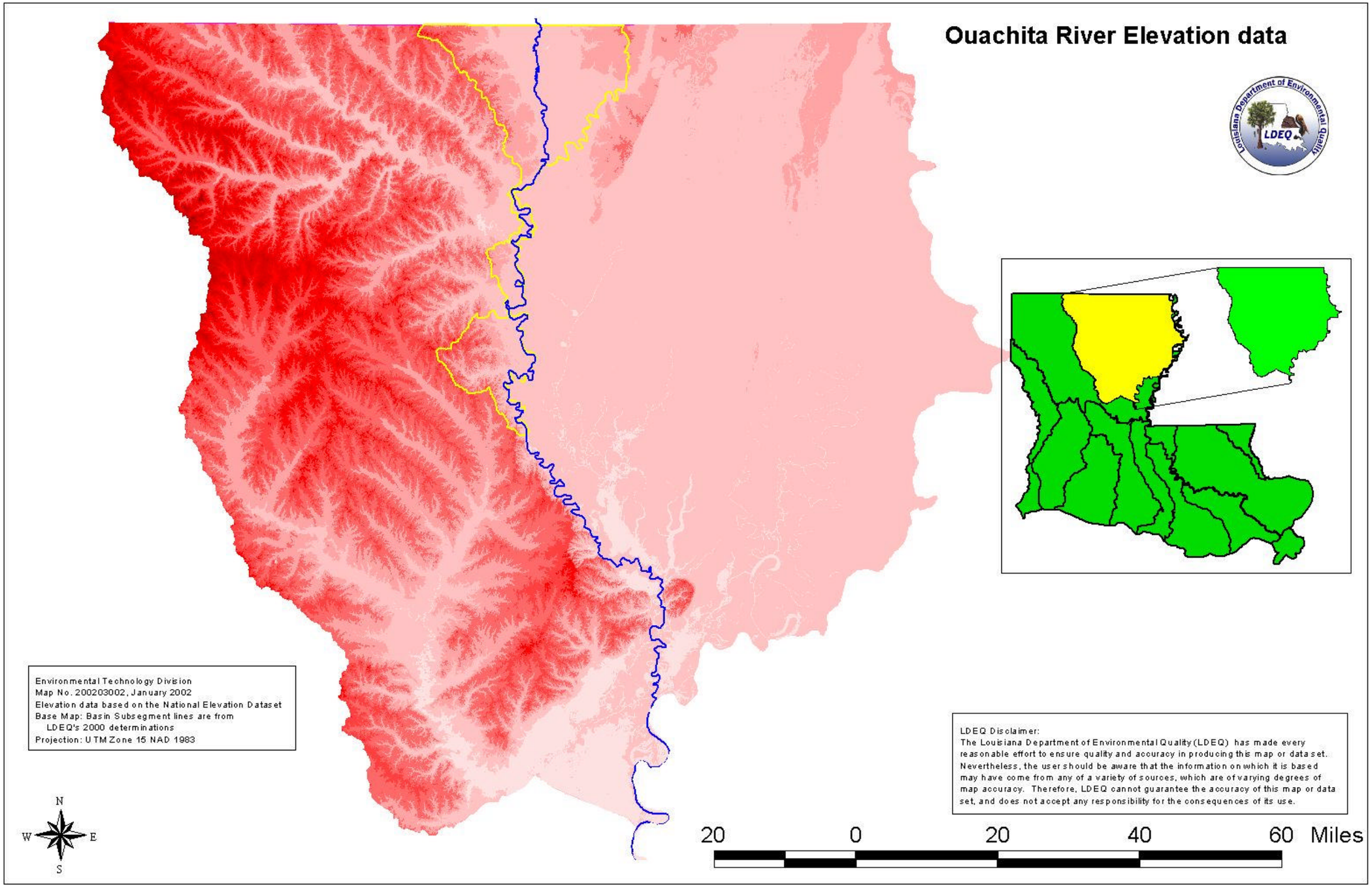


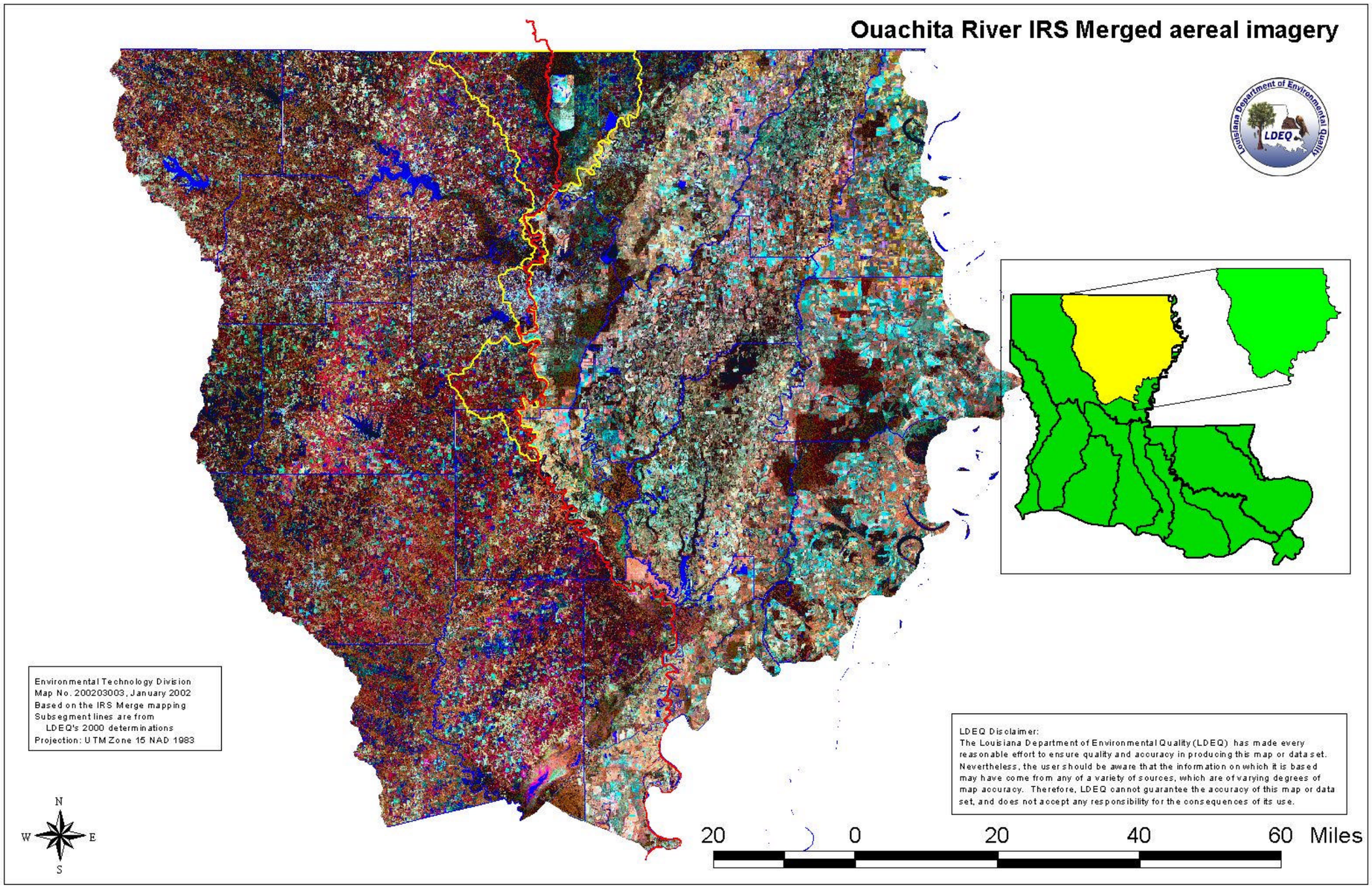
LDEQ BASIN SUBSEGMENT 080101

USGS Louisisna GAP Land Cover

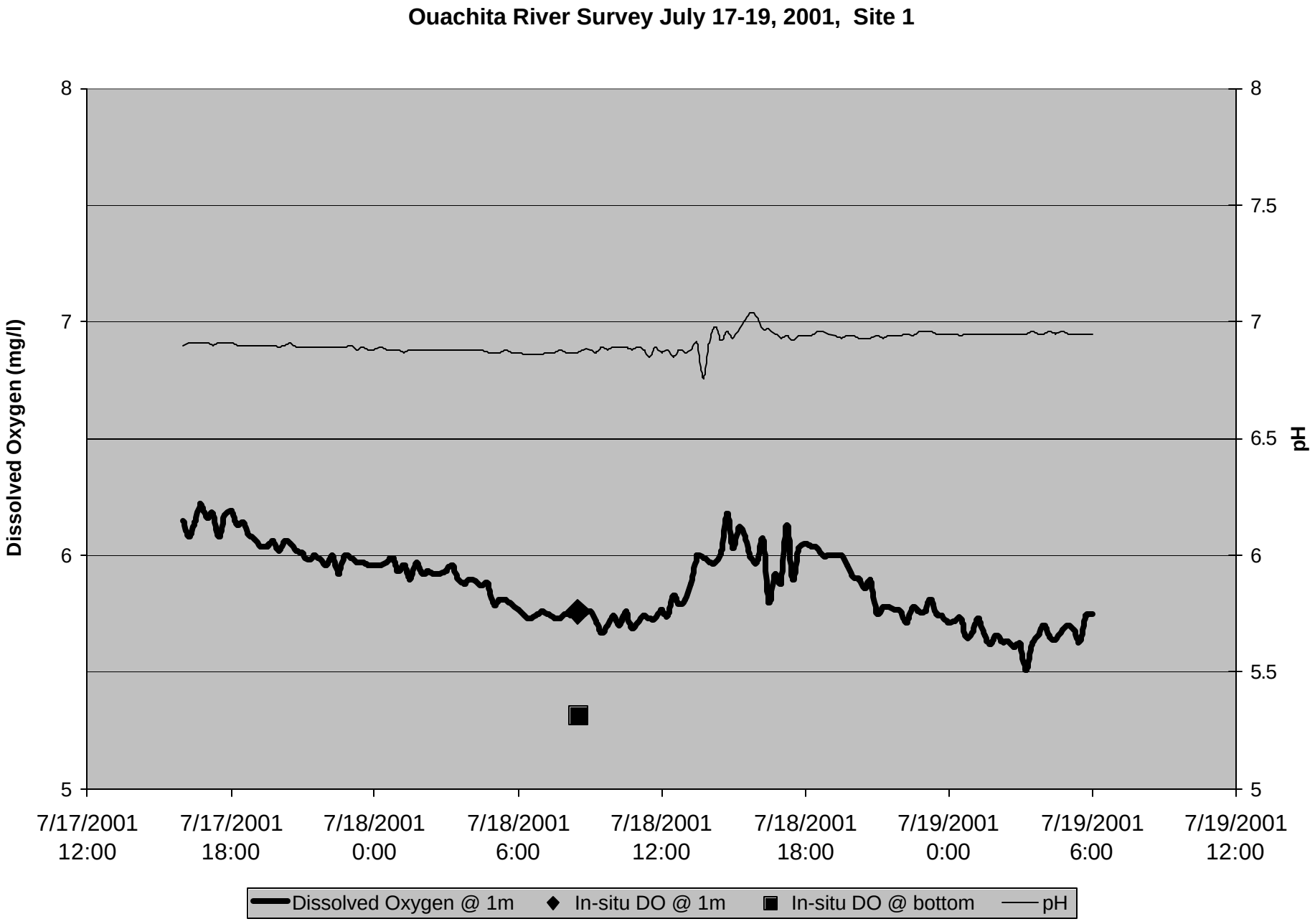
Ouachita River

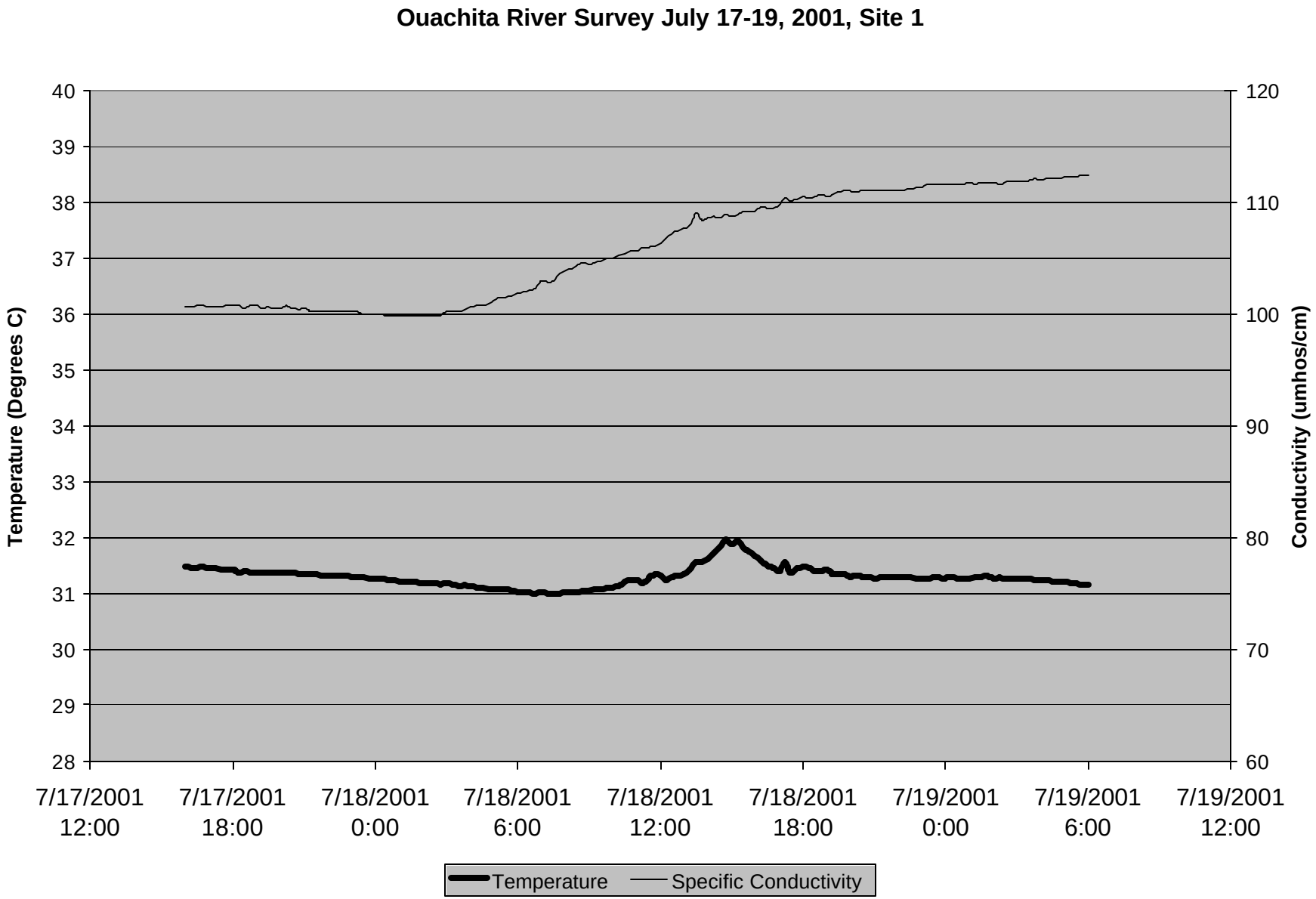



Ouachita River Elevation data
Louisiana Department of Environmental Quality
LDEQ
Environmental Technology Division
Map No. 200203002, January 2002
Elevation data based on the National Elevation Dataset
Base Map: Basin Subsegment lines are from
LDEQ's 2000 determinations
Projection: UTM Zone 15 NAD 1983
LDEQ Disclaimer:
The Louisiana Department of Environmental Quality (LDEQ) has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore, LDEQ cannot guarantee the accuracy of this map or data set, and does not accept any responsibility for the consequences of its use.
N
W
E
S
20 0 20 40 60 Miles

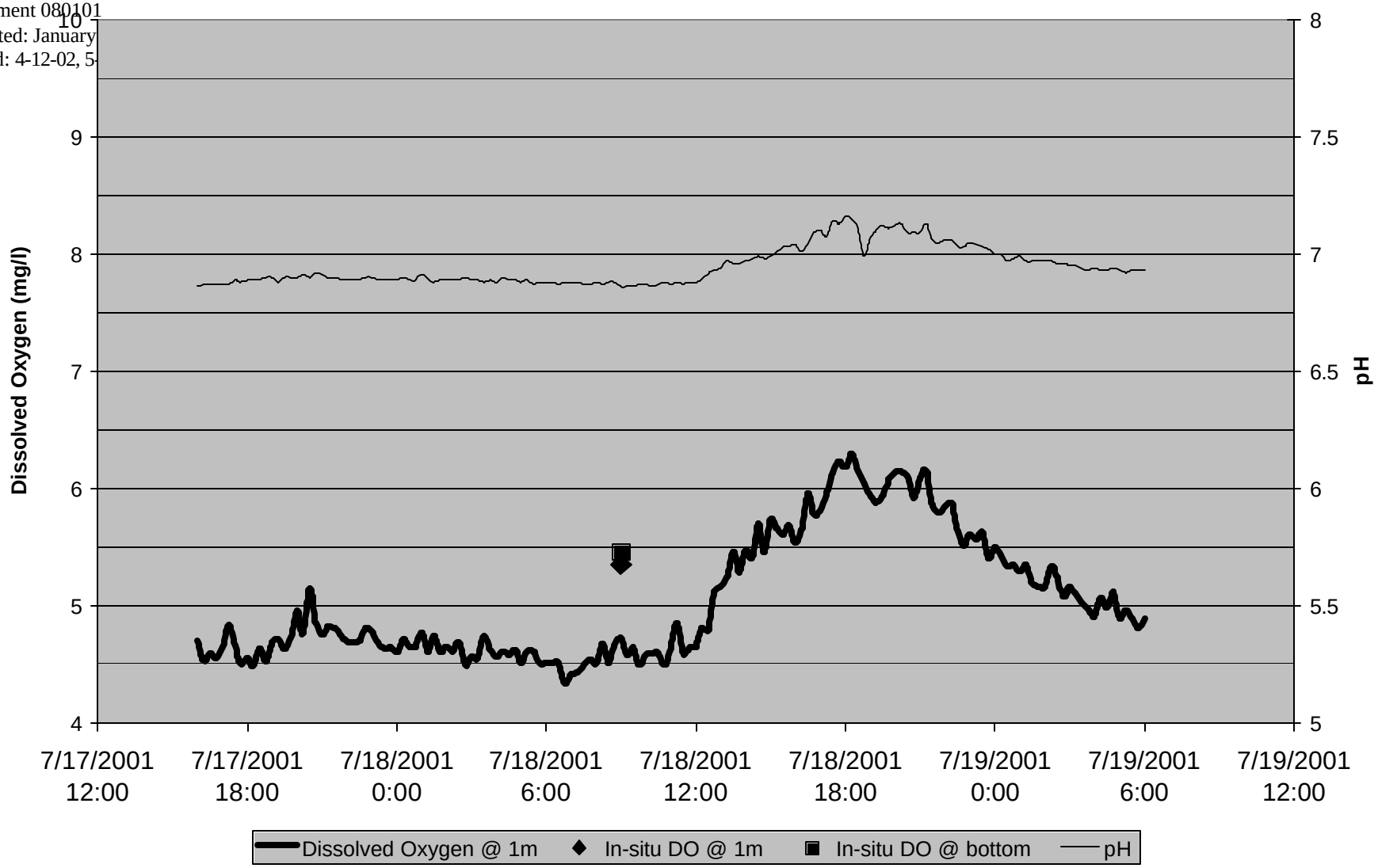

Ouachita River IRS Merged aereal imagery
Louisiana Department of Environmental Quality
LDEQ
Environmental Technology Division
Map No. 200203003, January 2002
Based on the IRS Merge mapping
Subsegment lines are from
LDEQ's 2000 determinations
Projection: UTM Zone 15 NAD 1983
LDEQ Disclaimer:
The Louisiana Department of Environmental Quality (LDEQ) has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore, LDEQ cannot guarantee the accuracy of this map or data set, and does not accept any responsibility for the consequences of its use.
N
W
E
S
20 0 20 40 60 Miles

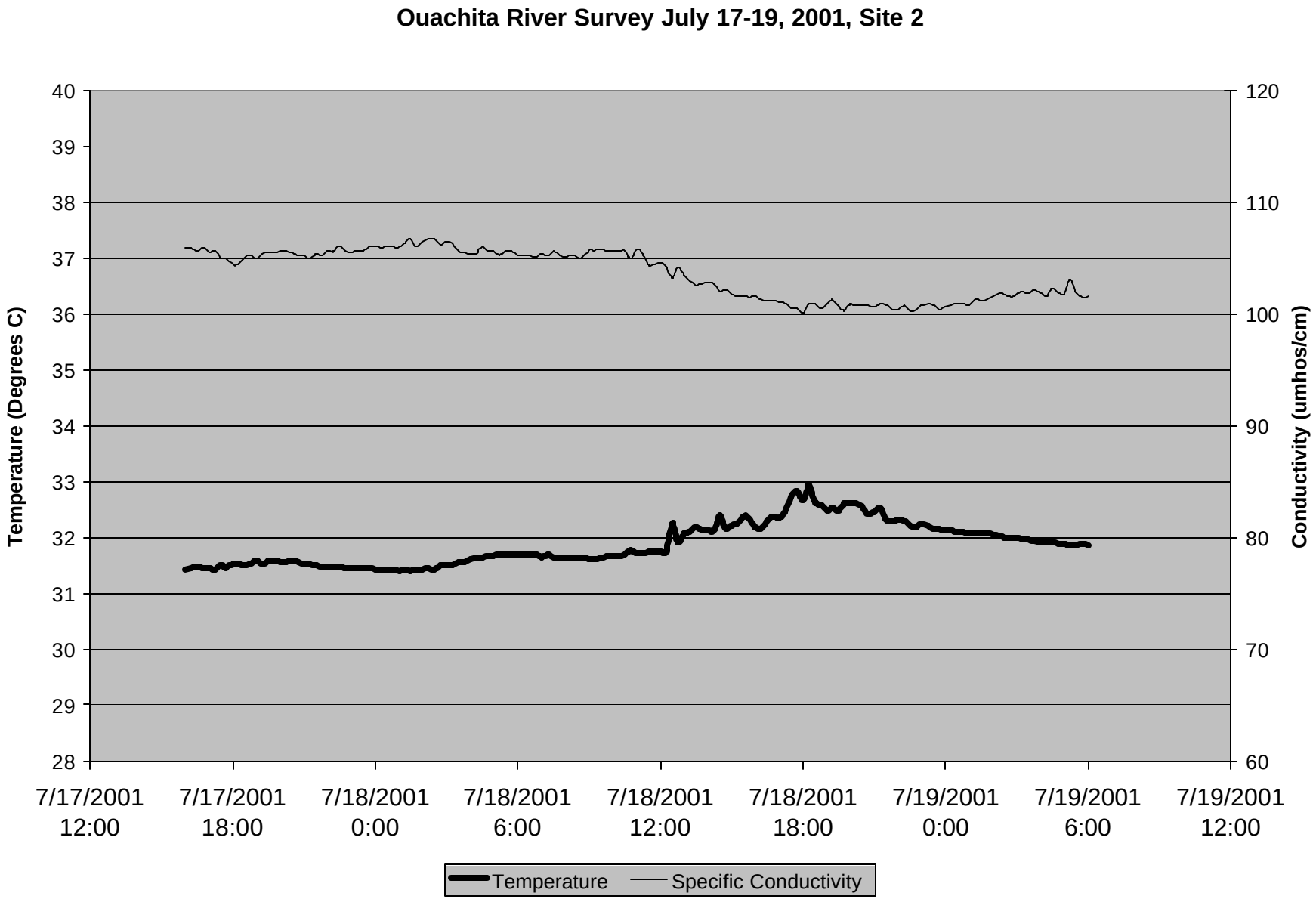
APPENDIX B – SUMMARY OF SURVEY DATA

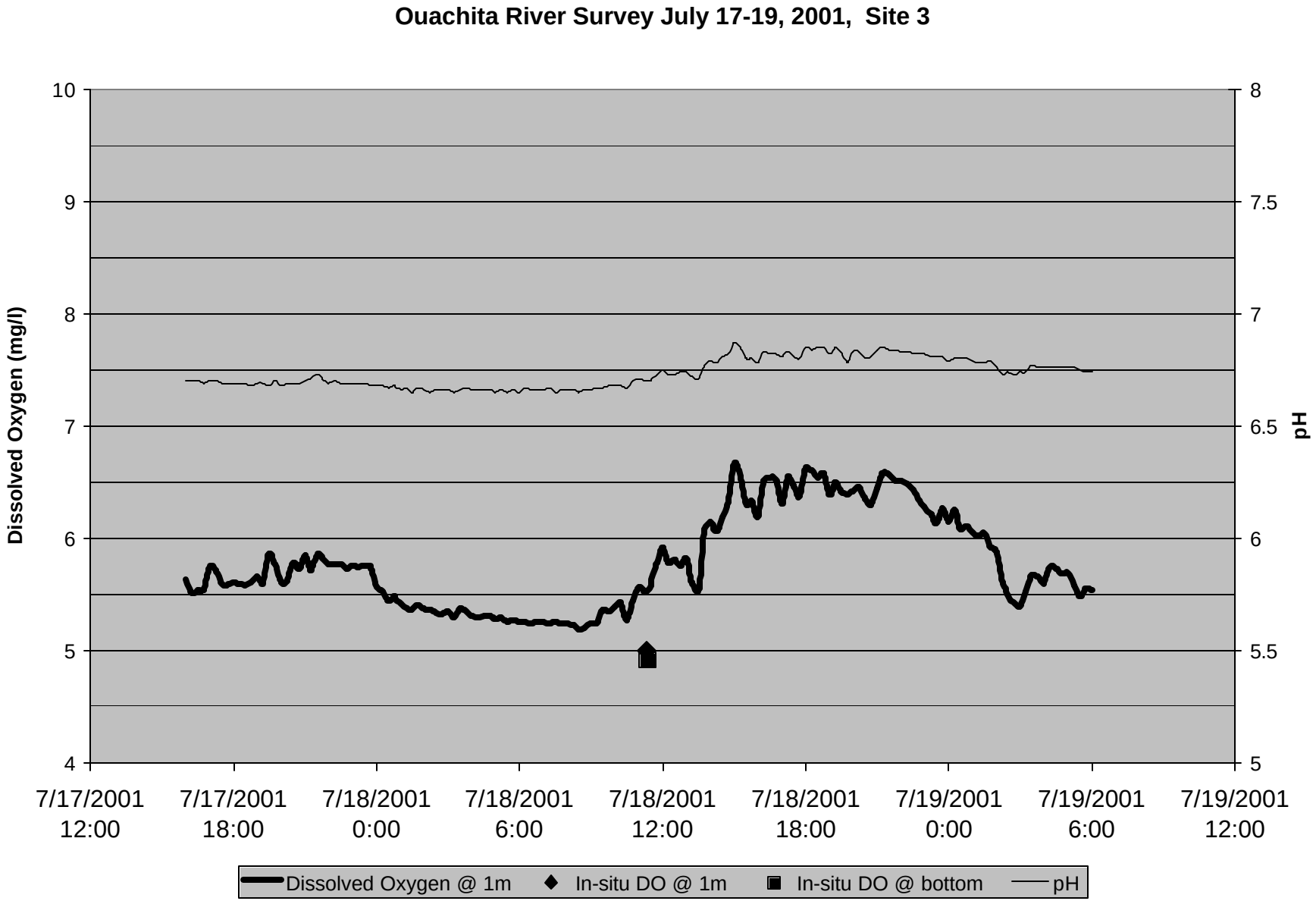

Ouachita River Survey July 17-19, 2001, Site 1
Dissolved Oxygen (mg/l)
pH
8
7.5
7
6.5
6
5.5
5
7/17/2001 12:00
7/17/2001 18:00
7/18/2001 0:00
7/18/2001 6:00
7/18/2001 12:00
7/18/2001 18:00
7/19/2001 0:00
7/19/2001 6:00
7/19/2001 12:00
Dissolved Oxygen @ 1m
In-situ DO @ 1m
In-situ DO @ bottom
pH

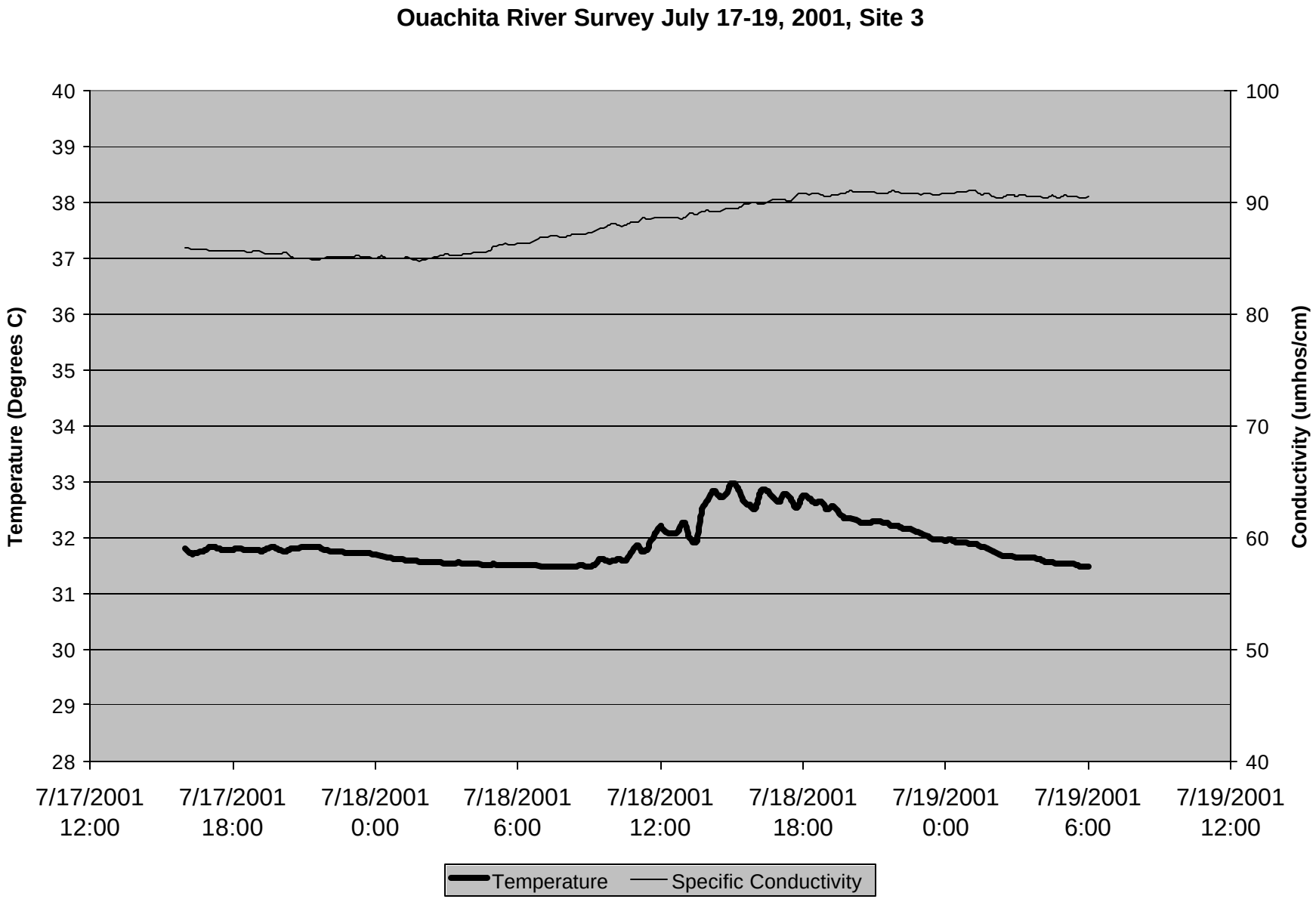

Ouachita River Survey July 17-19, 2001, Site 1
Temperature (Degrees C)
Conductivity (umhos/cm)
40
39
38
37
36
35
34
33
32
31
30
29
28
120
110
100
90
80
70
60
7/17/2001 12:00
7/17/2001 18:00
7/18/2001 0:00
7/18/2001 6:00
7/18/2001 12:00
7/18/2001 18:00
7/19/2001 0:00
7/19/2001 6:00
7/19/2001 12:00
Temperature
Specific Conductivity

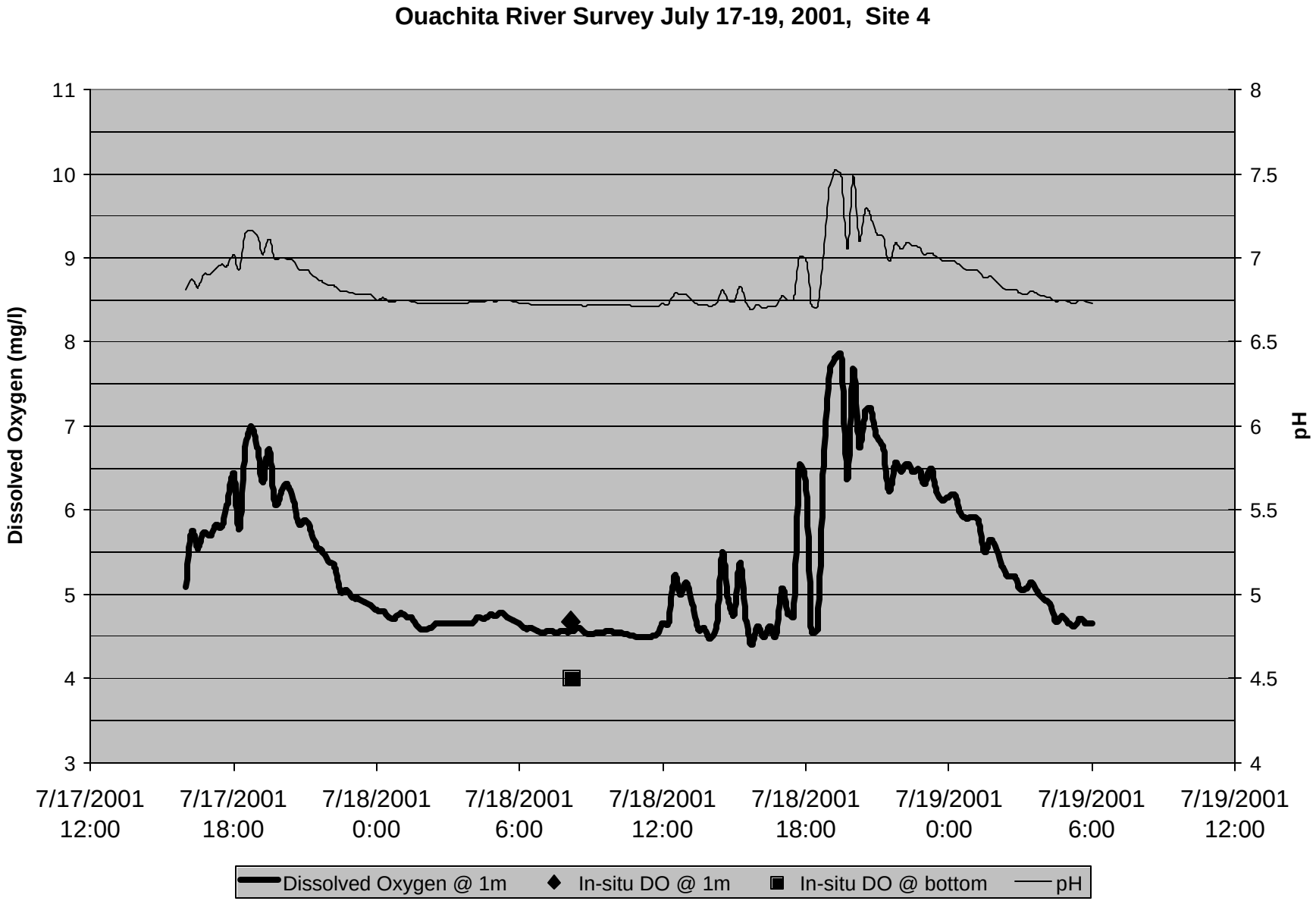
Ouachita River Survey July 17-19, 2001, Site 2

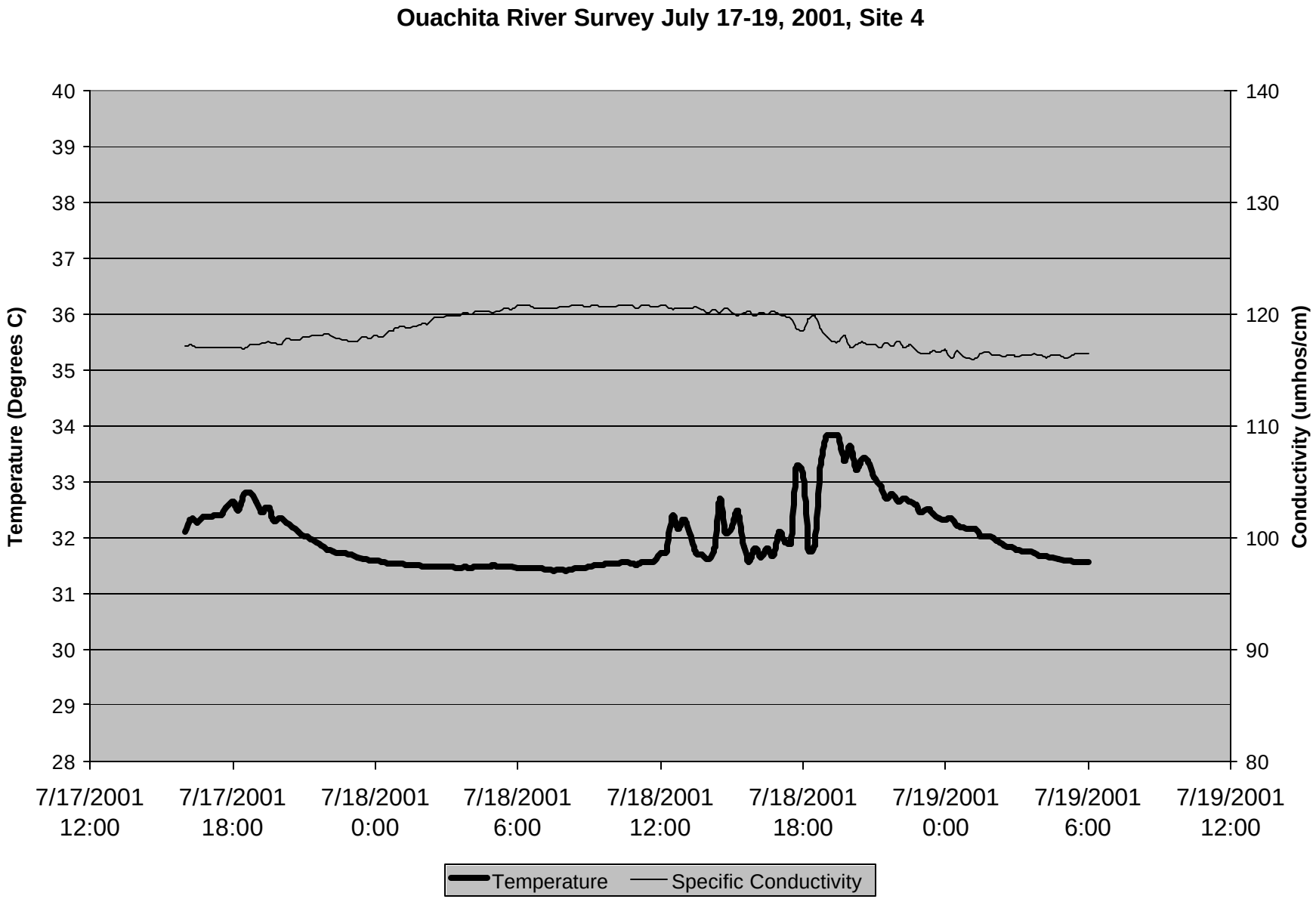


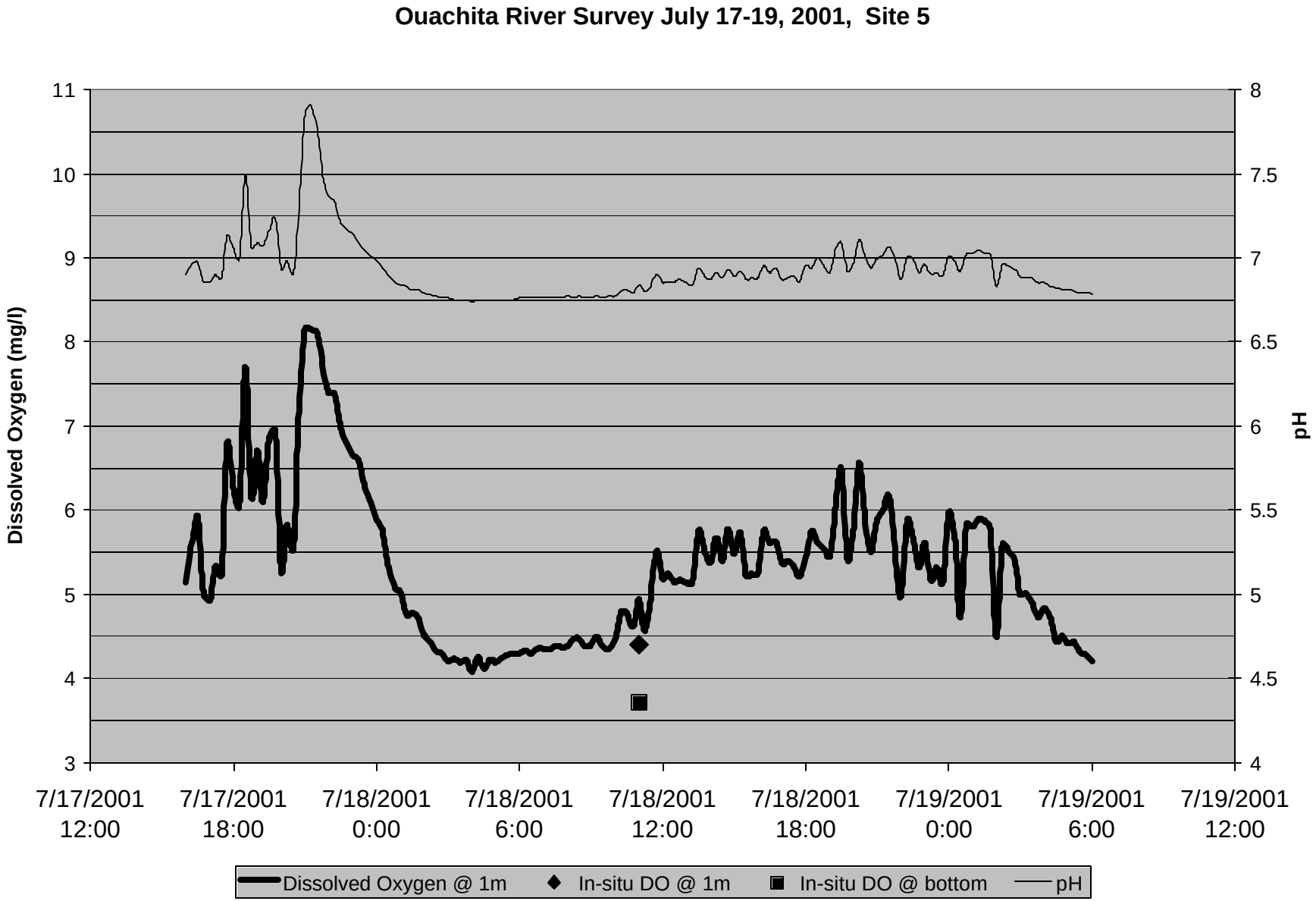

Ouachita River Survey July 17-19, 2001, Site 2
Temperature (Degrees C)
Conductivity (umhos/cm)
40
39
38
37
36
35
34
33
32
31
30
29
28
120
110
100
90
80
70
60
7/17/2001 12:00
7/17/2001 18:00
7/18/2001 0:00
7/18/2001 6:00
7/18/2001 12:00
7/18/2001 18:00
7/19/2001 0:00
7/19/2001 6:00
7/19/2001 12:00
Temperature
Specific Conductivity

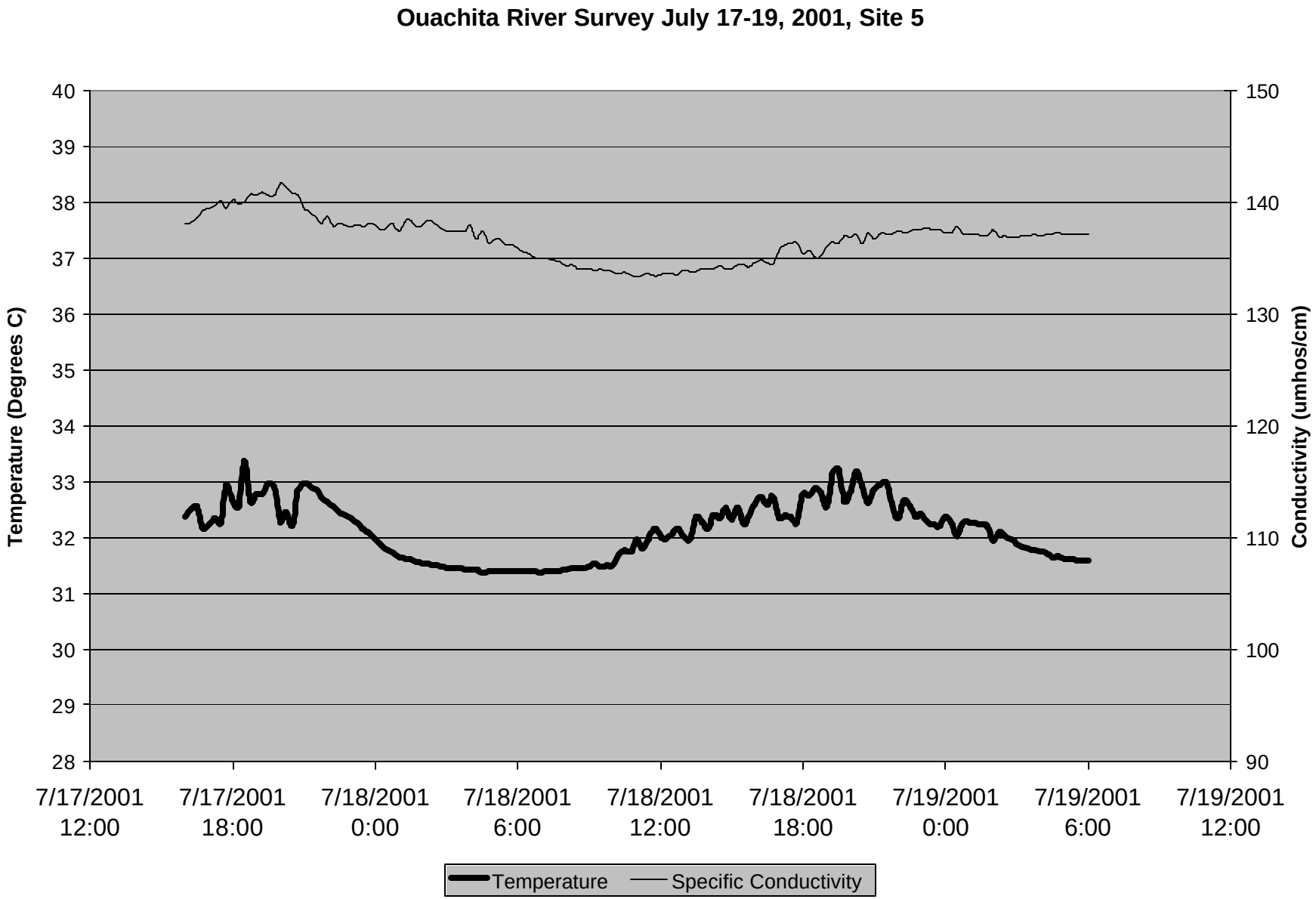

Ouachita River Survey July 17-19, 2001, Site 3
Dissolved Oxygen (mg/l)
pH
10
9
8
7
6
5
4
8
7.5
7
6.5
6
5.5
5
7/17/2001 12:00
7/17/2001 18:00
7/18/2001 0:00
7/18/2001 6:00
7/18/2001 12:00
7/18/2001 18:00
7/19/2001 0:00
7/19/2001 6:00
7/19/2001 12:00
Dissolved Oxygen @ 1m
In-situ DO @ 1m
In-situ DO @ bottom
pH

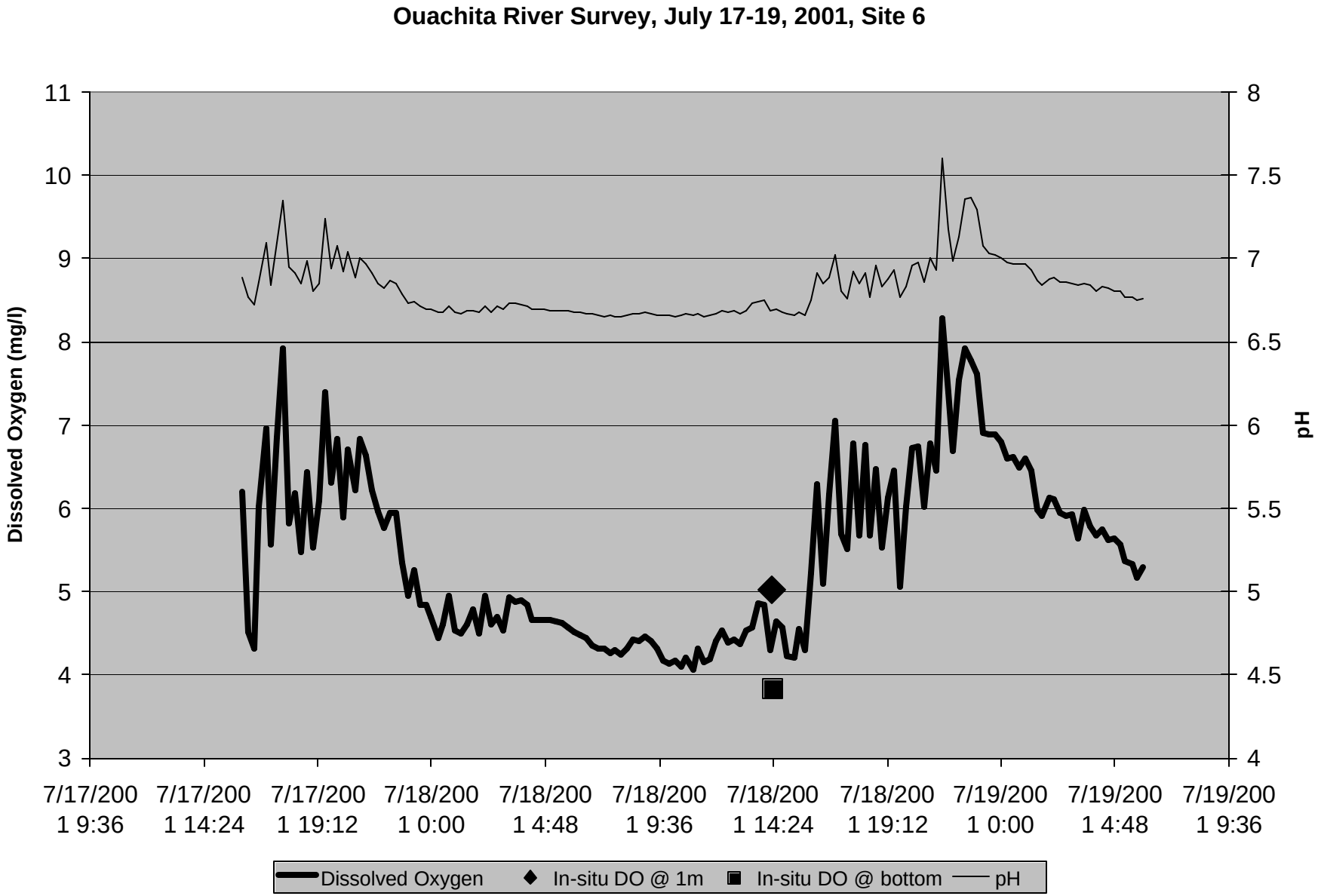

Ouachita River Survey July 17-19, 2001, Site 3
Temperature (Degrees C)
Conductivity (umhos/cm)
40
39
38
37
36
35
34
33
32
31
30
29
28
100
90
80
70
60
50
40
7/17/2001 12:00
7/17/2001 18:00
7/18/2001 0:00
7/18/2001 6:00
7/18/2001 12:00
7/18/2001 18:00
7/19/2001 0:00
7/19/2001 6:00
7/19/2001 12:00
Temperature
Specific Conductivity

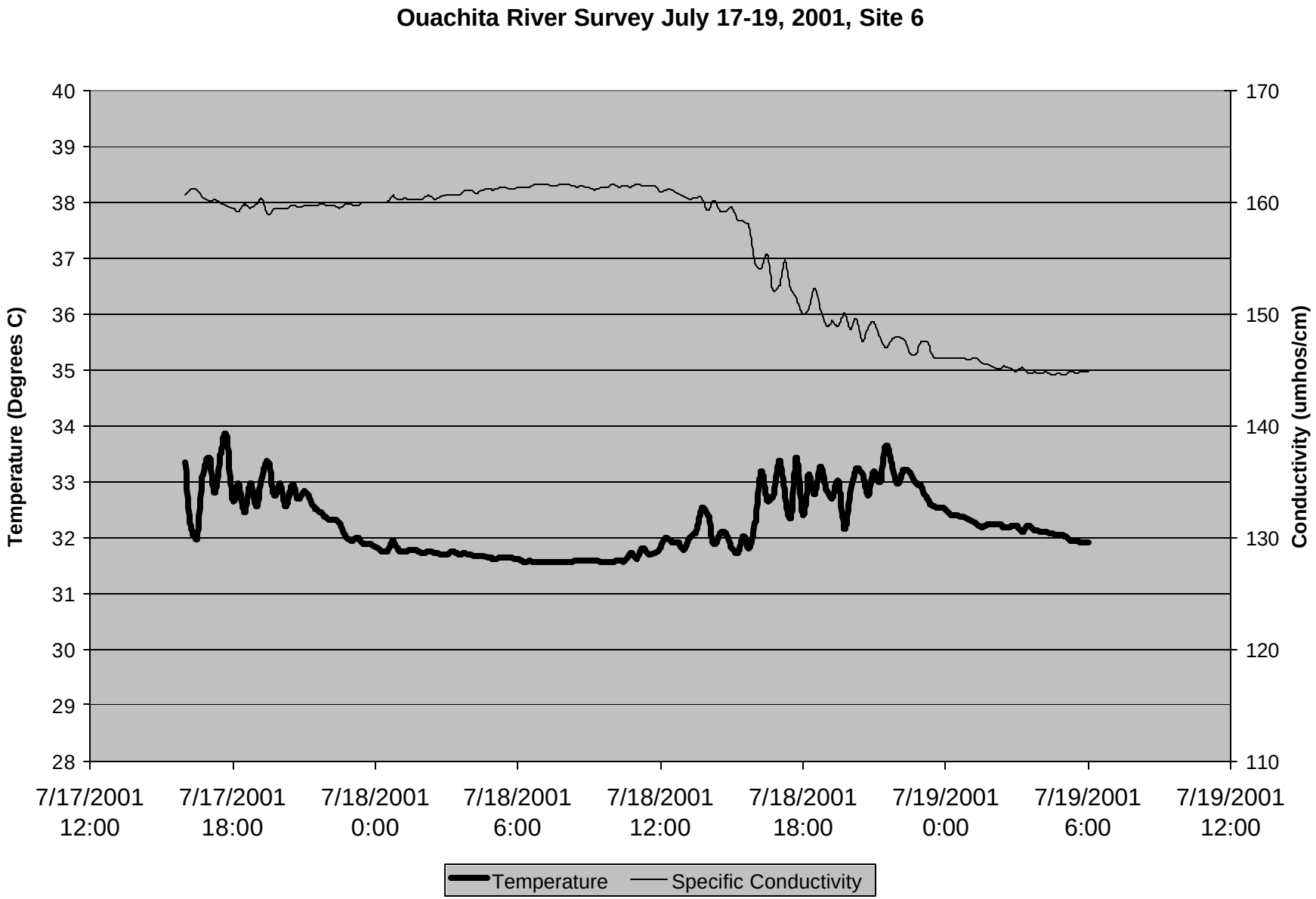

Ouachita River Survey July 17-19, 2001, Site 4
Dissolved Oxygen (mg/l)
pH
11
10
9
8
7
6
5
4
3
8
7.5
7
6.5
6
5.5
5
4.5
4
7/17/2001 12:00
7/17/2001 18:00
7/18/2001 0:00
7/18/2001 6:00
7/18/2001 12:00
7/18/2001 18:00
7/19/2001 0:00
7/19/2001 6:00
7/19/2001 12:00
Dissolved Oxygen @ 1m
In-situ DO @ 1m
In-situ DO @ bottom
pH

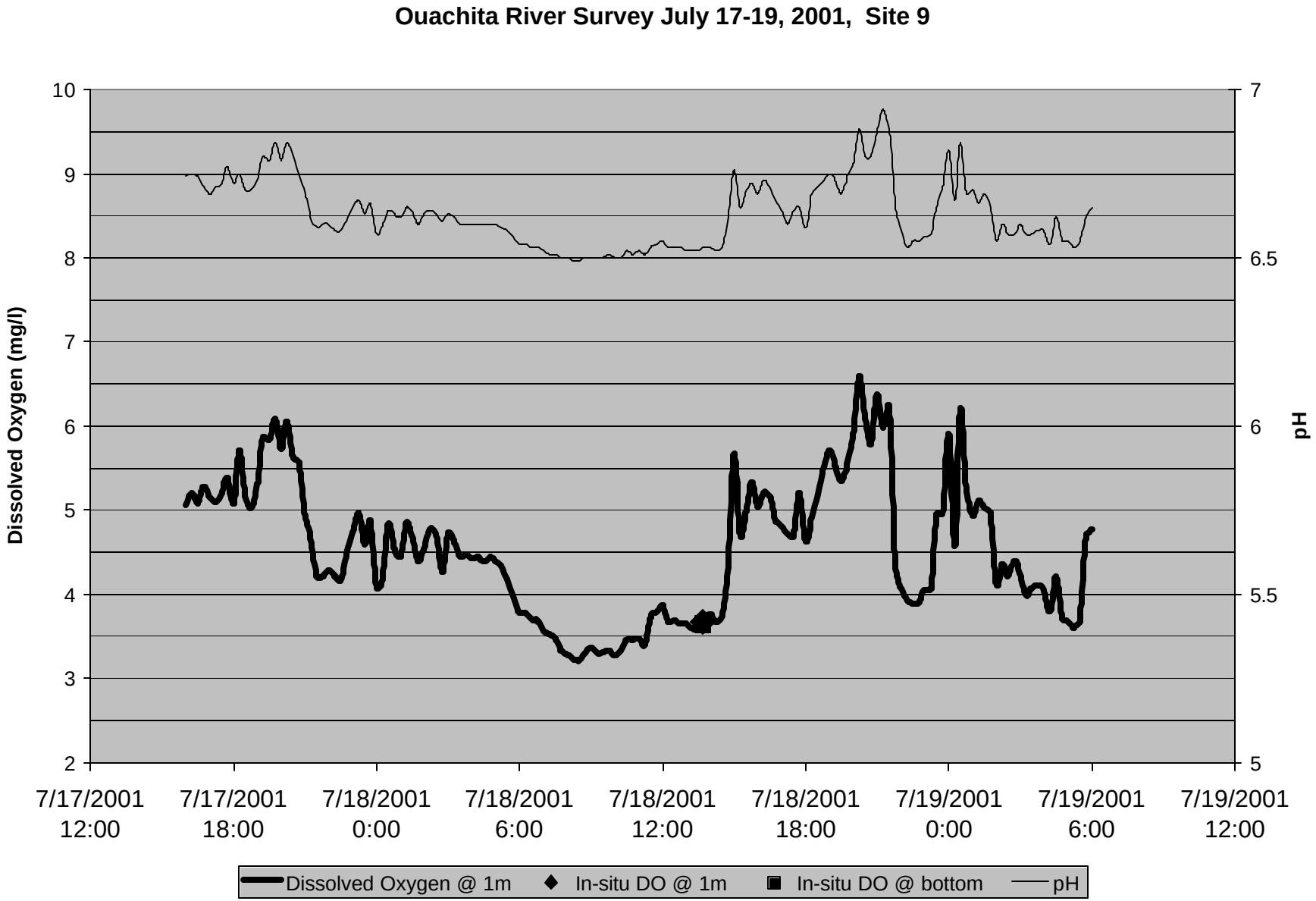

Ouachita River Survey July 17-19, 2001, Site 4
Temperature (Degrees C)
Conductivity (umhos/cm)
40
39
38
37
36
35
34
33
32
31
30
29
28
140
130
120
110
100
90
80
7/17/2001 12:00
7/17/2001 18:00
7/18/2001 0:00
7/18/2001 6:00
7/18/2001 12:00
7/18/2001 18:00
7/19/2001 0:00
7/19/2001 6:00
7/19/2001 12:00
Temperature
Specific Conductivity

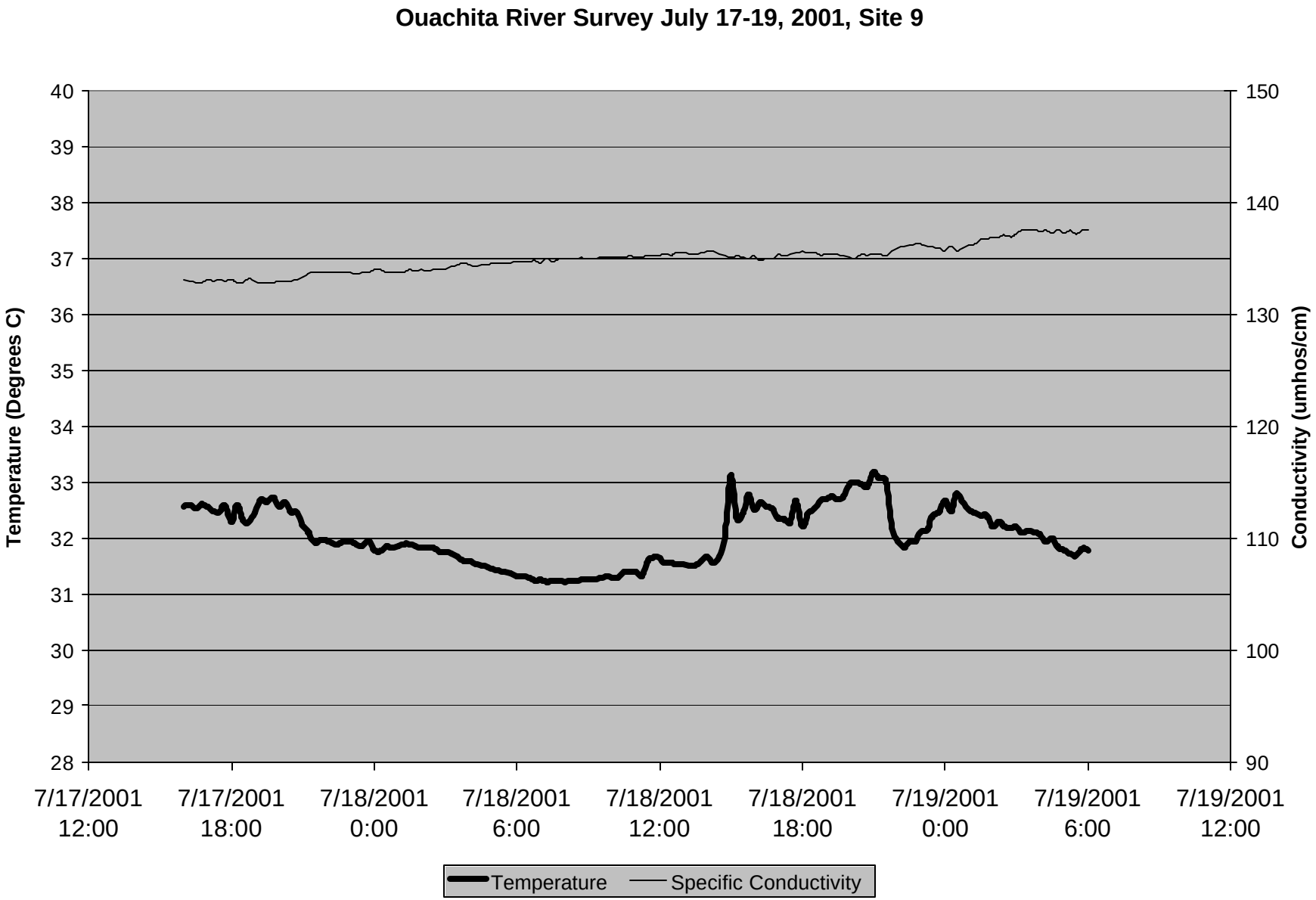

Ouachita River Survey July 17-19, 2001, Site 5
Dissolved Oxygen (mg/l)
pH
11
10
9
8
7
6
5
4
3
8
7.5
7
6.5
6
5.5
5
4.5
4
7/17/2001 12:00
7/17/2001 18:00
7/18/2001 0:00
7/18/2001 6:00
7/18/2001 12:00
7/18/2001 18:00
7/19/2001 0:00
7/19/2001 6:00
7/19/2001 12:00
Dissolved Oxygen @ 1m
In-situ DO @ 1m
In-situ DO @ bottom
pH


Ouachita River Survey July 17-19, 2001, Site 5
Temperature (Degrees C)
Conductivity (umhos/cm)
40
39
38
37
36
35
34
33
32
31
30
29
28
150
140
130
120
110
100
90
7/17/2001 12:00
7/17/2001 18:00
7/18/2001 0:00
7/18/2001 6:00
7/18/2001 12:00
7/18/2001 18:00
7/19/2001 0:00
7/19/2001 6:00
7/19/2001 12:00
Temperature
Specific Conductivity


Ouachita River Survey, July 17-19, 2001, Site 6
Dissolved Oxygen (mg/l)
pH
11
10
9
8
7
6
5
4
3
8
7.5
7
6.5
6
5.5
5
4.5
4
7/17/2001 9:36
7/17/2001 14:24
7/17/2001 19:12
7/18/2001 0:00
7/18/2001 4:48
7/18/2001 9:36
7/18/2001 14:24
7/18/2001 19:12
7/19/2001 0:00
7/19/2001 4:48
7/19/2001 9:36
Dissolved Oxygen
In-situ DO @ 1m
In-situ DO @ bottom
pH


Ouachita River Survey July 17-19, 2001, Site 6
Temperature (Degrees C)
Conductivity (umhos/cm)
40
39
38
37
36
35
34
33
32
31
30
29
28
170
160
150
140
130
120
110
7/17/2001 12:00
7/17/2001 18:00
7/18/2001 0:00
7/18/2001 6:00
7/18/2001 12:00
7/18/2001 18:00
7/19/2001 0:00
7/19/2001 6:00
7/19/2001 12:00
Temperature
Specific Conductivity

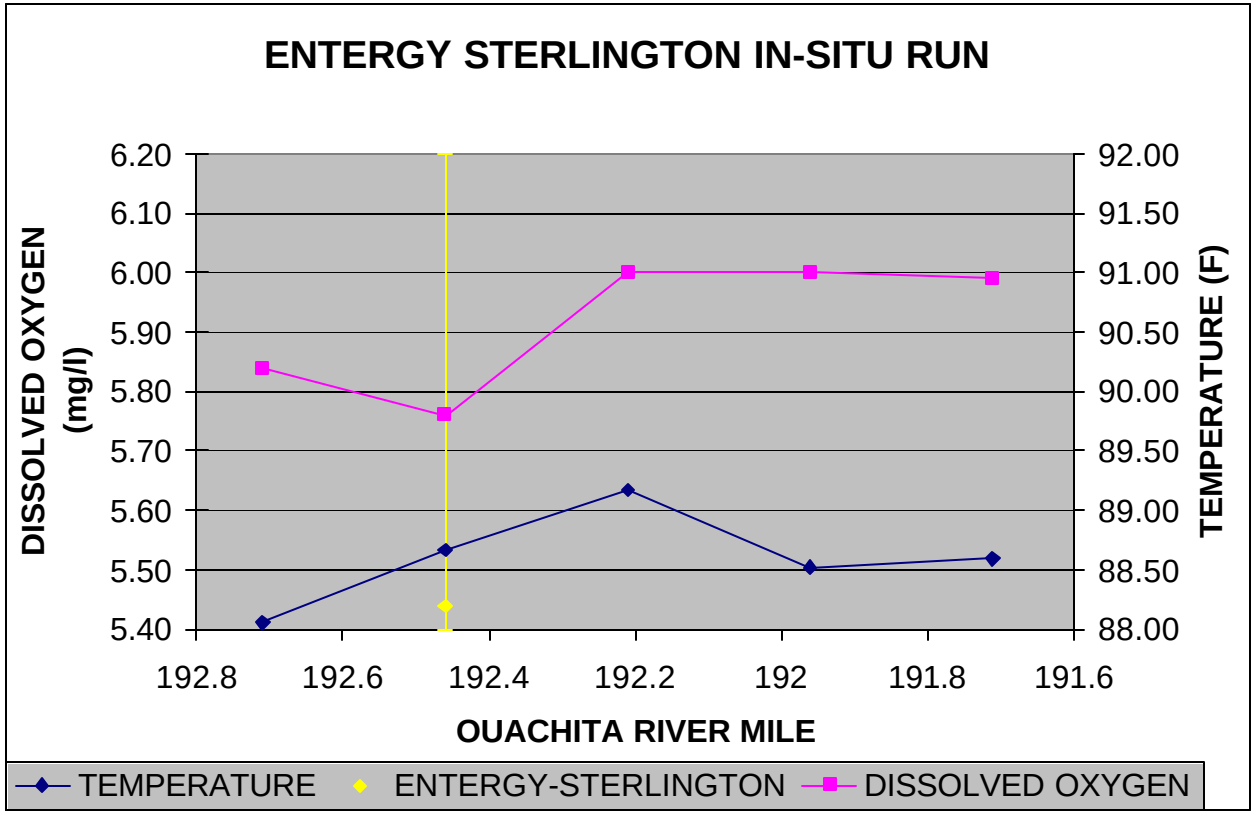

Ouachita River Survey July 17-19, 2001, Site 9
Dissolved Oxygen (mg/l)
pH
10
9
8
7
6
5
4
3
2
7
6.5
6
5.5
5
7/17/2001 12:00
7/17/2001 18:00
7/18/2001 0:00
7/18/2001 6:00
7/18/2001 12:00
7/18/2001 18:00
7/19/2001 0:00
7/19/2001 6:00
7/19/2001 12:00
Dissolved Oxygen @ 1m
In-situ DO @ 1m
In-situ DO @ bottom
pH


Ouachita River Survey July 17-19, 2001, Site 9
Temperature (Degrees C)
Conductivity (umhos/cm)
40
39
38
37
36
35
34
33
32
31
30
29
28
150
140
130
120
110
100
90
7/17/2001 12:00
7/17/2001 18:00
7/18/2001 0:00
7/18/2001 6:00
7/18/2001 12:00
7/18/2001 18:00
7/19/2001 0:00
7/19/2001 6:00
7/19/2001 12:00
Temperature
Specific Conductivity

LOWER OUACHITA RIVER SURVEY IN-SITU RUNS FOR ENTERGY POWER PLANTS

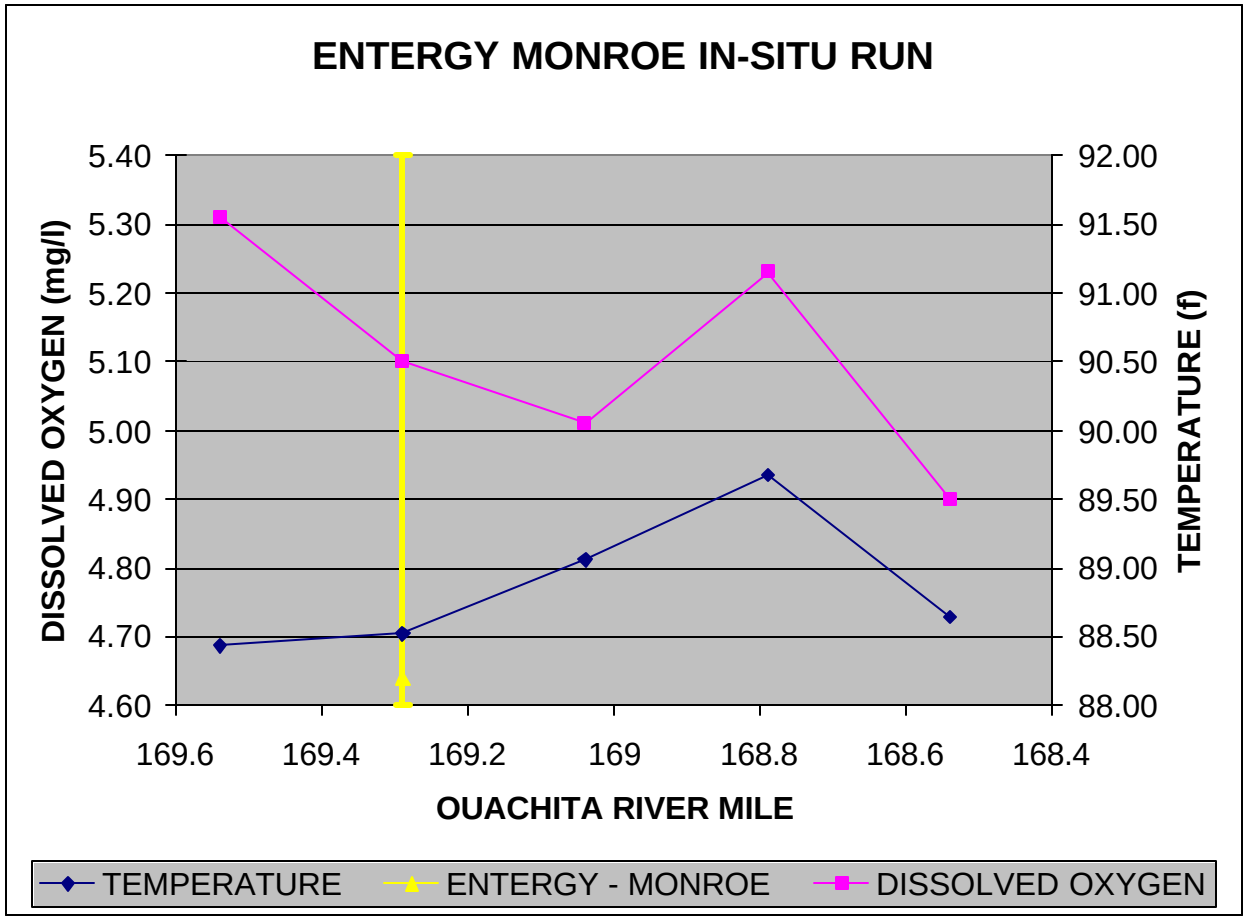
Entergy-Sterlington Generating Plant

Date	Location	ORM	Depth (m)	Temp (^{o}C)	Temp (^{o}F)	DO (mg/l)	Marker
7/18/2001	1/4 mile above outfall	192.71	1	31.14	88.05	5.84	
7/18/2001	Outfall	192.46	1	31.48	88.66	5.76	88.20
7/18/2001	1/4 mile below outfall	192.21	1	31.76	89.17	6.00	
7/18/2001	1/2 mile below outfall	191.96	1	31.40	88.52	6.00	
7/18/2001	3/4 mile below outfall	191.71	1	31.44	88.59	5.99	



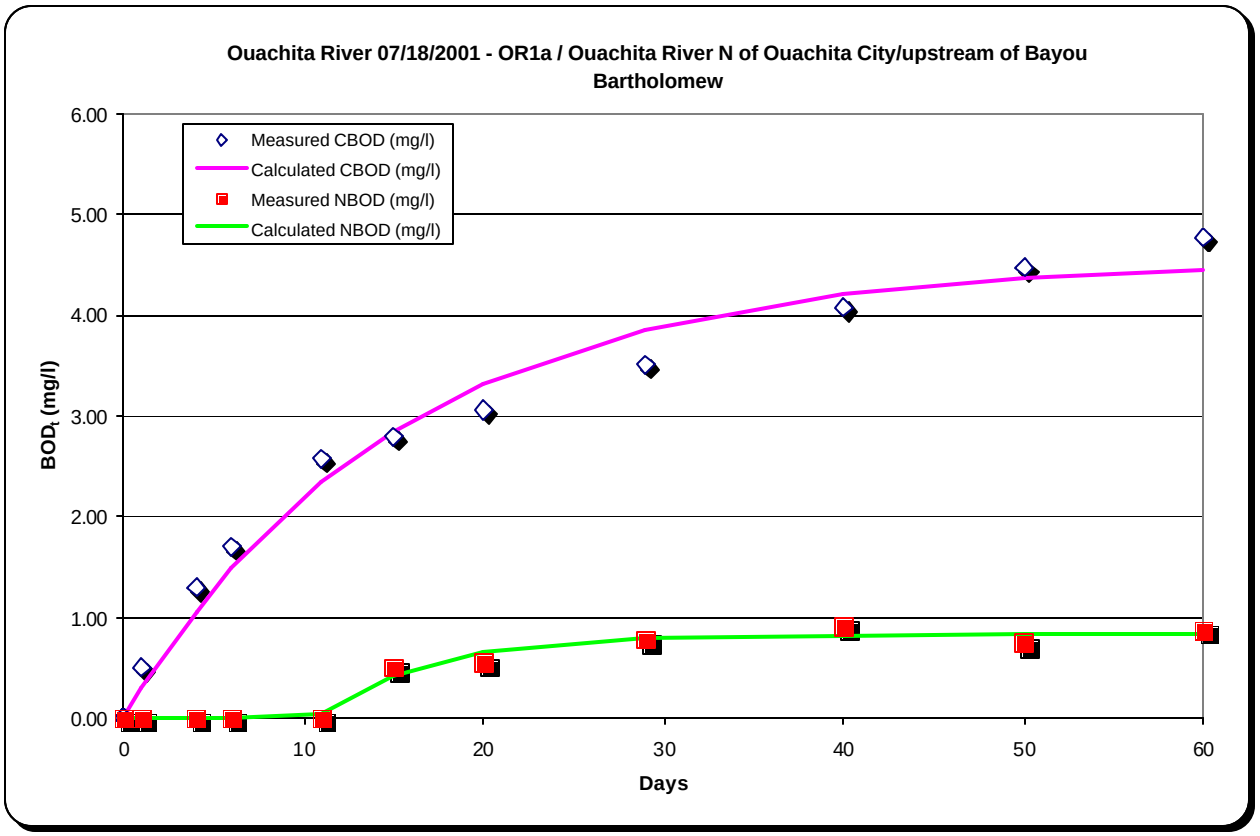
Entergy-Monroe Generating Plant

Date	Location	ORM	Depth (m)	Temp (°C)		DO (mg/l)	Marker
7/18/2001	1/4 mile above outfall	169.54	1	31.35	88.43	5.31	
7/18/2001	Outfall	169.29	1	31.40	88.52	5.10	88.20
7/18/2001	1/4 mile below outfall	169.04	1	31.70	89.06	5.01	
7/18/2001	1/2 mile below outfall	168.79	1	32.04	89.67	5.23	
7/18/2001	3/4 mile below outfall	168.54	1	31.47	88.65	4.90	



BOD Analysis of the for: **Ouachita River 07/18/2001 - OR1a / Ouachita River N of Ouachita City/upstream of Bayou Bartholomew**

Measured Data					Calculated Data	
Days	***Total BOD (mg/l)***	***NOx as N (mg/l)***	***NBOD (mg/l)***	***CBOD (mg/l)***	***NBOD (mg/l)***	***CBOD (mg/l)***
Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7
0		0.15				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	0.5	0.15	0.00	0.50	0.00	0.29
4	1.3	0.12	0.00	1.30	0.00	1.05
6	1.7	0.12	0.00	1.70	0.00	1.48
11	2.6	0.15	0.00	2.57	0.03	2.34
15	3.2	0.26	0.50	2.79	0.41	2.84
20	3.7	0.27	0.55	3.06	0.64	3.32
29	4.3	0.32	0.78	3.51	0.79	3.86
40	4.9	0.35	0.91	4.08	0.82	4.21
50	5.3	0.312	0.74	4.47	0.83	4.37
60	5.6	0.34	0.87	4.77	0.83	4.45
					0.83	4.54	**UBOD (mg/l)**
					0.16	0.07	**k rate (1/day)**
					10.79	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.

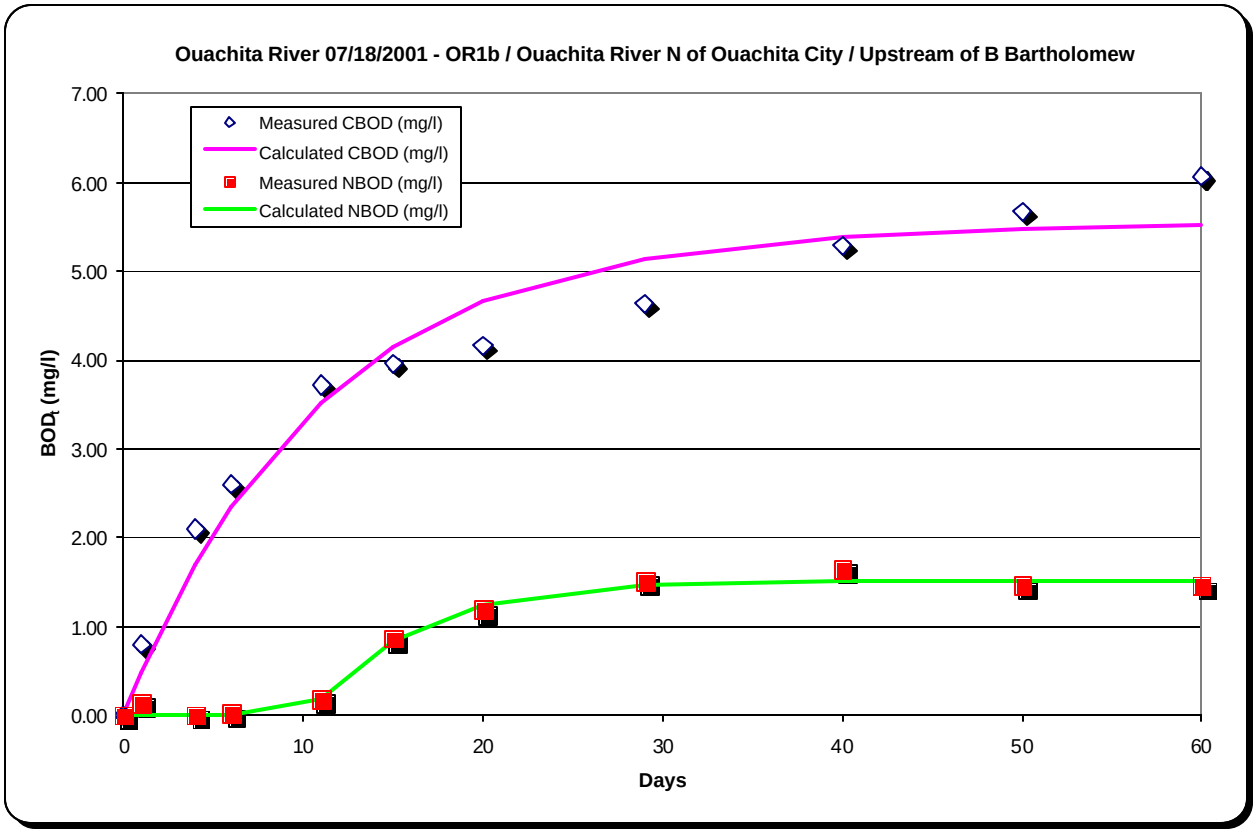
Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

BOD Analysis of the for: **Ouachita River 07/18/2001 - OR1b / Ouachita River N of Ouachita City / Upstream of B Bartholomew**

Measured Data					Calculated Data	
Days	*Total BOD (mg/l)*	*NOx as N (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*
Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7
0		0.12				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	0.80	0.15	0.14	0.80	0.00	0.49
4	2.10	0.12	0.01	2.10	0.00	1.70
6	2.60	0.12	0.02	2.60	0.00	2.35
11	3.90	0.16	0.18	3.72	0.18	3.52
15	4.80	0.31	0.87	3.95	0.85	4.14
20	5.40	0.38	1.19	4.16	1.24	4.66
29	6.10	0.45	1.51	4.64	1.46	5.15
40	6.80	0.48	1.65	5.28	1.52	5.39
50	7.20	0.44	1.46	5.68	1.52	5.48
60	7.60	0.44	1.46	6.07	1.53	5.51
					1.53	5.53	UBOD (mg/l)
					0.17	0.09	k rate (1/day)
					10.26	0.00	Lag time (days)



Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.

Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

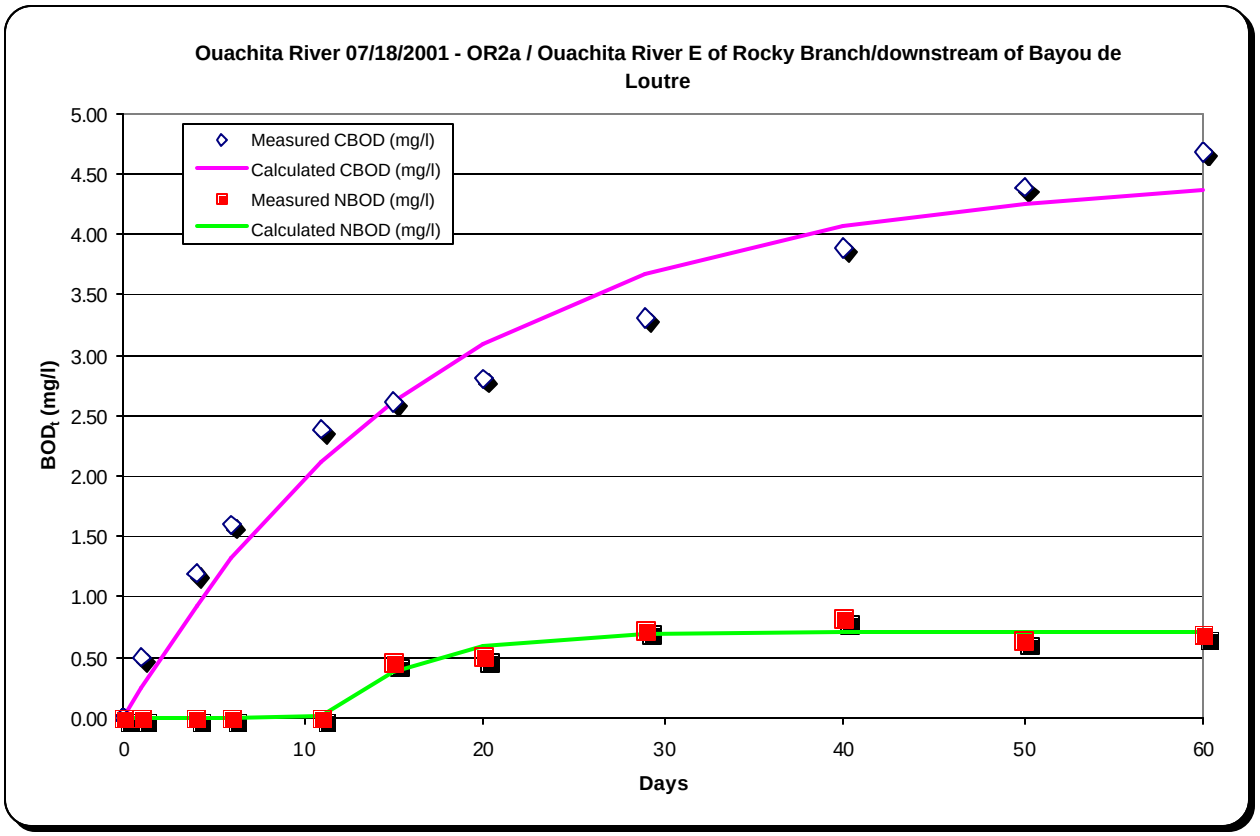
Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

Note 8 - Nox nondetects were input at 1/2 the detection level = 0.025 mg/l.

BOD Analysis of the for: **Ouachita River 07/18/2001 - OR2a / Ouachita River E of Rocky Branch/downstream of Bayou de Loutre**

Measured Data					Calculated Data	
Days	***Total BOD (mg/l)***	***NOx as N (mg/l)***	***NBOD (mg/l)***	***CBOD (mg/l)***	***NBOD (mg/l)***	***CBOD (mg/l)***
Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7
0		0.17				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	0.5	0.17	0.00	0.50	0.00	0.25
4	1.2	0.14	0.00	1.20	0.00	0.93
6	1.6	0.14	0.00	1.60	0.00	1.32
11	2.4	0.02	0.00	2.39	0.01	2.12
15	3.0	0.27	0.46	2.61	0.39	2.61
20	3.4	0.28	0.50	2.81	0.59	3.09
29	4.0	0.33	0.73	3.31	0.69	3.66
40	4.6	0.35	0.82	3.89	0.71	4.06
50	5.1	0.31	0.64	4.38	0.72	4.26
60	5.4	0.32	0.69	4.68	0.72	4.37
					0.72	4.51	**UBOD (mg/l)**
					0.19	0.06	**k rate (1/day)**
					10.89	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.

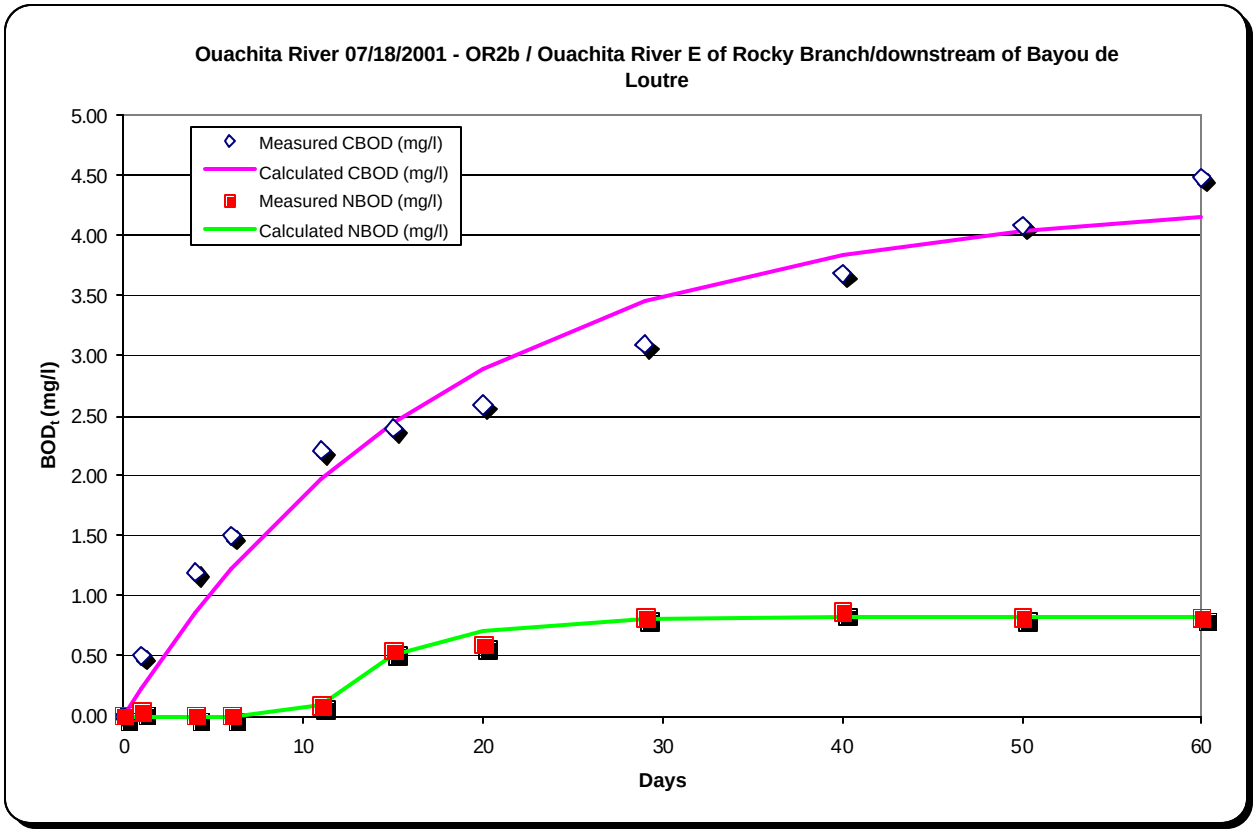
Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

BOD Analysis of the for: **Ouachita River 07/18/2001 - OR2b / Ouachita River E of Rocky Branch/downstream of Bayou de Loutre**

Measured Data					Calculated Data	
Days	*Total BOD (mg/l)*	*NOx as N (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*
Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7
0		0.16				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	0.50	0.17	0.05	0.50	0.00	0.23
4	1.20	0.13	0.00	1.20	0.00	0.86
6	1.50	0.13	0.00	1.50	0.00	1.22
11	2.30	0.18	0.09	2.21	0.09	1.97
15	2.90	0.28	0.55	2.39	0.51	2.43
20	3.30	0.29	0.59	2.59	0.71	2.89
29	3.90	0.34	0.82	3.10	0.80	3.45
40	4.50	0.35	0.87	3.68	0.82	3.84
50	4.90	0.34	0.82	4.08	0.82	4.04
60	5.30	0.34	0.82	4.48	0.82	4.16
					0.82	4.31	**UBOD (mg/l)**
					0.21	0.06	**k rate (1/day)**
					10.45	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.

Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

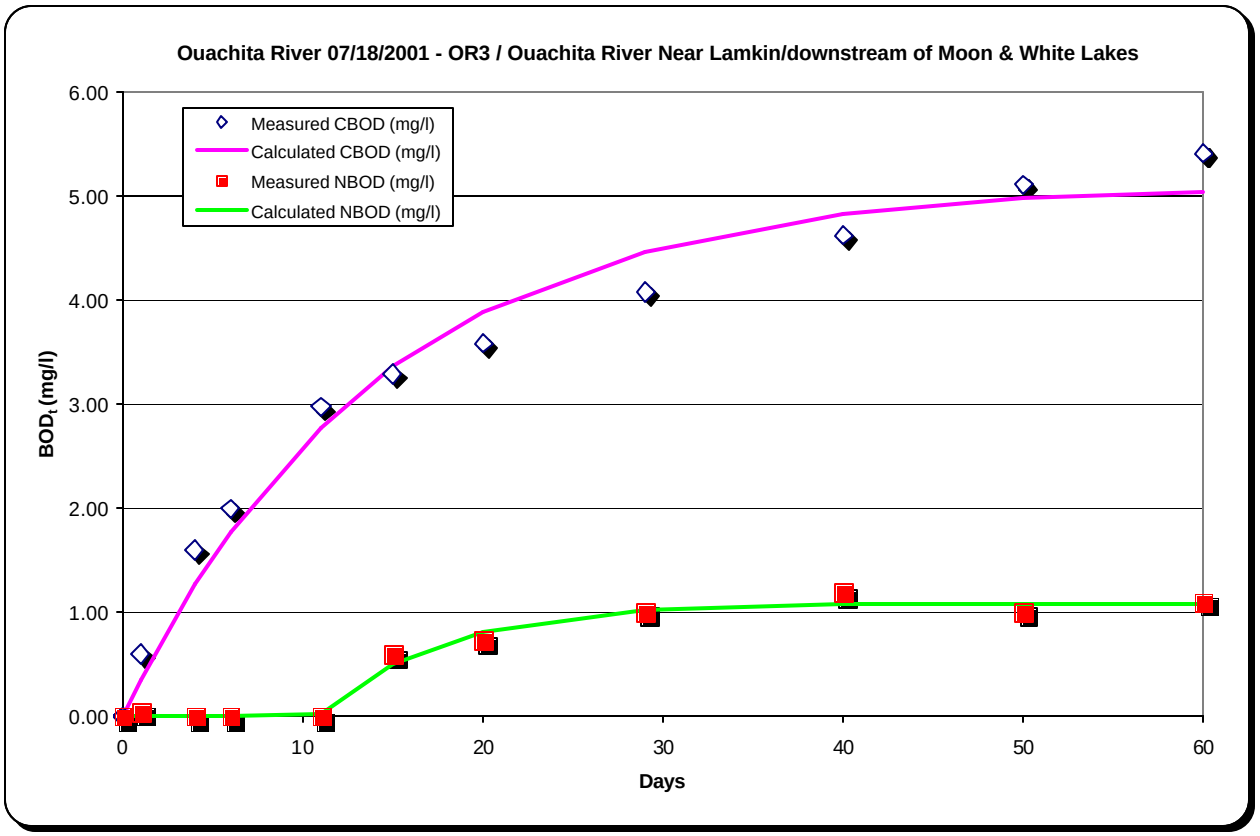
Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

Note 8 - Nox nondetects were input at 1/2 the detection level = 0.025 mg/l.

BOD Analysis of the for: **Ouachita River 07/18/2001 - OR3 / Ouachita River Near Lamkin/downstream of Moon & White Lakes**

Measured Data					Calculated Data	
Days	*Total BOD (mg/l)*	*NOx as N (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*
Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7
0		0.18				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	0.6	0.19	0.05	0.60	0.00	0.35
4	1.6	0.15	0.00	1.60	0.00	1.27
6	2.0	0.15	0.00	2.00	0.00	1.78
11	3.0	0.18	0.00	2.97	0.03	2.79
15	3.8	0.31	0.59	3.29	0.51	3.37
20	4.4	0.34	0.73	3.58	0.82	3.89
29	5.1	0.40	1.01	4.08	1.02	4.47
40	5.7	0.44	1.19	4.63	1.07	4.82
50	6.2	0.40	1.01	5.11	1.09	4.97
60	6.5	0.42	1.10	5.41	1.09	5.05
					1.09	5.12	**UBOD (mg/l)**
					0.15	0.07	**k rate (1/day)**
					10.84	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.

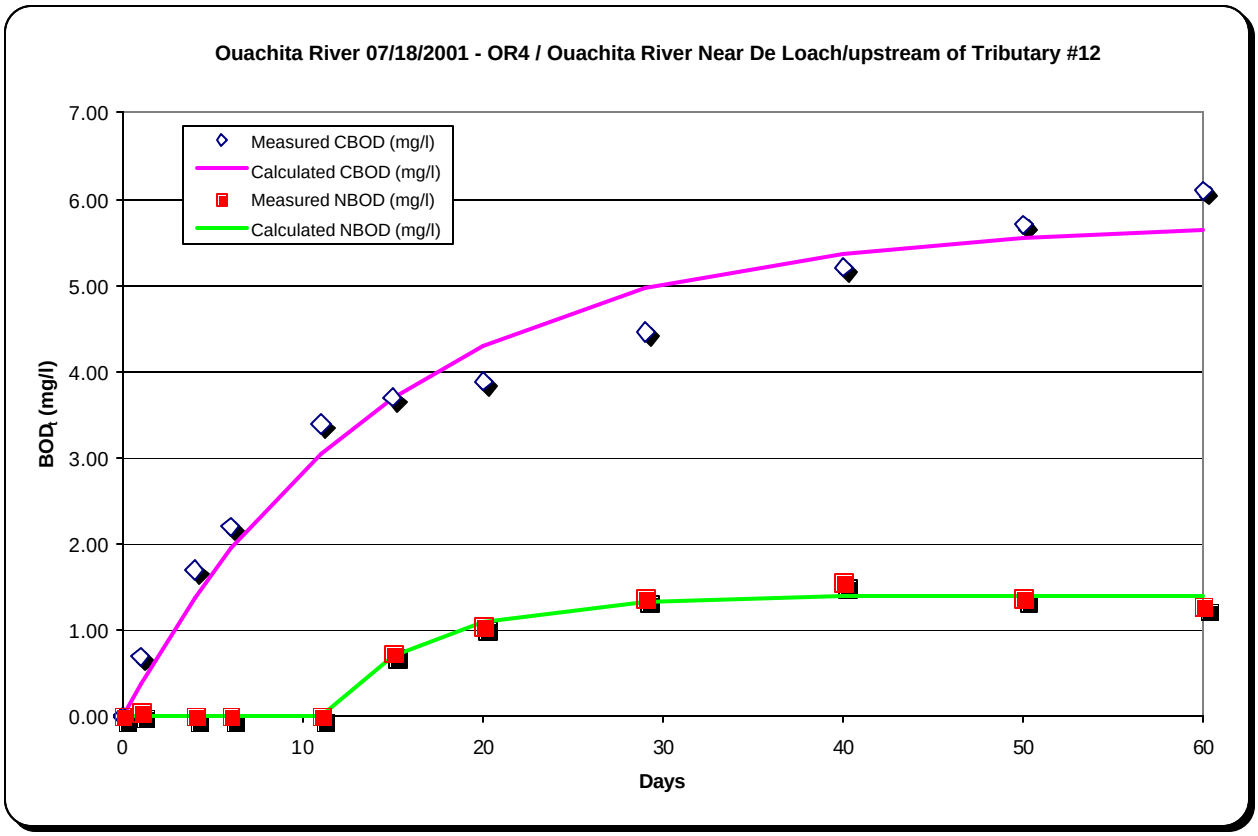
Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

BOD Analysis of the for: **Ouachita River 07/18/2001 - OR4 / Ouachita River Near De Loach/upstream of Tributary #12**

Measured Data					Calculated Data	
Days	***Total BOD (mg/l)***	***NOx as N (mg/l)***	***NBOD (mg/l)***	***CBOD (mg/l)***	***NBOD (mg/l)***	***CBOD (mg/l)***
Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7
0		0.20				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	0.7	0.21	0.05	0.70	0.00	0.38
4	1.7	0.16	0.00	1.70	0.00	1.39
6	2.2	0.16	0.00	2.20	0.00	1.95
11	3.4	0.20	0.00	3.40	0.00	3.05
15	4.4	0.36	0.73	3.70	0.70	3.70
20	5.0	0.43	1.05	3.89	1.11	4.29
29	5.8	0.50	1.37	4.46	1.34	4.96
40	6.6	0.54	1.55	5.21	1.39	5.37
50	7.1	0.50	1.37	5.70	1.40	5.55
60	7.5	0.48	1.28	6.10	1.40	5.64
					1.40	5.73	**UBOD (mg/l)**
					0.17	0.07	**k rate (1/day)**
					10.99	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.

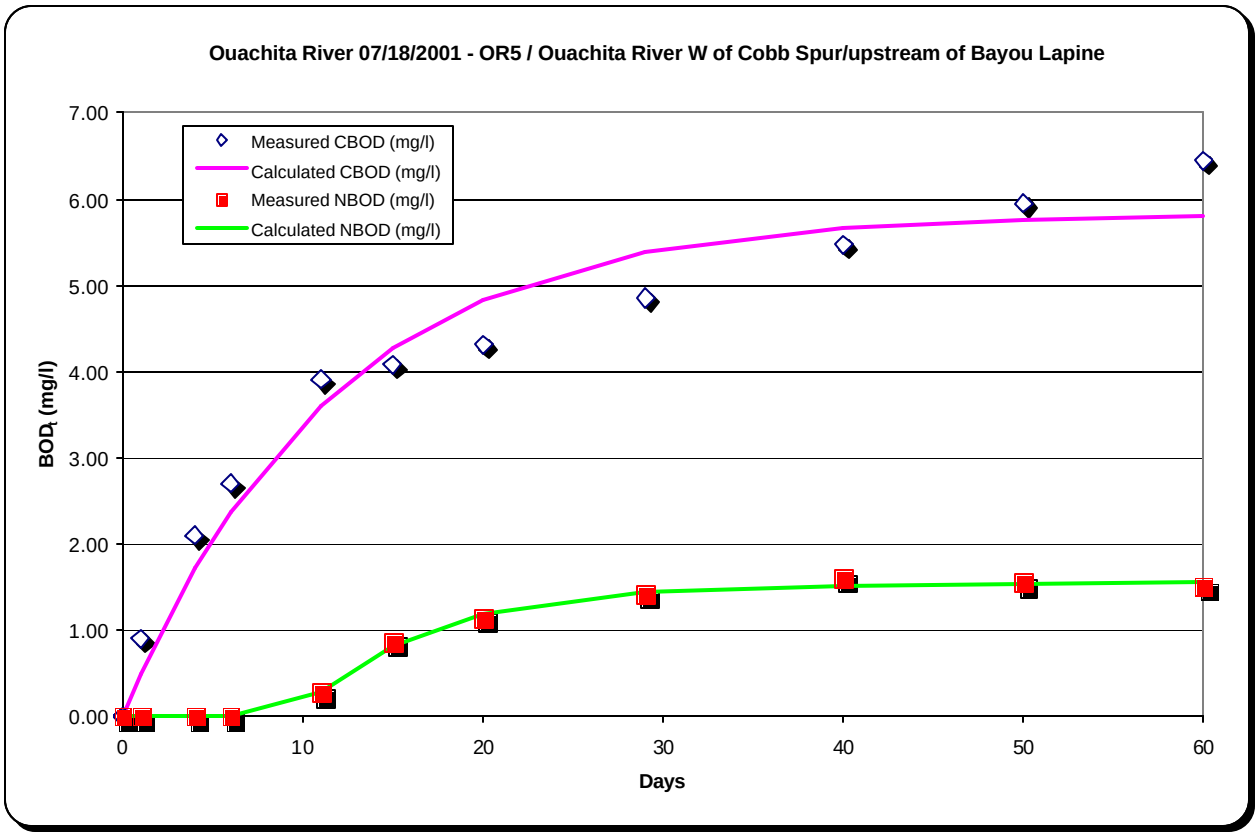
Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

BOD Analysis of the for: **Ouachita River 07/18/2001 - OR5 / Ouachita River W of Cobb Spur/upstream of Bayou Lapine**

Measured Data					Calculated Data	
Days	***Total BOD (mg/l)***	***NOx as N (mg/l)***	***NBOD (mg/l)***	***CBOD (mg/l)***	***NBOD (mg/l)***	***CBOD (mg/l)***
Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7
0		0.21				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	0.9	0.20	0.00	0.90	0.00	0.49
4	2.1	0.17	0.00	2.10	0.00	1.72
6	2.7	0.17	0.00	2.70	0.00	2.38
11	4.2	0.27	0.27	3.91	0.29	3.61
15	4.9	0.40	0.87	4.08	0.82	4.27
20	5.5	0.46	1.14	4.32	1.18	4.82
29	6.3	0.52	1.42	4.86	1.44	5.38
40	7.0	0.56	1.60	5.47	1.53	5.66
50	7.5	0.55	1.55	5.95	1.55	5.76
60	8.0	0.54	1.51	6.45	1.55	5.81
					1.55	5.84	**UBOD (mg/l)**
					0.14	0.09	**k rate (1/day)**
					9.50	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.

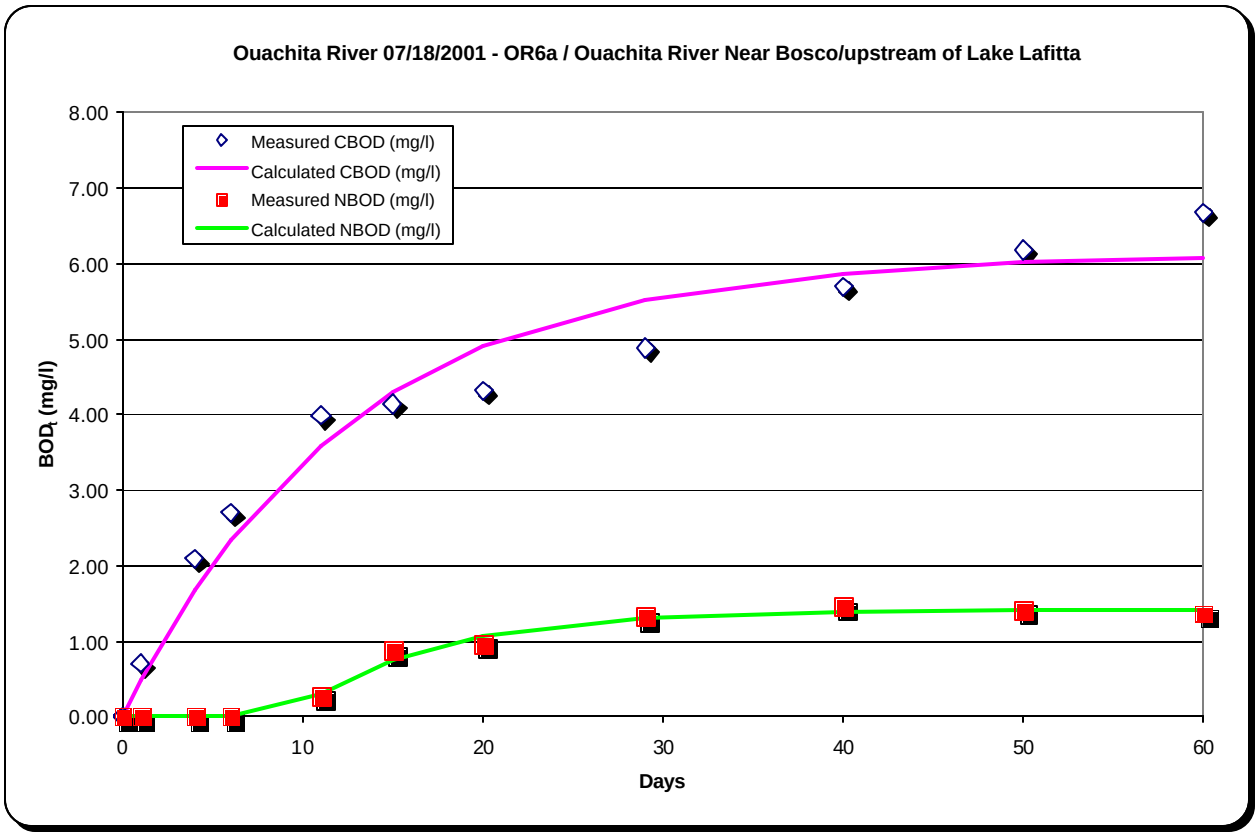
Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

BOD Analysis of the for: **Ouachita River 07/18/2001 - OR6a / Ouachita River Near Bosco/upstream of Lake Lafitta**

Measured Data					Calculated Data	
Days	*Total BOD (mg/l)*	*NOx as N (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*
Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7
0		0.25				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	0.7	0.25	0.00	0.70	0.00	0.47
4	2.1	0.20	0.00	2.10	0.00	1.69
6	2.7	0.21	0.00	2.70	0.00	2.35
11	4.3	0.31	0.27	3.99	0.31	3.60
15	4.9	0.44	0.87	4.14	0.76	4.30
20	5.4	0.46	0.96	4.33	1.07	4.90
29	6.2	0.54	1.33	4.89	1.31	5.53
40	7.1	0.57	1.46	5.70	1.40	5.88
50	7.6	0.56	1.42	6.18	1.42	6.01
60	8.1	0.55	1.37	6.68	1.42	6.07
					1.42	6.12	**UBOD (mg/l)**
					0.13	0.08	**k rate (1/day)**
					9.09	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.

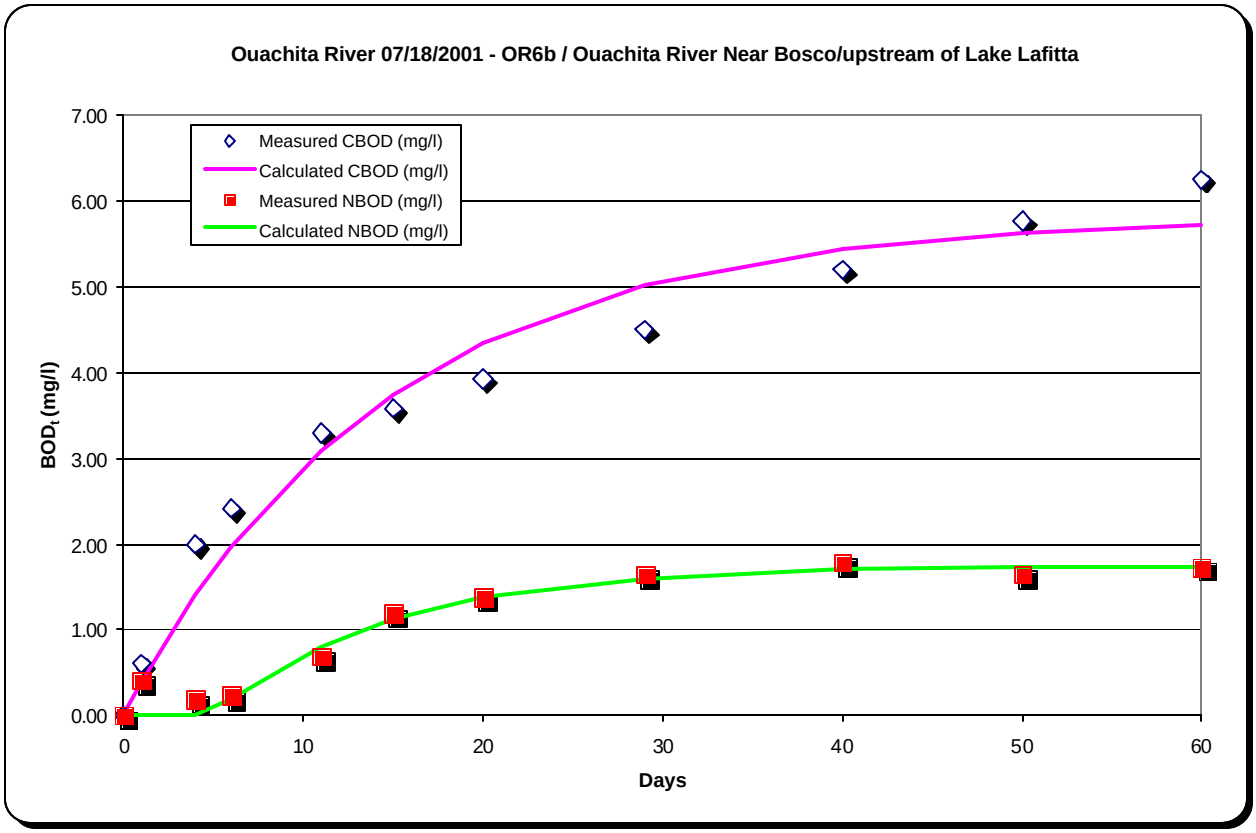
Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

BOD Analysis of the for: **Ouachita River 07/18/2001 - OR6b / Ouachita River Near Bosco/upstream of Lake Lafitta**

Measured Data					Calculated Data	
Days	***Total BOD (mg/l)***	***NOx as N (mg/l)***	***NBOD (mg/l)***	***CBOD (mg/l)***	***NBOD (mg/l)***	***CBOD (mg/l)***
Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7
0		0.16				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	0.60	0.25	0.41	0.60	0.00	0.39
4	2.00	0.20	0.18	2.00	0.00	1.40
6	2.60	0.21	0.23	2.42	0.18	1.97
11	4.10	0.31	0.69	3.29	0.81	3.09
15	4.70	0.42	1.19	3.58	1.12	3.75
20	5.30	0.46	1.37	3.93	1.37	4.35
29	6.10	0.52	1.65	4.50	1.60	5.02
40	6.90	0.55	1.78	5.20	1.70	5.44
50	7.50	0.52	1.65	5.77	1.73	5.62
60	8.00	0.54	1.74	6.25	1.75	5.71
					1.75	5.81	**UBOD (mg/l)**
					0.10	0.07	**k rate (1/day)**
					4.91	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.

Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

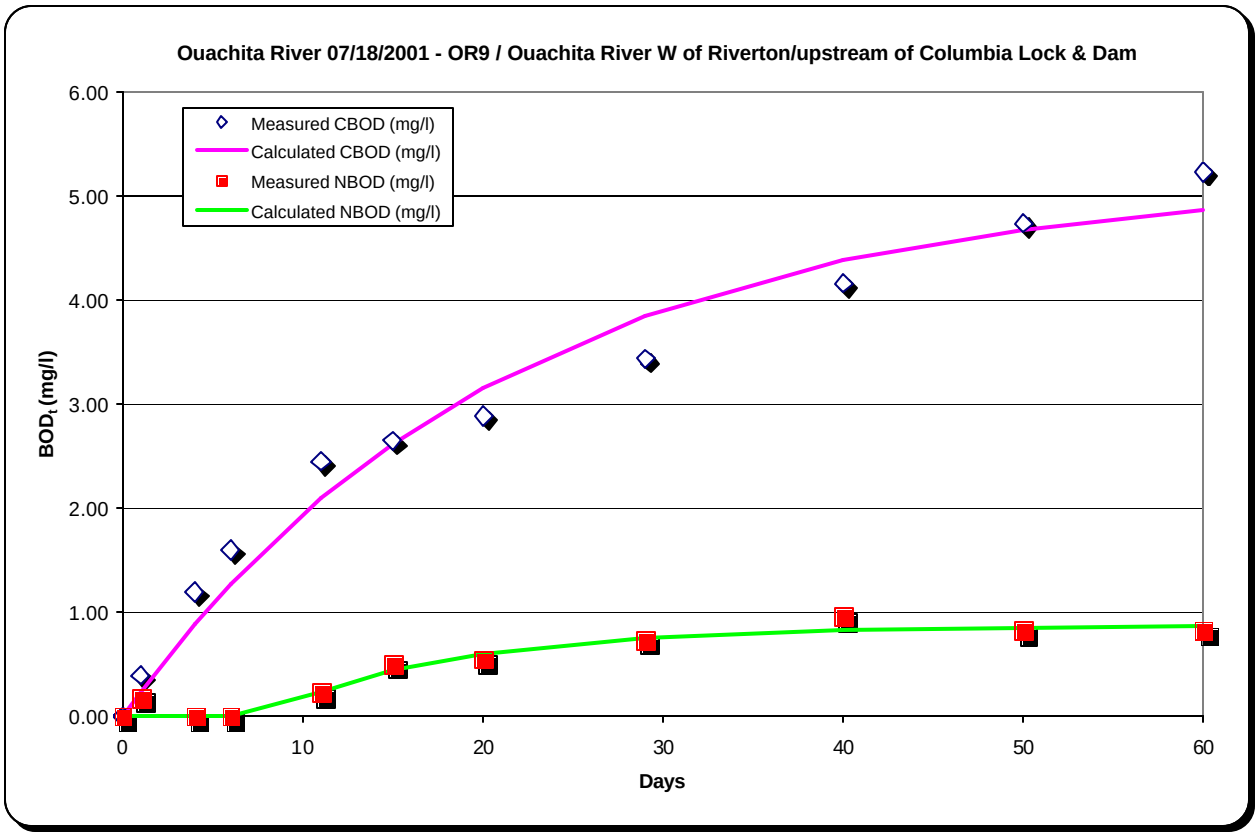
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

Note 8 - Nox nondetects were input at 1/2 the detection level = 0.025 mg/l.

BOD Analysis of the for: **Ouachita River 07/18/2001 - OR9 / Ouachita River W of Riverton/upstream of Columbia Lock & Dam**

Measured Data					Calculated Data	
Days	***Total BOD (mg/l)***	***NOx as N (mg/l)***	***NBOD (mg/l)***	***CBOD (mg/l)***	***NBOD (mg/l)***	***CBOD (mg/l)***
Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7
0		0.49				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	0.4	0.53	0.18	0.40	0.00	0.24
4	1.2	0.39	0.00	1.20	0.00	0.89
6	1.6	0.43	0.00	1.60	0.00	1.28
11	2.7	0.54	0.23	2.46	0.24	2.10
15	3.1	0.60	0.50	2.66	0.44	2.63
20	3.5	0.61	0.55	2.89	0.61	3.16
29	4.2	0.65	0.73	3.44	0.76	3.85
40	5.0	0.70	0.96	4.17	0.83	4.38
50	5.6	0.67	0.82	4.74	0.86	4.68
60	6.1	0.67	0.82	5.23	0.87	4.86

0.87	5.16	**UBOD (mg/l)**
0.10	0.05	**k rate (1/day)**
7.63	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.

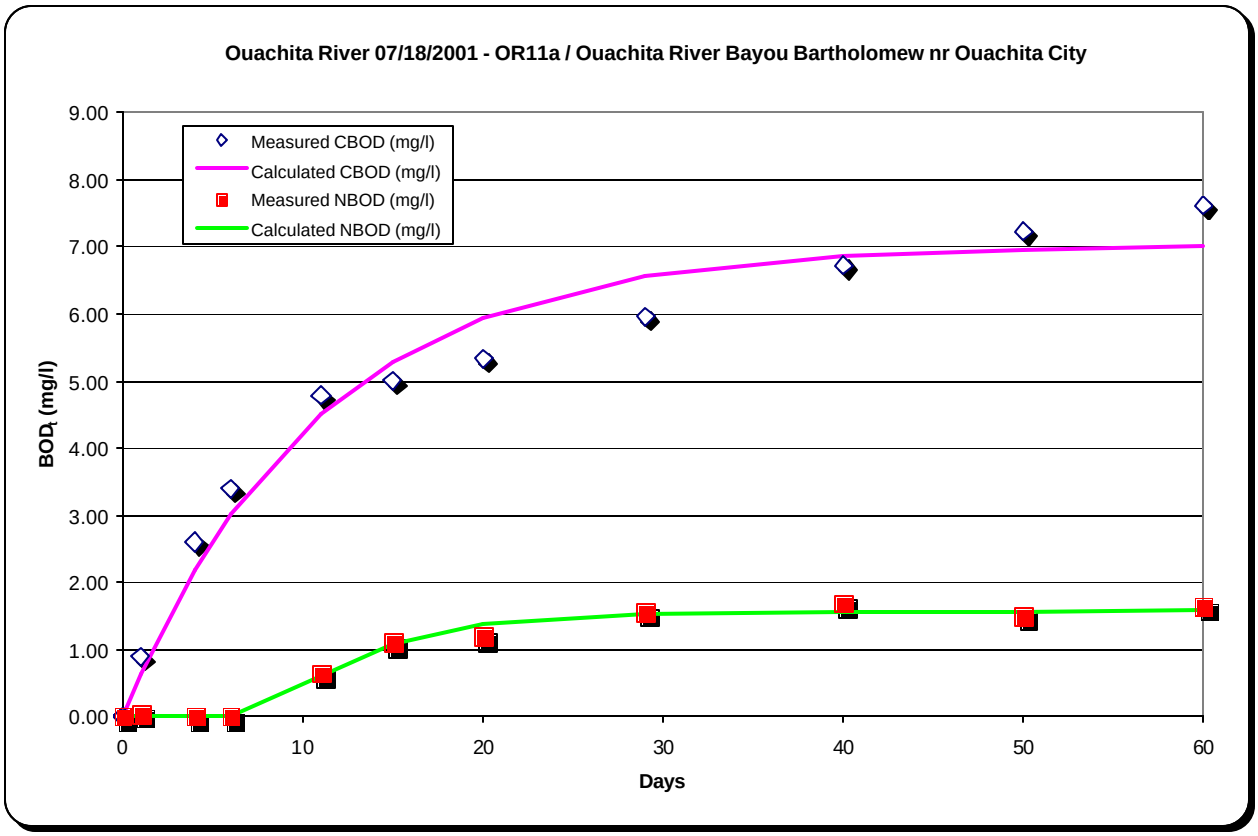
Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

BOD Analysis of the for: **Ouachita River 07/18/2001 - OR11a / Ouachita River Bayou Bartholomew nr Ouachita City**

Measured Data					Calculated Data	
Days	*Total BOD (mg/l)*	*NOx as N (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*
Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7
0		0.09				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	0.9	0.10	0.05	0.90	0.00	0.63
4	2.6	0.07	0.00	2.60	0.00	2.19
6	3.4	0.09	0.00	3.40	0.00	3.01
11	5.4	0.23	0.64	4.79	0.61	4.51
15	6.1	0.33	1.10	5.01	1.09	5.30
20	6.7	0.35	1.19	5.33	1.37	5.94
29	7.5	0.43	1.55	5.97	1.53	6.56
40	8.3	0.46	1.69	6.73	1.57	6.87
50	8.8	0.42	1.51	7.23	1.57	6.97
60	9.2	0.45	1.65	7.63	1.57	7.01
					1.57	7.03	**UBOD (mg/l)**
					0.17	0.09	**k rate (1/day)**
					8.12	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.

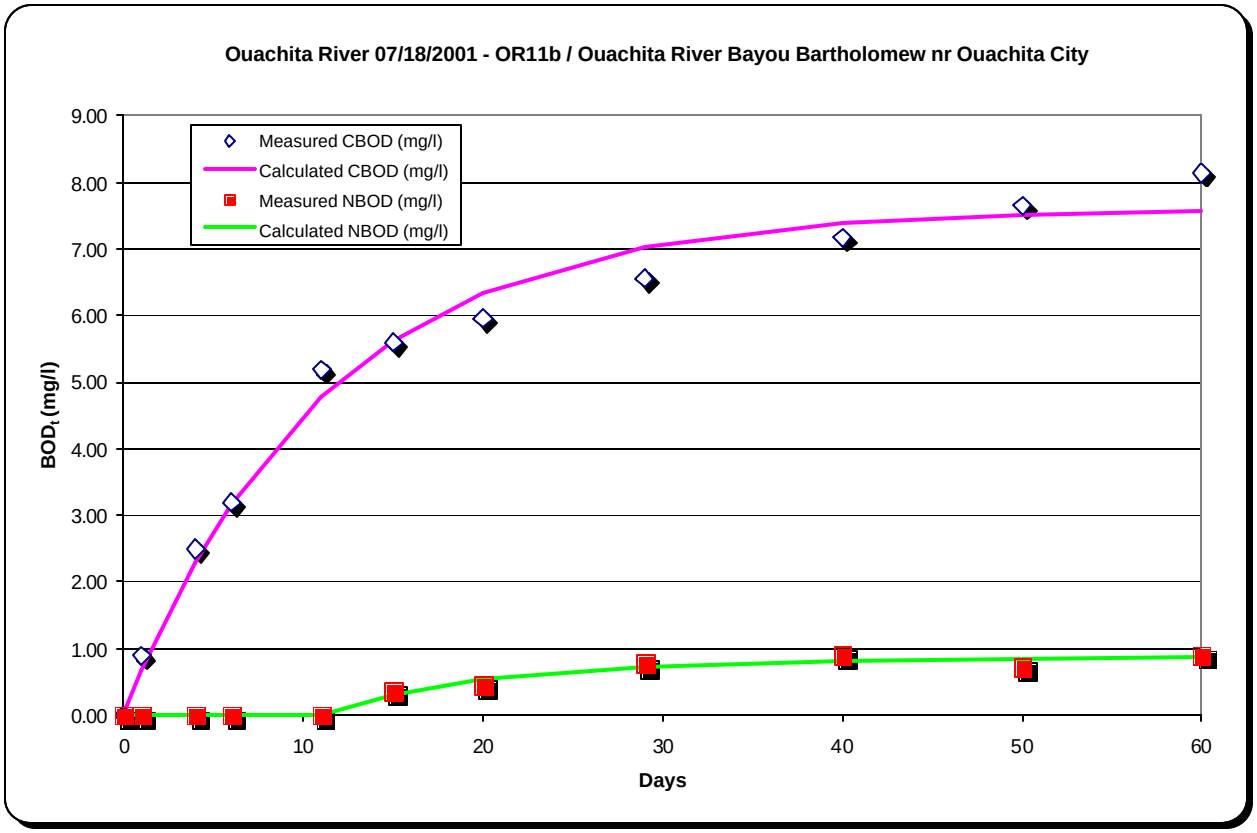
Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

BOD Analysis of the for: **Ouachita River 07/18/2001 - OR11b / Ouachita River Bayou Bartholomew nr Ouachita City**

Measured Data					Calculated Data	
Days	*Total BOD (mg/l)*	*NOx as N (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*
Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7
0		0.24				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	0.90	0.09	0.00	0.90	0.00	0.65
4	2.50	0.07	0.00	2.50	0.00	2.29
6	3.20	0.07	0.00	3.20	0.00	3.16
11	5.20	0.22	0.00	5.19	0.01	4.77
15	5.90	0.32	0.37	5.59	0.31	5.62
20	6.50	0.34	0.46	5.96	0.54	6.34
29	7.30	0.41	0.78	6.56	0.74	7.04
40	8.00	0.44	0.91	7.17	0.83	7.39
50	8.50	0.40	0.73	7.64	0.86	7.51
60	9.00	0.44	0.91	8.14	0.86	7.56
					0.87	7.60	**UBOD (mg/l)**
					0.11	0.09	**k rate (1/day)**
					10.84	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.

Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

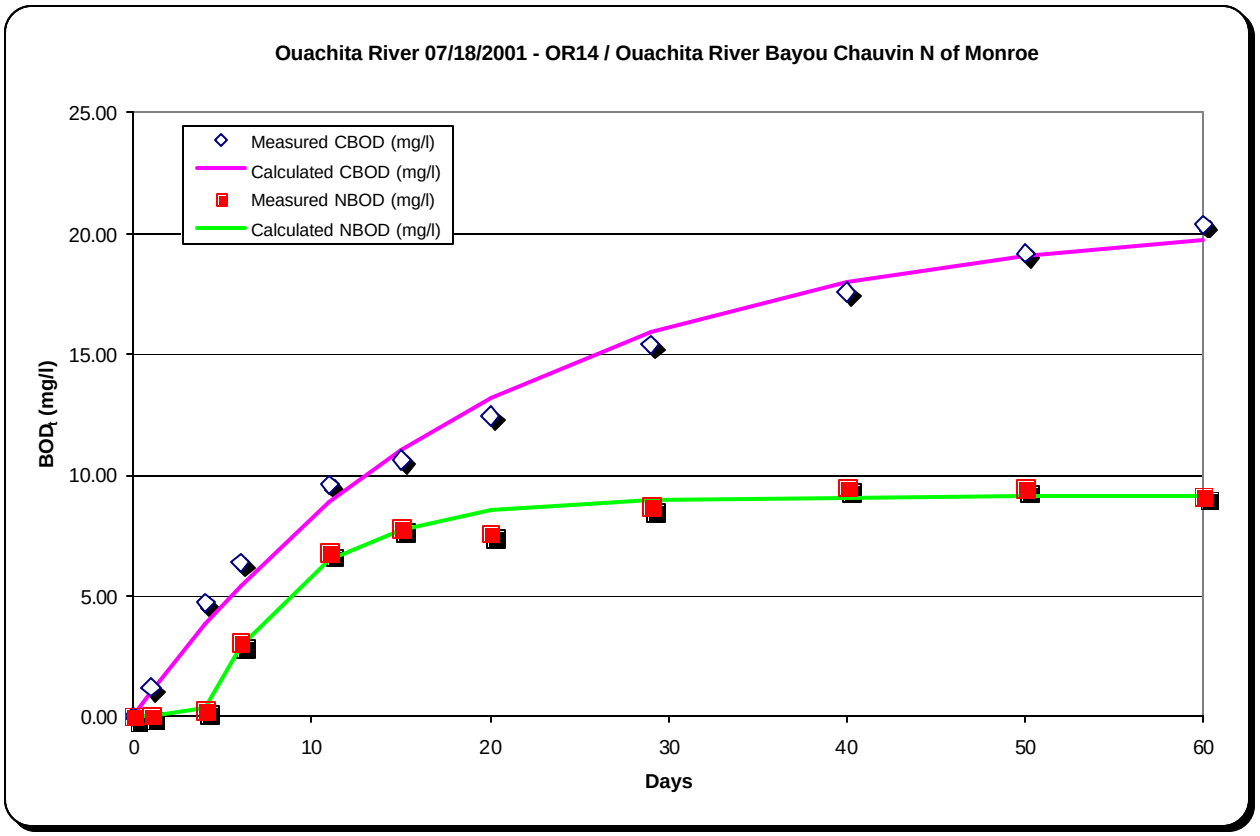
Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

Note 8 - Nox nondetects were input at 1/2 the detection level = 0.025 mg/l.

BOD Analysis of the for: **Ouachita River 07/18/2001 - OR14 / Ouachita River Bayou Chauvin N of Monroe**

Measured Data					Calculated Data	
Days	***Total BOD (mg/l)***	***NOx as N (mg/l)***	***NBOD (mg/l)***	***CBOD (mg/l)***	***NBOD (mg/l)***	***CBOD (mg/l)***
Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7
0		0.22				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	1.2	0.23	0.05	1.20	0.00	1.03
4	5.1	0.28	0.27	4.71	0.39	3.82
6	9.3	0.886	3.04	6.39	2.91	5.45
11	16.1	1.71	6.81	9.64	6.46	8.88
15	18.4	1.93	7.81	10.63	7.77	11.05
20	21.0	1.88	7.59	12.46	8.54	13.22
29	24.4	2.12	8.68	15.41	8.99	15.96
40	26.7	2.30	9.51	17.60	9.10	17.98
50	28.3	2.29	9.46	19.18	9.12	19.06
60	29.5	2.22	9.14	20.38	9.12	19.70
					9.12	20.67	**UBOD (mg/l)**
					0.17	0.05	**k rate (1/day)**
					3.74	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.

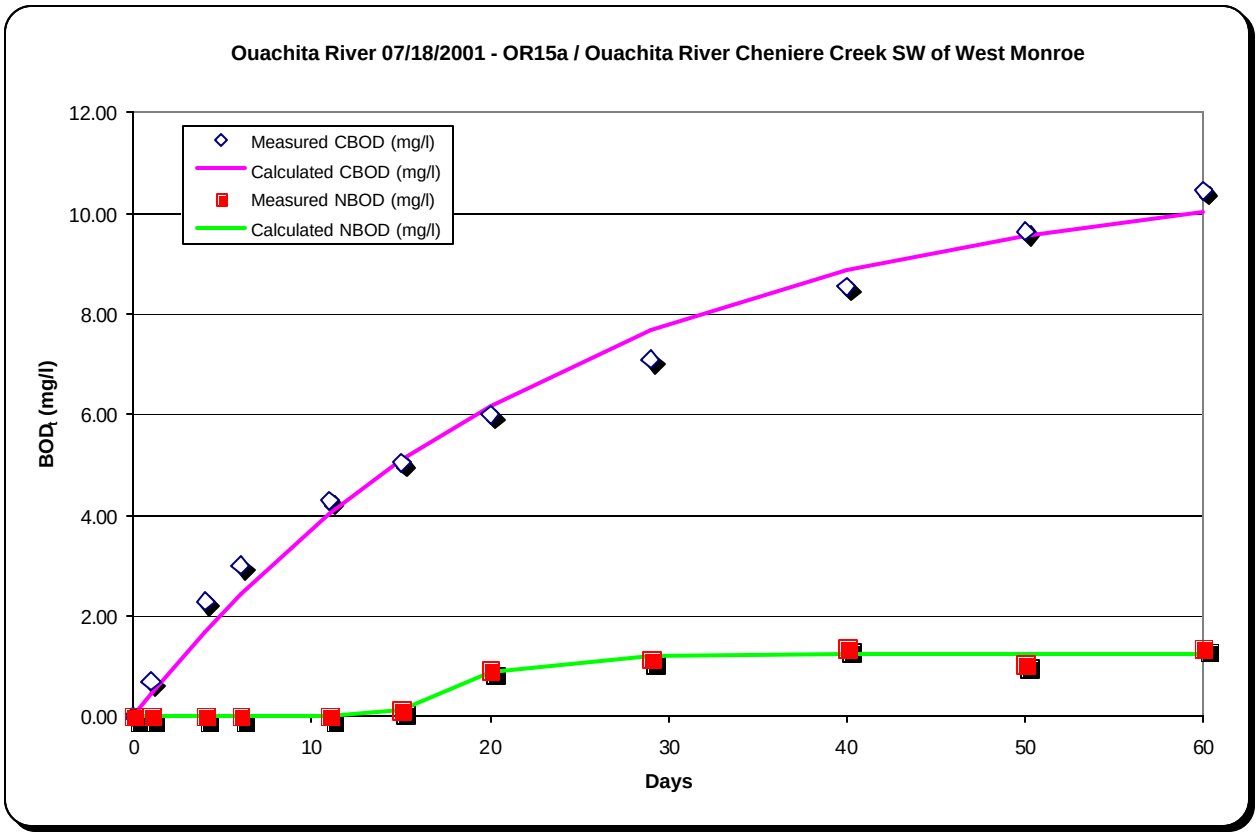
Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

BOD Analysis of the for: **Ouachita River 07/18/2001 - OR15a / Ouachita River Cheniere Creek SW of West Monroe**

Measured Data					Calculated Data	
Days	*Total BOD (mg/l)*	*NOx as N (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*
Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7
0		0.02				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	0.7	0.02	0.00	0.70	0.00	0.45
4	2.3	0.02	0.00	2.30	0.00	1.69
6	3.0	0.02	0.00	3.00	0.00	2.43
11	4.3	0.02	0.00	4.30	0.00	4.04
15	5.2	0.05	0.14	5.06	0.14	5.10
20	6.9	0.22	0.91	6.00	0.90	6.20
29	8.3	0.27	1.14	7.10	1.20	7.68
40	9.8	0.32	1.37	8.55	1.25	8.87
50	10.9	0.25	1.05	9.65	1.25	9.57
60	11.7	0.32	1.37	10.45	1.25	10.03
					1.25	10.90	**UBOD (mg/l)**
					0.23	0.04	**k rate (1/day)**
					14.49	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.

Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

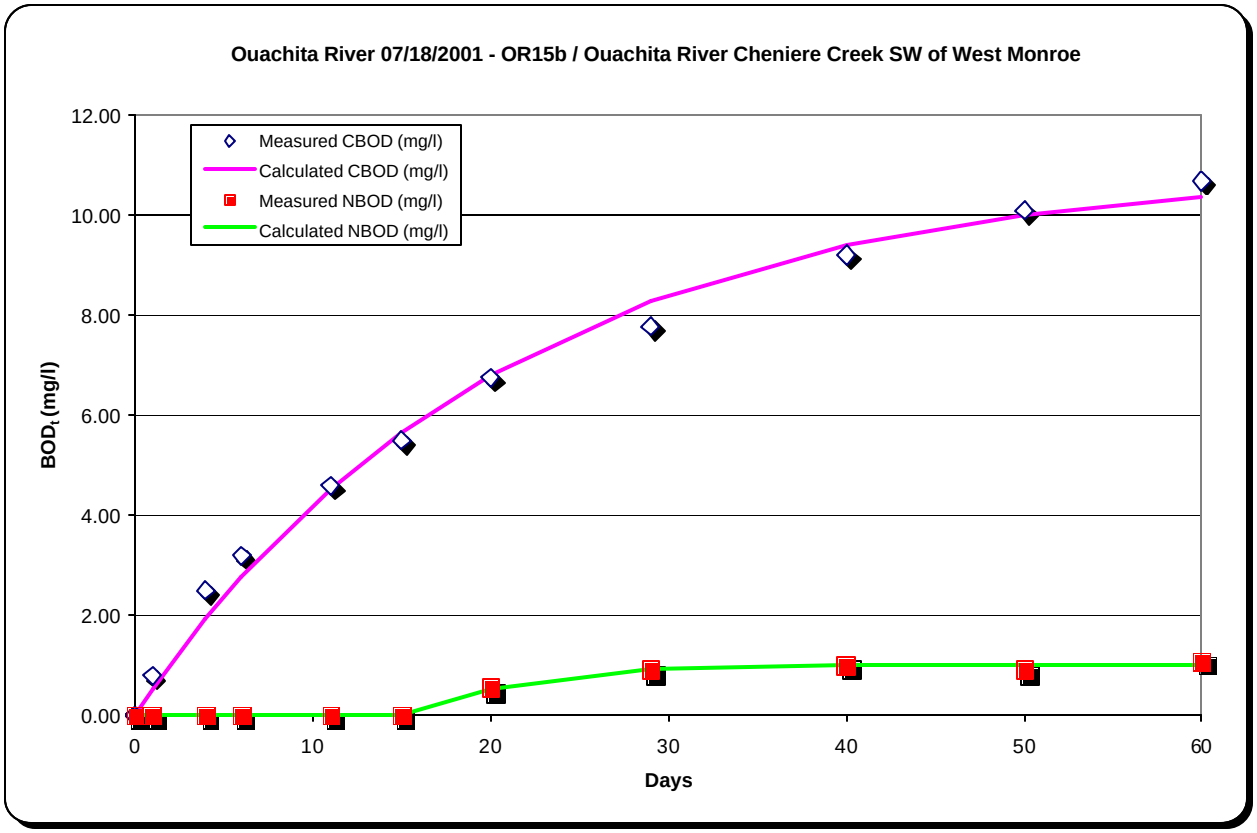
Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

BOD Analysis of the for: **Ouachita River 07/18/2001 - OR15b / Ouachita River Cheniere Creek SW of West Monroe**

Measured Data					Calculated Data	
Days	*Total BOD (mg/l)*	*NOx as N (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*
Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7
0		0.09				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	0.80	0.03	0.00	0.80	0.00	0.52
4	2.50	0.03	0.00	2.50	0.00	1.93
6	3.20	0.03	0.00	3.20	0.00	2.76
11	4.60	0.03	0.00	4.60	0.00	4.53
15	5.50	0.03	0.00	5.50	0.00	5.66
20	7.30	0.21	0.55	6.75	0.55	6.80
29	8.70	0.29	0.91	7.78	0.92	8.27
40	10.20	0.31	1.01	9.20	1.00	9.39
50	11.10	0.29	0.91	10.09	1.01	10.00
60	11.70	0.33	1.10	10.69	1.01	10.37

1.01	10.97	**UBOD (mg/l)**
0.18	0.05	**k rate (1/day)**
15.60	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.

Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

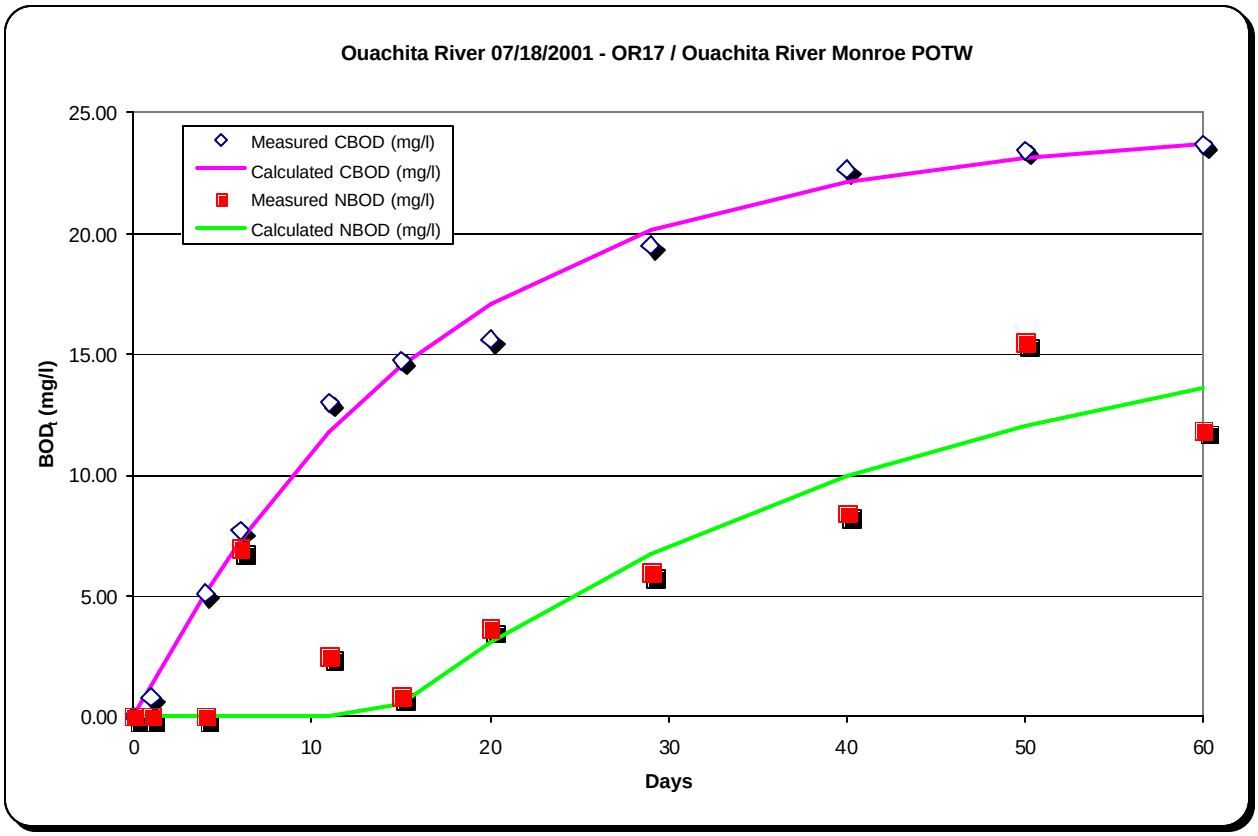
Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

Note 8 - Nox nondetects were input at 1/2 the detection level = 0.025 mg/l.

BOD Analysis of the for: **Ouachita River 07/18/2001 - OR17 / Ouachita River Monroe POTW**

Measured Data					Calculated Data	
Days	***Total BOD (mg/l)***	***NOx as N (mg/l)***	***NBOD (mg/l)***	***CBOD (mg/l)***	***NBOD (mg/l)***	***CBOD (mg/l)***
Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7
0		5.77				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	0.8	5.41	0.00	0.80	0.00	1.27
4	5.1	4.23	0.00	5.10	0.00	5.12
6	7.7	7.29	6.95	7.70	0.00	7.33
11	13.0	6.32	2.51	13.00	0.00	11.79
15	15.3	5.95	0.82	14.75	0.55	14.50
20	18.7	6.57	3.66	15.64	3.06	17.08
29	26.2	7.07	5.94	19.50	6.70	20.14
40	32.6	7.61	8.41	22.66	9.94	22.19
50	35.5	9.16	15.49	23.44	12.06	23.16
60	37.30	8.37	11.88	23.70	13.60	23.69
					17.77	24.33	**UBOD (mg/l)**
					0.03	0.06	**k rate (1/day)**
					14.00	0.12	**Lag time (days)**



Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.

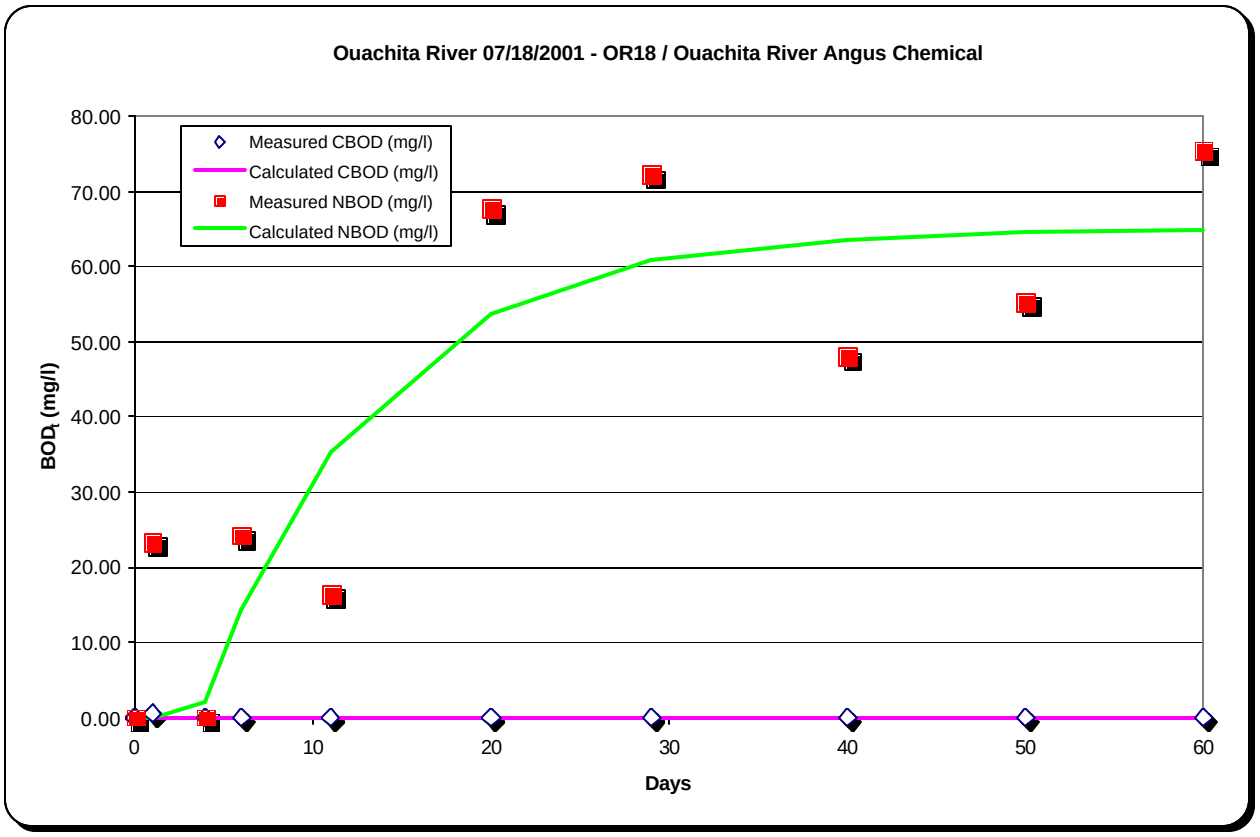
Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

BOD Analysis of the for: **Ouachita River 07/18/2001 - OR18 / Ouachita River Angus Chemical**

Measured Data					Calculated Data	
Days	***Total BOD (mg/l)***	***NOx as N (mg/l)***	***NBOD (mg/l)***	***CBOD (mg/l)***	***NBOD (mg/l)***	***CBOD (mg/l)***
Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7
0		21.6				
0	0.00	0.00			0.00	
0	0.00	0.00			0.00	
0	0.00	0.00			0.00	
0	0.00	0.00			0.00	
0	0.00	0.00			0.00	
1	0.5	26.7	23.31	0.50	0.00	
4	1.5	21.2	0.00	0.00	2.00	
6	2.7	26.9	24.22	0.00	14.24	
11	7.6	25.2	16.45	0.00	35.42	
20	17.5	36.4	67.64	0.00	53.79	
29	25.5	37.4	72.21	0.00	60.73	
40	33.4	32.1	47.99	0.00	63.67	
50	41.1	33.7	55.30	0.00	64.52	
60	46.6	38.1	75.41	0.00	64.80	
					64.95	0.00	**UBOD (mg/l)**
					0.11	0.00	**k rate (1/day)**
					3.71	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.

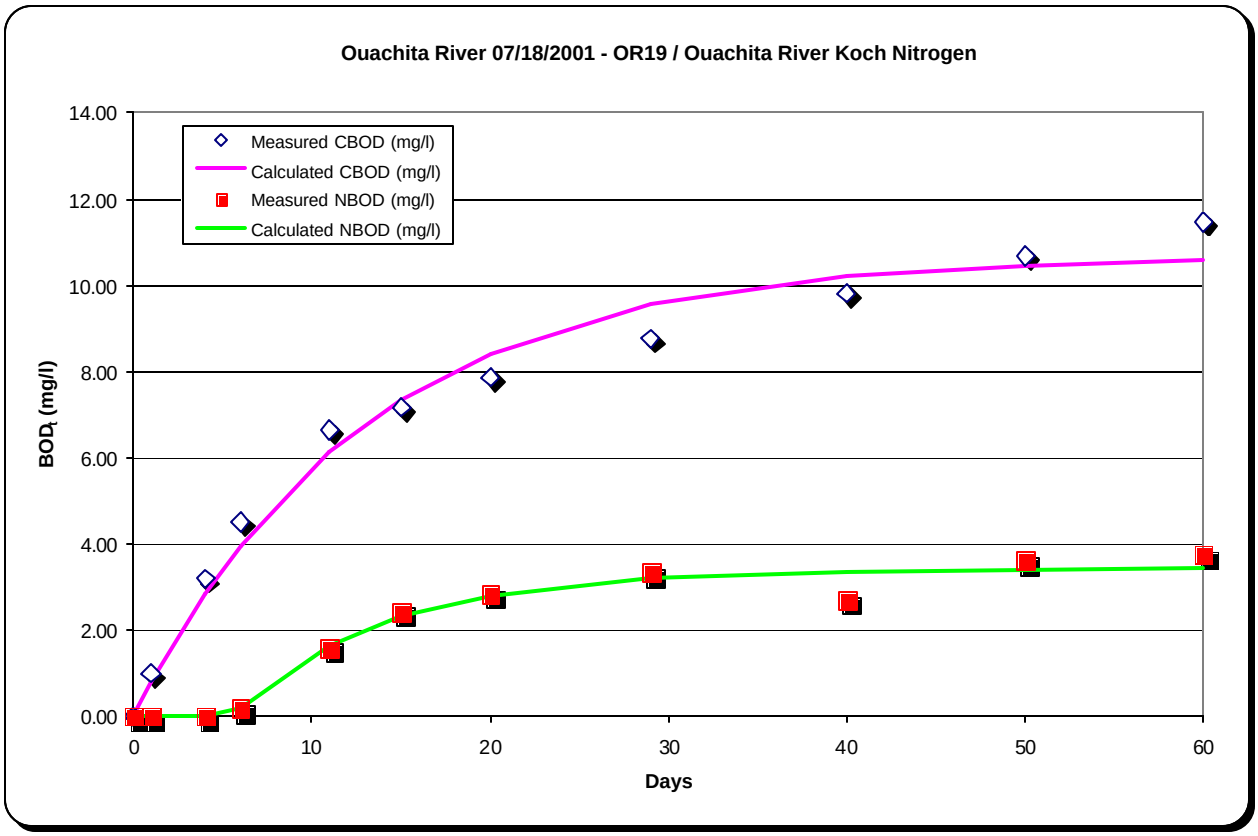
Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

BOD Analysis of the for: **Ouachita River 07/18/2001 - OR19 / Ouachita River Koch Nitrogen**

Measured Data					Calculated Data	
Days	***Total BOD (mg/l)***	***NOx as N (mg/l)***	***NBOD (mg/l)***	***CBOD (mg/l)***	***NBOD (mg/l)***	***CBOD (mg/l)***
Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7
0		0.78				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	1.0	0.71	0.00	1.00	0.00	0.80
4	3.2	0.70	0.00	3.20	0.00	2.85
6	4.7	0.82	0.18	4.52	0.18	3.97
11	8.3	1.13	1.60	6.65	1.65	6.13
15	9.5	1.31	2.42	7.17	2.33	7.35
20	10.7	1.40	2.83	7.87	2.83	8.43
29	12.0	1.51	3.34	8.77	3.23	9.57
40	13.2	1.37	2.70	9.82	3.38	10.22
50	14.1	1.57	3.61	10.68	3.42	10.48
60	14.9	1.60	3.75	11.47	3.43	10.60
					3.44	10.70	**UBOD (mg/l)**
					0.12	0.08	**k rate (1/day)**
					5.54	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.

Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

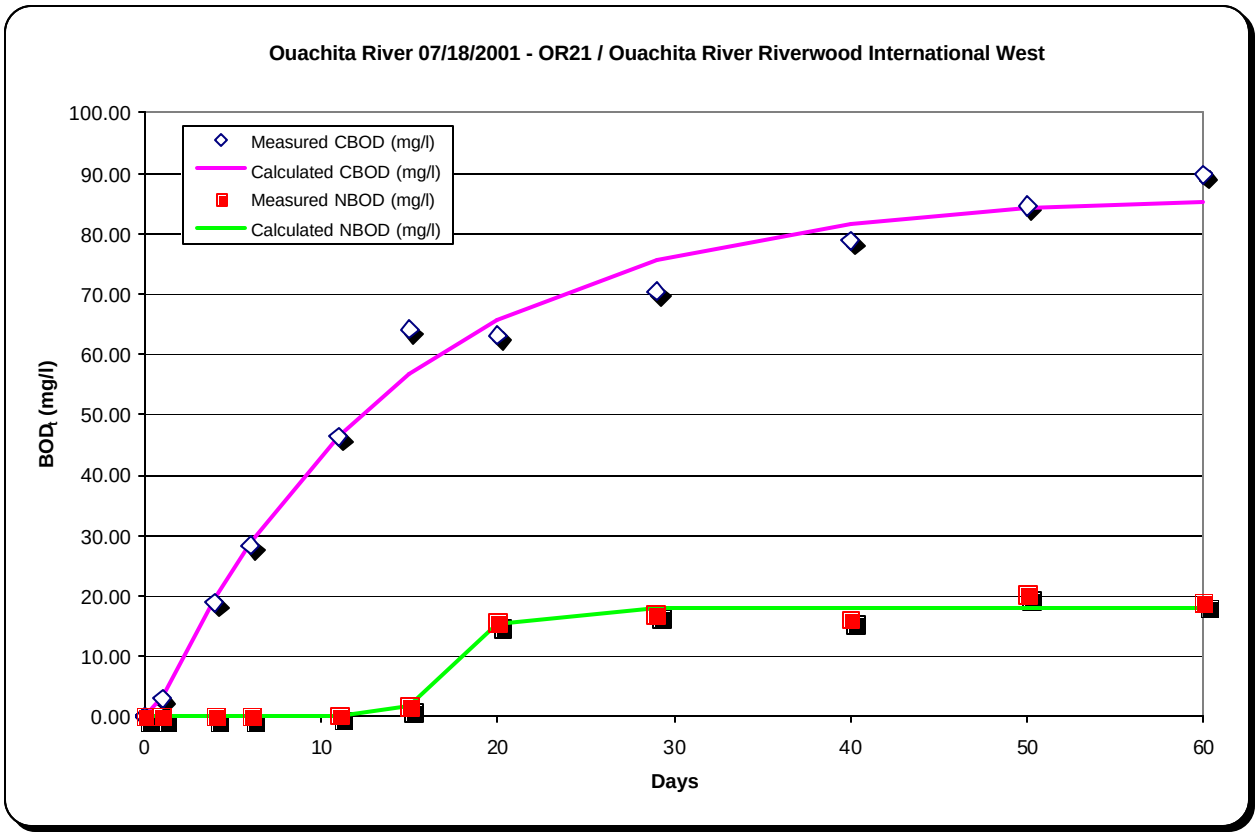
Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

BOD Analysis of the for: **Ouachita River 07/18/2001 - OR21 / Ouachita River Riverwood International West**

Measured Data					Calculated Data	
Days	***Total BOD (mg/l)***	***NOx as N (mg/l)***	***NBOD (mg/l)***	***CBOD (mg/l)***	***NBOD (mg/l)***	***CBOD (mg/l)***
Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7
0		0.16				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	3.0	0.08	0.00	3.00	0.00	3.30
4	19.0	0.10	0.00	19.00	0.00	19.72
6	28.30	0.16	0.00	28.30	0.00	28.82
11	46.5	0.21	0.23	46.50	0.00	46.51
15	65.8	0.52	1.65	64.12	1.68	56.66
20	78.5	3.55	15.49	63.13	15.37	65.80
29	88.5	3.88	17.00	70.51	17.99	75.78
40	96.9	3.68	16.09	78.80	18.10	81.68
50	102.7	4.58	20.20	84.60	18.10	84.16
60	107.9	4.29	18.87	89.80	18.10	85.34

18.10	86.44	**UBOD (mg/l)**
0.36	0.07	**k rate (1/day)**
14.73	0.47	**Lag time (days)**



Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.

Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

LOWER OUACHITA RIVER MODEL DISCHARGER INFORMATION

LA0112780, Ouachita Power Outfalls 001 & 002:
Plant water intake at 5.493 mgd (Hardy to Higgins, LDEQ, 5/11/00)
Cooling tower blowdown at 1.242 mgd and 99 ^{o}F maximum temperature (LDEQ draft permit, 2000)

LA0007579, Entergy Sterlington Outfalls 001 & 002:
Once through non-contact cooling water at 159 mgd and 112 ^{o}F maximum temperature (LDEQ permit, 2000)

LA0046809, Town of Sterlington Outfall 001:
Treated municipal wastewater from a three cell oxidation pond at 0.15 mgd and 30 mg/l BOD5 maximum (LADEQ PERMIT, 2001)

LA0094846, Koch Nitrogen Outfall 001:
Treated process wastewater at 2.49 mgd and 342 lb/d NH3-N maximum (LDEQ permit, 1998)

LA0007854, Angus Chemical Outfall 002:
Treated process wastewater at 0.75 mgd and 288 lb/d BOD5 (LDEQ draft permit, 2001)

LA0007765, Entergy Monroe Outfalls 001 & 002:
Once through non-contact cooling water at 116 mgd and 106 ^{o}F maximum temperature (USEPA permit, 1990)

LA0007617, Riverwood Outfall 001:
Treated paper mill process wastewater (lagoon system) and municipal wastewater (single cell oxidation pond and upflow rock filter) at 29.5 mgd and BOD5 = 5.95Q-240 lb/d (LDEQ permit, 1995)
Q = Ouachita River flow at the Louisiana-Arkansas state line in cfs

LA0038741, City of Monroe POTW Outfall 001:
Treated (trickling filter and sand filtration) municipal wastewater at 12.0 mgd design capacity and 10/2 mg/l BOD5/NH3-N maximum (USEPA permit, 1997)

LOWER OUACHITA RIVER (ORM 200 TO 117) POINT SOURCES

				Calibration (measured) data		
Name	Site No.	ORKm	ORM**	Flow (mgd)	Flow (cfs)	Temp (^{o}F)
Bayou Bartholomew	OR11	310.70	193.49		62.39	83.75
Ouachita Power intake		309.88	192.98	0.00	0.00	
Ouachita Power Outfall 001 & 002		309.75	192.90	0.00	0.00	
Entergy Sterlington intake		309.24	192.58	158.40	245.04	
Entergy Sterlington Outfalls 001 & 002		309.05	192.46	158.40	245.04	103.5
Town of Sterlington	OR20	308.00	191.81	0.00	0.00	
Koch Nitrogen Outfall 001	OR19	307.28	191.36	1.02	1.58	
Angus Chemical Outfall 002	OR18	303.86	189.24	0.47	0.73	
Bayou deLoutre	OR12	301.71	187.90	0.00	0.00	
Bayou d'Arbonne	OR13	277.51	172.87	0.00	0.00	
Bayou Chauvin	OR14	275.51	171.62		2.02	86.126
Entergy Monroe intake		271.95	169.41	92.00	142.32	
Entergy Monroe Outfall		271.76	169.29	92.00	142.32	99.6
West Monroe POTW				2.28	3.52	
Riverwood Industries				11.70	18.10	
Judy Slough*	OR21	258.27	160.91	13.98	21.62	84.056
City of Monroe POTW	OR17	256.09	159.56	7.19	11.12	
Cheniere Creek	OR15	246.55	153.63		16.79	82.058
Cypress Creek	OR16	213.87	133.32	0.00	0.00	

* Sum of Riverwood Industries and West Monroe POTW discharges

** All river miles adjusted by 0.43 mile to agree with COE HEC-2 river miles at Columbia and Felsenthal Dams

LOWER OUACHITA RIVER SURVEY DATA 1

Continuous monitoring data

		Temperature (°C)			Dissolved Oxygen (mg/l)			Specific Conductivity (uS/cm)			pH			Temperature (°F)		
Site	ORM	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max
OR1	200.15	30.98	31.28	31.96	5.51	5.86	6.22	99.8	105.9	112.5	6.76	6.91	7.04	87.8	88.3	89.5
OR2	187.54	31.41	31.97	32.94	4.33	5.15	6.29	100.1	103.6	106.7	6.86	6.95	7.16	88.5	89.5	91.3
OR3	177.49	31.45	32	32.97	5.18	5.82	6.66	84.8	88.1	91	6.65	6.73	6.87	88.6	89.6	91.3
OR4	161.67	31.41	31.98	33.83	4.4	5.17	7.85	116	118.5	120.8	6.69	6.85	7.52	88.5	89.6	92.9
OR5	148.65	31.37	32.03	33.36	4.08	5.04	8.16	133.3	136.7	141.7	6.74	6.93	7.91	88.5	89.7	92.0
OR6	138.06	31.56	32.13	33.83	4.06	5.16	8.28	144.6	155.71	161.6	6.7	6.8	7.6	88.8	89.8	92.9
OR9	117.76	31.22	31.9	33.17	3.21	4.36	6.59	132.8	135	137.6	6.49	6.63	6.94	88.2	89.4	91.7

In-situ and Laboratory Data

		In-situ Data						Laboratory Data						
Site		T (°C)	T (°F)	DO (mg/l)	SpC (uS/cm)	pH	Secchi Disc (ft.)	TSS (mg/l)	Turb (NTU)	TDS (mg/l)	Alk (mg/l)	SpC (umhos/cm)	Color (PCU)	Cl^- (mg/l)
OR1a	200.15	**	**				2.5	8.5	13	78.7	23	111	42	9.9
OR1b	200.15							8.5	13	79.3	23	110	42	9.9
OR2a	187.54	**	**				2	7.5	13	86	22.7	112	49	10.4
OR2b	187.54							8	13	88	22.8	112	50	10.4
OR3	177.49	**	**				2	9.6	13	96	21.6	111	55	10.9
OR4	161.67	**	**				2	8.5	15	102	23.8	128	55	14.0
OR5	148.65	**	**				2	6.5	15	103	25.8	147	55	16.5
OR6a	138.06	**	**				2.2	6.4	14	116	25.2	171	55	24.8
OR6b	138.06							7.6	12	113	25.1	171	55	25.0
OR9	117.76	**	**				2.5	5.3	14	106	21.9	142	60	16.9
OR10	116.2													
OR11a		28.75	83.75	5.91	162	7.49		21	30	115	57.3	174	38	13.7
OR11b								25	30	115	56.8	174	39	13.8
OR14		30.07	86.13	4.81	255	7.45		56	50	185	79.1	274	60	28.8
OR15a		27.81	82.06	4.46	54.9	6.57		6.5	6.3	60.7	16.7	62	65	4.7
OR15b								5	6.4	58.7	17	61	65	4.8
OR17								7.3	5.5	528	95.4	802	14	100.0
OR18								ND	2.3	1914	243	2854	48	130.0
OR19								49.6	18	304	26.1	458	120	40.6
OR21		28.92	84.06	1.75	259	8.41	0.5	40	500	1277	399	1815	660	128.0

** Detailed in-situ profiles may be found on the Data 4 page.

LOWER OUACHITA RIVER SURVEY DATA 2

Laboratory Data

Site	SO_4^{--}	Na^+	Hardnes	Nox	TP	TKN	NH_3-N	TOC	OP	Chl-a	UCBOD	Kd	UNBOD	Kn
OR1a				0.17	0.06	0.67	ND*		0.02	12.1	4.54	0.07	0.83	0.16
OR1b				0.17	0.06	0.68	ND*			12.7	5.53	0.09	1.53	0.17
OR2a				0.17	0.11	0.34	ND*			9.2	4.51	0.06	0.72	0.19
OR2b				0.19	0.10	0.44	ND*			9.5	4.31	0.06	0.82	0.21
OR3				0.19	0.09	0.52	ND*			10.6	5.12	0.07	1.09	0.15
OR4				0.20	0.07	0.61	ND*		0.03	8.7	5.73	0.07	1.4	0.17
OR5				0.21	0.09	0.73	ND*		0.02	10.6	5.84	0.09	1.55	0.14
OR6a				0.24	0.09	0.54	ND*		0.03	18.2	6.12	0.08	1.42	0.13
OR6b				0.24	0.08	0.59	ND*			18.1	5.81	0.07	1.75	0.1
OR9				0.47	0.08	0.59	ND*		0.03	8.2	5.16	0.05	0.87	0.1
OR11a				0.09	0.27	0.60	ND*		0.03	15.7	7.03	0.09	1.57	0.17
OR11b				0.09	0.16	0.70	ND*				7.60	0.09	0.87	0.11
OR14				0.22	0.94	2.81	1.12		0.57	26.4	20.67	0.05	9.12	0.17
OR15a				ND*	0.06	0.75	ND*		ND	12.0	10.90	0.04	1.25	0.23
OR15b				ND*	0.06	0.74	ND*				10.97	0.05	1.01	0.18
OR17				6.36	1.24	2.17	0.34		0.29		24.33	0.06	17.77	0.03
OR18				34.33	0.34	8.63	0.31		ND		0.00	0	64.95	0.11
OR19				0.58	0.39	1.16	0.40		0.15		10.70	0.08	3.44	0.12
OR21				0.12	1.39	4.48	1.50		0.70	12.2	86.44	0.07	18.1	0.36

* Detection limits are orthophosphate = 0.02 mg/l, NOx = 0.05 mg/l, ammonia nitrogen = 0.10. We will use a value of LD/2 for OP and NOx non-detects and .02 for NH3-N non-detects.

Site Identification

Site	Description	Site	Description
OR1a	Ouachita River above Bayou Bartholomew	OR11a	Bayou Bartholomew
OR1b	Duplicate of OR1a	OR11b	Duplicate of 11a
OR2a	Ouachita River at De L'outre Basin	OR12	Bayou De L'outre (no flow)
OR2b	Duplicate of OR2a	OR13	Bayou d'Arbonne (no flow)
OR3	Ouachita River above Chauvin Bayou	OR14	Chauvin Bayou
OR4	Ouachita River above Judy Slaugh	OR15a	Chenere Creek
OR5	Ouachita River below Chenere Creek	OR15b	Duplicate of OR15a
OR6a	Ouachita River above Cypress Creek	OR16	Cypress Creek (no flow)
OR6b	Duplicate of OR6a	OR17	Monroe POTW
OR7	Ouachita River below Ferrand Lake	OR18	Angus Chemical 002
OR8	Ouachita River above Riverton Lake	OR19	Koch Nitrogen 001
OR9	Ouachita River above Colombia Lock and Dam	OR20	Town of Sterlington POTW (no discharge)
OR10	Ouachita River below Columbia Lock and Dam	OR21	Judy Slough

LOWER OUACHITA RIVER SURVEY DATA 3

Discharges and Cross Sections				
Site No.	ORM	Discharge (cfs)	Width (ft)	Depth (ft)
OR1	200.15	3720.77	406.87	15.97
OR2	187.54		404.00	13.66
OR3	177.49		467.00	22.79
OR4	161.67		592.00	22.13
OR5	148.65	4461.33	489.51	21.18
OR6	138.06		445.00	32.49
OR7	121.60		601.00	24.69
OR8	118.64		563.00	25.19
OR9	117.76		730.00	19.72
OR10	116.20	4433.35	427.71	23.88
OR11b		62.39	66.80	1.86
OR14		2.02	9.30	0.33
OR15		16.79	34.00	3.00

CLIMATE DATA FOR 7/18/01 FROM LOSC					
Time	Dry bulb (^{o}F)	Wind speed (knots)	Precipitation (in)	Time interval	Avg. wind speed (fps)
1:00	74	0	0		
2:00					
3:00	73	0	0	1-3	0.0
4:00	73	0	0		
5:00	71	0	0		
6:00	72	0	0	4-6	0.0
7:00	76	0	0		
8:00	81	0	0		
9:00	86	4	0	7-9	2.2
10:00	86	5	0		
11:00	89	0	0		
12:00	89	3	0	10-12	4.5
13:00	92	3	0		
14:00	92	3	0		
15:00	94	3	0	13-15	5.1
16:00	93	6	0		
17:00	93	0	0		
18:00	91	0	0	16-18	3.4
19:00	87	0	0		
20:00	82	0	0		
21:00	82	3	0	19-21	1.7
22:00	79	0	0		
23:00	76	0	0		
0:00	75	0	0	22-24	0.0
Avg.	82.87	1.30			2.20
Td-Tw (^{o}F)*	8.20				
Wet bulb (^{o}F)	74.67				

* From Monthly Td-Tw Table

LOWER OUACHITA RIVER SURVEY DATA 4

Ouachita River in-situ profiles on 7/18/01

Site OR1 @ 0830	1m	6ft	9ft	12ft	15ft
pH	7.07	7.01	6.98	6.96	6.95
DO (mg/l)	5.76	5.41	5.65	5.01	5.32
T (^{o}C)	31.0	31.0	31.0	31.0	31.0
T (^{o}F)	87.8	87.8	87.8	87.8	87.8
SpC (uS/cm)	94.0	92.0	89.6	89.4	91.4

Site OR5 @ 1100	1m	6ft	9ft	12ft	15ft
pH	6.88	6.84	6.82	6.83	6.83
DO (mg/l)	4.40	4.04	4.09	3.60	3.72
T (^{o}C)	31.5	31.4	31.4	31.4	31.4
T (^{o}F)	88.7	88.5	88.4	88.4	88.4
SpC (uS/cm)	130.7	128.6	128.6	128.8	129.0

Site OR2 @ 0900	1m	9ft	18ft
pH	6.84	6.83	6.80
DO (mg/l)	5.35	5.46	5.46
T (^{o}C)	31.6	31.6	31.6
T (^{o}F)	88.9	88.9	88.9
SpC (uS/cm)	102.0	102.0	101.0

Site OR6 @ 1420	1m	6ft	9ft	12ft	15ft
pH	6.89	6.72	6.62	6.55	6.51
DO (mg/l)	5.02	4.07	3.98	3.87	3.84
T (^{o}C)	31.9	31.6	31.6	31.5	31.4
T (^{o}F)	89.4	88.9	88.8	88.6	88.6
SpC (uS/cm)	155.0	155.0	155.0	154.0	154.0

Site OR3 @ 1120	1m	9ft	18ft	27ft
pH	6.75	6.68	6.67	6.65
DO (mg/l)	4.99	4.97	4.96	4.92
T (^{o}C)	31.6	31.6	31.5	31.5
T (^{o}F)	88.8	88.8	88.8	88.7
SpC (uS/cm)	100.0	100.0	100.0	100.0

Site OR9 @ 1340	1m	9ft	15ft	21ft	27ft	33ft
pH	6.77	6.62	6.51	6.44	6.64	6.36
DO (mg/l)	3.68	3.98	3.84	3.83	3.64	3.64
T (^{o}C)	31.4	31.6	31.4	31.5	31.4	31.4
T (^{o}F)	88.6	88.8	88.6	88.6	88.6	88.5
SpC (uS/cm)	126.1	155.0	154.0	154.0	154.0	153.0

Site OR4 @ 0810	1m	6ft	9ft	12ft	15ft	18ft
pH	6.94	6.68	6.63	6.54	6.62	6.58
DO (mg/l)	4.68	5.40	5.04	4.86	4.85	4.01
T (^{o}C)	31.4	31.5	31.4	31.4	31.4	31.4
T (^{o}F)	88.6	88.6	88.6	88.6	88.6	88.6
SpC (uS/cm)	114.0	115.0	115.0	115.0	115.0	115.0

Date & times	Site	Date	Time
7/18/2001 8:30	1	07/18/01	8:30
7/18/2001 9:00	2	07/18/01	9:00
7/18/2001 11:20	3	07/18/01	11:20
7/18/2001 8:10	4	07/18/01	8:10
7/18/2001 11:00	5	07/18/01	11:00
7/18/2001 14:20	6	07/18/01	14:20
7/18/2001 13:40	9	07/18/01	13:40

OUACHITA RIVER FLOW DATA FROM USGS
State line slope gauge
Contact: Burl Goree Phone: 318-251-9630

YEAR	MONTH	DAY	DISCH
2001	6	18	Flood
2001	6	19	Flood
2001	6	20	7560
2001	6	21	6120
2001	6	22	6580
2001	6	23	5350
2001	6	24	5310
2001	6	25	4540
2001	6	26	3350
2001	6	27	2750
2001	6	28	2650
2001	6	29	4110
2001	6	30	5380
2001	7	1	6760
2001	7	2	7520
2001	7	3	6690
2001	7	4	5070
2001	7	5	5290
2001	7	6	5180
2001	7	7	4140
2001	7	8	3880
2001	7	9	5040
2001	7	10	4480
2001	7	11	3750
2001	7	12	2910
2001	7	13	2900
2001	7	14	3140
2001	7	15	2800
2001	7	16	3220
2001	7	17	2310
2001	7	18	1870
2001	7	19	1830

APPENDIX C - CALIBRATION INPUT SUMMARY AND SENSITIVITY SUMMARY

LOWER OUACHITA RIVER MODEL ELEMENT NUMBER CALCULATIONS								
Reach No.	Reach ID	Name	Top ORM	Bottom ORM	Element length (mi)	No. elements	Top element no.	Bottom element no.
1			200.38	195.38	0.25	20	1	20
2			195.38	190.38	0.25	20	21	40
3			190.38	185.38	0.25	20	41	60
4			185.38	180.38	0.25	20	61	80
5			180.38	175.38	0.25	20	81	100
6			175.38	170.38	0.25	20	101	120
7			170.38	165.38	0.25	20	121	140
8			165.38	160.38	0.25	20	141	160
9			160.38	155.38	0.25	20	161	180
10			155.38	150.38	0.25	20	181	200
11			150.38	145.38	0.25	20	201	220
12			145.38	140.38	0.25	20	221	240
13			140.38	135.38	0.25	20	241	260
14			135.38	130.38	0.25	20	261	280
15			130.38	125.38	0.25	20	281	300
16			125.38	120.38	0.25	20	301	320
17			120.38	117.38	0.25	12	321	332

POINT SOURCE ELEMENT CALCULATIONS						
Source No.	Source Name	Reach No.	ORM	Element No.	Revised Element No.*	Flag No.
1	Bayou Bartholomew	2	193.49	28	28	8
2	Ouachita Power intake*	2	192.98	30	29	9
3	Ouachita Power Outfall 001 & 002	2	192.90	30	30	10
4	Entergy Sterlington intake*	2	192.58	32	31	11
5	Entergy Sterlington Outfalls 001 & 002	2	192.46	32	32	12
6	Town of Sterlington	2	191.81	35	35	15
7	Koch Nitrogen Outfall 001	2	191.36	37	37	17
8	Angus Chemical Outfall 002	3	189.24	45	45	5
9	Bayou deLoutre	3	187.90	50	50	10
10	Bayou d'Arbonne	6	172.87	111	111	11
11	Bayou Chauvin	6	171.62	116	116	16
12	Entergy Monroe intake	7	169.41	124	124	4
13	Entergy Monroe Outfall	7	169.29	125	125	5
14	Judy Slough	8	160.91	158	158	18
15	City of Monroe POTW	9	159.56	164	164	4
16	Cheniere Creek	10	153.63	188	188	8
17	Cypress Creek	14	133.32	269	269	9

* Since Qual2E will accept only one input or output per element, two inputs were moved one element to allow the model to run.

LOWER OUACHITA RIVER MODEL CALIBRATION INPUT

Headwater and Point Sources

Name	Representative Site No.	ORM	Reach No.	Flow (cfs)	Temp (^oF)	DO (mg/l)	UCBOD (mg/l)	CL^- (mg/l)	SpC (umhos/cm)	Chl-a (ug/l)
Headwater	OR1	200.15	1	3721	88.3	5.87	5.04	9.9	111	12.4
Bayou Bartholomew	OR11	193.49	2	62.39	83.8	5.91	7.3	13.8	162	7
Ouachita Power intake	OR1	192.98	2	0.00						
Ouachita Power Outfall 001 & 002	OR1	192.90	2	0.00						
Entergy Sterlington intake	OR1	192.58	2	245.04	88.3	5.87	5.0	9.9	106	
Entergy Sterlington Outfalls 001 & 002	OR1	192.46	2	245.04	103.5	5.67	5.0	9.9	106	0
Town of Sterlington	OR20	191.81	2	0.00						
Koch Nitrogen Outfall 001	OR19	191.36	2	1.58	86	2	10.7	40.6	458	0
Angus Chemical Outfall 002	OR18	189.24	3	0.73	86	2	0.0	130.0	2854	0
Bayou deLoutre	OR12	187.90	3	0.00						
Bayou d'Arbonne	OR13	172.87	6	0.00						
Bayou Chauvin	OR14	171.62	6	2.02	86.1	4.81	20.7	28.8	274	20.7
Entergy Monroe intake	OR4	169.41	7	142.32	89.6	5.31	5.7	14.0	119	
Entergy Monroe Outfall	OR4	169.29	7	142.32	99.6	5.11	5.7	14.0	119	0
Judy Slough	OR21	160.91	8	21.62	84.1	1.75	86.4	128.0	1815	12.2
City of Monroe POTW	OR17	159.56	9	11.12	86	2	24.3	100.0	802	0
Cheniere Creek	OR15	153.63	10	16.79	82.1	4.46	10.9	4.8	55	10.9
Cypress Creek	OR16	133.32	14	0.00						

Name	TKN (mg/l)	NH_3-N (mg/l)	Org-N (mg/l)	Nox (mg/l)	NO_2^- (mg/l)	NO_3^- (mg/l)	TP (mg/l)	OP (mg/l)	Org-P (mg/l)	
Headwater	0.68	0.05	0.66	0.17	0	0.17	0.06	0.02	0.04	
Bayou Bartholomew	0.65	0.05	0.63	0.09	0	0.09	0.22	0.03	0.19	
Ouachita Power intake										
Ouachita Power Outfall 001 & 002										
Entergy Sterlington intake	0.68	0.05	0.63	0.17	0	0.17	0.06	0.02	0.04	
Entergy Sterlington Outfalls 001 & 002	0.68	0.05	0.63	0.17	0	0.17	0.06	0.02	0.04	
Town of Sterlington										
Koch Nitrogen Outfall 001	1.16	0.40	0.76	0.58	0	0.58	0.39	0.15	0.24	
Angus Chemical Outfall 002	8.63	0.31	8.32	34.33	0	34.33	0.34	0.01	0.33	
Bayou deLoutre										
Bayou d'Arbonne										
Bayou Chauvin	2.81	1.12	1.69	0.22	0	0.22	0.94	0.57	0.37	
Entergy Monroe intake	0.61	0.05	0.56	0.20	0	0.20	0.07	0.03	0.04	
Entergy Monroe Outfall	0.61	0.05	0.56	0.20	0	0.20	0.07	0.03	0.04	
Judy Slough	4.48	1.50	2.98	0.12	0	0.12	1.39	0.70	0.69	
City of Monroe POTW	2.17	0.34	1.83	6.36	0	6.36	1.24	0.29	0.95	
Cheniere Creek	0.75	0.05	0.73	0.03	0	0.03	0.06	0.01	0.05	
Cypress Creek										

CALIBRATION WIND AIDED REAERATION CALCULATIONS															
REACH	AVG FLOW	AVG DEPTH (D)	AVG VELOCITY (V)	AVG TEMP	AVG TEMP (T)	$K2_{20}$ = O'CONNOR-DOBBINS	$K2_T$	$K2_{20}$ = 2.3/H	MAX $K2_{20}$	V_W(10m)	V_W (10m)	V_{WS} (0.3m)	WIND AIDED $K2_{20}$	SENS RUN +30%	SENS RUN 30%
	(cfs)	(ft)	(fps)	(^oF)	(^oC)	(1/d)	(1/d)	(1/d)	(1/d)	(fps)	(mps)	(mps)	(1/d)	(1/d)	(1/d)
1	3747	16.01	0.576	88.36	31.31	0.153	0.200	0.144	0.153	2.2	0.67	0.41	0.161	0.210	0.113
2	3826	14.87	0.634	88.83	31.57	0.179	0.236	0.155	0.179	2.2	0.67	0.41	0.189	0.246	0.132
3	3910	13.72	0.705	89.35	31.86	0.213	0.282	0.168	0.213	2.2	0.67	0.41	0.225	0.292	0.157
4	3962	18.18	0.488	89.37	31.87	0.116	0.154	0.126	0.126	2.2	0.67	0.41	0.133	0.173	0.093
5	4010	22.76	0.377	89.38	31.88	0.073	0.097	0.101	0.101	2.2	0.67	0.41	0.107	0.139	0.075
6	4062	22.58	0.353	89.39	31.89	0.071	0.095	0.102	0.102	2.2	0.67	0.41	0.107	0.140	0.075
7	4105	22.28	0.334	89.68	32.04	0.071	0.094	0.103	0.103	2.2	0.67	0.41	0.109	0.142	0.076
8	4167	22.07	0.319	89.72	32.06	0.070	0.094	0.104	0.104	2.2	0.67	0.41	0.110	0.143	0.077
9	4244	21.84	0.348	89.66	32.04	0.075	0.099	0.105	0.105	2.2	0.67	0.41	0.111	0.144	0.078
10	4308	21.46	0.352	89.58	31.99	0.077	0.102	0.107	0.107	2.2	0.67	0.41	0.113	0.147	0.079
11	4349	21.16	0.419	89.61	32.01	0.086	0.114	0.109	0.109	2.2	0.67	0.41	0.115	0.149	0.080
12	4372	26.80	0.348	89.60	32.00	0.055	0.073	0.086	0.086	2.2	0.67	0.41	0.090	0.118	0.063
13	4395	32.52	0.304	89.60	32.00	0.038	0.051	0.071	0.071	2.2	0.67	0.41	0.075	0.097	0.052
14	4418	29.93	0.297	89.59	32.00	0.043	0.057	0.077	0.077	2.2	0.67	0.41	0.081	0.105	0.057
15	4441	27.34	0.296	89.59	31.99	0.049	0.065	0.084	0.084	2.2	0.67	0.41	0.089	0.115	0.062
16	4464	24.74	0.300	89.59	31.99	0.057	0.076	0.093	0.093	2.2	0.67	0.41	0.098	0.127	0.069
17	4488	22.51	0.308	89.58	31.99	0.067	0.089	0.102	0.102	2.2	0.67	0.41	0.108	0.140	0.075

* $K2_{20} = 12.9V^{.5}/D^{1.5}$

** $K2_T = K2_{20}(1.024^{(T-20)})$

2.3/D = minimum K2 without wind effects

V_W(10m) = wind velocity at the standard 10 meter height

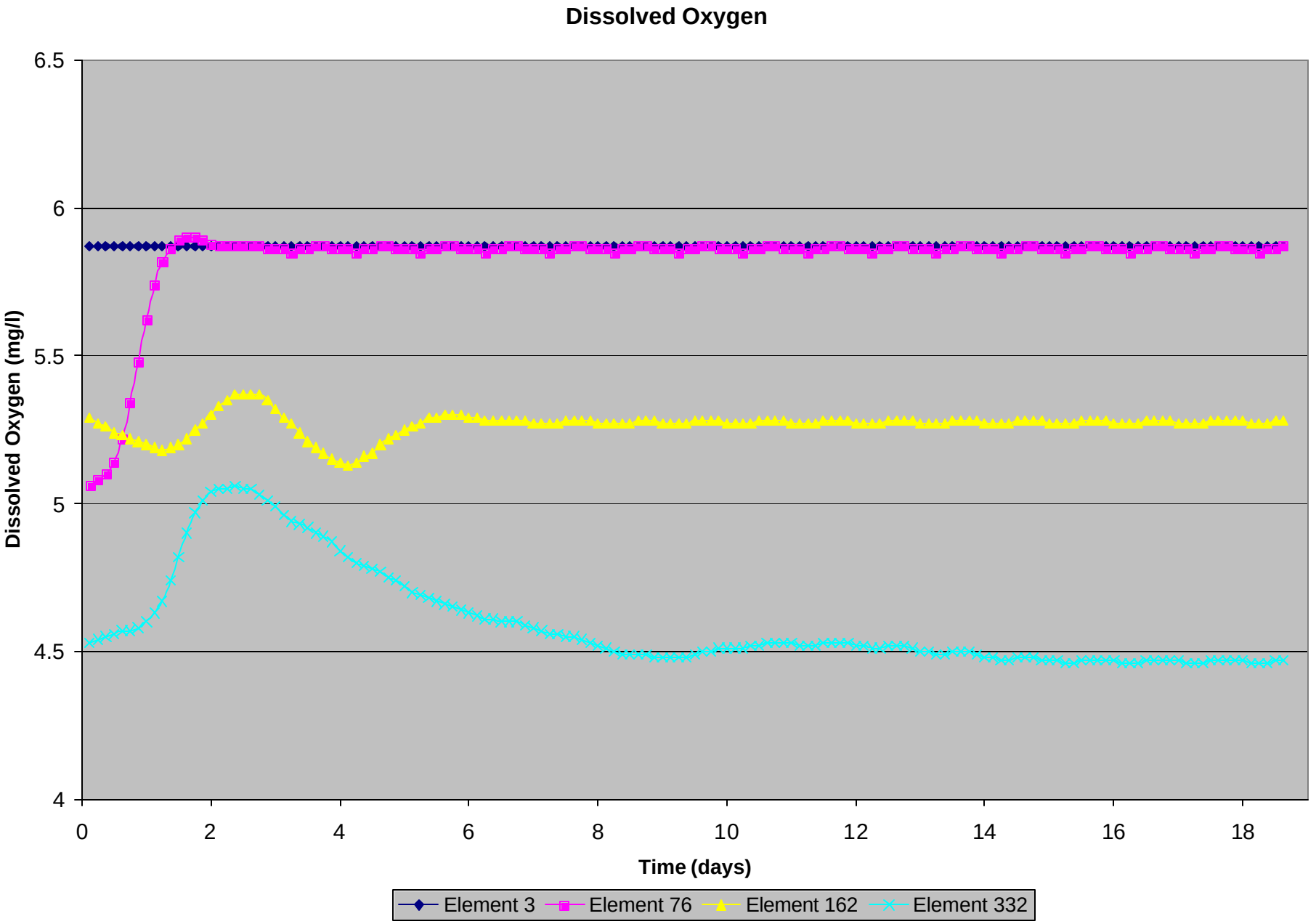
V_{WS}(0.3m) = surface wind velocity ~ velocity at a height of about 1 ft = $(.3\ m/10\ m)^{1/7}$

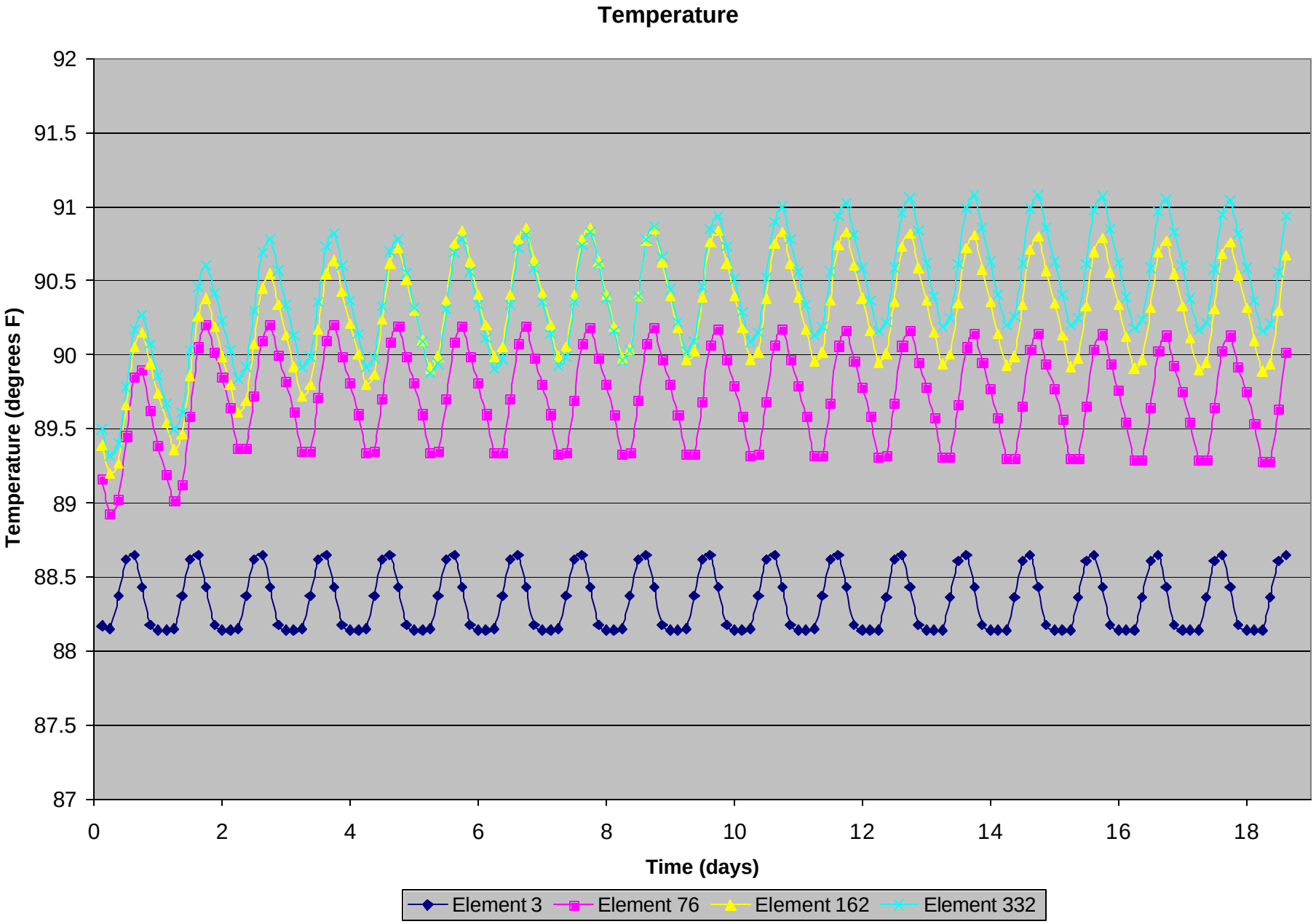
MAX $K2_{20}$ = O'Connor-Dobbins or minimum K2, whichever is greater

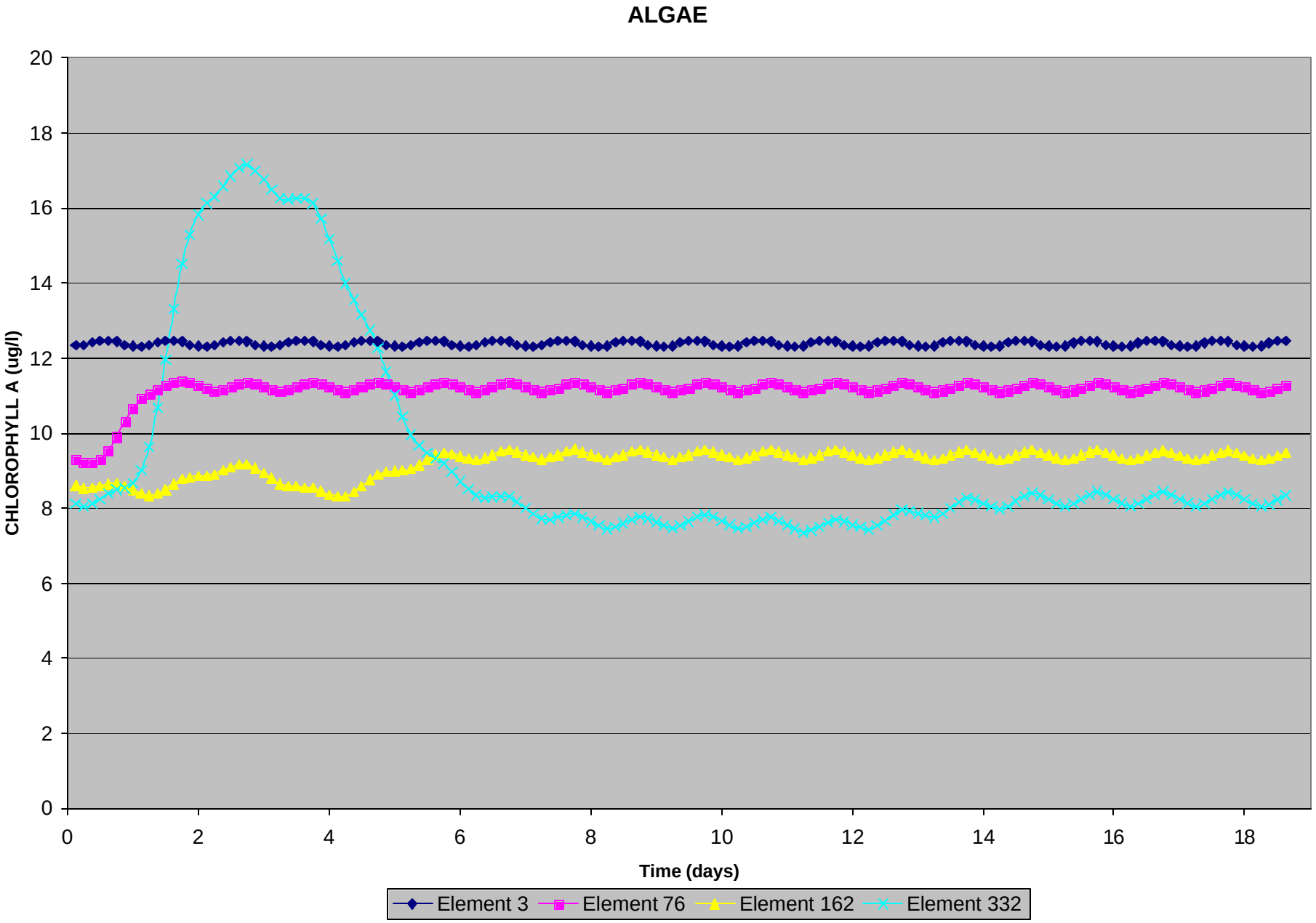
Wind aided $K2_{20} = K2_{20}(1+0.2395V_{WS}^{1.643})$

LOWER OUACHITA RIVER CALIBRATION MODEL SENSITIVITY									
Parameter	Base DO (mg/l)	Plus	Run	Delta DO (mg/l)	% Change	Minus	Run	Delta DO (mg/l)	% Change
Rearation	4.52	30%	161	+ 0.47	10.4	30%	162	- 0.68	-15.0
CBOD decay rate	4.52	30%	160	- 0.34	-7.5	30%	160	+ 0.42	9.3
Temperature	4.52	3.6 ^{o}F	163	- 0.28	-6.2	3.6 ^{o}F	164	+ 0.26	5.8
Headwater flow	4.52	30%	160	+ 0.19	4.2	30%	160	- 0.25	-5.5
Incremental flow	4.52	30%	160	- 0.17	-3.8	30%	160	+ 0.19	4.2
Org-N decay rate	4.52	30%	160	- 0.07	-1.5	30%	160	+ 0.08	1.8
Algae respiration rate	4.52	30%	160	- 0.04	-0.9	30%	160	+ 0.06	1.3
Algae growth rate	4.52	30%	160	+ 0.03	0.7	30%	160	- 0.02	-0.4
Org-P decay rate	4.52	30%	160	0.00	0.0	30%	160	0.00	0.0

APPENDIX D - CALIBRATION DYNAMIC PLOTS

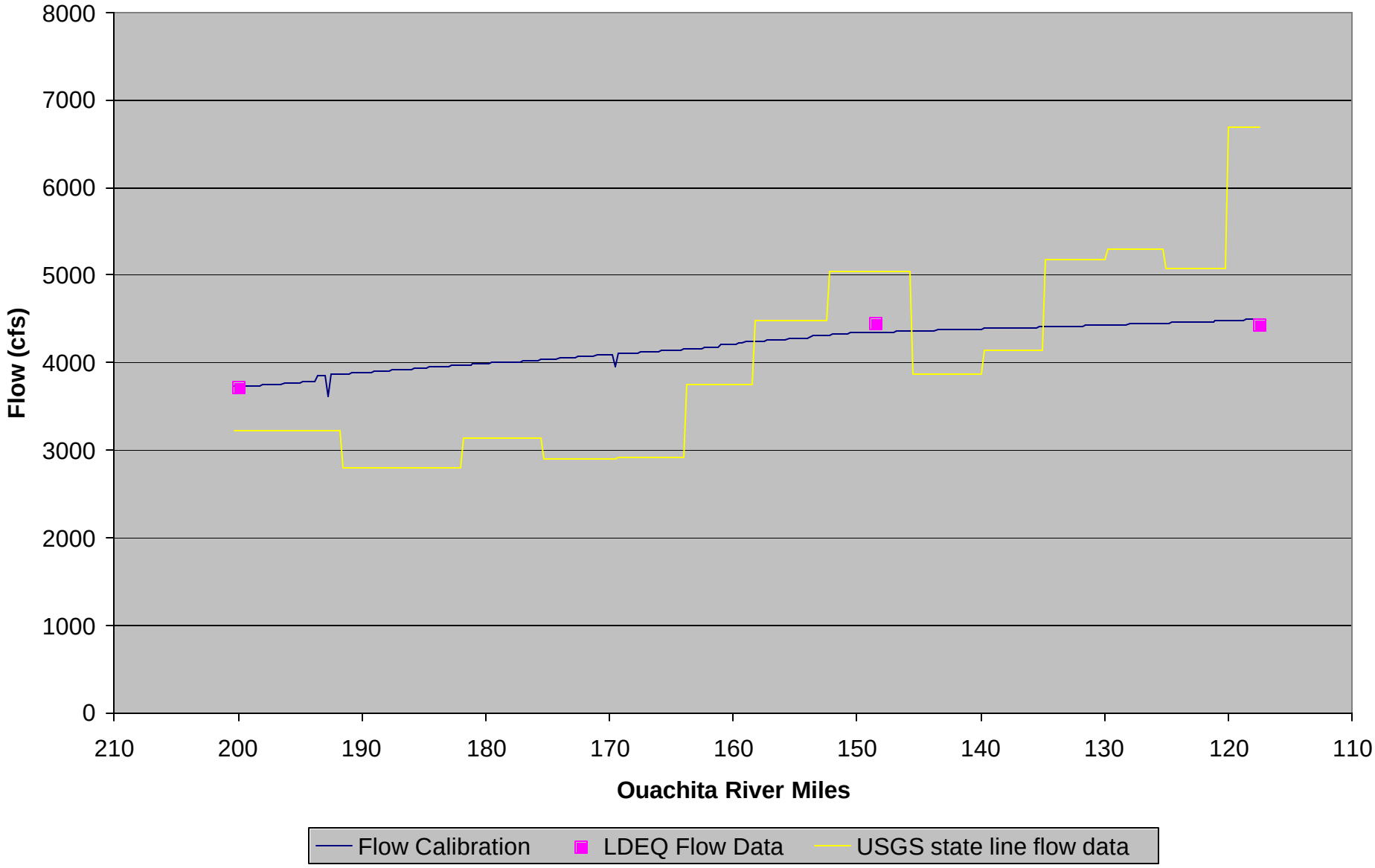

Dissolved Oxygen
Dissolved Oxygen (mg/l)
6.5
6
5.5
5
4.5
4
0
2
4
6
8
10
12
14
16
18
Time (days)
Element 3
Element 76
Element 162
Element 332


Temperature
92
91.5
91
90.5
90
89.5
89
88.5
88
87.5
87
Temperature (degrees F)
0
2
4
6
8
10
12
14
16
18
Time (days)
Element 3
Element 76
Element 162
Element 332

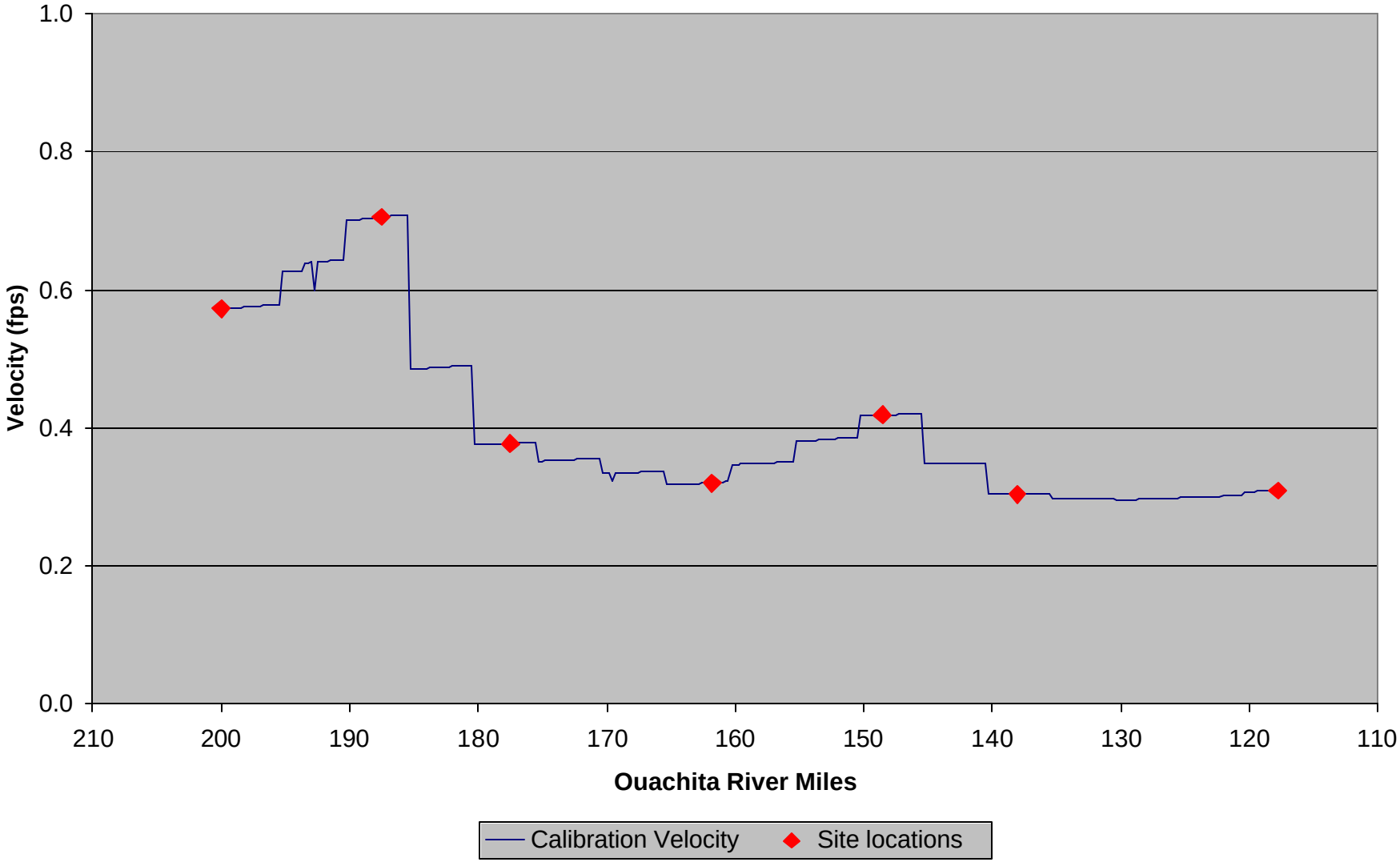

ALGAE
CHLOROPHYLL A (ug/l)
0
2
4
6
8
10
12
14
16
18
20
0
2
4
6
8
10
12
14
16
18
Time (days)
Element 3
Element 76
Element 162
Element 332

APPENDIX E - STEADY STATE CALIBRATION PLOTS

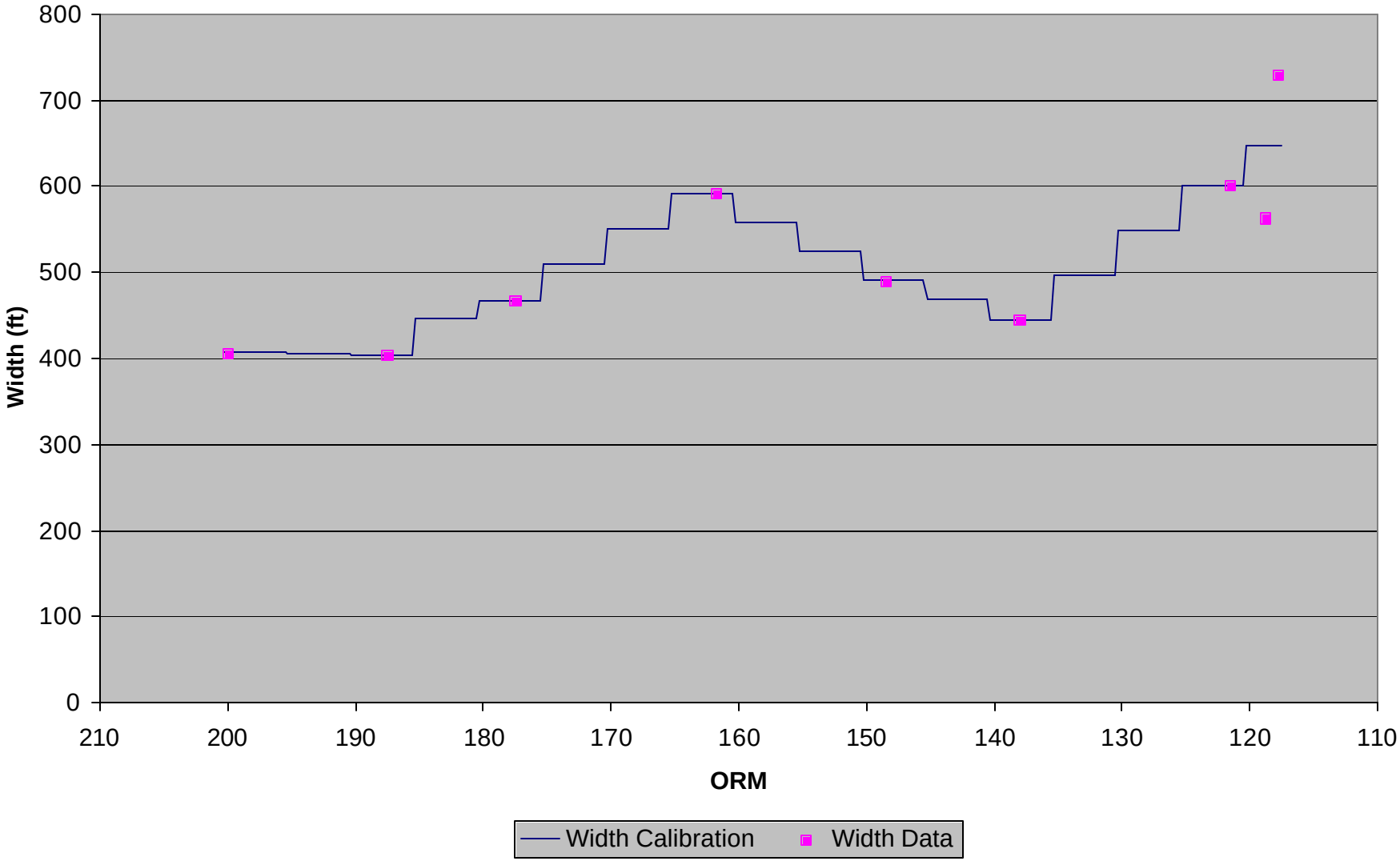
LOWER OUACHITA RIVER FLOW CALIBRATION



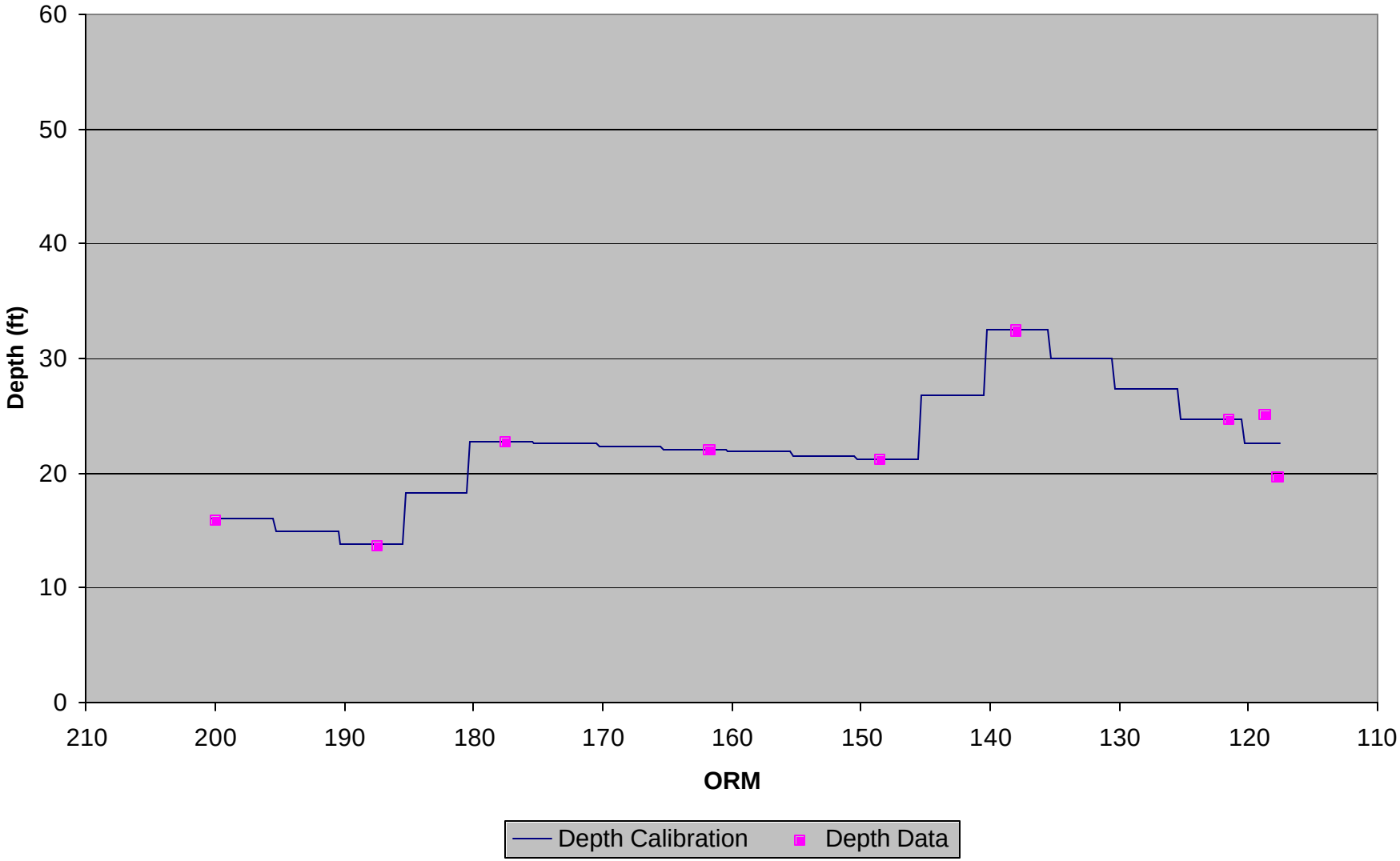
LOWER OUACHITA RIVER VELOCITY CALIBRATION



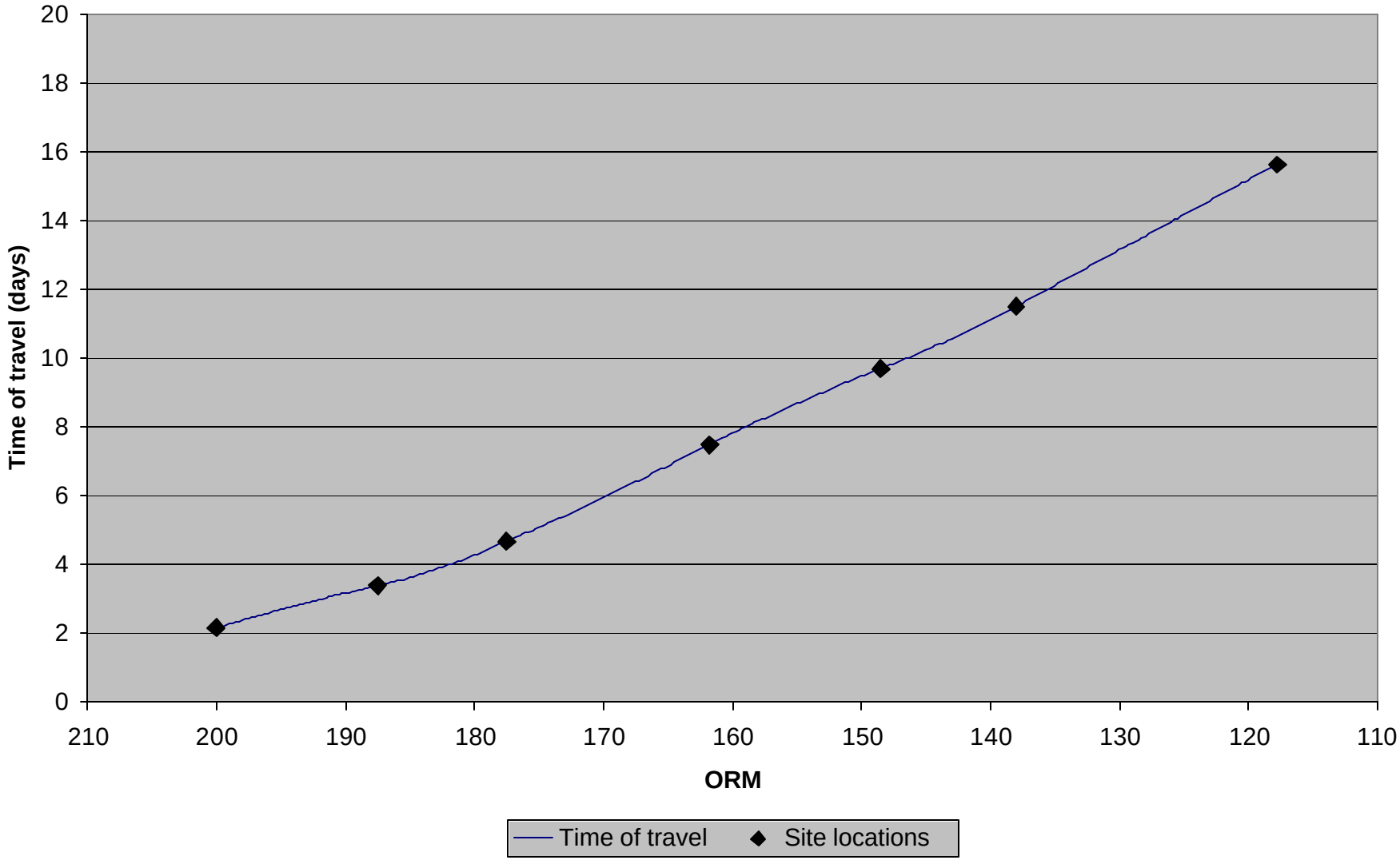
LOWER OUACHITA RIVER WIDTH CALIBRATION



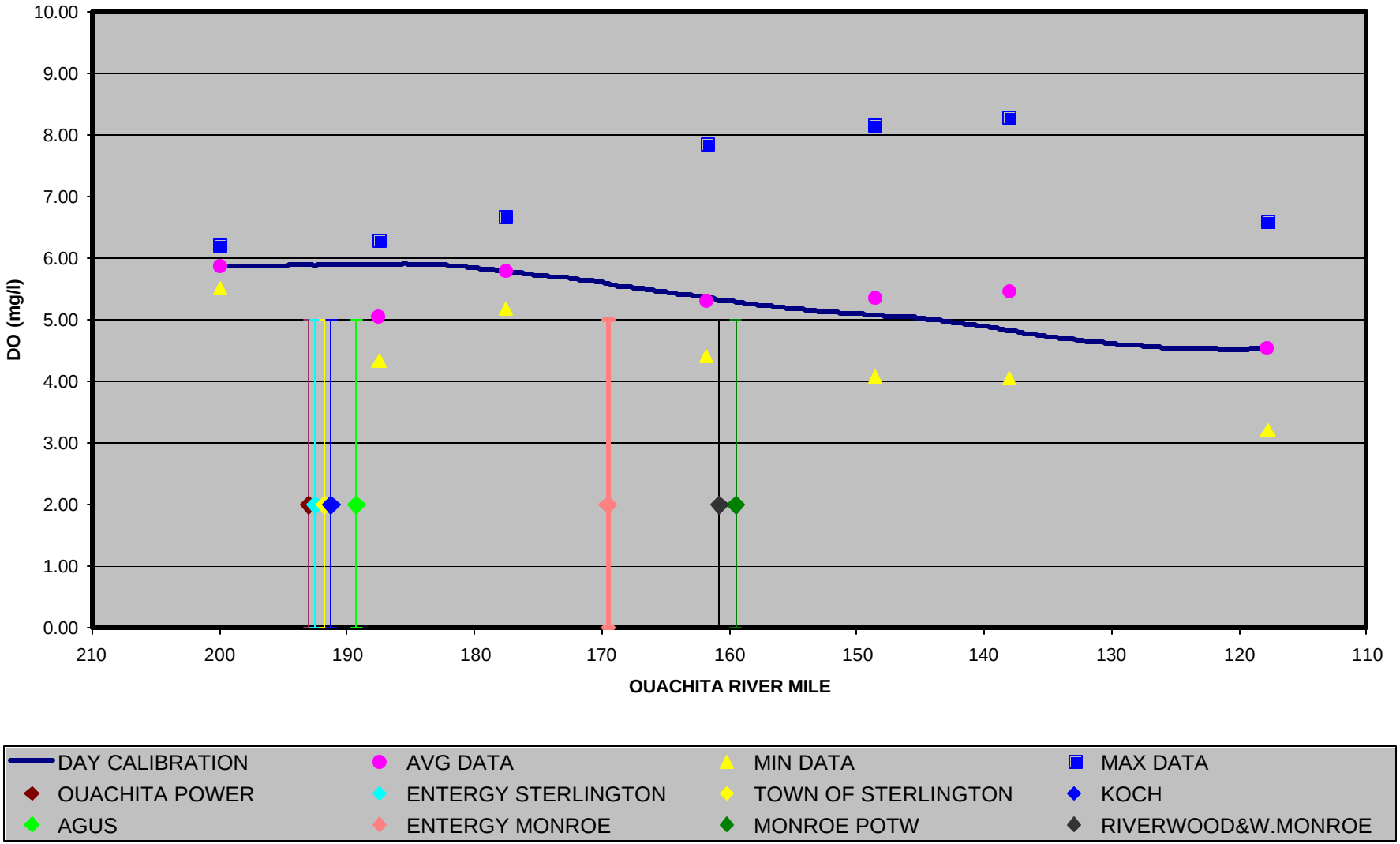
LOWER OUACHITA RIVER DEPTH CALIBRATION



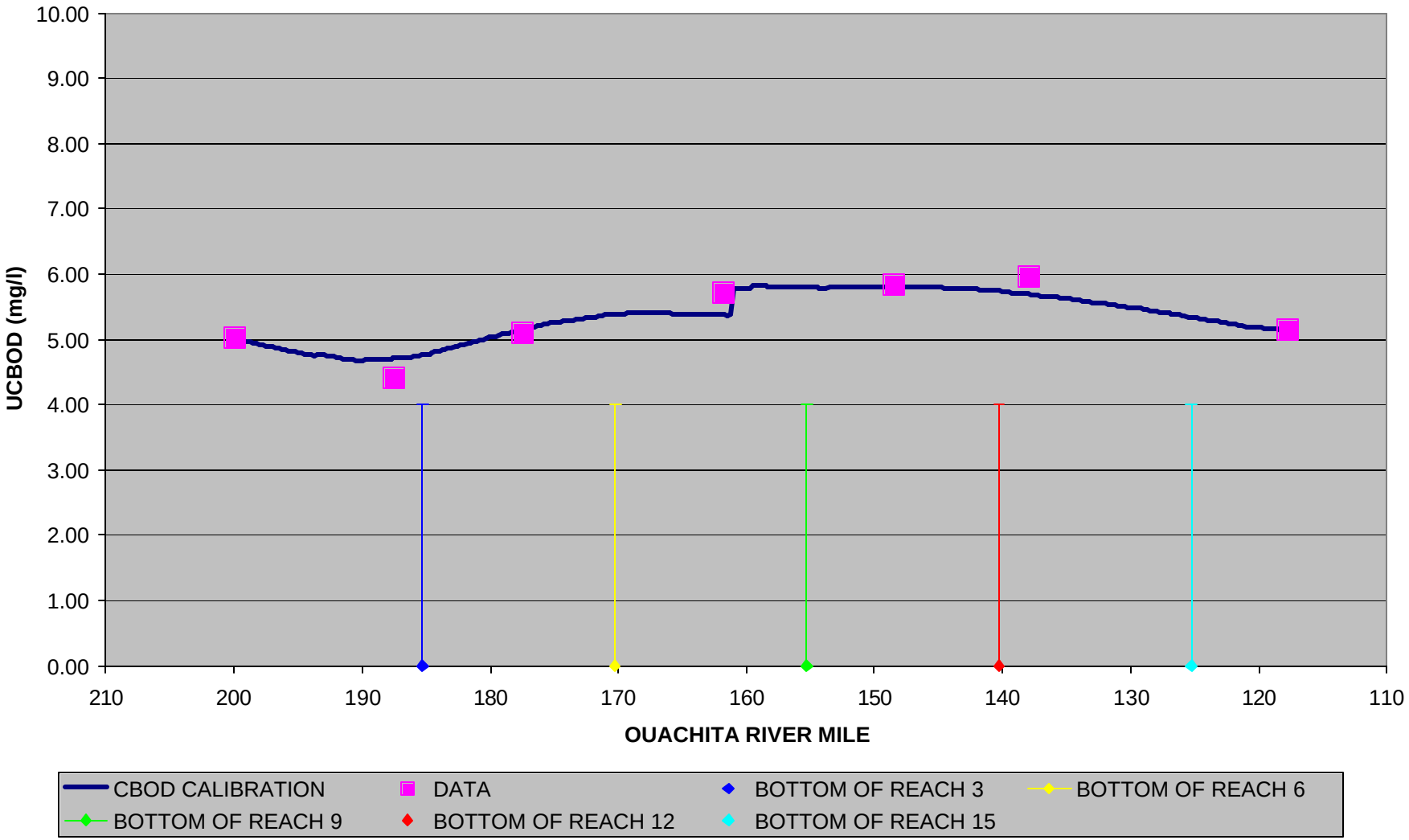
LOWER OUACHITA RIVER SURVEY TIME OF TRAVEL



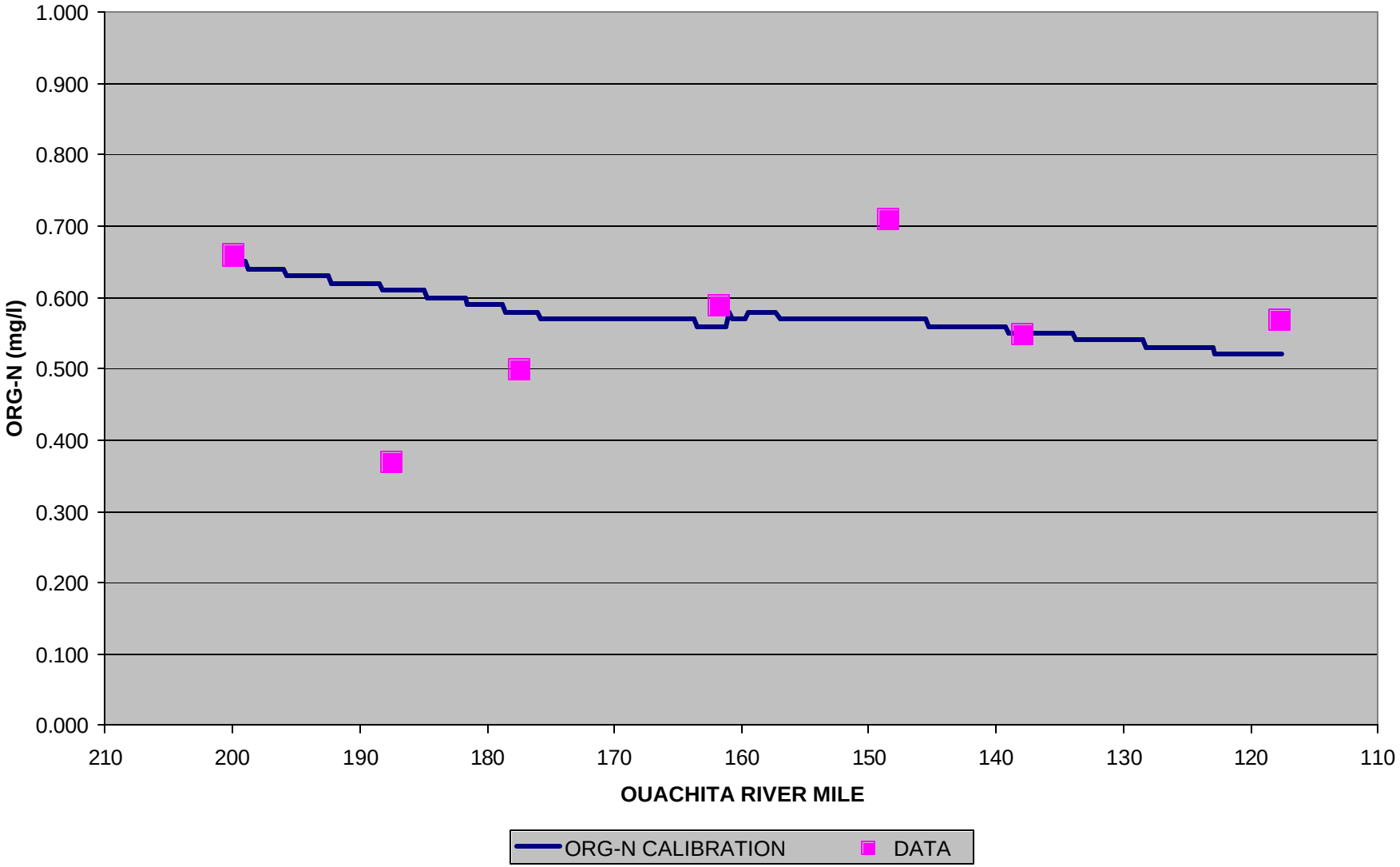
LOWER OUACHITA RIVER DO CALIBRATION



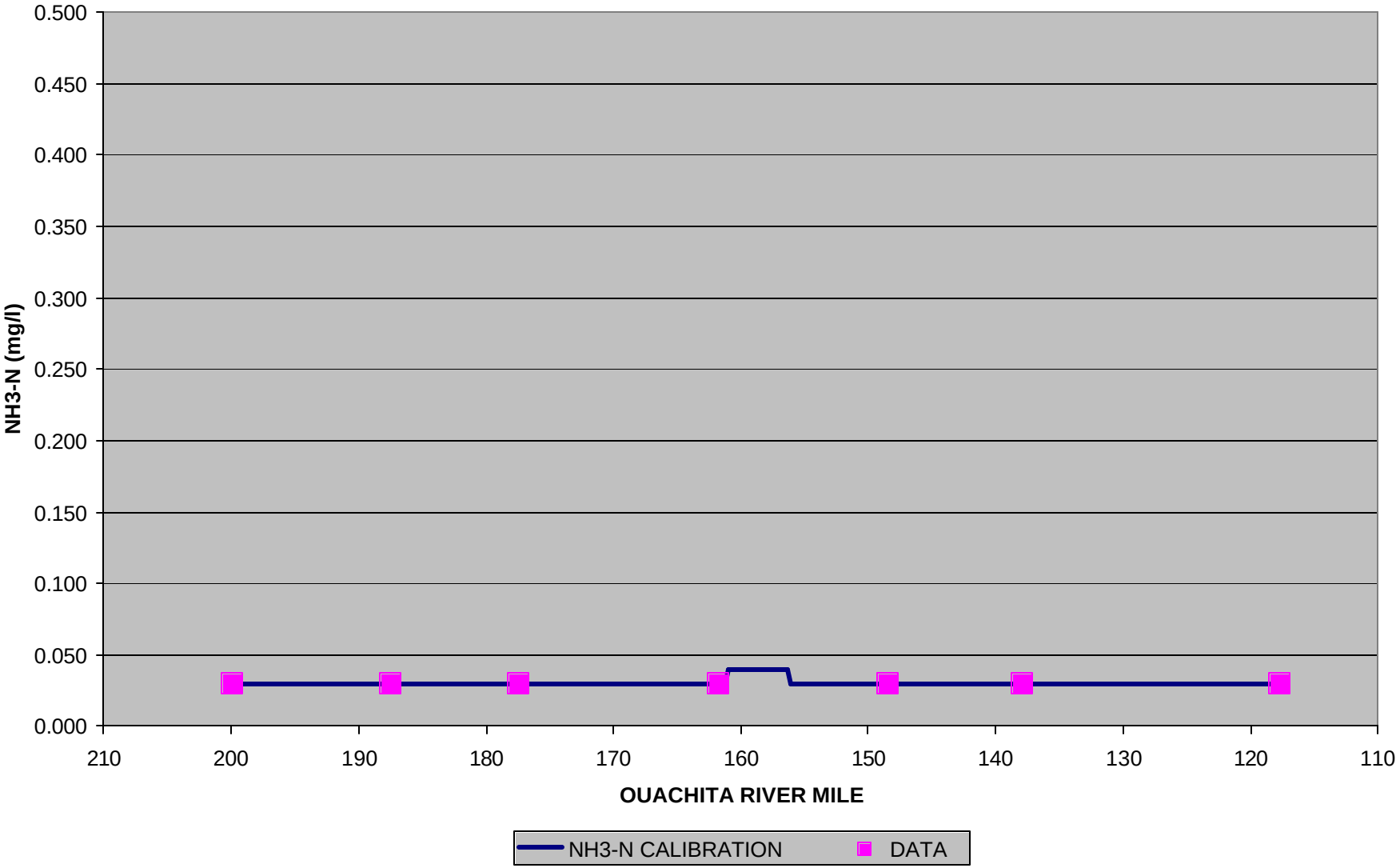
LOWER OUACHITA RIVER CBOD CALIBRATION



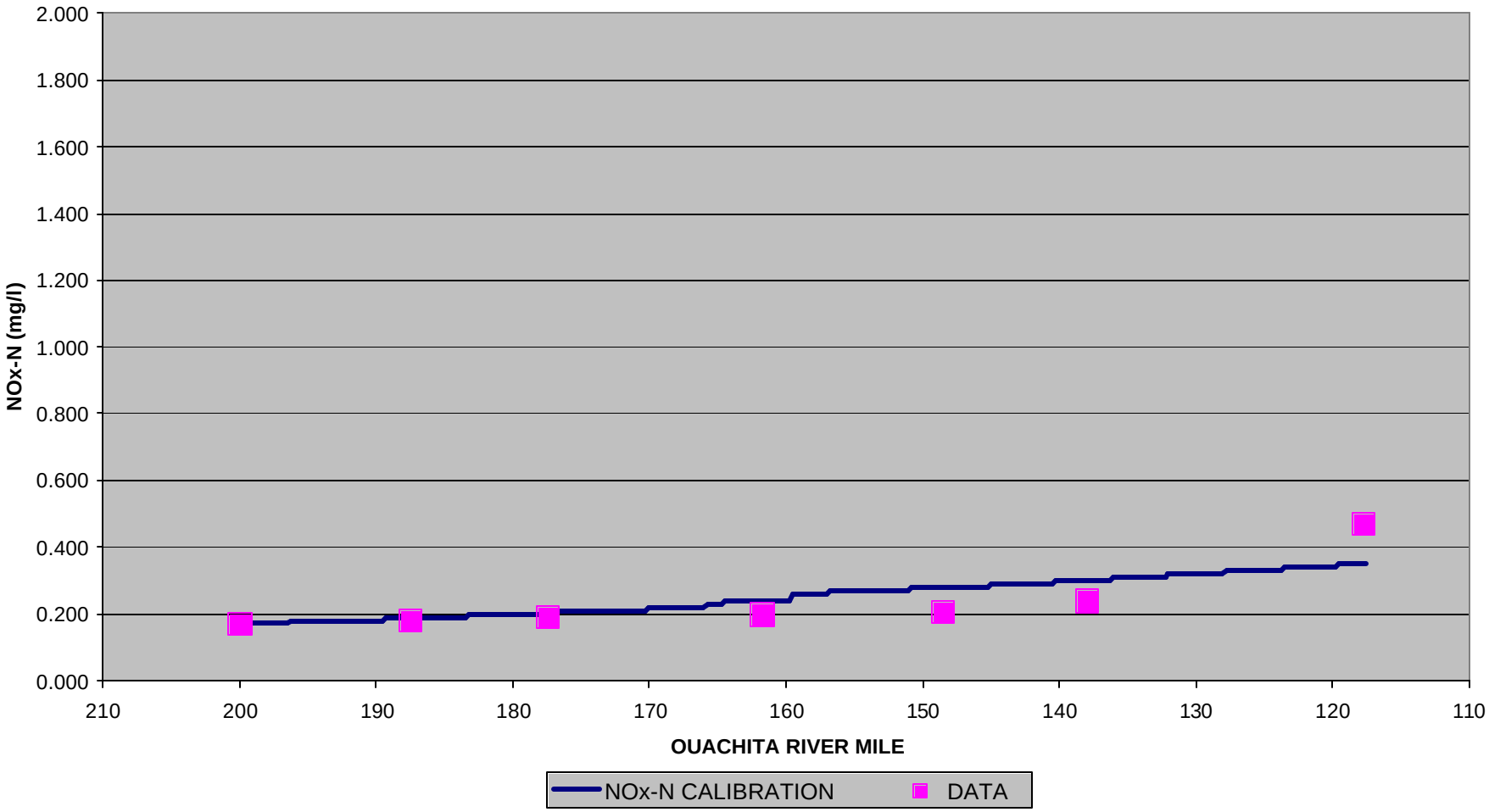
LOWER OUACHITA RIVER ORGANIC NITROGEN CALIBRATION



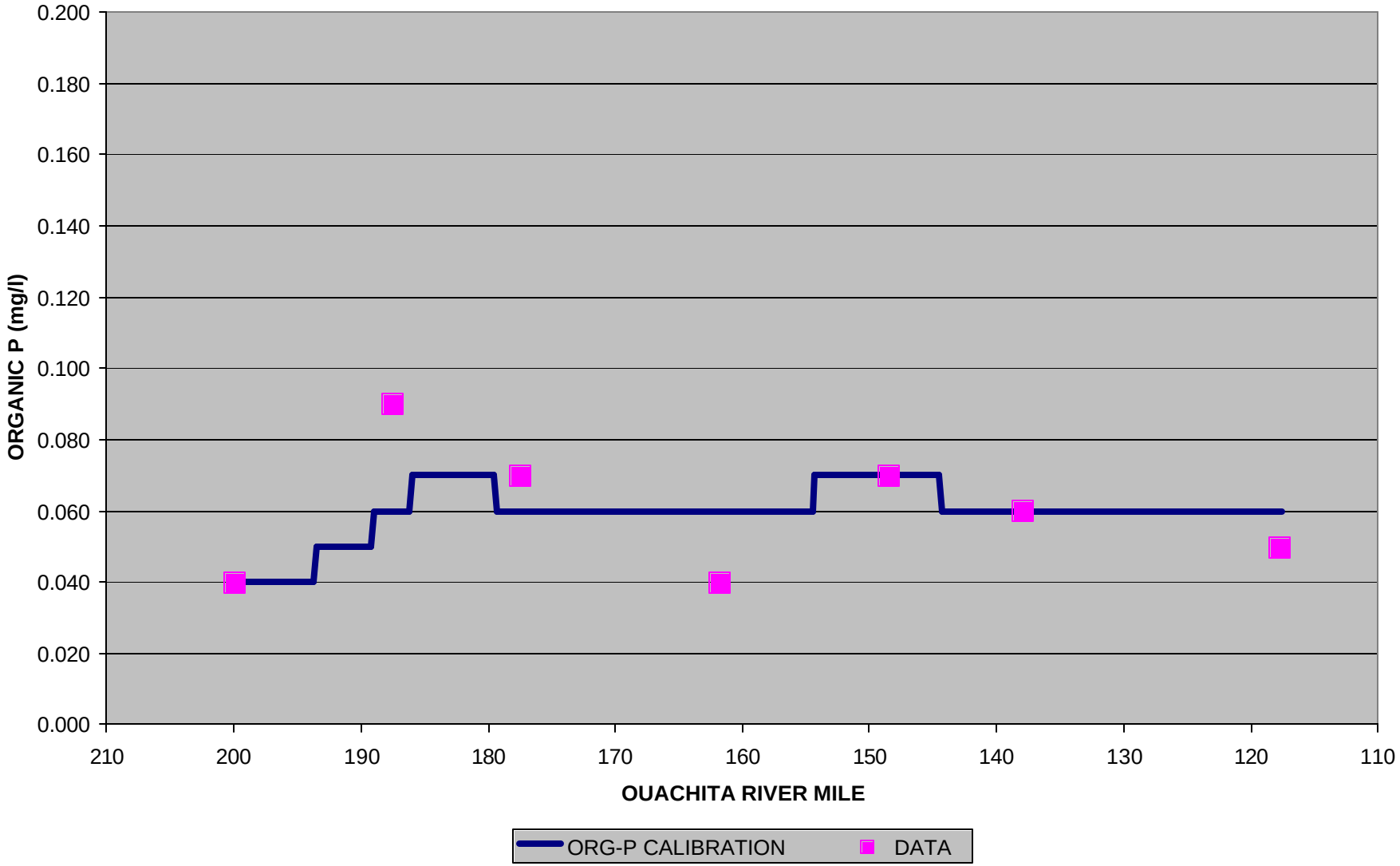
LOWER OUACHITA RIVER AMMONIA NITROGEN CALIBRATION



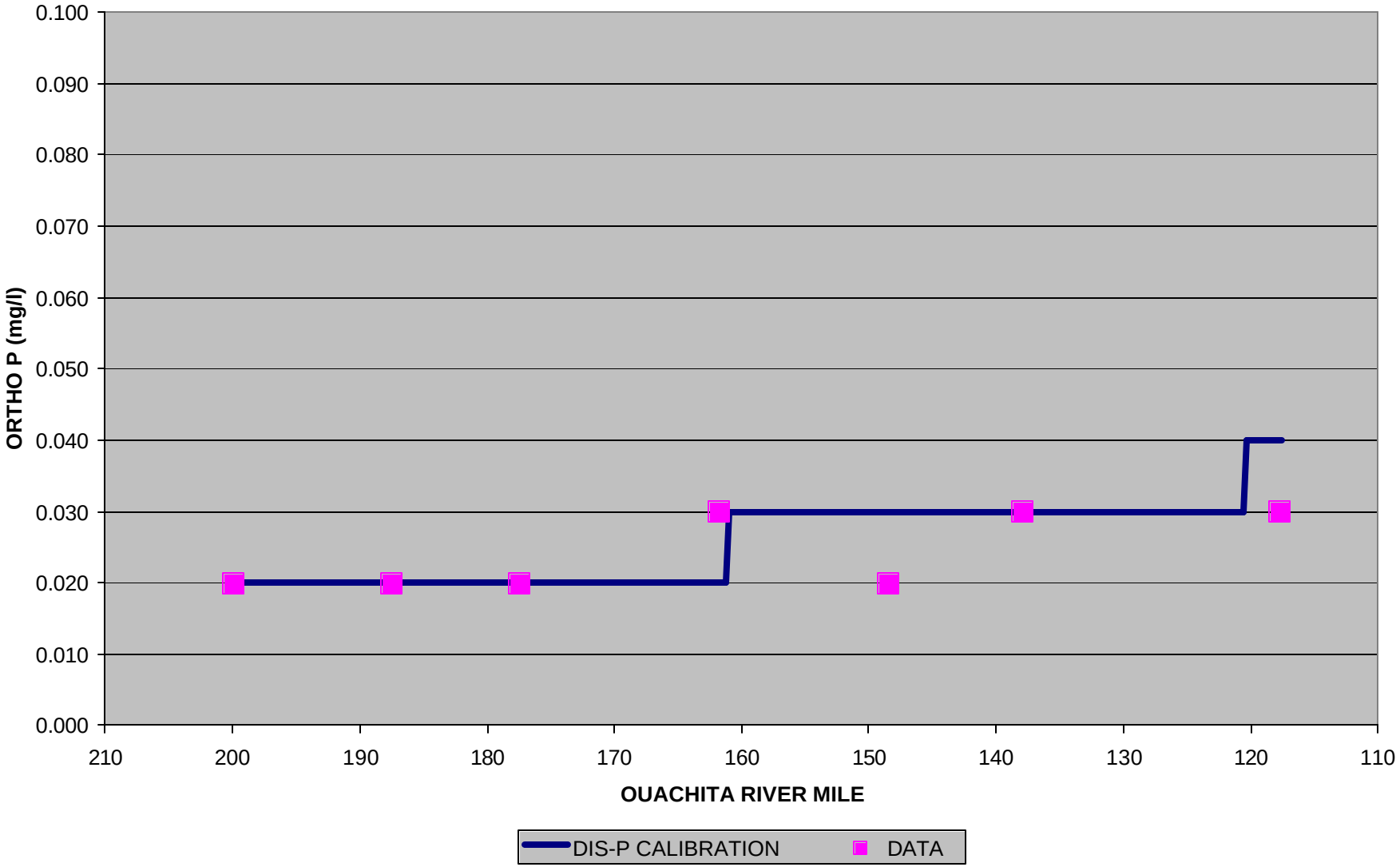
LOWER OUACHITA RIVER NO_2 + NO_3 NITROGEN CALIBRATION



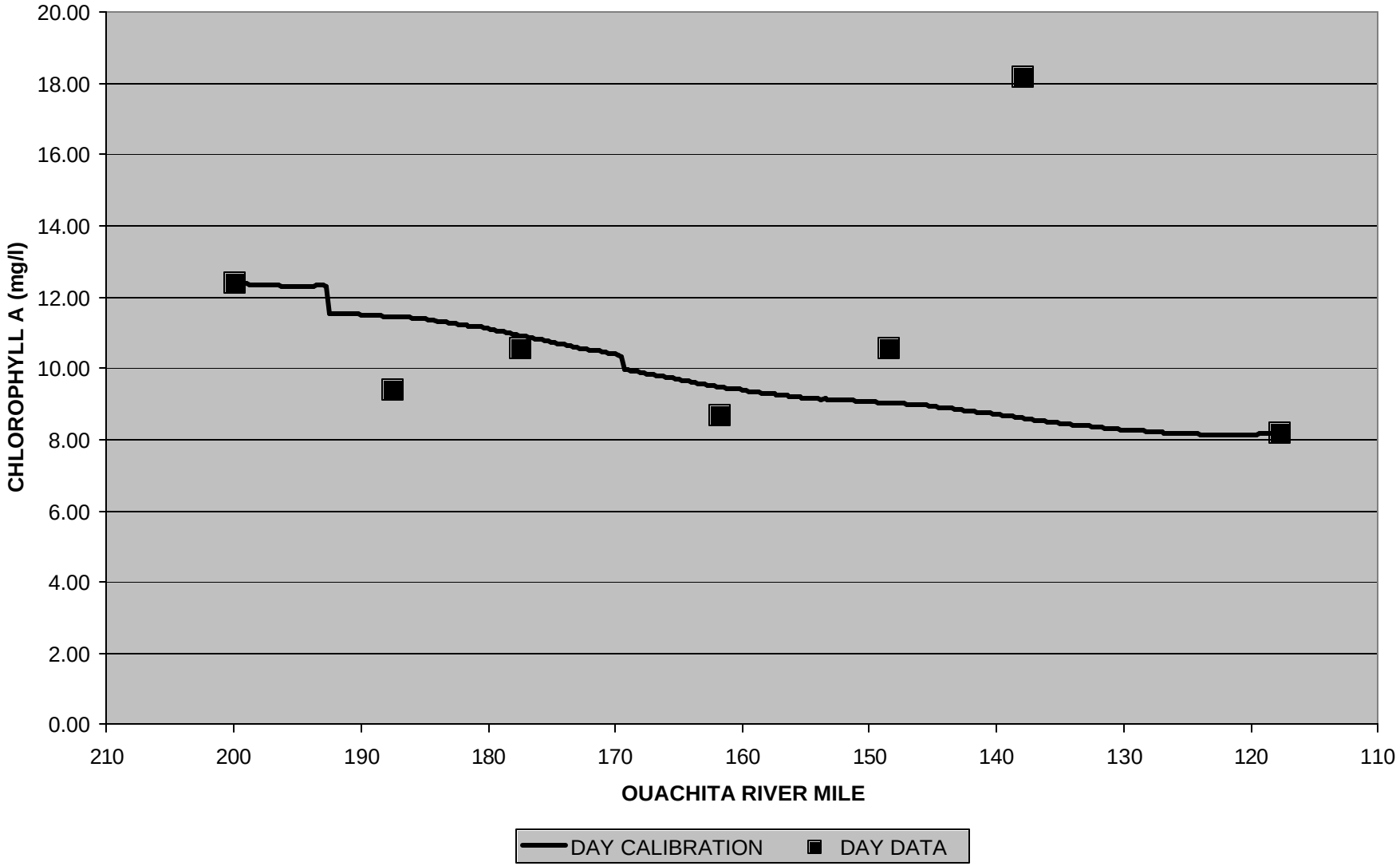
LOWER OUACHITA RIVER ORGANIC PHOSPHATE CALIBRATION



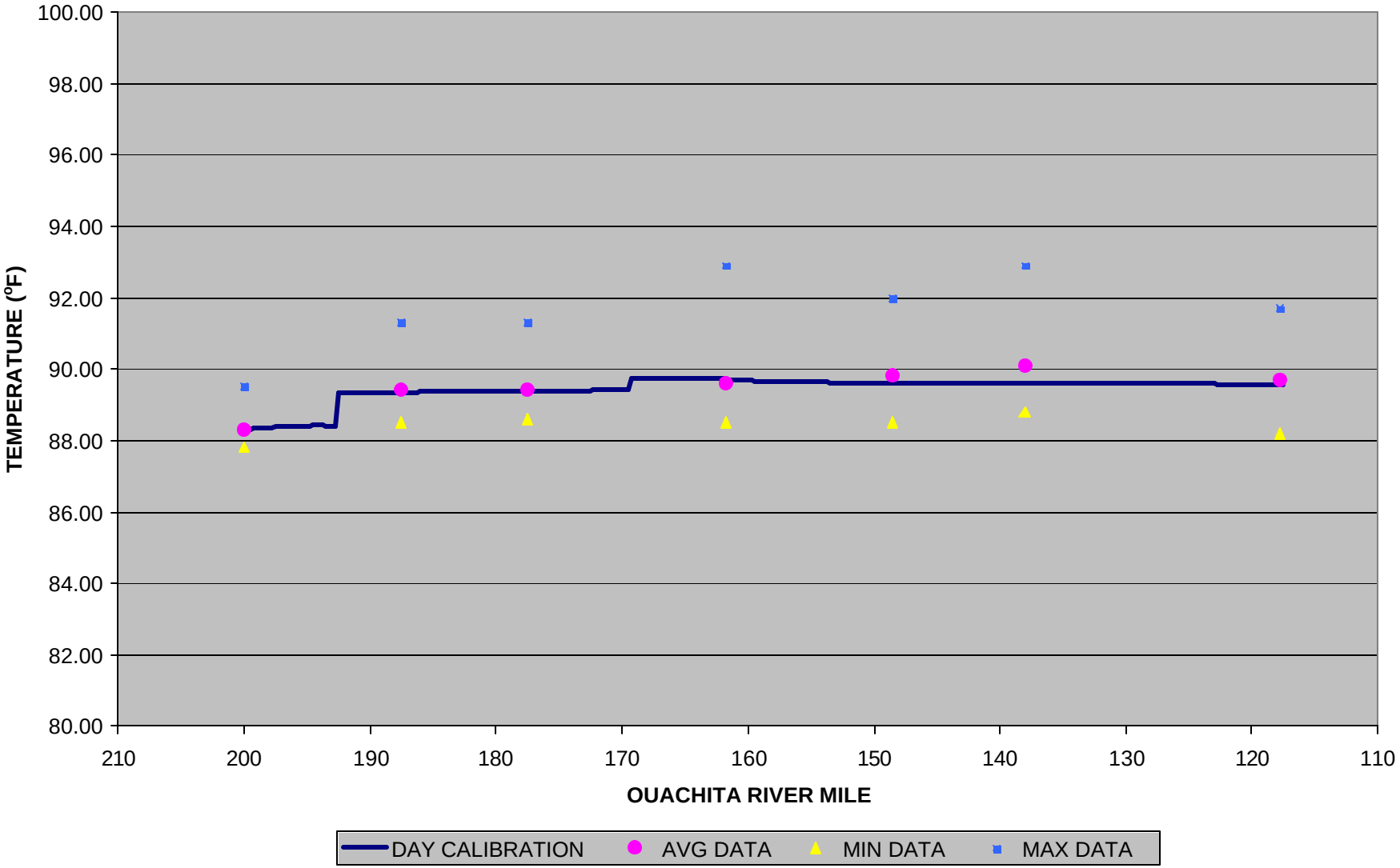
LOWER OUACHITA RIVER DISSOLVED PHOSPHATE CALIBRATION



LOWER OUACHITA RIVER CHLOROPHYLL-A CALIBRATION



LOWER OUACHITA RIVER TEMPERATURE CALIBRATION



APPENDIX F - CALIBRATION OUTPUT FILE

```
                                    * * * QUAL-2E  STREAM QUALITY ROUTING MODEL * * *
                                                Version 3.21  -  Feb. 1995

 $$$ (PROBLEM TITLES) $$$

CARD TYPE                              QUAL-2E PROGRAM TITLES
TITLE01             LOWER OUACHITA RIVER CALIBRATION - STEADY STATE WQ RUN
TITLE02
TITLE03  YES        CONSERVATIVE MINERAL I     CHLO IN MG/L
TITLE04  YES        CONSERVATIVE MINERAL II    COND IN MG/L
TITLE05  NO         CONSERVATIVE MINERAL III
TITLE06  YES        TEMPERATURE
TITLE07  YES        BIOCHEMICAL OXYGEN DEMAND
TITLE08  YES        ALGAE AS CHL-A IN UG/L
TITLE09  YES        PHOSPHORUS CYCLE AS P IN MG/L
TITLE10               (ORGANIC-P; DISSOLVED-P)
TITLE11  YES        NITROGEN CYCLE AS N IN MG/L
TITLE12               (ORGANIC-N; AMMONIA-N; NITRITE-N;' NITRATE-N)
TITLE13  YES        DISSOLVED OXYGEN IN MG/L
TITLE14  NO         FECAL COLIFORM IN NO./100 ML
TITLE15  NO         ARBITRARY NON-CONSERVATIVE
ENDTITLE

 $$$ DATA TYPE 1 (CONTROL DATA) $$$

CARD TYPE                                    CARD TYPE
LIST DATA INPUT             0.00000                                  0.00000
WRITE OPTIONAL SUMMARY      0.00000                                  0.00000
NO FLOW AUGMENTATION        0.00000                                  0.00000
STEADY STATE                0.00000                                  0.00000
NO TRAP CHANNELS            0.00000                                  0.00000
NO PRINT LCD/SOLAR DATA     0.00000                                  0.00000
NO PLOT DO AND BOD DATA     0.00000                                  0.00000
FIXED DNSTM CONC (YES=1)=   0.00000         5D-ULT BOD CONV K COEF  =   0.23000
INPUT METRIC            =   0.00000         OUTPUT METRIC           =   0.00000
NUMBER OF REACHES       =  17.00000         NUMBER OF JUNCTIONS     =   0.00000
NUM OF HEADWATERS       =   1.00000         NUMBER OF POINT LOADS   =  17.00000
TIME STEP (HOURS)       =   1.00000         LNTH. COMP. ELEMENT (DX)=   0.25000
MAXIMUM ROUTE TIME (HRS)= 450.00000         TIME INC. FOR RPT2 (HRS)=   3.00000
LATITUDE OF BASIN (DEG) =  32.50000         LONGITUDE OF BASIN (DEG)=  92.00000
STANDARD MARIDIAN (DEG) =  90.00000         DAY OF YEAR START TIME  = 199.00000
EVAP. COEF.,(AE)        =   0.00143         EVAP. COEF.,(BE)        =   0.00027
ELEV. OF BASIN (ELEV)   =  54.00000         DUST ATTENUATION COEF.  =   0.13000
ENDATA1                     0.00000                                  0.00000

 $$$ DATA TYPE 1A (ALGAE PRODUCTION AND NITROGEN OXIDATION CONSTANTS) $$$

CARD TYPE                                        CARD TYPE
O UPTAKE BY NH3 OXID(MG O/MG N)=    3.4300       O UPTAKE BY NO2 OXID(MG O/MG N)=    1.1400
O PROD  BY ALGAE (MG O/MG A)   =    1.8000       O UPTAKE BY ALGAE (MG O/MG A)  =    2.3000
N CONTENT OF ALGAE (MG N/MG A) =    0.0900       P CONTENT OF ALGAE (MG O/MG A) =    0.0150
ALG MAX SPEC GROWTH RATE(1/DAY)=    2.1000       ALGAE RESPIRATION RATE (1/DAY) =    0.0500
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N HALF SATURATION CONST (MG/L) =    0.2000          P HALF SATURATION CONST (MG/L) =    0.0400
LIN ALG SHADE CO (1/FT-UGCHA/L=)    0.0027          NLIN SHADE(1/FT-(UGCHA/L)**2/3)=    0.0165
LIGHT FUNCTION OPTION (LFNOPT) =    1.0000          LIGHT SAT'N COEF (BTU/FT2-MIN) =    0.0660
DAILY AVERAGING OPTION (LAVOPT)=    3.0000          LIGHT AVERAGING FACTOR (AFACT) =    0.9200
NUMBER OF DAYLIGHT HOURS (DLH) =   14.0000          TOTAL DAILY SOLR RAD (BTU/FT-2)= 1300.0000
ALGY GROWTH CALC OPTION(LGROPT)=    1.0000          ALGAL PREF FOR NH3-N (PREFN)   =    0.5000
ALG/TEMP SOLR RAD FACTOR(TFACT)=    0.4400          NITRIFICATION INHIBITION COEF  =    0.6000
ENDATA1A                            0.0000                                              0.0000

 $$$ DATA TYPE 1B (TEMPERATURE CORRECTION CONSTANTS FOR RATE COEFFICIENTS) $$$

CARD TYPE     RATE CODE     THETA VALUE

THETA( 1)      BOD DECA        1.047     USER
THETA( 2)      BOD SETT        1.024     USER
THETA( 3)      OXY TRAN        1.024     USER
THETA( 4)      SOD RATE        1.065     USER
THETA( 5)      ORGN DEC        1.047     USER
THETA( 6)      ORGN SET        1.024     USER
THETA( 7)      NH3 DECA        1.070     USER
THETA( 8)      NH3 SRCE        1.074     USER
THETA( 9)      NO2 DECA        1.047     USER
THETA(10)      PORG DEC        1.047     USER
THETA(11)      PORG SET        1.024     USER
THETA(12)      DISP SRC        1.074     USER
THETA(13)      ALG GROW        1.047     USER
THETA(14)      ALG RESP        1.047     USER
THETA(15)      ALG SETT        1.024     USER
THETA(16)      COLI DEC        1.047     DFLT
THETA(17)      ANC DECA        1.000     DFLT
THETA(18)      ANC SETT        1.024     DFLT
THETA(19)      ANC SRCE        1.000     DFLT
ENDATA1B

 $$$ DATA TYPE 2 (REACH IDENTIFICATION) $$$

CARD TYPE           REACH ORDER AND IDENT              R. MI/KM           R. MI/KM
STREAM REACH     1.0  RCH=        REACH 1    FROM        200.4    TO         195.4
STREAM REACH     2.0  RCH=        REACH 2    FROM        195.4    TO         190.4
STREAM REACH     3.0  RCH=        REACH 3    FROM        190.4    TO         185.4
STREAM REACH     4.0  RCH=        REACH 4    FROM        185.4    TO         180.4
STREAM REACH     5.0  RCH=        REACH 5    FROM        180.4    TO         175.4
STREAM REACH     6.0  RCH=        REACH 6    FROM        175.4    TO         170.4
STREAM REACH     7.0  RCH=        REACH 7    FROM        170.4    TO         165.4
STREAM REACH     8.0  RCH=        REACH 8    FROM        165.4    TO         160.4
STREAM REACH     9.0  RCH=        REACH 9    FROM        160.4    TO         155.4
STREAM REACH    10.0  RCH=        REACH 10   FROM        155.4    TO         150.4
STREAM REACH    11.0  RCH=        REACH 11   FROM        150.4    TO         145.4
STREAM REACH    12.0  RCH=        REACH 12   FROM        145.4    TO         140.4
STREAM REACH    13.0  RCH=        REACH 13   FROM        140.4    TO         135.4
STREAM REACH    14.0  RCH=        REACH 14   FROM        135.4    TO         130.4
STREAM REACH    15.0  RCH=        REACH 15   FROM        130.4    TO         125.4
STREAM REACH    16.0  RCH=        REACH 16   FROM        125.4    TO         120.4
```

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STREAM REACH    17.0  RCH=        REACH 17   FROM        120.4    TO         117.4
ENDATA2          0.0                                     0.0                  0.0

 $$$ DATA TYPE 3 (TARGET LEVEL DO AND FLOW AUGMENTATION SOURCES) $$$

CARD TYPE                  REACH  AVAIL HDWS TARGET     ORDER OF AVAIL SOURCES
ENDATA3                     0.        0.       0.0   0.   0.   0.   0.   0.   0.

 $$$ DATA TYPE 4 (COMPUTATIONAL REACH FLAG FIELD) $$$

CARD TYPE        REACH ELEMENTS/REACH             COMPUTATIONAL FLAGS
FLAG FIELD        1.       20.          1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        2.       20.          2.2.2.2.2.2.2.6.7.6.7.6.2.2.6.2.6.2.2.2.
FLAG FIELD        3.       20.          2.2.2.2.6.2.2.2.2.6.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        4.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        5.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        6.       20.          2.2.2.2.2.2.2.2.2.6.2.2.2.2.6.2.2.2.2.2.
FLAG FIELD        7.       20.          2.2.2.7.6.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        8.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.6.2.2.
FLAG FIELD        9.       20.          2.2.2.6.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       10.       20.          2.2.2.2.2.2.2.6.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       11.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       12.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       13.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       14.       20.          2.2.2.2.2.2.2.6.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       15.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       16.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       17.       12.          2.2.2.2.2.2.2.2.2.2.2.2.5.0.0.0.0.0.0.0.
ENDATA4           0.        0.          0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.

 $$$ DATA TYPE 5 (HYDRAULIC DATA FOR DETERMINING VELOCITY AND DEPTH) $$$

CARD TYPE        REACH  COEF-DSPN  COEFQV    EXPOQV    COEFQH   EXPOQH     CMANN
HYDRAULICS        1.     30.00     0.000     0.979    14.000     0.016     0.035
HYDRAULICS        2.     30.00     0.000     0.984    13.300     0.014     0.035
HYDRAULICS        3.     30.00     0.000     0.979    12.400     0.012     0.035
HYDRAULICS        4.     30.00     0.000     0.982    16.100     0.015     0.035
HYDRAULICS        5.     30.00     0.000     0.986    21.200     0.009     0.035
HYDRAULICS        6.     30.00     0.000     0.992    21.700     0.005     0.035
HYDRAULICS        7.     30.00     0.000     0.993    21.700     0.003     0.035
HYDRAULICS        8.     30.00     0.000     0.995    21.600     0.003     0.035
HYDRAULICS        9.     30.00     0.000     0.996    21.600     0.001     0.035
HYDRAULICS       10.     30.00     0.000     0.996    21.100     0.002     0.035
HYDRAULICS       11.     30.00     0.000     0.997    20.900     0.002     0.035
HYDRAULICS       12.     30.00     0.000     0.998    26.500     0.001     0.035
HYDRAULICS       13.     30.00     0.000     0.998    32.300     0.001     0.035
HYDRAULICS       14.     30.00     0.000     0.999    29.800     0.001     0.035
HYDRAULICS       15.     30.00     0.000     0.999    27.300     0.000     0.035
HYDRAULICS       16.     30.00     0.000     0.999    24.700     0.000     0.035
HYDRAULICS       17.     30.00     0.000     1.000    22.500     0.000     0.035
ENDATA5           0.      0.00     0.000     0.000     0.000     0.000     0.000

 $$$ DATA TYPE 5A (STEADY STATE TEMPERATURE AND CLIMATOLOGY DATA) $$$
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CARD TYPE	REACH	ELEVATION	DUST COEF	CLOUD COVER	DRY BULB TEMP	WET BULB TEMP	ATM PRESSURE	WIND	SOLAR RAD ATTENUATION
TEMP/LCD	1.	54.00	0.13	0.20	82.90	74.70	30.00	2.20	1.00
TEMP/LCD	2.	54.00	0.13	0.20	82.90	74.70	30.00	2.20	1.00
TEMP/LCD	3.	54.00	0.13	0.20	82.90	74.70	30.00	2.20	1.00
TEMP/LCD	4.	54.00	0.13	0.20	82.90	74.70	30.00	2.20	1.00
TEMP/LCD	5.	54.00	0.13	0.20	82.90	74.70	30.00	2.20	1.00
TEMP/LCD	6.	54.00	0.13	0.20	82.90	74.70	30.00	2.20	1.00
TEMP/LCD	7.	54.00	0.13	0.20	82.90	74.70	30.00	2.20	1.00
TEMP/LCD	8.	54.00	0.13	0.20	82.90	74.70	30.00	2.20	1.00
TEMP/LCD	9.	54.00	0.13	0.20	82.90	74.70	30.00	2.20	1.00
TEMP/LCD	10.	54.00	0.13	0.20	82.90	74.70	30.00	2.20	1.00
TEMP/LCD	11.	54.00	0.13	0.20	82.90	74.70	30.00	2.20	1.00
TEMP/LCD	12.	54.00	0.13	0.20	82.90	74.70	30.00	2.20	1.00
TEMP/LCD	13.	54.00	0.13	0.20	82.90	74.70	30.00	2.20	1.00
TEMP/LCD	14.	54.00	0.13	0.20	82.90	74.70	30.00	2.20	1.00
TEMP/LCD	15.	54.00	0.13	0.20	82.90	74.70	30.00	2.20	1.00
TEMP/LCD	16.	54.00	0.13	0.20	82.90	74.70	30.00	2.20	1.00
TEMP/LCD	17.	54.00	0.13	0.20	82.90	74.70	30.00	2.20	1.00
ENDATA5A	0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 6 (REACTION COEFFICIENTS FOR DEOXYGENATION AND REAERATION) $$$

CARD TYPE	REACH	K1	K3	SOD RATE	K2OPT	K2	COEQK2 TSIV COEF FOR OPT 8	OR OR	EXPQK2 SLOPE FOR OPT 8
REACT COEF	1.	0.03	0.00	0.000	1.	0.16	0.000		0.00000
REACT COEF	2.	0.03	0.00	0.000	1.	0.19	0.000		0.00000
REACT COEF	3.	0.03	0.00	0.000	1.	0.22	0.000		0.00000
REACT COEF	4.	0.03	0.00	0.000	1.	0.13	0.000		0.00000
REACT COEF	5.	0.03	0.00	0.000	1.	0.11	0.000		0.00000
REACT COEF	6.	0.03	0.00	0.000	1.	0.11	0.000		0.00000
REACT COEF	7.	0.03	0.00	0.010	1.	0.11	0.000		0.00000
REACT COEF	8.	0.03	0.00	0.010	1.	0.11	0.000		0.00000
REACT COEF	9.	0.03	0.00	0.010	1.	0.11	0.000		0.00000
REACT COEF	10.	0.03	0.00	0.010	1.	0.11	0.000		0.00000
REACT COEF	11.	0.03	0.00	0.010	1.	0.12	0.000		0.00000
REACT COEF	12.	0.03	0.00	0.010	1.	0.09	0.000		0.00000
REACT COEF	13.	0.03	0.00	0.010	1.	0.08	0.000		0.00000
REACT COEF	14.	0.03	0.00	0.010	1.	0.08	0.000		0.00000
REACT COEF	15.	0.03	0.00	0.010	1.	0.09	0.000		0.00000
REACT COEF	16.	0.03	0.00	0.010	1.	0.10	0.000		0.00000
REACT COEF	17.	0.03	0.00	0.010	1.	0.11	0.000		0.00000
ENDATA6	0.	0.00	0.00	0.000	0.	0.00	0.000		0.00000

$$$ DATA TYPE 6A (NITROGEN AND PHOSPHORUS CONSTANTS) $$$

CARD TYPE	REACH	CKNH2	SETNH2	CKNH3	SNH3	CKNO2	CKPORG	SETPORG	SPO4
N AND P COEF	1.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	2.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	3.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	4.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00

N AND P COEF	5.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	6.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	7.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	8.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	9.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	10.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	11.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	12.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	13.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	14.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	15.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	16.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	17.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
ENDATA6A	0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 6B (ALGAE/OTHER COEFFICIENTS) $$$

CARD TYPE	REACH	ALPHAO	ALGSET	EXCOEF	CK5 CKCOLI	CKANC	SETANC	SRCANC
ALG/OTHER COEF	1.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ALG/OTHER COEF	2.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ALG/OTHER COEF	3.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	4.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	5.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	6.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	7.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	8.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	9.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	10.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	11.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	12.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	13.	50.00	0.05	0.82	0.00	0.00	0.00	0.00
ALG/OTHER COEF	14.	50.00	0.05	0.82	0.00	0.00	0.00	0.00
ALG/OTHER COEF	15.	50.00	0.05	0.82	0.00	0.00	0.00	0.00
ALG/OTHER COEF	16.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ALG/OTHER COEF	17.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ENDATA6B	0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 7 (INITIAL CONDITIONS) $$$

CARD TYPE	REACH	TEMP	D.O.	BOD	CM-1	CM-2	CM-3	ANC	COLI
INITIAL COND-1	1.	88.30	5.87	4.54	9.90	106.00	0.00	0.00	0.00
INITIAL COND-1	2.	88.30	5.87	4.54	9.90	106.00	0.00	0.00	0.00
INITIAL COND-1	3.	89.40	5.05	4.51	10.40	104.00	0.00	0.00	0.00
INITIAL COND-1	4.	89.40	5.05	4.51	10.40	104.00	0.00	0.00	0.00
INITIAL COND-1	5.	89.40	5.78	5.12	10.90	88.00	0.00	0.00	0.00
INITIAL COND-1	6.	89.40	5.78	5.12	10.90	88.00	0.00	0.00	0.00
INITIAL COND-1	7.	89.60	5.31	5.73	14.00	119.00	0.00	0.00	0.00
INITIAL COND-1	8.	89.60	5.31	5.73	14.00	119.00	0.00	0.00	0.00
INITIAL COND-1	9.	89.60	5.31	5.73	14.00	119.00	0.00	0.00	0.00
INITIAL COND-1	10.	89.80	5.34	5.84	16.50	137.00	0.00	0.00	0.00
INITIAL COND-1	11.	89.80	5.34	5.84	16.50	137.00	0.00	0.00	0.00
INITIAL COND-1	12.	89.80	5.34	5.84	16.50	137.00	0.00	0.00	0.00

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INITIAL COND-1       13.     90.10      5.46      6.12     24.90    156.00      0.00      0.00      0.00
INITIAL COND-1       14.     90.10      5.46      6.12     24.90    156.00      0.00      0.00      0.00
INITIAL COND-1       15.     90.10      5.46      6.12     24.90    156.00      0.00      0.00      0.00
INITIAL COND-1       16.     89.70      4.53      5.16     16.90    135.00      0.00      0.00      0.00
INITIAL COND-1       17.     89.70      4.53      5.16     16.90    135.00      0.00      0.00      0.00
ENDATA7               0.      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 7A (INITIAL CONDITIONS FOR CHOROPHYLL A, NITROGEN, AND PHOSPHORUS) $$$

CARD TYPE           REACH     CHL-A     ORG-N     NH3-N     NO2-N     NO3-N     ORG-P     DIS-P
INITIAL COND-2        1.     12.40      0.67      0.01      0.00      0.17      0.04      0.02
INITIAL COND-2        2.     12.40      0.67      0.01      0.00      0.17      0.04      0.02
INITIAL COND-2        3.      9.40      0.38      0.01      0.00      0.18      0.09      0.02
INITIAL COND-2        4.      9.40      0.38      0.01      0.00      0.18      0.09      0.02
INITIAL COND-2        5.     10.60      0.51      0.01      0.00      0.19      0.07      0.02
INITIAL COND-2        6.     10.60      0.51      0.01      0.00      0.19      0.07      0.02
INITIAL COND-2        7.      8.70      0.60      0.01      0.00      0.20      0.04      0.03
INITIAL COND-2        8.      8.70      0.60      0.01      0.00      0.20      0.04      0.03
INITIAL COND-2        9.      8.70      0.60      0.01      0.00      0.20      0.04      0.03
INITIAL COND-2       10.     10.60      0.72      0.01      0.00      0.21      0.07      0.02
INITIAL COND-2       11.     10.60      0.72      0.01      0.00      0.21      0.07      0.02
INITIAL COND-2       12.     10.60      0.72      0.01      0.00      0.21      0.07      0.02
INITIAL COND-2       13.     18.20      0.56      0.01      0.00      0.24      0.06      0.03
INITIAL COND-2       14.     18.20      0.56      0.01      0.00      0.24      0.06      0.03
INITIAL COND-2       15.     18.20      0.56      0.01      0.00      0.24      0.06      0.03
INITIAL COND-2       16.      8.20      0.58      0.01      0.00      0.47      0.05      0.03
INITIAL COND-2       17.      8.20      0.58      0.01      0.00      0.47      0.05      0.03
ENDATA7A              0.      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 8 (INCREMENTAL INFLOW CONDITIONS) $$$

CARD TYPE           REACH      FLOW      TEMP      D.O.       BOD      CM-1      CM-2      CM-3       ANC      COLI
INCR INFLOW-1         1.    50.000     88.30      5.87      0.00      9.90    105.90      0.00      0.00      0.00
INCR INFLOW-1         2.    50.000     88.30      5.87      0.00      9.90    105.90      0.00      0.00      0.00
INCR INFLOW-1         3.    50.000     89.40      5.05     20.00     10.40    103.60      0.00      0.00      0.00
INCR INFLOW-1         4.    50.000     89.40      5.05     40.00     10.40    103.60      0.00      0.00      0.00
INCR INFLOW-1         5.    50.000     89.40      5.78     45.00     10.90     88.10      0.00      0.00      0.00
INCR INFLOW-1         6.    50.000     89.40      5.78     40.00     10.90     88.10      0.00      0.00      0.00
INCR INFLOW-1         7.    50.000     89.60      5.31     30.00     14.00    118.50      0.00      0.00      0.00
INCR INFLOW-1         8.    50.000     89.60      5.31     30.00     14.00    118.50      0.00      0.00      0.00
INCR INFLOW-1         9.    50.000     89.60      5.31     30.00     14.00    118.50      0.00      0.00      0.00
INCR INFLOW-1        10.    50.000     89.80      5.34     30.00     16.50    136.70      0.00      0.00      0.00
INCR INFLOW-1        11.    23.000     89.80      5.34     55.00     16.50    136.70      0.00      0.00      0.00
INCR INFLOW-1        12.    23.000     89.80      5.34     55.00     16.50    136.70      0.00      0.00      0.00
INCR INFLOW-1        13.    23.000     90.10      5.46     53.00     24.90    155.70      0.00      0.00      0.00
INCR INFLOW-1        14.    23.000     90.10      5.46     48.00     24.90    155.70      0.00      0.00      0.00
INCR INFLOW-1        15.    23.000     90.10      5.46     43.00     24.90    155.70      0.00      0.00      0.00
INCR INFLOW-1        16.    23.000     89.70      4.53     38.00     16.90    135.00      0.00      0.00      0.00
INCR INFLOW-1        17.    23.000     89.70      4.53     33.00     16.90    135.00      0.00      0.00      0.00
ENDATA8               0.     0.000      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 8A (INCREMENTAL INFLOW CONDITIONS FOR CHLOROPHYLL A, NITROGEN, AND PHOSPHORUS) $$$
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CARD TYPE	REACH	CHL-A	ORG-N	NH3-N	NO2-N	NO3-N	ORG-P	DIS-P
INCR INFLOW-2	1.	12.40	0.00	0.02	0.00	0.17	0.04	0.02
INCR INFLOW-2	2.	12.40	0.00	0.02	0.00	0.17	0.70	0.02
INCR INFLOW-2	3.	9.40	0.00	0.02	0.00	0.18	1.40	0.02
INCR INFLOW-2	4.	9.40	0.00	0.02	0.00	0.18	0.00	0.02
INCR INFLOW-2	5.	10.60	0.00	0.02	0.00	0.19	0.00	0.02
INCR INFLOW-2	6.	10.60	1.20	0.02	0.00	0.19	0.00	0.02
INCR INFLOW-2	7.	8.70	1.20	0.02	0.00	0.20	0.00	0.02
INCR INFLOW-2	8.	8.70	1.20	0.02	0.00	0.20	0.00	0.02
INCR INFLOW-2	9.	8.70	1.20	0.02	0.00	0.20	0.20	0.02
INCR INFLOW-2	10.	10.60	1.20	0.02	0.00	0.21	0.30	0.02
INCR INFLOW-2	11.	10.60	1.20	0.02	0.00	0.21	0.00	0.02
INCR INFLOW-2	12.	10.60	1.20	0.02	0.00	0.21	0.00	0.02
INCR INFLOW-2	13.	18.20	1.20	0.02	0.00	0.24	0.00	0.02
INCR INFLOW-2	14.	18.20	1.20	0.02	0.00	0.24	0.00	0.02
INCR INFLOW-2	15.	18.20	1.20	0.02	0.00	0.24	0.00	0.02
INCR INFLOW-2	16.	8.20	1.20	0.02	0.00	0.47	0.00	0.02
INCR INFLOW-2	17.	8.20	1.20	0.02	0.00	0.47	0.00	0.02
ENDATA8A	0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 9 (STREAM JUNCTIONS) $$$

CARD TYPE	JUNCTION ORDER AND IDENT	UPSTRM	JUNCTION	TRIB
ENDATA9	0.	0.	0.	0.

$$$ DATA TYPE 10 (HEADWATER SOURCES) $$$

CARD TYPE	HDWTR ORDER	NAME	FLOW	TEMP	D.O.	BOD	CM-1	CM-2	CM-3
HEADWTR-1	1.	REACH 1	3721.00	88.30	5.87	5.04	9.90	111.00	0.00
ENDATA10	0.		0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 10A (HEADWATER CONDITIONS FOR CHLOROPHYLL, NITROGEN, PHOSPHORUS, COLIFORM AND SELECTED NON-CONSERVATIVE CONSTITUENT) $$$

CARD TYPE	HDWTR ORDER	ANC	COLI	CHL-A	ORG-N	NH3-N	NO2-N	NO3-N	ORG-P	DIS-P
HEADWTR-2	1.	0.00	0.00	12.40	0.65	0.03	0.00	0.17	0.04	0.02
ENDATA10A	0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 11 (POINT SOURCE / POINT SOURCE CHARACTERISTICS) $$$

CARD TYPE	POINT LOAD ORDER	NAME	EFF	FLOW	TEMP	D.O.	BOD	CM-1	CM-2	CM-3
POINTLD-1	1.	BARTHOLOMEW	0.00	62.39	83.80	5.91	7.30	13.80	162.00	0.00
POINTLD-1	2.	OUCH POW IN	0.00	0.00	88.30	0.00	0.00	0.00	0.00	0.00
POINTLD-1	3.	OUCH POW OUT	0.00	0.00	88.30	0.00	0.00	0.00	0.00	0.00
POINTLD-1	4.	ENT STER IN	0.00	-245.04	88.30	0.00	0.00	0.00	0.00	0.00
POINTLD-1	5.	ENT STER OUT	0.00	245.04	103.50	5.67	5.00	9.90	106.00	0.00
POINTLD-1	6.	STERLINGTON	0.00	0.00	88.00	0.00	0.00	0.00	0.00	0.00
POINTLD-1	7.	KOCH OO1	0.00	1.58	86.00	2.00	10.70	40.60	458.00	0.00
POINTLD-1	8.	ANGUS 002	0.00	0.73	86.00	2.00	0.00	130.00	2854.00	0.00

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POINTLD-1      9.  B DE L'OUTRE         0.00     0.00    88.00     0.00     0.00     0.00     0.00     0.00
POINTLD-1     10.  B D'ARBONNE          0.00     0.00    88.00     0.00     0.00     0.00     0.00     0.00
POINTLD-1     11.  CHAUVIN B            0.00     2.02    86.10     4.81    20.70    28.80   274.00     0.00
POINTLD-1     12.  ENT MON IN           0.00  -142.32    89.60     0.00     0.00     0.00     0.00     0.00
POINTLD-1     13.  ENT MON OUT          0.00   142.32    99.60     5.11     5.70    14.00   119.00     0.00
POINTLD-1     14.  JUDY SLOUGH          0.00    21.62    84.10     1.75    86.40   128.00  1815.00     0.00
POINTLD-1     15.  MONROE POTW          0.00    11.12    86.00     2.00    24.30   100.00   802.00     0.00
POINTLD-1     16.  CHENERE CR           0.00    16.79    82.10     4.46    10.90     4.80    55.00     0.00
POINTLD-1     17.  CYPRESS CR           0.00     0.00    88.00     0.00     0.00     0.00     0.00     0.00
ENDATA11       0.                       0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

 $$$ DATA TYPE 11A (POINT SOURCE CHARACTERISTICS - CHLOROPHYLL A, NITROGEN, PHOSPHORUS,
                    COLIFORMS AND SELECTED NON-CONSERVATIVE CONSTITUENT) $$$

              POINT
CARD TYPE      LOAD      ANC      COLI     CHL-A     ORG-N     NH3-N     NO2-N     N03-N     ORG-P     DIS-P
              ORDER
POINTLD-2       1.      0.00      0.00     15.70      0.63      0.02      0.00      0.09      0.19      0.03
POINTLD-2       2.      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
POINTLD-2       3.      0.00      0.00      0.00      0.00      0.02      0.00      0.00      0.00      0.02
POINTLD-2       4.      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
POINTLD-2       5.      0.00      0.00      0.00      0.63      0.02      0.00      0.17      0.04      0.02
POINTLD-2       6.      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
POINTLD-2       7.      0.00      0.00      0.00      0.76      0.40      0.00      0.58      0.24      0.15
POINTLD-2       8.      0.00      0.00      0.00      8.32      0.31      0.00     34.33      0.33      0.01
POINTLD-2       9.      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
POINTLD-2      10.      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
POINTLD-2      11.      0.00      0.00     26.40      1.69      1.12      0.00      0.22      0.37      0.57
POINTLD-2      12.      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
POINTLD-2      13.      0.00      0.00      0.00      0.56      0.02      0.00      0.20      0.04      0.02
POINTLD-2      14.      0.00      0.00     12.20      2.98      1.50      0.00      0.12      0.69      0.70
POINTLD-2      15.      0.00      0.00      0.00      1.83      0.34      0.00      6.36      0.95      0.29
POINTLD-2      16.      0.00      0.00     12.00      0.73      0.02      0.00      0.03      0.05      0.01
POINTLD-2      17.      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ENDATA11A       0.      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 12 (DAM CHARACTERISTICS) $$$

                     DAM   RCH   ELE    ADAM    BDAM    FDAM    HDAM

ENDATA12               0.    0.    0.    0.00    0.00    0.00    0.00

 $$$ DATA TYPE 13 (DOWNSTREAM BOUNDARY CONDITIONS-1) $$$

     CARD TYPE               TEMP       D.O.      BOD       CM-1      CM-2      CM-3       ANC      COLI

ENDATA13                     DOWNSTREAM BOUNDARY CONCENTRATIONS ARE UNCONSTRAINED

 $$$ DATA TYPE 13A (DOWNSTREAM BOUNDARY CONDITIONS-2) $$$

     CARD TYPE               CHL-A     ORG-N     NH3-N     NO2-N     NH3-N     ORG-P     DIS-P

ENDATA13A                    DOWNSTREAM BOUNDARY CONCENTRATIONS ARE UNCONSTRAINED
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STEADY STATE TEMPERATURE SIMULATION; CONVERGENCE SUMMARY:

ITERATION	NUMBER OF NONCONVERGENT ELEMENTS
1	17
2	0

SUMMARY OF VALUES FOR STEADY STATE TEMPERATURE CALCULATIONS (SUBROUTINE HEATER):

DAILY NET SOLAR RADIATION = 2641.557 BTU/FT-2 (716.841 LANGLEYS)
NUMBER OF DAYLIGHT HOURS = 13.9

HOURLY VALUES OF SOLAR RADIATION (BTU/FT-2)

1	0.00	9	193.94	17	160.94
2	0.00	10	248.40	18	95.30
3	0.00	11	289.50	19	28.35
4	0.00	12	313.69	20	0.00
5	0.00	13	318.45	21	0.00
6	5.01	14	303.03	22	0.00
7	64.02	15	269.43	23	0.00
8	130.83	16	220.66	24	0.00

STEADY STATE ALGAE/NUTRIENT/DISSOLVED OXYGEN SIMULATION; CONVERGENCE SUMMARY:

VARIABLE	ITERATION	NUMBER OF NONCONVERGENT ELEMENTS
ALGAE GROWTH RATE	1	331
ALGAE GROWTH RATE	2	332
ALGAE GROWTH RATE	3	332
ALGAE GROWTH RATE	4	280
ALGAE GROWTH RATE	5	79
ALGAE GROWTH RATE	6	0
NITRIFICATION INHIBITION	1	0
ALGAE GROWTH RATE	7	0
NITRIFICATION INHIBITION	2	0

SUMMARY OF CONDITIONS FOR ALGAL GROWTH RATE SIMULATION:

1. LIGHT AVERAGING OPTION. LAVOPT= 3

METHOD: AVERAGE OF HOURLY SOLAR VALUES

SOURCE OF SOLAR VALUES: SUBROUTINE HEATER (SS TEMP)
DAILY NET SOLAR RADIATION: 2641.557 BTU/FT-2 (716.841 LANGLEYS)
NUMBER OF DAYLIGHT HOURS: 13.9
PHOTOSYNTHETIC ACTIVE FRACTION OF SOLAR RADIATION (TFACT): 0.44
MEAN SOLAR RADIATION ADJUSTMENT FACTOR (AFACT): N/A

HOURLY VALUES OF SOLAR RADIATION (LANGLEYS)

1	0.00	9	52.63	17	43.67
2	0.00	10	67.41	18	25.86
3	0.00	11	78.56	19	7.69
4	0.00	12	85.13	20	0.00
5	0.00	13	86.42	21	0.00
6	1.36	14	82.23	22	0.00
7	17.37	15	73.12	23	0.00
8	35.50	16	59.88	24	0.00

2. LIGHT FUNCTION OPTION: LFNOPT= 1

HALF SATURATION METHOD, WITH HALF SATURATION COEF = 0.018 LANGLEYS/MIN

3. GROWTH ATTENUATION OPTION FOR NUTRIENTS. LGROPT= 1

MULTIPLICATIVE: FL*FN*FP

TEMPERATURE ITERATION 9

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	88.31	88.31	88.32	88.32	88.33	88.33	88.34	88.34	88.35	88.35	88.36	88.37	88.37	88.38	88.38	88.39	88.39	88.40	88.40	88.41
2	88.41	88.42	88.42	88.43	88.43	88.44	88.44	88.37	88.38	88.38	88.41	89.34	89.34	89.34	89.34	89.34	89.34	89.34	89.34	89.34
3	89.34	89.34	89.34	89.35	89.35	89.35	89.35	89.35	89.35	89.35	89.35	89.35	89.35	89.35	89.35	89.35	89.35	89.36	89.36	89.36
4	89.36	89.36	89.36	89.36	89.36	89.36	89.36	89.36	89.36	89.36	89.37	89.37	89.37	89.37	89.37	89.37	89.37	89.37	89.37	89.37
5	89.37	89.37	89.37	89.38	89.38	89.38	89.38	89.38	89.38	89.38	89.38	89.38	89.38	89.38	89.38	89.38	89.38	89.39	89.39	89.39
6	89.39	89.39	89.39	89.39	89.39	89.39	89.39	89.39	89.39	89.39	89.39	89.39	89.39	89.40	89.40	89.40	89.40	89.40	89.40	89.40
7	89.40	89.40	89.40	89.41	89.75	89.75	89.75	89.75	89.75	89.75	89.75	89.74	89.74	89.74	89.74	89.74	89.74	89.74	89.73	89.73
8	89.73	89.73	89.73	89.73	89.73	89.73	89.72	89.72	89.72	89.72	89.72	89.72	89.72	89.72	89.71	89.71	89.71	89.68	89.68	89.68
9	89.68	89.68	89.68	89.67	89.67	89.67	89.66	89.66	89.66	89.66	89.66	89.66	89.66	89.66	89.66	89.66	89.66	89.66	89.65	89.65
10	89.65	89.65	89.65	89.65	89.65	89.65	89.65	89.62	89.62	89.62	89.62	89.62	89.62	89.62	89.62	89.62	89.62	89.62	89.62	89.62
11	89.61	89.61	89.61	89.61	89.61	89.61	89.61	89.61	89.61	89.61	89.61	89.61	89.61	89.61	89.61	89.61	89.61	89.61	89.61	89.61
12	89.61	89.61	89.61	89.61	89.61	89.61	89.61	89.60	89.60	89.60	89.60	89.60	89.60	89.60	89.60	89.60	89.60	89.60	89.60	89.60
13	89.60	89.60	89.60	89.60	89.60	89.60	89.60	89.60	89.60	89.60	89.60	89.60	89.60	89.60	89.60	89.60	89.60	89.60	89.60	89.60
14	89.60	89.60	89.60	89.60	89.60	89.60	89.60	89.60	89.60	89.59	89.59	89.59	89.59	89.59	89.59	89.59	89.59	89.59	89.59	89.59
15	89.59	89.59	89.59	89.59	89.59	89.59	89.59	89.59	89.59	89.59	89.59	89.59	89.59	89.59	89.59	89.59	89.59	89.59	89.59	89.59
16	89.59	89.59	89.59	89.59	89.59	89.59	89.59	89.59	89.59	89.59	89.58	89.58	89.58	89.58	89.58	89.58	89.58	89.58	89.58	89.58
17	89.58	89.58	89.58	89.58	89.58	89.58	89.58	89.58	89.58	89.58	89.58	89.58								

DISSOLVED OXYGEN IN MG/L ITERATION 9

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	5.87	5.87	5.87	5.87	5.87	5.87	5.87	5.87	5.87	5.87	5.87	5.87	5.87	5.87	5.87	5.87	5.87	5.87	5.87	5.87
2	5.87	5.87	5.87	5.88	5.88	5.88	5.88	5.88	5.88	5.89	5.89	5.87	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88
3	5.88	5.88	5.89	5.89	5.89	5.89	5.89	5.90	5.90	5.90	5.90	5.90	5.90	5.91	5.91	5.91	5.91	5.91	5.91	5.92
4	5.91	5.91	5.91	5.91	5.90	5.90	5.90	5.89	5.89	5.89	5.88	5.88	5.88	5.87	5.87	5.87	5.86	5.86	5.86	5.85
5	5.85	5.84	5.84	5.83	5.83	5.82	5.81	5.81	5.80	5.80	5.79	5.79	5.78	5.77	5.77	5.76	5.76	5.75	5.75	5.74
6	5.73	5.73	5.72	5.72	5.71	5.70	5.70	5.69	5.69	5.68	5.68	5.67	5.66	5.66	5.65	5.65	5.64	5.64	5.63	5.62
7	5.62	5.61	5.60	5.59	5.57	5.56	5.55	5.55	5.54	5.53	5.53	5.52	5.51	5.50	5.50	5.49	5.48	5.48	5.47	5.46
8	5.46	5.45	5.44	5.44	5.43	5.42	5.42	5.41	5.40	5.40	5.39	5.39	5.38	5.37	5.37	5.36	5.36	5.33	5.32	5.32
9	5.31	5.30	5.30	5.28	5.28	5.27	5.26	5.26	5.25	5.25	5.24	5.23	5.23	5.22	5.22	5.21	5.21	5.20	5.20	5.19
10	5.19	5.18	5.18	5.17	5.17	5.16	5.16	5.15	5.15	5.14	5.14	5.13	5.13	5.13	5.12	5.12	5.11	5.11	5.11	5.10
11	5.10	5.09	5.09	5.09	5.08	5.08	5.08	5.07	5.07	5.07	5.06	5.06	5.06	5.06	5.05	5.05	5.05	5.04	5.04	5.04
12	5.03	5.02	5.02	5.01	5.00	5.00	4.99	4.99	4.98	4.97	4.97	4.96	4.95	4.95	4.94	4.93	4.93	4.92	4.92	4.91
13	4.90	4.89	4.89	4.88	4.87	4.86	4.85	4.84	4.83	4.83	4.82	4.81	4.80	4.79	4.78	4.78	4.77	4.76	4.75	4.74
14	4.74	4.73	4.72	4.72	4.71	4.70	4.70	4.69	4.69	4.68	4.67	4.67	4.66	4.65	4.65	4.64	4.64	4.63	4.63	4.62
15	4.61	4.61	4.61	4.60	4.60	4.59	4.59	4.59	4.58	4.58	4.58	4.57	4.57	4.57	4.56	4.56	4.56	4.55	4.55	4.55
16	4.54	4.54	4.54	4.54	4.54	4.54	4.53	4.53	4.53	4.53	4.53	4.53	4.53	4.53	4.53	4.52	4.52	4.52	4.52	4.52
17	4.52	4.52	4.52	4.52	4.52	4.53	4.53	4.53	4.53	4.53	4.53	4.53								

BIOCHEMICAL OXYGEN DEMAND ITERATION 9

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	5.03	5.02	5.01	4.99	4.98	4.97	4.96	4.95	4.94	4.93	4.92	4.90	4.89	4.88	4.87	4.86	4.85	4.84	4.83	4.82
2	4.81	4.80	4.79	4.78	4.77	4.76	4.75	4.78	4.77	4.76	4.75	4.75	4.74	4.73	4.72	4.71	4.70	4.69	4.69	4.68
3	4.68	4.68	4.69	4.69	4.69	4.70	4.70	4.70	4.71	4.71	4.71	4.72	4.72	4.72	4.73	4.73	4.73	4.74	4.74	4.74
4	4.76	4.77	4.78	4.80	4.81	4.82	4.84	4.85	4.86	4.87	4.89	4.90	4.91	4.93	4.94	4.95	4.96	4.98	4.99	5.00
5	5.01	5.03	5.04	5.05	5.06	5.08	5.09	5.10	5.11	5.12	5.14	5.15	5.16	5.17	5.18	5.19	5.21	5.22	5.23	5.24
6	5.25	5.26	5.26	5.27	5.28	5.29	5.29	5.30	5.31	5.31	5.32	5.33	5.34	5.34	5.35	5.36	5.37	5.38	5.38	5.39
7	5.39	5.39	5.39	5.39	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.39	5.39
8	5.39	5.39	5.39	5.39	5.39	5.39	5.39	5.38	5.38	5.38	5.38	5.38	5.38	5.38	5.38	5.37	5.39	5.79	5.78	5.78
9	5.78	5.78	5.78	5.82	5.82	5.82	5.82	5.82	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.80	5.80	5.80	5.80	5.80
10	5.80	5.80	5.80	5.80	5.79	5.79	5.79	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81
11	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81
12	5.80	5.80	5.80	5.79	5.79	5.79	5.79	5.78	5.78	5.78	5.78	5.77	5.77	5.77	5.76	5.76	5.76	5.76	5.75	5.75
13	5.75	5.74	5.73	5.73	5.72	5.72	5.71	5.71	5.70	5.70	5.69	5.69	5.68	5.67	5.67	5.66	5.66	5.65	5.65	5.64
14	5.64	5.63	5.62	5.61	5.61	5.60	5.59	5.59	5.58	5.57	5.57	5.56	5.55	5.55	5.54	5.53	5.53	5.52	5.51	5.51
15	5.50	5.49	5.48	5.48	5.47	5.46	5.45	5.44	5.44	5.43	5.42	5.41	5.41	5.40	5.39	5.38	5.38	5.37	5.36	5.35
16	5.34	5.34	5.33	5.32	5.31	5.30	5.29	5.29	5.28	5.27	5.26	5.25	5.24	5.24	5.23	5.22	5.21	5.20	5.20	5.19
17	5.18	5.18	5.18	5.17	5.17	5.16	5.16	5.16	5.15	5.15	5.14	5.14								

ORGANIC NITROGEN AS N IN MG/L ITERATION 9

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	0.65	0.65	0.65	0.65	0.65	0.65	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.63	0.63	
2	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
3	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61
4	0.61	0.61	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.59	0.59	0.59	0.59	0.59
5	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.57	0.57
6	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
7	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57

8	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.58	0.57	0.57
9	0.57	0.57	0.57	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.57	0.57	0.57	0.57	0.57	0.57	0.57
10	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
11	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
12	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56
13	0.56	0.56	0.56	0.56	0.56	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
14	0.55	0.55	0.55	0.55	0.55	0.55	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
15	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
16	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
17	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52								

AMMONIA AS N IN MG/L ITERATION 9

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
2	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
3	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
4	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
5	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
6	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
7	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
8	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04
9	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03
10	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
11	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
12	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
13	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
14	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
15	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
16	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
17	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03								

NITRITE AS N IN MG/L ITERATION 9

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
2	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
3	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
4	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
5	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
6	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
7	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03
8	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
9	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
10	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
11	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
12	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
13	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
14	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
15	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
16	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
17	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03								

NITRATE AS N IN MG/L ITERATION 9

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
2	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
3	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
4	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
5	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.19
6	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
7	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
8	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
9	0.21	0.21	0.21	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.24	0.24
10	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.25	0.25
11	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
12	0.25	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
13	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.28	0.28	0.28
14	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.29	0.29	0.29	0.29	0.29	0.29	0.29
15	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
16	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
17	0.31	0.31	0.31	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32								

ORGANIC PHOSPHORUS AS P IN MG/L ITERATION 9

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
2	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
3	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07
4	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
5	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
6	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
7	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
8	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
9	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
10	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
11	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
12	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
13	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
14	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
15	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
16	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
17	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06								

DISSOLVED PHOSPHORUS AS P IN MG/L ITERATION 9

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
2	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
3	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
4	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
5	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
6	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
7	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
8	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03

9	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
10	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
11	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
12	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
13	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
14	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
15	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
16	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
17	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04								

ALGAE AS CHL-A IN UG/L ITERATION 9

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	12.39	12.39	12.38	12.38	12.37	12.37	12.36	12.36	12.35	12.35	12.34	12.34	12.33	12.33	12.32	12.32	12.31	12.31	12.30	12.30
2	12.29	12.29	12.29	12.28	12.28	12.28	12.28	12.33	12.32	12.32	12.30	11.54	11.53	11.53	11.53	11.53	11.52	11.52	11.52	11.51
3	11.51	11.50	11.50	11.49	11.48	11.48	11.47	11.47	11.46	11.46	11.45	11.44	11.44	11.43	11.43	11.42	11.42	11.41	11.41	11.40
4	11.39	11.38	11.36	11.35	11.34	11.33	11.31	11.30	11.29	11.27	11.26	11.25	11.24	11.22	11.21	11.20	11.19	11.17	11.16	11.15
5	11.13	11.11	11.09	11.07	11.05	11.04	11.02	11.00	10.98	10.96	10.94	10.92	10.90	10.89	10.87	10.85	10.83	10.81	10.79	10.78
6	10.76	10.74	10.72	10.70	10.68	10.66	10.65	10.63	10.61	10.59	10.57	10.56	10.54	10.52	10.50	10.49	10.48	10.46	10.44	10.42
7	10.41	10.39	10.37	10.34	9.97	9.95	9.94	9.92	9.90	9.88	9.87	9.85	9.83	9.82	9.80	9.78	9.77	9.75	9.73	9.72
8	9.70	9.68	9.67	9.65	9.63	9.62	9.60	9.58	9.57	9.55	9.53	9.52	9.50	9.49	9.47	9.46	9.44	9.44	9.43	9.42
9	9.40	9.39	9.38	9.35	9.34	9.33	9.32	9.31	9.30	9.29	9.28	9.27	9.26	9.25	9.24	9.23	9.22	9.21	9.20	9.19
10	9.18	9.18	9.17	9.16	9.16	9.15	9.14	9.15	9.14	9.13	9.13	9.12	9.11	9.11	9.10	9.10	9.09	9.08	9.08	9.07
11	9.06	9.06	9.05	9.05	9.04	9.04	9.03	9.02	9.02	9.01	9.01	9.00	9.00	8.99	8.99	8.98	8.98	8.97	8.97	8.96
12	8.95	8.94	8.93	8.91	8.90	8.89	8.88	8.87	8.86	8.84	8.83	8.82	8.81	8.80	8.79	8.78	8.76	8.75	8.74	8.73
13	8.72	8.71	8.69	8.68	8.67	8.65	8.64	8.63	8.62	8.60	8.59	8.58	8.57	8.55	8.54	8.53	8.52	8.51	8.49	8.48
14	8.47	8.46	8.45	8.44	8.43	8.42	8.41	8.40	8.39	8.38	8.37	8.36	8.35	8.34	8.33	8.32	8.32	8.31	8.30	8.29
15	8.28	8.27	8.27	8.26	8.25	8.25	8.24	8.24	8.23	8.22	8.22	8.21	8.20	8.20	8.19	8.19	8.18	8.17	8.17	8.16
16	8.16	8.16	8.16	8.16	8.16	8.15	8.15	8.15	8.15	8.15	8.15	8.15	8.15	8.15	8.15	8.15	8.14	8.14	8.14	8.14
17	8.15	8.15	8.15	8.15	8.16	8.16	8.16	8.17	8.17	8.17	8.18	8.18								

CONSERVATIVE MINERAL I CHLO IN MG/L ITERATION 9

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90
2	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.96	9.96	9.96	9.96	9.96	9.96	9.96	9.96	9.96	9.97	9.97	9.97	9.97
3	9.97	9.97	9.97	9.97	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
4	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
5	10.00	10.01	10.01	10.01	10.01	10.01	10.01	10.01	10.01	10.01	10.01	10.01	10.01	10.01	10.01	10.01	10.01	10.01	10.01	10.02
6	10.02	10.02	10.02	10.02	10.02	10.02	10.02	10.02	10.02	10.02	10.02	10.02	10.02	10.02	10.02	10.03	10.03	10.03	10.03	10.04
7	10.04	10.04	10.04	10.05	10.18	10.19	10.19	10.19	10.19	10.20	10.20	10.20	10.20	10.21	10.21	10.21	10.21	10.21	10.22	10.22
8	10.22	10.22	10.23	10.23	10.23	10.23	10.23	10.24	10.24	10.24	10.24	10.25	10.25	10.25	10.25	10.26	10.28	10.87	10.87	10.87
9	10.87	10.87	10.88	11.11	11.11	11.11	11.12	11.12	11.12	11.12	11.12	11.12	11.13	11.13	11.13	11.13	11.13	11.13	11.14	11.14
10	11.14	11.14	11.15	11.15	11.15	11.16	11.16	11.14	11.14	11.14	11.15	11.15	11.15	11.16	11.16	11.16	11.17	11.17	11.17	11.17
11	11.18	11.18	11.18	11.18	11.18	11.18	11.18	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.20	11.20	11.20	11.20	11.20	11.20
12	11.20	11.21	11.21	11.21	11.21	11.21	11.21	11.21	11.22	11.22	11.22	11.22	11.22	11.22	11.22	11.23	11.23	11.23	11.23	11.23
13	11.23	11.24	11.24	11.25	11.25	11.25	11.26	11.26	11.26	11.27	11.27	11.27	11.28	11.28	11.28	11.29	11.29	11.30	11.30	11.30
14	11.31	11.31	11.31	11.32	11.32	11.32	11.33	11.33	11.33	11.34	11.34	11.34	11.35	11.35	11.36	11.36	11.36	11.37	11.37	11.37
15	11.38	11.38	11.38	11.39	11.39	11.39	11.40	11.40	11.40	11.41	11.41	11.41	11.42	11.42	11.43	11.43	11.43	11.44	11.44	11.44
16	11.44	11.45	11.45	11.45	11.45	11.45	11.45	11.45	11.46	11.46	11.46	11.46	11.46	11.46	11.46	11.47	11.47	11.47	11.47	11.47
17	11.47	11.48	11.48	11.48	11.48	11.48	11.49	11.49	11.49	11.49	11.50	11.50								

CONSERVATIVE MINERAL II COND IN MG/L ITERATION 9

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	111	110.99	110.99	110.99	110.98	110.98	110.98	110.97	110.97	110.97	110.96	110.96	110.96	110.95	110.95	110.95	110.94	110.94	110.94	110.93
2	110.93	110.93	110.92	110.92	110.92	110.91	110.93	111.73	111.73	111.73	111.71	111.36	111.35	111.35	111.35	111.35	111.48	111.48	111.47	111.47
3	111.46	111.46	111.45	111.46	111.96	111.95	111.95	111.94	111.94	111.93	111.92	111.92	111.91	111.91	111.90	111.90	111.89	111.89	111.88	111.88
4	111.87	111.87	111.86	111.86	111.85	111.85	111.84	111.84	111.83	111.83	111.82	111.81	111.81	111.80	111.80	111.79	111.79	111.78	111.78	111.77
5	111.76	111.74	111.73	111.71	111.70	111.68	111.67	111.66	111.64	111.63	111.61	111.60	111.58	111.57	111.55	111.54	111.52	111.51	111.49	111.48
6	111.47	111.45	111.44	111.42	111.41	111.39	111.38	111.36	111.35	111.34	111.32	111.31	111.29	111.28	111.27	111.33	111.32	111.30	111.29	111.28
7	111.28	111.28	111.29	111.30	111.56	111.57	111.57	111.58	111.58	111.59	111.59	111.59	111.60	111.60	111.61	111.61	111.61	111.61	111.62	111.62	111.63
8	111.63	111.64	111.64	111.64	111.65	111.65	111.66	111.66	111.66	111.67	111.67	111.68	111.68	111.68	111.69	111.71	112.03	120.46	120.46	120.46
9	120.46	120.46	120.52	122.24	122.24	122.24	122.24	122.24	122.24	123.22	123.22	123.22	123.22	122.22	122.22	122.22	122.22	122.22	122.21	122.21	122.21
10	122.22	122.23	122.23	122.24	122.25	122.26	122.26	122.01	122.02	122.03	122.04	122.05	122.06	122.07	122.07	122.08	122.09	122.10	122.11	122.12
11	122.12	122.12	122.13	122.13	122.14	122.14	122.14	122.15	122.15	122.15	122.16	122.16	122.17	122.17	122.17	122.18	122.18	122.19	122.19	122.19
12	122.20	122.20	122.20	122.21	122.21	122.22	122.22	122.22	122.23	123.22	123.22	124.22	124.22	124.22	125.22	125.22	125.22	126.22	126.22	127.22	127.27
13	122.28	122.29	122.30	122.30	122.31	122.32	122.33	122.34	122.35	122.36	122.37	122.37	122.38	122.39	122.40	122.41	122.42	122.43	122.44	122.44
14	122.45	122.46	122.47	122.48	122.49	122.50	122.50	122.51	122.52	122.53	122.54	122.55	122.56	122.57	122.57	122.58	122.59	122.60	122.61	122.62
15	122.63	122.63	122.64	122.65	122.66	122.67	122.68	122.69	122.69	122.70	122.71	122.72	122.73	122.74	122.75	122.75	122.76	122.77	122.78	122.79
16	122.79	122.79	122.80	122.80	122.80	122.81	122.81	122.81	122.82	122.82	122.82	122.83	122.83	122.83	122.83	122.84	122.84	122.84	122.85	122.85
17	122.86	122.86	122.87	122.87	122.88	122.88	122.89	122.89	122.90	122.90	122.91	122.91								

ALGAE GROWTH RATES IN PER DAY ARE ITERATION 9

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
2	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
3	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
4	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
5	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
6	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
7	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
8	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
9	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
10	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
11	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
12	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
13	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
14	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
15	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
16	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
17	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10								

PHOTOSYNTHESIS-RESPIRATION RATIOS ARE ITERATION 9

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
2	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.74	0.74	0.74	0.74	0.74	0.74
3	0.66	0.66	0.66	0.66	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68
4	0.51	0.51	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.53	0.53	0.53	0.53
5	0.42	0.42	0.42	0.42	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.44	0.44	0.44	0.44
6	0.44	0.44	0.44	0.44	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.46	0.46	0.46	0.46	0.46
7	0.47	0.47	0.47	0.47	0.47	0.47	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.49	0.49	0.49
8	0.49	0.49	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.51	0.51	0.51	0.51	0.51	0.56	0.56	0.56
9	0.57	0.57	0.57	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.61	0.61	0.61	0.61	0.61

10	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
11	0.64	0.64	0.64	0.64	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.66	0.66	0.66
12	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
13	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
14	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
15	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
16	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79
17	0.87	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88								

STREAM QUALITY SIMULATION — OUTPUT PAGE NUMBER 1
QUAL-2E STREAM QUALITY ROUTING MODEL — Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** HYDRAULICS SUMMARY **

ELE ORD	RCH NUM	ELE NUM	BEGIN LOC MILE	END LOC MILE	FLOW CFS	POINT SRCE CFS	INCR FLOW CFS	VEL FPS	TRVL TIME DAY	DEPTH FT	WIDTH FT	VOLUME K-FT-3	BOTTOM AREA K-FT-2	X-SECT AREA FT-2	DSPRSN COEF FT-2/S
1	1	1	200.38	200.13	3723.50	0.00	2.50	0.572	0.027	16.005	406.544	8589.04	578.89	6506.85	23.12
2	1	2	200.13	199.88	3726.00	0.00	2.50	0.573	0.027	16.005	406.545	8589.17	578.89	6506.94	23.14
3	1	3	199.88	199.63	3728.50	0.00	2.50	0.573	0.027	16.006	406.547	8589.29	578.90	6507.03	23.15
4	1	4	199.63	199.38	3731.00	0.00	2.50	0.573	0.027	16.006	406.548	8589.41	578.90	6507.13	23.17
5	1	5	199.38	199.13	3733.50	0.00	2.50	0.574	0.027	16.006	406.549	8589.53	578.90	6507.22	23.18
6	1	6	199.13	198.88	3736.00	0.00	2.50	0.574	0.027	16.006	406.551	8589.65	578.90	6507.31	23.20
7	1	7	198.88	198.63	3738.50	0.00	2.50	0.574	0.027	16.006	406.552	8589.77	578.91	6507.40	23.21
8	1	8	198.63	198.38	3741.00	0.00	2.50	0.575	0.027	16.006	406.553	8589.89	578.91	6507.49	23.23
9	1	9	198.38	198.13	3743.50	0.00	2.50	0.575	0.027	16.007	406.555	8590.01	578.91	6507.59	23.24
10	1	10	198.13	197.88	3746.00	0.00	2.50	0.576	0.027	16.007	406.556	8590.14	578.91	6507.68	23.26
11	1	11	197.88	197.63	3748.50	0.00	2.50	0.576	0.027	16.007	406.557	8590.26	578.91	6507.77	23.27
12	1	12	197.63	197.38	3751.00	0.00	2.50	0.576	0.027	16.007	406.559	8590.38	578.92	6507.86	23.29
13	1	13	197.38	197.13	3753.50	0.00	2.50	0.577	0.026	16.007	406.560	8590.50	578.92	6507.95	23.30
14	1	14	197.13	196.88	3756.00	0.00	2.50	0.577	0.026	16.008	406.561	8590.62	578.92	6508.04	23.32
15	1	15	196.88	196.63	3758.50	0.00	2.50	0.578	0.026	16.008	406.563	8590.74	578.92	6508.14	23.34
16	1	16	196.63	196.38	3761.00	0.00	2.50	0.578	0.026	16.008	406.564	8590.86	578.93	6508.23	23.35
17	1	17	196.38	196.13	3763.50	0.00	2.50	0.578	0.026	16.008	406.565	8590.98	578.93	6508.32	23.37
18	1	18	196.13	195.88	3766.00	0.00	2.50	0.579	0.026	16.008	406.566	8591.10	578.93	6508.41	23.38
19	1	19	195.88	195.63	3768.50	0.00	2.50	0.579	0.026	16.008	406.568	8591.22	578.93	6508.50	23.40
20	1	20	195.63	195.38	3771.00	0.00	2.50	0.579	0.026	16.009	406.569	8591.34	578.93	6508.59	23.41
21	2	1	195.38	195.13	3773.50	0.00	2.50	0.626	0.024	14.865	405.659	7959.91	574.71	6030.23	23.77
22	2	2	195.13	194.88	3776.00	0.00	2.50	0.626	0.024	14.865	405.659	7959.99	574.71	6030.30	23.79
23	2	3	194.88	194.63	3778.50	0.00	2.50	0.627	0.024	14.866	405.660	7960.08	574.72	6030.36	23.80
24	2	4	194.63	194.38	3781.00	0.00	2.50	0.627	0.024	14.866	405.661	7960.16	574.72	6030.43	23.82
25	2	5	194.38	194.13	3783.50	0.00	2.50	0.627	0.024	14.866	405.661	7960.25	574.72	6030.49	23.84
26	2	6	194.13	193.88	3786.00	0.00	2.50	0.628	0.024	14.866	405.662	7960.33	574.72	6030.56	23.85
27	2	7	193.88	193.63	3788.50	0.00	2.50	0.628	0.024	14.866	405.663	7960.42	574.72	6030.62	23.87
28	2	8	193.63	193.38	3853.39	62.39	2.50	0.639	0.024	14.870	405.681	7962.61	574.75	6032.28	24.27
29	2	9	193.38	193.13	3855.89	0.00	2.50	0.639	0.024	14.870	405.682	7962.69	574.76	6032.34	24.29
30	2	10	193.13	192.88	3858.39	0.00	2.50	0.640	0.024	14.870	405.683	7962.78	574.76	6032.41	24.31

31	2	11	192.88	192.63	3615.85	-245.04	2.50	0.600	0.025	14.857	405.612	7954.41	574.63	6026.06	22.78
32	2	12	192.63	192.38	3863.39	245.04	2.50	0.640	0.024	14.870	405.684	7962.94	574.76	6032.53	24.34
33	2	13	192.38	192.13	3865.89	0.00	2.50	0.641	0.024	14.870	405.685	7963.03	574.76	6032.60	24.35
34	2	14	192.13	191.88	3868.39	0.00	2.50	0.641	0.024	14.870	405.686	7963.11	574.76	6032.66	24.37
35	2	15	191.88	191.63	3870.89	0.00	2.50	0.642	0.024	14.870	405.686	7963.19	574.76	6032.72	24.38
36	2	16	191.63	191.38	3873.39	0.00	2.50	0.642	0.024	14.871	405.687	7963.28	574.77	6032.79	24.40
37	2	17	191.38	191.13	3877.47	1.58	2.50	0.643	0.024	14.871	405.688	7963.41	574.77	6032.89	24.42
38	2	18	191.13	190.88	3879.97	0.00	2.50	0.643	0.024	14.871	405.689	7963.50	574.77	6032.95	24.44
39	2	19	190.88	190.63	3882.47	0.00	2.50	0.644	0.024	14.871	405.690	7963.58	574.77	6033.01	24.46
40	2	20	190.63	190.38	3884.97	0.00	2.50	0.644	0.024	14.871	405.690	7963.66	574.77	6033.08	24.47
41	3	1	190.38	190.13	3887.47	0.00	2.50	0.701	0.022	13.722	403.973	7317.41	569.47	5543.50	24.92
42	3	2	190.13	189.88	3889.97	0.00	2.50	0.702	0.022	13.723	403.975	7317.51	569.48	5543.57	24.94

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 2
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** HYDRAULICS SUMMARY **

ELE ORD	RCH NUM	ELE NUM	BEGIN LOC MILE	END LOC MILE	FLOW CFS	POINT SRCE CFS	INCR FLOW CFS	VEL FPS	TRVL TIME DAY	DEPTH FT	WIDTH FT	VOLUME K-FT-3	BOTTOM AREA K-FT-2	X-SECT AREA FT-2	DSPRSN COEF FT-2/S
43	3	3	189.88	189.63	3892.47	0.00	2.50	0.702	0.022	13.723	403.978	7317.61	569.48	5543.64	24.96
44	3	4	189.63	189.38	3894.97	0.00	2.50	0.703	0.022	13.723	403.980	7317.70	569.48	5543.71	24.97
45	3	5	189.38	189.13	3898.20	0.73	2.50	0.703	0.022	13.723	403.982	7317.83	569.49	5543.81	24.99
46	3	6	189.13	188.88	3900.70	0.00	2.50	0.704	0.022	13.723	403.985	7317.92	569.49	5543.88	25.01
47	3	7	188.88	188.63	3903.20	0.00	2.50	0.704	0.022	13.723	403.987	7318.02	569.49	5543.95	25.02
48	3	8	188.63	188.38	3905.70	0.00	2.50	0.704	0.022	13.723	403.989	7318.12	569.49	5544.03	25.04
49	3	9	188.38	188.13	3908.20	0.00	2.50	0.705	0.022	13.723	403.991	7318.21	569.50	5544.10	25.06
50	3	10	188.13	187.88	3910.70	0.00	2.50	0.705	0.022	13.723	403.993	7318.31	569.50	5544.17	25.07
51	3	11	187.88	187.63	3913.20	0.00	2.50	0.706	0.022	13.724	403.995	7318.40	569.50	5544.24	25.09
52	3	12	187.63	187.38	3915.70	0.00	2.50	0.706	0.022	13.724	403.997	7318.50	569.51	5544.32	25.10
53	3	13	187.38	187.13	3918.20	0.00	2.50	0.707	0.022	13.724	404.000	7318.59	569.51	5544.39	25.12
54	3	14	187.13	186.88	3920.70	0.00	2.50	0.707	0.022	13.724	404.002	7318.69	569.51	5544.46	25.13
55	3	15	186.88	186.63	3923.20	0.00	2.50	0.708	0.022	13.724	404.004	7318.79	569.52	5544.54	25.15
56	3	16	186.63	186.38	3925.70	0.00	2.50	0.708	0.022	13.724	404.006	7318.88	569.52	5544.61	25.17
57	3	17	186.38	186.13	3928.20	0.00	2.50	0.708	0.022	13.724	404.008	7318.98	569.52	5544.68	25.18
58	3	18	186.13	185.88	3930.70	0.00	2.50	0.709	0.022	13.724	404.010	7319.07	569.53	5544.75	25.20
59	3	19	185.88	185.63	3933.20	0.00	2.50	0.709	0.022	13.724	404.012	7319.17	569.53	5544.82	25.21
60	3	20	185.63	185.38	3935.70	0.00	2.50	0.710	0.022	13.725	404.014	7319.26	569.53	5544.90	25.23
61	4	1	185.38	185.13	3938.20	0.00	2.50	0.485	0.031	18.182	446.500	10716.09	637.38	8118.25	21.80
62	4	2	185.13	184.88	3940.70	0.00	2.50	0.485	0.031	18.182	446.501	10716.21	637.38	8118.34	21.81
63	4	3	184.88	184.63	3943.20	0.00	2.50	0.486	0.031	18.182	446.502	10716.33	637.38	8118.43	21.82
64	4	4	184.63	184.38	3945.70	0.00	2.50	0.486	0.031	18.182	446.503	10716.45	637.39	8118.52	21.84
65	4	5	184.38	184.13	3948.20	0.00	2.50	0.486	0.031	18.183	446.503	10716.57	637.39	8118.61	21.85
66	4	6	184.13	183.88	3950.70	0.00	2.50	0.487	0.031	18.183	446.504	10716.69	637.39	8118.70	21.86
67	4	7	183.88	183.63	3953.20	0.00	2.50	0.487	0.031	18.183	446.505	10716.81	637.39	8118.79	21.88
68	4	8	183.63	183.38	3955.70	0.00	2.50	0.487	0.031	18.183	446.506	10716.93	637.39	8118.88	21.89

69	4	9	183.38	183.13	3958.20	0.00	2.50	0.488	0.031	18.183	446.507	10717.05	637.39	8118.97	21.91
70	4	10	183.13	182.88	3960.70	0.00	2.50	0.488	0.031	18.183	446.508	10717.16	637.39	8119.06	21.92
71	4	11	182.88	182.63	3963.20	0.00	2.50	0.488	0.031	18.184	446.508	10717.28	637.40	8119.15	21.93
72	4	12	182.63	182.38	3965.70	0.00	2.50	0.488	0.031	18.184	446.509	10717.40	637.40	8119.24	21.95
73	4	13	182.38	182.13	3968.20	0.00	2.50	0.489	0.031	18.184	446.510	10717.52	637.40	8119.33	21.96
74	4	14	182.13	181.88	3970.70	0.00	2.50	0.489	0.031	18.184	446.511	10717.64	637.40	8119.42	21.97
75	4	15	181.88	181.63	3973.20	0.00	2.50	0.489	0.031	18.184	446.512	10717.76	637.40	8119.51	21.99
76	4	16	181.63	181.38	3975.70	0.00	2.50	0.490	0.031	18.184	446.512	10717.88	637.40	8119.60	22.00
77	4	17	181.38	181.13	3978.20	0.00	2.50	0.490	0.031	18.185	446.513	10718.00	637.41	8119.69	22.02
78	4	18	181.13	180.88	3980.70	0.00	2.50	0.490	0.031	18.185	446.514	10718.11	637.41	8119.78	22.03
79	4	19	180.88	180.63	3983.20	0.00	2.50	0.491	0.031	18.185	446.515	10718.23	637.41	8119.87	22.04
80	4	20	180.63	180.38	3985.70	0.00	2.50	0.491	0.031	18.185	446.516	10718.35	637.41	8119.96	22.06
81	5	1	180.38	180.13	3988.20	0.00	2.50	0.375	0.041	22.760	467.230	14036.86	676.83	10633.98	20.32
82	5	2	180.13	179.88	3990.70	0.00	2.50	0.375	0.041	22.760	467.231	14036.98	676.83	10634.08	20.33
83	5	3	179.88	179.63	3993.20	0.00	2.50	0.376	0.041	22.760	467.233	14037.11	676.83	10634.17	20.34
84	5	4	179.63	179.38	3995.70	0.00	2.50	0.376	0.041	22.760	467.234	14037.23	676.84	10634.27	20.35

***** STEADY STATE SIMULATION *****

** HYDRAULICS SUMMARY **

ELE ORD	RCH NUM	ELE NUM	BEGIN LOC MILE	END LOC MILE	FLOW CFS	POINT SRCE CFS	INCR FLOW CFS	VEL FPS	TRVL TIME DAY	DEPTH FT	WIDTH FT	VOLUME K-FT-3	BOTTOM AREA K-FT-2	X-SECT AREA FT-2	DSPRSN COEF FT-2/S
85	5	5	179.38	179.13	3998.20	0.00	2.50	0.376	0.041	22.760	467.236	14037.36	676.84	10634.36	20.37
86	5	6	179.13	178.88	4000.70	0.00	2.50	0.376	0.041	22.760	467.238	14037.48	676.84	10634.45	20.38
87	5	7	178.88	178.63	4003.20	0.00	2.50	0.376	0.041	22.760	467.239	14037.60	676.84	10634.55	20.39
88	5	8	178.63	178.38	4005.70	0.00	2.50	0.377	0.041	22.761	467.241	14037.73	676.85	10634.64	20.41
89	5	9	178.38	178.13	4008.20	0.00	2.50	0.377	0.041	22.761	467.242	14037.85	676.85	10634.73	20.42
90	5	10	178.13	177.88	4010.70	0.00	2.50	0.377	0.041	22.761	467.244	14037.97	676.85	10634.83	20.43
91	5	11	177.88	177.63	4013.20	0.00	2.50	0.377	0.040	22.761	467.246	14038.10	676.85	10634.92	20.44
92	5	12	177.63	177.38	4015.70	0.00	2.50	0.378	0.040	22.761	467.247	14038.22	676.86	10635.01	20.46
93	5	13	177.38	177.13	4018.20	0.00	2.50	0.378	0.040	22.761	467.249	14038.34	676.86	10635.11	20.47
94	5	14	177.13	176.88	4020.70	0.00	2.50	0.378	0.040	22.761	467.251	14038.47	676.86	10635.20	20.48
95	5	15	176.88	176.63	4023.20	0.00	2.50	0.378	0.040	22.761	467.252	14038.59	676.86	10635.29	20.49
96	5	16	176.63	176.38	4025.70	0.00	2.50	0.379	0.040	22.761	467.254	14038.71	676.87	10635.39	20.51
97	5	17	176.38	176.13	4028.20	0.00	2.50	0.379	0.040	22.762	467.255	14038.84	676.87	10635.48	20.52
98	5	18	176.13	175.88	4030.70	0.00	2.50	0.379	0.040	22.762	467.257	14038.96	676.87	10635.57	20.53
99	5	19	175.88	175.63	4033.20	0.00	2.50	0.379	0.040	22.762	467.259	14039.08	676.87	10635.67	20.54
100	5	20	175.63	175.38	4035.70	0.00	2.50	0.379	0.040	22.762	467.260	14039.21	676.88	10635.76	20.56
101	6	1	175.38	175.13	4038.20	0.00	2.50	0.351	0.043	22.577	509.223	15175.89	731.78	11496.89	18.90
102	6	2	175.13	174.88	4040.70	0.00	2.50	0.351	0.043	22.577	509.224	15175.96	731.78	11496.94	18.91
103	6	3	174.88	174.63	4043.20	0.00	2.50	0.352	0.043	22.577	509.225	15176.04	731.78	11497.00	18.92
104	6	4	174.63	174.38	4045.70	0.00	2.50	0.352	0.043	22.578	509.226	15176.11	731.78	11497.05	18.94
105	6	5	174.38	174.13	4048.20	0.00	2.50	0.352	0.043	22.578	509.227	15176.18	731.78	11497.11	18.95
106	6	6	174.13	173.88	4050.70	0.00	2.50	0.352	0.043	22.578	509.228	15176.26	731.79	11497.16	18.96

107	6	7	173.88	173.63	4053.20	0.00	2.50	0.353	0.043	22.578	509.229	15176.33	731.79	11497.22	18.97
108	6	8	173.63	173.38	4055.70	0.00	2.50	0.353	0.043	22.578	509.230	15176.40	731.79	11497.27	18.98
109	6	9	173.38	173.13	4058.20	0.00	2.50	0.353	0.043	22.578	509.231	15176.47	731.79	11497.33	18.99
110	6	10	173.13	172.88	4060.70	0.00	2.50	0.353	0.043	22.578	509.232	15176.55	731.79	11497.38	19.01
111	6	11	172.88	172.63	4063.20	0.00	2.50	0.353	0.043	22.578	509.233	15176.62	731.79	11497.44	19.02
112	6	12	172.63	172.38	4065.70	0.00	2.50	0.354	0.043	22.578	509.234	15176.69	731.79	11497.49	19.03
113	6	13	172.38	172.13	4068.20	0.00	2.50	0.354	0.043	22.578	509.235	15176.77	731.80	11497.55	19.04
114	6	14	172.13	171.88	4070.70	0.00	2.50	0.354	0.043	22.578	509.235	15176.84	731.80	11497.60	19.05
115	6	15	171.88	171.63	4073.20	0.00	2.50	0.354	0.043	22.578	509.236	15176.91	731.80	11497.66	19.06
116	6	16	171.63	171.38	4077.72	2.02	2.50	0.355	0.043	22.578	509.238	15177.04	731.80	11497.76	19.08
117	6	17	171.38	171.13	4080.22	0.00	2.50	0.355	0.043	22.578	509.239	15177.12	731.80	11497.81	19.10
118	6	18	171.13	170.88	4082.72	0.00	2.50	0.355	0.043	22.578	509.240	15177.19	731.80	11497.87	19.11
119	6	19	170.88	170.63	4085.22	0.00	2.50	0.355	0.043	22.579	509.241	15177.26	731.81	11497.92	19.12
120	6	20	170.63	170.38	4087.72	0.00	2.50	0.356	0.043	22.579	509.242	15177.33	731.81	11497.98	19.13
121	7	1	170.38	170.13	4090.22	0.00	2.50	0.333	0.046	22.281	551.331	16214.86	786.58	12283.98	17.72
122	7	2	170.13	169.88	4092.72	0.00	2.50	0.333	0.046	22.281	551.332	16214.92	786.58	12284.03	17.73
123	7	3	169.88	169.63	4095.22	0.00	2.50	0.333	0.046	22.281	551.333	16214.99	786.58	12284.08	17.74
124	7	4	169.63	169.38	3955.40	-142.32	2.50	0.322	0.047	22.278	551.267	16211.27	786.49	12281.26	17.14
125	7	5	169.38	169.13	4100.22	142.32	2.50	0.334	0.046	22.281	551.335	16215.12	786.58	12284.18	17.76
126	7	6	169.13	168.88	4102.72	0.00	2.50	0.334	0.046	22.281	551.336	16215.18	786.59	12284.23	17.77

***** STEADY STATE SIMULATION *****

** HYDRAULICS SUMMARY **

ELE ORD	RCH NUM	ELE NUM	BEGIN LOC MILE	END LOC MILE	FLOW CFS	POINT SRCE CFS	INCR FLOW CFS	VEL FPS	TRVL TIME DAY	DEPTH FT	WIDTH FT	VOLUME K-FT-3	BOTTOM AREA K-FT-2	X-SECT AREA FT-2	DSPRSN COEF FT-2/S
127	7	7	168.88	168.63	4105.22	0.00	2.50	0.334	0.046	22.281	551.338	16215.25	786.59	12284.28	17.79
128	7	8	168.63	168.38	4107.72	0.00	2.50	0.334	0.046	22.281	551.339	16215.31	786.59	12284.33	17.80
129	7	9	168.38	168.13	4110.22	0.00	2.50	0.335	0.046	22.281	551.340	16215.38	786.59	12284.38	17.81
130	7	10	168.13	167.88	4112.72	0.00	2.50	0.335	0.046	22.281	551.341	16215.44	786.59	12284.43	17.82
131	7	11	167.88	167.63	4115.22	0.00	2.50	0.335	0.046	22.281	551.342	16215.51	786.59	12284.48	17.83
132	7	12	167.63	167.38	4117.72	0.00	2.50	0.335	0.046	22.281	551.343	16215.57	786.60	12284.52	17.84
133	7	13	167.38	167.13	4120.22	0.00	2.50	0.335	0.046	22.281	551.344	16215.64	786.60	12284.57	17.85
134	7	14	167.13	166.88	4122.72	0.00	2.50	0.336	0.046	22.281	551.346	16215.70	786.60	12284.62	17.86
135	7	15	166.88	166.63	4125.22	0.00	2.50	0.336	0.045	22.281	551.347	16215.77	786.60	12284.67	17.87
136	7	16	166.63	166.38	4127.72	0.00	2.50	0.336	0.045	22.281	551.348	16215.83	786.60	12284.72	17.88
137	7	17	166.38	166.13	4130.22	0.00	2.50	0.336	0.045	22.281	551.349	16215.90	786.60	12284.77	17.89
138	7	18	166.13	165.88	4132.72	0.00	2.50	0.336	0.045	22.281	551.350	16215.96	786.60	12284.82	17.90
139	7	19	165.88	165.63	4135.22	0.00	2.50	0.337	0.045	22.281	551.351	16216.03	786.61	12284.87	17.91
140	7	20	165.63	165.38	4137.72	0.00	2.50	0.337	0.045	22.281	551.352	16216.09	786.61	12284.92	17.93
141	8	1	165.38	165.13	4140.22	0.00	2.50	0.317	0.048	22.069	592.223	17252.22	840.00	13069.87	16.73
142	8	2	165.13	164.88	4142.72	0.00	2.50	0.317	0.048	22.069	592.224	17252.27	840.00	13069.90	16.74
143	8	3	164.88	164.63	4145.22	0.00	2.50	0.317	0.048	22.069	592.225	17252.32	840.00	13069.94	16.75
144	8	4	164.63	164.38	4147.72	0.00	2.50	0.317	0.048	22.069	592.225	17252.37	840.00	13069.97	16.76

145	8	5	164.38	164.13	4150.22	0.00	2.50	0.318	0.048	22.069	592.226	17252.42	840.00	13070.01	16.77
146	8	6	164.13	163.88	4152.72	0.00	2.50	0.318	0.048	22.069	592.227	17252.46	840.00	13070.05	16.78
147	8	7	163.88	163.63	4155.22	0.00	2.50	0.318	0.048	22.069	592.228	17252.51	840.00	13070.08	16.79
148	8	8	163.63	163.38	4157.72	0.00	2.50	0.318	0.048	22.069	592.228	17252.56	840.00	13070.12	16.80
149	8	9	163.38	163.13	4160.22	0.00	2.50	0.318	0.048	22.069	592.229	17252.61	840.01	13070.16	16.81
150	8	10	163.13	162.88	4162.72	0.00	2.50	0.318	0.048	22.069	592.230	17252.65	840.01	13070.19	16.82
151	8	11	162.88	162.63	4165.22	0.00	2.50	0.319	0.048	22.069	592.230	17252.70	840.01	13070.23	16.83
152	8	12	162.63	162.38	4167.72	0.00	2.50	0.319	0.048	22.070	592.231	17252.75	840.01	13070.26	16.84
153	8	13	162.38	162.13	4170.22	0.00	2.50	0.319	0.048	22.070	592.232	17252.80	840.01	13070.30	16.85
154	8	14	162.13	161.88	4172.72	0.00	2.50	0.319	0.048	22.070	592.233	17252.85	840.01	13070.34	16.86
155	8	15	161.88	161.63	4175.22	0.00	2.50	0.319	0.048	22.070	592.233	17252.89	840.01	13070.37	16.87
156	8	16	161.63	161.38	4177.72	0.00	2.50	0.320	0.048	22.070	592.234	17252.94	840.01	13070.41	16.88
157	8	17	161.38	161.13	4180.22	0.00	2.50	0.320	0.048	22.070	592.235	17252.99	840.01	13070.44	16.89
158	8	18	161.13	160.88	4204.34	21.62	2.50	0.322	0.047	22.070	592.242	17253.44	840.02	13070.79	16.98
159	8	19	160.88	160.63	4206.84	0.00	2.50	0.322	0.047	22.070	592.242	17253.49	840.02	13070.83	16.99
160	8	20	160.63	160.38	4209.34	0.00	2.50	0.322	0.047	22.070	592.243	17253.54	840.03	13070.86	17.00
161	9	1	160.38	160.13	4211.84	0.00	2.50	0.346	0.044	21.842	557.577	16075.49	793.66	12178.40	18.10
162	9	2	160.13	159.88	4214.34	0.00	2.50	0.346	0.044	21.842	557.578	16075.53	793.67	12178.43	18.11
163	9	3	159.88	159.63	4216.84	0.00	2.50	0.346	0.044	21.842	557.579	16075.56	793.67	12178.46	18.12
164	9	4	159.63	159.38	4230.46	11.12	2.50	0.347	0.044	21.842	557.584	16075.77	793.67	12178.61	18.18
165	9	5	159.38	159.13	4232.96	0.00	2.50	0.348	0.044	21.842	557.585	16075.81	793.67	12178.64	18.19
166	9	6	159.13	158.88	4235.46	0.00	2.50	0.348	0.044	21.842	557.586	16075.85	793.68	12178.67	18.20
167	9	7	158.88	158.63	4237.96	0.00	2.50	0.348	0.044	21.842	557.586	16075.89	793.68	12178.70	18.22
168	9	8	158.63	158.38	4240.46	0.00	2.50	0.348	0.044	21.842	557.587	16075.92	793.68	12178.73	18.23

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***** STEADY STATE SIMULATION *****

** HYDRAULICS SUMMARY **

ELE ORD	RCH NUM	ELE NUM	BEGIN LOC MILE	END LOC MILE	FLOW CFS	POINT SRCE CFS	INCR FLOW CFS	VEL FPS	TRVL TIME DAY	DEPTH FT	WIDTH FT	VOLUME K-FT-3	BOTTOM AREA K-FT-2	X-SECT AREA FT-2	DSPRSN COEF FT-2/S
169	9	9	158.38	158.13	4242.96	0.00	2.50	0.348	0.044	21.842	557.588	16075.96	793.68	12178.76	18.24
170	9	10	158.13	157.88	4245.46	0.00	2.50	0.349	0.044	21.842	557.589	16076.00	793.68	12178.79	18.25
171	9	11	157.88	157.63	4247.96	0.00	2.50	0.349	0.044	21.842	557.590	16076.04	793.68	12178.82	18.26
172	9	12	157.63	157.38	4250.46	0.00	2.50	0.349	0.044	21.842	557.591	16076.08	793.68	12178.84	18.27
173	9	13	157.38	157.13	4252.96	0.00	2.50	0.349	0.044	21.842	557.592	16076.11	793.68	12178.87	18.28
174	9	14	157.13	156.88	4255.46	0.00	2.50	0.349	0.044	21.842	557.593	16076.15	793.68	12178.90	18.29
175	9	15	156.88	156.63	4257.96	0.00	2.50	0.350	0.044	21.842	557.593	16076.19	793.69	12178.93	18.30
176	9	16	156.63	156.38	4260.46	0.00	2.50	0.350	0.044	21.842	557.594	16076.23	793.69	12178.96	18.31
177	9	17	156.38	156.13	4262.96	0.00	2.50	0.350	0.044	21.842	557.595	16076.26	793.69	12178.99	18.32
178	9	18	156.13	155.88	4265.46	0.00	2.50	0.350	0.044	21.842	557.596	16076.30	793.69	12179.02	18.33
179	9	19	155.88	155.63	4267.96	0.00	2.50	0.350	0.044	21.842	557.597	16076.34	793.69	12179.04	18.34
180	9	20	155.63	155.38	4270.46	0.00	2.50	0.351	0.044	21.842	557.598	16076.38	793.69	12179.07	18.35
181	10	1	155.38	155.13	4272.96	0.00	2.50	0.380	0.040	21.456	524.078	14843.21	748.43	11244.86	19.60
182	10	2	155.13	154.88	4275.46	0.00	2.50	0.380	0.040	21.457	524.078	14843.25	748.43	11244.88	19.61

183	10	3	154.88	154.63	4277.96	0.00	2.50	0.380	0.040	21.457	524.079	14843.28	748.43	11244.91	19.62
184	10	4	154.63	154.38	4280.46	0.00	2.50	0.381	0.040	21.457	524.079	14843.31	748.43	11244.93	19.63
185	10	5	154.38	154.13	4282.96	0.00	2.50	0.381	0.040	21.457	524.080	14843.35	748.43	11244.96	19.64
186	10	6	154.13	153.88	4285.46	0.00	2.50	0.381	0.040	21.457	524.080	14843.38	748.43	11244.98	19.66
187	10	7	153.88	153.63	4287.96	0.00	2.50	0.381	0.040	21.457	524.081	14843.41	748.43	11245.01	19.67
188	10	8	153.63	153.38	4307.25	16.79	2.50	0.383	0.040	21.457	524.085	14843.67	748.44	11245.20	19.76
189	10	9	153.38	153.13	4309.75	0.00	2.50	0.383	0.040	21.457	524.086	14843.70	748.44	11245.22	19.77
190	10	10	153.13	152.88	4312.25	0.00	2.50	0.383	0.040	21.457	524.086	14843.73	748.44	11245.25	19.78
191	10	11	152.88	152.63	4314.75	0.00	2.50	0.384	0.040	21.457	524.087	14843.76	748.44	11245.27	19.79
192	10	12	152.63	152.38	4317.25	0.00	2.50	0.384	0.040	21.457	524.087	14843.79	748.44	11245.30	19.80
193	10	13	152.38	152.13	4319.75	0.00	2.50	0.384	0.040	21.457	524.088	14843.83	748.44	11245.32	19.81
194	10	14	152.13	151.88	4322.25	0.00	2.50	0.384	0.040	21.457	524.088	14843.86	748.44	11245.35	19.82
195	10	15	151.88	151.63	4324.75	0.00	2.50	0.385	0.040	21.457	524.089	14843.89	748.44	11245.37	19.84
196	10	16	151.63	151.38	4327.25	0.00	2.50	0.385	0.040	21.457	524.089	14843.93	748.44	11245.40	19.85
197	10	17	151.38	151.13	4329.75	0.00	2.50	0.385	0.040	21.457	524.090	14843.96	748.45	11245.42	19.86
198	10	18	151.13	150.88	4332.25	0.00	2.50	0.385	0.040	21.457	524.091	14843.99	748.45	11245.45	19.87
199	10	19	150.88	150.63	4334.75	0.00	2.50	0.385	0.040	21.457	524.091	14844.02	748.45	11245.47	19.88
200	10	20	150.63	150.38	4337.25	0.00	2.50	0.386	0.040	21.457	524.092	14844.06	748.45	11245.50	19.89
201	11	1	150.38	150.13	4338.40	0.00	1.15	0.418	0.037	21.165	490.480	13702.67	703.31	10380.81	21.31
202	11	2	150.13	149.88	4339.55	0.00	1.15	0.418	0.037	21.165	490.480	13702.68	703.31	10380.81	21.32
203	11	3	149.88	149.63	4340.70	0.00	1.15	0.418	0.037	21.165	490.481	13702.69	703.31	10380.82	21.32
204	11	4	149.63	149.38	4341.85	0.00	1.15	0.418	0.037	21.165	490.481	13702.70	703.31	10380.83	21.33
205	11	5	149.38	149.13	4343.00	0.00	1.15	0.418	0.037	21.165	490.481	13702.71	703.31	10380.84	21.33
206	11	6	149.13	148.88	4344.15	0.00	1.15	0.418	0.037	21.165	490.481	13702.72	703.31	10380.85	21.34
207	11	7	148.88	148.63	4345.30	0.00	1.15	0.419	0.036	21.165	490.481	13702.73	703.31	10380.85	21.34
208	11	8	148.63	148.38	4346.45	0.00	1.15	0.419	0.036	21.165	490.482	13702.74	703.31	10380.86	21.35
209	11	9	148.38	148.13	4347.60	0.00	1.15	0.419	0.036	21.165	490.482	13702.75	703.31	10380.87	21.36
210	11	10	148.13	147.88	4348.75	0.00	1.15	0.419	0.036	21.165	490.482	13702.76	703.31	10380.88	21.36

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***** STEADY STATE SIMULATION *****

** HYDRAULICS SUMMARY **

ELE ORD	RCH NUM	ELE NUM	BEGIN LOC MILE	END LOC MILE	FLOW CFS	POINT SRCE CFS	INCR FLOW CFS	VEL FPS	TRVL TIME DAY	DEPTH FT	WIDTH FT	VOLUME K-FT-3	BOTTOM AREA K-FT-2	X-SECT AREA FT-2	DSPRSN COEF FT-2/S
211	11	11	147.88	147.63	4349.90	0.00	1.15	0.419	0.036	21.165	490.482	13702.77	703.31	10380.89	21.37
212	11	12	147.63	147.38	4351.05	0.00	1.15	0.419	0.036	21.165	490.482	13702.78	703.31	10380.89	21.37
213	11	13	147.38	147.13	4352.20	0.00	1.15	0.419	0.036	21.165	490.482	13702.79	703.31	10380.90	21.38
214	11	14	147.13	146.88	4353.35	0.00	1.15	0.419	0.036	21.165	490.483	13702.80	703.31	10380.91	21.38
215	11	15	146.88	146.63	4354.50	0.00	1.15	0.419	0.036	21.165	490.483	13702.81	703.31	10380.92	21.39
216	11	16	146.63	146.38	4355.65	0.00	1.15	0.420	0.036	21.165	490.483	13702.82	703.31	10380.93	21.39
217	11	17	146.38	146.13	4356.80	0.00	1.15	0.420	0.036	21.165	490.483	13702.83	703.31	10380.93	21.40
218	11	18	146.13	145.88	4357.95	0.00	1.15	0.420	0.036	21.165	490.483	13702.84	703.31	10380.94	21.41
219	11	19	145.88	145.63	4359.10	0.00	1.15	0.420	0.036	21.165	490.484	13702.86	703.31	10380.95	21.41
220	11	20	145.63	145.38	4360.25	0.00	1.15	0.420	0.036	21.165	490.484	13702.87	703.31	10380.96	21.42

221	12	1	145.38	145.13	4361.40	0.00	1.15	0.347	0.044	26.803	468.422	16572.54	689.08	12554.96	21.56
222	12	2	145.13	144.88	4362.55	0.00	1.15	0.347	0.044	26.803	468.422	16572.55	689.08	12554.96	21.57
223	12	3	144.88	144.63	4363.70	0.00	1.15	0.348	0.044	26.803	468.423	16572.56	689.08	12554.97	21.58
224	12	4	144.63	144.38	4364.85	0.00	1.15	0.348	0.044	26.803	468.423	16572.57	689.08	12554.98	21.58
225	12	5	144.38	144.13	4366.00	0.00	1.15	0.348	0.044	26.803	468.423	16572.58	689.08	12554.99	21.59
226	12	6	144.13	143.88	4367.15	0.00	1.15	0.348	0.044	26.803	468.423	16572.59	689.08	12554.99	21.59
227	12	7	143.88	143.63	4368.30	0.00	1.15	0.348	0.044	26.803	468.423	16572.60	689.08	12555.00	21.60
228	12	8	143.63	143.38	4369.45	0.00	1.15	0.348	0.044	26.803	468.423	16572.61	689.08	12555.01	21.60
229	12	9	143.38	143.13	4370.60	0.00	1.15	0.348	0.044	26.803	468.423	16572.62	689.08	12555.02	21.61
230	12	10	143.13	142.88	4371.75	0.00	1.15	0.348	0.044	26.803	468.423	16572.63	689.08	12555.02	21.62
231	12	11	142.88	142.63	4372.90	0.00	1.15	0.348	0.044	26.803	468.424	16572.64	689.08	12555.03	21.62
232	12	12	142.63	142.38	4374.05	0.00	1.15	0.348	0.044	26.803	468.424	16572.65	689.08	12555.04	21.63
233	12	13	142.38	142.13	4375.20	0.00	1.15	0.348	0.044	26.803	468.424	16572.66	689.08	12555.05	21.63
234	12	14	142.13	141.88	4376.35	0.00	1.15	0.349	0.044	26.803	468.424	16572.67	689.08	12555.05	21.64
235	12	15	141.88	141.63	4377.50	0.00	1.15	0.349	0.044	26.803	468.424	16572.68	689.08	12555.06	21.64
236	12	16	141.63	141.38	4378.65	0.00	1.15	0.349	0.044	26.803	468.424	16572.69	689.08	12555.07	21.65
237	12	17	141.38	141.13	4379.80	0.00	1.15	0.349	0.044	26.803	468.424	16572.70	689.08	12555.08	21.66
238	12	18	141.13	140.88	4380.95	0.00	1.15	0.349	0.044	26.803	468.424	16572.71	689.08	12555.09	21.66
239	12	19	140.88	140.63	4382.10	0.00	1.15	0.349	0.044	26.803	468.424	16572.72	689.08	12555.09	21.67
240	12	20	140.63	140.38	4383.25	0.00	1.15	0.349	0.044	26.803	468.425	16572.73	689.08	12555.10	21.67
241	13	1	140.38	140.13	4384.40	0.00	1.15	0.303	0.050	32.516	444.908	19095.84	673.12	14466.55	22.10
242	13	2	140.13	139.88	4385.55	0.00	1.15	0.303	0.050	32.516	444.909	19095.85	673.12	14466.55	22.10
243	13	3	139.88	139.63	4386.70	0.00	1.15	0.303	0.050	32.516	444.909	19095.86	673.12	14466.56	22.11
244	13	4	139.63	139.38	4387.85	0.00	1.15	0.303	0.050	32.516	444.909	19095.87	673.12	14466.56	22.12
245	13	5	139.38	139.13	4389.00	0.00	1.15	0.303	0.050	32.516	444.909	19095.87	673.12	14466.57	22.12
246	13	6	139.13	138.88	4390.15	0.00	1.15	0.303	0.050	32.516	444.909	19095.88	673.12	14466.57	22.13
247	13	7	138.88	138.63	4391.30	0.00	1.15	0.304	0.050	32.516	444.909	19095.89	673.12	14466.58	22.13
248	13	8	138.63	138.38	4392.45	0.00	1.15	0.304	0.050	32.516	444.909	19095.89	673.12	14466.59	22.14
249	13	9	138.38	138.13	4393.60	0.00	1.15	0.304	0.050	32.516	444.909	19095.90	673.12	14466.59	22.15
250	13	10	138.13	137.88	4394.75	0.00	1.15	0.304	0.050	32.516	444.909	19095.91	673.12	14466.60	22.15
251	13	11	137.88	137.63	4395.90	0.00	1.15	0.304	0.050	32.516	444.909	19095.92	673.12	14466.60	22.16
252	13	12	137.63	137.38	4397.04	0.00	1.15	0.304	0.050	32.516	444.909	19095.93	673.12	14466.61	22.16

***** STEADY STATE SIMULATION *****

** HYDRAULICS SUMMARY **

ELE ORD	RCH NUM	ELE NUM	BEGIN LOC MILE	END LOC MILE	FLOW CFS	POINT SRCE CFS	INCR FLOW CFS	VEL FPS	TRVL TIME DAY	DEPTH FT	WIDTH FT	VOLUME K-FT-3	BOTTOM AREA K-FT-2	X-SECT AREA FT-2	DSPRSN COEF FT-2/S
253	13	13	137.38	137.13	4398.19	0.00	1.15	0.304	0.050	32.516	444.909	19095.93	673.12	14466.62	22.17
254	13	14	137.13	136.88	4399.34	0.00	1.15	0.304	0.050	32.516	444.910	19095.94	673.12	14466.62	22.17
255	13	15	136.88	136.63	4400.49	0.00	1.15	0.304	0.050	32.516	444.910	19095.95	673.12	14466.63	22.18
256	13	16	136.63	136.38	4401.64	0.00	1.15	0.304	0.050	32.516	444.910	19095.95	673.12	14466.63	22.19
257	13	17	136.38	136.13	4402.79	0.00	1.15	0.304	0.050	32.516	444.910	19095.96	673.12	14466.64	22.19
258	13	18	136.13	135.88	4403.94	0.00	1.15	0.304	0.050	32.516	444.910	19095.97	673.12	14466.64	22.20
259	13	19	135.88	135.63	4405.09	0.00	1.15	0.304	0.050	32.516	444.910	19095.98	673.12	14466.65	22.20
260	13	20	135.63	135.38	4406.24	0.00	1.15	0.305	0.050	32.516	444.910	19095.98	673.12	14466.65	22.21

261	14	1	135.38	135.13	4407.39	0.00	1.15	0.296	0.052	29.930	497.365	19649.56	735.54	14886.03	20.15
262	14	2	135.13	134.88	4408.54	0.00	1.15	0.296	0.052	29.930	497.365	19649.57	735.54	14886.03	20.15
263	14	3	134.88	134.63	4409.69	0.00	1.15	0.296	0.052	29.930	497.365	19649.57	735.54	14886.04	20.16
264	14	4	134.63	134.38	4410.84	0.00	1.15	0.296	0.052	29.930	497.365	19649.58	735.54	14886.04	20.16
265	14	5	134.38	134.13	4411.99	0.00	1.15	0.296	0.052	29.930	497.365	19649.58	735.54	14886.05	20.17
266	14	6	134.13	133.88	4413.14	0.00	1.15	0.296	0.052	29.930	497.365	19649.59	735.54	14886.05	20.18
267	14	7	133.88	133.63	4414.29	0.00	1.15	0.297	0.052	29.930	497.365	19649.60	735.54	14886.06	20.18
268	14	8	133.63	133.38	4415.44	0.00	1.15	0.297	0.052	29.930	497.365	19649.60	735.54	14886.06	20.19
269	14	9	133.38	133.13	4416.59	0.00	1.15	0.297	0.051	29.930	497.365	19649.61	735.54	14886.07	20.19
270	14	10	133.13	132.88	4417.74	0.00	1.15	0.297	0.051	29.930	497.365	19649.61	735.54	14886.07	20.20
271	14	11	132.88	132.63	4418.89	0.00	1.15	0.297	0.051	29.930	497.365	19649.62	735.54	14886.07	20.20
272	14	12	132.63	132.38	4420.04	0.00	1.15	0.297	0.051	29.930	497.366	19649.62	735.54	14886.08	20.21
273	14	13	132.38	132.13	4421.19	0.00	1.15	0.297	0.051	29.930	497.366	19649.63	735.54	14886.08	20.21
274	14	14	132.13	131.88	4422.34	0.00	1.15	0.297	0.051	29.930	497.366	19649.63	735.54	14886.09	20.22
275	14	15	131.88	131.63	4423.49	0.00	1.15	0.297	0.051	29.930	497.366	19649.64	735.54	14886.09	20.22
276	14	16	131.63	131.38	4424.64	0.00	1.15	0.297	0.051	29.930	497.366	19649.65	735.54	14886.10	20.23
277	14	17	131.38	131.13	4425.79	0.00	1.15	0.297	0.051	29.930	497.366	19649.65	735.54	14886.10	20.23
278	14	18	131.13	130.88	4426.94	0.00	1.15	0.297	0.051	29.930	497.366	19649.66	735.54	14886.10	20.24
279	14	19	130.88	130.63	4428.09	0.00	1.15	0.297	0.051	29.930	497.366	19649.66	735.54	14886.11	20.24
280	14	20	130.63	130.38	4429.24	0.00	1.15	0.298	0.051	29.930	497.366	19649.67	735.54	14886.11	20.25
281	15	1	130.38	130.13	4430.39	0.00	1.15	0.295	0.052	27.335	548.773	19800.99	796.54	15000.75	18.64
282	15	2	130.13	129.88	4431.54	0.00	1.15	0.295	0.052	27.335	548.773	19800.99	796.54	15000.75	18.64
283	15	3	129.88	129.63	4432.69	0.00	1.15	0.295	0.052	27.335	548.773	19801.00	796.54	15000.75	18.65
284	15	4	129.63	129.38	4433.84	0.00	1.15	0.296	0.052	27.335	548.773	19801.00	796.54	15000.76	18.65
285	15	5	129.38	129.13	4434.99	0.00	1.15	0.296	0.052	27.335	548.773	19801.00	796.54	15000.76	18.66
286	15	6	129.13	128.88	4436.14	0.00	1.15	0.296	0.052	27.335	548.773	19801.01	796.54	15000.76	18.66
287	15	7	128.88	128.63	4437.29	0.00	1.15	0.296	0.052	27.335	548.773	19801.01	796.55	15000.76	18.67
288	15	8	128.63	128.38	4438.44	0.00	1.15	0.296	0.052	27.335	548.773	19801.01	796.55	15000.77	18.67
289	15	9	128.38	128.13	4439.59	0.00	1.15	0.296	0.052	27.335	548.773	19801.02	796.55	15000.77	18.68
290	15	10	128.13	127.88	4440.74	0.00	1.15	0.296	0.052	27.335	548.773	19801.02	796.55	15000.77	18.68
291	15	11	127.88	127.63	4441.89	0.00	1.15	0.296	0.052	27.335	548.773	19801.02	796.55	15000.77	18.69
292	15	12	127.63	127.38	4443.04	0.00	1.15	0.296	0.052	27.335	548.773	19801.03	796.55	15000.78	18.69
293	15	13	127.38	127.13	4444.19	0.00	1.15	0.296	0.052	27.335	548.773	19801.03	796.55	15000.78	18.69
294	15	14	127.13	126.88	4445.34	0.00	1.15	0.296	0.052	27.335	548.773	19801.03	796.55	15000.78	18.70

***** STEADY STATE SIMULATION *****

** HYDRAULICS SUMMARY **

ELE ORD	RCH NUM	ELE NUM	BEGIN LOC MILE	END LOC MILE	FLOW CFS	POINT SRCE CFS	INCR FLOW CFS	VEL FPS	TRVL TIME DAY	DEPTH FT	WIDTH FT	VOLUME K-FT-3	BOTTOM AREA K-FT-2	X-SECT AREA FT-2	DSPRSN COEF FT-2/S
295	15	15	126.88	126.63	4446.49	0.00	1.15	0.296	0.052	27.335	548.773	19801.04	796.55	15000.78	18.70
296	15	16	126.63	126.38	4447.64	0.00	1.15	0.296	0.052	27.335	548.774	19801.04	796.55	15000.79	18.71
297	15	17	126.38	126.13	4448.79	0.00	1.15	0.297	0.052	27.335	548.774	19801.04	796.55	15000.79	18.71
298	15	18	126.13	125.88	4449.94	0.00	1.15	0.297	0.052	27.335	548.774	19801.04	796.55	15000.79	18.72

299	15	19	125.88	125.63	4451.09	0.00	1.15	0.297	0.051	27.335	548.774	19801.05	796.55	15000.79	18.72
300	15	20	125.63	125.38	4452.24	0.00	1.15	0.297	0.051	27.335	548.774	19801.05	796.55	15000.79	18.73
301	16	1	125.38	125.13	4453.39	0.00	1.15	0.299	0.051	24.744	601.243	19637.88	858.97	14877.18	17.39
302	16	2	125.13	124.88	4454.54	0.00	1.15	0.299	0.051	24.744	601.243	19637.88	858.97	14877.18	17.39
303	16	3	124.88	124.63	4455.69	0.00	1.15	0.299	0.051	24.744	601.243	19637.89	858.97	14877.19	17.39
304	16	4	124.63	124.38	4456.84	0.00	1.15	0.300	0.051	24.744	601.243	19637.89	858.97	14877.19	17.40
305	16	5	124.38	124.13	4457.99	0.00	1.15	0.300	0.051	24.744	601.243	19637.89	858.97	14877.19	17.40
306	16	6	124.13	123.88	4459.14	0.00	1.15	0.300	0.051	24.744	601.243	19637.89	858.97	14877.19	17.41
307	16	7	123.88	123.63	4460.29	0.00	1.15	0.300	0.051	24.744	601.243	19637.90	858.97	14877.19	17.41
308	16	8	123.63	123.38	4461.44	0.00	1.15	0.300	0.051	24.744	601.244	19637.90	858.97	14877.20	17.42
309	16	9	123.38	123.13	4462.59	0.00	1.15	0.300	0.051	24.744	601.244	19637.90	858.97	14877.20	17.42
310	16	10	123.13	122.88	4463.74	0.00	1.15	0.300	0.051	24.744	601.244	19637.90	858.97	14877.20	17.43
311	16	11	122.88	122.63	4464.89	0.00	1.15	0.300	0.051	24.744	601.244	19637.91	858.97	14877.20	17.43
312	16	12	122.63	122.38	4466.04	0.00	1.15	0.300	0.051	24.744	601.244	19637.91	858.97	14877.20	17.43
313	16	13	122.38	122.13	4467.19	0.00	1.15	0.300	0.051	24.744	601.244	19637.91	858.97	14877.21	17.44
314	16	14	122.13	121.88	4468.34	0.00	1.15	0.300	0.051	24.744	601.244	19637.91	858.97	14877.21	17.44
315	16	15	121.88	121.63	4469.49	0.00	1.15	0.300	0.051	24.744	601.244	19637.92	858.97	14877.21	17.45
316	16	16	121.63	121.38	4470.64	0.00	1.15	0.301	0.051	24.744	601.244	19637.92	858.97	14877.21	17.45
317	16	17	121.38	121.13	4471.79	0.00	1.15	0.301	0.051	24.744	601.244	19637.92	858.97	14877.21	17.46
318	16	18	121.13	120.88	4472.94	0.00	1.15	0.301	0.051	24.744	601.244	19637.93	858.97	14877.21	17.46
319	16	19	120.88	120.63	4474.09	0.00	1.15	0.301	0.051	24.744	601.244	19637.93	858.97	14877.22	17.47
320	16	20	120.63	120.38	4475.24	0.00	1.15	0.301	0.051	24.744	601.244	19637.93	858.97	14877.22	17.47
321	17	1	120.38	120.13	4477.15	0.00	1.92	0.307	0.050	22.510	647.180	19230.14	913.71	14568.29	16.50
322	17	2	120.13	119.88	4479.07	0.00	1.92	0.307	0.050	22.510	647.180	19230.14	913.71	14568.29	16.50
323	17	3	119.88	119.63	4480.99	0.00	1.92	0.308	0.050	22.510	647.180	19230.14	913.71	14568.29	16.51
324	17	4	119.63	119.38	4482.90	0.00	1.92	0.308	0.050	22.510	647.180	19230.14	913.71	14568.29	16.52
325	17	5	119.38	119.13	4484.82	0.00	1.92	0.308	0.050	22.510	647.180	19230.14	913.71	14568.29	16.52
326	17	6	119.13	118.88	4486.74	0.00	1.92	0.308	0.050	22.510	647.180	19230.14	913.71	14568.29	16.53
327	17	7	118.88	118.63	4488.65	0.00	1.92	0.308	0.050	22.510	647.180	19230.14	913.71	14568.29	16.54
328	17	8	118.63	118.38	4490.57	0.00	1.92	0.308	0.050	22.510	647.180	19230.14	913.71	14568.29	16.55
329	17	9	118.38	118.13	4492.49	0.00	1.92	0.308	0.050	22.510	647.180	19230.14	913.71	14568.29	16.55
330	17	10	118.13	117.88	4494.40	0.00	1.92	0.309	0.050	22.510	647.180	19230.14	913.71	14568.29	16.56
331	17	11	117.88	117.63	4496.32	0.00	1.92	0.309	0.050	22.510	647.180	19230.15	913.71	14568.29	16.57
332	17	12	117.63	117.38	4498.24	0.00	1.92	0.309	0.049	22.510	647.180	19230.15	913.71	14568.29	16.57

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 9
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** REACTION COEFFICIENT SUMMARY **

RCH NUM	ELE NUM	DO SAT MG/L	K2 OPT	OXYGN REAIR 1/DAY	BOD DECAY 1/DAY	BOD SETT 1/DAY	SOD RATE G/F2D	ORGN DECAY 1/DAY	ORGN SETT 1/DAY	NH3 DECAY 1/DAY	NH3 SRCE MG/F2D	NO2 DECAY 1/DAY	ORGP DECAY 1/DAY	ORGP SETT 1/DAY	DISP SRCE MG/F2D	COLI DECAY 1/DAY	ANC DECAY 1/DAY	ANC SETT 1/DAY	ANC SRCE MG/F2D
1	1	7.42	1	0.21	0.05	0.01	0.00	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	2	7.42	1	0.21	0.05	0.01	0.00	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00

1	3	7.42	1	0.21	0.05	0.01	0.00	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	4	7.42	1	0.21	0.05	0.01	0.00	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	5	7.42	1	0.21	0.05	0.01	0.00	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	6	7.42	1	0.21	0.05	0.01	0.00	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	7	7.42	1	0.21	0.05	0.01	0.00	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	8	7.42	1	0.21	0.05	0.01	0.00	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	9	7.42	1	0.21	0.05	0.01	0.00	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	10	7.42	1	0.21	0.05	0.01	0.00	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	11	7.42	1	0.21	0.05	0.01	0.00	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	12	7.42	1	0.21	0.05	0.01	0.00	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	13	7.42	1	0.21	0.05	0.01	0.00	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	14	7.42	1	0.21	0.05	0.01	0.00	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	15	7.41	1	0.21	0.05	0.01	0.00	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	16	7.41	1	0.21	0.05	0.01	0.00	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	17	7.41	1	0.21	0.05	0.01	0.00	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	18	7.41	1	0.21	0.05	0.01	0.00	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	19	7.41	1	0.21	0.05	0.01	0.00	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	20	7.41	1	0.21	0.05	0.01	0.00	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	1	7.41	1	0.23	0.05	0.01	0.00	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	2	7.41	1	0.25	0.05	0.01	0.00	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	3	7.41	1	0.25	0.05	0.01	0.00	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	4	7.41	1	0.25	0.05	0.01	0.00	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	5	7.41	1	0.25	0.05	0.01	0.00	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	6	7.41	1	0.25	0.05	0.01	0.00	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	7	7.41	1	0.25	0.05	0.01	0.00	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	8	7.42	1	0.25	0.05	0.01	0.00	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	9	7.42	1	0.25	0.05	0.01	0.00	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	10	7.41	1	0.25	0.05	0.01	0.00	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	11	7.41	1	0.25	0.05	0.01	0.00	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	12	7.35	1	0.25	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	13	7.35	1	0.25	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	14	7.35	1	0.25	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	15	7.35	1	0.25	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	16	7.35	1	0.25	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	17	7.35	1	0.25	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	18	7.35	1	0.25	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	19	7.35	1	0.25	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	20	7.35	1	0.25	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	1	7.35	1	0.27	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	2	7.35	1	0.30	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 10
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** REACTION COEFFICIENT SUMMARY **

RCH NUM	ELE NUM	DO SAT	K2 OPT	OXYGN REAIR	BOD DECAY	BOD SETT	SOD RATE	ORGN DECAY	ORGN SETT	NH3 DECAY	NH3 SRCE	NO2 DECAY	ORGP DECAY	ORGP SETT	DISP SRCE	COLI DECAY	ANC DECAY	ANC SETT	ANC SRCE

		MG/L		1/DAY	1/DAY	1/DAY	G/F2D	1/DAY	1/DAY	1/DAY	MG/F2D	1/DAY	1/DAY	1/DAY	MG/F2D	1/DAY	1/DAY	1/DAY	MG/F2D
3	3	7.35	1	0.30	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	4	7.35	1	0.30	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	5	7.35	1	0.30	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	6	7.35	1	0.30	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	7	7.35	1	0.30	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	8	7.35	1	0.30	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	9	7.35	1	0.30	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	10	7.35	1	0.30	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	11	7.35	1	0.30	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	12	7.35	1	0.30	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	13	7.35	1	0.30	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	14	7.35	1	0.30	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	15	7.35	1	0.30	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	16	7.35	1	0.30	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	17	7.35	1	0.30	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	18	7.35	1	0.30	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	19	7.35	1	0.30	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	20	7.35	1	0.30	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	1	7.35	1	0.24	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	2	7.35	1	0.18	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	3	7.35	1	0.18	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	4	7.35	1	0.18	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	5	7.35	1	0.18	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	6	7.35	1	0.18	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	7	7.35	1	0.18	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	8	7.35	1	0.18	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	9	7.35	1	0.18	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	10	7.35	1	0.18	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	11	7.35	1	0.18	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	12	7.35	1	0.18	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	13	7.35	1	0.18	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	14	7.35	1	0.18	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	15	7.35	1	0.18	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	16	7.35	1	0.18	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	17	7.35	1	0.18	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	18	7.35	1	0.18	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	19	7.35	1	0.18	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	20	7.35	1	0.18	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	1	7.35	1	0.16	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	2	7.35	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	3	7.35	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	4	7.35	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00

** REACTION COEFFICIENT SUMMARY **

RCH NUM	ELE NUM	DO SAT MG/L	K2 OPT	OXYGN REAIR 1/DAY	BOD DECAY 1/DAY	BOD SETT 1/DAY	SOD RATE G/F2D	ORGN DECAY 1/DAY	ORGN SETT 1/DAY	NH3 DECAY 1/DAY	NH3 SRCE MG/F2D	NO2 DECAY 1/DAY	ORGP DECAY 1/DAY	ORGP SETT 1/DAY	DISP SRCE MG/F2D	COLI DECAY 1/DAY	ANC DECAY 1/DAY	ANC SETT 1/DAY	ANC SRCE MG/F2D
5	5	7.35	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	6	7.35	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	7	7.35	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	8	7.35	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	9	7.35	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	10	7.35	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	11	7.35	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	12	7.35	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	13	7.35	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	14	7.35	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	15	7.35	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	16	7.35	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	17	7.35	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	18	7.35	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	19	7.34	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	20	7.34	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	1	7.35	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	2	7.34	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	3	7.35	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	4	7.34	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	5	7.34	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	6	7.35	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	7	7.34	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	8	7.34	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	9	7.34	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	10	7.34	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	11	7.34	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	12	7.34	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	13	7.34	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	14	7.34	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	15	7.34	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	16	7.34	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	17	7.34	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	18	7.34	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	19	7.34	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	20	7.34	1	0.14	0.06	0.01	0.00	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	1	7.34	1	0.14	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	2	7.34	1	0.14	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	3	7.34	1	0.14	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	4	7.34	1	0.14	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	5	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	6	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 12
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** REACTION COEFFICIENT SUMMARY **

RCH NUM	ELE NUM	DO SAT MG/L	K2 OPT	OXYGN REAIR 1/DAY	BOD DECAY 1/DAY	BOD SETT 1/DAY	SOD RATE G/F2D	ORGN DECAY 1/DAY	ORGN SETT 1/DAY	NH3 DECAY 1/DAY	NH3 SRCE MG/F2D	NO2 DECAY 1/DAY	ORGP DECAY 1/DAY	ORGP SETT 1/DAY	DISP SRCE MG/F2D	COLI DECAY 1/DAY	ANC DECAY 1/DAY	ANC SETT 1/DAY	ANC SRCE MG/F2D
7	7	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	8	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	9	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	10	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	11	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	12	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	13	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	14	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	15	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	16	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	17	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	18	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	19	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	20	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	1	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	2	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	3	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	4	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	5	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	6	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	7	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	8	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	9	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	10	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	11	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	12	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	13	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	14	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	15	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	16	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	17	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	18	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	19	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	20	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	1	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	2	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	3	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	4	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	5	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00

9	6	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	7	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	8	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 13
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** REACTION COEFFICIENT SUMMARY **

RCH NUM	ELE NUM	DO SAT MG/L	K2 OPT	OXYGN REAIR 1/DAY	BOD DECAY 1/DAY	BOD SETT 1/DAY	SOD RATE G/F2D	ORGN DECAY 1/DAY	ORGN SETT 1/DAY	NH3 DECAY 1/DAY	NH3 SRCE MG/F2D	NO2 DECAY 1/DAY	ORGP DECAY 1/DAY	ORGP SETT 1/DAY	DISP SRCE MG/F2D	COLI DECAY 1/DAY	ANC DECAY 1/DAY	ANC SETT 1/DAY	ANC SRCE MG/F2D
9	9	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	10	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	11	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	12	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	13	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	14	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	15	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	16	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	17	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	18	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	19	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	20	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	1	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	2	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	3	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	4	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	5	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	6	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	7	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	8	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	9	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	10	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	11	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	12	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	13	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	14	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	15	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	16	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	17	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	18	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	19	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	20	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	1	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	2	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	3	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00

11	4	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	5	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	6	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	7	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	8	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	9	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	10	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 14
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** REACTION COEFFICIENT SUMMARY **

RCH NUM	ELE NUM	DO SAT MG/L	K2 OPT	OXYGN REAIR 1/DAY	BOD DECAY 1/DAY	BOD SETT 1/DAY	SOD RATE G/F2D	ORGN DECAY 1/DAY	ORGN SETT 1/DAY	NH3 DECAY 1/DAY	NH3 SRCE MG/F2D	NO2 DECAY 1/DAY	ORGP DECAY 1/DAY	ORGP SETT 1/DAY	DISP SRCE MG/F2D	COLI DECAY 1/DAY	ANC DECAY 1/DAY	ANC SETT 1/DAY	ANC SRCE MG/F2D
11	11	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	12	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	13	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	14	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	15	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	16	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	17	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	18	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	19	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	20	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	1	7.33	1	0.14	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	2	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	3	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	4	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	5	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	6	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	7	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	8	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	9	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	10	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	11	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	12	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	13	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	14	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	15	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	16	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	17	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	18	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	19	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	20	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	1	7.33	1	0.11	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00

13	2	7.33	1	0.10	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	3	7.33	1	0.10	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	4	7.33	1	0.10	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	5	7.33	1	0.10	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	6	7.33	1	0.10	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	7	7.33	1	0.10	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	8	7.33	1	0.10	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	9	7.33	1	0.10	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	10	7.33	1	0.10	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	11	7.33	1	0.10	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	12	7.33	1	0.10	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 15
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** REACTION COEFFICIENT SUMMARY **

RCH NUM	ELE NUM	DO SAT MG/L	K2 OPT	OXYGN REAIR 1/DAY	BOD DECAY 1/DAY	BOD SETT 1/DAY	SOD RATE G/F2D	ORGN DECAY 1/DAY	ORGN SETT 1/DAY	NH3 DECAY 1/DAY	NH3 SRCE MG/F2D	NO2 DECAY 1/DAY	ORGP DECAY 1/DAY	ORGP SETT 1/DAY	DISP SRCE MG/F2D	COLI DECAY 1/DAY	ANC DECAY 1/DAY	ANC SETT 1/DAY	ANC SRCE MG/F2D
13	13	7.33	1	0.10	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	14	7.33	1	0.10	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	15	7.33	1	0.10	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	16	7.33	1	0.10	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	17	7.33	1	0.10	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	18	7.33	1	0.10	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	19	7.33	1	0.10	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	20	7.33	1	0.10	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	1	7.33	1	0.10	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	2	7.33	1	0.11	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	3	7.33	1	0.11	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	4	7.33	1	0.11	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	5	7.33	1	0.11	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	6	7.33	1	0.11	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	7	7.33	1	0.11	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	8	7.33	1	0.11	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	9	7.33	1	0.11	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	10	7.33	1	0.11	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	11	7.33	1	0.11	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	12	7.33	1	0.11	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	13	7.33	1	0.11	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	14	7.33	1	0.11	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	15	7.33	1	0.11	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	16	7.33	1	0.11	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	17	7.33	1	0.11	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	18	7.33	1	0.11	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	19	7.33	1	0.11	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	20	7.33	1	0.11	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00

15	1	7.33	1	0.11	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	2	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	3	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	4	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	5	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	6	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	7	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	8	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	9	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	10	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	11	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	12	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	13	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	14	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 16
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** REACTION COEFFICIENT SUMMARY **

RCH NUM	ELE NUM	DO SAT MG/L	K2 OPT	OXYGN REAIR 1/DAY	BOD DECAY 1/DAY	BOD SETT 1/DAY	SOD RATE G/F2D	ORGN DECAY 1/DAY	ORGN SETT 1/DAY	NH3 DECAY 1/DAY	NH3 SRCE MG/F2D	NO2 DECAY 1/DAY	ORGP DECAY 1/DAY	ORGP SETT 1/DAY	DISP SRCE MG/F2D	COLI DECAY 1/DAY	ANC DECAY 1/DAY	ANC SETT 1/DAY	ANC SRCE MG/F2D
15	15	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	16	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	17	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	18	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	19	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	20	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	1	7.33	1	0.12	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	2	7.33	1	0.13	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	3	7.33	1	0.13	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	4	7.33	1	0.13	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	5	7.33	1	0.13	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	6	7.33	1	0.13	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	7	7.33	1	0.13	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	8	7.33	1	0.13	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	9	7.33	1	0.13	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	10	7.33	1	0.13	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	11	7.33	1	0.13	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	12	7.33	1	0.13	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	13	7.33	1	0.13	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	14	7.33	1	0.13	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	15	7.33	1	0.13	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	16	7.33	1	0.13	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	17	7.33	1	0.13	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	18	7.33	1	0.13	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	19	7.33	1	0.13	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00

16	20	7.33	1	0.13	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
17	1	7.33	1	0.14	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
17	2	7.33	1	0.14	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
17	3	7.33	1	0.14	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
17	4	7.33	1	0.14	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
17	5	7.33	1	0.14	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
17	6	7.33	1	0.14	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
17	7	7.33	1	0.14	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
17	8	7.33	1	0.14	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
17	9	7.33	1	0.14	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
17	10	7.33	1	0.14	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
17	11	7.33	1	0.14	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
17	12	7.33	1	0.14	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 17
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** WATER QUALITY VARIABLES **

RCH NUM	ELE NUM	TEMP DEG-F	CM-1 CHLO MG/L	CM-2 COND MG/L	CM-3	DO MG/L	BOD MG/L	ORGN MG/L	NH3N MG/L	NO2N MG/L	NO3N MG/L	SUM-N MG/L	ORGP MG/L	DIS-P MG/L	SUM-P MG/L	COLI #/100ML	ANC	CHLA UG/L
1	1	88.31	9.90	111.00	0.00	5.87	5.03	0.65	0.03	0.00	0.17	0.85	0.04	0.02	0.06	0.00	0.00	12.39
1	2	88.31	9.90	110.99	0.00	5.87	5.02	0.65	0.03	0.00	0.17	0.85	0.04	0.02	0.06	0.00	0.00	12.39
1	3	88.32	9.90	110.99	0.00	5.87	5.01	0.65	0.03	0.00	0.17	0.85	0.04	0.02	0.06	0.00	0.00	12.38
1	4	88.32	9.90	110.99	0.00	5.87	4.99	0.65	0.03	0.00	0.17	0.85	0.04	0.02	0.06	0.00	0.00	12.38
1	5	88.33	9.90	110.98	0.00	5.87	4.98	0.65	0.03	0.00	0.17	0.85	0.04	0.02	0.06	0.00	0.00	12.37
1	6	88.33	9.90	110.98	0.00	5.87	4.97	0.65	0.03	0.00	0.17	0.85	0.04	0.02	0.06	0.00	0.00	12.37
1	7	88.34	9.90	110.98	0.00	5.87	4.96	0.64	0.03	0.00	0.17	0.85	0.04	0.02	0.06	0.00	0.00	12.36
1	8	88.34	9.90	110.97	0.00	5.87	4.95	0.64	0.03	0.00	0.17	0.85	0.04	0.02	0.06	0.00	0.00	12.36
1	9	88.35	9.90	110.97	0.00	5.87	4.94	0.64	0.03	0.00	0.17	0.85	0.04	0.02	0.06	0.00	0.00	12.35
1	10	88.35	9.90	110.97	0.00	5.87	4.93	0.64	0.03	0.00	0.17	0.85	0.04	0.02	0.06	0.00	0.00	12.35
1	11	88.36	9.90	110.96	0.00	5.87	4.92	0.64	0.03	0.00	0.17	0.84	0.04	0.02	0.06	0.00	0.00	12.34
1	12	88.37	9.90	110.96	0.00	5.87	4.90	0.64	0.03	0.00	0.17	0.84	0.04	0.02	0.06	0.00	0.00	12.34
1	13	88.37	9.90	110.96	0.00	5.87	4.89	0.64	0.03	0.00	0.17	0.84	0.04	0.02	0.06	0.00	0.00	12.33
1	14	88.38	9.90	110.95	0.00	5.87	4.88	0.64	0.03	0.00	0.17	0.84	0.04	0.02	0.06	0.00	0.00	12.33
1	15	88.38	9.90	110.95	0.00	5.87	4.87	0.64	0.03	0.00	0.17	0.84	0.04	0.02	0.06	0.00	0.00	12.32
1	16	88.39	9.90	110.95	0.00	5.87	4.86	0.64	0.03	0.00	0.17	0.84	0.04	0.02	0.06	0.00	0.00	12.32
1	17	88.39	9.90	110.94	0.00	5.87	4.85	0.64	0.03	0.01	0.17	0.84	0.04	0.02	0.06	0.00	0.00	12.31
1	18	88.40	9.90	110.94	0.00	5.87	4.84	0.64	0.03	0.01	0.17	0.84	0.04	0.02	0.06	0.00	0.00	12.31
1	19	88.40	9.90	110.94	0.00	5.87	4.83	0.63	0.03	0.01	0.17	0.84	0.04	0.02	0.06	0.00	0.00	12.30
1	20	88.41	9.90	110.93	0.00	5.87	4.82	0.63	0.03	0.01	0.17	0.84	0.04	0.02	0.06	0.00	0.00	12.30
2	1	88.41	9.90	110.93	0.00	5.87	4.81	0.63	0.03	0.01	0.17	0.84	0.04	0.02	0.06	0.00	0.00	12.29
2	2	88.42	9.90	110.93	0.00	5.87	4.80	0.63	0.03	0.01	0.17	0.84	0.04	0.02	0.06	0.00	0.00	12.29
2	3	88.42	9.90	110.92	0.00	5.87	4.79	0.63	0.03	0.01	0.17	0.84	0.04	0.02	0.06	0.00	0.00	12.29

2	4	88.43	9.90	110.92	0.00	5.88	4.78	0.63	0.03	0.01	0.17	0.84	0.04	0.02	0.06	0.00	0.00	12.28
2	5	88.43	9.90	110.92	0.00	5.88	4.77	0.63	0.03	0.01	0.17	0.84	0.04	0.02	0.06	0.00	0.00	12.28
2	6	88.44	9.90	110.91	0.00	5.88	4.76	0.63	0.03	0.01	0.17	0.84	0.04	0.02	0.06	0.00	0.00	12.28
2	7	88.44	9.90	110.93	0.00	5.88	4.75	0.63	0.03	0.01	0.17	0.84	0.04	0.02	0.06	0.00	0.00	12.28
2	8	88.37	9.96	111.73	0.00	5.88	4.78	0.63	0.03	0.01	0.17	0.84	0.05	0.02	0.07	0.00	0.00	12.33
2	9	88.38	9.96	111.73	0.00	5.88	4.77	0.63	0.03	0.01	0.17	0.83	0.05	0.02	0.07	0.00	0.00	12.32
2	10	88.38	9.96	111.73	0.00	5.89	4.76	0.63	0.03	0.01	0.17	0.83	0.05	0.02	0.07	0.00	0.00	12.32
2	11	88.41	9.96	111.71	0.00	5.89	4.75	0.63	0.03	0.01	0.17	0.83	0.05	0.02	0.07	0.00	0.00	12.30
2	12	89.34	9.96	111.36	0.00	5.87	4.75	0.63	0.03	0.01	0.17	0.83	0.05	0.02	0.07	0.00	0.00	11.54
2	13	89.34	9.96	111.35	0.00	5.88	4.74	0.62	0.03	0.01	0.17	0.83	0.05	0.02	0.07	0.00	0.00	11.53
2	14	89.34	9.96	111.35	0.00	5.88	4.73	0.62	0.03	0.01	0.17	0.83	0.05	0.02	0.07	0.00	0.00	11.53
2	15	89.34	9.96	111.35	0.00	5.88	4.72	0.62	0.03	0.01	0.17	0.83	0.05	0.02	0.07	0.00	0.00	11.53
2	16	89.34	9.96	111.35	0.00	5.88	4.71	0.62	0.03	0.01	0.17	0.83	0.05	0.02	0.07	0.00	0.00	11.53
2	17	89.34	9.97	111.48	0.00	5.88	4.70	0.62	0.03	0.01	0.17	0.83	0.05	0.02	0.07	0.00	0.00	11.52
2	18	89.34	9.97	111.48	0.00	5.88	4.69	0.62	0.03	0.01	0.17	0.83	0.05	0.02	0.07	0.00	0.00	11.52
2	19	89.34	9.97	111.47	0.00	5.88	4.69	0.62	0.03	0.01	0.17	0.83	0.05	0.02	0.07	0.00	0.00	11.52
2	20	89.34	9.97	111.47	0.00	5.88	4.68	0.62	0.03	0.01	0.17	0.83	0.05	0.02	0.07	0.00	0.00	11.51
3	1	89.34	9.97	111.46	0.00	5.88	4.68	0.62	0.03	0.01	0.17	0.83	0.05	0.02	0.07	0.00	0.00	11.51
3	2	89.34	9.97	111.46	0.00	5.88	4.68	0.62	0.03	0.01	0.17	0.83	0.05	0.02	0.07	0.00	0.00	11.50

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 18
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** WATER QUALITY VARIABLES **

RCH NUM	ELE NUM	TEMP DEG-F	CM-1 CHLO MG/L	CM-2 COND MG/L	CM-3	DO MG/L	BOD MG/L	ORGN MG/L	NH3N MG/L	NO2N MG/L	NO3N MG/L	SUM-N MG/L	ORGP MG/L	DIS-P MG/L	SUM-P MG/L	COLI #/100ML	ANC	CHLA UG/L
3	3	89.34	9.97	111.45	0.00	5.89	4.69	0.62	0.03	0.01	0.17	0.83	0.05	0.02	0.07	0.00	0.00	11.50
3	4	89.35	9.97	111.46	0.00	5.89	4.69	0.62	0.03	0.01	0.17	0.83	0.05	0.02	0.07	0.00	0.00	11.49
3	5	89.35	10.00	111.96	0.00	5.89	4.69	0.62	0.03	0.01	0.18	0.84	0.05	0.02	0.08	0.00	0.00	11.48
3	6	89.35	10.00	111.95	0.00	5.89	4.70	0.62	0.03	0.01	0.18	0.83	0.06	0.02	0.08	0.00	0.00	11.48
3	7	89.35	10.00	111.95	0.00	5.89	4.70	0.62	0.03	0.01	0.18	0.83	0.06	0.02	0.08	0.00	0.00	11.47
3	8	89.35	10.00	111.94	0.00	5.90	4.70	0.62	0.03	0.01	0.18	0.83	0.06	0.02	0.08	0.00	0.00	11.47
3	9	89.35	10.00	111.94	0.00	5.90	4.71	0.61	0.03	0.01	0.18	0.83	0.06	0.02	0.08	0.00	0.00	11.46
3	10	89.35	10.00	111.93	0.00	5.90	4.71	0.61	0.03	0.01	0.18	0.83	0.06	0.02	0.08	0.00	0.00	11.46
3	11	89.35	10.00	111.92	0.00	5.90	4.71	0.61	0.03	0.01	0.18	0.83	0.06	0.02	0.08	0.00	0.00	11.45
3	12	89.35	10.00	111.92	0.00	5.90	4.72	0.61	0.03	0.01	0.18	0.83	0.06	0.02	0.08	0.00	0.00	11.44
3	13	89.35	10.00	111.91	0.00	5.90	4.72	0.61	0.03	0.01	0.18	0.83	0.06	0.02	0.08	0.00	0.00	11.44
3	14	89.35	10.00	111.91	0.00	5.91	4.72	0.61	0.03	0.01	0.18	0.83	0.06	0.02	0.08	0.00	0.00	11.43
3	15	89.35	10.00	111.90	0.00	5.91	4.73	0.61	0.03	0.01	0.18	0.83	0.06	0.02	0.08	0.00	0.00	11.43
3	16	89.35	10.00	111.90	0.00	5.91	4.73	0.61	0.03	0.01	0.18	0.83	0.06	0.02	0.08	0.00	0.00	11.42
3	17	89.35	10.00	111.89	0.00	5.91	4.73	0.61	0.03	0.01	0.18	0.83	0.06	0.02	0.09	0.00	0.00	11.42
3	18	89.36	10.00	111.89	0.00	5.91	4.74	0.61	0.03	0.01	0.18	0.83	0.07	0.02	0.09	0.00	0.00	11.41
3	19	89.36	10.00	111.88	0.00	5.91	4.74	0.61	0.03	0.01	0.18	0.83	0.07	0.02	0.09	0.00	0.00	11.41
3	20	89.36	10.00	111.88	0.00	5.92	4.74	0.61	0.03	0.01	0.18	0.83	0.07	0.02	0.09	0.00	0.00	11.40
4	1	89.36	10.00	111.87	0.00	5.91	4.76	0.61	0.03	0.01	0.18	0.83	0.07	0.02	0.09	0.00	0.00	11.39

4	2	89.36	10.00	111.87	0.00	5.91	4.77	0.61	0.03	0.01	0.18	0.83	0.07	0.02	0.09	0.00	0.00	11.38
4	3	89.36	10.00	111.86	0.00	5.91	4.78	0.60	0.03	0.01	0.18	0.83	0.07	0.02	0.09	0.00	0.00	11.36
4	4	89.36	10.00	111.86	0.00	5.91	4.80	0.60	0.03	0.01	0.18	0.83	0.07	0.02	0.09	0.00	0.00	11.35
4	5	89.36	10.00	111.85	0.00	5.90	4.81	0.60	0.03	0.01	0.18	0.83	0.07	0.02	0.09	0.00	0.00	11.34
4	6	89.36	10.00	111.85	0.00	5.90	4.82	0.60	0.03	0.01	0.18	0.83	0.07	0.02	0.09	0.00	0.00	11.33
4	7	89.36	10.00	111.84	0.00	5.90	4.84	0.60	0.03	0.01	0.18	0.83	0.07	0.02	0.09	0.00	0.00	11.31
4	8	89.36	10.00	111.84	0.00	5.89	4.85	0.60	0.03	0.01	0.18	0.83	0.07	0.02	0.09	0.00	0.00	11.30
4	9	89.36	10.00	111.83	0.00	5.89	4.86	0.60	0.03	0.02	0.18	0.82	0.07	0.02	0.09	0.00	0.00	11.29
4	10	89.36	10.00	111.83	0.00	5.89	4.87	0.60	0.03	0.02	0.18	0.82	0.07	0.02	0.09	0.00	0.00	11.27
4	11	89.37	10.00	111.82	0.00	5.88	4.89	0.60	0.03	0.02	0.18	0.82	0.07	0.02	0.09	0.00	0.00	11.26
4	12	89.37	10.00	111.81	0.00	5.88	4.90	0.60	0.03	0.02	0.18	0.82	0.07	0.02	0.09	0.00	0.00	11.25
4	13	89.37	10.00	111.81	0.00	5.88	4.91	0.60	0.03	0.02	0.18	0.82	0.07	0.02	0.09	0.00	0.00	11.24
4	14	89.37	10.00	111.80	0.00	5.87	4.93	0.60	0.03	0.02	0.18	0.82	0.07	0.02	0.09	0.00	0.00	11.22
4	15	89.37	10.00	111.80	0.00	5.87	4.94	0.60	0.03	0.02	0.18	0.82	0.07	0.02	0.09	0.00	0.00	11.21
4	16	89.37	10.00	111.79	0.00	5.87	4.95	0.59	0.03	0.02	0.18	0.82	0.07	0.02	0.09	0.00	0.00	11.20
4	17	89.37	10.00	111.79	0.00	5.86	4.96	0.59	0.03	0.02	0.18	0.82	0.07	0.02	0.09	0.00	0.00	11.19
4	18	89.37	10.00	111.78	0.00	5.86	4.98	0.59	0.03	0.02	0.18	0.82	0.07	0.02	0.09	0.00	0.00	11.17
4	19	89.37	10.00	111.78	0.00	5.86	4.99	0.59	0.03	0.02	0.18	0.82	0.07	0.02	0.09	0.00	0.00	11.16
4	20	89.37	10.00	111.77	0.00	5.85	5.00	0.59	0.03	0.02	0.18	0.82	0.07	0.02	0.09	0.00	0.00	11.15
5	1	89.37	10.00	111.76	0.00	5.85	5.01	0.59	0.03	0.02	0.18	0.82	0.07	0.02	0.09	0.00	0.00	11.13
5	2	89.37	10.01	111.74	0.00	5.84	5.03	0.59	0.03	0.02	0.18	0.82	0.07	0.02	0.09	0.00	0.00	11.11
5	3	89.37	10.01	111.73	0.00	5.84	5.04	0.59	0.03	0.02	0.18	0.82	0.07	0.02	0.09	0.00	0.00	11.09
5	4	89.38	10.01	111.71	0.00	5.83	5.05	0.59	0.03	0.02	0.18	0.82	0.07	0.02	0.09	0.00	0.00	11.07

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 19
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** WATER QUALITY VARIABLES **

RCH NUM	ELE NUM	TEMP DEG-F	CM-1 CHLO MG/L	CM-2 COND MG/L	CM-3	DO MG/L	BOD MG/L	ORGN MG/L	NH3N MG/L	NO2N MG/L	NO3N MG/L	SUM-N MG/L	ORGP MG/L	DIS-P MG/L	SUM-P MG/L	COLI #/100ML	ANC	CHLA UG/L
5	5	89.38	10.01	111.70	0.00	5.83	5.06	0.59	0.03	0.02	0.18	0.82	0.06	0.02	0.09	0.00	0.00	11.05
5	6	89.38	10.01	111.68	0.00	5.82	5.08	0.59	0.03	0.02	0.18	0.82	0.06	0.02	0.09	0.00	0.00	11.04
5	7	89.38	10.01	111.67	0.00	5.81	5.09	0.59	0.03	0.02	0.18	0.82	0.06	0.02	0.09	0.00	0.00	11.02
5	8	89.38	10.01	111.66	0.00	5.81	5.10	0.58	0.03	0.02	0.18	0.82	0.06	0.02	0.09	0.00	0.00	11.00
5	9	89.38	10.01	111.64	0.00	5.80	5.11	0.58	0.03	0.02	0.18	0.82	0.06	0.02	0.09	0.00	0.00	10.98
5	10	89.38	10.01	111.63	0.00	5.80	5.12	0.58	0.03	0.02	0.18	0.82	0.06	0.02	0.09	0.00	0.00	10.96
5	11	89.38	10.01	111.61	0.00	5.79	5.14	0.58	0.03	0.02	0.18	0.82	0.06	0.02	0.09	0.00	0.00	10.94
5	12	89.38	10.01	111.60	0.00	5.79	5.15	0.58	0.03	0.02	0.18	0.82	0.06	0.02	0.09	0.00	0.00	10.92
5	13	89.38	10.01	111.58	0.00	5.78	5.16	0.58	0.03	0.02	0.18	0.81	0.06	0.02	0.09	0.00	0.00	10.90
5	14	89.38	10.01	111.57	0.00	5.77	5.17	0.58	0.03	0.02	0.19	0.81	0.06	0.02	0.09	0.00	0.00	10.89
5	15	89.38	10.01	111.55	0.00	5.77	5.18	0.58	0.03	0.02	0.19	0.81	0.06	0.02	0.09	0.00	0.00	10.87
5	16	89.38	10.01	111.54	0.00	5.76	5.19	0.58	0.03	0.02	0.19	0.81	0.06	0.02	0.09	0.00	0.00	10.85
5	17	89.38	10.01	111.52	0.00	5.76	5.21	0.58	0.03	0.02	0.19	0.81	0.06	0.02	0.09	0.00	0.00	10.83
5	18	89.39	10.01	111.51	0.00	5.75	5.22	0.58	0.03	0.02	0.19	0.81	0.06	0.02	0.09	0.00	0.00	10.81
5	19	89.39	10.01	111.49	0.00	5.75	5.23	0.57	0.03	0.02	0.19	0.81	0.06	0.02	0.09	0.00	0.00	10.79
5	20	89.39	10.02	111.48	0.00	5.74	5.24	0.57	0.03	0.02	0.19	0.81	0.06	0.02	0.09	0.00	0.00	10.78

6	1	89.39	10.02	111.47	0.00	5.73	5.25	0.57	0.03	0.02	0.19	0.81	0.06	0.02	0.09	0.00	0.00	10.76
6	2	89.39	10.02	111.45	0.00	5.73	5.26	0.57	0.03	0.02	0.19	0.81	0.06	0.02	0.09	0.00	0.00	10.74
6	3	89.39	10.02	111.44	0.00	5.72	5.26	0.57	0.03	0.02	0.19	0.81	0.06	0.02	0.09	0.00	0.00	10.72
6	4	89.39	10.02	111.42	0.00	5.72	5.27	0.57	0.03	0.02	0.19	0.81	0.06	0.02	0.09	0.00	0.00	10.70
6	5	89.39	10.02	111.41	0.00	5.71	5.28	0.57	0.03	0.02	0.19	0.81	0.06	0.02	0.09	0.00	0.00	10.68
6	6	89.39	10.02	111.39	0.00	5.70	5.29	0.57	0.03	0.02	0.19	0.81	0.06	0.02	0.09	0.00	0.00	10.66
6	7	89.39	10.02	111.38	0.00	5.70	5.29	0.57	0.03	0.02	0.19	0.81	0.06	0.02	0.09	0.00	0.00	10.65
6	8	89.39	10.02	111.36	0.00	5.69	5.30	0.57	0.03	0.02	0.19	0.81	0.06	0.02	0.09	0.00	0.00	10.63
6	9	89.39	10.02	111.35	0.00	5.69	5.31	0.57	0.03	0.02	0.19	0.81	0.06	0.02	0.09	0.00	0.00	10.61
6	10	89.39	10.02	111.34	0.00	5.68	5.31	0.57	0.03	0.02	0.19	0.82	0.06	0.02	0.09	0.00	0.00	10.59
6	11	89.39	10.02	111.32	0.00	5.68	5.32	0.57	0.03	0.02	0.19	0.82	0.06	0.02	0.09	0.00	0.00	10.57
6	12	89.39	10.02	111.31	0.00	5.67	5.33	0.57	0.03	0.02	0.19	0.82	0.06	0.02	0.09	0.00	0.00	10.56
6	13	89.40	10.02	111.29	0.00	5.66	5.34	0.57	0.03	0.02	0.19	0.82	0.06	0.02	0.09	0.00	0.00	10.54
6	14	89.40	10.02	111.28	0.00	5.66	5.34	0.57	0.03	0.02	0.19	0.82	0.06	0.02	0.09	0.00	0.00	10.52
6	15	89.40	10.02	111.27	0.00	5.65	5.35	0.57	0.03	0.02	0.19	0.82	0.06	0.02	0.09	0.00	0.00	10.50
6	16	89.40	10.03	111.33	0.00	5.65	5.36	0.57	0.03	0.02	0.19	0.82	0.06	0.02	0.09	0.00	0.00	10.49
6	17	89.40	10.03	111.32	0.00	5.64	5.37	0.57	0.03	0.02	0.19	0.82	0.06	0.02	0.09	0.00	0.00	10.48
6	18	89.40	10.03	111.30	0.00	5.64	5.38	0.57	0.03	0.02	0.19	0.82	0.06	0.02	0.09	0.00	0.00	10.46
6	19	89.40	10.03	111.29	0.00	5.63	5.38	0.57	0.03	0.02	0.19	0.82	0.06	0.02	0.09	0.00	0.00	10.44
6	20	89.40	10.04	111.28	0.00	5.62	5.39	0.57	0.03	0.02	0.19	0.82	0.06	0.02	0.09	0.00	0.00	10.42
7	1	89.40	10.04	111.28	0.00	5.62	5.39	0.57	0.03	0.02	0.19	0.82	0.06	0.02	0.09	0.00	0.00	10.41
7	2	89.40	10.04	111.28	0.00	5.61	5.39	0.57	0.03	0.02	0.20	0.82	0.06	0.02	0.09	0.00	0.00	10.39
7	3	89.40	10.04	111.29	0.00	5.60	5.39	0.57	0.03	0.02	0.20	0.82	0.06	0.02	0.09	0.00	0.00	10.37
7	4	89.41	10.05	111.30	0.00	5.59	5.39	0.57	0.03	0.02	0.20	0.82	0.06	0.02	0.09	0.00	0.00	10.34
7	5	89.75	10.18	111.56	0.00	5.57	5.40	0.57	0.03	0.02	0.20	0.82	0.06	0.02	0.08	0.00	0.00	9.97
7	6	89.75	10.19	111.57	0.00	5.56	5.40	0.57	0.03	0.02	0.20	0.82	0.06	0.02	0.08	0.00	0.00	9.95

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 20
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** WATER QUALITY VARIABLES **

RCH NUM	ELE NUM	TEMP DEG-F	CM-1 CHLO MG/L	CM-2 COND MG/L	CM-3	DO MG/L	BOD MG/L	ORGN MG/L	NH3N MG/L	NO2N MG/L	NO3N MG/L	SUM-N MG/L	ORGP MG/L	DIS-P MG/L	SUM-P MG/L	COLI #/100ML	ANC	CHLA UG/L
7	7	89.75	10.19	111.57	0.00	5.55	5.40	0.57	0.03	0.02	0.20	0.82	0.06	0.02	0.08	0.00	0.00	9.94
7	8	89.75	10.19	111.58	0.00	5.55	5.40	0.57	0.03	0.02	0.20	0.82	0.06	0.02	0.08	0.00	0.00	9.92
7	9	89.75	10.19	111.58	0.00	5.54	5.40	0.57	0.03	0.02	0.20	0.82	0.06	0.02	0.08	0.00	0.00	9.90
7	10	89.75	10.20	111.59	0.00	5.53	5.40	0.57	0.03	0.02	0.20	0.82	0.06	0.02	0.08	0.00	0.00	9.88
7	11	89.75	10.20	111.59	0.00	5.53	5.40	0.57	0.03	0.02	0.20	0.82	0.06	0.02	0.08	0.00	0.00	9.87
7	12	89.74	10.20	111.59	0.00	5.52	5.40	0.57	0.03	0.02	0.20	0.82	0.06	0.02	0.08	0.00	0.00	9.85
7	13	89.74	10.20	111.60	0.00	5.51	5.40	0.57	0.03	0.02	0.20	0.82	0.06	0.02	0.08	0.00	0.00	9.83
7	14	89.74	10.21	111.60	0.00	5.50	5.40	0.57	0.03	0.02	0.20	0.82	0.06	0.02	0.08	0.00	0.00	9.82
7	15	89.74	10.21	111.61	0.00	5.50	5.40	0.57	0.03	0.02	0.20	0.82	0.06	0.02	0.08	0.00	0.00	9.80
7	16	89.74	10.21	111.61	0.00	5.49	5.40	0.57	0.03	0.02	0.20	0.82	0.06	0.02	0.08	0.00	0.00	9.78
7	17	89.74	10.21	111.61	0.00	5.48	5.40	0.57	0.03	0.02	0.20	0.82	0.06	0.02	0.08	0.00	0.00	9.77
7	18	89.74	10.21	111.62	0.00	5.48	5.40	0.57	0.03	0.02	0.20	0.82	0.06	0.02	0.08	0.00	0.00	9.75
7	19	89.73	10.22	111.62	0.00	5.47	5.39	0.57	0.03	0.03	0.20	0.82	0.06	0.02	0.08	0.00	0.00	9.73

7	20	89.73	10.22	111.63	0.00	5.46	5.39	0.57	0.03	0.03	0.20	0.82	0.06	0.02	0.08	0.00	0.00	9.72
8	1	89.73	10.22	111.63	0.00	5.46	5.39	0.57	0.03	0.03	0.20	0.82	0.06	0.02	0.08	0.00	0.00	9.70
8	2	89.73	10.22	111.64	0.00	5.45	5.39	0.57	0.03	0.03	0.20	0.83	0.06	0.02	0.08	0.00	0.00	9.68
8	3	89.73	10.23	111.64	0.00	5.44	5.39	0.57	0.03	0.03	0.20	0.83	0.06	0.02	0.08	0.00	0.00	9.67
8	4	89.73	10.23	111.64	0.00	5.44	5.39	0.57	0.03	0.03	0.21	0.83	0.06	0.02	0.08	0.00	0.00	9.65
8	5	89.73	10.23	111.65	0.00	5.43	5.39	0.57	0.03	0.03	0.21	0.83	0.06	0.02	0.08	0.00	0.00	9.63
8	6	89.73	10.23	111.65	0.00	5.42	5.39	0.57	0.03	0.03	0.21	0.83	0.06	0.02	0.08	0.00	0.00	9.62
8	7	89.72	10.23	111.66	0.00	5.42	5.39	0.57	0.03	0.03	0.21	0.83	0.06	0.02	0.08	0.00	0.00	9.60
8	8	89.72	10.24	111.66	0.00	5.41	5.38	0.56	0.03	0.03	0.21	0.83	0.06	0.02	0.08	0.00	0.00	9.58
8	9	89.72	10.24	111.66	0.00	5.40	5.38	0.56	0.03	0.03	0.21	0.83	0.06	0.02	0.08	0.00	0.00	9.57
8	10	89.72	10.24	111.67	0.00	5.40	5.38	0.56	0.03	0.03	0.21	0.83	0.06	0.02	0.08	0.00	0.00	9.55
8	11	89.72	10.24	111.67	0.00	5.39	5.38	0.56	0.03	0.03	0.21	0.83	0.06	0.02	0.08	0.00	0.00	9.53
8	12	89.72	10.25	111.68	0.00	5.39	5.38	0.56	0.03	0.03	0.21	0.83	0.06	0.02	0.08	0.00	0.00	9.52
8	13	89.72	10.25	111.68	0.00	5.38	5.38	0.56	0.03	0.03	0.21	0.83	0.06	0.02	0.08	0.00	0.00	9.50
8	14	89.72	10.25	111.68	0.00	5.37	5.38	0.56	0.03	0.03	0.21	0.83	0.06	0.02	0.08	0.00	0.00	9.49
8	15	89.71	10.25	111.69	0.00	5.37	5.38	0.56	0.03	0.03	0.21	0.83	0.06	0.02	0.08	0.00	0.00	9.47
8	16	89.71	10.26	111.71	0.00	5.36	5.37	0.56	0.03	0.03	0.21	0.83	0.06	0.02	0.08	0.00	0.00	9.46
8	17	89.71	10.28	112.03	0.00	5.36	5.39	0.56	0.03	0.03	0.21	0.83	0.06	0.02	0.08	0.00	0.00	9.44
8	18	89.68	10.87	120.46	0.00	5.33	5.79	0.58	0.04	0.03	0.21	0.85	0.06	0.03	0.09	0.00	0.00	9.44
8	19	89.68	10.87	120.46	0.00	5.32	5.78	0.57	0.04	0.03	0.21	0.85	0.06	0.03	0.09	0.00	0.00	9.43
8	20	89.68	10.87	120.46	0.00	5.32	5.78	0.57	0.04	0.03	0.21	0.85	0.06	0.03	0.09	0.00	0.00	9.42
9	1	89.68	10.87	120.46	0.00	5.31	5.78	0.57	0.04	0.03	0.21	0.85	0.06	0.03	0.09	0.00	0.00	9.40
9	2	89.68	10.87	120.46	0.00	5.30	5.78	0.57	0.04	0.03	0.21	0.85	0.06	0.03	0.09	0.00	0.00	9.39
9	3	89.68	10.88	120.52	0.00	5.30	5.78	0.57	0.04	0.03	0.21	0.85	0.06	0.03	0.09	0.00	0.00	9.38
9	4	89.67	11.11	122.24	0.00	5.28	5.82	0.58	0.04	0.03	0.23	0.87	0.06	0.03	0.09	0.00	0.00	9.35
9	5	89.67	11.11	122.24	0.00	5.28	5.82	0.58	0.04	0.03	0.23	0.87	0.06	0.03	0.09	0.00	0.00	9.34
9	6	89.67	11.11	122.24	0.00	5.27	5.82	0.58	0.04	0.03	0.23	0.87	0.06	0.03	0.09	0.00	0.00	9.33
9	7	89.66	11.12	122.24	0.00	5.26	5.82	0.58	0.04	0.03	0.23	0.87	0.06	0.03	0.09	0.00	0.00	9.32
9	8	89.66	11.12	122.24	0.00	5.26	5.82	0.58	0.04	0.03	0.23	0.87	0.06	0.03	0.09	0.00	0.00	9.31

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 21
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** WATER QUALITY VARIABLES **

RCH NUM	ELE NUM	TEMP DEG-F	CM-1 CHLO MG/L	CM-2 COND MG/L	CM-3	DO MG/L	BOD MG/L	ORGN MG/L	NH3N MG/L	NO2N MG/L	NO3N MG/L	SUM-N MG/L	ORGP MG/L	DIS-P MG/L	SUM-P MG/L	COLI #/100ML	ANC	CHLA UG/L
9	9	89.66	11.12	122.23	0.00	5.25	5.81	0.58	0.04	0.03	0.23	0.87	0.06	0.03	0.09	0.00	0.00	9.30
9	10	89.66	11.12	122.23	0.00	5.25	5.81	0.58	0.04	0.03	0.23	0.87	0.06	0.03	0.09	0.00	0.00	9.29
9	11	89.66	11.12	122.23	0.00	5.24	5.81	0.58	0.04	0.03	0.23	0.87	0.06	0.03	0.09	0.00	0.00	9.28
9	12	89.66	11.12	122.23	0.00	5.23	5.81	0.58	0.04	0.03	0.23	0.87	0.06	0.03	0.09	0.00	0.00	9.27
9	13	89.66	11.13	122.22	0.00	5.23	5.81	0.58	0.04	0.03	0.23	0.87	0.06	0.03	0.09	0.00	0.00	9.26
9	14	89.66	11.13	122.22	0.00	5.22	5.81	0.57	0.04	0.03	0.23	0.87	0.06	0.03	0.09	0.00	0.00	9.25
9	15	89.66	11.13	122.22	0.00	5.22	5.81	0.57	0.04	0.03	0.24	0.87	0.06	0.03	0.09	0.00	0.00	9.24
9	16	89.66	11.13	122.22	0.00	5.21	5.80	0.57	0.04	0.03	0.24	0.87	0.06	0.03	0.09	0.00	0.00	9.23
9	17	89.66	11.13	122.22	0.00	5.21	5.80	0.57	0.04	0.03	0.24	0.87	0.06	0.03	0.09	0.00	0.00	9.22

9	18	89.66	11.13	122.21	0.00	5.20	5.80	0.57	0.03	0.03	0.24	0.88	0.06	0.03	0.09	0.00	0.00	9.21
9	19	89.65	11.14	122.21	0.00	5.20	5.80	0.57	0.03	0.03	0.24	0.88	0.06	0.03	0.09	0.00	0.00	9.20
9	20	89.65	11.14	122.21	0.00	5.19	5.80	0.57	0.03	0.03	0.24	0.88	0.06	0.03	0.09	0.00	0.00	9.19
10	1	89.65	11.14	122.22	0.00	5.19	5.80	0.57	0.03	0.03	0.24	0.88	0.06	0.03	0.09	0.00	0.00	9.18
10	2	89.65	11.14	122.23	0.00	5.18	5.80	0.57	0.03	0.03	0.24	0.88	0.06	0.03	0.09	0.00	0.00	9.18
10	3	89.65	11.15	122.23	0.00	5.18	5.80	0.57	0.03	0.03	0.24	0.88	0.06	0.03	0.09	0.00	0.00	9.17
10	4	89.65	11.15	122.24	0.00	5.17	5.80	0.57	0.03	0.03	0.24	0.88	0.06	0.03	0.09	0.00	0.00	9.16
10	5	89.65	11.15	122.25	0.00	5.17	5.79	0.57	0.03	0.03	0.24	0.88	0.07	0.03	0.09	0.00	0.00	9.16
10	6	89.65	11.16	122.26	0.00	5.16	5.79	0.57	0.03	0.03	0.24	0.88	0.07	0.03	0.09	0.00	0.00	9.15
10	7	89.65	11.16	122.26	0.00	5.16	5.79	0.57	0.03	0.03	0.24	0.88	0.07	0.03	0.10	0.00	0.00	9.14
10	8	89.62	11.14	122.01	0.00	5.15	5.81	0.57	0.03	0.03	0.24	0.88	0.07	0.03	0.10	0.00	0.00	9.15
10	9	89.62	11.14	122.02	0.00	5.15	5.81	0.57	0.03	0.03	0.24	0.88	0.07	0.03	0.10	0.00	0.00	9.14
10	10	89.62	11.14	122.03	0.00	5.14	5.81	0.57	0.03	0.03	0.24	0.88	0.07	0.03	0.10	0.00	0.00	9.13
10	11	89.62	11.15	122.04	0.00	5.14	5.81	0.57	0.03	0.03	0.24	0.88	0.07	0.03	0.10	0.00	0.00	9.13
10	12	89.62	11.15	122.05	0.00	5.13	5.81	0.57	0.03	0.03	0.24	0.88	0.07	0.03	0.10	0.00	0.00	9.12
10	13	89.62	11.15	122.06	0.00	5.13	5.81	0.57	0.03	0.03	0.24	0.88	0.07	0.03	0.10	0.00	0.00	9.11
10	14	89.62	11.16	122.07	0.00	5.13	5.81	0.57	0.03	0.03	0.24	0.88	0.07	0.03	0.10	0.00	0.00	9.11
10	15	89.62	11.16	122.07	0.00	5.12	5.81	0.57	0.03	0.03	0.24	0.88	0.07	0.03	0.10	0.00	0.00	9.10
10	16	89.62	11.16	122.08	0.00	5.12	5.81	0.57	0.03	0.03	0.24	0.88	0.07	0.03	0.10	0.00	0.00	9.10
10	17	89.62	11.17	122.09	0.00	5.11	5.81	0.57	0.03	0.03	0.24	0.88	0.07	0.03	0.10	0.00	0.00	9.09
10	18	89.62	11.17	122.10	0.00	5.11	5.81	0.57	0.03	0.03	0.24	0.88	0.07	0.03	0.10	0.00	0.00	9.08
10	19	89.62	11.17	122.11	0.00	5.11	5.81	0.57	0.03	0.03	0.25	0.88	0.07	0.03	0.10	0.00	0.00	9.08
10	20	89.62	11.17	122.12	0.00	5.10	5.81	0.57	0.03	0.03	0.25	0.88	0.07	0.03	0.10	0.00	0.00	9.07
11	1	89.61	11.18	122.12	0.00	5.10	5.81	0.57	0.03	0.03	0.25	0.88	0.07	0.03	0.10	0.00	0.00	9.06
11	2	89.61	11.18	122.12	0.00	5.09	5.81	0.57	0.03	0.03	0.25	0.88	0.07	0.03	0.10	0.00	0.00	9.06
11	3	89.61	11.18	122.13	0.00	5.09	5.81	0.57	0.03	0.03	0.25	0.88	0.07	0.03	0.10	0.00	0.00	9.05
11	4	89.61	11.18	122.13	0.00	5.09	5.81	0.57	0.03	0.03	0.25	0.88	0.07	0.03	0.10	0.00	0.00	9.05
11	5	89.61	11.18	122.14	0.00	5.08	5.81	0.57	0.03	0.03	0.25	0.88	0.07	0.03	0.10	0.00	0.00	9.04
11	6	89.61	11.18	122.14	0.00	5.08	5.81	0.57	0.03	0.03	0.25	0.88	0.07	0.03	0.10	0.00	0.00	9.04
11	7	89.61	11.18	122.14	0.00	5.08	5.81	0.57	0.03	0.03	0.25	0.88	0.07	0.03	0.10	0.00	0.00	9.03
11	8	89.61	11.19	122.15	0.00	5.07	5.81	0.57	0.03	0.03	0.25	0.88	0.07	0.03	0.10	0.00	0.00	9.02
11	9	89.61	11.19	122.15	0.00	5.07	5.81	0.57	0.03	0.03	0.25	0.88	0.07	0.03	0.10	0.00	0.00	9.02
11	10	89.61	11.19	122.15	0.00	5.07	5.81	0.57	0.03	0.03	0.25	0.88	0.07	0.03	0.10	0.00	0.00	9.01

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 22
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** WATER QUALITY VARIABLES **

RCH NUM	ELE NUM	TEMP DEG-F	CM-1 CHLO MG/L	CM-2 COND MG/L	CM-3	DO MG/L	BOD MG/L	ORGN MG/L	NH3N MG/L	NO2N MG/L	NO3N MG/L	SUM-N MG/L	ORGP MG/L	DIS-P MG/L	SUM-P MG/L	COLI #/100ML	ANC	CHLA UG/L
11	11	89.61	11.19	122.16	0.00	5.06	5.81	0.57	0.03	0.03	0.25	0.88	0.07	0.03	0.10	0.00	0.00	9.01
11	12	89.61	11.19	122.16	0.00	5.06	5.81	0.57	0.03	0.03	0.25	0.88	0.07	0.03	0.10	0.00	0.00	9.00
11	13	89.61	11.19	122.17	0.00	5.06	5.81	0.57	0.03	0.03	0.25	0.88	0.07	0.03	0.10	0.00	0.00	9.00
11	14	89.61	11.19	122.17	0.00	5.06	5.81	0.57	0.03	0.03	0.25	0.88	0.07	0.03	0.10	0.00	0.00	8.99
11	15	89.61	11.20	122.17	0.00	5.05	5.81	0.57	0.03	0.03	0.25	0.88	0.07	0.03	0.10	0.00	0.00	8.99

11	16	89.61	11.20	122.18	0.00	5.05	5.81	0.57	0.03	0.03	0.25	0.88	0.07	0.03	0.10	0.00	0.00	8.98
11	17	89.61	11.20	122.18	0.00	5.05	5.81	0.57	0.03	0.03	0.25	0.88	0.07	0.03	0.10	0.00	0.00	8.98
11	18	89.61	11.20	122.19	0.00	5.04	5.81	0.57	0.03	0.03	0.25	0.88	0.07	0.03	0.10	0.00	0.00	8.97
11	19	89.61	11.20	122.19	0.00	5.04	5.81	0.57	0.03	0.03	0.25	0.88	0.07	0.03	0.10	0.00	0.00	8.97
11	20	89.61	11.20	122.19	0.00	5.04	5.81	0.57	0.03	0.03	0.25	0.88	0.07	0.03	0.10	0.00	0.00	8.96
12	1	89.61	11.20	122.20	0.00	5.03	5.80	0.56	0.03	0.03	0.25	0.88	0.07	0.03	0.10	0.00	0.00	8.95
12	2	89.61	11.21	122.20	0.00	5.02	5.80	0.56	0.03	0.03	0.26	0.88	0.07	0.03	0.10	0.00	0.00	8.94
12	3	89.61	11.21	122.20	0.00	5.02	5.80	0.56	0.03	0.03	0.26	0.88	0.07	0.03	0.10	0.00	0.00	8.93
12	4	89.61	11.21	122.21	0.00	5.01	5.79	0.56	0.03	0.03	0.26	0.88	0.07	0.03	0.10	0.00	0.00	8.91
12	5	89.61	11.21	122.21	0.00	5.00	5.79	0.56	0.03	0.03	0.26	0.88	0.06	0.03	0.10	0.00	0.00	8.90
12	6	89.61	11.21	122.22	0.00	5.00	5.79	0.56	0.03	0.03	0.26	0.88	0.06	0.03	0.10	0.00	0.00	8.89
12	7	89.61	11.21	122.22	0.00	4.99	5.79	0.56	0.03	0.03	0.26	0.88	0.06	0.03	0.10	0.00	0.00	8.88
12	8	89.60	11.21	122.22	0.00	4.99	5.78	0.56	0.03	0.03	0.26	0.88	0.06	0.03	0.10	0.00	0.00	8.87
12	9	89.60	11.22	122.23	0.00	4.98	5.78	0.56	0.03	0.03	0.26	0.88	0.06	0.03	0.10	0.00	0.00	8.86
12	10	89.60	11.22	122.23	0.00	4.97	5.78	0.56	0.03	0.03	0.26	0.88	0.06	0.03	0.10	0.00	0.00	8.84
12	11	89.60	11.22	122.24	0.00	4.97	5.78	0.56	0.03	0.03	0.26	0.88	0.06	0.03	0.10	0.00	0.00	8.83
12	12	89.60	11.22	122.24	0.00	4.96	5.77	0.56	0.03	0.03	0.26	0.88	0.06	0.03	0.10	0.00	0.00	8.82
12	13	89.60	11.22	122.24	0.00	4.95	5.77	0.56	0.03	0.03	0.26	0.88	0.06	0.03	0.10	0.00	0.00	8.81
12	14	89.60	11.22	122.25	0.00	4.95	5.77	0.56	0.03	0.03	0.26	0.88	0.06	0.03	0.10	0.00	0.00	8.80
12	15	89.60	11.22	122.25	0.00	4.94	5.76	0.56	0.03	0.03	0.26	0.88	0.06	0.03	0.10	0.00	0.00	8.79
12	16	89.60	11.23	122.25	0.00	4.93	5.76	0.56	0.03	0.03	0.26	0.88	0.06	0.03	0.10	0.00	0.00	8.78
12	17	89.60	11.23	122.26	0.00	4.93	5.76	0.56	0.03	0.03	0.26	0.88	0.06	0.03	0.10	0.00	0.00	8.76
12	18	89.60	11.23	122.26	0.00	4.92	5.76	0.56	0.03	0.03	0.26	0.88	0.06	0.03	0.10	0.00	0.00	8.75
12	19	89.60	11.23	122.27	0.00	4.92	5.75	0.56	0.03	0.03	0.26	0.88	0.06	0.03	0.10	0.00	0.00	8.74
12	20	89.60	11.23	122.27	0.00	4.91	5.75	0.56	0.03	0.03	0.26	0.88	0.06	0.03	0.10	0.00	0.00	8.73
13	1	89.60	11.23	122.28	0.00	4.90	5.75	0.56	0.03	0.03	0.27	0.88	0.06	0.03	0.10	0.00	0.00	8.72
13	2	89.60	11.24	122.29	0.00	4.89	5.74	0.56	0.03	0.03	0.27	0.88	0.06	0.03	0.10	0.00	0.00	8.71
13	3	89.60	11.24	122.30	0.00	4.89	5.73	0.56	0.03	0.03	0.27	0.89	0.06	0.03	0.10	0.00	0.00	8.69
13	4	89.60	11.25	122.30	0.00	4.88	5.73	0.56	0.03	0.03	0.27	0.89	0.06	0.03	0.10	0.00	0.00	8.68
13	5	89.60	11.25	122.31	0.00	4.87	5.72	0.56	0.03	0.03	0.27	0.89	0.06	0.03	0.10	0.00	0.00	8.67
13	6	89.60	11.25	122.32	0.00	4.86	5.72	0.55	0.03	0.03	0.27	0.89	0.06	0.03	0.10	0.00	0.00	8.65
13	7	89.60	11.26	122.33	0.00	4.85	5.71	0.55	0.03	0.03	0.27	0.89	0.06	0.03	0.10	0.00	0.00	8.64
13	8	89.60	11.26	122.34	0.00	4.84	5.71	0.55	0.03	0.03	0.27	0.89	0.06	0.03	0.10	0.00	0.00	8.63
13	9	89.60	11.26	122.35	0.00	4.83	5.70	0.55	0.03	0.03	0.27	0.89	0.06	0.03	0.10	0.00	0.00	8.62
13	10	89.60	11.27	122.36	0.00	4.83	5.70	0.55	0.03	0.03	0.27	0.89	0.06	0.03	0.10	0.00	0.00	8.60
13	11	89.60	11.27	122.37	0.00	4.82	5.69	0.55	0.03	0.03	0.27	0.89	0.06	0.03	0.10	0.00	0.00	8.59
13	12	89.60	11.27	122.37	0.00	4.81	5.69	0.55	0.03	0.03	0.27	0.89	0.06	0.03	0.10	0.00	0.00	8.58

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 23
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** WATER QUALITY VARIABLES **

RCH NUM	ELE NUM	TEMP DEG-F	CM-1 CHLO MG/L	CM-2 COND MG/L	CM-3	DO MG/L	BOD MG/L	ORGN MG/L	NH3N MG/L	NO2N MG/L	NO3N MG/L	SUM-N MG/L	ORGP MG/L	DIS-P MG/L	SUM-P MG/L	COLI #/100ML	ANC	CHLA UG/L
13	13	89.60	11.28	122.38	0.00	4.80	5.68	0.55	0.03	0.03	0.27	0.89	0.06	0.03	0.10	0.00	0.00	8.57

13	14	89.60	11.28	122.39	0.00	4.79	5.67	0.55	0.03	0.03	0.27	0.89	0.06	0.03	0.10	0.00	0.00	8.55
13	15	89.60	11.28	122.40	0.00	4.78	5.67	0.55	0.03	0.03	0.27	0.89	0.06	0.03	0.10	0.00	0.00	8.54
13	16	89.60	11.29	122.41	0.00	4.78	5.66	0.55	0.03	0.03	0.27	0.89	0.06	0.03	0.10	0.00	0.00	8.53
13	17	89.60	11.29	122.42	0.00	4.77	5.66	0.55	0.03	0.03	0.27	0.89	0.06	0.03	0.10	0.00	0.00	8.52
13	18	89.60	11.30	122.43	0.00	4.76	5.65	0.55	0.03	0.03	0.28	0.89	0.06	0.03	0.10	0.00	0.00	8.51
13	19	89.60	11.30	122.44	0.00	4.75	5.65	0.55	0.03	0.03	0.28	0.89	0.06	0.03	0.10	0.00	0.00	8.49
13	20	89.60	11.30	122.44	0.00	4.74	5.64	0.55	0.03	0.03	0.28	0.89	0.06	0.03	0.10	0.00	0.00	8.48
14	1	89.60	11.31	122.45	0.00	4.74	5.64	0.55	0.03	0.03	0.28	0.89	0.06	0.03	0.10	0.00	0.00	8.47
14	2	89.60	11.31	122.46	0.00	4.73	5.63	0.55	0.03	0.03	0.28	0.89	0.06	0.03	0.10	0.00	0.00	8.46
14	3	89.60	11.31	122.47	0.00	4.72	5.62	0.55	0.03	0.03	0.28	0.89	0.06	0.03	0.10	0.00	0.00	8.45
14	4	89.60	11.32	122.48	0.00	4.72	5.61	0.55	0.03	0.03	0.28	0.89	0.06	0.03	0.10	0.00	0.00	8.44
14	5	89.60	11.32	122.49	0.00	4.71	5.61	0.55	0.03	0.03	0.28	0.89	0.06	0.03	0.09	0.00	0.00	8.43
14	6	89.60	11.32	122.50	0.00	4.70	5.60	0.55	0.03	0.03	0.28	0.89	0.06	0.03	0.09	0.00	0.00	8.42
14	7	89.60	11.33	122.50	0.00	4.70	5.59	0.54	0.03	0.03	0.28	0.89	0.06	0.03	0.09	0.00	0.00	8.41
14	8	89.60	11.33	122.51	0.00	4.69	5.59	0.54	0.03	0.03	0.28	0.89	0.06	0.03	0.09	0.00	0.00	8.40
14	9	89.60	11.33	122.52	0.00	4.69	5.58	0.54	0.03	0.03	0.28	0.89	0.06	0.03	0.09	0.00	0.00	8.39
14	10	89.59	11.34	122.53	0.00	4.68	5.57	0.54	0.03	0.03	0.28	0.89	0.06	0.03	0.09	0.00	0.00	8.38
14	11	89.59	11.34	122.54	0.00	4.67	5.57	0.54	0.03	0.03	0.28	0.89	0.06	0.03	0.09	0.00	0.00	8.37
14	12	89.59	11.34	122.55	0.00	4.67	5.56	0.54	0.03	0.03	0.28	0.89	0.06	0.03	0.09	0.00	0.00	8.36
14	13	89.59	11.35	122.56	0.00	4.66	5.55	0.54	0.03	0.03	0.28	0.89	0.06	0.03	0.09	0.00	0.00	8.35
14	14	89.59	11.35	122.57	0.00	4.65	5.55	0.54	0.03	0.03	0.29	0.89	0.06	0.03	0.09	0.00	0.00	8.34
14	15	89.59	11.36	122.57	0.00	4.65	5.54	0.54	0.03	0.03	0.29	0.89	0.06	0.03	0.09	0.00	0.00	8.33
14	16	89.59	11.36	122.58	0.00	4.64	5.53	0.54	0.03	0.03	0.29	0.89	0.06	0.03	0.09	0.00	0.00	8.32
14	17	89.59	11.36	122.59	0.00	4.64	5.53	0.54	0.03	0.03	0.29	0.89	0.06	0.03	0.09	0.00	0.00	8.32
14	18	89.59	11.37	122.60	0.00	4.63	5.52	0.54	0.03	0.03	0.29	0.89	0.06	0.03	0.09	0.00	0.00	8.31
14	19	89.59	11.37	122.61	0.00	4.63	5.51	0.54	0.03	0.03	0.29	0.89	0.06	0.03	0.09	0.00	0.00	8.30
14	20	89.59	11.37	122.62	0.00	4.62	5.51	0.54	0.03	0.03	0.29	0.89	0.06	0.03	0.09	0.00	0.00	8.29
15	1	89.59	11.38	122.63	0.00	4.61	5.50	0.54	0.03	0.03	0.29	0.89	0.06	0.03	0.09	0.00	0.00	8.28
15	2	89.59	11.38	122.63	0.00	4.61	5.49	0.54	0.03	0.03	0.29	0.89	0.06	0.03	0.09	0.00	0.00	8.27
15	3	89.59	11.38	122.64	0.00	4.61	5.48	0.54	0.03	0.03	0.29	0.89	0.06	0.03	0.09	0.00	0.00	8.27
15	4	89.59	11.39	122.65	0.00	4.60	5.48	0.54	0.03	0.03	0.29	0.89	0.06	0.03	0.09	0.00	0.00	8.26
15	5	89.59	11.39	122.66	0.00	4.60	5.47	0.54	0.03	0.03	0.29	0.89	0.06	0.03	0.09	0.00	0.00	8.25
15	6	89.59	11.39	122.67	0.00	4.59	5.46	0.54	0.03	0.03	0.29	0.89	0.06	0.03	0.09	0.00	0.00	8.25
15	7	89.59	11.40	122.68	0.00	4.59	5.45	0.54	0.03	0.03	0.29	0.89	0.06	0.03	0.09	0.00	0.00	8.24
15	8	89.59	11.40	122.69	0.00	4.59	5.44	0.54	0.03	0.03	0.29	0.89	0.06	0.03	0.09	0.00	0.00	8.24
15	9	89.59	11.40	122.69	0.00	4.58	5.44	0.53	0.03	0.03	0.29	0.89	0.06	0.03	0.09	0.00	0.00	8.23
15	10	89.59	11.41	122.70	0.00	4.58	5.43	0.53	0.03	0.03	0.29	0.89	0.06	0.03	0.09	0.00	0.00	8.22
15	11	89.59	11.41	122.71	0.00	4.58	5.42	0.53	0.03	0.03	0.30	0.89	0.06	0.03	0.09	0.00	0.00	8.22
15	12	89.59	11.41	122.72	0.00	4.57	5.41	0.53	0.03	0.03	0.30	0.89	0.06	0.03	0.09	0.00	0.00	8.21
15	13	89.59	11.42	122.73	0.00	4.57	5.41	0.53	0.03	0.03	0.30	0.89	0.06	0.03	0.09	0.00	0.00	8.20
15	14	89.59	11.42	122.74	0.00	4.57	5.40	0.53	0.03	0.03	0.30	0.89	0.06	0.03	0.09	0.00	0.00	8.20

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 24
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** WATER QUALITY VARIABLES **

RCH ELE CM-1 CM-2 CM-3 ANC

NUM	NUM	TEMP DEG-F	CHLO MG/L	COND MG/L		DO MG/L	BOD MG/L	ORGN MG/L	NH3N MG/L	NO2N MG/L	NO3N MG/L	SUM-N MG/L	ORGP MG/L	DIS-P MG/L	SUM-P MG/L	COLI #/100ML		CHLA UG/L
15	15	89.59	11.43	122.75	0.00	4.56	5.39	0.53	0.03	0.03	0.30	0.89	0.06	0.03	0.09	0.00	0.00	8.19
15	16	89.59	11.43	122.75	0.00	4.56	5.38	0.53	0.03	0.03	0.30	0.89	0.06	0.03	0.09	0.00	0.00	8.19
15	17	89.59	11.43	122.76	0.00	4.56	5.38	0.53	0.03	0.03	0.30	0.89	0.06	0.03	0.09	0.00	0.00	8.18
15	18	89.59	11.44	122.77	0.00	4.55	5.37	0.53	0.03	0.03	0.30	0.89	0.06	0.03	0.09	0.00	0.00	8.17
15	19	89.59	11.44	122.78	0.00	4.55	5.36	0.53	0.03	0.03	0.30	0.89	0.06	0.03	0.09	0.00	0.00	8.17
15	20	89.59	11.44	122.79	0.00	4.55	5.35	0.53	0.03	0.03	0.30	0.89	0.06	0.03	0.09	0.00	0.00	8.16
16	1	89.59	11.44	122.79	0.00	4.54	5.34	0.53	0.03	0.03	0.30	0.89	0.06	0.03	0.09	0.00	0.00	8.16
16	2	89.59	11.45	122.79	0.00	4.54	5.34	0.53	0.03	0.03	0.30	0.89	0.06	0.03	0.09	0.00	0.00	8.16
16	3	89.59	11.45	122.80	0.00	4.54	5.33	0.53	0.03	0.03	0.30	0.89	0.06	0.03	0.09	0.00	0.00	8.16
16	4	89.59	11.45	122.80	0.00	4.54	5.32	0.53	0.03	0.03	0.30	0.89	0.06	0.03	0.09	0.00	0.00	8.16
16	5	89.59	11.45	122.80	0.00	4.54	5.31	0.53	0.03	0.03	0.30	0.89	0.06	0.03	0.09	0.00	0.00	8.16
16	6	89.59	11.45	122.81	0.00	4.54	5.30	0.53	0.03	0.03	0.30	0.89	0.06	0.03	0.09	0.00	0.00	8.15
16	7	89.59	11.45	122.81	0.00	4.53	5.29	0.53	0.03	0.03	0.30	0.89	0.06	0.03	0.09	0.00	0.00	8.15
16	8	89.59	11.45	122.81	0.00	4.53	5.29	0.53	0.03	0.03	0.31	0.89	0.06	0.03	0.09	0.00	0.00	8.15
16	9	89.59	11.46	122.82	0.00	4.53	5.28	0.53	0.03	0.03	0.31	0.89	0.06	0.03	0.09	0.00	0.00	8.15
16	10	89.59	11.46	122.82	0.00	4.53	5.27	0.53	0.03	0.03	0.31	0.89	0.06	0.03	0.09	0.00	0.00	8.15
16	11	89.58	11.46	122.82	0.00	4.53	5.26	0.52	0.03	0.03	0.31	0.89	0.06	0.03	0.09	0.00	0.00	8.15
16	12	89.58	11.46	122.83	0.00	4.53	5.25	0.52	0.03	0.03	0.31	0.89	0.06	0.03	0.09	0.00	0.00	8.15
16	13	89.58	11.46	122.83	0.00	4.53	5.24	0.52	0.03	0.03	0.31	0.89	0.06	0.03	0.09	0.00	0.00	8.15
16	14	89.58	11.46	122.83	0.00	4.53	5.24	0.52	0.03	0.03	0.31	0.89	0.06	0.03	0.09	0.00	0.00	8.15
16	15	89.58	11.46	122.83	0.00	4.53	5.23	0.52	0.03	0.03	0.31	0.89	0.06	0.03	0.09	0.00	0.00	8.15
16	16	89.58	11.47	122.84	0.00	4.52	5.22	0.52	0.03	0.03	0.31	0.89	0.06	0.03	0.09	0.00	0.00	8.15
16	17	89.58	11.47	122.84	0.00	4.52	5.21	0.52	0.03	0.03	0.31	0.89	0.06	0.03	0.09	0.00	0.00	8.14
16	18	89.58	11.47	122.84	0.00	4.52	5.20	0.52	0.03	0.03	0.31	0.89	0.06	0.03	0.09	0.00	0.00	8.14
16	19	89.58	11.47	122.85	0.00	4.52	5.20	0.52	0.03	0.03	0.31	0.89	0.06	0.03	0.09	0.00	0.00	8.14
16	20	89.58	11.47	122.85	0.00	4.52	5.19	0.52	0.03	0.03	0.31	0.89	0.06	0.03	0.09	0.00	0.00	8.14
17	1	89.58	11.47	122.86	0.00	4.52	5.18	0.52	0.03	0.03	0.31	0.89	0.06	0.04	0.09	0.00	0.00	8.15
17	2	89.58	11.48	122.86	0.00	4.52	5.18	0.52	0.03	0.03	0.31	0.89	0.06	0.04	0.09	0.00	0.00	8.15
17	3	89.58	11.48	122.87	0.00	4.52	5.18	0.52	0.03	0.03	0.31	0.89	0.06	0.04	0.09	0.00	0.00	8.15
17	4	89.58	11.48	122.87	0.00	4.52	5.17	0.52	0.03	0.03	0.32	0.89	0.06	0.04	0.09	0.00	0.00	8.15
17	5	89.58	11.48	122.88	0.00	4.52	5.17	0.52	0.03	0.03	0.32	0.89	0.06	0.04	0.09	0.00	0.00	8.16
17	6	89.58	11.48	122.88	0.00	4.53	5.16	0.52	0.03	0.03	0.32	0.89	0.06	0.04	0.09	0.00	0.00	8.16
17	7	89.58	11.49	122.89	0.00	4.53	5.16	0.52	0.03	0.03	0.32	0.89	0.06	0.04	0.09	0.00	0.00	8.16
17	8	89.58	11.49	122.89	0.00	4.53	5.16	0.52	0.03	0.03	0.32	0.90	0.06	0.04	0.09	0.00	0.00	8.17
17	9	89.58	11.49	122.90	0.00	4.53	5.15	0.52	0.03	0.03	0.32	0.90	0.06	0.04	0.09	0.00	0.00	8.17
17	10	89.58	11.49	122.90	0.00	4.53	5.15	0.52	0.03	0.03	0.32	0.90	0.06	0.04	0.09	0.00	0.00	8.17
17	11	89.58	11.50	122.91	0.00	4.53	5.14	0.52	0.03	0.03	0.32	0.90	0.06	0.04	0.09	0.00	0.00	8.18
17	12	89.58	11.50	122.91	0.00	4.53	5.14	0.52	0.03	0.03	0.32	0.90	0.06	0.04	0.09	0.00	0.00	8.18

***** STEADY STATE SIMULATION *****

** ALGAE DATA **

ELE ORD	RCH NUM	ELE NUM	CHLA UG/L	ALGY GRWTH 1/DAY	ALGY RESP 1/DAY	ALGY SETT FT/DA	A P/R RATIO *	NET P-R MG/L-D	NH3 PREF *	NH3-N FRACT N-UPTKE *	LIGHT EXTCO 1/FT	ALGAE GROWTH RATE ATTEN FACTORS LIGHT *	NITRGN *	PHSPRS *
1	1	1	12.39	0.07	0.08	0.07	0.67	-0.02	0.50	0.15	0.84	0.12	0.50	0.33
2	1	2	12.39	0.07	0.08	0.07	0.67	-0.02	0.50	0.15	0.84	0.12	0.50	0.33
3	1	3	12.38	0.07	0.08	0.07	0.67	-0.02	0.50	0.15	0.84	0.12	0.50	0.33
4	1	4	12.38	0.07	0.08	0.07	0.67	-0.02	0.50	0.15	0.84	0.12	0.50	0.33
5	1	5	12.37	0.07	0.08	0.07	0.67	-0.02	0.50	0.15	0.84	0.12	0.50	0.33
6	1	6	12.37	0.07	0.08	0.07	0.67	-0.02	0.50	0.15	0.84	0.12	0.50	0.33
7	1	7	12.36	0.07	0.08	0.07	0.67	-0.02	0.50	0.15	0.84	0.12	0.50	0.33
8	1	8	12.36	0.07	0.08	0.07	0.67	-0.02	0.50	0.15	0.84	0.12	0.50	0.33
9	1	9	12.35	0.07	0.08	0.07	0.67	-0.02	0.50	0.15	0.84	0.12	0.50	0.33
10	1	10	12.35	0.07	0.08	0.07	0.67	-0.02	0.50	0.15	0.84	0.12	0.50	0.33
11	1	11	12.34	0.07	0.08	0.07	0.67	-0.02	0.50	0.15	0.84	0.12	0.50	0.33
12	1	12	12.34	0.07	0.08	0.07	0.67	-0.02	0.50	0.15	0.84	0.12	0.50	0.33
13	1	13	12.33	0.07	0.08	0.07	0.67	-0.02	0.50	0.15	0.84	0.12	0.50	0.33
14	1	14	12.33	0.07	0.08	0.07	0.67	-0.02	0.50	0.15	0.84	0.12	0.50	0.33
15	1	15	12.32	0.07	0.08	0.07	0.67	-0.02	0.50	0.15	0.84	0.12	0.50	0.34
16	1	16	12.32	0.07	0.08	0.07	0.67	-0.02	0.50	0.15	0.84	0.12	0.50	0.34
17	1	17	12.31	0.07	0.08	0.07	0.67	-0.02	0.50	0.15	0.84	0.12	0.50	0.34
18	1	18	12.31	0.07	0.08	0.07	0.67	-0.02	0.50	0.15	0.84	0.12	0.50	0.34
19	1	19	12.30	0.07	0.08	0.07	0.67	-0.02	0.50	0.15	0.84	0.12	0.50	0.34
20	1	20	12.30	0.07	0.08	0.07	0.67	-0.02	0.50	0.15	0.84	0.12	0.50	0.34
21	2	1	12.29	0.08	0.08	0.07	0.73	-0.01	0.50	0.15	0.84	0.13	0.50	0.34
22	2	2	12.29	0.08	0.08	0.07	0.73	-0.01	0.50	0.15	0.84	0.13	0.50	0.34
23	2	3	12.29	0.08	0.08	0.07	0.73	-0.01	0.50	0.15	0.84	0.13	0.50	0.34
24	2	4	12.28	0.08	0.08	0.07	0.73	-0.01	0.50	0.15	0.84	0.13	0.50	0.34
25	2	5	12.28	0.08	0.08	0.07	0.73	-0.01	0.50	0.15	0.84	0.13	0.50	0.34
26	2	6	12.28	0.08	0.08	0.07	0.73	-0.01	0.50	0.15	0.84	0.13	0.50	0.34
27	2	7	12.28	0.08	0.08	0.07	0.73	-0.01	0.50	0.15	0.84	0.13	0.50	0.34
28	2	8	12.33	0.08	0.08	0.07	0.73	-0.01	0.50	0.15	0.84	0.13	0.50	0.34
29	2	9	12.32	0.08	0.08	0.07	0.73	-0.01	0.50	0.15	0.84	0.13	0.50	0.34
30	2	10	12.32	0.08	0.08	0.07	0.73	-0.01	0.50	0.15	0.84	0.13	0.50	0.34
31	2	11	12.30	0.08	0.08	0.07	0.73	-0.01	0.50	0.15	0.84	0.13	0.50	0.34
32	2	12	11.54	0.08	0.09	0.07	0.73	-0.01	0.50	0.15	0.84	0.13	0.50	0.34
33	2	13	11.53	0.08	0.09	0.07	0.73	-0.01	0.50	0.15	0.84	0.13	0.50	0.34
34	2	14	11.53	0.08	0.09	0.07	0.73	-0.01	0.50	0.15	0.84	0.13	0.50	0.34
35	2	15	11.53	0.08	0.09	0.07	0.74	-0.01	0.50	0.15	0.84	0.13	0.50	0.34
36	2	16	11.53	0.08	0.09	0.07	0.74	-0.01	0.50	0.15	0.84	0.13	0.50	0.34
37	2	17	11.52	0.08	0.09	0.07	0.74	-0.01	0.50	0.15	0.84	0.13	0.50	0.34
38	2	18	11.52	0.08	0.09	0.07	0.74	-0.01	0.50	0.15	0.84	0.13	0.50	0.34
39	2	19	11.52	0.08	0.09	0.07	0.74	-0.01	0.50	0.15	0.84	0.13	0.50	0.34
40	2	20	11.51	0.08	0.09	0.07	0.74	-0.01	0.50	0.15	0.84	0.13	0.50	0.34
41	3	1	11.51	0.07	0.09	0.07	0.66	-0.02	0.50	0.15	1.02	0.12	0.50	0.34
42	3	2	11.50	0.07	0.09	0.07	0.66	-0.02	0.50	0.15	1.02	0.12	0.50	0.34

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 26
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** ALGAE DATA **

ELE ORD	RCH NUM	ELE NUM	CHLA UG/L	ALGY GRWTH 1/DAY	ALGY RESP 1/DAY	ALGY SETT FT/DA	A P/R RATIO *	NET P-R MG/L-D	NH3 PREF *	NH3-N FRACT N-UPTKE *	LIGHT EXTCO 1/FT	ALGAE GROWTH RATE ATTEN FACTORS LIGHT *	NITRGN *	PHSPRS *
43	3	3	11.50	0.07	0.09	0.07	0.66	-0.02	0.50	0.15	1.02	0.12	0.50	0.34
44	3	4	11.49	0.07	0.09	0.07	0.66	-0.02	0.50	0.15	1.02	0.12	0.50	0.34
45	3	5	11.48	0.07	0.09	0.07	0.67	-0.01	0.50	0.15	1.02	0.12	0.51	0.34
46	3	6	11.48	0.07	0.09	0.07	0.67	-0.01	0.50	0.15	1.02	0.12	0.51	0.34
47	3	7	11.47	0.07	0.09	0.07	0.67	-0.01	0.50	0.15	1.01	0.12	0.51	0.34
48	3	8	11.47	0.07	0.09	0.07	0.67	-0.01	0.50	0.15	1.01	0.12	0.51	0.34
49	3	9	11.46	0.07	0.09	0.07	0.67	-0.01	0.50	0.15	1.01	0.12	0.51	0.34
50	3	10	11.46	0.07	0.09	0.07	0.67	-0.01	0.50	0.15	1.01	0.12	0.51	0.34
51	3	11	11.45	0.07	0.09	0.07	0.67	-0.01	0.50	0.15	1.01	0.12	0.51	0.34
52	3	12	11.44	0.07	0.09	0.07	0.68	-0.01	0.50	0.15	1.01	0.12	0.51	0.34
53	3	13	11.44	0.07	0.09	0.07	0.68	-0.01	0.50	0.15	1.01	0.12	0.51	0.34
54	3	14	11.43	0.07	0.09	0.07	0.68	-0.01	0.50	0.15	1.01	0.12	0.51	0.34
55	3	15	11.43	0.07	0.09	0.07	0.68	-0.01	0.50	0.15	1.01	0.12	0.51	0.34
56	3	16	11.42	0.07	0.09	0.07	0.68	-0.01	0.50	0.15	1.01	0.12	0.51	0.34
57	3	17	11.42	0.07	0.09	0.07	0.68	-0.01	0.50	0.15	1.01	0.12	0.51	0.34
58	3	18	11.41	0.07	0.09	0.07	0.68	-0.01	0.50	0.15	1.01	0.12	0.51	0.34
59	3	19	11.41	0.07	0.09	0.07	0.68	-0.01	0.50	0.15	1.01	0.12	0.51	0.34
60	3	20	11.40	0.07	0.09	0.07	0.68	-0.01	0.50	0.14	1.01	0.12	0.51	0.34
61	4	1	11.39	0.06	0.09	0.07	0.51	-0.02	0.50	0.14	1.01	0.09	0.51	0.34
62	4	2	11.38	0.06	0.09	0.07	0.51	-0.02	0.50	0.14	1.01	0.09	0.51	0.34
63	4	3	11.36	0.06	0.09	0.07	0.52	-0.02	0.50	0.14	1.01	0.09	0.51	0.34
64	4	4	11.35	0.06	0.09	0.07	0.52	-0.02	0.50	0.14	1.01	0.09	0.51	0.34
65	4	5	11.34	0.06	0.09	0.07	0.52	-0.02	0.50	0.14	1.01	0.09	0.51	0.35
66	4	6	11.33	0.06	0.09	0.07	0.52	-0.02	0.50	0.14	1.01	0.09	0.51	0.35
67	4	7	11.31	0.06	0.09	0.07	0.52	-0.02	0.50	0.14	1.01	0.09	0.51	0.35
68	4	8	11.30	0.06	0.09	0.07	0.52	-0.02	0.50	0.14	1.01	0.09	0.51	0.35
69	4	9	11.29	0.06	0.09	0.07	0.52	-0.02	0.50	0.14	1.01	0.09	0.51	0.35
70	4	10	11.27	0.06	0.09	0.07	0.52	-0.02	0.50	0.14	1.01	0.09	0.51	0.35
71	4	11	11.26	0.06	0.09	0.07	0.52	-0.02	0.50	0.14	1.01	0.09	0.51	0.35
72	4	12	11.25	0.06	0.09	0.07	0.52	-0.02	0.50	0.14	1.01	0.09	0.51	0.35
73	4	13	11.24	0.06	0.09	0.07	0.52	-0.02	0.50	0.14	1.01	0.09	0.51	0.35
74	4	14	11.22	0.06	0.09	0.07	0.52	-0.02	0.50	0.14	1.01	0.09	0.51	0.35
75	4	15	11.21	0.06	0.09	0.07	0.52	-0.02	0.50	0.14	1.01	0.09	0.51	0.35
76	4	16	11.20	0.06	0.09	0.07	0.52	-0.02	0.50	0.14	1.01	0.09	0.51	0.35
77	4	17	11.19	0.06	0.09	0.07	0.53	-0.02	0.50	0.14	1.01	0.09	0.51	0.35
78	4	18	11.17	0.06	0.09	0.07	0.53	-0.02	0.50	0.14	1.01	0.09	0.51	0.35
79	4	19	11.16	0.06	0.09	0.07	0.53	-0.02	0.50	0.14	1.01	0.09	0.51	0.35
80	4	20	11.15	0.06	0.09	0.07	0.53	-0.02	0.50	0.14	1.01	0.09	0.51	0.35

81	5	1	11.13	0.05	0.09	0.07	0.42	-0.03	0.50	0.14	1.01	0.07	0.51	0.35
82	5	2	11.11	0.05	0.09	0.07	0.42	-0.03	0.50	0.14	1.01	0.07	0.51	0.35
83	5	3	11.09	0.05	0.09	0.07	0.42	-0.03	0.50	0.14	1.01	0.07	0.51	0.35
84	5	4	11.07	0.05	0.09	0.07	0.42	-0.03	0.50	0.14	1.01	0.07	0.52	0.35

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 27
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** ALGAE DATA **

ELE ORD	RCH NUM	ELE NUM	CHLA UG/L	ALGY GRWTH 1/DAY	ALGY RESP 1/DAY	ALGY SETT FT/DA	A P/R RATIO *	NET P-R MG/L-D	NH3 PREF *	NH3-N FRACT N-UPTKE *	LIGHT EXTCO 1/FT	ALGAE GROWTH RATE ATTEN FACTORS LIGHT *	NITRGN *	PHSPRS *
85	5	5	11.05	0.05	0.09	0.07	0.43	-0.03	0.50	0.14	1.01	0.07	0.52	0.35
86	5	6	11.04	0.05	0.09	0.07	0.43	-0.03	0.50	0.14	1.01	0.07	0.52	0.35
87	5	7	11.02	0.05	0.09	0.07	0.43	-0.03	0.50	0.14	1.01	0.07	0.52	0.35
88	5	8	11.00	0.05	0.09	0.07	0.43	-0.02	0.50	0.14	1.01	0.07	0.52	0.35
89	5	9	10.98	0.05	0.09	0.07	0.43	-0.02	0.50	0.14	1.01	0.07	0.52	0.35
90	5	10	10.96	0.05	0.09	0.07	0.43	-0.02	0.50	0.14	1.01	0.07	0.52	0.35
91	5	11	10.94	0.05	0.09	0.07	0.43	-0.02	0.50	0.14	1.01	0.07	0.52	0.35
92	5	12	10.92	0.05	0.09	0.07	0.43	-0.02	0.50	0.14	1.01	0.07	0.52	0.35
93	5	13	10.90	0.05	0.09	0.07	0.43	-0.02	0.50	0.14	1.01	0.07	0.52	0.35
94	5	14	10.89	0.05	0.09	0.07	0.43	-0.02	0.50	0.14	1.01	0.07	0.52	0.36
95	5	15	10.87	0.05	0.09	0.07	0.43	-0.02	0.50	0.14	1.01	0.07	0.52	0.36
96	5	16	10.85	0.05	0.09	0.07	0.43	-0.02	0.50	0.14	1.01	0.07	0.52	0.36
97	5	17	10.83	0.05	0.09	0.07	0.44	-0.02	0.50	0.14	1.01	0.07	0.52	0.36
98	5	18	10.81	0.05	0.09	0.07	0.44	-0.02	0.50	0.14	1.01	0.07	0.52	0.36
99	5	19	10.79	0.05	0.09	0.07	0.44	-0.02	0.50	0.14	1.01	0.07	0.52	0.36
100	5	20	10.78	0.05	0.09	0.07	0.44	-0.02	0.50	0.14	1.01	0.07	0.52	0.36
101	6	1	10.76	0.05	0.09	0.07	0.44	-0.02	0.50	0.14	1.01	0.07	0.52	0.36
102	6	2	10.74	0.05	0.09	0.07	0.44	-0.02	0.50	0.14	1.01	0.07	0.52	0.36
103	6	3	10.72	0.05	0.09	0.07	0.44	-0.02	0.50	0.14	1.01	0.07	0.52	0.36
104	6	4	10.70	0.05	0.09	0.07	0.44	-0.02	0.50	0.14	1.01	0.07	0.52	0.36
105	6	5	10.68	0.05	0.09	0.07	0.45	-0.02	0.50	0.14	1.01	0.07	0.52	0.36
106	6	6	10.66	0.05	0.09	0.07	0.45	-0.02	0.50	0.14	1.01	0.07	0.52	0.36
107	6	7	10.65	0.05	0.09	0.07	0.45	-0.02	0.50	0.14	1.01	0.07	0.52	0.36
108	6	8	10.63	0.05	0.09	0.07	0.45	-0.02	0.50	0.14	1.01	0.07	0.52	0.36
109	6	9	10.61	0.05	0.09	0.07	0.45	-0.02	0.50	0.14	1.01	0.07	0.52	0.36
110	6	10	10.59	0.05	0.09	0.07	0.45	-0.02	0.50	0.14	1.01	0.07	0.52	0.36
111	6	11	10.57	0.05	0.09	0.07	0.45	-0.02	0.50	0.13	1.01	0.07	0.52	0.36
112	6	12	10.56	0.05	0.09	0.07	0.45	-0.02	0.50	0.13	1.01	0.07	0.53	0.36
113	6	13	10.54	0.05	0.09	0.07	0.45	-0.02	0.50	0.13	1.01	0.07	0.53	0.36
114	6	14	10.52	0.05	0.09	0.07	0.45	-0.02	0.50	0.13	1.01	0.07	0.53	0.36
115	6	15	10.50	0.05	0.09	0.07	0.45	-0.02	0.50	0.13	1.01	0.07	0.53	0.36
116	6	16	10.49	0.05	0.09	0.07	0.46	-0.02	0.50	0.14	1.01	0.07	0.53	0.37
117	6	17	10.48	0.05	0.09	0.07	0.46	-0.02	0.50	0.14	1.01	0.07	0.53	0.37
118	6	18	10.46	0.05	0.09	0.07	0.46	-0.02	0.50	0.13	1.01	0.07	0.53	0.37
119	6	19	10.44	0.05	0.09	0.07	0.46	-0.02	0.50	0.13	1.01	0.07	0.53	0.37

120	6	20	10.42	0.05	0.09	0.07	0.46	-0.02	0.50	0.13	1.01	0.07	0.53	0.37
121	7	1	10.41	0.05	0.09	0.07	0.47	-0.02	0.50	0.13	1.01	0.07	0.53	0.37
122	7	2	10.39	0.05	0.09	0.07	0.47	-0.02	0.50	0.13	1.01	0.07	0.53	0.37
123	7	3	10.37	0.05	0.09	0.07	0.47	-0.02	0.50	0.13	1.01	0.07	0.53	0.37
124	7	4	10.34	0.05	0.09	0.07	0.47	-0.02	0.50	0.13	1.01	0.07	0.53	0.37
125	7	5	9.97	0.05	0.09	0.07	0.47	-0.02	0.50	0.13	1.00	0.07	0.53	0.37
126	7	6	9.95	0.05	0.09	0.07	0.47	-0.02	0.50	0.13	1.00	0.07	0.53	0.37

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 28
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** ALGAE DATA **

ELE ORD	RCH NUM	ELE NUM	CHLA UG/L	ALGY GRWTH 1/DAY	ALGY RESP 1/DAY	ALGY SETT FT/DA	A P/R RATIO *	NET P-R MG/L-D	NH3 PREF *	NH3-N FRACT N-UPTKE *	LIGHT EXTCO 1/FT	ALGAE GROWTH RATE ATTEN FACTORS LIGHT *	NITRGN *	PHSPRS *
127	7	7	9.94	0.05	0.09	0.07	0.48	-0.02	0.50	0.13	1.00	0.07	0.53	0.37
128	7	8	9.92	0.05	0.09	0.07	0.48	-0.02	0.50	0.13	1.00	0.07	0.53	0.37
129	7	9	9.90	0.05	0.09	0.07	0.48	-0.02	0.50	0.13	1.00	0.07	0.53	0.37
130	7	10	9.88	0.05	0.09	0.07	0.48	-0.02	0.50	0.13	1.00	0.07	0.53	0.37
131	7	11	9.87	0.05	0.09	0.07	0.48	-0.02	0.50	0.13	1.00	0.07	0.53	0.37
132	7	12	9.85	0.05	0.09	0.07	0.48	-0.02	0.50	0.13	1.00	0.07	0.53	0.37
133	7	13	9.83	0.05	0.09	0.07	0.48	-0.02	0.50	0.13	1.00	0.07	0.53	0.37
134	7	14	9.82	0.05	0.09	0.07	0.48	-0.02	0.50	0.13	1.00	0.07	0.54	0.37
135	7	15	9.80	0.05	0.09	0.07	0.48	-0.02	0.50	0.13	1.00	0.07	0.54	0.37
136	7	16	9.78	0.05	0.09	0.07	0.48	-0.02	0.50	0.13	1.00	0.07	0.54	0.37
137	7	17	9.77	0.05	0.09	0.07	0.48	-0.02	0.50	0.13	1.00	0.07	0.54	0.37
138	7	18	9.75	0.05	0.09	0.07	0.49	-0.02	0.50	0.13	1.00	0.07	0.54	0.37
139	7	19	9.73	0.05	0.09	0.07	0.49	-0.02	0.50	0.13	1.00	0.07	0.54	0.37
140	7	20	9.72	0.05	0.09	0.07	0.49	-0.02	0.50	0.13	1.00	0.07	0.54	0.37
141	8	1	9.70	0.05	0.09	0.07	0.49	-0.02	0.50	0.13	1.00	0.07	0.54	0.37
142	8	2	9.68	0.06	0.09	0.07	0.49	-0.02	0.50	0.13	1.00	0.07	0.54	0.38
143	8	3	9.67	0.06	0.09	0.07	0.50	-0.02	0.50	0.13	1.00	0.07	0.54	0.38
144	8	4	9.65	0.06	0.09	0.07	0.50	-0.02	0.50	0.13	1.00	0.07	0.54	0.38
145	8	5	9.63	0.06	0.09	0.07	0.50	-0.02	0.50	0.13	1.00	0.07	0.54	0.38
146	8	6	9.62	0.06	0.09	0.07	0.50	-0.02	0.50	0.13	1.00	0.07	0.54	0.38
147	8	7	9.60	0.06	0.09	0.07	0.50	-0.02	0.50	0.12	1.00	0.07	0.54	0.38
148	8	8	9.58	0.06	0.09	0.07	0.50	-0.02	0.50	0.12	1.00	0.07	0.54	0.38
149	8	9	9.57	0.06	0.09	0.07	0.50	-0.02	0.50	0.12	1.00	0.07	0.54	0.38
150	8	10	9.55	0.06	0.09	0.07	0.50	-0.02	0.50	0.12	1.00	0.07	0.54	0.38
151	8	11	9.53	0.06	0.09	0.07	0.50	-0.02	0.50	0.12	1.00	0.07	0.54	0.38
152	8	12	9.52	0.06	0.09	0.07	0.50	-0.02	0.50	0.12	1.00	0.07	0.54	0.38
153	8	13	9.50	0.06	0.09	0.07	0.51	-0.02	0.50	0.12	1.00	0.07	0.54	0.38
154	8	14	9.49	0.06	0.09	0.07	0.51	-0.02	0.50	0.12	1.00	0.07	0.54	0.38
155	8	15	9.47	0.06	0.09	0.07	0.51	-0.02	0.50	0.12	1.00	0.07	0.55	0.38
156	8	16	9.46	0.06	0.09	0.07	0.51	-0.02	0.50	0.12	1.00	0.07	0.55	0.38

157	8	17	9.44	0.06	0.09	0.07	0.51	-0.02	0.50	0.12	1.00	0.07	0.55	0.38
158	8	18	9.44	0.06	0.09	0.07	0.56	-0.02	0.50	0.15	1.00	0.07	0.55	0.41
159	8	19	9.43	0.06	0.09	0.07	0.56	-0.02	0.50	0.15	1.00	0.07	0.55	0.41
160	8	20	9.42	0.06	0.09	0.07	0.56	-0.02	0.50	0.15	1.00	0.07	0.55	0.41
161	9	1	9.40	0.06	0.09	0.07	0.57	-0.02	0.50	0.15	1.00	0.08	0.55	0.41
162	9	2	9.39	0.06	0.09	0.07	0.57	-0.02	0.50	0.14	1.00	0.08	0.55	0.41
163	9	3	9.38	0.06	0.09	0.07	0.57	-0.02	0.50	0.14	1.00	0.08	0.56	0.41
164	9	4	9.35	0.07	0.09	0.07	0.60	-0.02	0.50	0.14	1.00	0.08	0.57	0.42
165	9	5	9.34	0.07	0.09	0.07	0.60	-0.02	0.50	0.14	1.00	0.08	0.57	0.42
166	9	6	9.33	0.07	0.09	0.07	0.60	-0.02	0.50	0.14	1.00	0.08	0.57	0.42
167	9	7	9.32	0.07	0.09	0.07	0.60	-0.01	0.50	0.14	1.00	0.08	0.57	0.42
168	9	8	9.31	0.07	0.09	0.07	0.60	-0.01	0.50	0.13	1.00	0.08	0.57	0.42

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 29
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** ALGAE DATA **

ELE ORD	RCH NUM	ELE NUM	CHLA UG/L	ALGY GRWTH 1/DAY	ALGY RESP 1/DAY	ALGY SETT FT/DA	A P/R RATIO *	NET P-R MG/L-D	NH3 PREF *	NH3-N FRACT N-UPTKE *	LIGHT EXTCO 1/FT	ALGAE GROWTH RATE ATTEN FACTORS LIGHT *	NITRGN *	PHSPRS *
169	9	9	9.30	0.07	0.09	0.07	0.60	-0.01	0.50	0.13	1.00	0.08	0.57	0.42
170	9	10	9.29	0.07	0.09	0.07	0.60	-0.01	0.50	0.13	1.00	0.08	0.57	0.42
171	9	11	9.28	0.07	0.09	0.07	0.60	-0.01	0.50	0.13	1.00	0.08	0.57	0.42
172	9	12	9.27	0.07	0.09	0.07	0.60	-0.01	0.50	0.13	1.00	0.08	0.57	0.42
173	9	13	9.26	0.07	0.09	0.07	0.60	-0.01	0.50	0.13	1.00	0.08	0.57	0.42
174	9	14	9.25	0.07	0.09	0.07	0.60	-0.01	0.50	0.13	1.00	0.08	0.57	0.42
175	9	15	9.24	0.07	0.09	0.07	0.60	-0.01	0.50	0.13	1.00	0.08	0.57	0.42
176	9	16	9.23	0.07	0.09	0.07	0.61	-0.01	0.50	0.13	1.00	0.08	0.58	0.42
177	9	17	9.22	0.07	0.09	0.07	0.61	-0.01	0.50	0.13	1.00	0.08	0.58	0.42
178	9	18	9.21	0.07	0.09	0.07	0.61	-0.01	0.50	0.13	1.00	0.08	0.58	0.42
179	9	19	9.20	0.07	0.09	0.07	0.61	-0.01	0.50	0.13	1.00	0.08	0.58	0.43
180	9	20	9.19	0.07	0.09	0.07	0.61	-0.01	0.50	0.13	1.00	0.08	0.58	0.43
181	10	1	9.18	0.07	0.09	0.07	0.62	-0.01	0.50	0.13	1.00	0.08	0.58	0.43
182	10	2	9.18	0.07	0.09	0.07	0.62	-0.01	0.50	0.13	1.00	0.08	0.58	0.43
183	10	3	9.17	0.07	0.09	0.07	0.62	-0.01	0.50	0.13	1.00	0.08	0.58	0.43
184	10	4	9.16	0.07	0.09	0.07	0.62	-0.01	0.50	0.13	1.00	0.08	0.58	0.43
185	10	5	9.16	0.07	0.09	0.07	0.62	-0.01	0.50	0.13	1.00	0.08	0.58	0.43
186	10	6	9.15	0.07	0.09	0.07	0.62	-0.01	0.50	0.12	1.00	0.08	0.58	0.43
187	10	7	9.14	0.07	0.09	0.07	0.62	-0.01	0.50	0.12	1.00	0.08	0.58	0.43
188	10	8	9.15	0.07	0.09	0.07	0.62	-0.01	0.50	0.12	1.00	0.08	0.58	0.43
189	10	9	9.14	0.07	0.09	0.07	0.62	-0.01	0.50	0.12	1.00	0.08	0.58	0.43
190	10	10	9.13	0.07	0.09	0.07	0.63	-0.01	0.50	0.12	1.00	0.08	0.58	0.43
191	10	11	9.13	0.07	0.09	0.07	0.63	-0.01	0.50	0.12	1.00	0.08	0.58	0.43
192	10	12	9.12	0.07	0.09	0.07	0.63	-0.01	0.50	0.12	1.00	0.08	0.58	0.43
193	10	13	9.11	0.07	0.09	0.07	0.63	-0.01	0.50	0.12	1.00	0.08	0.58	0.43

194	10	14	9.11	0.07	0.09	0.07	0.63	-0.01	0.50	0.12	1.00	0.08	0.58	0.43
195	10	15	9.10	0.07	0.09	0.07	0.63	-0.01	0.50	0.12	1.00	0.08	0.58	0.43
196	10	16	9.10	0.07	0.09	0.07	0.63	-0.01	0.50	0.12	1.00	0.08	0.58	0.43
197	10	17	9.09	0.07	0.09	0.07	0.63	-0.01	0.50	0.12	1.00	0.08	0.58	0.43
198	10	18	9.08	0.07	0.09	0.07	0.63	-0.01	0.50	0.12	1.00	0.08	0.58	0.43
199	10	19	9.08	0.07	0.09	0.07	0.63	-0.01	0.50	0.12	1.00	0.08	0.58	0.43
200	10	20	9.07	0.07	0.09	0.07	0.63	-0.01	0.50	0.12	1.00	0.08	0.58	0.43
201	11	1	9.06	0.07	0.09	0.07	0.64	-0.01	0.50	0.12	1.00	0.08	0.58	0.43
202	11	2	9.06	0.07	0.09	0.07	0.64	-0.01	0.50	0.12	1.00	0.08	0.58	0.43
203	11	3	9.05	0.07	0.09	0.07	0.64	-0.01	0.50	0.12	1.00	0.08	0.58	0.43
204	11	4	9.05	0.07	0.09	0.07	0.64	-0.01	0.50	0.12	1.00	0.08	0.58	0.43
205	11	5	9.04	0.07	0.09	0.07	0.65	-0.01	0.50	0.12	1.00	0.08	0.58	0.43
206	11	6	9.04	0.07	0.09	0.07	0.65	-0.01	0.50	0.12	1.00	0.08	0.58	0.43
207	11	7	9.03	0.07	0.09	0.07	0.65	-0.01	0.50	0.12	1.00	0.08	0.58	0.43
208	11	8	9.02	0.07	0.09	0.07	0.65	-0.01	0.50	0.12	1.00	0.08	0.58	0.43
209	11	9	9.02	0.07	0.09	0.07	0.65	-0.01	0.50	0.12	1.00	0.08	0.59	0.43
210	11	10	9.01	0.07	0.09	0.07	0.65	-0.01	0.50	0.12	1.00	0.08	0.59	0.43

***** STEADY STATE SIMULATION *****

** ALGAE DATA **

ELE ORD	RCH NUM	ELE NUM	CHLA UG/L	ALGY GRWTH 1/DAY	ALGY RESP 1/DAY	ALGY SETT FT/DA	A P/R RATIO *	NET P-R MG/L-D	NH3 PREF *	NH3-N FRACT N-UPTKE *	LIGHT EXTCO 1/FT	ALGAE GROWTH RATE ATTEN FACTORS LIGHT *	NITRGN *	PHSPRS *
211	11	11	9.01	0.07	0.09	0.07	0.65	-0.01	0.50	0.11	1.00	0.08	0.59	0.43
212	11	12	9.00	0.07	0.09	0.07	0.65	-0.01	0.50	0.11	1.00	0.08	0.59	0.43
213	11	13	9.00	0.07	0.09	0.07	0.65	-0.01	0.50	0.11	1.00	0.08	0.59	0.43
214	11	14	8.99	0.07	0.09	0.07	0.65	-0.01	0.50	0.11	1.00	0.08	0.59	0.43
215	11	15	8.99	0.07	0.09	0.07	0.65	-0.01	0.50	0.11	1.00	0.08	0.59	0.43
216	11	16	8.98	0.07	0.09	0.07	0.65	-0.01	0.50	0.11	1.00	0.08	0.59	0.43
217	11	17	8.98	0.07	0.09	0.07	0.65	-0.01	0.50	0.11	1.00	0.08	0.59	0.43
218	11	18	8.97	0.07	0.09	0.07	0.66	-0.01	0.50	0.11	1.00	0.08	0.59	0.43
219	11	19	8.97	0.07	0.09	0.07	0.66	-0.01	0.50	0.11	1.00	0.08	0.59	0.43
220	11	20	8.96	0.07	0.09	0.07	0.66	-0.01	0.50	0.11	1.00	0.08	0.59	0.44
221	12	1	8.95	0.06	0.09	0.07	0.52	-0.02	0.50	0.11	1.00	0.06	0.59	0.44
222	12	2	8.94	0.06	0.09	0.07	0.52	-0.02	0.50	0.11	1.00	0.06	0.59	0.44
223	12	3	8.93	0.06	0.09	0.07	0.52	-0.02	0.50	0.11	1.00	0.06	0.59	0.44
224	12	4	8.91	0.06	0.09	0.07	0.52	-0.02	0.50	0.11	1.00	0.06	0.59	0.44
225	12	5	8.90	0.06	0.09	0.07	0.52	-0.02	0.50	0.11	0.99	0.06	0.59	0.44
226	12	6	8.89	0.06	0.09	0.07	0.52	-0.02	0.50	0.11	0.99	0.06	0.59	0.44
227	12	7	8.88	0.06	0.09	0.07	0.52	-0.02	0.50	0.11	0.99	0.06	0.59	0.44
228	12	8	8.87	0.06	0.09	0.07	0.52	-0.02	0.50	0.11	0.99	0.06	0.59	0.44
229	12	9	8.86	0.06	0.09	0.07	0.53	-0.02	0.50	0.11	0.99	0.06	0.59	0.44
230	12	10	8.84	0.06	0.09	0.07	0.53	-0.02	0.50	0.11	0.99	0.06	0.59	0.44

231	12	11	8.83	0.06	0.09	0.07	0.53	-0.02	0.50	0.11	0.99	0.06	0.59	0.44
232	12	12	8.82	0.06	0.09	0.07	0.53	-0.02	0.50	0.11	0.99	0.06	0.59	0.44
233	12	13	8.81	0.06	0.09	0.07	0.53	-0.02	0.50	0.11	0.99	0.06	0.59	0.44
234	12	14	8.80	0.06	0.09	0.07	0.53	-0.02	0.50	0.11	0.99	0.06	0.59	0.44
235	12	15	8.79	0.06	0.09	0.07	0.53	-0.02	0.50	0.11	0.99	0.06	0.59	0.44
236	12	16	8.78	0.06	0.09	0.07	0.53	-0.02	0.50	0.11	0.99	0.06	0.59	0.44
237	12	17	8.76	0.06	0.09	0.07	0.53	-0.02	0.50	0.11	0.99	0.06	0.60	0.44
238	12	18	8.75	0.06	0.09	0.07	0.53	-0.02	0.50	0.11	0.99	0.06	0.60	0.44
239	12	19	8.74	0.06	0.09	0.07	0.53	-0.02	0.50	0.11	0.99	0.06	0.60	0.44
240	12	20	8.73	0.06	0.09	0.07	0.53	-0.02	0.50	0.11	0.99	0.06	0.60	0.44
241	13	1	8.72	0.05	0.09	0.07	0.48	-0.02	0.50	0.11	0.91	0.06	0.60	0.44
242	13	2	8.71	0.05	0.09	0.07	0.48	-0.02	0.50	0.10	0.91	0.06	0.60	0.44
243	13	3	8.69	0.05	0.09	0.07	0.48	-0.02	0.50	0.10	0.91	0.06	0.60	0.44
244	13	4	8.68	0.05	0.09	0.07	0.48	-0.02	0.50	0.10	0.91	0.06	0.60	0.44
245	13	5	8.67	0.05	0.09	0.07	0.48	-0.02	0.50	0.10	0.91	0.06	0.60	0.44
246	13	6	8.65	0.05	0.09	0.07	0.48	-0.02	0.50	0.10	0.91	0.06	0.60	0.44
247	13	7	8.64	0.05	0.09	0.07	0.48	-0.02	0.50	0.10	0.91	0.06	0.60	0.44
248	13	8	8.63	0.05	0.09	0.07	0.49	-0.02	0.50	0.10	0.91	0.06	0.60	0.44
249	13	9	8.62	0.05	0.09	0.07	0.49	-0.02	0.50	0.10	0.91	0.06	0.60	0.44
250	13	10	8.60	0.05	0.09	0.07	0.49	-0.02	0.50	0.10	0.91	0.06	0.60	0.44
251	13	11	8.59	0.05	0.09	0.07	0.49	-0.02	0.50	0.10	0.91	0.06	0.60	0.45
252	13	12	8.58	0.05	0.09	0.07	0.49	-0.02	0.50	0.10	0.91	0.06	0.60	0.45

STREAM QUALITY SIMULATION — OUTPUT PAGE NUMBER 31
QUAL-2E STREAM QUALITY ROUTING MODEL — Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** ALGAE DATA **

ELE ORD	RCH NUM	ELE NUM	CHLA UG/L	ALGY GRWTH 1/DAY	ALGY RESP 1/DAY	ALGY SETT FT/DA	A P/R RATIO *	NET P-R MG/L-D	NH3 PREF *	NH3-N FRACT N-UPTKE *	LIGHT EXTCO 1/FT	ALGAE GROWTH RATE ATTEN FACTORS LIGHT *	NITRGN *	PHSPRS *
253	13	13	8.57	0.05	0.09	0.07	0.49	-0.02	0.50	0.10	0.91	0.06	0.60	0.45
254	13	14	8.55	0.05	0.09	0.07	0.49	-0.02	0.50	0.10	0.91	0.06	0.60	0.45
255	13	15	8.54	0.05	0.09	0.07	0.49	-0.02	0.50	0.10	0.91	0.06	0.60	0.45
256	13	16	8.53	0.05	0.09	0.07	0.49	-0.02	0.50	0.10	0.91	0.06	0.60	0.45
257	13	17	8.52	0.05	0.09	0.07	0.49	-0.02	0.50	0.10	0.91	0.06	0.60	0.45
258	13	18	8.51	0.05	0.09	0.07	0.49	-0.02	0.50	0.10	0.91	0.06	0.60	0.45
259	13	19	8.49	0.05	0.09	0.07	0.49	-0.02	0.50	0.10	0.91	0.06	0.61	0.45
260	13	20	8.48	0.05	0.09	0.07	0.49	-0.02	0.50	0.10	0.91	0.06	0.61	0.45
261	14	1	8.47	0.06	0.09	0.07	0.54	-0.02	0.50	0.10	0.91	0.06	0.61	0.45
262	14	2	8.46	0.06	0.09	0.07	0.54	-0.02	0.50	0.10	0.91	0.06	0.61	0.45
263	14	3	8.45	0.06	0.09	0.07	0.54	-0.02	0.50	0.10	0.91	0.06	0.61	0.45
264	14	4	8.44	0.06	0.09	0.07	0.54	-0.02	0.50	0.10	0.91	0.06	0.61	0.45
265	14	5	8.43	0.06	0.09	0.07	0.54	-0.02	0.50	0.10	0.91	0.06	0.61	0.45
266	14	6	8.42	0.06	0.09	0.07	0.54	-0.02	0.50	0.10	0.91	0.06	0.61	0.45
267	14	7	8.41	0.06	0.09	0.07	0.54	-0.02	0.50	0.10	0.91	0.06	0.61	0.45

268	14	8	8.40	0.06	0.09	0.07	0.54	-0.02	0.50	0.10	0.91	0.06	0.61	0.45
269	14	9	8.39	0.06	0.09	0.07	0.55	-0.02	0.50	0.10	0.91	0.06	0.61	0.45
270	14	10	8.38	0.06	0.09	0.07	0.55	-0.02	0.50	0.10	0.91	0.06	0.61	0.45
271	14	11	8.37	0.06	0.09	0.07	0.55	-0.02	0.50	0.10	0.91	0.06	0.61	0.45
272	14	12	8.36	0.06	0.09	0.07	0.55	-0.02	0.50	0.10	0.91	0.06	0.61	0.45
273	14	13	8.35	0.06	0.09	0.07	0.55	-0.02	0.50	0.10	0.91	0.06	0.61	0.45
274	14	14	8.34	0.06	0.09	0.07	0.55	-0.02	0.50	0.10	0.91	0.06	0.61	0.45
275	14	15	8.33	0.06	0.09	0.07	0.55	-0.01	0.50	0.09	0.91	0.06	0.61	0.45
276	14	16	8.32	0.06	0.09	0.07	0.55	-0.01	0.50	0.09	0.91	0.06	0.61	0.45
277	14	17	8.32	0.06	0.09	0.07	0.55	-0.01	0.50	0.09	0.91	0.06	0.61	0.45
278	14	18	8.31	0.06	0.09	0.07	0.55	-0.01	0.50	0.09	0.91	0.06	0.61	0.45
279	14	19	8.30	0.06	0.09	0.07	0.55	-0.01	0.50	0.09	0.91	0.06	0.61	0.45
280	14	20	8.29	0.06	0.09	0.07	0.55	-0.01	0.50	0.09	0.91	0.06	0.61	0.45
281	15	1	8.28	0.07	0.09	0.07	0.61	-0.01	0.50	0.09	0.91	0.07	0.61	0.46
282	15	2	8.27	0.07	0.09	0.07	0.61	-0.01	0.50	0.09	0.91	0.07	0.62	0.46
283	15	3	8.27	0.07	0.09	0.07	0.61	-0.01	0.50	0.09	0.91	0.07	0.62	0.46
284	15	4	8.26	0.07	0.09	0.07	0.61	-0.01	0.50	0.09	0.91	0.07	0.62	0.46
285	15	5	8.25	0.07	0.09	0.07	0.61	-0.01	0.50	0.09	0.91	0.07	0.62	0.46
286	15	6	8.25	0.07	0.09	0.07	0.61	-0.01	0.50	0.09	0.91	0.07	0.62	0.46
287	15	7	8.24	0.07	0.09	0.07	0.61	-0.01	0.50	0.09	0.91	0.07	0.62	0.46
288	15	8	8.24	0.07	0.09	0.07	0.61	-0.01	0.50	0.09	0.91	0.07	0.62	0.46
289	15	9	8.23	0.07	0.09	0.07	0.61	-0.01	0.50	0.09	0.91	0.07	0.62	0.46
290	15	10	8.22	0.07	0.09	0.07	0.62	-0.01	0.50	0.09	0.91	0.07	0.62	0.46
291	15	11	8.22	0.07	0.09	0.07	0.62	-0.01	0.50	0.09	0.91	0.07	0.62	0.46
292	15	12	8.21	0.07	0.09	0.07	0.62	-0.01	0.50	0.09	0.91	0.07	0.62	0.46
293	15	13	8.20	0.07	0.09	0.07	0.62	-0.01	0.50	0.09	0.91	0.07	0.62	0.46
294	15	14	8.20	0.07	0.09	0.07	0.62	-0.01	0.50	0.09	0.91	0.07	0.62	0.46

STREAM QUALITY SIMULATION — OUTPUT PAGE NUMBER 32
QUAL-2E STREAM QUALITY ROUTING MODEL — Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** ALGAE DATA **

ELE ORD	RCH NUM	ELE NUM	CHLA UG/L	ALGY GRWTH 1/DAY	ALGY RESP 1/DAY	ALGY SETT FT/DA	A P/R RATIO *	NET P-R MG/L-D	NH3 PREF *	NH3-N FRACT N-UPTKE *	LIGHT EXTCO 1/FT	ALGAE GROWTH RATE ATTEN FACTORS LIGHT *	NITRGN *	PHSPRS *
295	15	15	8.19	0.07	0.09	0.07	0.62	-0.01	0.50	0.09	0.91	0.07	0.62	0.46
296	15	16	8.19	0.07	0.09	0.07	0.62	-0.01	0.50	0.09	0.91	0.07	0.62	0.46
297	15	17	8.18	0.07	0.09	0.07	0.62	-0.01	0.50	0.09	0.91	0.07	0.62	0.46
298	15	18	8.17	0.07	0.09	0.07	0.62	-0.01	0.50	0.09	0.91	0.07	0.62	0.46
299	15	19	8.17	0.07	0.09	0.07	0.62	-0.01	0.50	0.09	0.91	0.07	0.62	0.46
300	15	20	8.16	0.07	0.09	0.07	0.62	-0.01	0.50	0.09	0.91	0.07	0.62	0.46
301	16	1	8.16	0.09	0.09	0.07	0.78	-0.01	0.50	0.09	0.81	0.08	0.62	0.46
302	16	2	8.16	0.09	0.09	0.07	0.78	-0.01	0.50	0.09	0.81	0.08	0.62	0.46
303	16	3	8.16	0.09	0.09	0.07	0.78	-0.01	0.50	0.09	0.81	0.08	0.62	0.46
304	16	4	8.16	0.09	0.09	0.07	0.78	-0.01	0.50	0.09	0.81	0.08	0.62	0.46

305	16	5	8.16	0.09	0.09	0.07	0.78	-0.01	0.50	0.09	0.81	0.08	0.62	0.46
306	16	6	8.15	0.09	0.09	0.07	0.78	-0.01	0.50	0.09	0.81	0.08	0.63	0.46
307	16	7	8.15	0.09	0.09	0.07	0.78	-0.01	0.50	0.09	0.81	0.08	0.63	0.46
308	16	8	8.15	0.09	0.09	0.07	0.78	-0.01	0.50	0.09	0.81	0.08	0.63	0.46
309	16	9	8.15	0.09	0.09	0.07	0.78	-0.01	0.50	0.09	0.81	0.08	0.63	0.46
310	16	10	8.15	0.09	0.09	0.07	0.78	-0.01	0.50	0.09	0.81	0.08	0.63	0.46
311	16	11	8.15	0.09	0.09	0.07	0.79	-0.01	0.50	0.09	0.81	0.08	0.63	0.46
312	16	12	8.15	0.09	0.09	0.07	0.79	-0.01	0.50	0.09	0.81	0.08	0.63	0.46
313	16	13	8.15	0.09	0.09	0.07	0.79	-0.01	0.50	0.09	0.81	0.08	0.63	0.46
314	16	14	8.15	0.09	0.09	0.07	0.79	-0.01	0.50	0.09	0.81	0.08	0.63	0.46
315	16	15	8.15	0.09	0.09	0.07	0.79	-0.01	0.50	0.09	0.81	0.08	0.63	0.47
316	16	16	8.15	0.09	0.09	0.07	0.79	-0.01	0.50	0.08	0.81	0.08	0.63	0.47
317	16	17	8.14	0.09	0.09	0.07	0.79	-0.01	0.50	0.08	0.81	0.08	0.63	0.47
318	16	18	8.14	0.09	0.09	0.07	0.79	-0.01	0.50	0.08	0.81	0.08	0.63	0.47
319	16	19	8.14	0.09	0.09	0.07	0.79	-0.01	0.50	0.08	0.81	0.08	0.63	0.47
320	16	20	8.14	0.09	0.09	0.07	0.79	-0.01	0.50	0.08	0.81	0.08	0.63	0.47
321	17	1	8.15	0.10	0.09	0.07	0.87	0.00	0.50	0.08	0.81	0.09	0.63	0.47
322	17	2	8.15	0.10	0.09	0.07	0.88	0.00	0.50	0.08	0.81	0.09	0.63	0.47
323	17	3	8.15	0.10	0.09	0.07	0.88	0.00	0.50	0.08	0.81	0.09	0.63	0.47
324	17	4	8.15	0.10	0.09	0.07	0.88	0.00	0.50	0.08	0.81	0.09	0.63	0.47
325	17	5	8.16	0.10	0.09	0.07	0.88	0.00	0.50	0.08	0.81	0.09	0.63	0.47
326	17	6	8.16	0.10	0.09	0.07	0.88	0.00	0.50	0.08	0.81	0.09	0.63	0.47
327	17	7	8.16	0.10	0.09	0.07	0.88	0.00	0.50	0.08	0.81	0.09	0.63	0.47
328	17	8	8.17	0.10	0.09	0.07	0.88	0.00	0.50	0.08	0.81	0.09	0.63	0.47
329	17	9	8.17	0.10	0.09	0.07	0.88	0.00	0.50	0.08	0.81	0.09	0.63	0.47
330	17	10	8.17	0.10	0.09	0.07	0.88	0.00	0.50	0.08	0.81	0.09	0.63	0.47
331	17	11	8.18	0.10	0.09	0.07	0.88	0.00	0.50	0.08	0.81	0.09	0.64	0.47
332	17	12	8.18	0.10	0.09	0.07	0.88	0.00	0.50	0.08	0.81	0.09	0.64	0.47

***** STEADY STATE SIMULATION *****

** DISSOLVED OXYGEN DATA **

ELE ORD	RCH NUM	ELE NUM	TEMP DEG-F	DO SAT MG/L	DO MG/L	DO DEF MG/L	DAM INPUT MG/L	NIT INHIB FACT	COMPONENTS OF DISSOLVED OXYGEN MASS BALANCE (MG/L-DAY) F-FNCTN INPUT	OXYGN REAIR	C-BOD	SOD	NET P-R	NH3-N	NO2-N
1	1	1	88.31	7.42	5.87	1.55	0.00	0.97	219.87	0.33	-0.27	0.00	-0.02	-0.04	0.00
2	1	2	88.31	7.42	5.87	1.55	0.00	0.97	0.15	0.33	-0.27	0.00	-0.02	-0.04	0.00
3	1	3	88.32	7.42	5.87	1.55	0.00	0.97	0.15	0.33	-0.27	0.00	-0.02	-0.04	0.00
4	1	4	88.32	7.42	5.87	1.55	0.00	0.97	0.15	0.33	-0.27	0.00	-0.02	-0.04	0.00
5	1	5	88.33	7.42	5.87	1.55	0.00	0.97	0.15	0.33	-0.27	0.00	-0.02	-0.04	0.00
6	1	6	88.33	7.42	5.87	1.55	0.00	0.97	0.15	0.33	-0.27	0.00	-0.02	-0.04	0.00
7	1	7	88.34	7.42	5.87	1.55	0.00	0.97	0.15	0.33	-0.27	0.00	-0.02	-0.04	0.00
8	1	8	88.34	7.42	5.87	1.55	0.00	0.97	0.15	0.33	-0.27	0.00	-0.02	-0.04	0.00
9	1	9	88.35	7.42	5.87	1.55	0.00	0.97	0.15	0.33	-0.27	0.00	-0.02	-0.04	0.00

10	1	10	88.35	7.42	5.87	1.55	0.00	0.97	0.15	0.33	-0.27	0.00	-0.02	-0.04	0.00
11	1	11	88.36	7.42	5.87	1.55	0.00	0.97	0.15	0.33	-0.26	0.00	-0.02	-0.04	0.00
12	1	12	88.37	7.42	5.87	1.55	0.00	0.97	0.15	0.33	-0.26	0.00	-0.02	-0.04	0.00
13	1	13	88.37	7.42	5.87	1.55	0.00	0.97	0.15	0.33	-0.26	0.00	-0.02	-0.04	0.00
14	1	14	88.38	7.42	5.87	1.55	0.00	0.97	0.15	0.33	-0.26	0.00	-0.02	-0.04	0.00
15	1	15	88.38	7.41	5.87	1.54	0.00	0.97	0.15	0.33	-0.26	0.00	-0.02	-0.04	0.00
16	1	16	88.39	7.41	5.87	1.54	0.00	0.97	0.15	0.33	-0.26	0.00	-0.02	-0.04	0.00
17	1	17	88.39	7.41	5.87	1.54	0.00	0.97	0.15	0.33	-0.26	0.00	-0.02	-0.04	0.00
18	1	18	88.40	7.41	5.87	1.54	0.00	0.97	0.15	0.33	-0.26	0.00	-0.02	-0.04	0.00
19	1	19	88.40	7.41	5.87	1.54	0.00	0.97	0.15	0.33	-0.26	0.00	-0.02	-0.04	0.00
20	1	20	88.41	7.41	5.87	1.54	0.00	0.97	0.15	0.33	-0.26	0.00	-0.02	-0.04	0.00
21	2	1	88.41	7.41	5.87	1.54	0.00	0.97	0.16	0.35	-0.26	0.00	-0.01	-0.04	0.00
22	2	2	88.42	7.41	5.87	1.54	0.00	0.97	0.16	0.38	-0.26	0.00	-0.01	-0.04	0.00
23	2	3	88.42	7.41	5.87	1.54	0.00	0.97	0.16	0.38	-0.26	0.00	-0.01	-0.04	0.00
24	2	4	88.43	7.41	5.88	1.54	0.00	0.97	0.16	0.38	-0.26	0.00	-0.01	-0.04	0.00
25	2	5	88.43	7.41	5.88	1.53	0.00	0.97	0.16	0.38	-0.26	0.00	-0.01	-0.04	0.00
26	2	6	88.44	7.41	5.88	1.53	0.00	0.97	0.16	0.38	-0.26	0.00	-0.01	-0.04	0.00
27	2	7	88.44	7.41	5.88	1.53	0.00	0.97	0.16	0.38	-0.26	0.00	-0.01	-0.04	0.00
28	2	8	88.37	7.42	5.88	1.53	0.00	0.97	4.16	0.38	-0.26	0.00	-0.01	-0.04	0.00
29	2	9	88.38	7.42	5.88	1.53	0.00	0.97	0.16	0.38	-0.26	0.00	-0.01	-0.04	0.00
30	2	10	88.38	7.41	5.89	1.53	0.00	0.97	0.16	0.38	-0.26	0.00	-0.01	-0.04	0.00
31	2	11	88.41	7.41	5.89	1.53	0.00	0.97	-15.51	0.38	-0.26	0.00	-0.01	-0.04	0.00
32	2	12	89.34	7.35	5.87	1.47	0.00	0.97	15.23	0.37	-0.26	0.00	-0.01	-0.04	0.00
33	2	13	89.34	7.35	5.88	1.47	0.00	0.97	0.16	0.37	-0.26	0.00	-0.01	-0.04	0.00
34	2	14	89.34	7.35	5.88	1.47	0.00	0.97	0.16	0.37	-0.26	0.00	-0.01	-0.04	0.00
35	2	15	89.34	7.35	5.88	1.47	0.00	0.97	0.16	0.37	-0.26	0.00	-0.01	-0.04	0.00
36	2	16	89.34	7.35	5.88	1.47	0.00	0.97	0.16	0.37	-0.26	0.00	-0.01	-0.04	0.00
37	2	17	89.34	7.35	5.88	1.47	0.00	0.97	0.19	0.37	-0.26	0.00	-0.01	-0.04	0.00
38	2	18	89.34	7.35	5.88	1.47	0.00	0.97	0.16	0.37	-0.26	0.00	-0.01	-0.04	0.00
39	2	19	89.34	7.35	5.88	1.47	0.00	0.97	0.16	0.37	-0.26	0.00	-0.01	-0.04	0.00
40	2	20	89.34	7.35	5.88	1.47	0.00	0.97	0.16	0.37	-0.26	0.00	-0.01	-0.04	0.00
41	3	1	89.34	7.35	5.88	1.47	0.00	0.97	0.15	0.40	-0.26	0.00	-0.02	-0.04	0.00
42	3	2	89.34	7.35	5.88	1.46	0.00	0.97	0.15	0.44	-0.26	0.00	-0.02	-0.04	0.00

***** STEADY STATE SIMULATION *****

** DISSOLVED OXYGEN DATA **

									COMPONENTS OF DISSOLVED OXYGEN MASS BALANCE (MG/L-DAY)						
ELE ORD	RCH NUM	ELE NUM	TEMP DEG-F	DO SAT MG/L	DO MG/L	DO DEF MG/L	DAM INPUT MG/L	NIT INHIB FACT	F-FNCTN INPUT	OXYGN REAIR	C-BOD	SOD	NET P-R	NH3-N	NO2-N
43	3	3	89.34	7.35	5.89	1.46	0.00	0.97	0.15	0.44	-0.26	0.00	-0.02	-0.04	0.00
44	3	4	89.35	7.35	5.89	1.46	0.00	0.97	0.15	0.44	-0.26	0.00	-0.02	-0.04	-0.01
45	3	5	89.35	7.35	5.89	1.46	0.00	0.97	0.17	0.43	-0.26	0.00	-0.01	-0.04	-0.01
46	3	6	89.35	7.35	5.89	1.46	0.00	0.97	0.15	0.43	-0.26	0.00	-0.01	-0.04	-0.01

47	3	7	89.35	7.35	5.89	1.45	0.00	0.97	0.15	0.43	-0.26	0.00	-0.01	-0.04	-0.01
48	3	8	89.35	7.35	5.90	1.45	0.00	0.97	0.15	0.43	-0.26	0.00	-0.01	-0.04	-0.01
49	3	9	89.35	7.35	5.90	1.45	0.00	0.97	0.15	0.43	-0.26	0.00	-0.01	-0.04	-0.01
50	3	10	89.35	7.35	5.90	1.45	0.00	0.97	0.15	0.43	-0.26	0.00	-0.01	-0.04	-0.01
51	3	11	89.35	7.35	5.90	1.45	0.00	0.97	0.15	0.43	-0.26	0.00	-0.01	-0.04	-0.01
52	3	12	89.35	7.35	5.90	1.45	0.00	0.97	0.15	0.43	-0.26	0.00	-0.01	-0.04	-0.01
53	3	13	89.35	7.35	5.90	1.44	0.00	0.97	0.15	0.43	-0.26	0.00	-0.01	-0.04	-0.01
54	3	14	89.35	7.35	5.91	1.44	0.00	0.97	0.15	0.43	-0.26	0.00	-0.01	-0.04	-0.01
55	3	15	89.35	7.35	5.91	1.44	0.00	0.97	0.15	0.43	-0.26	0.00	-0.01	-0.04	-0.01
56	3	16	89.35	7.35	5.91	1.44	0.00	0.97	0.15	0.43	-0.26	0.00	-0.01	-0.04	-0.01
57	3	17	89.35	7.35	5.91	1.44	0.00	0.97	0.15	0.43	-0.26	0.00	-0.01	-0.04	-0.01
58	3	18	89.36	7.35	5.91	1.43	0.00	0.97	0.15	0.43	-0.26	0.00	-0.01	-0.04	-0.01
59	3	19	89.36	7.35	5.91	1.43	0.00	0.97	0.15	0.43	-0.26	0.00	-0.01	-0.04	-0.01
60	3	20	89.36	7.35	5.92	1.43	0.00	0.97	0.15	0.43	-0.26	0.00	-0.01	-0.04	-0.01
61	4	1	89.36	7.35	5.91	1.43	0.00	0.97	0.10	0.34	-0.26	0.00	-0.02	-0.04	-0.01
62	4	2	89.36	7.35	5.91	1.44	0.00	0.97	0.10	0.25	-0.26	0.00	-0.02	-0.04	-0.01
63	4	3	89.36	7.35	5.91	1.44	0.00	0.97	0.10	0.25	-0.26	0.00	-0.02	-0.04	-0.01
64	4	4	89.36	7.35	5.91	1.44	0.00	0.97	0.10	0.25	-0.26	0.00	-0.02	-0.04	-0.01
65	4	5	89.36	7.35	5.90	1.44	0.00	0.97	0.10	0.25	-0.27	0.00	-0.02	-0.04	-0.01
66	4	6	89.36	7.35	5.90	1.45	0.00	0.97	0.10	0.26	-0.27	0.00	-0.02	-0.04	-0.01
67	4	7	89.36	7.35	5.90	1.45	0.00	0.97	0.10	0.26	-0.27	0.00	-0.02	-0.04	-0.01
68	4	8	89.36	7.35	5.89	1.45	0.00	0.97	0.10	0.26	-0.27	0.00	-0.02	-0.04	-0.01
69	4	9	89.36	7.35	5.89	1.46	0.00	0.97	0.10	0.26	-0.27	0.00	-0.02	-0.04	-0.01
70	4	10	89.36	7.35	5.89	1.46	0.00	0.97	0.10	0.26	-0.27	0.00	-0.02	-0.04	-0.01
71	4	11	89.37	7.35	5.88	1.46	0.00	0.97	0.10	0.26	-0.27	0.00	-0.02	-0.04	-0.01
72	4	12	89.37	7.35	5.88	1.47	0.00	0.97	0.10	0.26	-0.27	0.00	-0.02	-0.04	-0.01
73	4	13	89.37	7.35	5.88	1.47	0.00	0.97	0.10	0.26	-0.27	0.00	-0.02	-0.04	-0.01
74	4	14	89.37	7.35	5.87	1.47	0.00	0.97	0.10	0.26	-0.27	0.00	-0.02	-0.04	-0.01
75	4	15	89.37	7.35	5.87	1.48	0.00	0.97	0.10	0.26	-0.27	0.00	-0.02	-0.04	-0.01
76	4	16	89.37	7.35	5.87	1.48	0.00	0.97	0.10	0.26	-0.27	0.00	-0.02	-0.04	-0.01
77	4	17	89.37	7.35	5.86	1.48	0.00	0.97	0.10	0.26	-0.27	0.00	-0.02	-0.04	-0.01
78	4	18	89.37	7.35	5.86	1.49	0.00	0.97	0.10	0.26	-0.27	0.00	-0.02	-0.04	-0.01
79	4	19	89.37	7.35	5.86	1.49	0.00	0.97	0.10	0.26	-0.28	0.00	-0.02	-0.04	-0.01
80	4	20	89.37	7.35	5.85	1.49	0.00	0.97	0.10	0.26	-0.28	0.00	-0.02	-0.04	-0.01
81	5	1	89.37	7.35	5.85	1.50	0.00	0.97	0.09	0.24	-0.28	0.00	-0.03	-0.04	-0.01
82	5	2	89.37	7.35	5.84	1.50	0.00	0.97	0.09	0.21	-0.28	0.00	-0.03	-0.04	-0.01
83	5	3	89.37	7.35	5.84	1.51	0.00	0.97	0.09	0.21	-0.28	0.00	-0.03	-0.04	-0.01
84	5	4	89.38	7.35	5.83	1.51	0.00	0.97	0.09	0.21	-0.28	0.00	-0.03	-0.04	-0.01

STREAM QUALITY SIMULATION — OUTPUT PAGE NUMBER 35
QUAL-2E STREAM QUALITY ROUTING MODEL — Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** DISSOLVED OXYGEN DATA **

ELE ORD	RCH NUM	ELE NUM	TEMP DEG-F	DO SAT MG/L	DO MG/L	DO DEF MG/L	DAM INPUT MG/L	NIT INHIB FACT	F-FNCTN INPUT	OXYGN REAIR	C-BOD	SOD	NET P-R	NH3-N	NO2-N
									COMPONENTS OF DISSOLVED OXYGEN MASS BALANCE (MG/L-DAY)						

85	5	5	89.38	7.35	5.83	1.52	0.00	0.97	0.09	0.22	-0.28	0.00	-0.03	-0.04	-0.01
86	5	6	89.38	7.35	5.82	1.53	0.00	0.97	0.09	0.22	-0.28	0.00	-0.03	-0.04	-0.01
87	5	7	89.38	7.35	5.81	1.53	0.00	0.97	0.09	0.22	-0.28	0.00	-0.03	-0.04	-0.01
88	5	8	89.38	7.35	5.81	1.54	0.00	0.97	0.09	0.22	-0.28	0.00	-0.02	-0.04	-0.01
89	5	9	89.38	7.35	5.80	1.54	0.00	0.97	0.09	0.22	-0.28	0.00	-0.02	-0.04	-0.01
90	5	10	89.38	7.35	5.80	1.55	0.00	0.97	0.09	0.22	-0.28	0.00	-0.02	-0.04	-0.01
91	5	11	89.38	7.35	5.79	1.55	0.00	0.97	0.09	0.22	-0.28	0.00	-0.02	-0.04	-0.01
92	5	12	89.38	7.35	5.79	1.56	0.00	0.97	0.09	0.22	-0.28	0.00	-0.02	-0.04	-0.01
93	5	13	89.38	7.35	5.78	1.57	0.00	0.97	0.09	0.22	-0.29	0.00	-0.02	-0.04	-0.01
94	5	14	89.38	7.35	5.77	1.57	0.00	0.97	0.09	0.22	-0.29	0.00	-0.02	-0.04	-0.01
95	5	15	89.38	7.35	5.77	1.58	0.00	0.97	0.09	0.22	-0.29	0.00	-0.02	-0.04	-0.01
96	5	16	89.38	7.35	5.76	1.58	0.00	0.97	0.09	0.22	-0.29	0.00	-0.02	-0.04	-0.01
97	5	17	89.38	7.35	5.76	1.59	0.00	0.97	0.09	0.23	-0.29	0.00	-0.02	-0.04	-0.01
98	5	18	89.39	7.35	5.75	1.59	0.00	0.97	0.09	0.23	-0.29	0.00	-0.02	-0.04	-0.01
99	5	19	89.39	7.34	5.75	1.60	0.00	0.97	0.09	0.23	-0.29	0.00	-0.02	-0.04	-0.01
100	5	20	89.39	7.34	5.74	1.60	0.00	0.97	0.09	0.23	-0.29	0.00	-0.02	-0.04	-0.01
101	6	1	89.39	7.35	5.73	1.61	0.00	0.97	0.08	0.23	-0.29	0.00	-0.02	-0.04	-0.01
102	6	2	89.39	7.34	5.73	1.62	0.00	0.97	0.08	0.23	-0.29	0.00	-0.02	-0.04	-0.01
103	6	3	89.39	7.35	5.72	1.62	0.00	0.97	0.08	0.23	-0.29	0.00	-0.02	-0.04	-0.01
104	6	4	89.39	7.34	5.72	1.63	0.00	0.97	0.08	0.23	-0.29	0.00	-0.02	-0.04	-0.01
105	6	5	89.39	7.34	5.71	1.63	0.00	0.97	0.08	0.23	-0.29	0.00	-0.02	-0.04	-0.01
106	6	6	89.39	7.35	5.70	1.64	0.00	0.97	0.08	0.23	-0.29	0.00	-0.02	-0.04	-0.01
107	6	7	89.39	7.34	5.70	1.65	0.00	0.97	0.08	0.23	-0.29	0.00	-0.02	-0.04	-0.01
108	6	8	89.39	7.34	5.69	1.65	0.00	0.97	0.08	0.23	-0.29	0.00	-0.02	-0.04	-0.01
109	6	9	89.39	7.34	5.69	1.66	0.00	0.97	0.08	0.24	-0.29	0.00	-0.02	-0.04	-0.01
110	6	10	89.39	7.34	5.68	1.66	0.00	0.97	0.08	0.24	-0.29	0.00	-0.02	-0.04	-0.01
111	6	11	89.39	7.34	5.68	1.67	0.00	0.97	0.08	0.24	-0.29	0.00	-0.02	-0.04	-0.01
112	6	12	89.39	7.34	5.67	1.68	0.00	0.97	0.08	0.24	-0.29	0.00	-0.02	-0.04	-0.01
113	6	13	89.40	7.34	5.66	1.68	0.00	0.97	0.08	0.24	-0.29	0.00	-0.02	-0.04	-0.01
114	6	14	89.40	7.34	5.66	1.69	0.00	0.97	0.08	0.24	-0.30	0.00	-0.02	-0.04	-0.01
115	6	15	89.40	7.34	5.65	1.69	0.00	0.97	0.08	0.24	-0.30	0.00	-0.02	-0.04	-0.01
116	6	16	89.40	7.34	5.65	1.70	0.00	0.97	0.14	0.24	-0.30	0.00	-0.02	-0.04	-0.01
117	6	17	89.40	7.34	5.64	1.70	0.00	0.97	0.08	0.24	-0.30	0.00	-0.02	-0.04	-0.01
118	6	18	89.40	7.34	5.64	1.71	0.00	0.97	0.08	0.24	-0.30	0.00	-0.02	-0.04	-0.01
119	6	19	89.40	7.34	5.63	1.71	0.00	0.97	0.08	0.24	-0.30	0.00	-0.02	-0.04	-0.01
120	6	20	89.40	7.34	5.62	1.72	0.00	0.97	0.08	0.24	-0.30	0.00	-0.02	-0.04	-0.01
121	7	1	89.40	7.34	5.62	1.73	0.00	0.97	0.07	0.25	-0.30	-0.03	-0.02	-0.04	-0.01
122	7	2	89.40	7.34	5.61	1.74	0.00	0.97	0.07	0.25	-0.30	-0.03	-0.02	-0.04	-0.01
123	7	3	89.40	7.34	5.60	1.74	0.00	0.97	0.07	0.25	-0.30	-0.03	-0.02	-0.04	-0.01
124	7	4	89.41	7.34	5.59	1.75	0.00	0.97	-4.17	0.25	-0.30	-0.03	-0.02	-0.04	-0.01
125	7	5	89.75	7.32	5.57	1.75	0.00	0.96	3.95	0.25	-0.30	-0.03	-0.02	-0.04	-0.01
126	7	6	89.75	7.32	5.56	1.76	0.00	0.96	0.07	0.26	-0.30	-0.03	-0.02	-0.04	-0.01

***** STEADY STATE SIMULATION *****

** DISSOLVED OXYGEN DATA **

									COMPONENTS OF DISSOLVED OXYGEN MASS BALANCE (MG/L-DAY)						
ELE ORD	RCH NUM	ELE NUM	TEMP DEG-F	DO SAT MG/L	DO MG/L	DO DEF MG/L	DAM INPUT MG/L	NIT INHIB FACT	F-FNCTN INPUT	OXYGN REAIR	C-BOD	SOD	NET P-R	NH3-N	NO2-N
127	7	7	89.75	7.32	5.55	1.77	0.00	0.96	0.07	0.26	-0.30	-0.03	-0.02	-0.04	-0.01
128	7	8	89.75	7.32	5.55	1.77	0.00	0.96	0.07	0.26	-0.30	-0.03	-0.02	-0.04	-0.01
129	7	9	89.75	7.32	5.54	1.78	0.00	0.96	0.07	0.26	-0.30	-0.03	-0.02	-0.04	-0.01
130	7	10	89.75	7.32	5.53	1.79	0.00	0.96	0.07	0.26	-0.30	-0.03	-0.02	-0.04	-0.01
131	7	11	89.75	7.32	5.53	1.80	0.00	0.96	0.07	0.26	-0.30	-0.03	-0.02	-0.04	-0.01
132	7	12	89.74	7.32	5.52	1.80	0.00	0.96	0.07	0.26	-0.30	-0.03	-0.02	-0.04	-0.01
133	7	13	89.74	7.32	5.51	1.81	0.00	0.96	0.07	0.26	-0.30	-0.03	-0.02	-0.04	-0.01
134	7	14	89.74	7.32	5.50	1.82	0.00	0.96	0.07	0.26	-0.30	-0.03	-0.02	-0.04	-0.01
135	7	15	89.74	7.32	5.50	1.82	0.00	0.96	0.07	0.26	-0.30	-0.03	-0.02	-0.04	-0.01
136	7	16	89.74	7.32	5.49	1.83	0.00	0.96	0.07	0.27	-0.30	-0.03	-0.02	-0.04	-0.01
137	7	17	89.74	7.32	5.48	1.84	0.00	0.96	0.07	0.27	-0.30	-0.03	-0.02	-0.04	-0.01
138	7	18	89.74	7.32	5.48	1.84	0.00	0.96	0.07	0.27	-0.30	-0.03	-0.02	-0.04	-0.01
139	7	19	89.73	7.32	5.47	1.85	0.00	0.96	0.07	0.27	-0.30	-0.03	-0.02	-0.04	-0.01
140	7	20	89.73	7.32	5.46	1.86	0.00	0.96	0.07	0.27	-0.30	-0.03	-0.02	-0.04	-0.01
141	8	1	89.73	7.32	5.46	1.86	0.00	0.96	0.07	0.27	-0.30	-0.03	-0.02	-0.04	-0.01
142	8	2	89.73	7.32	5.45	1.87	0.00	0.96	0.07	0.27	-0.30	-0.03	-0.02	-0.04	-0.01
143	8	3	89.73	7.32	5.44	1.88	0.00	0.96	0.07	0.28	-0.30	-0.03	-0.02	-0.04	-0.01
144	8	4	89.73	7.32	5.44	1.88	0.00	0.96	0.07	0.28	-0.30	-0.03	-0.02	-0.04	-0.01
145	8	5	89.73	7.32	5.43	1.89	0.00	0.96	0.07	0.28	-0.30	-0.03	-0.02	-0.04	-0.01
146	8	6	89.73	7.32	5.42	1.90	0.00	0.96	0.07	0.28	-0.30	-0.03	-0.02	-0.04	-0.01
147	8	7	89.72	7.32	5.42	1.90	0.00	0.96	0.07	0.28	-0.30	-0.03	-0.02	-0.04	-0.01
148	8	8	89.72	7.32	5.41	1.91	0.00	0.96	0.07	0.28	-0.30	-0.03	-0.02	-0.04	-0.01
149	8	9	89.72	7.32	5.40	1.92	0.00	0.96	0.07	0.28	-0.30	-0.03	-0.02	-0.04	-0.01
150	8	10	89.72	7.32	5.40	1.92	0.00	0.96	0.07	0.28	-0.30	-0.03	-0.02	-0.04	-0.01
151	8	11	89.72	7.32	5.39	1.93	0.00	0.96	0.07	0.28	-0.30	-0.03	-0.02	-0.04	-0.01
152	8	12	89.72	7.32	5.39	1.94	0.00	0.96	0.07	0.28	-0.30	-0.03	-0.02	-0.04	-0.01
153	8	13	89.72	7.32	5.38	1.94	0.00	0.96	0.07	0.28	-0.30	-0.03	-0.02	-0.04	-0.01
154	8	14	89.72	7.32	5.37	1.95	0.00	0.96	0.07	0.29	-0.30	-0.03	-0.02	-0.04	-0.01
155	8	15	89.71	7.32	5.37	1.95	0.00	0.96	0.07	0.29	-0.30	-0.03	-0.02	-0.04	-0.01
156	8	16	89.71	7.32	5.36	1.96	0.00	0.96	0.07	0.29	-0.30	-0.03	-0.02	-0.04	-0.01
157	8	17	89.71	7.32	5.36	1.97	0.00	0.96	0.07	0.29	-0.30	-0.03	-0.02	-0.04	-0.01
158	8	18	89.68	7.32	5.33	1.99	0.00	0.96	0.26	0.29	-0.32	-0.03	-0.02	-0.05	-0.01
159	8	19	89.68	7.32	5.32	2.00	0.00	0.96	0.07	0.29	-0.32	-0.03	-0.02	-0.05	-0.01
160	8	20	89.68	7.32	5.32	2.01	0.00	0.96	0.07	0.29	-0.32	-0.03	-0.02	-0.05	-0.01
161	9	1	89.68	7.33	5.31	2.02	0.00	0.96	0.07	0.30	-0.32	-0.03	-0.02	-0.05	-0.01
162	9	2	89.68	7.33	5.30	2.02	0.00	0.96	0.07	0.30	-0.32	-0.03	-0.02	-0.05	-0.01
163	9	3	89.68	7.33	5.30	2.03	0.00	0.96	0.07	0.30	-0.32	-0.03	-0.02	-0.05	-0.01
164	9	4	89.67	7.33	5.28	2.04	0.00	0.96	0.19	0.30	-0.32	-0.03	-0.02	-0.05	-0.01
165	9	5	89.67	7.33	5.28	2.05	0.00	0.96	0.07	0.30	-0.32	-0.03	-0.02	-0.05	-0.01
166	9	6	89.67	7.33	5.27	2.06	0.00	0.96	0.07	0.30	-0.32	-0.03	-0.02	-0.05	-0.01
167	9	7	89.66	7.33	5.26	2.06	0.00	0.96	0.07	0.30	-0.32	-0.03	-0.01	-0.05	-0.01
168	9	8	89.66	7.33	5.26	2.07	0.00	0.96	0.07	0.31	-0.32	-0.03	-0.01	-0.05	-0.01

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 37
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** DISSOLVED OXYGEN DATA **

ELE ORD	RCH NUM	ELE NUM	TEMP DEG-F	DO SAT MG/L	DO MG/L	DO DEF MG/L	DAM INPUT MG/L	NIT INHIB FACT	COMPONENTS OF DISSOLVED OXYGEN MASS BALANCE (MG/L-DAY) F-FNCTN INPUT	OXYGN REAIR	C-BOD	SOD	NET P-R	NH3-N	NO2-N
169	9	9	89.66	7.33	5.25	2.07	0.00	0.96	0.07	0.31	-0.32	-0.03	-0.01	-0.05	-0.01
170	9	10	89.66	7.33	5.25	2.08	0.00	0.96	0.07	0.31	-0.32	-0.03	-0.01	-0.05	-0.01
171	9	11	89.66	7.33	5.24	2.09	0.00	0.96	0.07	0.31	-0.32	-0.03	-0.01	-0.05	-0.01
172	9	12	89.66	7.33	5.23	2.09	0.00	0.96	0.07	0.31	-0.32	-0.03	-0.01	-0.05	-0.01
173	9	13	89.66	7.33	5.23	2.10	0.00	0.96	0.07	0.31	-0.32	-0.03	-0.01	-0.05	-0.01
174	9	14	89.66	7.33	5.22	2.10	0.00	0.96	0.07	0.31	-0.32	-0.03	-0.01	-0.05	-0.01
175	9	15	89.66	7.33	5.22	2.11	0.00	0.96	0.07	0.31	-0.32	-0.03	-0.01	-0.05	-0.01
176	9	16	89.66	7.33	5.21	2.11	0.00	0.96	0.07	0.31	-0.32	-0.03	-0.01	-0.05	-0.01
177	9	17	89.66	7.33	5.21	2.12	0.00	0.96	0.07	0.31	-0.32	-0.03	-0.01	-0.05	-0.01
178	9	18	89.66	7.33	5.20	2.13	0.00	0.96	0.07	0.31	-0.32	-0.03	-0.01	-0.05	-0.01
179	9	19	89.65	7.33	5.20	2.13	0.00	0.96	0.07	0.31	-0.32	-0.03	-0.01	-0.05	-0.01
180	9	20	89.65	7.33	5.19	2.14	0.00	0.96	0.07	0.32	-0.32	-0.03	-0.01	-0.05	-0.01
181	10	1	89.65	7.33	5.19	2.14	0.00	0.96	0.08	0.32	-0.32	-0.04	-0.01	-0.05	-0.01
182	10	2	89.65	7.33	5.18	2.15	0.00	0.96	0.08	0.32	-0.32	-0.04	-0.01	-0.05	-0.01
183	10	3	89.65	7.33	5.18	2.15	0.00	0.96	0.08	0.32	-0.32	-0.04	-0.01	-0.05	-0.01
184	10	4	89.65	7.33	5.17	2.16	0.00	0.96	0.08	0.32	-0.32	-0.04	-0.01	-0.05	-0.01
185	10	5	89.65	7.33	5.17	2.16	0.00	0.95	0.08	0.32	-0.32	-0.04	-0.01	-0.05	-0.01
186	10	6	89.65	7.33	5.16	2.16	0.00	0.95	0.08	0.33	-0.32	-0.04	-0.01	-0.05	-0.01
187	10	7	89.65	7.33	5.16	2.17	0.00	0.95	0.08	0.33	-0.32	-0.04	-0.01	-0.05	-0.01
188	10	8	89.62	7.33	5.15	2.18	0.00	0.95	0.51	0.33	-0.32	-0.04	-0.01	-0.05	-0.01
189	10	9	89.62	7.33	5.15	2.18	0.00	0.95	0.08	0.33	-0.32	-0.04	-0.01	-0.05	-0.01
190	10	10	89.62	7.33	5.14	2.19	0.00	0.95	0.08	0.33	-0.32	-0.04	-0.01	-0.05	-0.01
191	10	11	89.62	7.33	5.14	2.19	0.00	0.95	0.08	0.33	-0.32	-0.04	-0.01	-0.05	-0.01
192	10	12	89.62	7.33	5.13	2.20	0.00	0.95	0.08	0.33	-0.32	-0.04	-0.01	-0.05	-0.01
193	10	13	89.62	7.33	5.13	2.20	0.00	0.95	0.08	0.33	-0.32	-0.04	-0.01	-0.05	-0.01
194	10	14	89.62	7.33	5.13	2.20	0.00	0.95	0.08	0.33	-0.32	-0.04	-0.01	-0.05	-0.01
195	10	15	89.62	7.33	5.12	2.21	0.00	0.95	0.08	0.33	-0.32	-0.04	-0.01	-0.05	-0.01
196	10	16	89.62	7.33	5.12	2.21	0.00	0.95	0.08	0.33	-0.32	-0.04	-0.01	-0.05	-0.01
197	10	17	89.62	7.33	5.11	2.22	0.00	0.95	0.08	0.33	-0.32	-0.04	-0.01	-0.05	-0.01
198	10	18	89.62	7.33	5.11	2.22	0.00	0.95	0.08	0.33	-0.32	-0.04	-0.01	-0.05	-0.01
199	10	19	89.62	7.33	5.11	2.22	0.00	0.95	0.08	0.33	-0.32	-0.04	-0.01	-0.05	-0.01
200	10	20	89.62	7.33	5.10	2.23	0.00	0.95	0.08	0.33	-0.32	-0.04	-0.01	-0.05	-0.01
201	11	1	89.61	7.33	5.10	2.23	0.00	0.95	0.04	0.34	-0.32	-0.04	-0.01	-0.05	-0.01
202	11	2	89.61	7.33	5.09	2.24	0.00	0.95	0.04	0.34	-0.32	-0.04	-0.01	-0.05	-0.01
203	11	3	89.61	7.33	5.09	2.24	0.00	0.95	0.04	0.34	-0.32	-0.04	-0.01	-0.05	-0.01
204	11	4	89.61	7.33	5.09	2.24	0.00	0.95	0.04	0.34	-0.32	-0.04	-0.01	-0.05	-0.01
205	11	5	89.61	7.33	5.08	2.25	0.00	0.95	0.04	0.34	-0.32	-0.04	-0.01	-0.05	-0.01
206	11	6	89.61	7.33	5.08	2.25	0.00	0.95	0.04	0.34	-0.32	-0.04	-0.01	-0.05	-0.01

207	11	7	89.61	7.33	5.08	2.25	0.00	0.95	0.04	0.34	-0.32	-0.04	-0.01	-0.05	-0.01
208	11	8	89.61	7.33	5.07	2.26	0.00	0.95	0.04	0.34	-0.32	-0.04	-0.01	-0.05	-0.01
209	11	9	89.61	7.33	5.07	2.26	0.00	0.95	0.04	0.35	-0.32	-0.04	-0.01	-0.05	-0.01
210	11	10	89.61	7.33	5.07	2.26	0.00	0.95	0.04	0.35	-0.32	-0.04	-0.01	-0.05	-0.01

***** STEADY STATE SIMULATION *****

** DISSOLVED OXYGEN DATA **

									COMPONENTS OF DISSOLVED OXYGEN MASS BALANCE (MG/L-DAY)						
ELE ORD	RCH NUM	ELE NUM	TEMP DEG-F	DO SAT MG/L	DO MG/L	DO DEF MG/L	DAM INPUT MG/L	NIT INHIB FACT	F-FNCTN INPUT	OXYGN REAIR	C-BOD	SOD	NET P-R	NH3-N	NO2-N
211	11	11	89.61	7.33	5.06	2.27	0.00	0.95	0.04	0.35	-0.32	-0.04	-0.01	-0.05	-0.01
212	11	12	89.61	7.33	5.06	2.27	0.00	0.95	0.04	0.35	-0.32	-0.04	-0.01	-0.05	-0.01
213	11	13	89.61	7.33	5.06	2.27	0.00	0.95	0.04	0.35	-0.32	-0.04	-0.01	-0.05	-0.01
214	11	14	89.61	7.33	5.06	2.27	0.00	0.95	0.04	0.35	-0.32	-0.04	-0.01	-0.05	-0.01
215	11	15	89.61	7.33	5.05	2.28	0.00	0.95	0.04	0.35	-0.32	-0.04	-0.01	-0.05	-0.01
216	11	16	89.61	7.33	5.05	2.28	0.00	0.95	0.04	0.35	-0.32	-0.04	-0.01	-0.05	-0.01
217	11	17	89.61	7.33	5.05	2.28	0.00	0.95	0.04	0.35	-0.32	-0.04	-0.01	-0.05	-0.01
218	11	18	89.61	7.33	5.04	2.29	0.00	0.95	0.04	0.35	-0.32	-0.04	-0.01	-0.05	-0.01
219	11	19	89.61	7.33	5.04	2.29	0.00	0.95	0.04	0.35	-0.32	-0.04	-0.01	-0.05	-0.01
220	11	20	89.61	7.33	5.04	2.29	0.00	0.95	0.04	0.35	-0.32	-0.04	-0.01	-0.05	-0.01
221	12	1	89.61	7.33	5.03	2.30	0.00	0.95	0.03	0.31	-0.32	-0.03	-0.02	-0.05	-0.01
222	12	2	89.61	7.33	5.02	2.31	0.00	0.95	0.03	0.28	-0.32	-0.03	-0.02	-0.05	-0.01
223	12	3	89.61	7.33	5.02	2.31	0.00	0.95	0.03	0.28	-0.32	-0.03	-0.02	-0.05	-0.01
224	12	4	89.61	7.33	5.01	2.32	0.00	0.95	0.03	0.28	-0.32	-0.03	-0.02	-0.05	-0.01
225	12	5	89.61	7.33	5.00	2.33	0.00	0.95	0.03	0.28	-0.32	-0.03	-0.02	-0.05	-0.01
226	12	6	89.61	7.33	5.00	2.33	0.00	0.95	0.03	0.28	-0.32	-0.03	-0.02	-0.05	-0.01
227	12	7	89.61	7.33	4.99	2.34	0.00	0.95	0.03	0.28	-0.32	-0.03	-0.02	-0.05	-0.01
228	12	8	89.60	7.33	4.99	2.35	0.00	0.95	0.03	0.28	-0.32	-0.03	-0.02	-0.05	-0.01
229	12	9	89.60	7.33	4.98	2.35	0.00	0.95	0.03	0.28	-0.32	-0.03	-0.02	-0.05	-0.01
230	12	10	89.60	7.33	4.97	2.36	0.00	0.95	0.03	0.28	-0.32	-0.03	-0.02	-0.05	-0.01
231	12	11	89.60	7.33	4.97	2.36	0.00	0.95	0.03	0.28	-0.32	-0.03	-0.02	-0.05	-0.01
232	12	12	89.60	7.33	4.96	2.37	0.00	0.95	0.03	0.28	-0.32	-0.03	-0.02	-0.05	-0.01
233	12	13	89.60	7.33	4.95	2.38	0.00	0.95	0.03	0.28	-0.32	-0.03	-0.02	-0.05	-0.01
234	12	14	89.60	7.33	4.95	2.38	0.00	0.95	0.03	0.29	-0.32	-0.03	-0.02	-0.05	-0.01
235	12	15	89.60	7.33	4.94	2.39	0.00	0.95	0.03	0.29	-0.32	-0.03	-0.02	-0.05	-0.01
236	12	16	89.60	7.33	4.93	2.40	0.00	0.95	0.03	0.29	-0.32	-0.03	-0.02	-0.05	-0.01
237	12	17	89.60	7.33	4.93	2.40	0.00	0.95	0.03	0.29	-0.32	-0.03	-0.02	-0.05	-0.01
238	12	18	89.60	7.33	4.92	2.41	0.00	0.95	0.03	0.29	-0.32	-0.03	-0.02	-0.05	-0.01
239	12	19	89.60	7.33	4.92	2.41	0.00	0.95	0.03	0.29	-0.32	-0.03	-0.02	-0.05	-0.01
240	12	20	89.60	7.33	4.91	2.42	0.00	0.95	0.03	0.29	-0.32	-0.03	-0.02	-0.05	-0.01
241	13	1	89.60	7.33	4.90	2.43	0.00	0.95	0.03	0.27	-0.32	-0.02	-0.02	-0.05	-0.01
242	13	2	89.60	7.33	4.89	2.44	0.00	0.95	0.03	0.24	-0.32	-0.02	-0.02	-0.05	-0.01
243	13	3	89.60	7.33	4.89	2.44	0.00	0.95	0.03	0.24	-0.32	-0.02	-0.02	-0.05	-0.01

244	13	4	89.60	7.33	4.88	2.45	0.00	0.95	0.03	0.24	-0.32	-0.02	-0.02	-0.05	-0.01
245	13	5	89.60	7.33	4.87	2.46	0.00	0.95	0.03	0.25	-0.32	-0.02	-0.02	-0.05	-0.01
246	13	6	89.60	7.33	4.86	2.47	0.00	0.95	0.03	0.25	-0.32	-0.02	-0.02	-0.05	-0.01
247	13	7	89.60	7.33	4.85	2.48	0.00	0.95	0.03	0.25	-0.32	-0.02	-0.02	-0.05	-0.01
248	13	8	89.60	7.33	4.84	2.49	0.00	0.95	0.03	0.25	-0.32	-0.02	-0.02	-0.05	-0.01
249	13	9	89.60	7.33	4.83	2.50	0.00	0.94	0.03	0.25	-0.32	-0.02	-0.02	-0.05	-0.01
250	13	10	89.60	7.33	4.83	2.51	0.00	0.94	0.03	0.25	-0.32	-0.02	-0.02	-0.04	-0.01
251	13	11	89.60	7.33	4.82	2.51	0.00	0.94	0.03	0.25	-0.32	-0.02	-0.02	-0.04	-0.01
252	13	12	89.60	7.33	4.81	2.52	0.00	0.94	0.03	0.25	-0.32	-0.02	-0.02	-0.04	-0.01

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 39
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** DISSOLVED OXYGEN DATA **

ELE ORD	RCH NUM	ELE NUM	TEMP DEG-F	DO SAT MG/L	DO MG/L	DO DEF MG/L	DAM INPUT MG/L	NIT INHIB FACT	COMPONENTS OF DISSOLVED OXYGEN MASS BALANCE (MG/L-DAY) F-FNCTN INPUT	OXYGN REAIR	C-BOD	SOD	NET P-R	NH3-N	NO2-N
253	13	13	89.60	7.33	4.80	2.53	0.00	0.94	0.03	0.25	-0.32	-0.02	-0.02	-0.04	-0.01
254	13	14	89.60	7.33	4.79	2.54	0.00	0.94	0.03	0.25	-0.32	-0.02	-0.02	-0.04	-0.01
255	13	15	89.60	7.33	4.78	2.55	0.00	0.94	0.03	0.25	-0.31	-0.02	-0.02	-0.04	-0.01
256	13	16	89.60	7.33	4.78	2.55	0.00	0.94	0.03	0.25	-0.31	-0.02	-0.02	-0.04	-0.01
257	13	17	89.60	7.33	4.77	2.56	0.00	0.94	0.03	0.26	-0.31	-0.02	-0.02	-0.04	-0.01
258	13	18	89.60	7.33	4.76	2.57	0.00	0.94	0.03	0.26	-0.31	-0.02	-0.02	-0.04	-0.01
259	13	19	89.60	7.33	4.75	2.58	0.00	0.94	0.03	0.26	-0.31	-0.02	-0.02	-0.04	-0.01
260	13	20	89.60	7.33	4.74	2.59	0.00	0.94	0.03	0.26	-0.31	-0.02	-0.02	-0.04	-0.01
261	14	1	89.60	7.33	4.74	2.59	0.00	0.94	0.03	0.27	-0.31	-0.03	-0.02	-0.04	-0.01
262	14	2	89.60	7.33	4.73	2.60	0.00	0.94	0.03	0.28	-0.31	-0.03	-0.02	-0.04	-0.01
263	14	3	89.60	7.33	4.72	2.61	0.00	0.94	0.03	0.28	-0.31	-0.03	-0.02	-0.04	-0.01
264	14	4	89.60	7.33	4.72	2.61	0.00	0.94	0.03	0.28	-0.31	-0.03	-0.02	-0.04	-0.01
265	14	5	89.60	7.33	4.71	2.62	0.00	0.94	0.03	0.28	-0.31	-0.03	-0.02	-0.04	-0.01
266	14	6	89.60	7.33	4.70	2.63	0.00	0.94	0.03	0.28	-0.31	-0.03	-0.02	-0.04	-0.01
267	14	7	89.60	7.33	4.70	2.63	0.00	0.94	0.03	0.28	-0.31	-0.03	-0.02	-0.04	-0.01
268	14	8	89.60	7.33	4.69	2.64	0.00	0.94	0.03	0.28	-0.31	-0.03	-0.02	-0.04	-0.01
269	14	9	89.60	7.33	4.69	2.65	0.00	0.94	0.03	0.28	-0.31	-0.03	-0.02	-0.04	-0.01
270	14	10	89.59	7.33	4.68	2.65	0.00	0.94	0.03	0.29	-0.31	-0.03	-0.02	-0.04	-0.01
271	14	11	89.59	7.33	4.67	2.66	0.00	0.94	0.03	0.29	-0.31	-0.03	-0.02	-0.04	-0.01
272	14	12	89.59	7.33	4.67	2.66	0.00	0.94	0.03	0.29	-0.31	-0.03	-0.02	-0.04	-0.01
273	14	13	89.59	7.33	4.66	2.67	0.00	0.94	0.03	0.29	-0.31	-0.03	-0.02	-0.04	-0.01
274	14	14	89.59	7.33	4.65	2.68	0.00	0.94	0.03	0.29	-0.31	-0.03	-0.02	-0.04	-0.01
275	14	15	89.59	7.33	4.65	2.68	0.00	0.94	0.03	0.29	-0.31	-0.03	-0.01	-0.04	-0.01
276	14	16	89.59	7.33	4.64	2.69	0.00	0.94	0.03	0.29	-0.31	-0.03	-0.01	-0.04	-0.01
277	14	17	89.59	7.33	4.64	2.69	0.00	0.94	0.03	0.29	-0.31	-0.03	-0.01	-0.04	-0.01
278	14	18	89.59	7.33	4.63	2.70	0.00	0.94	0.03	0.29	-0.31	-0.03	-0.01	-0.04	-0.01
279	14	19	89.59	7.33	4.63	2.71	0.00	0.94	0.03	0.29	-0.31	-0.03	-0.01	-0.04	-0.01
280	14	20	89.59	7.33	4.62	2.71	0.00	0.94	0.03	0.29	-0.31	-0.03	-0.01	-0.04	-0.01

281	15	1	89.59	7.33	4.61	2.72	0.00	0.94	0.03	0.31	-0.31	-0.03	-0.01	-0.04	-0.01
282	15	2	89.59	7.33	4.61	2.72	0.00	0.94	0.03	0.32	-0.30	-0.03	-0.01	-0.04	-0.01
283	15	3	89.59	7.33	4.61	2.72	0.00	0.94	0.03	0.32	-0.30	-0.03	-0.01	-0.04	-0.01
284	15	4	89.59	7.33	4.60	2.73	0.00	0.94	0.03	0.32	-0.30	-0.03	-0.01	-0.04	-0.01
285	15	5	89.59	7.33	4.60	2.73	0.00	0.94	0.03	0.32	-0.30	-0.03	-0.01	-0.04	-0.01
286	15	6	89.59	7.33	4.59	2.74	0.00	0.94	0.03	0.32	-0.30	-0.03	-0.01	-0.04	-0.01
287	15	7	89.59	7.33	4.59	2.74	0.00	0.94	0.03	0.32	-0.30	-0.03	-0.01	-0.04	-0.01
288	15	8	89.59	7.33	4.59	2.74	0.00	0.94	0.03	0.32	-0.30	-0.03	-0.01	-0.04	-0.01
289	15	9	89.59	7.33	4.58	2.75	0.00	0.94	0.03	0.33	-0.30	-0.03	-0.01	-0.04	-0.01
290	15	10	89.59	7.33	4.58	2.75	0.00	0.94	0.03	0.33	-0.30	-0.03	-0.01	-0.04	-0.01
291	15	11	89.59	7.33	4.58	2.76	0.00	0.94	0.03	0.33	-0.30	-0.03	-0.01	-0.04	-0.01
292	15	12	89.59	7.33	4.57	2.76	0.00	0.94	0.03	0.33	-0.30	-0.03	-0.01	-0.04	-0.01
293	15	13	89.59	7.33	4.57	2.76	0.00	0.94	0.03	0.33	-0.30	-0.03	-0.01	-0.04	-0.01
294	15	14	89.59	7.33	4.57	2.77	0.00	0.94	0.03	0.33	-0.30	-0.03	-0.01	-0.04	-0.01

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 40
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** DISSOLVED OXYGEN DATA **

ELE ORD	RCH NUM	ELE NUM	TEMP DEG-F	DO SAT MG/L	DO MG/L	DO DEF MG/L	DAM INPUT MG/L	NIT INHIB FACT	COMPONENTS OF DISSOLVED OXYGEN MASS BALANCE (MG/L-DAY) F-FNCTN INPUT	OXYGN REAIR	C-BOD	SOD	NET P-R	NH3-N	NO2-N
295	15	15	89.59	7.33	4.56	2.77	0.00	0.94	0.03	0.33	-0.30	-0.03	-0.01	-0.04	-0.01
296	15	16	89.59	7.33	4.56	2.77	0.00	0.94	0.03	0.33	-0.30	-0.03	-0.01	-0.04	-0.01
297	15	17	89.59	7.33	4.56	2.78	0.00	0.93	0.03	0.33	-0.30	-0.03	-0.01	-0.04	-0.01
298	15	18	89.59	7.33	4.55	2.78	0.00	0.93	0.03	0.33	-0.30	-0.03	-0.01	-0.04	-0.01
299	15	19	89.59	7.33	4.55	2.78	0.00	0.93	0.03	0.33	-0.30	-0.03	-0.01	-0.04	-0.01
300	15	20	89.59	7.33	4.55	2.79	0.00	0.93	0.03	0.33	-0.30	-0.03	-0.01	-0.04	-0.01
301	16	1	89.59	7.33	4.54	2.79	0.00	0.93	0.02	0.35	-0.30	-0.03	-0.01	-0.04	-0.01
302	16	2	89.59	7.33	4.54	2.79	0.00	0.93	0.02	0.36	-0.30	-0.03	-0.01	-0.04	-0.01
303	16	3	89.59	7.33	4.54	2.79	0.00	0.93	0.02	0.36	-0.30	-0.03	-0.01	-0.04	-0.01
304	16	4	89.59	7.33	4.54	2.79	0.00	0.93	0.02	0.36	-0.30	-0.03	-0.01	-0.04	-0.01
305	16	5	89.59	7.33	4.54	2.79	0.00	0.93	0.02	0.36	-0.29	-0.03	-0.01	-0.04	-0.01
306	16	6	89.59	7.33	4.54	2.80	0.00	0.93	0.02	0.36	-0.29	-0.03	-0.01	-0.04	-0.01
307	16	7	89.59	7.33	4.53	2.80	0.00	0.93	0.02	0.36	-0.29	-0.03	-0.01	-0.04	-0.01
308	16	8	89.59	7.33	4.53	2.80	0.00	0.93	0.02	0.36	-0.29	-0.03	-0.01	-0.04	-0.01
309	16	9	89.59	7.33	4.53	2.80	0.00	0.93	0.02	0.36	-0.29	-0.03	-0.01	-0.04	-0.01
310	16	10	89.59	7.33	4.53	2.80	0.00	0.93	0.02	0.36	-0.29	-0.03	-0.01	-0.04	-0.01
311	16	11	89.58	7.33	4.53	2.80	0.00	0.93	0.02	0.36	-0.29	-0.03	-0.01	-0.04	-0.01
312	16	12	89.58	7.33	4.53	2.80	0.00	0.93	0.02	0.37	-0.29	-0.03	-0.01	-0.04	-0.01
313	16	13	89.58	7.33	4.53	2.80	0.00	0.93	0.02	0.37	-0.29	-0.03	-0.01	-0.04	-0.01
314	16	14	89.58	7.33	4.53	2.81	0.00	0.93	0.02	0.37	-0.29	-0.03	-0.01	-0.04	-0.01
315	16	15	89.58	7.33	4.53	2.81	0.00	0.93	0.02	0.37	-0.29	-0.03	-0.01	-0.04	-0.01
316	16	16	89.58	7.33	4.52	2.81	0.00	0.93	0.02	0.37	-0.29	-0.03	-0.01	-0.04	-0.01
317	16	17	89.58	7.33	4.52	2.81	0.00	0.93	0.02	0.37	-0.29	-0.03	-0.01	-0.04	-0.01
318	16	18	89.58	7.33	4.52	2.81	0.00	0.93	0.02	0.37	-0.29	-0.03	-0.01	-0.04	-0.01
319	16	19	89.58	7.33	4.52	2.81	0.00	0.93	0.02	0.37	-0.29	-0.03	-0.01	-0.04	-0.01

320	16	20	89.58	7.33	4.52	2.81	0.00	0.93	0.02	0.37	-0.29	-0.03	-0.01	-0.04	-0.01
321	17	1	89.58	7.33	4.52	2.81	0.00	0.93	0.04	0.38	-0.29	-0.03	0.00	-0.04	-0.01
322	17	2	89.58	7.33	4.52	2.81	0.00	0.93	0.04	0.40	-0.29	-0.03	0.00	-0.04	-0.01
323	17	3	89.58	7.33	4.52	2.81	0.00	0.93	0.04	0.40	-0.29	-0.03	0.00	-0.04	-0.01
324	17	4	89.58	7.33	4.52	2.81	0.00	0.93	0.04	0.40	-0.29	-0.03	0.00	-0.04	-0.01
325	17	5	89.58	7.33	4.52	2.81	0.00	0.93	0.04	0.40	-0.29	-0.03	0.00	-0.04	-0.01
326	17	6	89.58	7.33	4.53	2.81	0.00	0.93	0.04	0.40	-0.29	-0.03	0.00	-0.04	-0.01
327	17	7	89.58	7.33	4.53	2.80	0.00	0.93	0.04	0.40	-0.29	-0.03	0.00	-0.04	-0.01
328	17	8	89.58	7.33	4.53	2.80	0.00	0.93	0.04	0.40	-0.29	-0.03	0.00	-0.04	-0.01
329	17	9	89.58	7.33	4.53	2.80	0.00	0.93	0.04	0.40	-0.29	-0.03	0.00	-0.04	-0.01
330	17	10	89.58	7.33	4.53	2.80	0.00	0.93	0.04	0.40	-0.29	-0.03	0.00	-0.04	-0.01
331	17	11	89.58	7.33	4.53	2.80	0.00	0.93	0.04	0.40	-0.29	-0.03	0.00	-0.04	-0.01
332	17	12	89.58	7.33	4.53	2.80	0.00	0.93	0.04	0.40	-0.29	-0.03	0.00	-0.04	-0.01

APPENDIX G - PROJECTION INPUT SUMMARY

LOWER OUACHITA RIVER MODEL CRITERIA AND CRITICAL CONDITIONS

Criteria for dissolved oxygen:				
Month -->	Jun	Jul	Aug	Sep-May
Criteria -->	3.0 mg/l	3.0 mg/l	4.5 mg/l	5.0 mg/l

Ouachita River critical flow at the state line (Advent, 1992), Monroe and Riverton (F. Lee, 2001), and temperature and DO statistics at Monroe and Columbia (LDEQ ambient data 6/88-5/98), and at Sterlington (LDEQ ambient data 1/92-12/01):

Month -->	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
State line 7Q10 in cfs-->	2658	5269	4037	2436	1591	1049	894	802	829	822	1231	2059
Monroe 7Q10 in cfs-->	1951	4734	7013	4233	2411	938	406	355	328	306	448	658
Riverton 7Q10 in cfs-->	2418	7220	6085	4136	2269	1552	1214	1071	960	1059	1469	4100
Sterlington 90% temp in oC	11.1	10.1	15.8	19.7	23.4	28.2	31.7	32.9	29.5	25.5	18.6	12.1
Monroe 90% temp in ^{o}C	10.9	10.5	15.7	19.5	23.9	28.6	31.1	30.8	29.5	24.2	19.4	11.7
Columbia 90% temp in ^{o}C	11.3	10.6	15.5	19.8	24.0	28.2	30.7	31.8	30.2	25.0	19.6	12.9
Sterlington 90% temp in oF	52.0	50.2	60.4	67.5	74.1	82.8	89.1	91.2	85.1	77.9	65.5	53.8
Monroe 90% temp in ^{o}F	51.6	50.9	60.3	67.1	75.0	83.5	88.0	87.4	85.1	75.6	66.9	53.1
Columbia 90% temp in ^{o}F	52.3	51.1	59.9	67.6	75.2	82.8	87.3	89.2	86.4	77.0	67.3	55.2
Sterlington 80% sat DO in mg/l	8.8	9.0	7.9	7.3	6.8	6.2	5.9	5.8	6.1	6.6	7.5	8.6
Sterlington median DO in mg/l	9.0	8.5	7.4	5.5	5.1	5.2	5.2	5.5	5.8	6.5	8.4	8.2
Monroe median DO in mg/l	8.6	8.0	7.7	5.5	4.8	4.5	4.2	4.4	5.1	5.8	7.9	8.5
Columbia median DO in mg/l	8.9	8.1	7.6	6.6	5.1	4.4	4.4	4.7	5.6	6.5	8.1	8.7

Bayou Bartolomew critical flow (F. Lee, 2000), and 90 percentile temperature (LDEQW ambient data @ Bastrop 1/90-12/99):

Month -->	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
7Q10 flow in cfs-->	86	116	275	343	339	148	74	60	53	89	69	69
90% temp in ^{o}C	7.4	12.8	15.6	19.3	21.8	27.5	28.7	29.1	25.7	20.1	15.7	11.1
90% temp in ^{o}F	45.3	55.0	60.1	66.7	71.2	81.5	83.7	84.4	78.3	68.2	60.3	52.0
80% sat DO in mg/l	9.6	8.5	8.0	7.4	7.0	6.3	6.2	6.1	6.5	7.3	7.9	8.8
Median DO in mg/l	9.2	9.5	6.8	6.8	5.6	5.6	5.4	6.2	5.4	7.5	7.7	8.9

Bayou deLoutre near Laran - critical flow (F. Lee, 2001), 90 % temperature and median DO (LDEQ ambient data @ Hwy 2 for 1990 -1999):

Month -->	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
7Q10 flow in cfs -->	32.3	53.4	46.1	22.5	10.6	6.0	3.9	4.8	7.3	7.5	13.1	24.4
90% temp in ^{o}C	11.7	13.0	17.3	21.0	24.6	28.2	30.5	30.5	26.8	19.6	17.1	11.0
90% temp in ^{o}F	53.1	55.4	63.1	69.8	76.3	82.8	86.9	86.9	80.2	67.3	62.8	51.8
80% sat DO in mg/l	8.7	8.4	7.7	7.1	6.7	6.2	6.0	6.0	6.4	7.3	7.7	8.8
Median DO in mg/l	9.9	5.5	7.1	2.9	5.2	8.0	3.4	4.9	5.0	6.7	6.8	8.7

LOWER OUACHITA RIVER MODEL CRITERIA AND CRITICAL CONDITIONS

Bayou d'Arbonne near Dubach - critical flow (F. Lee, 2001), 90% temperature and median DO (LDEQ ambient data near Rocky Branch for 5/88-4/98):

Month -->	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
7Q10 flow in cfs -->	28.1	76.7	100.8	81.1	14.5	1.8	0.1	0.0	0.0	0.0	0.0	1.3
Temp in ^{o}C	11.0	11.4	18.6	19.2	23.5	27.7	29.1	30.6	28.3	22.3	18.8	12.0
Temp in ^{o}F	51.8	52.5	65.5	66.6	74.3	81.9	84.4	87.1	82.9	72.1	65.8	53.6
80% sat DO in mg/l	8.8	8.7	7.5	7.4	6.8	6.3	6.1	6.0	6.2	7.0	7.5	8.6
Median DO in mg/l	13.3	9.7	9.1	7.4	7.1	6.4	5.5	5.7	5.0	6.8	6.9	10.3

Chenere Creek critical flow (F. Lee, 2000): Annual 7Q10 = 0.5 cfs, temperature and DO (LDEQ ambient data near W. Monroe for 1999 only):

Month -->	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temp in oC	10.6	13.8	12.5	19.1	24.4	27.2	29.3	28.5	24.8	18.1	15.5	11.9
Temp in oF	51.1	56.8	54.5	66.4	75.9	81.0	84.7	83.3	76.6	64.6	59.9	53.4
80% sat DO in mg/l	8.9	8.3	8.5	7.4	6.7	6.4	6.1	6.2	6.6	7.6	8.0	8.6
Median DO in mg/l	6.1	3.5	8.3	4.5	5.3	5.2	3.8	3.2	5.4	6.2	7.6	7.6

Chauvin Bayou critical flow (Chauvin Bayou TMDL, 2001):
Annual 7Q10 = 2.4 cfs

Model "day of year start time": Calibration day = 199

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Days	31	28	31	30	31	30	31	31	30	31	30	31
Cumulative days	31	59	90	120	151	181	212	243	273	304	334	365
Start day for dynamic similation of 450 hours - 18.75 days												
	6	36	65	96	126	157	187	218	249	279	310	340
Start day for steady state simulation												
	16	45	75	105	136	166	197	228	258	289	319	350

LOWER OUACHITA RIVER MODEL DRY AND WET BULB TEMPERATURES FOR SHREVEPORT, LA, AND JACKSON, MS

CITY	YEAR	AVG TEMP	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Shreveport	1996	dry bulb	46.2	52.4	53.4	63.8	77.0	78.3	82.3	80.0	74.1	66.0	55.7	51.5
	1996	wet bulb	41.4	45.7	46.4	56.3	70.5	72.5	75.5	74.1	68.2	61.0	52.0	47.8
	1996	dry-wet	4.8	6.7	7.0	7.5	6.5	5.8	6.8	5.9	5.9	5.0	3.7	3.7
	1997	dry bulb	45.6	51.2	61.4	60.3	70.3	78.1	83.6	81.0	78.2	66.8	51.9	46.0
	1997	wet bulb	41.3	47.5	55.6	54.8	64.6	72.1	76.4	74.0	70.7	60.4	48.2	41.7
	1997	dry-wet	4.3	3.7	5.8	5.5	5.7	6.0	7.2	7.0	7.5	6.4	3.7	4.3
	1998	dry bulb	51.7	51.6	56.1	63.5	77.3	84.9	88.5	84.6	81.7	68.5	58.0	49.3
	1998	wet bulb	48.1	46.7	50.0	56.9	69.2	74.5	75.5	74.8	73.3	63.1	54.7	46.0
	1998	dry-wet	3.6	4.9	6.1	6.6	8.1	10.4	13.0	9.8	8.4	5.4	3.3	3.3
	1999	dry bulb	51.6	57.0	56.4	69.4	72.0	79.8	82.9	85.9	75.3	65.5	58.8	49.6
	1999	wet bulb		50.7	51.2	62.4	66.2	72.9	75.5	73.3	66.3		52.2	44.5
	1999	dry-wet		6.3	5.2	7.0	5.8	6.9	7.4	12.6	9.0		6.6	5.1
	2000	dry bulb	50.4	57.2	61.7	63.6	75.8	79.1	83.9	86.9	78.1	67.8	52.6	39.8
	2000	wet bulb	45.5	52.1	56.8	58.4	69.6	72.8	74.9	73.2		61.1	49.3	36.8
	2000	dry-wet	4.9	5.1	4.9	5.2	6.2	6.3	9.0	13.7		6.7	3.3	3.0
Jackson, MS	1996	dry bulb	45.2	49.8	51.9	61.5	75.7	78.6	81.3	78.9	73.6	65.2	55.3	50.9
	1996	wet bulb	41.6	44.1	46.0	54.9	68.5	71.4	73.6	73.3	67.9	59.5	51.2	
	1996	dry-wet	3.6	5.7	5.9	6.6	7.2	7.2	7.7	5.6	5.7	5.7	4.1	
	1997	dry bulb	46.0	51.5	61.5	59.6	69.8	77.1	82.3	79.5	76.7	65.1	50.7	44.9
	1997	wet bulb	41.6	47.8	55.5	53.9	63.7	71.6	75.7	72.9	69.1	58.4	48.0	42.0
	1997	dry-wet	4.4	3.7	6.0	5.7	6.1	5.5	6.6	6.6	7.6	6.7	2.7	2.9
	1998	dry bulb	49.2	50.0	55.7	62.6	74.4	82.2	83.5	82.7	80.6	68.4	58.7	51.4
	1998	wet bulb	46.8				68.3	74.6	76.7	74.4	71.9	61.5	55.0	47.8
	1998	dry-wet	2.4				6.1	7.6	6.8	8.3	8.7	6.9	3.7	3.6
	1999	dry bulb	51.9	53.9	54.4	69.3	71.5	79.5	82.0	84.0	75.2	65.0	55.8	48.4
	1999	wet bulb	47.8	48.9	49.1	62.5	64.8	72.0	75.1	73.8	65.5	58.5	50.4	44.3
	1999	dry-wet	4.1	5.0	5.3	6.8	6.7	7.5	6.9	10.2	9.7	6.5	5.4	4.1
	2000	dry bulb	48.8	54.7	60.4	61.8	75.3	78.7	83.5	85.0	76.5	65.7	52.1	38.5
	2000	wet bulb	44.5	49.1	54.9	57.0	68.5	71.8	73.2	73.1	67.8		48.3	35.1
	2000	dry-wet	4.3	5.6	5.5	4.8	6.8	6.9	10.3	11.9	8.7		3.8	3.4
Average	1996-2000	dry-wet	4.0	5.2	5.7	6.2	6.5	7.0	8.2	9.2	7.9	6.2	4.0	3.7
	1996-2000	std dev	0.8	1.0	0.6	0.9	0.7	1.4	2.1	2.9	1.4	0.7	1.1	0.7
Monroe	1991-2001	dry bulb	44.2	48.9	57.0	65.6	73.3	80.1	82.3	81.0	75.7	65.1	55.7	47.4
Monroe		est wet bulb	40.2	43.7	51.3	59.4	66.8	73.1	74.1	71.8	67.8	58.9	51.7	43.7

LOWER OUACHITA RIVER MODEL AVERAGE MONTHLY WIND SPEED												
Monroe Station Period of Record 1994 - 2001, Wind Speed in Knots												
Month-->	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1994	7.5	7.2	7.1	7.3	6.3	5.5	4.9	4.2	4.8	6.0	5.7	5.1
1995	7.5	7.2	6.6	6.2	8.0	6.2	6.0	5.1	5.4	4.9	6.7	7.5
1996	8.2	8.9	9.2	8.7	7.9	4.2	4.3	3.3	4.4	5.0	5.8	6.4
1997	7.1	6.4	6.6	6.9	5.9	5.1	4.2	4.8	4.5	5.7	5.5	7.1
1998	6.7	7.0	8.3	7.1	5.6	6.8	4.4	3.0	4.7	4.3	4.9	6.1
1999	6.6	6.5	6.9	7.2	4.9	4.8	3.5	4.4	4.3	3.7	3.9	5.6
2000	6.4	6.2	5.8	5.9	6.4	4.4	3.7	3.8	5.6	3.7	4.8	5.9
2001	5.2	6.5	5.8	6.1	5.0	4.1	3.3	3.5	3.8	4.0	4.0	5.0
Avg Knts-->	6.90	6.99	7.04	6.93	6.25	5.14	4.29	4.01	4.69	4.66	5.16	6.09
Avg mps-->	3.55	3.59	3.62	3.56	3.21	2.64	2.20	2.06	2.41	2.40	2.65	3.13
Avg fps-->	11.65	11.79	11.88	11.69	10.55	8.67	7.24	6.77	7.91	7.87	8.71	10.27

LOWER OUACHITA RIVER MODEL PROJECTION INPUT

Headwater and Point Sources								
Name	Represen-tative Site No.	ORM	Reach No.	Flow (cfs)	MOS (%)		Temp (oF)	DO (mg/l)
Headwater	OR1	200.15	1	(1)	10		(2)	(3)
Bayou Bartholomew	OR11	193.49	2	(1)	10		(2)	(3)
Ouachita Power intake	OR1	192.98	2	(12)	20		(8)	
Ouachita Power Outfall 001 & 002	OR1	192.90	2	(12)	20		(12)	(15)
Entergy Sterlington intake	OR1	192.58	2	(12)	20		(8)	
Entergy Sterlington Outfalls 001 & 002	OR1	192.46	2	(12)	20		(12)	(9)
Town of Sterlington	OR20	191.81	2	(12)	20		(14)	(16)
Koch Nitrogen Outfall 001	OR19	191.36	2	(12)	20		(14)	(16)
Angus Chemical Outfall 002	OR18	189.24	3	(12)	20		(14)	(16)
Bayou deLoutre	OR12	187.90	3	(1)	10		(2)	(3)
Bayou d'Arbonne	OR13	172.87	6	(1)	10		(2)	(3)
Bayou Chauvin	OR14	171.62	6	(13)	10		(5)	(5)
Entergy Monroe intake	OR4	169.41	7	(12)	20		(8)	
Entergy Monroe Outfall 001 & 002	OR4	169.29	7	(12)	20		(12)	(9)
Judy Slough	OR21	160.91	8	(7)	20		(4)	(16)
City of Monroe POTW	OR17	159.56	9	(12)	20		(14)	(16)
Cheniere Creek	OR15	153.63	10	(1)	10		(2)	(3)
Cypress Creek	OR16	133.32	14	(1)	--		(8)	--

Name	UCBOD (mg/l)	Chl-a (ug/l)	NH3-N (mg/l)	Org-N (mg/l)	NO2- (mg/l)	NO3- (mg/l)	OP (mg/l)	Org-P (mg/l)
Headwater	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)
Bayou Bartholomew	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)
Ouachita Power intake								
Ouachita Power Outfall 001 & 002	(6)	(21)	(6)	(6)	(6)	(6)	(6)	(6)
Entergy Sterlington intake								
Entergy Sterlington Outfalls 001 & 002	(6)	(21)	(6)	(6)	(6)	(6)	(6)	(6)
Town of Sterlington	(12)	(18)	(17)	(17)	(18)	(18)	(18)	(18)
Koch Nitrogen Outfall 001	(19)	(21)	(12)	(19)	(19)	(19)	(19)	(19)
Angus Chemical Outfall 002	(12)	(21)	(19)	(19)	(19)	(19)	(19)	(19)
Bayou deLoutre	(20)	(4)	(11)	(11)	(11)	(11)	(11)	(11)
Bayou d'Arbonne	(20)	(4)	(11)	(11)	(11)	(11)	(11)	(11)
Bayou Chauvin	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)
Entergy Monroe intake								
Entergy Monroe Outfall 001 & 002	(6)	(21)	(6)	(6)	(6)	(6)	(6)	(6)
Judy Slough	(19)	(19)	(19)	(19)	(19)	(19)	(19)	(19)
City of Monroe POTW	(12)	(21)	(12)	(12)	(19)	(19)	(19)	(19)
Cheniere Creek	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)
Cypress Creek	--	--	--	--	--	--	--	--

(1) Monthly 7Q10 flow
(2) Monthly 90 percentile temperature
(3) At 80% of saturation
(4) Equal to the Cheniere Creek water quality
(5) Equal to the Bayou Bartholomew temperature and DO
(6) Approximately equal to concentration in intake from Ouachita river
(7) The Judy Slough flow is calculated from the Riverwood Industries Outfall 001 hydrograph controlled release permit limitation, incorporating the necessary MOS and load reduction.
(8) A temperature is needed for QUAL2E to run but is not actually used
(9) Entergy power plant discharge temperature is set by permit, and the DO is approximately .2 mg/l less than the intake based on survey data.
(10) Survey concentrations adjusted for MOS and required load reduction.
(11) Average long term annual ambient data were used to estimate inputs which were then adjusted for MOS and % reduction.
(12) Permit and permit application information; flows adjusted for MOS and % reduction.
(13) From Chauvin Bayou TMDL
(14) Outfall temperatures of 30 ˚C = 86 ˚F are assumed.
(15) Cooling loop blow-down, assume a DO of 6.
(16) For these treated wastewater discharges a DO of 2 was assumed.
(17) Based on the Louisiana Technical Procedures.
(18) Based on data from other oxidation ponds.
(19) From survey data.
(20) In the absence of data, set UCBOD to 5.
(21) Chl-a assumed to be zero for this type of discharge.

LOWER OUACHITA RIVER MODEL PROJECTION POINT SOURCE INPUT FOR MAY WITHOUT LOAD REDUCTION

Headwater and Point Sources									
Name	Representative Site No.	ORM	Reach No.	Flow (cfs)	MOS (%)	Flow reduction (%)	Adj flow (cfs)	Temp (^{o}F)	DO (mg/l)
Headwater	OR1	200.15	1	1591		0	1591.00	74.1	6.80
Bayou Bartholomew	OR11	193.49	2	339		0	339.00	71.2	7.00
Ouachita Power intake	OR1	192.98	2	8.5	20	0	10.62	74.1	--
Ouachita Power Outfall 001 & 002	OR1	192.90	2	1.9	20	0	2.40	99.0	6.00
Entergy Sterlington intake	OR1	192.58	2	246	20	0	307.54	74.1	--
Entergy Sterlington Outfalls 001 & 002	OR1	192.46	2	246	20	0	307.54	112.0	6.60
Town of Sterlington	OR20	191.81	2	0.23	20	0	0.29	86.0	2.00
Koch Nitrogen Outfall 001	OR19	191.36	2	3.85	20	0	4.82	86.0	2.00
Angus Chemical Outfall 002	OR18	189.24	3	1.16	20	0	1.45	86.0	2.00
Bayou deLoutre	OR12	187.90	3	10.6		0	10.60	76.3	6.70
Bayou d'Arbonne	OR13	172.87	6	14.5		0	14.50	74.3	6.80
Bayou Chauvin	OR14	171.62	6	2.4		0	2.40	71.2	7.00
Entergy Monroe intake	OR4	169.41	7	179	20	0	224.30	75.1	--
Entergy Monroe Outfall 001 & 002	OR4	169.29	7	179	20	0	224.30	106.0	6.16
Judy Slough	OR21	160.91	8		20	0	45.54	75.9	2.00
City of Monroe POTW	OR17	159.56	9	18.6	20	0	23.21	86.0	2.00
Cheniere Creek	OR15	153.63	10	0.50		0	0.50	75.9	6.70
Cypress Creek	OR16	133.32	14	0.00		0	0.00	86.0	--

Name	Load reduction (%)	UCBOD (mg/l)	Chl-a (ug/l)	Org-N (mg/l)	NH3-N (mg/l)	NO2- (mg/l)	NO_3^- (mg/l)	Org-P (mg/l)	Ortho-P (mg/l)
Headwater	0	5.6	13.80	0.72	0.03	0.02	0.17	0.04	0.02
Bayou Bartholomew	0	8.1	17.40	0.70	0.02	0.02	0.22	0.21	0.03
Ouachita Power intake	0								
Ouachita Power Outfall 001 & 002	0	5.0	0.00	0.70	0.03	0.02	0.16	0.08	0.02
Entergy Sterlington intake	0								
Entergy Sterlington Outfalls 001 & 002	0	5.0	0.00	0.70	0.03	0.02	0.20	0.10	0.02
Town of Sterlington	0	69.0	100.00	10.00	5.00	0.00	0.70	2.50	1.00
Koch Nitrogen Outfall 001	0	10.7	0.00	0.76	16.50	0.00	0.58	0.24	0.15
Angus Chemical Outfall 002	0	106.0	0.00	8.32	0.31	0.00	34.33	0.33	0.01
Bayou deLoutre	0	5.6	13.30	0.81	0.02	0.02	0.08	0.08	0.01
Bayou d'Arbonne	0	5.6	13.30	0.71	0.02	0.02	0.07	0.06	0.01
Bayou Chauvin	0	23.0	29.30	1.88	1.24	0.02	0.22	0.41	0.63
Entergy Monroe intake	0								
Entergy Monroe Outfall 001 & 002	0	7.0	0.00	0.67	0.04	0.04	0.30	0.15	0.03
Judy Slough	0	86.4	12.20	2.98	1.50	0.00	0.12	0.69	0.70
City of Monroe POTW	0	23.0	0.00	0.67	1.33	0.00	6.36	0.95	0.29
Cheniere Creek	0	12.1	13.30	0.81	0.02	0.00	0.03	0.06	0.01
Cypress Creek	0								

LOWER OUACHITA RIVER MODEL PROJECTION POINT SOURCE INPUT FOR JUNE WITHOUT LOAD REDUCTION

Headwater and Point Sources

Name	Representative Site No.	ORM	Reach No.	Flow (cfs)	MOS (%)	Flow reduction (%)	Adj flow (cfs)	Temp (^{o}F)	DO (mg/l)
Headwater	OR1	200.15	1	1049		0	1049.00	82.8	6.20
Bayou Bartholomew	OR11	193.49	2	148		0	148.00	81.5	6.30
Ouachita Power intake	OR1	192.98	2	8.5	20	0	10.62	--	--
Ouachita Power Outfall 001 & 002	OR1	192.90	2	1.9	20	0	2.40	99.0	6.00
Entergy Sterlington intake	OR1	192.58	2	246	20	0	307.54	--	--
Entergy Sterlington Outfalls 001 & 002	OR1	192.46	2	246	20	0	307.54	112.0	6.00
Town of Sterlington	OR20	191.81	2	0.23	20	0	0.29	86.0	2.00
Koch Nitrogen Outfall 001	OR19	191.36	2	3.85	20	0	4.82	86.0	2.00
Angus Chemical Outfall 002	OR18	189.24	3	1.16	20	0	1.45	86.0	2.00
Bayou deLoutre	OR12	187.90	3	6.0		0	6.00	82.8	6.20
Bayou d'Arbonne	OR13	172.87	6	1.8		0	1.80	81.9	6.30
Bayou Chauvin	OR14	171.62	6	2.4		0	2.40	81.5	6.30
Entergy Monroe intake	OR4	169.41	7	179	20	0	224.30	--	--
Entergy Monroe Outfall 001 & 002	OR4	169.29	7	179	20	0	224.30	106.0	5.30
Judy Slough	OR21	160.91	8		20	0	37.03	81.0	2.00
City of Monroe POTW	OR17	159.56	9	18.6	20	0	23.21	86.0	2.00
Cheniere Creek	OR15	153.63	10	0.50		0	0.50	81.0	6.40
Cypress Creek	OR16	133.32	14	0.00		0	0.00	86.0	--

Name	Load reduction (%)	UCBOD (mg/l)	Chl-a (ug/l)	Org-N (mg/l)	NH3-N (mg/l)	NO2- (mg/l)	NO_3^- (mg/l)	Org-P (mg/l)	Ortho-P (mg/l)
Headwater	0	5.6	13.80	0.72	0.03	0.02	0.17	0.04	0.02
Bayou Bartholomew	0	8.1	17.40	0.70	0.02	0.02	0.22	0.21	0.03
Ouachita Power intake	0								
Ouachita Power Outfall 001 & 002	0	5.0	0.00	0.70	0.03	0.02	0.16	0.08	0.02
Entergy Sterlington intake	0								
Entergy Sterlington Outfalls 001 & 002	0	5.0	0.00	0.70	0.03	0.02	0.20	0.10	0.02
Town of Sterlington	0	69.0	100.00	10.00	5.00	0.00	0.70	2.50	1.00
Koch Nitrogen Outfall 001	0	10.7	0.00	0.76	16.50	0.00	0.58	0.24	0.15
Angus Chemical Outfall 002	0	106.0	0.00	8.32	0.31	0.00	34.33	0.33	0.01
Bayou deLoutre	0	5.6	13.30	0.81	0.02	0.02	0.08	0.08	0.01
Bayou d'Arbonne	0	5.6	13.30	0.71	0.02	0.02	0.07	0.06	0.01
Bayou Chauvin	0	23.0	29.30	1.88	1.24	0.02	0.22	0.41	0.63
Entergy Monroe intake	0								
Entergy Monroe Outfall 001 & 002	0	7.0	0.00	0.67	0.04	0.04	0.30	0.15	0.03
Judy Slough	0	86.4	12.20	2.98	1.50	0.00	0.12	0.69	0.70
City of Monroe POTW	0	23.0	0.00	0.67	1.33	0.00	6.36	0.95	0.29
Cheniere Creek	0	12.1	13.30	0.81	0.02	0.00	0.03	0.06	0.01
Cypress Creek	0								

LOWER OUACHITA RIVER MODEL PROJECTION POINT SOURCE INPUT FOR JULY WITHOUT LOAD REDUCTION

Headwater and Point Sources

Name	Representative Site No.	ORM	Reach No.	Flow (cfs)	MOS (%)	Flow reduction (%)	Adj flow (cfs)	Temp (^{o}F)	DO (mg/l)
Headwater	OR1	200.15	1	894		0	894.00	89.1	5.90
Bayou Bartholomew	OR11	193.49	2	74		0	74.00	83.7	6.20
Ouachita Power intake	OR1	192.98	2	8.5	20	0	10.62	--	--
Ouachita Power Outfall 001 & 002	OR1	192.90	2	1.9	20	0	2.40	99.0	6.00
Entergy Sterlington intake	OR1	192.58	2	246	20	0	307.54	--	--
Entergy Sterlington Outfalls 001 & 002	OR1	192.46	2	246	20	0	307.54	112.0	5.70
Town of Sterlington	OR20	191.81	2	0.23	20	0	0.29	86.0	2.00
Koch Nitrogen Outfall 001	OR19	191.36	2	3.85	20	0	4.82	86.0	2.00
Angus Chemical Outfall 002	OR18	189.24	3	1.16	20	0	1.45	86.0	2.00
Bayou deLoutre	OR12	187.90	3	3.9		0	3.90	86.9	6.00
Bayou d'Arbonne	OR13	172.87	6	0.1		0	0.10	84.4	6.10
Bayou Chauvin	OR14	171.62	6	2.4		0	2.40	83.7	6.20
Entergy Monroe intake	OR4	169.41	7	179	20	0	224.30	--	--
Entergy Monroe Outfall 001 & 002	OR4	169.29	7	179	20	0	224.30	106.0	4.63
Judy Slough	OR21	160.91	8		20	0	31.34	84.7	2.00
City of Monroe POTW	OR17	159.56	9	18.6	20	0	23.21	86.0	2.00
Cheniere Creek	OR15	153.63	10	0.50		0	0.50	84.7	6.10
Cypress Creek	OR16	133.32	14	0.00		0	0.00	86.0	--

Name	Load reduction (%)	UCBOD (mg/l)	Chl-a (ug/l)	Org-N (mg/l)	NH3-N (mg/l)	NO2- (mg/l)	NO_3^- (mg/l)	Org-P (mg/l)	Ortho-P (mg/l)
Headwater	0	5.6	13.80	0.72	0.03	0.02	0.17	0.04	0.02
Bayou Bartholomew	0	8.1	17.40	0.70	0.02	0.02	0.22	0.21	0.03
Ouachita Power intake	0								
Ouachita Power Outfall 001 & 002	0	5.0	0.00	0.70	0.03	0.02	0.16	0.08	0.02
Entergy Sterlington intake	0								
Entergy Sterlington Outfalls 001 & 002	0	5.0	0.00	0.70	0.03	0.02	0.20	0.10	0.02
Town of Sterlington	0	69.0	100.00	10.00	5.00	0.00	0.70	2.50	1.00
Koch Nitrogen Outfall 001	0	10.7	0.00	0.76	16.50	0.00	0.58	0.24	0.15
Angus Chemical Outfall 002	0	106.0	0.00	8.32	0.31	0.00	34.33	0.33	0.01
Bayou deLoutre	0	5.6	13.30	0.81	0.02	0.02	0.08	0.08	0.01
Bayou d'Arbonne	0	5.6	13.30	0.71	0.02	0.02	0.07	0.06	0.01
Bayou Chauvin	0	23.0	29.30	1.88	1.24	0.02	0.22	0.41	0.63
Entergy Monroe intake	0								
Entergy Monroe Outfall 001 & 002	0	7.0	0.00	0.67	0.04	0.04	0.30	0.15	0.03
Judy Slough	0	86.4	12.20	2.98	1.50	0.00	0.12	0.69	0.70
City of Monroe POTW	0	23.0	0.00	0.67	1.33	0.00	6.36	0.95	0.29
Cheniere Creek	0	12.1	13.30	0.81	0.02	0.00	0.03	0.06	0.01
Cypress Creek	0								

LOWER OUACHITA RIVER MODEL PROJECTION POINT SOURCE INPUT FOR AUGUST WITHOUT LOAD REDUCTION

Headwater and Point Sources

Name	Representative Site No.	ORM	Reach No.	Flow (cfs)	MOS (%)	Flow reduction (%)	Adj flow (cfs)	Temp (^{o}F)	DO (mg/l)
Headwater	OR1	200.15	1	802		0	802.00	91.2	5.80
Bayou Bartholomew	OR11	193.49	2	60		0	60.00	84.4	6.10
Ouachita Power intake	OR1	192.98	2	8.5	20	0	10.62	--	--
Ouachita Power Outfall 001 & 002	OR1	192.90	2	1.9	20	0	2.40	99.0	6.00
Entergy Sterlington intake	OR1	192.58	2	246	20	0	307.54	--	--
Entergy Sterlington Outfalls 001 & 002	OR1	192.46	2	246	20	0	307.54	112.0	5.60
Town of Sterlington	OR20	191.81	2	0.23	20	0	0.29	86.0	2.00
Koch Nitrogen Outfall 001	OR19	191.36	2	3.85	20	0	4.82	86.0	2.00
Angus Chemical Outfall 002	OR18	189.24	3	1.16	20	0	1.45	86.0	2.00
Bayou deLoutre	OR12	187.90	3	4.8		0	4.80	86.9	6.00
Bayou d'Arbonne	OR13	172.87	6	0.0		0	0.00	87.1	6.00
Bayou Chauvin	OR14	171.62	6	2.4		0	2.40	84.4	6.10
Entergy Monroe intake	OR4	169.41	7	179	20	0	224.30	--	--
Entergy Monroe Outfall 001 & 002	OR4	169.29	7	179	20	0	224.30	106.0	4.43
Judy Slough	OR21	160.91	8		20	0	27.96	83.3	2.00
City of Monroe POTW	OR17	159.56	9	18.6	20	0	23.21	86.0	2.00
Cheniere Creek	OR15	153.63	10	0.50		0	0.50	83.3	6.20
Cypress Creek	OR16	133.32	14	0.00		0	0.00	86.0	--

Name	Load reduction (%)	UCBOD (mg/l)	Chl-a (ug/l)	Org-N (mg/l)	NH3-N (mg/l)	NO2- (mg/l)	NO_3^- (mg/l)	Org-P (mg/l)	Ortho-P (mg/l)
Headwater	0	5.6	13.80	0.72	0.03	0.02	0.17	0.04	0.02
Bayou Bartholomew	0	8.1	17.40	0.70	0.02	0.02	0.22	0.21	0.03
Ouachita Power intake	0								
Ouachita Power Outfall 001 & 002	0	5.0	0.00	0.70	0.03	0.02	0.16	0.08	0.02
Entergy Sterlington intake	0								
Entergy Sterlington Outfalls 001 & 002	0	5.0	0.00	0.70	0.03	0.02	0.20	0.10	0.02
Town of Sterlington	0	69.0	100.00	10.00	5.00	0.00	0.70	2.50	1.00
Koch Nitrogen Outfall 001	0	10.7	0.00	0.76	16.50	0.00	0.58	0.24	0.15
Angus Chemical Outfall 002	0	106.0	0.00	8.32	0.31	0.00	34.33	0.33	0.01
Bayou deLoutre	0	5.6	13.30	0.81	0.02	0.02	0.08	0.08	0.01
Bayou d'Arbonne	0	5.6	13.30	0.71	0.02	0.02	0.07	0.06	0.01
Bayou Chauvin	0	23.0	29.30	1.88	1.24	0.02	0.22	0.41	0.63
Entergy Monroe intake	0								
Entergy Monroe Outfall 001 & 002	0	7.0	0.00	0.67	0.04	0.04	0.30	0.15	0.03
Judy Slough	0	86.4	12.20	2.98	1.50	0.00	0.12	0.69	0.70
City of Monroe POTW	0	23.0	0.00	0.67	1.33	0.00	6.36	0.95	0.29
Cheniere Creek	0	12.1	13.30	0.81	0.02	0.00	0.03	0.06	0.01
Cypress Creek	0								

LOWER OUACHITA RIVER MODEL PROJECTION POINT SOURCE INPUT FOR AUGUST TO MEET CRITERIA

Headwater and Point Sources									
Name	Representative Site No.	ORM	Reach No.	Flow (cfs)	MOS (%)	Flow reduction (%)	Adj flow (cfs)	Temp (^{o}F)	DO (mg/l)
Headwater	OR1	200.15	1	802		0	802.00	91.2	5.80
Bayou Bartholomew	OR11	193.49	2	60		0	60.00	84.4	6.10
Ouachita Power intake	OR1	192.98	2	8.5	20	0	10.62	--	--
Ouachita Power Outfall 001 & 002	OR1	192.90	2	1.9	20	0	2.40	99.0	6.00
Entergy Sterlington intake	OR1	192.58	2	246	20	0	307.54	--	--
Entergy Sterlington Outfalls 001 & 002	OR1	192.46	2	246	20	0	307.54	112.0	5.60
Town of Sterlington	OR20	191.81	2	0.23	20	0	0.29	86.0	2.00
Koch Nitrogen Outfall 001	OR19	191.36	2	3.85	20	0	4.82	86.0	2.00
Angus Chemical Outfall 002	OR18	189.24	3	1.16	20	0	1.45	86.0	2.00
Bayou deLoutre	OR12	187.90	3	4.8		0	4.80	86.9	6.00
Bayou d'Arbonne	OR13	172.87	6	0.0		0	0.00	87.1	6.00
Bayou Chauvin	OR14	171.62	6	2.4		0	2.40	84.4	6.10
Entergy Monroe intake	OR4	169.41	7	179	20	0	224.30	--	--
Entergy Monroe Outfall 001 & 002	OR4	169.29	7	179	20	0	224.30	106.0	4.91
Judy Slough	OR21	160.91	8		20	0	27.96	83.3	2.00
City of Monroe POTW	OR17	159.56	9	18.6	20	0	23.21	86.0	2.00
Cheniere Creek	OR15	153.63	10	0.50		0	0.50	83.3	6.20
Cypress Creek	OR16	133.32	14	0.00		0	0.00	86.0	--

Name	Load reduction (%)	UCBOD (mg/l)	Chl-a (ug/l)	Org-N (mg/l)	NH3-N (mg/l)	NO2- (mg/l)	NO_3^- (mg/l)	Org-P (mg/l)	Ortho-P (mg/l)
Headwater	0	4.7	11.70	0.61	0.03	0.02	0.14	0.04	0.02
Bayou Bartholomew	0	8.1	17.40	0.70	0.02	0.02	0.22	0.21	0.03
Ouachita Power intake	0								
Ouachita Power Outfall 001 & 002	0	5.0	0.00	0.70	0.03	0.02	0.16	0.08	0.02
Entergy Sterlington intake	0								
Entergy Sterlington Outfalls 001 & 002	0	5.0	0.00	0.70	0.03	0.02	0.20	0.10	0.02
Town of Sterlington	0	69.0	100.00	10.00	5.00	0.00	0.70	2.50	1.00
Koch Nitrogen Outfall 001	0	10.7	0.00	0.76	16.50	0.00	0.58	0.24	0.15
Angus Chemical Outfall 002	0	106.0	0.00	8.32	0.31	0.00	34.33	0.33	0.01
Bayou deLoutre	0	5.6	13.30	0.81	0.02	0.02	0.08	0.08	0.01
Bayou d'Arbonne	0	5.6	13.30	0.71	0.02	0.02	0.07	0.06	0.01
Bayou Chauvin	0	23.0	29.30	1.88	1.24	0.02	0.22	0.41	0.63
Entergy Monroe intake	0								
Entergy Monroe Outfall 001 & 002	0	7.0	0.00	0.67	0.04	0.04	0.30	0.15	0.03
Judy Slough	0	86.4	12.20	2.98	1.50	0.00	0.12	0.69	0.70
City of Monroe POTW	0	23.0	0.00	0.67	1.33	0.00	6.36	0.95	0.29
Cheniere Creek	0	12.1	13.30	0.81	0.02	0.00	0.03	0.06	0.01
Cypress Creek	0								

LOWER OUACHITA RIVER MODEL PROJECTION POINT SOURCE INPUT FOR SEPTEMBER WITHOUT LOAD REDUCTION

Headwater and Point Sources									
Name	Representative Site No.	ORM	Reach No.	Flow (cfs)	MOS (%)	Flow reduction (%)	Adj flow (cfs)	Temp (^{o}F)	DO (mg/l)
Headwater	OR1	200.15	1	829		0	829.00	85.1	6.10
Bayou Bartholomew	OR11	193.49	2	53		0	53.00	78.3	6.50
Ouachita Power intake	OR1	192.98	2	8.5	20	0	10.62	--	--
Ouachita Power Outfall 001 & 002	OR1	192.90	2	1.9	20	0	2.40	99.0	6.00
Entergy Sterlington intake	OR1	192.58	2	246	20	0	307.54	--	--
Entergy Sterlington Outfalls 001 & 002	OR1	192.46	2	246	20	0	307.54	112.0	5.90
Town of Sterlington	OR20	191.81	2	0.23	20	0	0.29	86.0	2.00
Koch Nitrogen Outfall 001	OR19	191.36	2	3.85	20	0	4.82	86.0	2.00
Angus Chemical Outfall 002	OR18	189.24	3	1.16	20	0	1.45	86.0	2.00
Bayou deLoutre	OR12	187.90	3	7.3		0	7.30	80.2	6.40
Bayou d'Arbonne	OR13	172.87	6	0.0		0	0.00	82.9	6.20
Bayou Chauvin	OR14	171.62	6	2.4		0	2.40	78.3	6.50
Entergy Monroe intake	OR4	169.41	7	179	20	0	224.30	--	--
Entergy Monroe Outfall 001 & 002	OR4	169.29	7	179	20	0	224.30	106.0	4.82
Judy Slough	OR21	160.91	8		20	0	28.95	76.6	2.00
City of Monroe POTW	OR17	159.56	9	18.6	20	0	23.21	86.0	2.00
Cheniere Creek	OR15	153.63	10	0.50		0	0.50	76.6	6.60
Cypress Creek	OR16	133.32	14	0.00		0	0.00	86.0	--

Name	Load reduction (%)	UCBOD (mg/l)	Chl-a (ug/l)	Org-N (mg/l)	NH3-N (mg/l)	NO2- (mg/l)	NO_3^- (mg/l)	Org-P (mg/l)	Ortho-P (mg/l)
Headwater	0	5.6	13.80	0.72	0.03	0.02	0.17	0.04	0.02
Bayou Bartholomew	0	8.1	17.40	0.70	0.02	0.02	0.22	0.21	0.03
Ouachita Power intake	0								
Ouachita Power Outfall 001 & 002	0	5.0	0.00	0.70	0.03	0.02	0.16	0.08	0.02
Entergy Sterlington intake	0								
Entergy Sterlington Outfalls 001 & 002	0	5.0	0.00	0.70	0.03	0.02	0.20	0.10	0.02
Town of Sterlington	0	69.0	100.00	10.00	5.00	0.00	0.70	2.50	1.00
Koch Nitrogen Outfall 001	0	10.7	0.00	0.76	16.50	0.00	0.58	0.24	0.15
Angus Chemical Outfall 002	0	106.0	0.00	8.32	0.31	0.00	34.33	0.33	0.01
Bayou deLoutre	0	5.6	13.30	0.81	0.02	0.02	0.08	0.08	0.01
Bayou d'Arbonne	0	5.6	13.30	0.71	0.02	0.02	0.07	0.06	0.01
Bayou Chauvin	0	23.0	29.30	1.88	1.24	0.02	0.22	0.41	0.63
Entergy Monroe intake	0								
Entergy Monroe Outfall 001 & 002	0	7.0	0.00	0.67	0.04	0.04	0.30	0.15	0.03
Judy Slough	0	86.4	12.20	2.98	1.50	0.00	0.12	0.69	0.70
City of Monroe POTW	0	23.0	0.00	0.67	1.33	0.00	6.36	0.95	0.29
Cheniere Creek	0	12.1	13.30	0.81	0.02	0.00	0.03	0.06	0.01
Cypress Creek	0								

LOWER OUACHITA RIVER MODEL PROJECTION POINT SOURCE INPUT FOR SEPTEMBER TO MEET CRITERIA

Headwater and Point Sources									
Name	Representative Site No.	ORM	Reach No.	Flow (cfs)	MOS (%)	Flow reduction (%)	Adj flow (cfs)	Temp (^{o}F)	DO (mg/l)
Headwater	OR1	200.15	1	829		0	829.00	85.1	6.10
Bayou Bartholomew	OR11	193.49	2	53		0	53.00	78.3	6.50
Ouachita Power intake	OR1	192.98	2	8.5	20	0	10.62	--	--
Ouachita Power Outfall 001 & 002	OR1	192.90	2	1.9	20	0	2.40	99.0	6.00
Entergy Sterlington intake	OR1	192.58	2	246	20	0	307.54	--	--
Entergy Sterlington Outfalls 001 & 002	OR1	192.46	2	246	20	0	307.54	112.0	5.90
Town of Sterlington	OR20	191.81	2	0.23	20	0	0.29	86.0	2.00
Koch Nitrogen Outfall 001	OR19	191.36	2	3.85	20	0	4.82	86.0	2.00
Angus Chemical Outfall 002	OR18	189.24	3	1.16	20	0	1.45	86.0	2.00
Bayou deLoutre	OR12	187.90	3	7.3		0	7.30	80.2	6.40
Bayou d'Arbonne	OR13	172.87	6	0.0		0	0.00	82.9	6.20
Bayou Chauvin	OR14	171.62	6	2.4		0	2.40	78.3	6.50
Entergy Monroe intake	OR4	169.41	7	179	20	0	224.30	--	--
Entergy Monroe Outfall 001 & 002	OR4	169.29	7	179	20	0	224.30	106.0	4.82
Judy Slough	OR21	160.91	8		20	0	24.61	76.6	2.00
City of Monroe POTW	OR17	159.56	9	18.6	20	0	23.21	86.0	2.00
Cheniere Creek	OR15	153.63	10	0.50		0	0.50	76.6	6.60
Cypress Creek	OR16	133.32	14	0.00		0	0.00	86.0	--

Name	Load reduction (%)	UCBOD (mg/l)	Chl-a (ug/l)	Org-N (mg/l)	NH3-N (mg/l)	NO2- (mg/l)	NO_3^- (mg/l)	Org-P (mg/l)	Ortho-P (mg/l)
Headwater	0	4.7	11.70	0.61	0.03	0.02	0.14	0.04	0.02
Bayou Bartholomew	0	8.1	17.40	0.70	0.02	0.02	0.22	0.21	0.03
Ouachita Power intake	0								
Ouachita Power Outfall 001 & 002	0	5.0	0.00	0.70	0.03	0.02	0.16	0.08	0.02
Entergy Sterlington intake	0								
Entergy Sterlington Outfalls 001 & 002	0	5.0	0.00	0.70	0.03	0.02	0.20	0.10	0.02
Town of Sterlington	0	69.0	100.00	10.00	5.00	0.00	0.70	2.50	1.00
Koch Nitrogen Outfall 001	0	10.7	0.00	0.76	16.50	0.00	0.58	0.24	0.15
Angus Chemical Outfall 002	0	106.0	0.00	8.32	0.31	0.00	34.33	0.33	0.01
Bayou deLoutre	0	5.6	13.30	0.81	0.02	0.02	0.08	0.08	0.01
Bayou d'Arbonne	0	5.6	13.30	0.71	0.02	0.02	0.07	0.06	0.01
Bayou Chauvin	0	23.0	29.30	1.88	1.24	0.02	0.22	0.41	0.63
Entergy Monroe intake	0								
Entergy Monroe Outfall 001 & 002	0	7.0	0.00	0.67	0.04	0.04	0.30	0.15	0.03
Judy Slough	0	86.4	12.20	2.98	1.50	0.00	0.12	0.69	0.70
City of Monroe POTW	0	23.0	0.00	0.67	1.33	0.00	6.36	0.95	0.29
Cheniere Creek	0	12.1	13.30	0.81	0.02	0.00	0.03	0.06	0.01
Cypress Creek	0								

LOWER OUACHITA RIVER MODEL PROJECTION POINT SOURCE INPUT FOR NOVEMBER WITHOUT LOAD REDUCTION

Headwater and Point Sources

Name	Representative Site No.	ORM	Reach No.	Flow (cfs)	MOS (%)	Flow reduction (%)	Adj flow (cfs)	Temp (^{o}F)	DO (mg/l)
Headwater	OR1	200.15	1	1231		0	1231.00	65.5	7.50
Bayou Bartholomew	OR11	193.49	2	69		0	69.00	60.3	7.90
Ouachita Power intake	OR1	192.98	2	8.5	20	0	10.62	--	--
Ouachita Power Outfall 001 & 002	OR1	192.90	2	1.9	20	0	2.40	99.0	6.00
Entergy Sterlington intake	OR1	192.58	2	246	20	0	307.54	--	--
Entergy Sterlington Outfalls 001 & 002	OR1	192.46	2	246	20	0	307.54	112.0	7.70
Town of Sterlington	OR20	191.81	2	0.23	20	0	0.29	86.0	2.00
Koch Nitrogen Outfall 001	OR19	191.36	2	3.85	20	0	4.82	86.0	2.00
Angus Chemical Outfall 002	OR18	189.24	3	1.16	20	0	1.45	86.0	2.00
Bayou deLoutre	OR12	187.90	3	13.1		0	13.10	62.8	7.70
Bayou d'Arbonne	OR13	172.87	6	0.0		0	0.00	65.8	7.50
Bayou Chauvin	OR14	171.62	6	2.4		0	2.40	60.3	7.90
Entergy Monroe intake	OR4	169.41	7	179	20	0	224.30	--	--
Entergy Monroe Outfall 001 & 002	OR4	169.29	7	179	20	0	224.30	106.0	6.75
Judy Slough	OR21	160.91	8		20	0	43.71	59.9	2.00
City of Monroe POTW	OR17	159.56	9	18.6	20	0	23.21	86.0	2.00
Cheniere Creek	OR15	153.63	10	0.50		0	0.50	59.9	8.00
Cypress Creek	OR16	133.32	14	0.00		0	0.00	86.0	--

Name	Load reduction (%)	UCBOD (mg/l)	Chl-a (ug/l)	Org-N (mg/l)	NH3-N (mg/l)	NO2- (mg/l)	NO_3^- (mg/l)	Org-P (mg/l)	Ortho-P (mg/l)
Headwater	0	5.6	13.80	0.72	0.03	0.02	0.17	0.04	0.02
Bayou Bartholomew	0	8.1	17.40	0.70	0.02	0.02	0.22	0.21	0.03
Ouachita Power intake	0								
Ouachita Power Outfall 001 & 002	0	5.0	0.00	0.70	0.03	0.02	0.16	0.08	0.02
Entergy Sterlington intake	0								
Entergy Sterlington Outfalls 001 & 002	0	5.0	0.00	0.70	0.03	0.02	0.20	0.10	0.02
Town of Sterlington	0	69.0	100.00	10.00	5.00	0.00	0.70	2.50	1.00
Koch Nitrogen Outfall 001	0	10.7	0.00	0.76	16.50	0.00	0.58	0.24	0.15
Angus Chemical Outfall 002	0	106.0	0.00	8.32	0.31	0.00	34.33	0.33	0.01
Bayou deLoutre	0	5.6	13.30	0.81	0.02	0.02	0.08	0.08	0.01
Bayou d'Arbonne	0	5.6	13.30	0.71	0.02	0.02	0.07	0.06	0.01
Bayou Chauvin	0	23.0	29.30	1.88	1.24	0.02	0.22	0.41	0.63
Entergy Monroe intake	0								
Entergy Monroe Outfall 001 & 002	0	7.0	0.00	0.67	0.04	0.04	0.30	0.15	0.03
Judy Slough	0	86.4	12.20	2.98	1.50	0.00	0.12	0.69	0.70
City of Monroe POTW	0	23.0	0.00	0.67	1.33	0.00	6.36	0.95	0.29
Cheniere Creek	0	12.1	13.30	0.81	0.02	0.00	0.03	0.06	0.01
Cypress Creek	0								

MAY WIND AIDED REAERATION CALCULATIONS													
REACH	AVG FLOW	AVG DEPTH (D)	AVG VELOCITY (V)	AVG TEMP	AVG TEMP (T)	$K2_{20}$ = O'CONNOR-DOBBINS	$K2_T$	$K2_{20}$ = 2.3/H	MAX $K2_{20}$	V_W(10m)	V_W(10m)	V_{WS}(0.3m)	WIND AIDED $K2_{20}$
	(cfs)	(ft)	(fps)	(^oF)	(^oC)	(1/d)	(1/d)	(1/d)	(1/d)	(fps)	(mps)	(mps)	(1/d)
1	1593	15.79	0.249	74.25	23.47	0.103	0.111	0.146	0.146	10.55	3.22	1.95	0.250
2	1797	14.72	0.302	76.68	24.82	0.125	0.141	0.156	0.156	10.55	3.22	1.95	0.268
3	1941	13.61	0.355	78.75	25.97	0.153	0.176	0.169	0.169	10.55	3.22	1.95	0.290
4	1950	18.00	0.243	77.73	25.41	0.083	0.095	0.128	0.128	10.55	3.22	1.95	0.219
5	1952	22.62	0.185	76.95	24.97	0.052	0.058	0.102	0.102	10.55	3.22	1.95	0.175
6	1963	22.50	0.172	76.36	24.64	0.050	0.056	0.102	0.102	10.55	3.22	1.95	0.175
7	1964	22.23	0.161	78.21	25.67	0.049	0.056	0.103	0.103	10.55	3.22	1.95	0.178
8	1985	22.03	0.152	77.57	25.32	0.049	0.055	0.104	0.104	10.55	3.22	1.95	0.179
9	2047	21.82	0.169	76.76	24.87	0.052	0.058	0.105	0.105	10.55	3.22	1.95	0.181
10	2053	21.42	0.183	76.22	24.56	0.056	0.062	0.107	0.107	10.55	3.22	1.95	0.184
11	2057	21.14	0.199	75.86	24.37	0.059	0.066	0.109	0.109	10.55	3.22	1.95	0.187
12	2060	26.78	0.164	75.62	24.23	0.038	0.042	0.086	0.086	10.55	3.22	1.95	0.147
13	2063	32.50	0.143	75.46	24.14	0.026	0.029	0.071	0.071	10.55	3.22	1.95	0.121
14	2066	29.92	0.139	75.34	24.08	0.029	0.032	0.077	0.077	10.55	3.22	1.95	0.132
15	2069	27.33	0.138	75.25	24.03	0.034	0.037	0.084	0.084	10.55	3.22	1.95	0.144
16	2072	24.74	0.139	75.18	23.99	0.039	0.043	0.093	0.093	10.55	3.22	1.95	0.160
17	2075	22.51	0.142	75.13	23.96	0.046	0.050	0.102	0.102	10.55	3.22	1.95	0.175

* $K2_{20} = 12.9V^{.5}/D^{1.5}$

** $K2_T = K2_{20}(1.024^{(T-20)})$

2.3/D = minimum K2 without wind effects

V_W(10m) = wind velocity at the standard 10 meter height

V_{WS}(0.3m) = surface wind velocity ~ velocity at a height of about 1 ft = $(.3 \text{ m}/10 \text{ m})^{1/7}$

MAX $K2_{20}$ = O'Connor-Dobbins or minimum K2, whichever is greater

Wind aided $K2_{20} = K2_{20}(1+0.2395V_{WS}^{1.643})$

JUNE WIND AIDED REAERATION CALCULATIONS													
REACH	AVG FLOW	AVG DEPTH (D)	AVG VELOCITY (V)	AVG TEMP	AVG TEMP (T)	$K2_{20}$ = O'CONNOR-DOBBINS	$K2_T$	$K2_{20}$ = 2.3/H	MAX $K2_{20}$	V_W(10m)	V_W(10m)	V_{WS}(0.3m)	WIND AIDED $K2_{20}$
	(cfs)	(ft)	(fps)	(^oF)	(^oC)	(1/d)	(1/d)	(1/d)	(1/d)	(fps)	(mps)	(mps)	(1/d)
1	1051	15.68	0.166	74.25	23.47	0.085	0.092	0.147	0.147	8.67	2.64	1.60	0.223
2	1130	14.62	0.191	76.68	24.82	0.101	0.113	0.157	0.157	8.67	2.64	1.60	0.239
3	1205	13.53	0.223	78.75	25.97	0.122	0.141	0.170	0.170	8.67	2.64	1.60	0.258
4	1212	17.87	0.152	77.73	25.41	0.067	0.076	0.129	0.129	8.67	2.64	1.60	0.195
5	1215	22.53	0.116	76.95	24.97	0.041	0.046	0.102	0.102	8.67	2.64	1.60	0.155
6	1219	22.45	0.107	76.36	24.64	0.040	0.044	0.102	0.102	8.67	2.64	1.60	0.156
7	1214	22.19	0.100	78.21	25.67	0.039	0.045	0.104	0.104	8.67	2.64	1.60	0.157
8	1237	22.00	0.095	77.57	25.32	0.039	0.044	0.105	0.105	8.67	2.64	1.60	0.159
9	1308	21.81	0.108	76.76	24.87	0.042	0.047	0.105	0.105	8.67	2.64	1.60	0.160
10	1315	21.41	0.117	76.22	24.56	0.045	0.050	0.107	0.107	8.67	2.64	1.60	0.163
11	1318	21.13	0.127	75.86	24.37	0.047	0.053	0.109	0.109	8.67	2.64	1.60	0.165
12	1321	26.76	0.105	75.62	24.23	0.030	0.033	0.086	0.086	8.67	2.64	1.60	0.131
13	1324	32.48	0.092	75.46	24.14	0.021	0.023	0.071	0.071	8.67	2.64	1.60	0.108
14	1327	29.91	0.089	75.34	24.08	0.024	0.026	0.077	0.077	8.67	2.64	1.60	0.117
15	1330	27.33	0.089	75.25	24.03	0.027	0.030	0.084	0.084	8.67	2.64	1.60	0.128
16	1333	24.74	0.090	75.18	23.99	0.031	0.035	0.093	0.093	8.67	2.64	1.60	0.141
17	1336	22.51	0.092	75.13	23.96	0.037	0.040	0.102	0.102	8.67	2.64	1.60	0.155

* $K2_{20} = 12.9V^{.5}/D^{1.5}$

** $K2_T = K2_{20}(1.024^{(T-20)})$

2.3/D = minimum K2 without wind effects

V_W(10m) = wind velocity at the standard 10 meter height

V_{WS}(0.3m) = surface wind velocity ~ velocity at a height of about 1 ft = $(.3\ m/10\ m)^{1/7}$

MAX $K2_{20}$ = O'Connor-Dobbins or minimum K2, whichever is greater

Wind aided $K2_{20} = K2_{20}(1+0.2395V_{WS}^{1.643})$

JULY WIND AIDED REAERATION CALCULATIONS													
REACH	AVG FLOW	AVG DEPTH (D)	AVG VELOCITY (V)	AVG TEMP	AVG TEMP (T)	$K2_{20}$ = O'CONNOR-DOBBINS	$K2_T$	$K2_{20}$ = 2.3/H	MAX $K2_{20}$	V_W(10m)	V_W(10m)	V_{WS}(0.3m)	WIND AIDED $K2_{20}$
	(cfs)	(ft)	(fps)	(^oF)	(^oC)	(1/d)	(1/d)	(1/d)	(1/d)	(fps)	(mps)	(mps)	(1/d)
1	896	15.64	0.142	74.25	23.47	0.079	0.085	0.147	0.147	7.24	2.21	1.34	0.204
2	927	14.59	0.157	76.68	24.82	0.092	0.103	0.158	0.158	7.24	2.21	1.34	0.219
3	975	13.49	0.181	78.75	25.97	0.111	0.128	0.170	0.170	7.24	2.21	1.34	0.236
4	981	17.81	0.124	77.73	25.41	0.060	0.069	0.129	0.129	7.24	2.21	1.34	0.179
5	984	22.49	0.094	76.95	24.97	0.037	0.042	0.102	0.102	7.24	2.21	1.34	0.142
6	987	22.43	0.087	76.36	24.64	0.036	0.040	0.103	0.103	7.24	2.21	1.34	0.142
7	981	22.18	0.081	78.21	25.67	0.035	0.040	0.104	0.104	7.24	2.21	1.34	0.144
8	1000	21.99	0.077	77.57	25.32	0.035	0.039	0.105	0.105	7.24	2.21	1.34	0.145
9	1049	21.80	0.087	76.76	24.87	0.037	0.042	0.105	0.105	7.24	2.21	1.34	0.146
10	1056	21.40	0.094	76.22	24.56	0.040	0.045	0.107	0.107	7.24	2.21	1.34	0.149
11	1059	21.12	0.102	75.86	24.37	0.043	0.047	0.109	0.109	7.24	2.21	1.34	0.151
12	1062	26.75	0.085	75.62	24.23	0.027	0.030	0.086	0.086	7.24	2.21	1.34	0.119
13	1065	32.48	0.074	75.46	24.14	0.019	0.021	0.071	0.071	7.24	2.21	1.34	0.098
14	1068	29.91	0.072	75.34	24.08	0.021	0.023	0.077	0.077	7.24	2.21	1.34	0.107
15	1071	27.33	0.071	75.25	24.03	0.024	0.027	0.084	0.084	7.24	2.21	1.34	0.117
16	1074	24.74	0.072	75.18	23.99	0.028	0.031	0.093	0.093	7.24	2.21	1.34	0.129
17	1077	22.51	0.074	75.13	23.96	0.033	0.036	0.102	0.102	7.24	2.21	1.34	0.142

* $K2_{20} = 12.9V^5/D^{1.5}$

** $K2_T = K2_{20}(1.024^{(T-20)})$

2.3/D = minimum K2 without wind effects

V_W(10m) = wind velocity at the standard 10 meter height

V_{WS}(0.3m) = surface wind velocity ~ velocity at a height of about 1 ft = $(.3 \text{ m}/10 \text{ m})^{1/7}$

MAX $K2_{20}$ = O'Connor-Dobbins or minimum K2, whichever is greater

Wind aided $K2_{20} = K2_{20}(1+0.2395V_{WS}^{1.643})$

AUGUST WIND AIDED REAERATION CALCULATIONS													
REACH	AVG FLOW	AVG DEPTH (D)	AVG VELOCITY (V)	AVG TEMP	AVG TEMP (T)	$K2_{20}$ = O'CONNOR-DOBBINS	$K2_T$	$K2_{20}$ = 2.3/H	MAX $K2_{20}$	V_W(10m)	V_W(10m)	V_{WS}(0.3m)	WIND AIDED $K2_{20}$
	(cfs)	(ft)	(fps)	(^oF)	(^oC)	(1/d)	(1/d)	(1/d)	(1/d)	(fps)	(mps)	(mps)	(1/d)
1	804	15.61	0.128	90.90	32.72	0.075	0.101	0.147	0.147	6.77	2.06	1.25	0.198
2	826	14.56	0.140	93.43	34.13	0.087	0.122	0.158	0.158	6.77	2.06	1.25	0.213
3	870	13.47	0.162	95.39	35.21	0.105	0.151	0.171	0.171	6.77	2.06	1.25	0.230
4	876	17.78	0.111	93.59	34.22	0.057	0.080	0.129	0.129	6.77	2.06	1.25	0.174
5	879	22.47	0.084	92.28	33.49	0.035	0.048	0.102	0.102	6.77	2.06	1.25	0.138
6	882	22.41	0.078	91.33	32.96	0.034	0.046	0.103	0.103	6.77	2.06	1.25	0.138
7	876	22.17	0.072	93.18	33.99	0.033	0.046	0.104	0.104	6.77	2.06	1.25	0.140
8	894	21.98	0.069	92.24	33.47	0.033	0.045	0.105	0.105	6.77	2.06	1.25	0.141
9	941	21.80	0.078	90.97	32.76	0.035	0.048	0.106	0.106	6.77	2.06	1.25	0.142
10	948	21.39	0.085	90.43	32.46	0.038	0.051	0.108	0.108	6.77	2.06	1.25	0.145
11	951	21.12	0.092	90.10	32.28	0.040	0.054	0.109	0.109	6.77	2.06	1.25	0.147
12	954	26.75	0.076	89.90	32.16	0.026	0.034	0.086	0.086	6.77	2.06	1.25	0.116
13	957	32.48	0.066	89.75	32.09	0.018	0.024	0.071	0.071	6.77	2.06	1.25	0.095
14	960	29.91	0.065	89.65	32.03	0.020	0.027	0.077	0.077	6.77	2.06	1.25	0.103
15	963	27.33	0.064	89.57	31.98	0.023	0.030	0.084	0.084	6.77	2.06	1.25	0.113
16	966	24.74	0.065	89.51	31.95	0.027	0.035	0.093	0.093	6.77	2.06	1.25	0.125
17	969	22.51	0.067	89.47	31.93	0.031	0.041	0.102	0.102	6.77	2.06	1.25	0.137

* $K2_{20} = 12.9V^5/D^{1.5}$

** $K2_T = K2_{20}(1.024^{(T-20)})$

2.3/D = minimum K2 without wind effects

V_W(10m) = wind velocity at the standard 10 meter height

V_{WS}(0.3m) = surface wind velocity ~ velocity at a height of about 1 ft = $(.3 \text{ m}/10 \text{ m})^{1/7}$

MAX $K2_{20}$ = O'Connor-Dobbins or minimum K2, whichever is greater

Wind aided $K2_{20} = K2_{20}(1+0.2395V_{WS}^{1.643})$

SEPTEMBER WIND AIDED REAERATION CALCULATIONS													
REACH	AVG FLOW	AVG DEPTH (D)	AVG VELOCITY (V)	AVG TEMP	AVG TEMP (T)	$K2_{20}$ = O'CONNOR-DOBBINS	$K2_T$	$K2_{20}$ = 2.3/H	MAX $K2_{20}$	V_W(10m)	V_W(10m)	V_{WS}(0.3m)	WIND AIDED $K2_{20}$
	(cfs)	(ft)	(fps)	(^oF)	(^oC)	(1/d)	(1/d)	(1/d)	(1/d)	(fps)	(mps)	(mps)	(1/d)
1	831	15.62	0.132	85.13	29.52	0.076	0.095	0.147	0.147	7.91	2.41	1.46	0.213
2	849	14.57	0.144	88.93	31.63	0.088	0.116	0.158	0.158	7.91	2.41	1.46	0.228
3	891	13.48	0.166	92.12	33.40	0.106	0.146	0.171	0.171	7.91	2.41	1.46	0.247
4	898	17.79	0.114	90.44	32.47	0.058	0.078	0.129	0.129	7.91	2.41	1.46	0.187
5	901	22.47	0.087	89.14	31.75	0.036	0.047	0.102	0.102	7.91	2.41	1.46	0.148
6	905	22.42	0.080	88.13	31.18	0.034	0.045	0.103	0.103	7.91	2.41	1.46	0.148
7	898	22.17	0.074	90.44	32.46	0.034	0.045	0.104	0.104	7.91	2.41	1.46	0.150
8	917	21.98	0.071	89.48	31.93	0.033	0.044	0.105	0.105	7.91	2.41	1.46	0.151
9	964	21.80	0.080	87.98	31.10	0.036	0.047	0.106	0.106	7.91	2.41	1.46	0.153
10	971	21.39	0.087	87.24	30.69	0.038	0.050	0.108	0.108	7.91	2.41	1.46	0.155
11	974	21.12	0.094	86.74	30.41	0.041	0.052	0.109	0.109	7.91	2.41	1.46	0.158
12	977	26.75	0.078	86.39	30.22	0.026	0.033	0.086	0.086	7.91	2.41	1.46	0.124
13	980	32.48	0.068	86.15	30.08	0.018	0.023	0.071	0.071	7.91	2.41	1.46	0.102
14	983	29.91	0.066	85.95	29.97	0.020	0.026	0.077	0.077	7.91	2.41	1.46	0.111
15	986	27.33	0.066	85.79	29.88	0.023	0.029	0.084	0.084	7.91	2.41	1.46	0.122
16	989	24.74	0.067	85.66	29.81	0.027	0.034	0.093	0.093	7.91	2.41	1.46	0.134
17	992	22.51	0.068	85.58	29.77	0.032	0.040	0.102	0.102	7.91	2.41	1.46	0.148

* $K2_{20} = 12.9V^{.5}/D^{1.5}$

** $K2_T = K2_{20}(1.024^{(T-20)})$

2.3/D = minimum K2 without wind effects

V_W(10m) = wind velocity at the standard 10 meter height

V_{WS}(0.3m) = surface wind velocity ~ velocity at a height of about 1 ft = $(.3\ m/10\ m)^{1/7}$

MAX $K2_{20}$ = O'Connor-Dobbins or minimum K2, whichever is greater

Wind aided $K2_{20} = K2_{20}(1+0.2395V_{WS}^{1.643})$

NOVEMBER WIND AIDED REAERATION CALCULATIONS													
REACH	AVG FLOW	AVG DEPTH (D)	AVG VELOCITY (V)	AVG TEMP	AVG TEMP (T)	$K2_{20}$ = O'CONNOR-DOBBINS	$K2_T$	$K2_{20}$ = 2.3/H	MAX $K2_{20}$	V_W(10m)	V_W(10m)	V_{WS}(0.3m)	WIND AIDED $K2_{20}$
	(cfs)	(ft)	(fps)	(^oF)	(^oC)	(1/d)	(1/d)	(1/d)	(1/d)	(fps)	(mps)	(mps)	(1/d)
1	1233	15.72	0.194	74.25	23.47	0.091	0.099	0.146	0.146	8.71	2.66	1.61	0.223
2	1261	14.65	0.213	76.68	24.82	0.106	0.119	0.157	0.157	8.71	2.66	1.61	0.239
3	1312	13.54	0.242	78.75	25.97	0.127	0.147	0.170	0.170	8.71	2.66	1.61	0.259
4	1322	17.89	0.166	77.73	25.41	0.069	0.079	0.129	0.129	8.71	2.66	1.61	0.196
5	1325	22.55	0.127	76.95	24.97	0.043	0.048	0.102	0.102	8.71	2.66	1.61	0.155
6	1329	22.46	0.117	76.36	24.64	0.041	0.046	0.102	0.102	8.71	2.66	1.61	0.156
7	1322	22.20	0.108	78.21	25.67	0.041	0.046	0.104	0.104	8.71	2.66	1.61	0.158
8	1343	22.01	0.103	77.57	25.32	0.040	0.046	0.105	0.105	8.71	2.66	1.61	0.159
9	1403	21.81	0.116	76.76	24.87	0.043	0.048	0.105	0.105	8.71	2.66	1.61	0.161
10	1410	21.41	0.126	76.22	24.56	0.046	0.051	0.107	0.107	8.71	2.66	1.61	0.164
11	1413	21.13	0.137	75.86	24.37	0.049	0.054	0.109	0.109	8.71	2.66	1.61	0.166
12	1416	26.76	0.113	75.62	24.23	0.031	0.035	0.086	0.086	8.71	2.66	1.61	0.131
13	1419	32.49	0.098	75.46	24.14	0.022	0.024	0.071	0.071	8.71	2.66	1.61	0.108
14	1422	29.91	0.096	75.34	24.08	0.024	0.027	0.077	0.077	8.71	2.66	1.61	0.117
15	1425	27.33	0.095	75.25	24.03	0.028	0.031	0.084	0.084	8.71	2.66	1.61	0.128
16	1428	24.74	0.096	75.18	23.99	0.032	0.036	0.093	0.093	8.71	2.66	1.61	0.142
17	1431	22.51	0.098	75.13	23.96	0.038	0.042	0.102	0.102	8.71	2.66	1.61	0.156

* $K2_{20} = 12.9V^{.5}/D^{1.5}$

** $K2_T = K2_{20}(1.024^{(T-20)})$

2.3/D = minimum K2 without wind effects

V_W(10m) = wind velocity at the standard 10 meter height

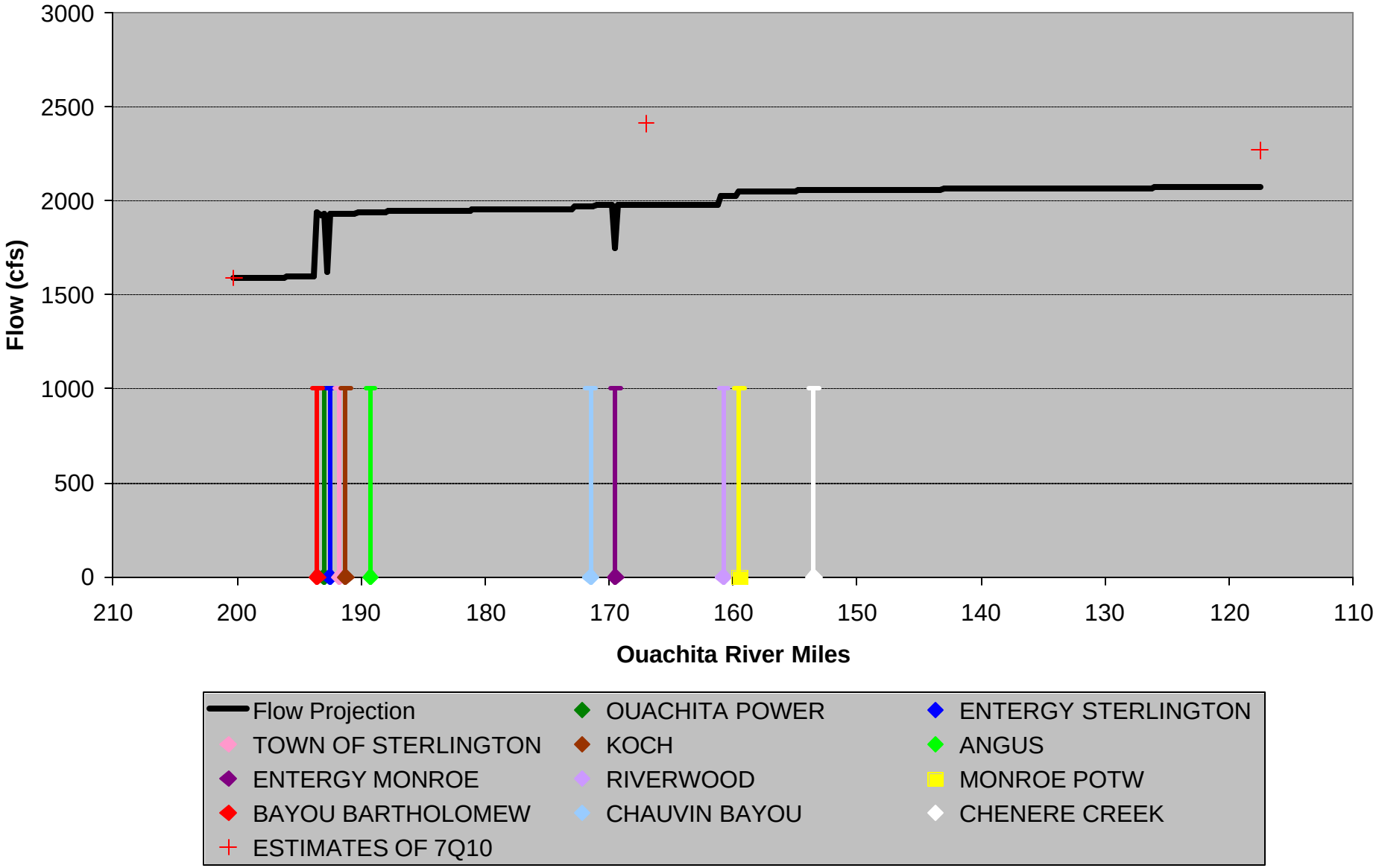
V_{WS}(0.3m) = surface wind velocity ~ velocity at a height of about 1 ft = $(.3\ m/10\ m)^{1/7}$

MAX $K2_{20}$ = O'Connor-Dobbins or minimum K2, whichever is greater

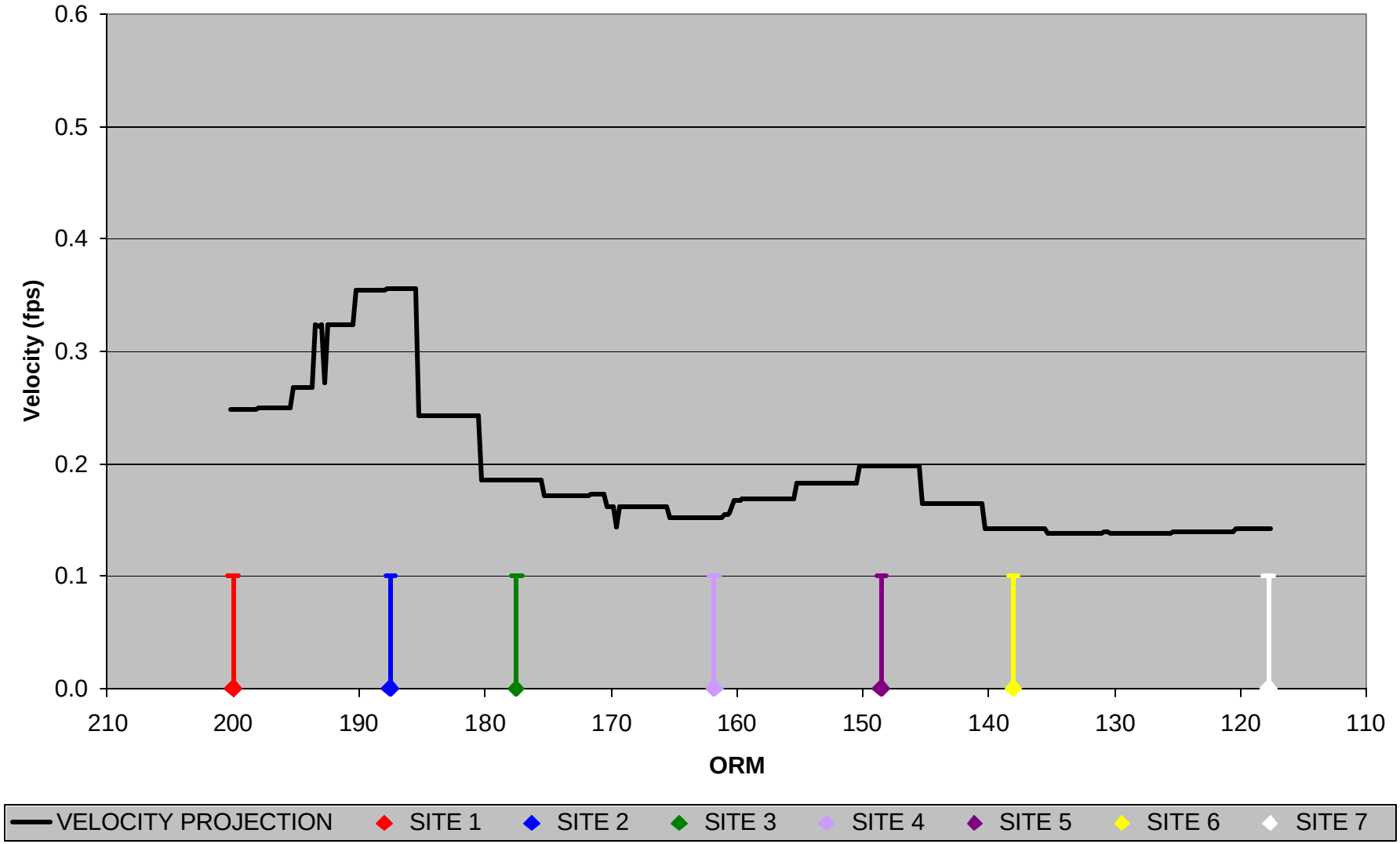
Wind aided $K2_{20} = K2_{20}(1+0.2395V_{WS}^{1.643})$

APPENDIX H - STEADY STATE PROJECTION PLOTS

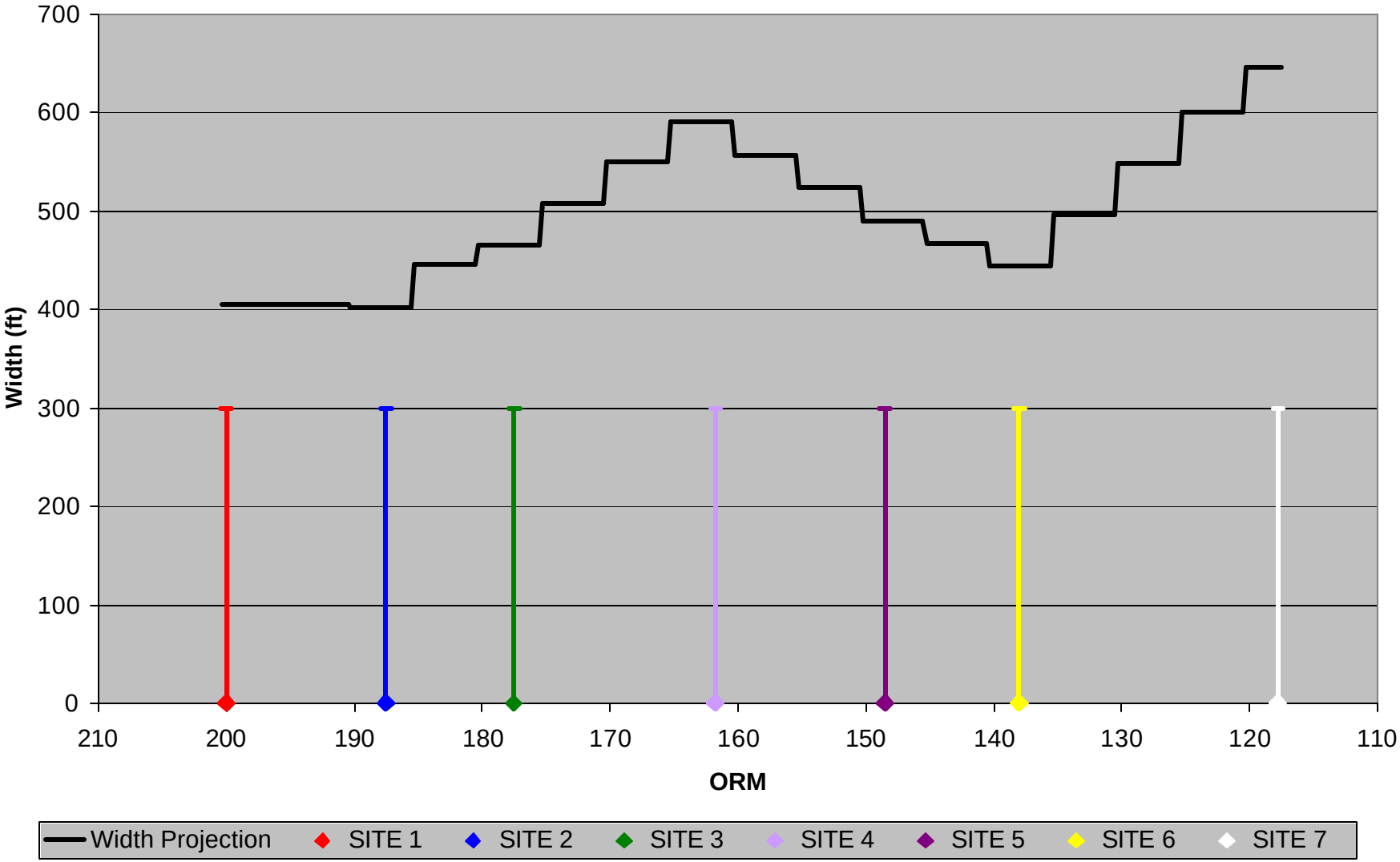
LOWER OUACHITA RIVER MAY FLOW PROJECTION



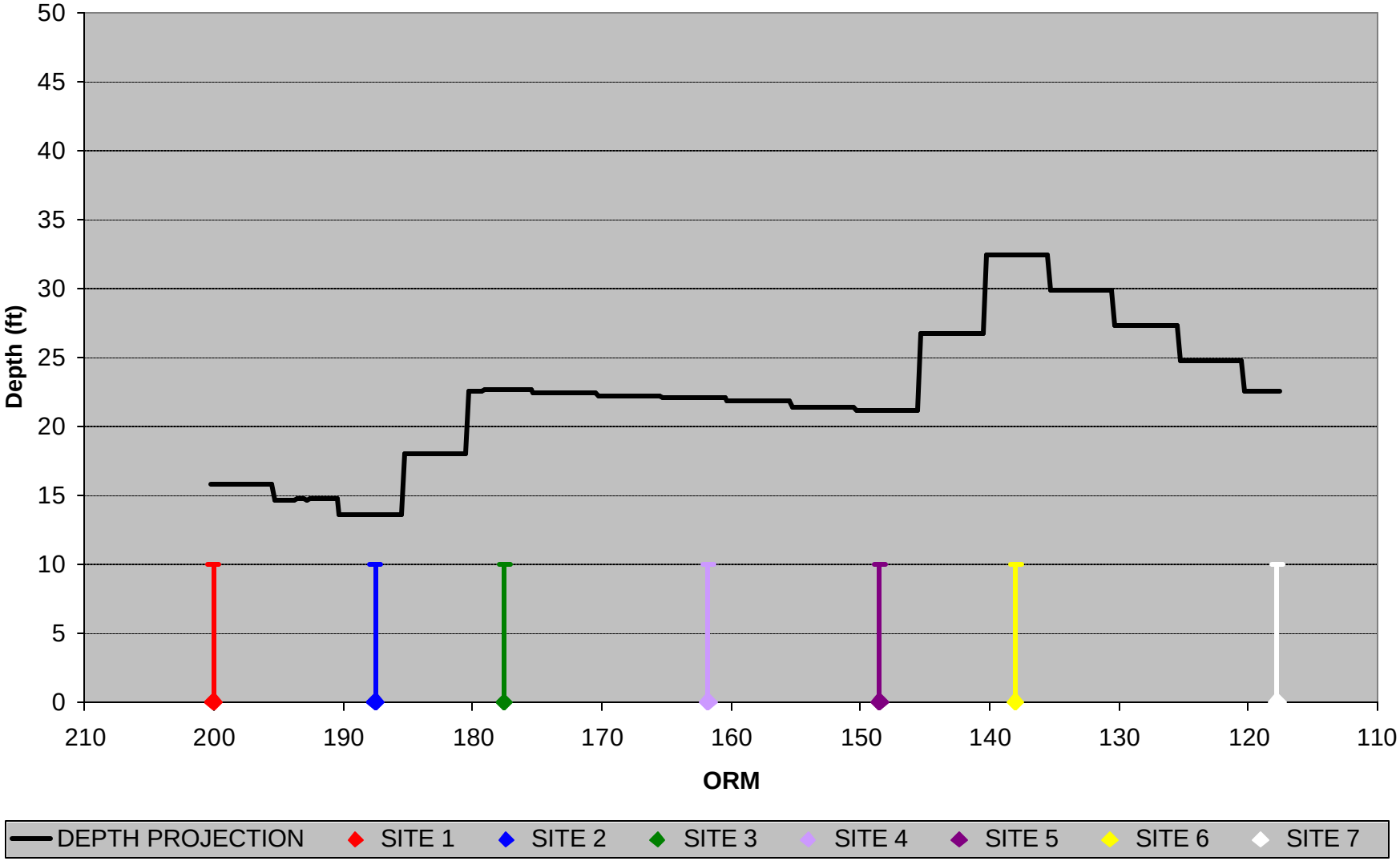
LOWER OUACHITA RIVER MAY VELOCITY PROJECTION



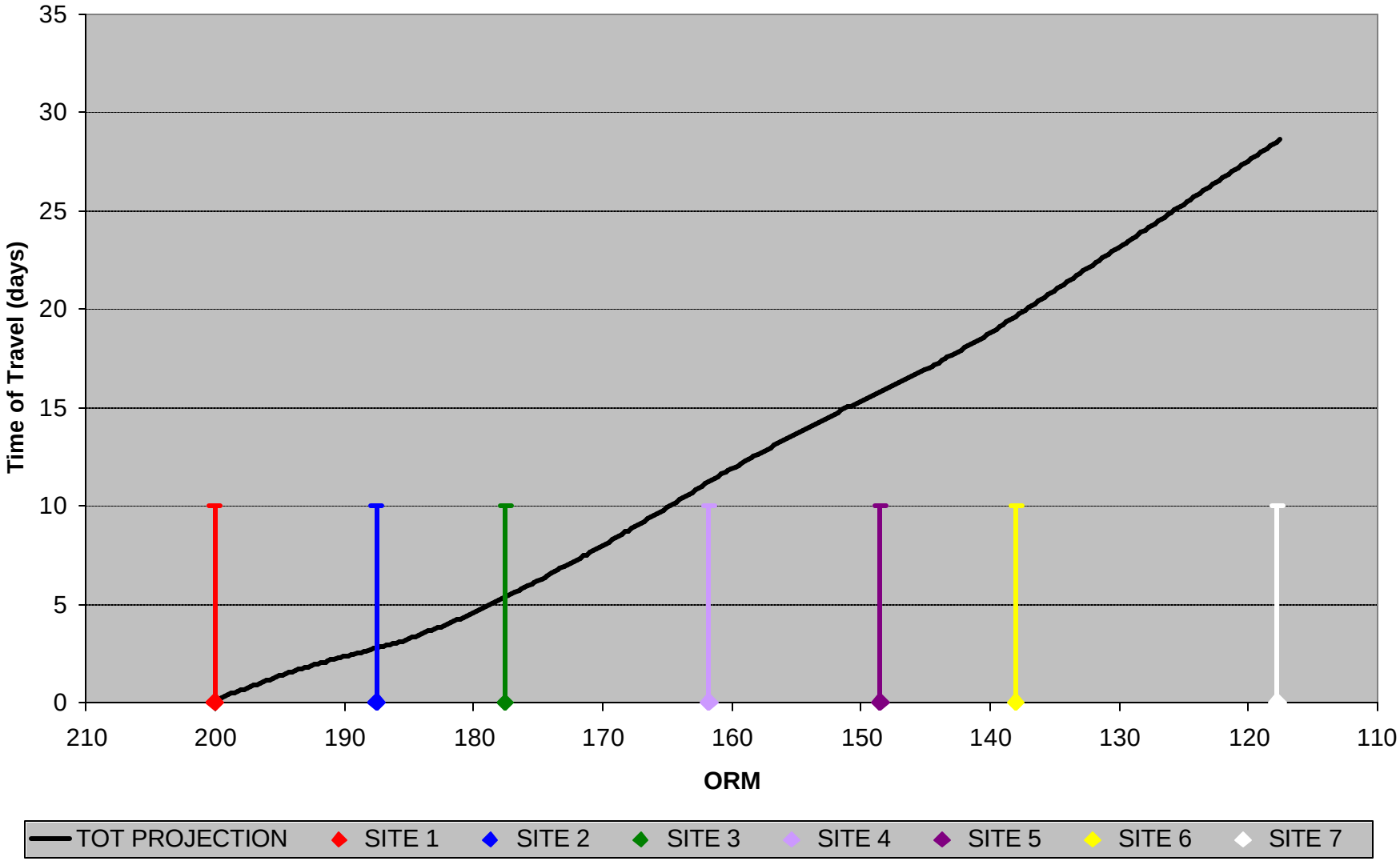
LOWER OUACHITA RIVER MAY WIDTH PROJECTION



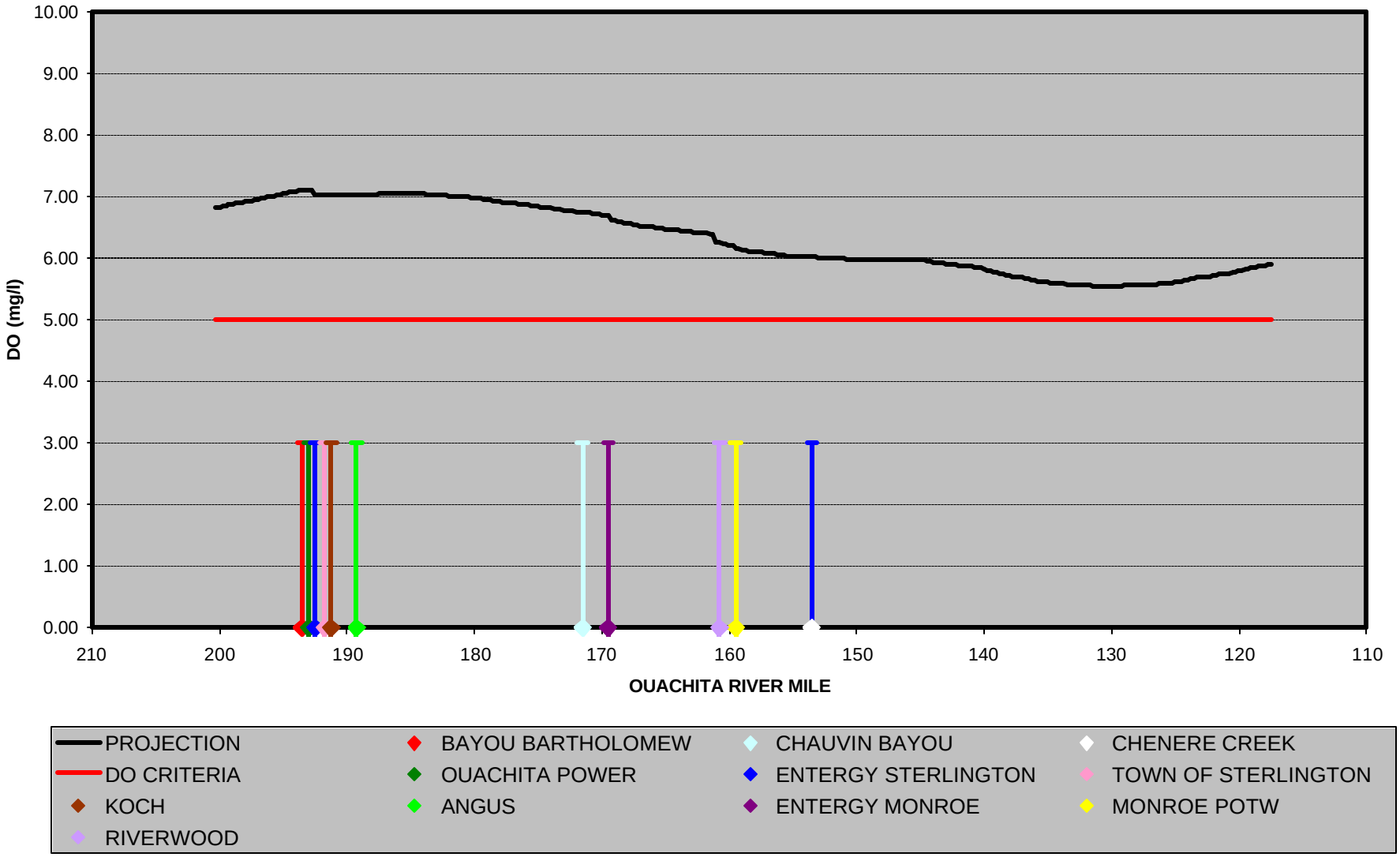
LOWER OUACHITA RIVER MAY DEPTH PROJECTION



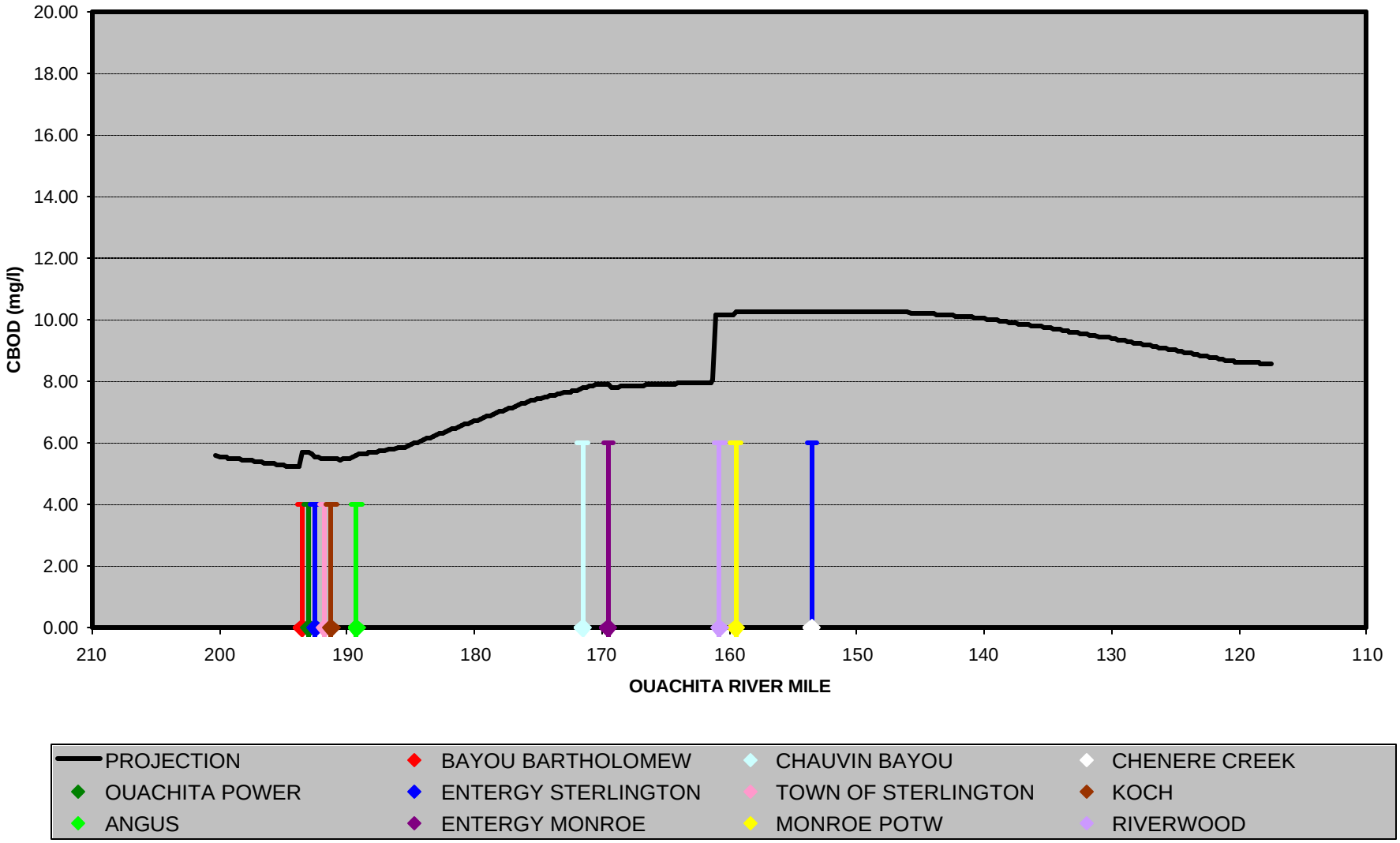
LOWER OUACHITA RIVER MAY TIME OF TRAVEL PROJECTION



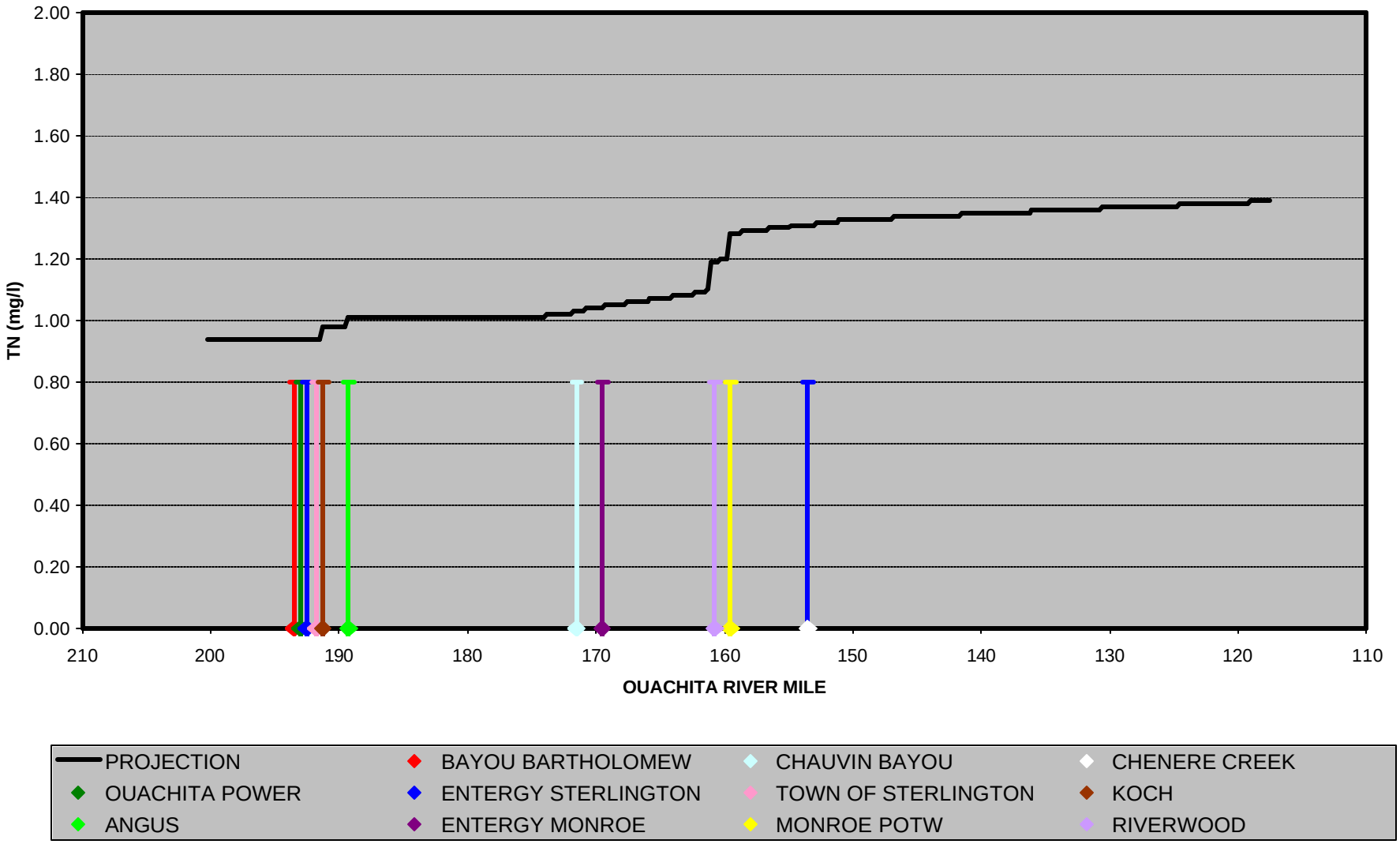
LOWER OUACHITA RIVER MAY DO PROJECTION W/O LOAD REDUCTION



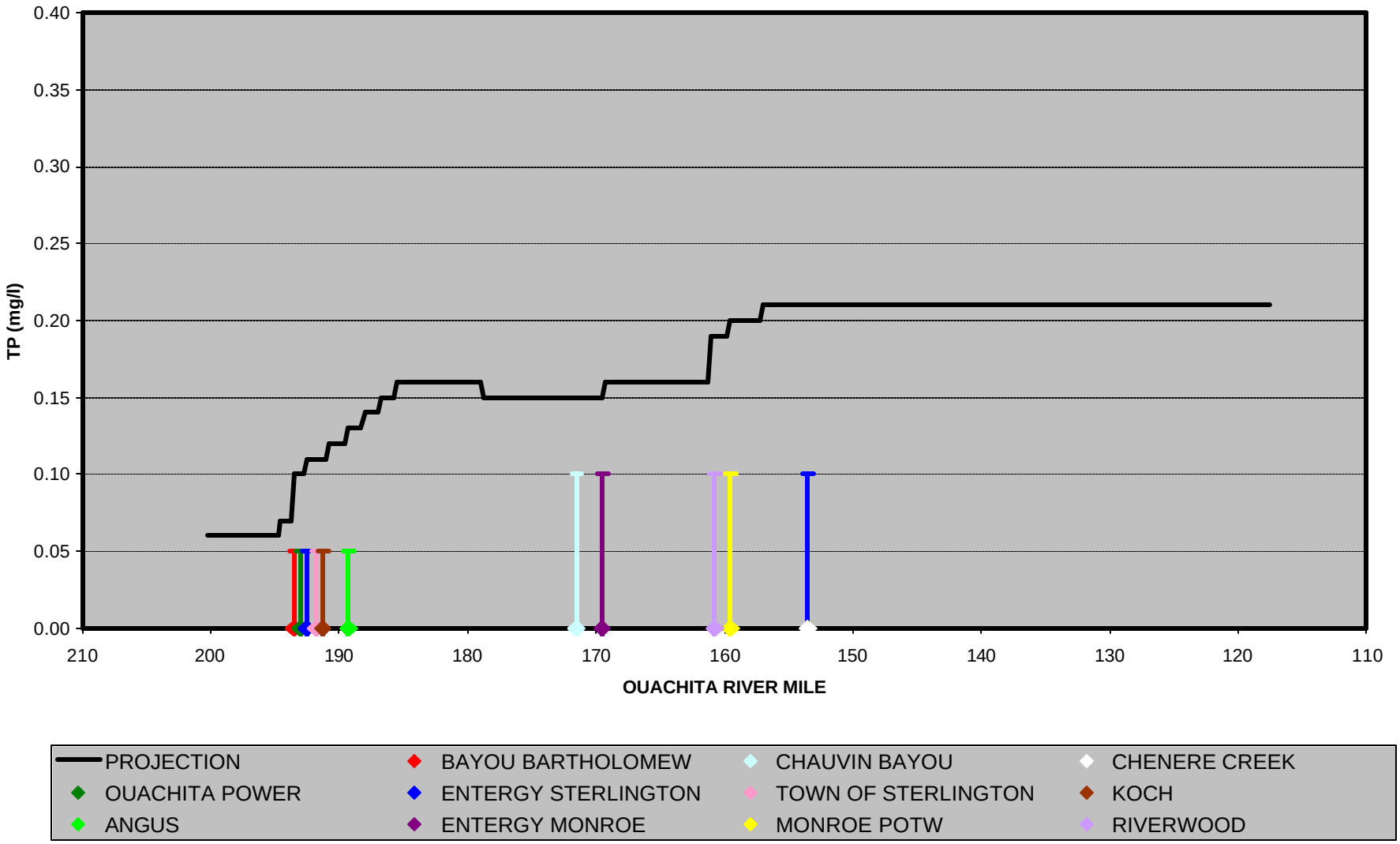
LOWER OUACHITA RIVER MAY CBOD PROJECTION W/O LOAD REDUCTION



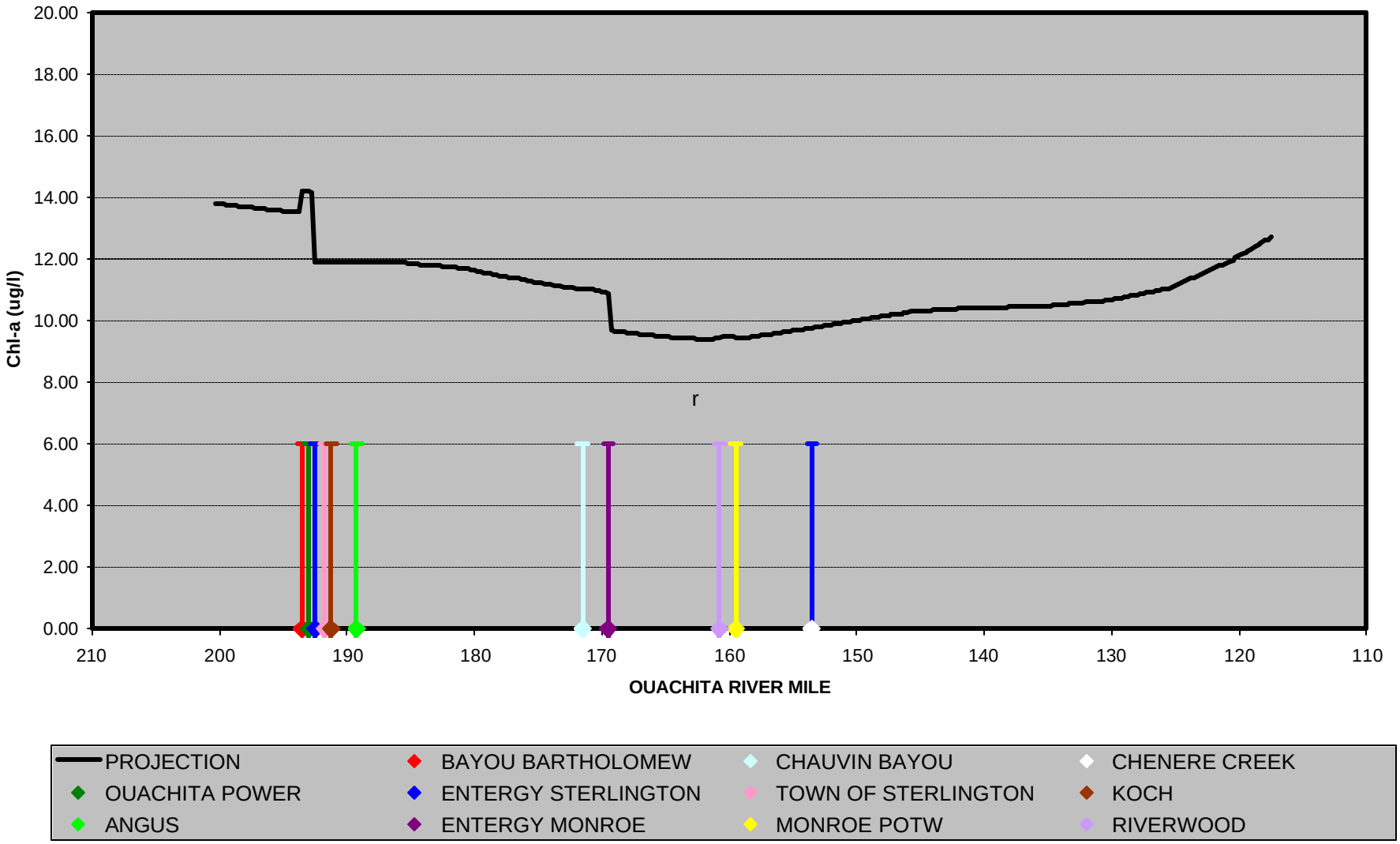
LOWER OUACHITA RIVER MAY TN PROJECTION W/O LOAD REDUCTION



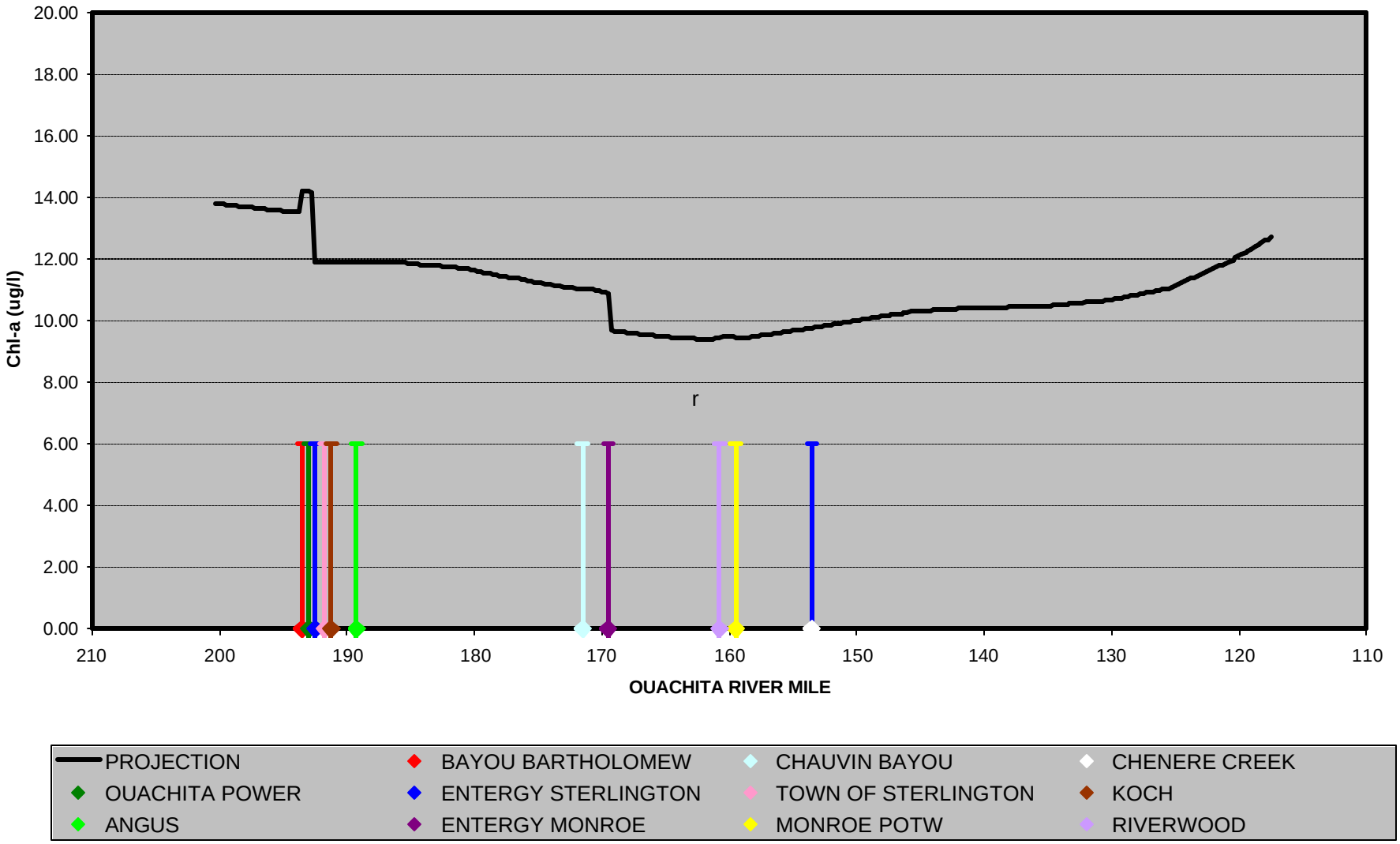
LOWER OUACHITA RIVER MAY TP PROJECTION W/O LOAD REDUCTION



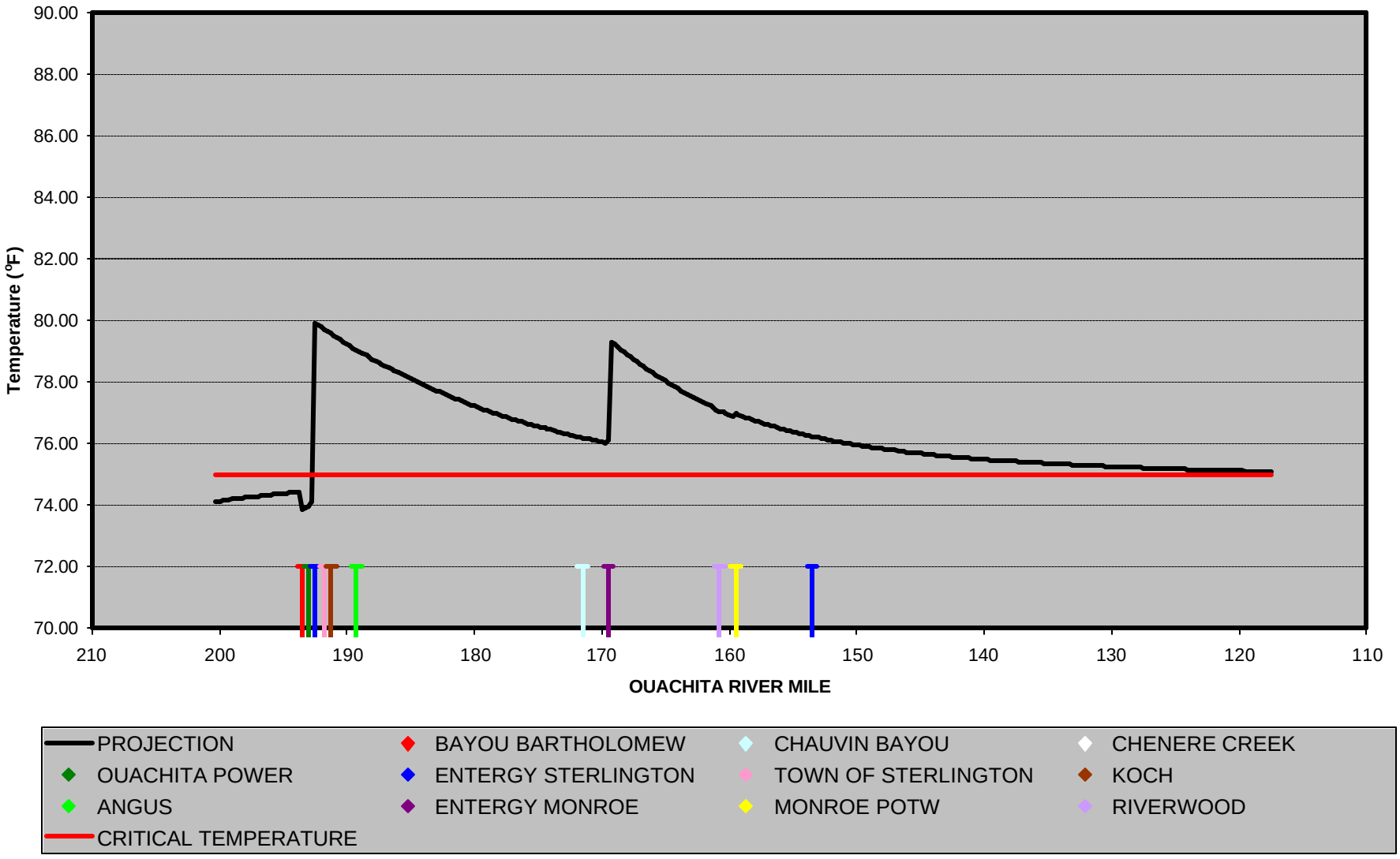
LOWER OUACHITA RIVER MAY CHL-A PROJECTION W/O LOAD REDUCTION



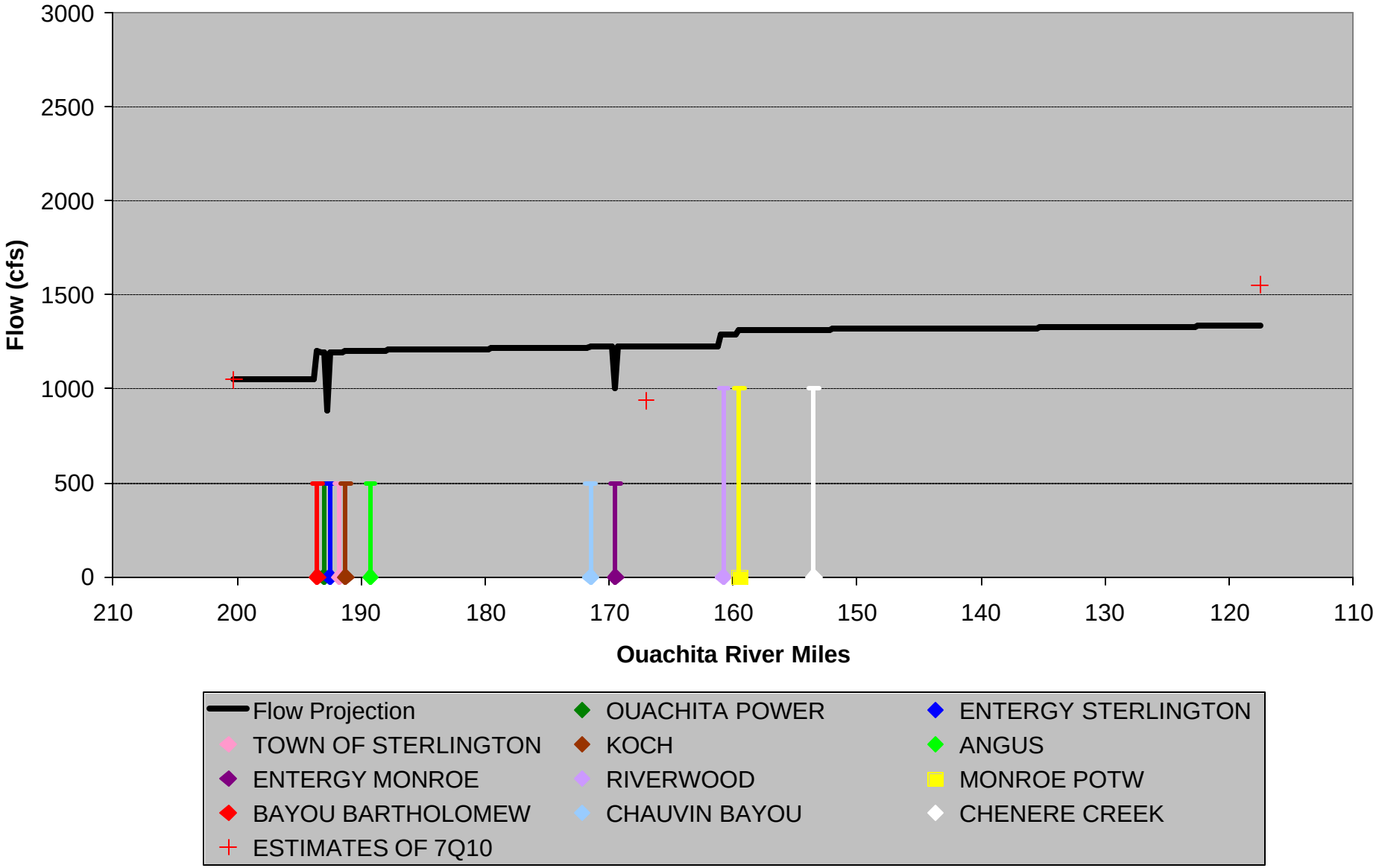
LOWER OUACHITA RIVER MAY CHL-A PROJECTION W/O LOAD REDUCTION



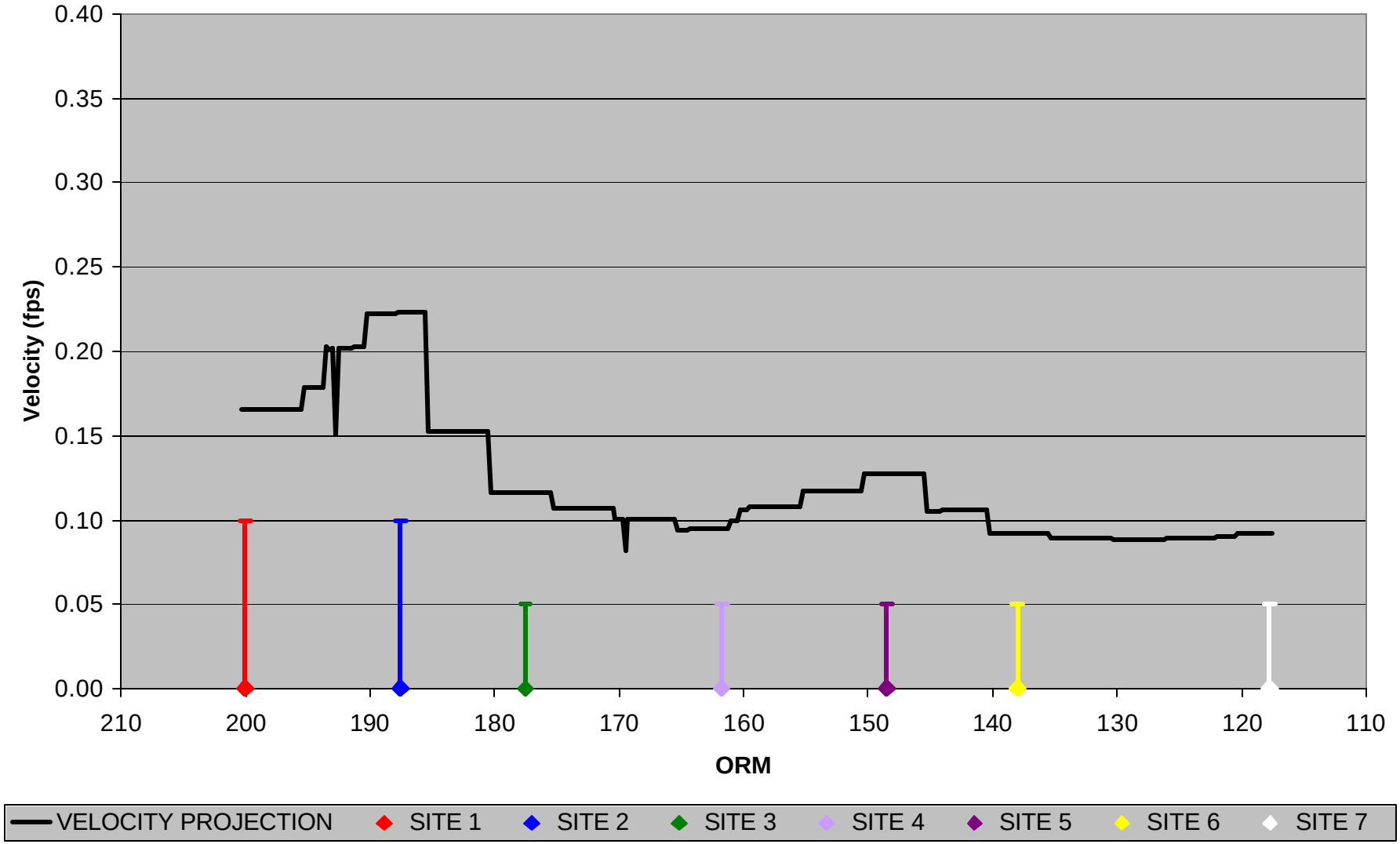
LOWER OUACHITA RIVER MAY TEMPERATURE PROJECTION W/O LOAD REDUCTION



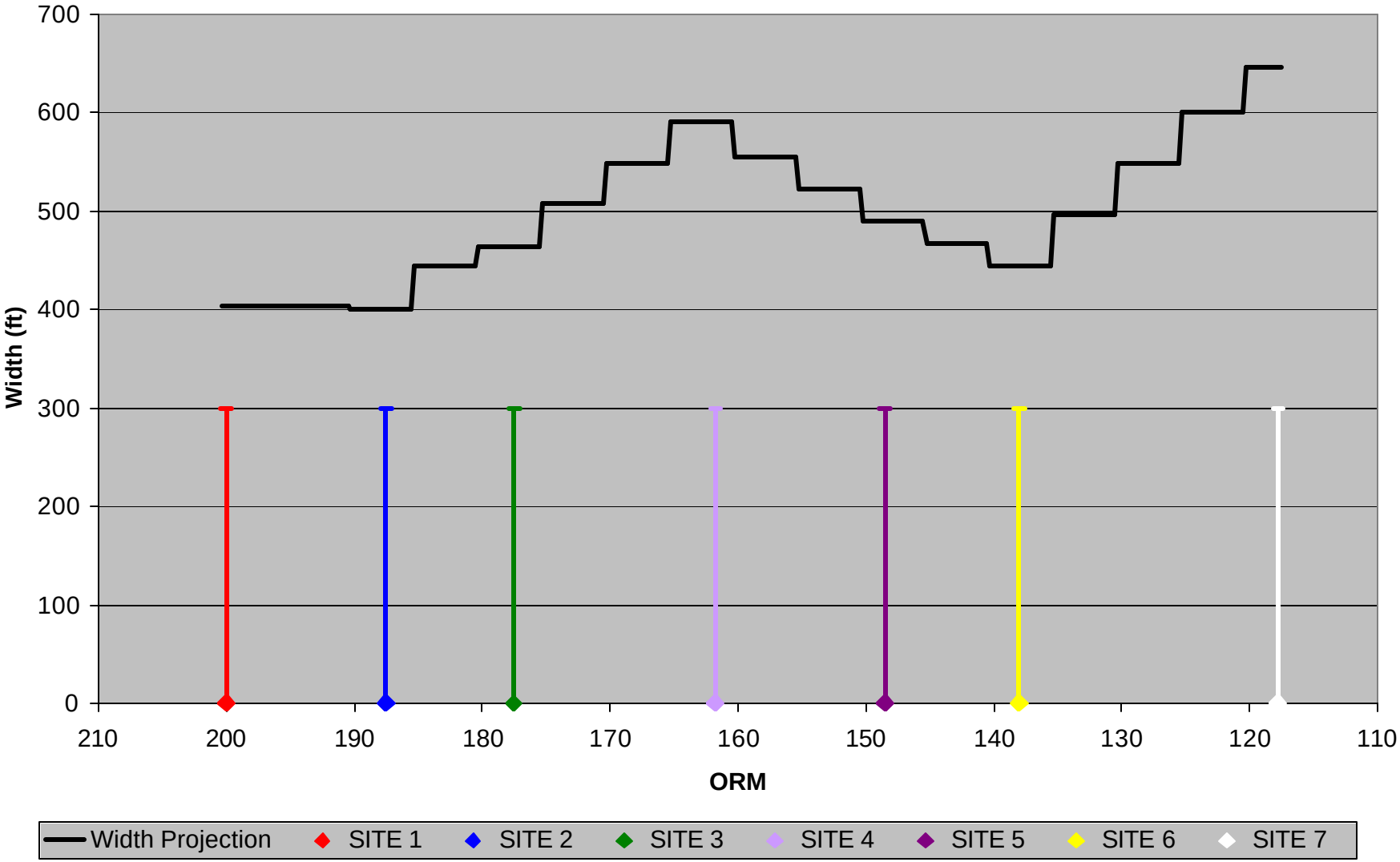
LOWER OUACHITA RIVER JUNE FLOW PROJECTION



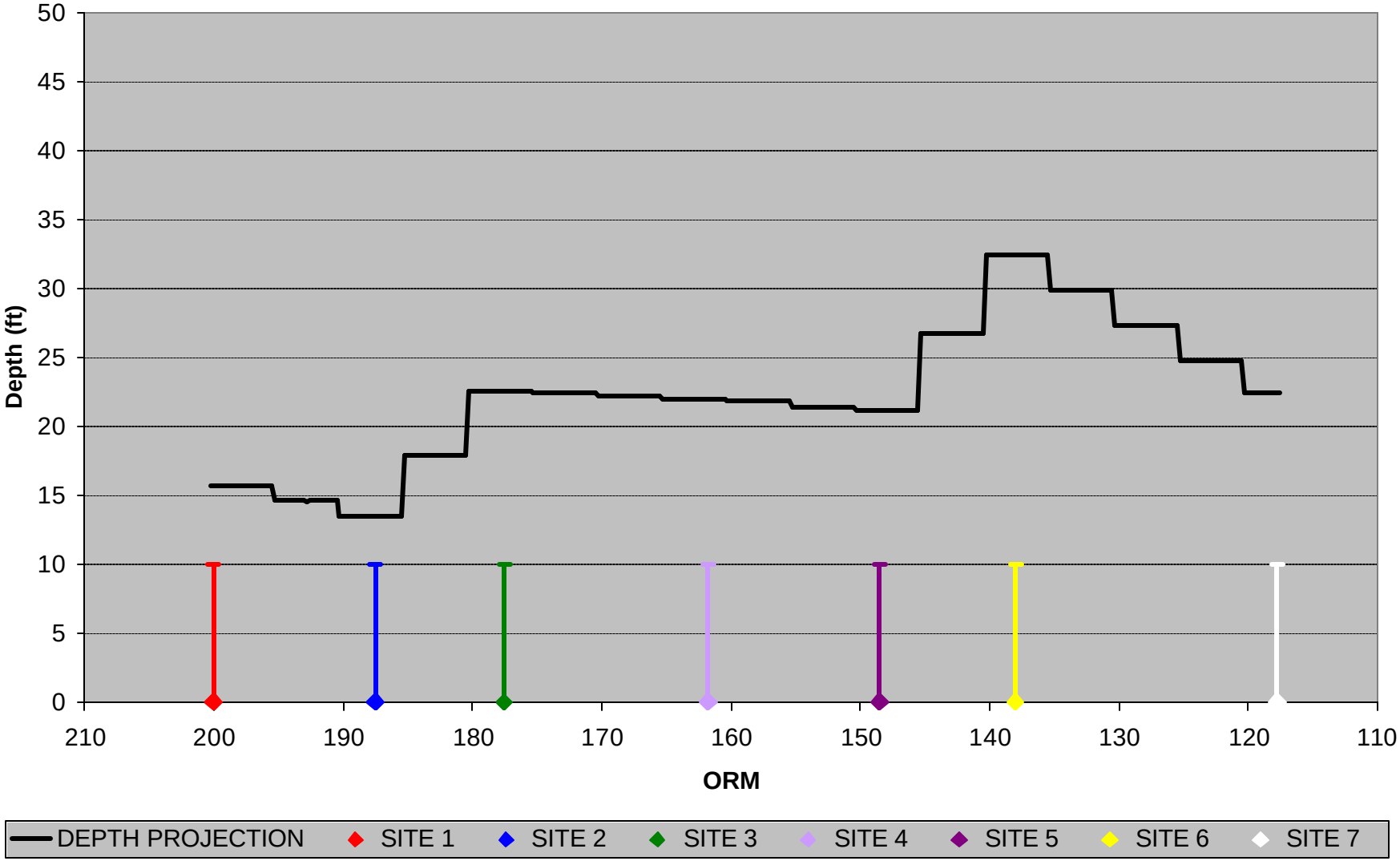
LOWER OUACHITA RIVER JUNE VELOCITY PROJECTION



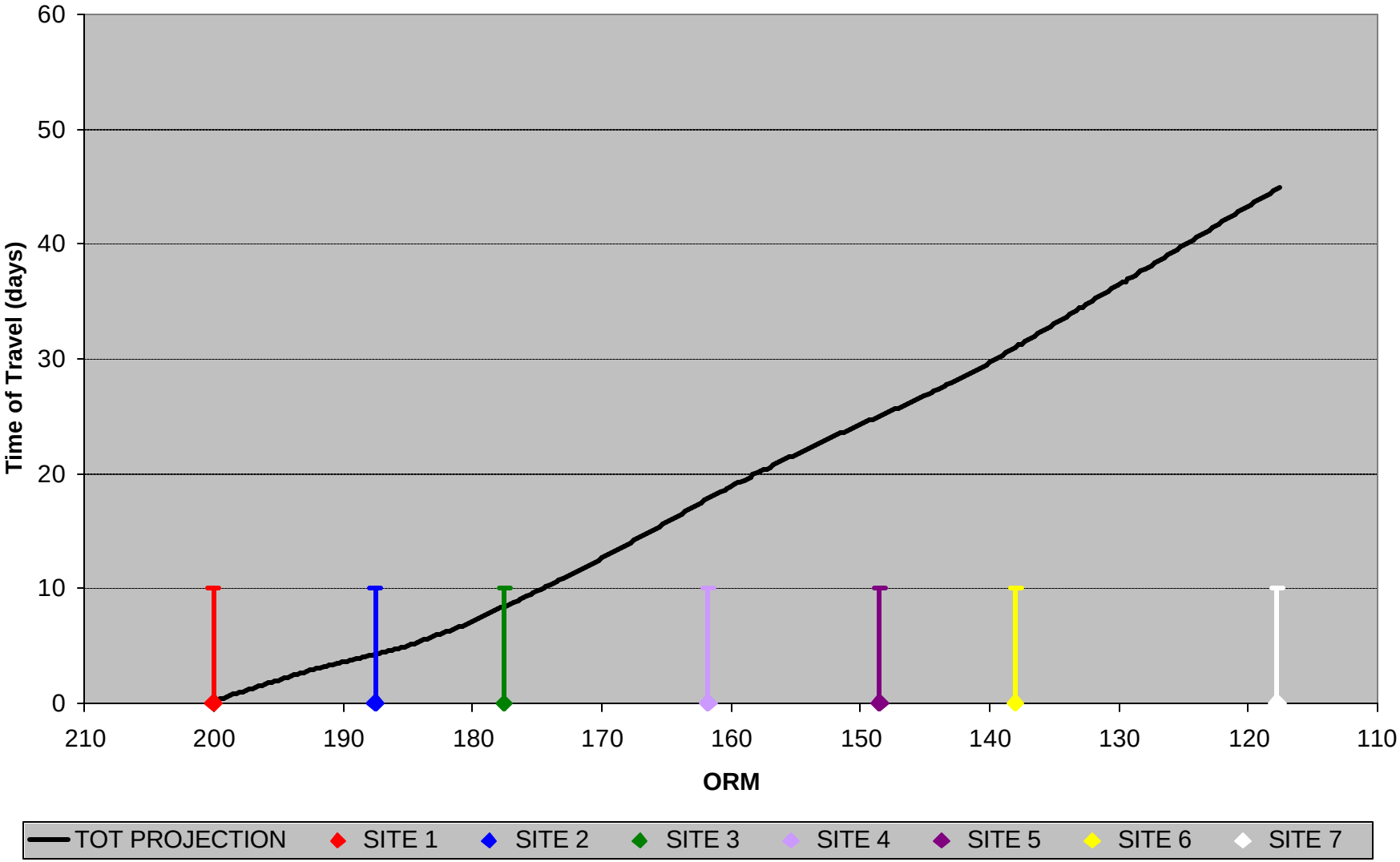
LOWER OUACHITA RIVER JUNE WIDTH PROJECTION



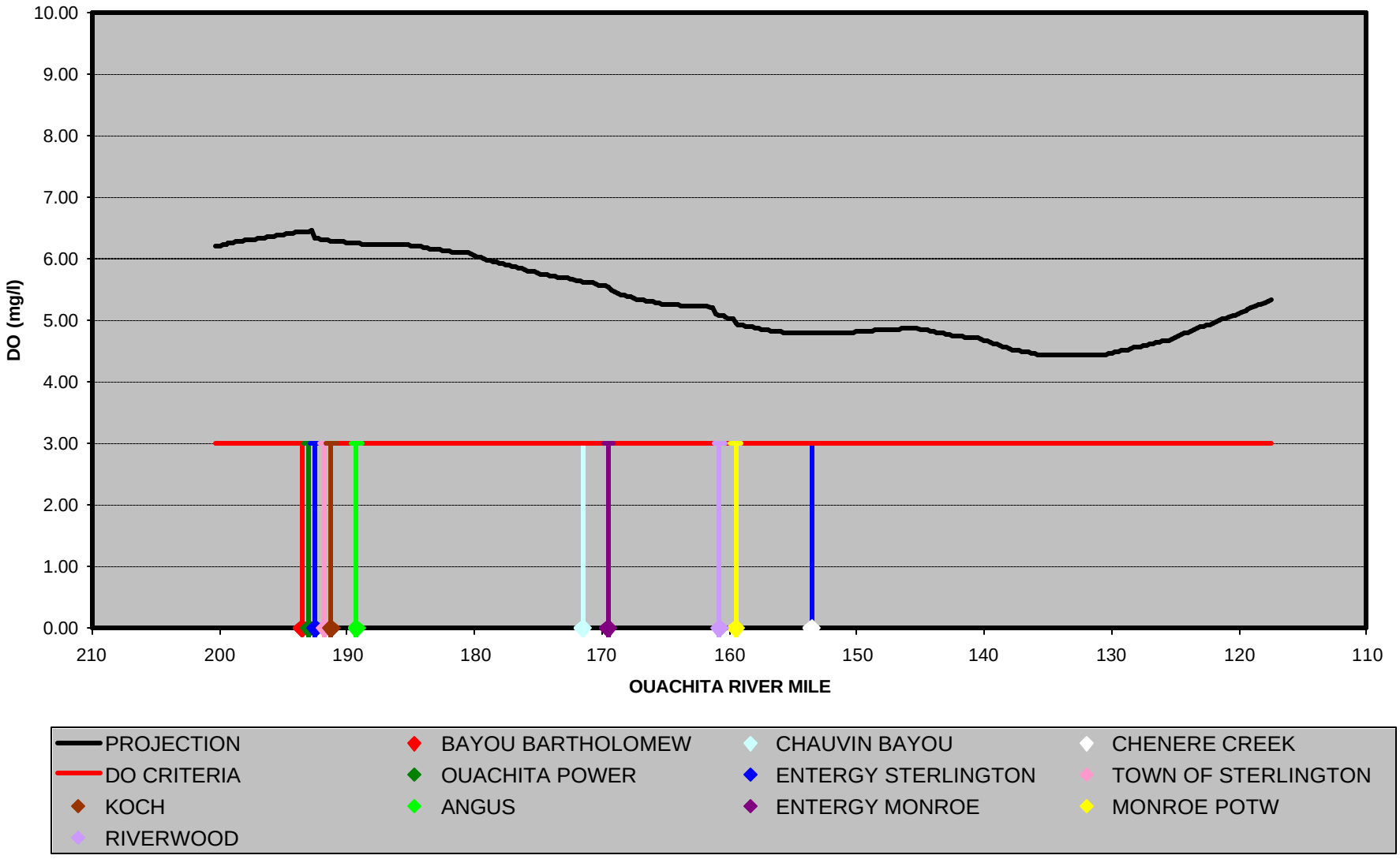
LOWER OUACHITA RIVER JUNE DEPTH PROJECTION



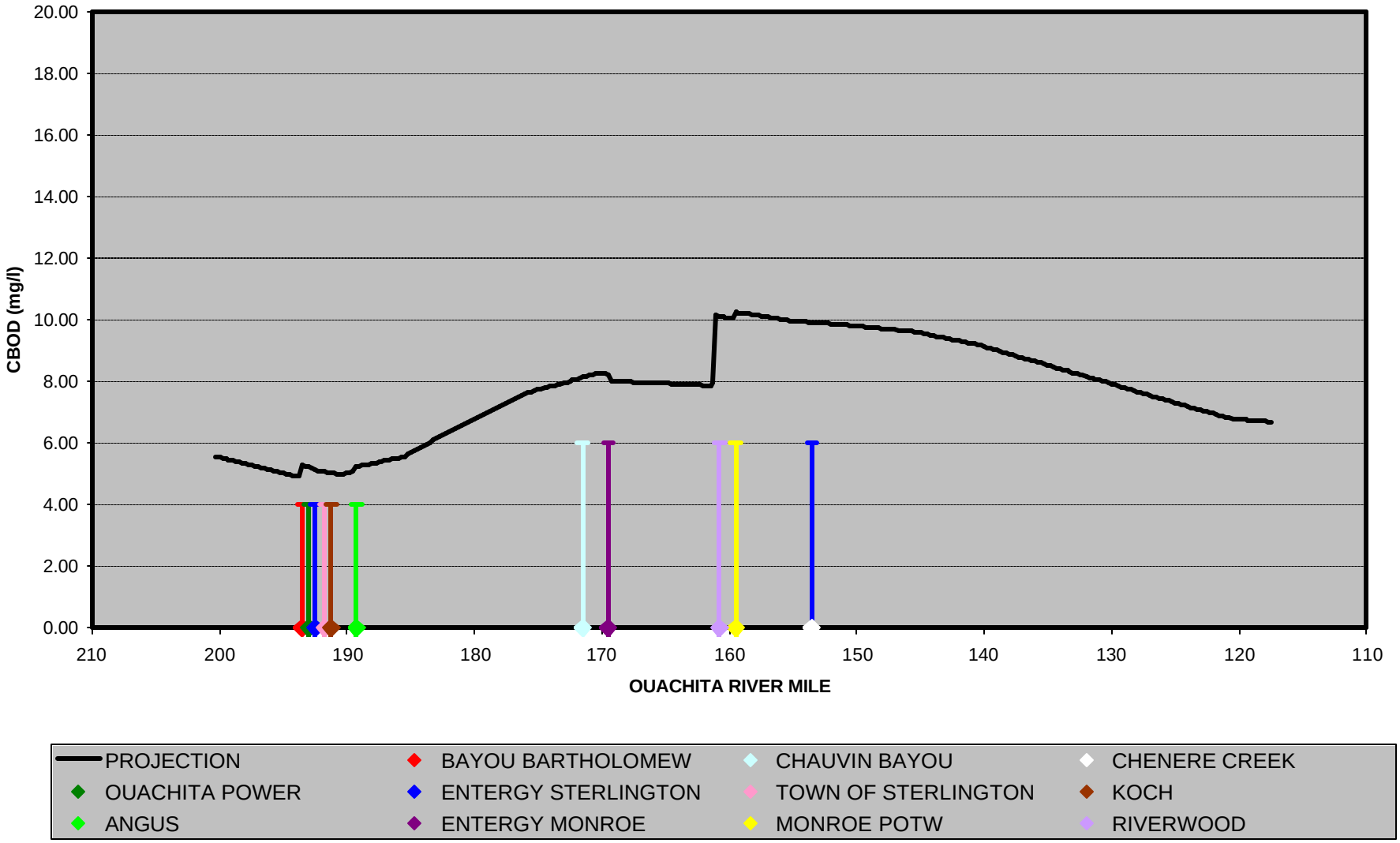
LOWER OUACHITA RIVER JUNE TIME OF TRAVEL PROJECTION



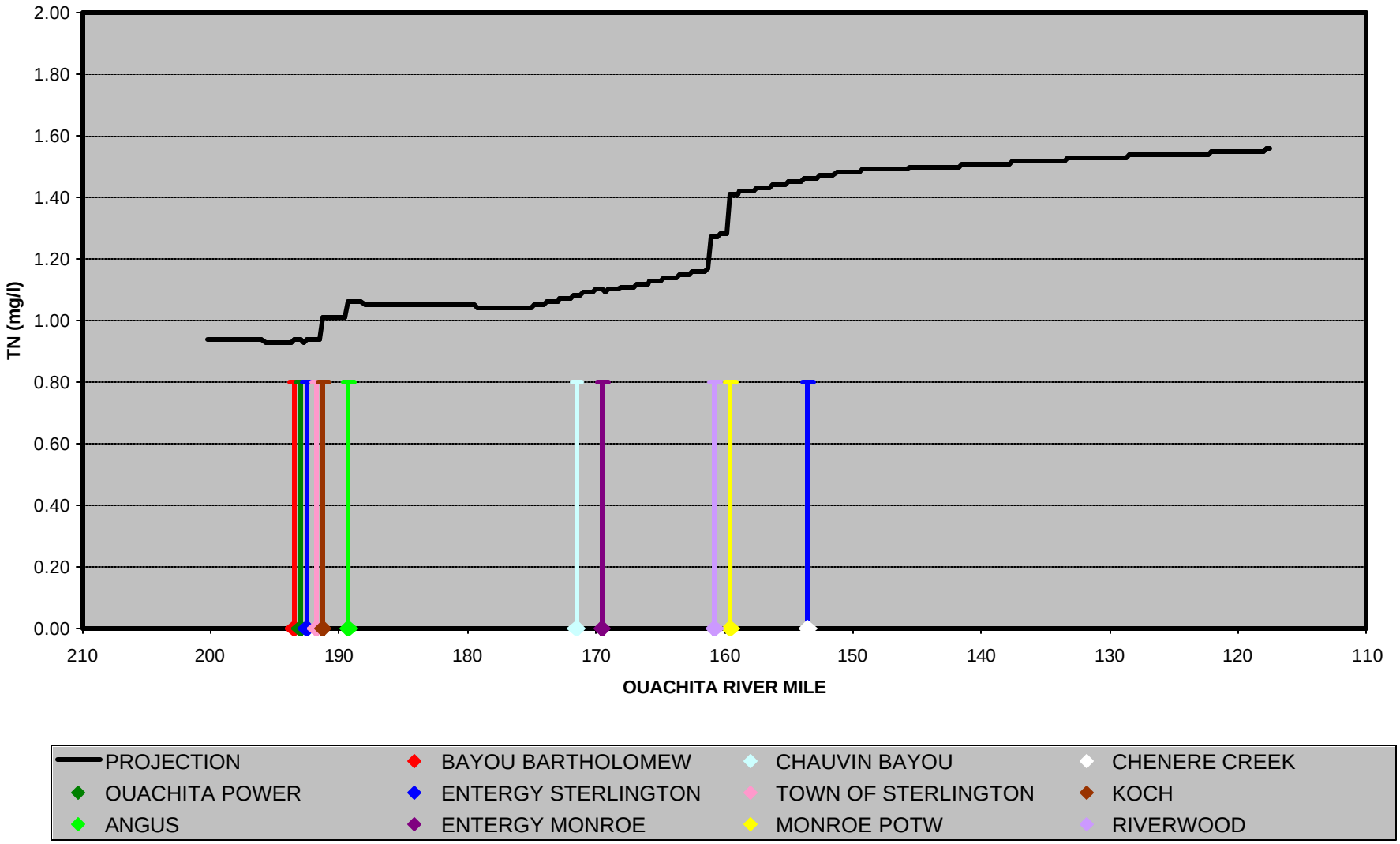
LOWER OUACHITA RIVER JUNE DO PROJECTION W/O LOAD REDUCTION



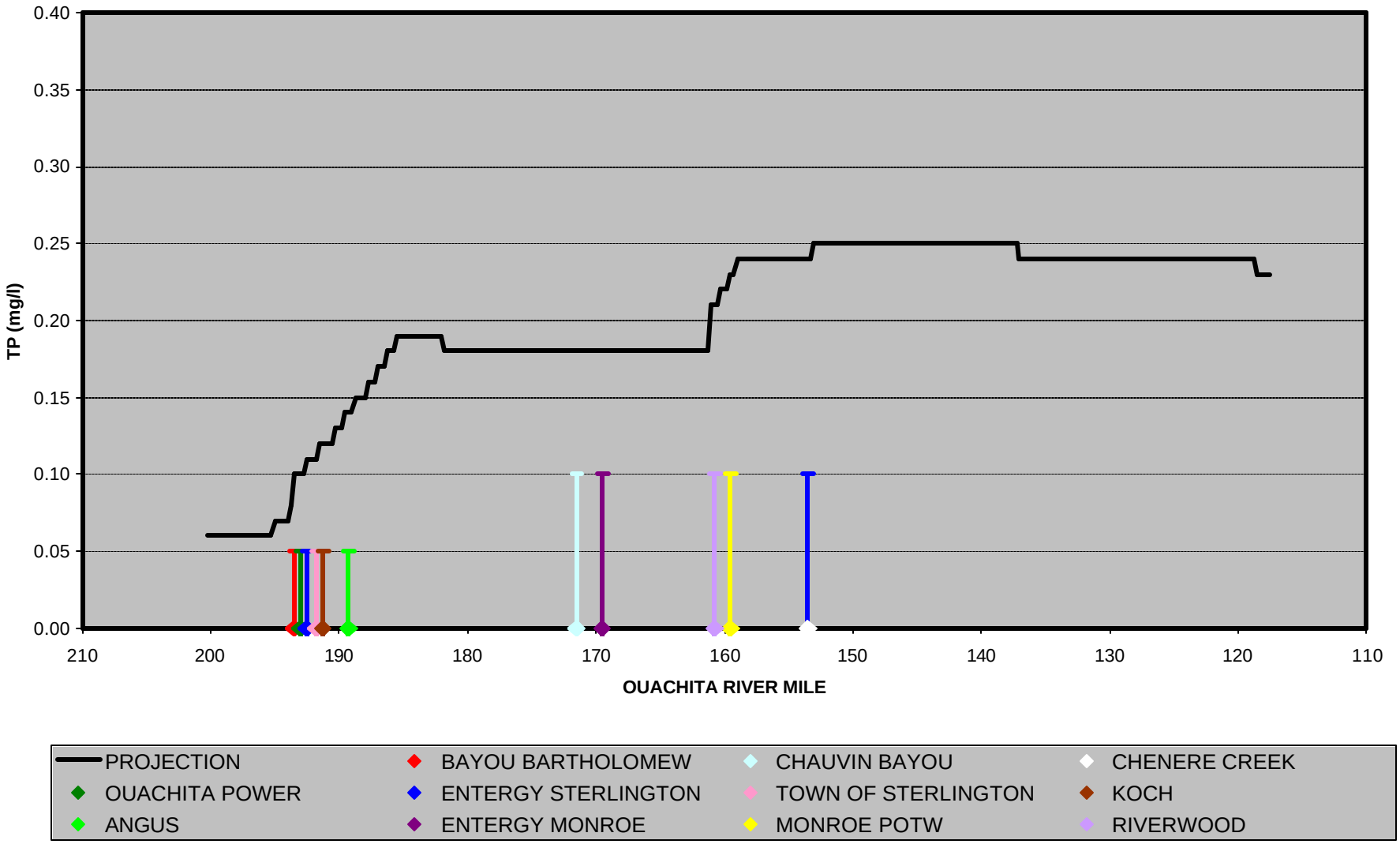
LOWER OUACHITA RIVER JUNE CBOD PROJECTION W/O LOAD REDUCTION



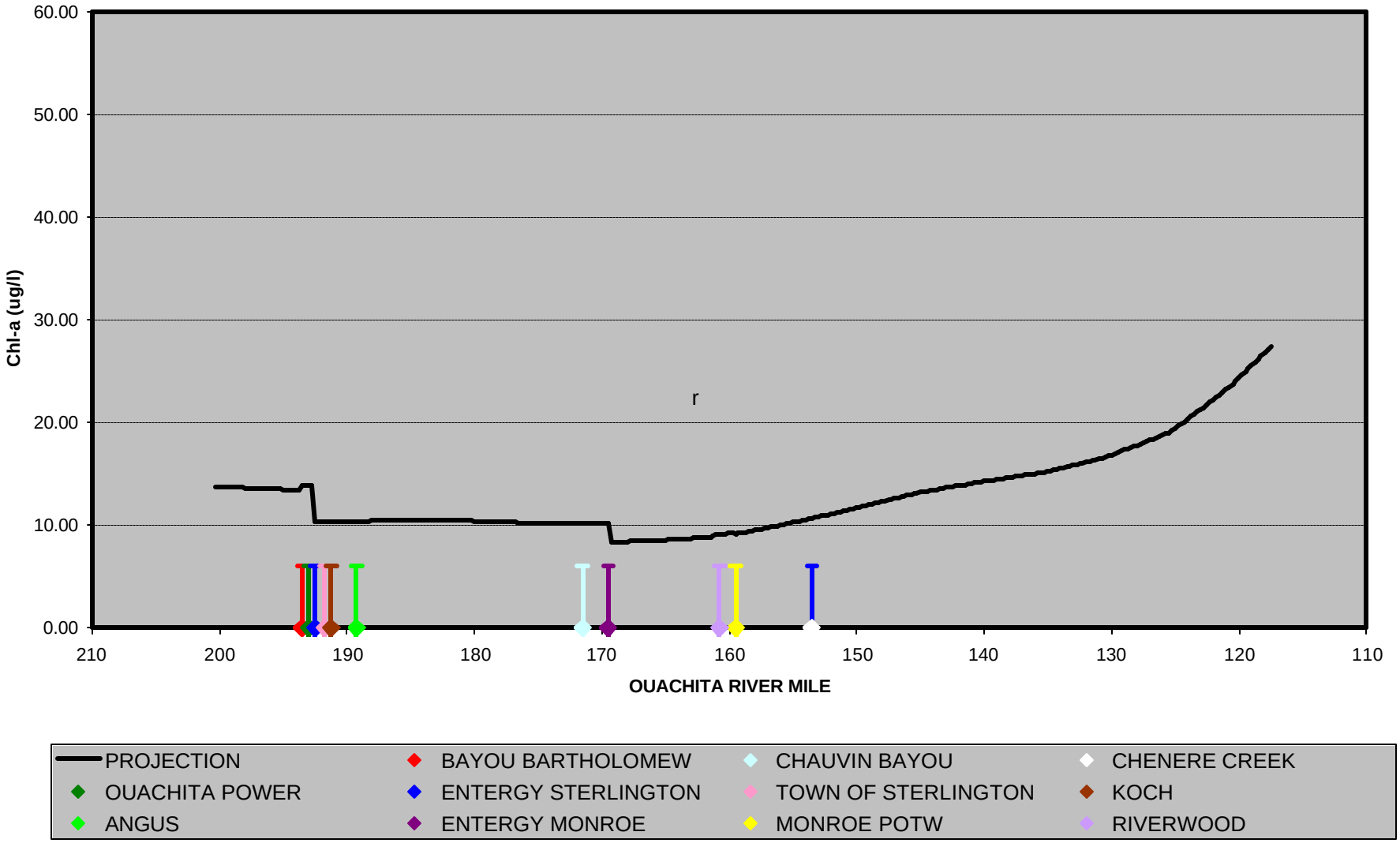
LOWER OUACHITA RIVER JUNE TN PROJECTION W/O LOAD REDUCTION



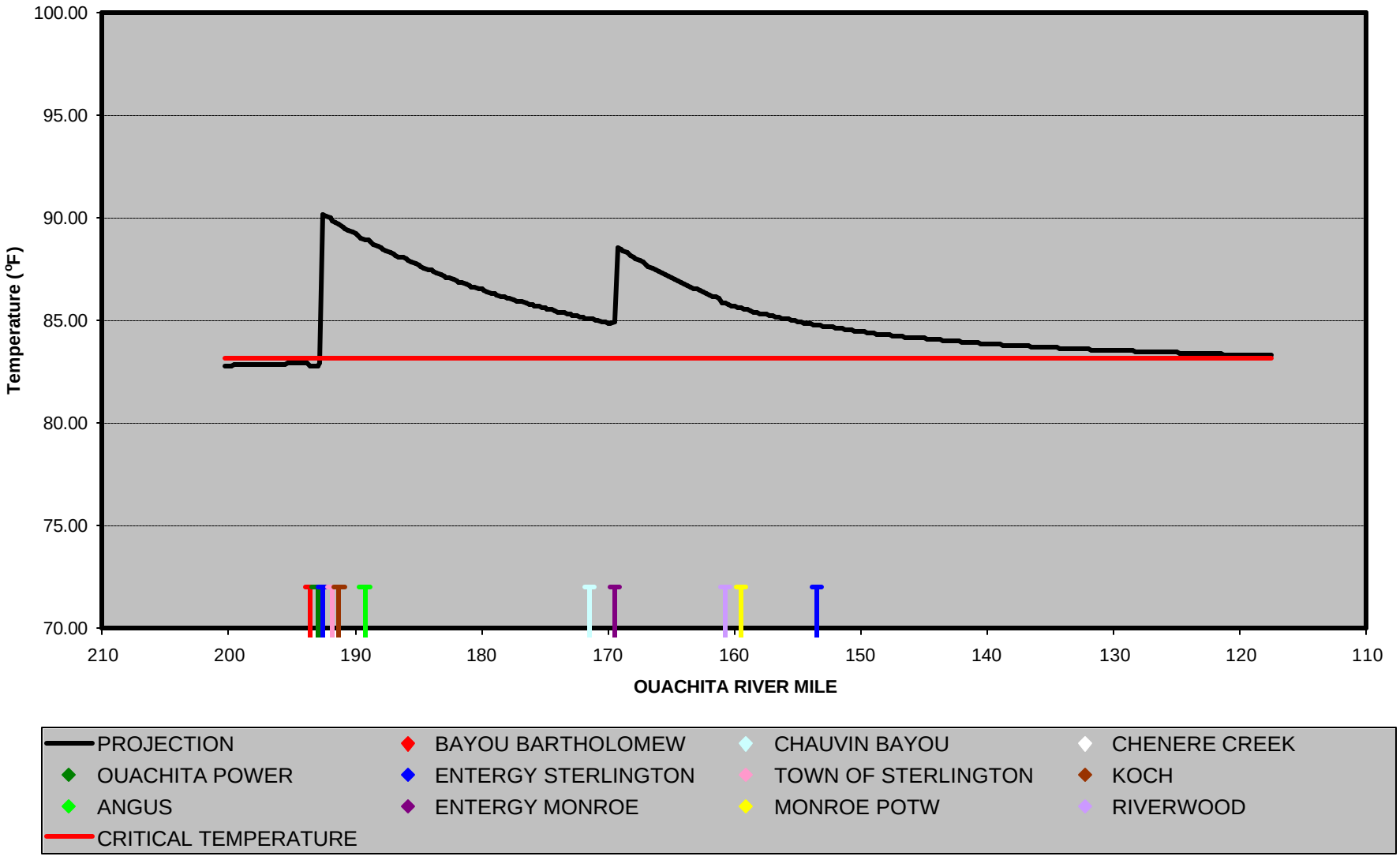
LOWER OUACHITA RIVER JUNE TP PROJECTION W/O LOAD REDUCTION



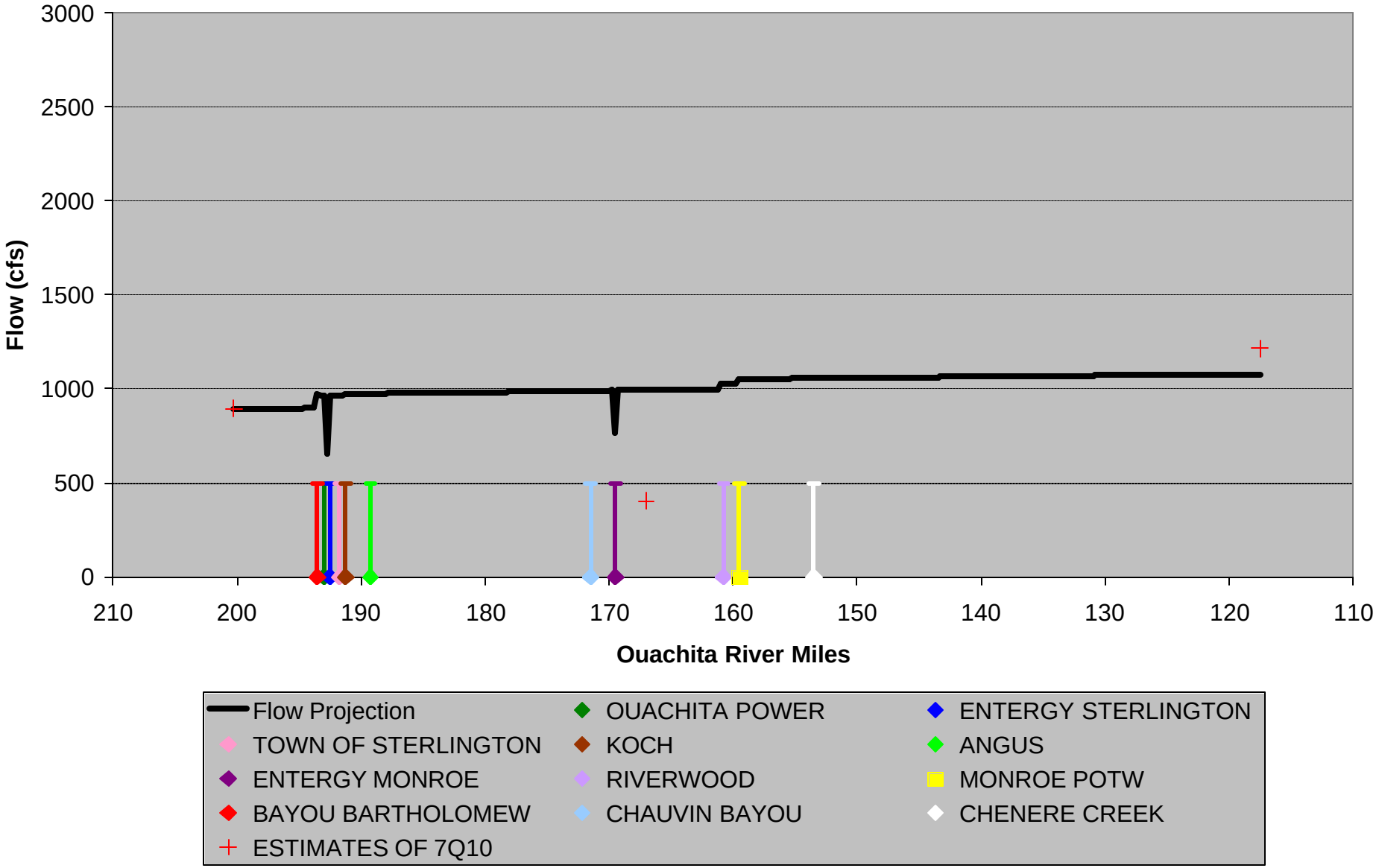
LOWER OUACHITA RIVER JUNE CHL-A PROJECTION W/O LOAD REDUCTION



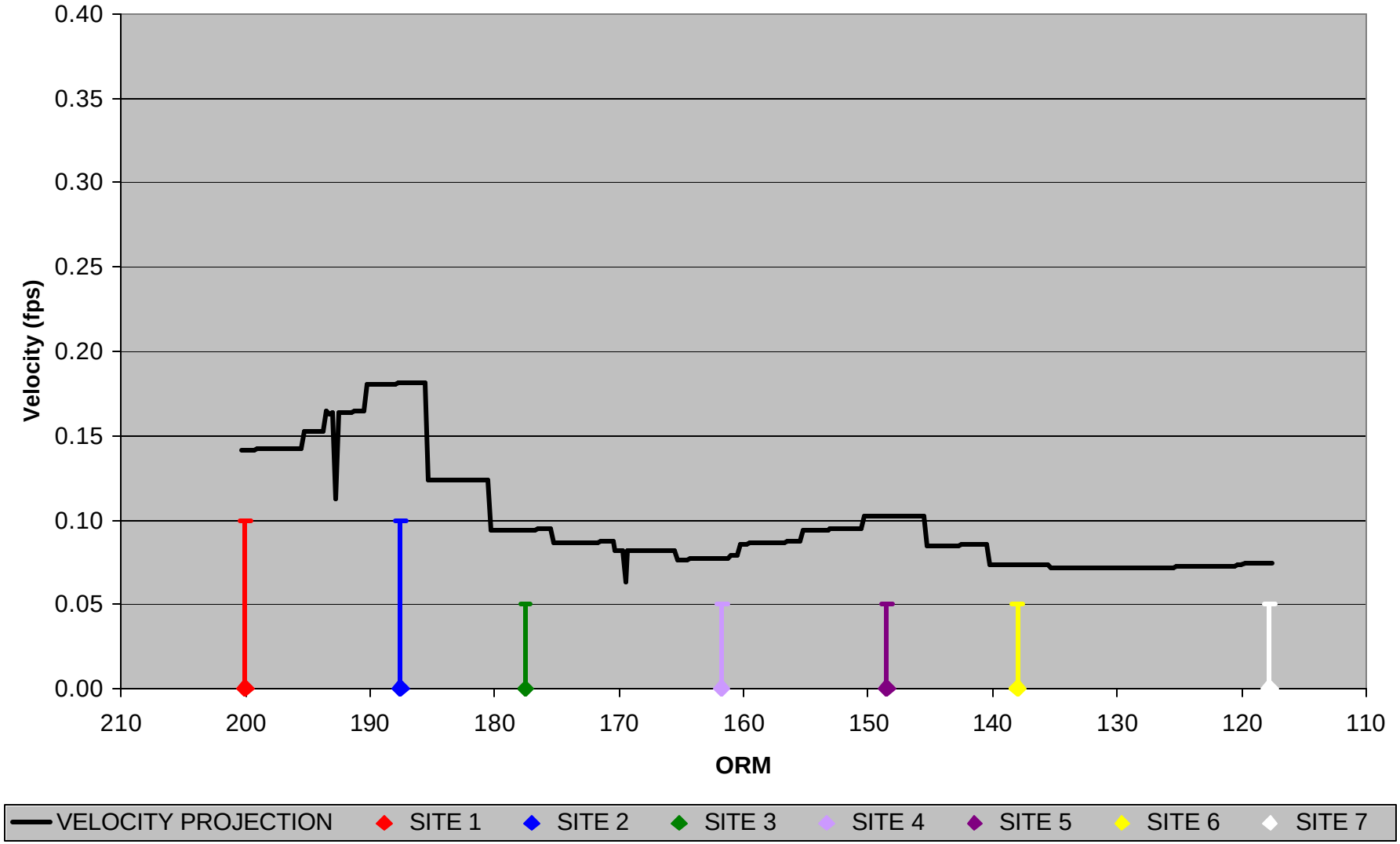
LOWER OUACHITA RIVER JUNE TEMPERATURE PROJECTION W/O LOAD REDUCTION



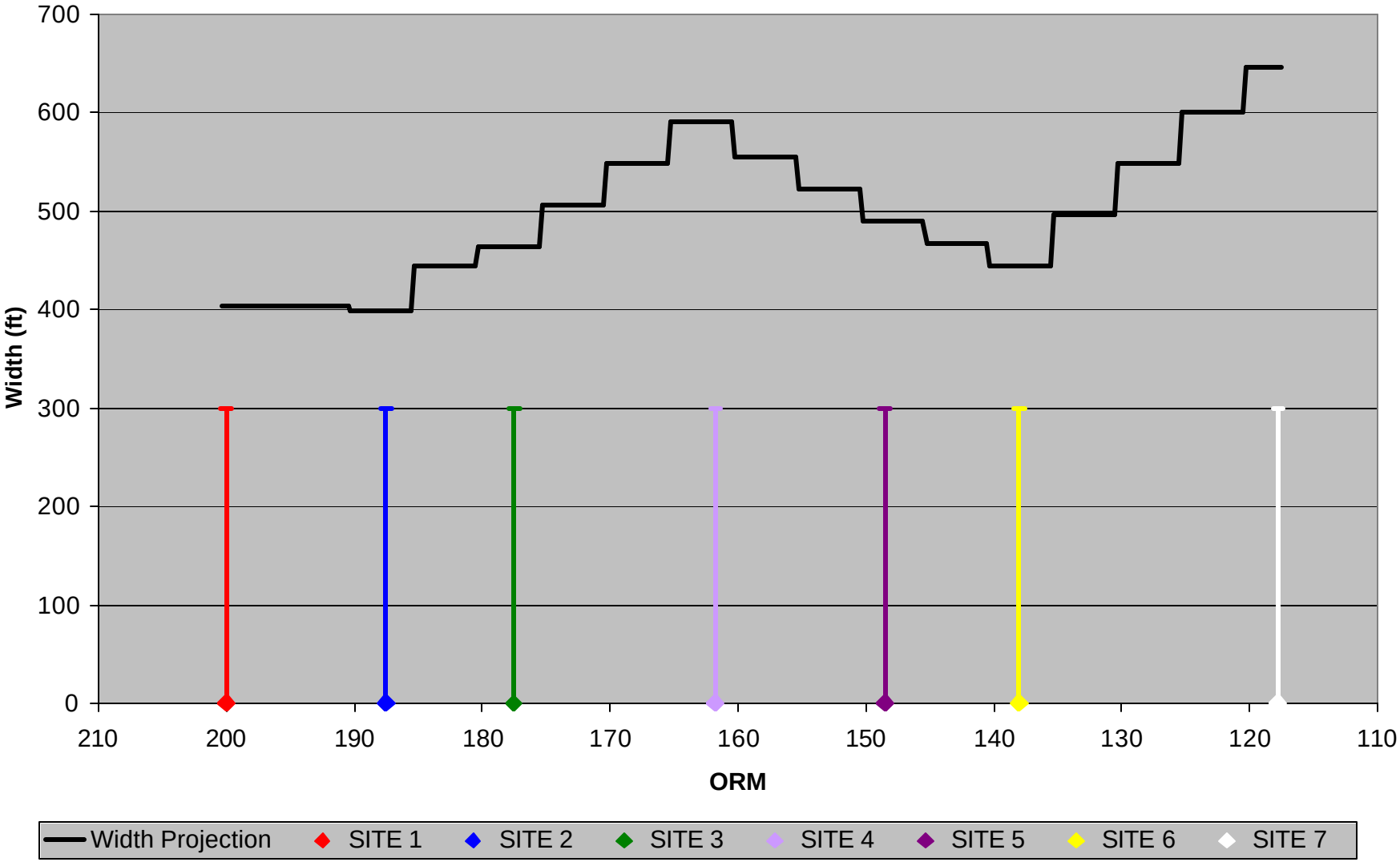
LOWER OUACHITA RIVER JULY FLOW PROJECTION



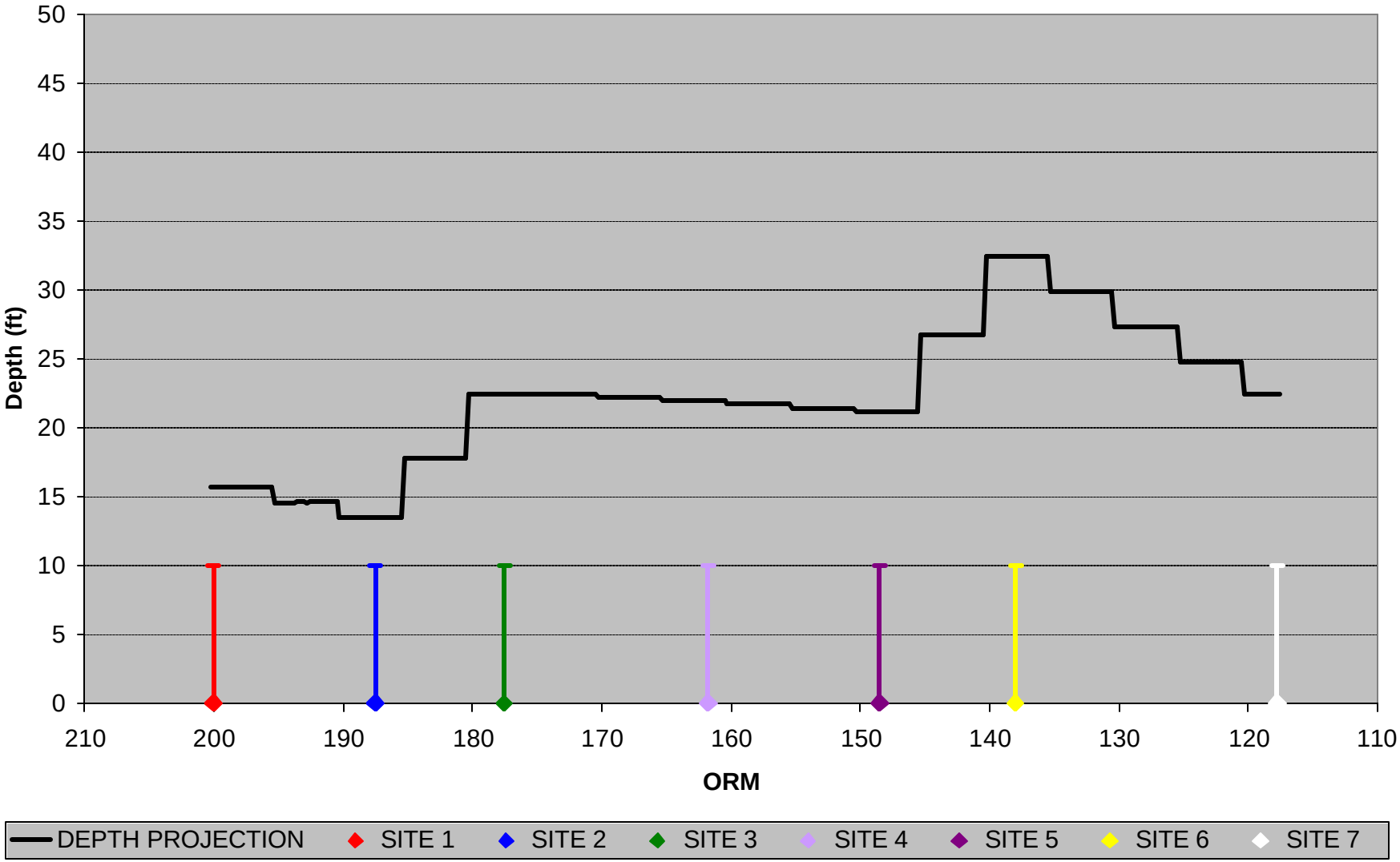
LOWER OUACHITA RIVER JULY VELOCITY PROJECTION



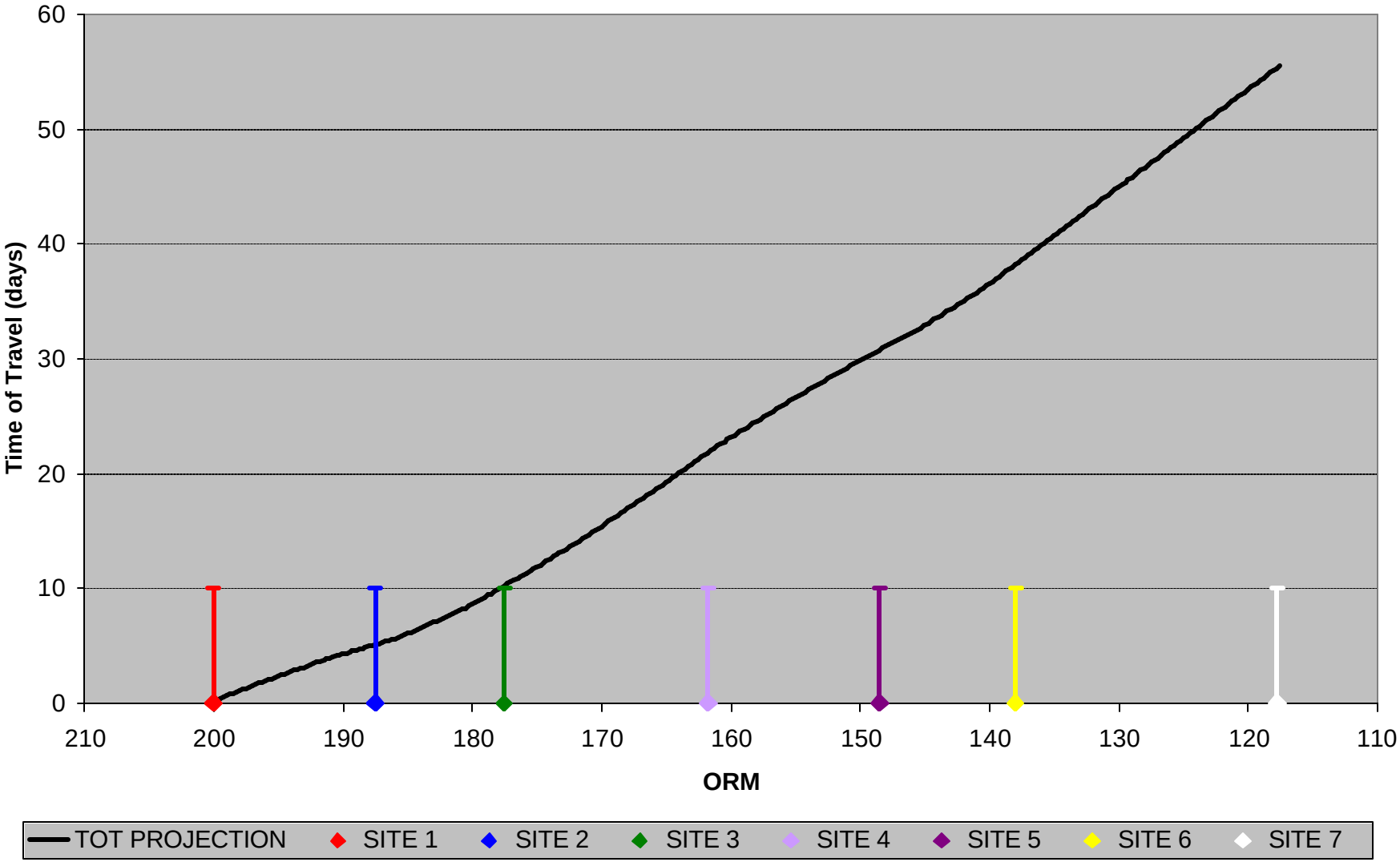
LOWER OUACHITA RIVER JULY WIDTH PROJECTION



LOWER OUACHITA RIVER JULY DEPTH PROJECTION



LOWER OUACHITA RIVER JULY TIME OF TRAVEL PROJECTION



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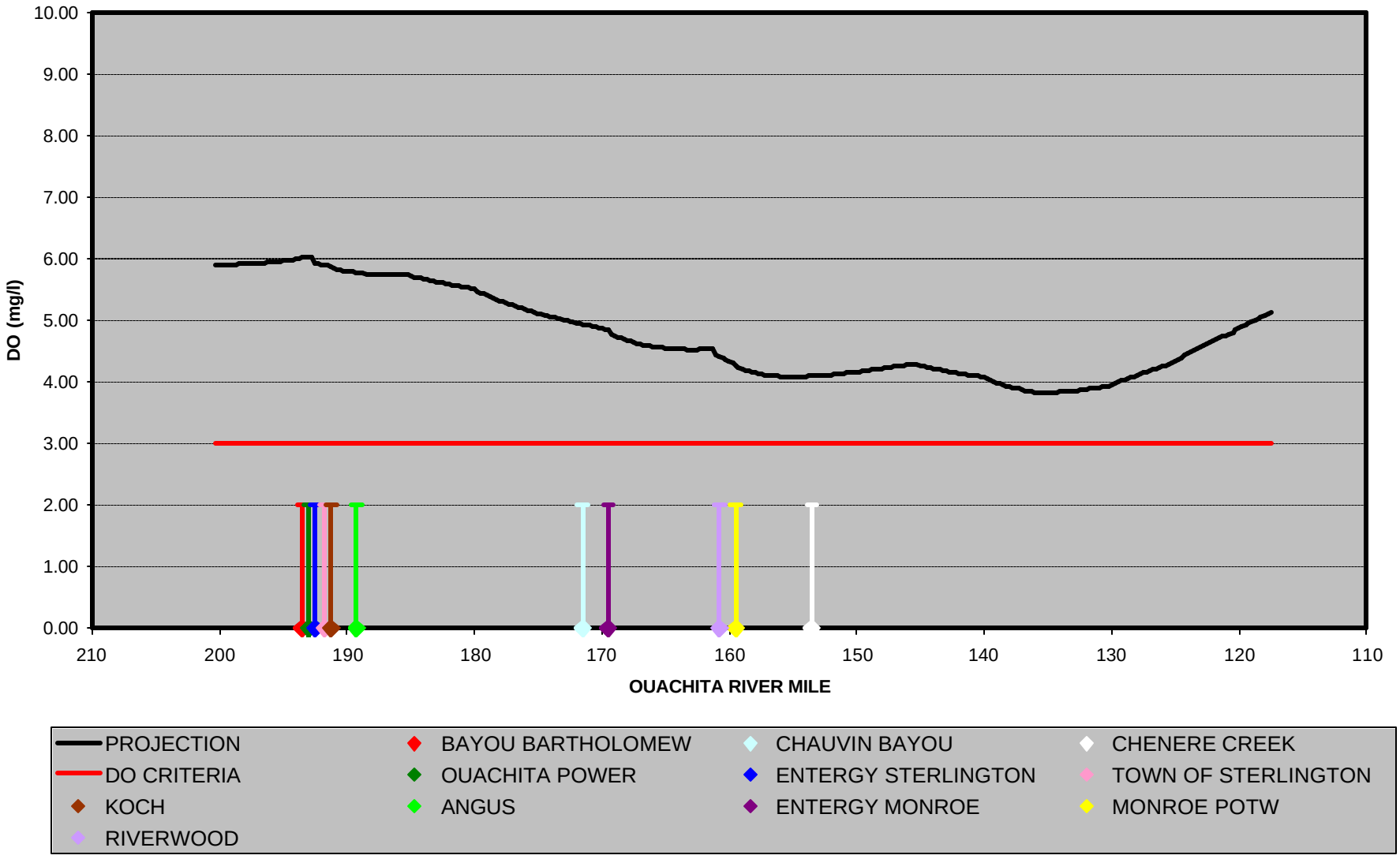
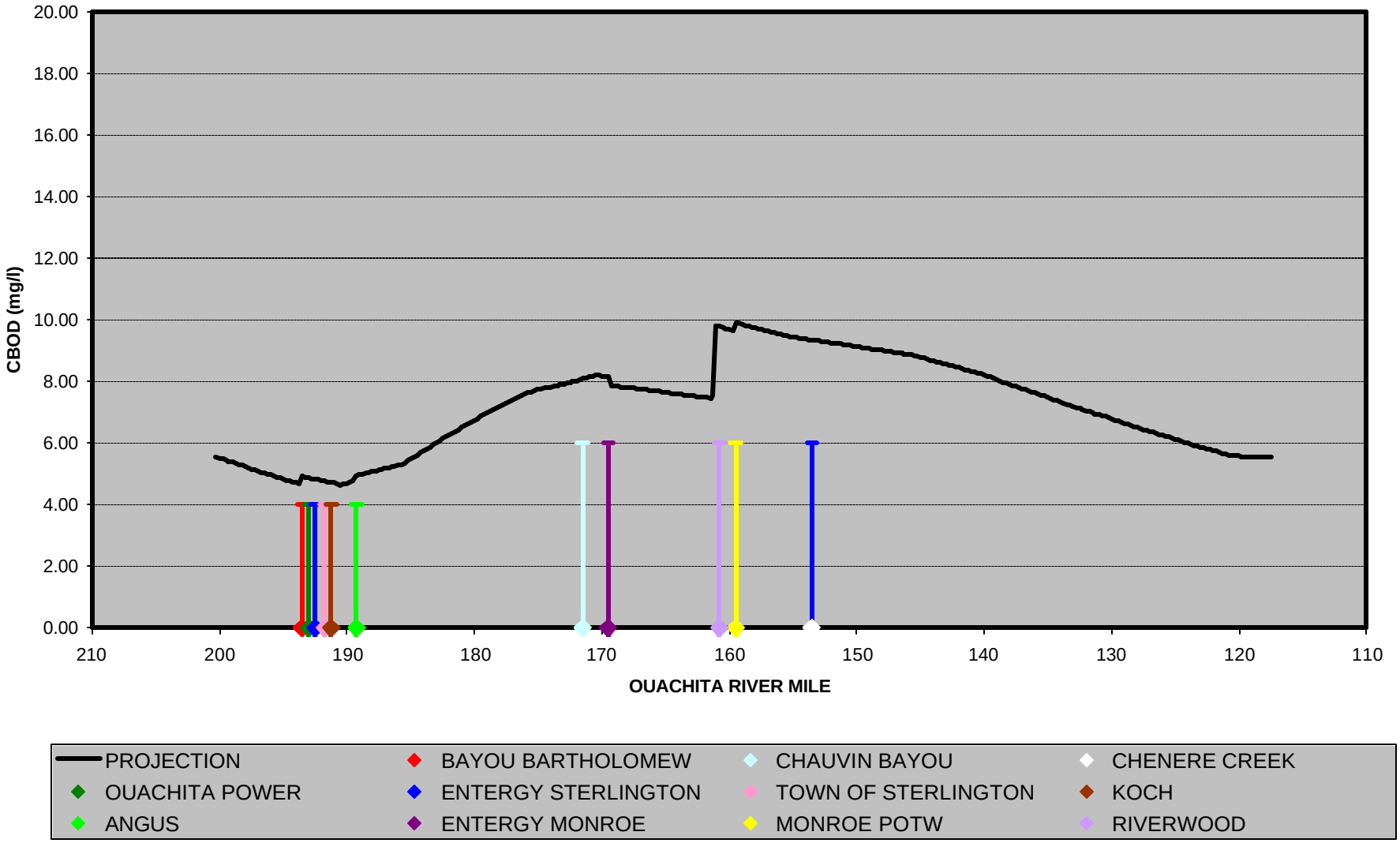
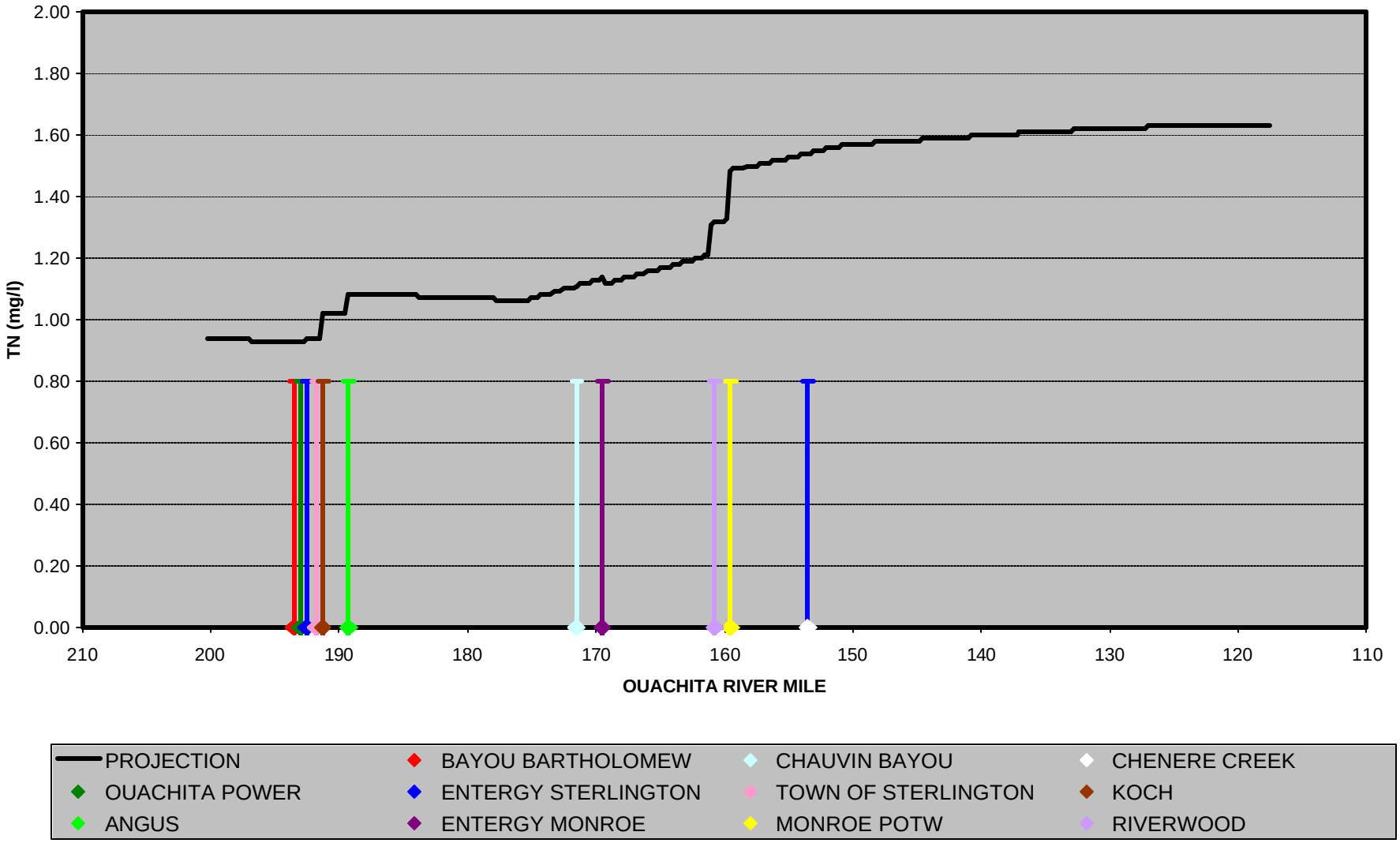


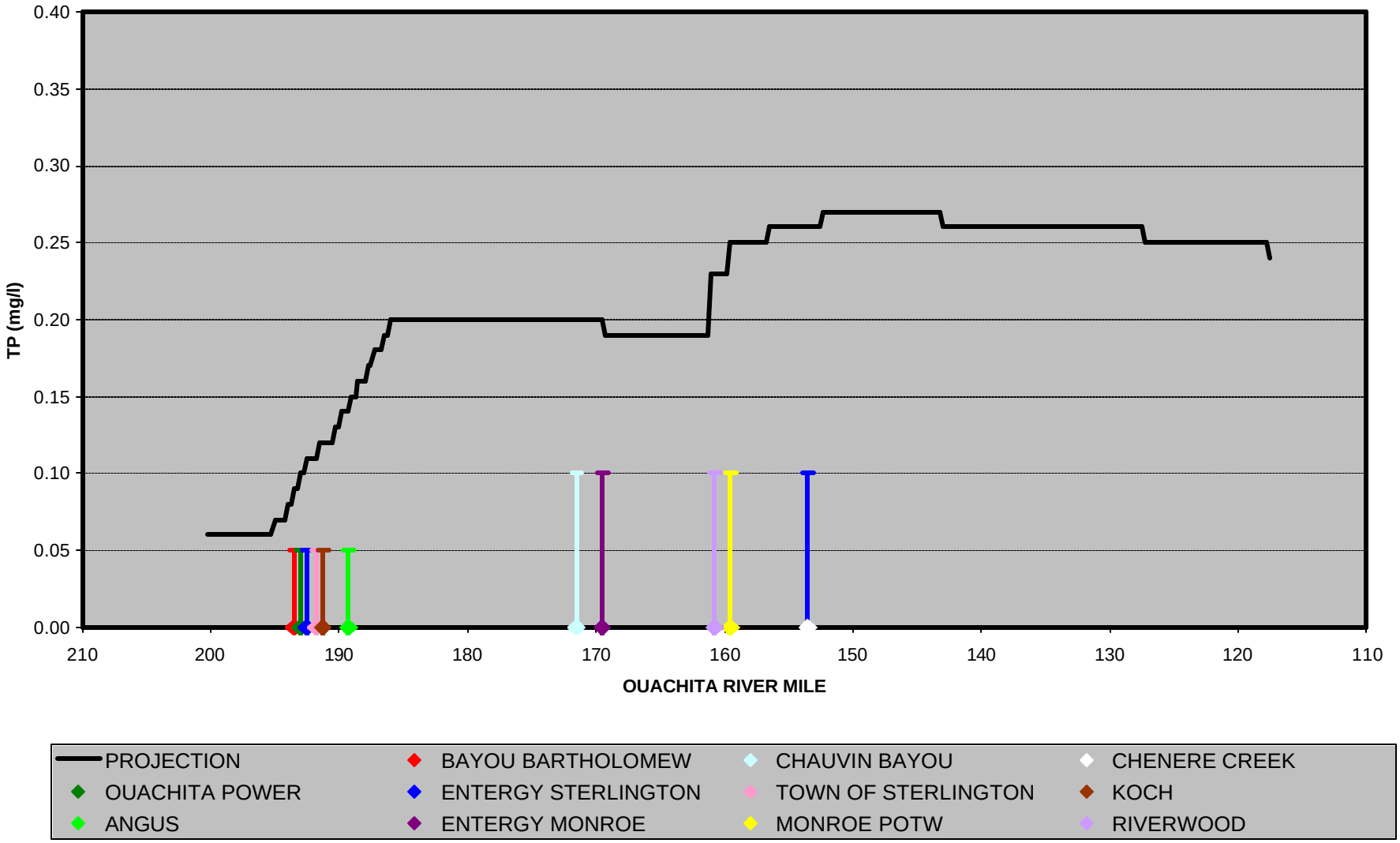
LOWER OUACHITA RIVER JULY CBOD PROJECTION W/O LOAD REDUCTION



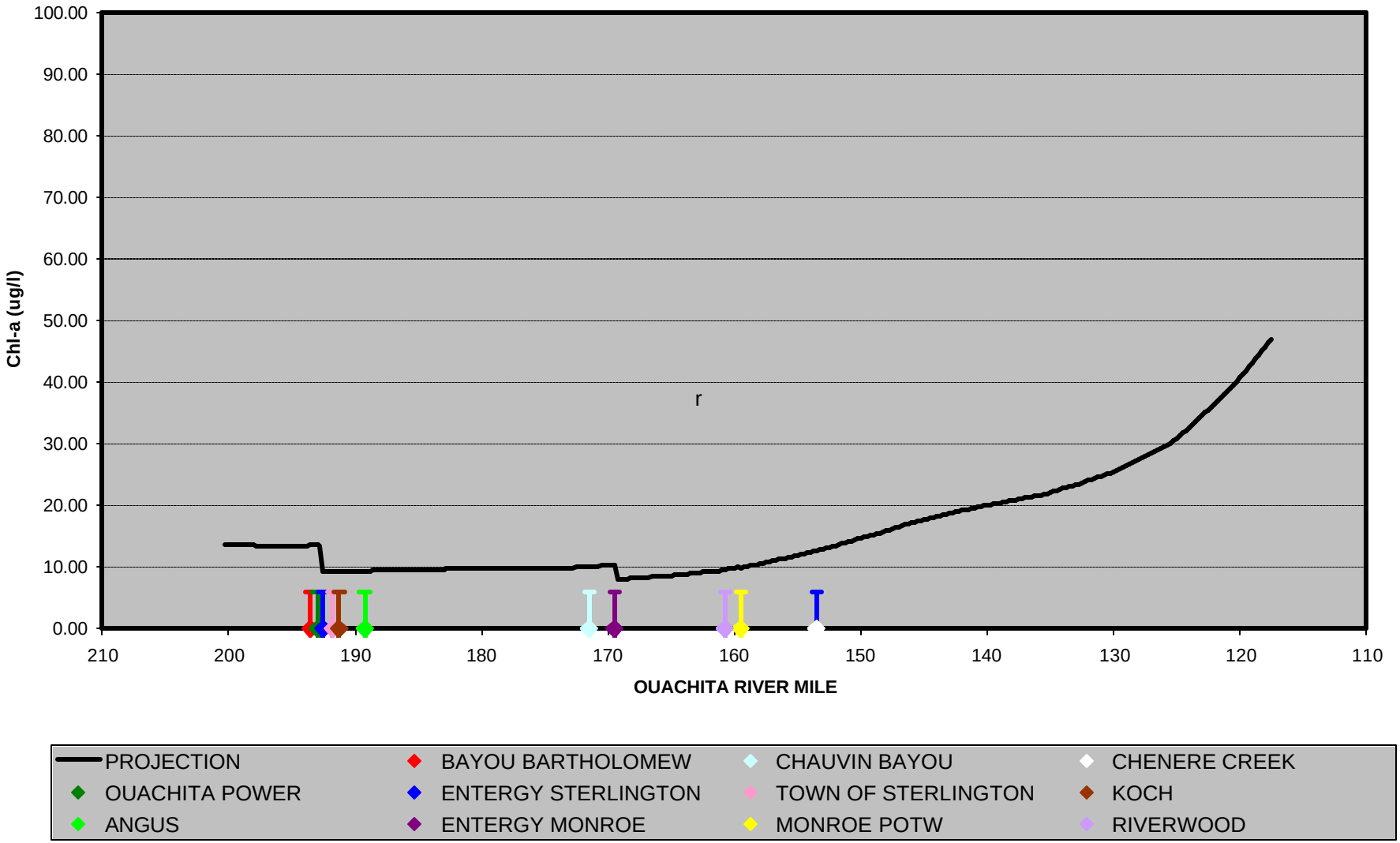
LOWER OUACHITA RIVER JULY TN PROJECTION W/O LOAD REDUCTION



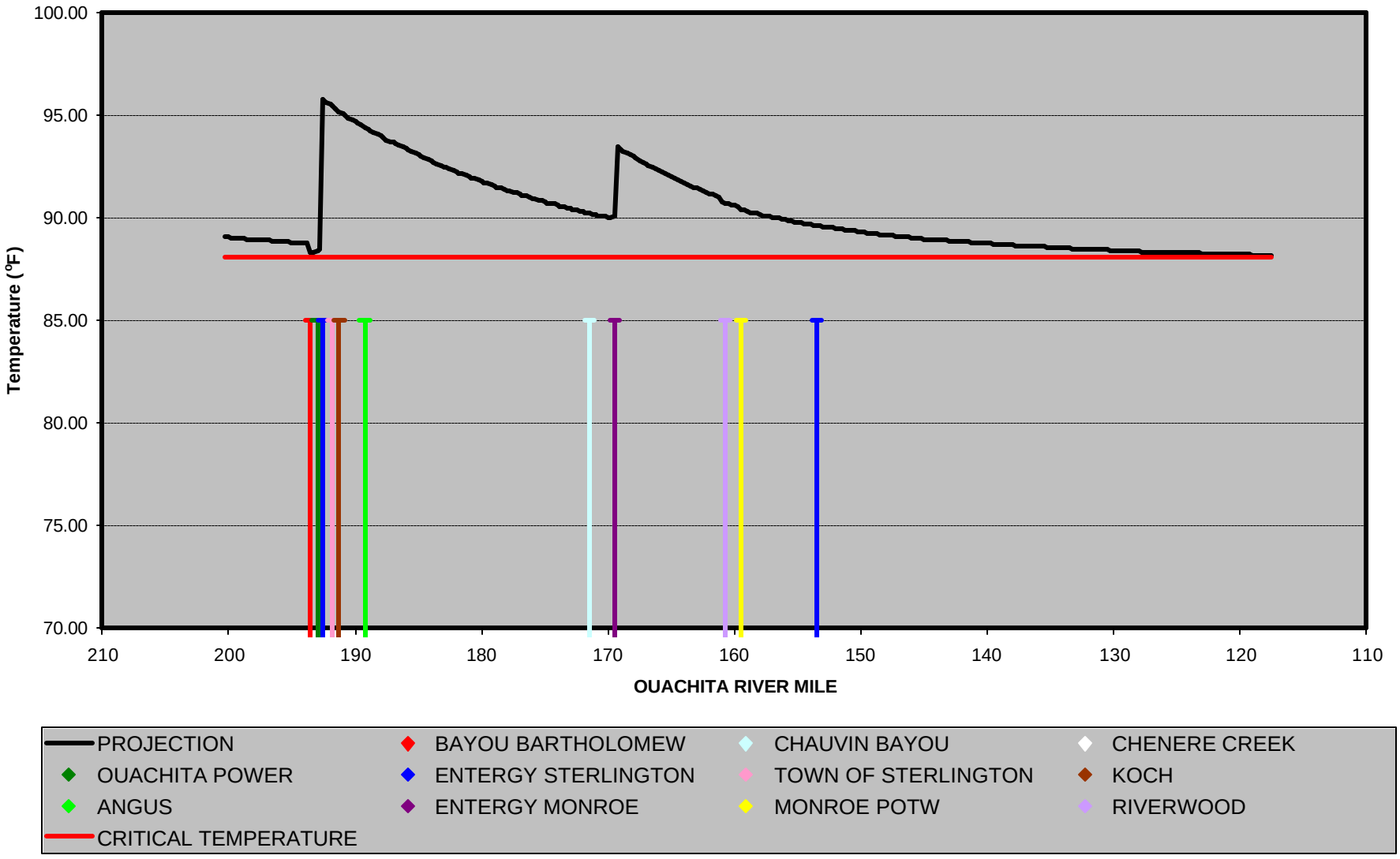
LOWER OUACHITA RIVER JULY TP PROJECTION W/O LOAD REDUCTION



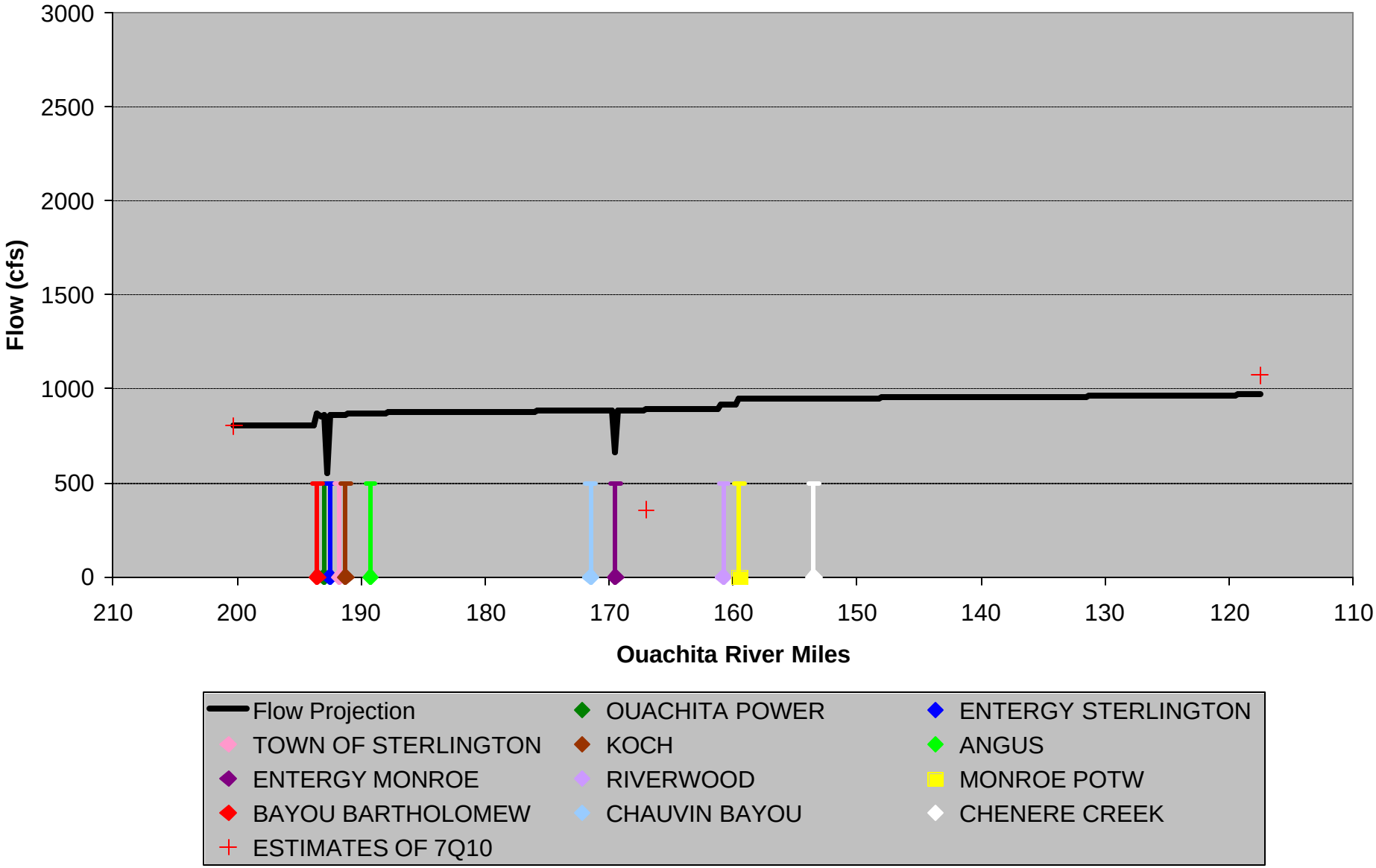
LOWER OUACHITA RIVER JULY CHL-A PROJECTION W/O LOAD REDUCTION



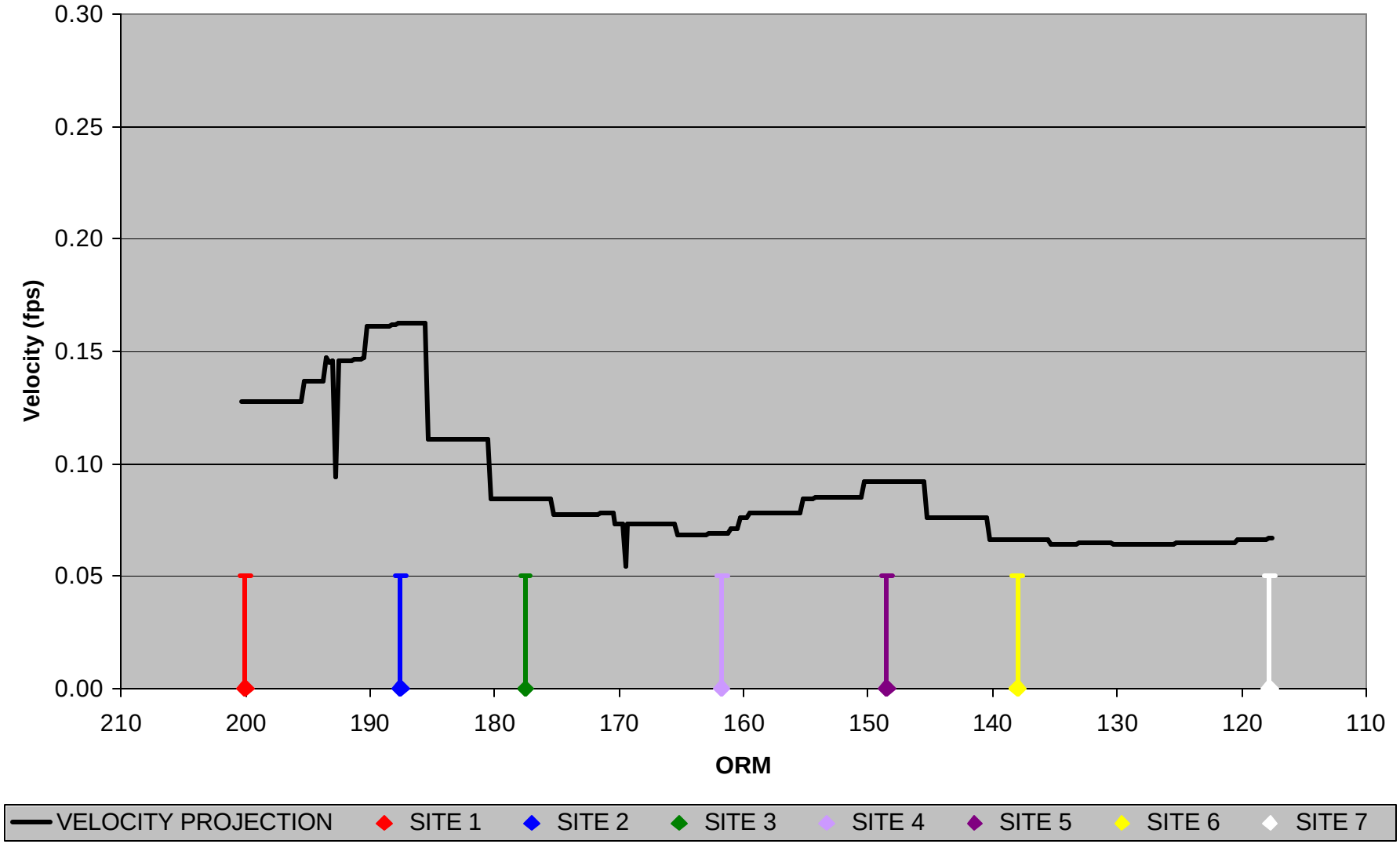
LOWER OUACHITA RIVER JULY TEMPERATURE PROJECTION W/O LOAD REDUCTION



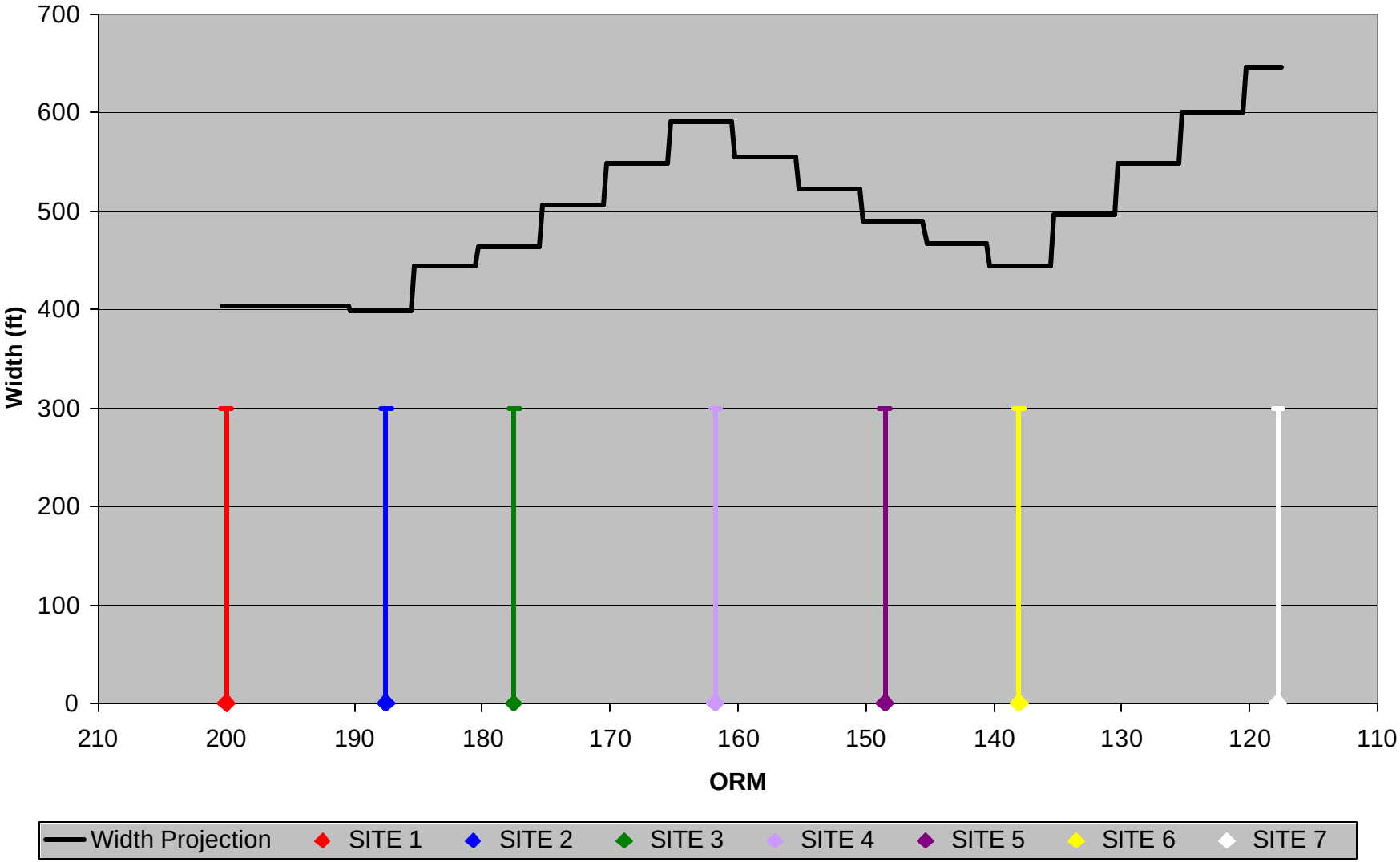
LOWER OUACHITA RIVER AUGUST FLOW PROJECTION



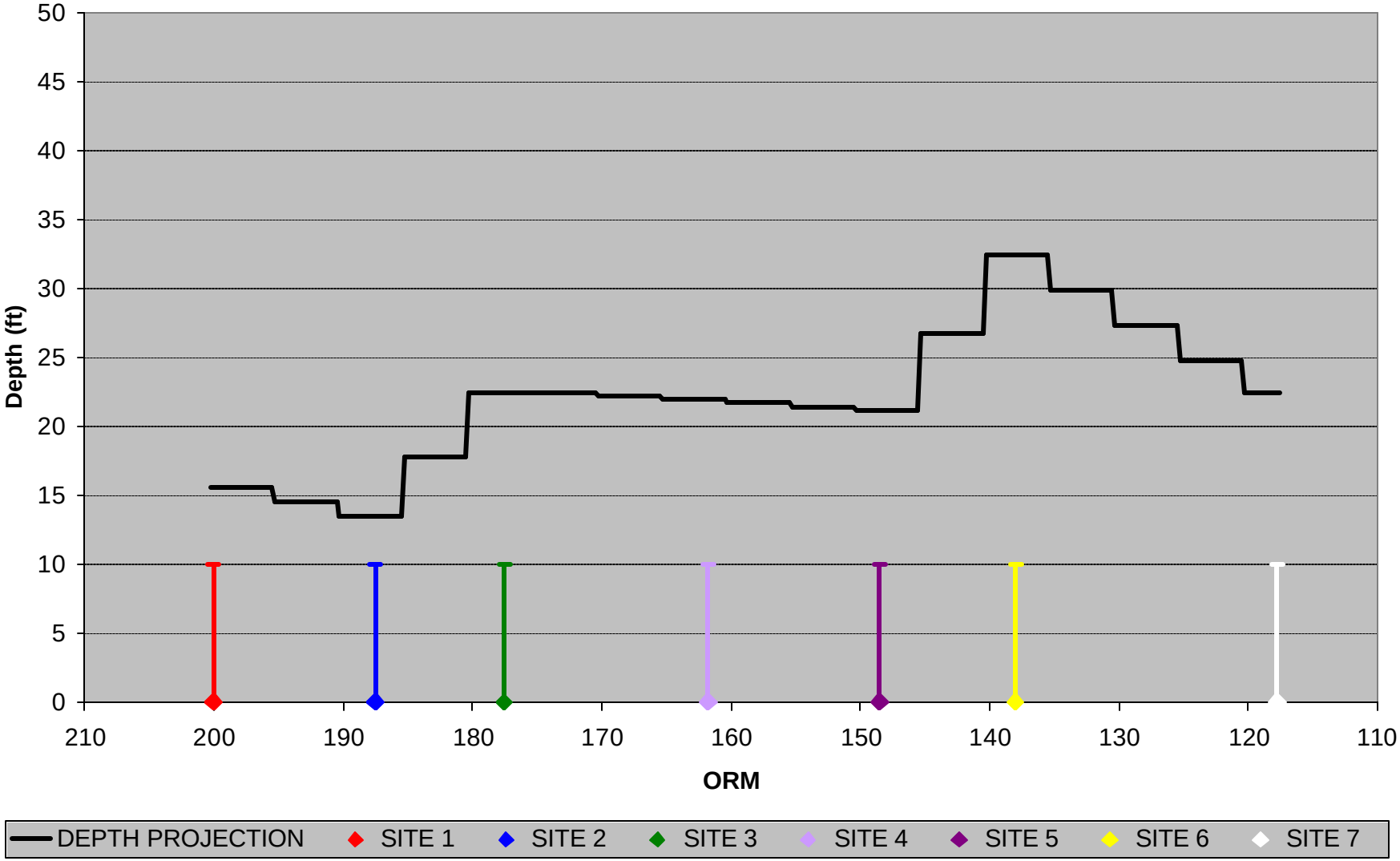
LOWER OUACHITA RIVER AUGUST VELOCITY PROJECTION



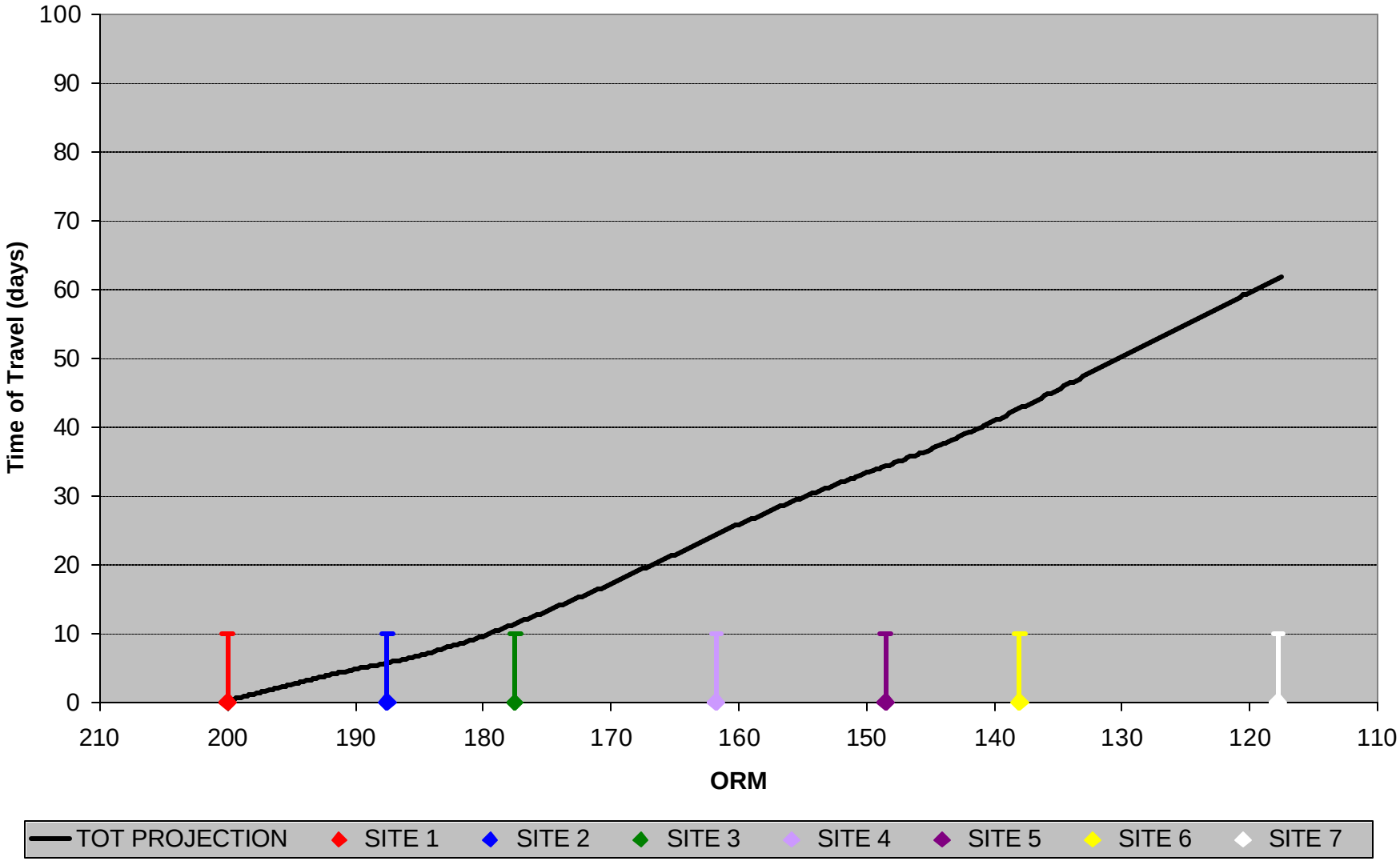
LOWER OUACHITA RIVER AUGUST WIDTH PROJECTION



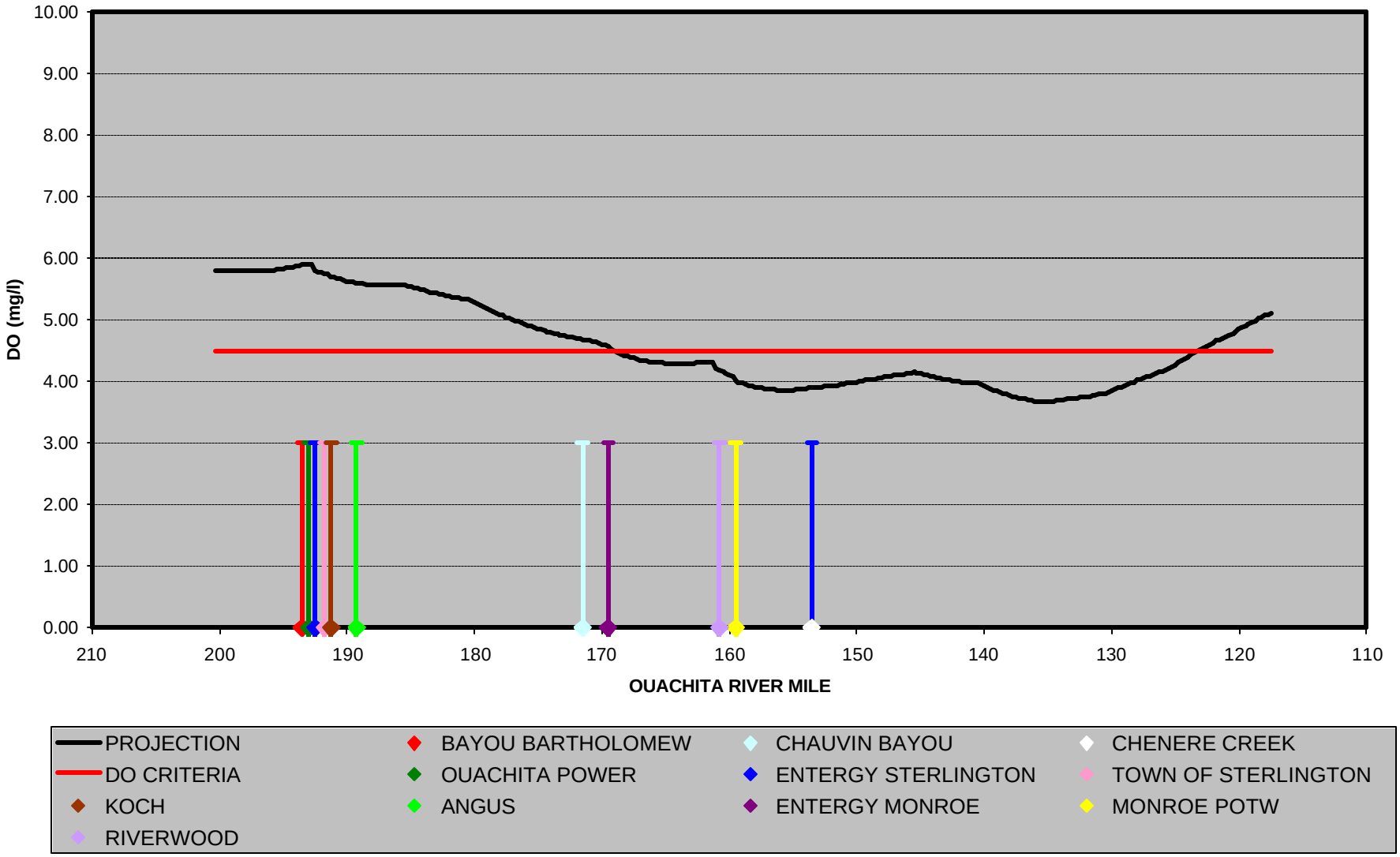
LOWER OUACHITA RIVER AUGUST DEPTH PROJECTION



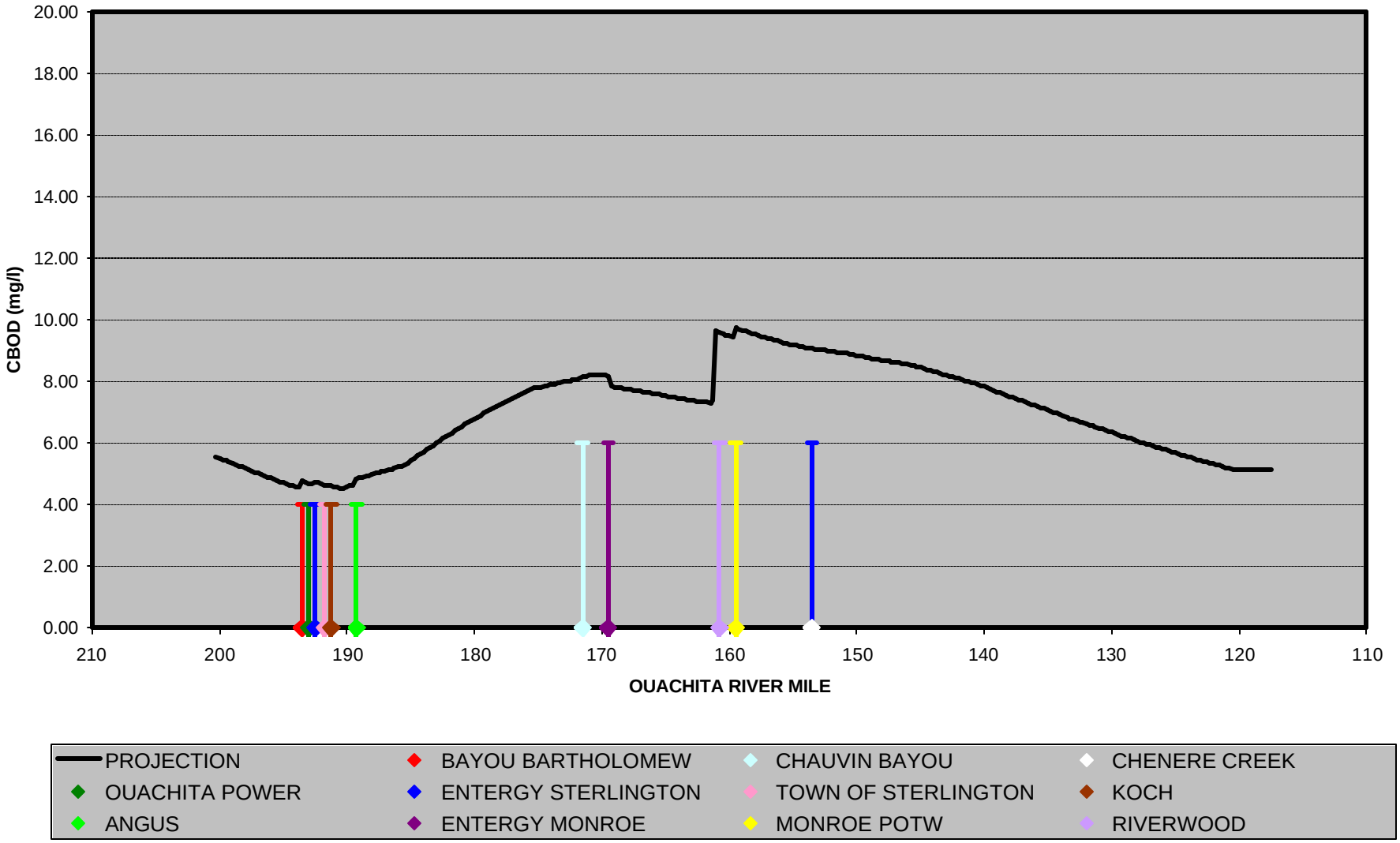
LOWER OUACHITA RIVER AUGUST TIME OF TRAVEL PROJECTION



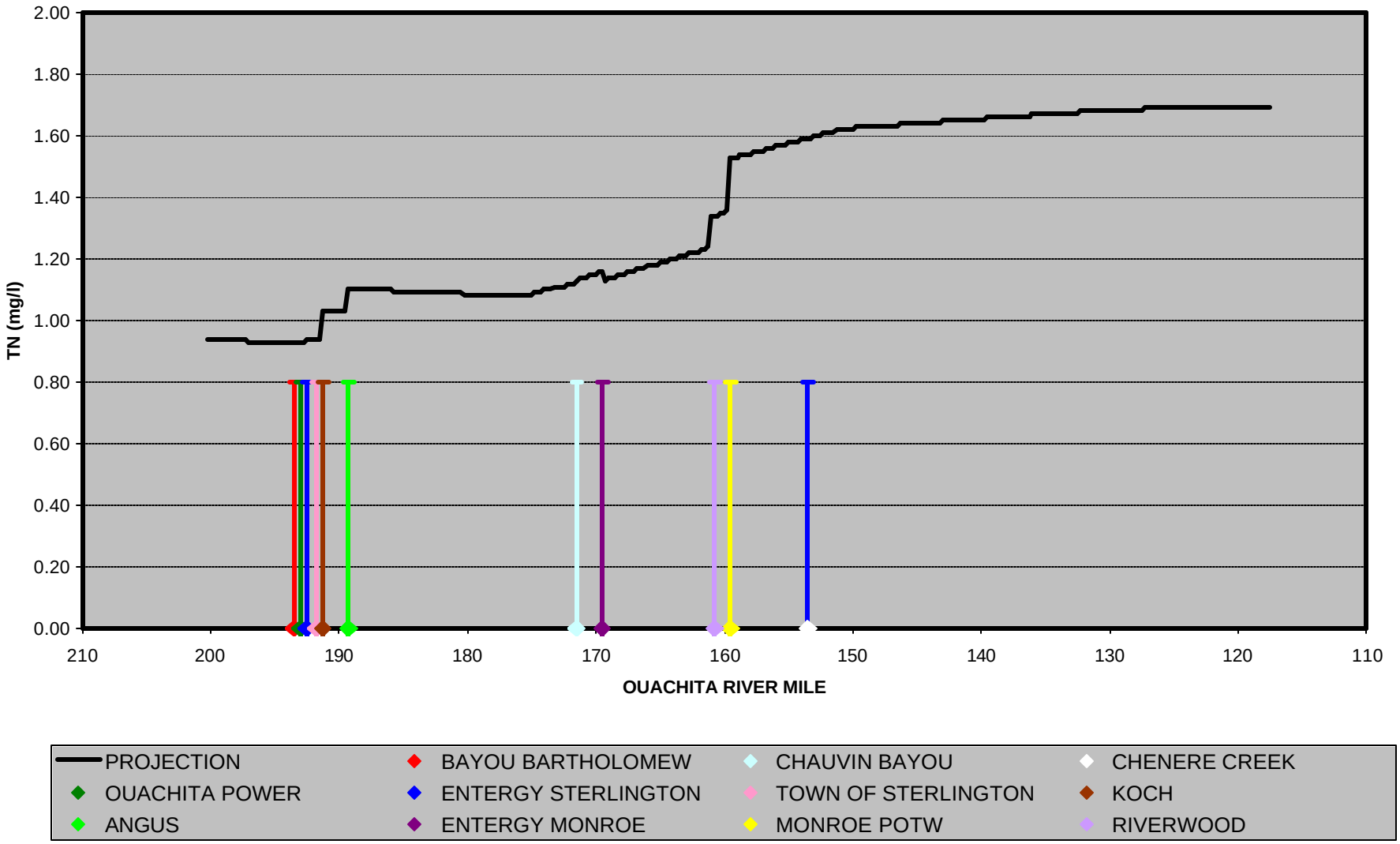
LOWER OUACHITA RIVER AUGUST DO PROJECTION W/O LOAD REDUCTION



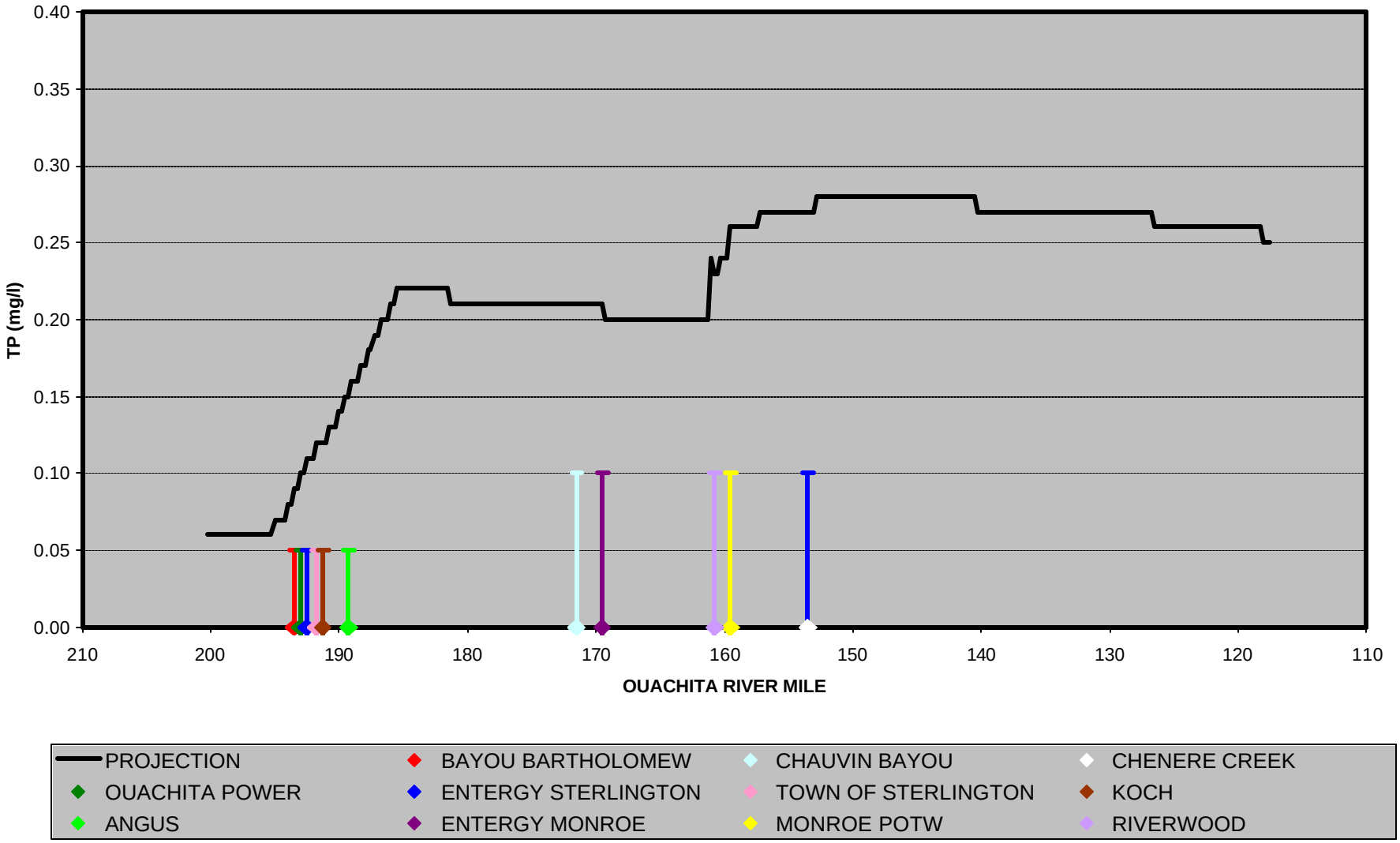
LOWER OUACHITA RIVER AUGUST CBOD PROJECTION W/O LOAD REDUCTION



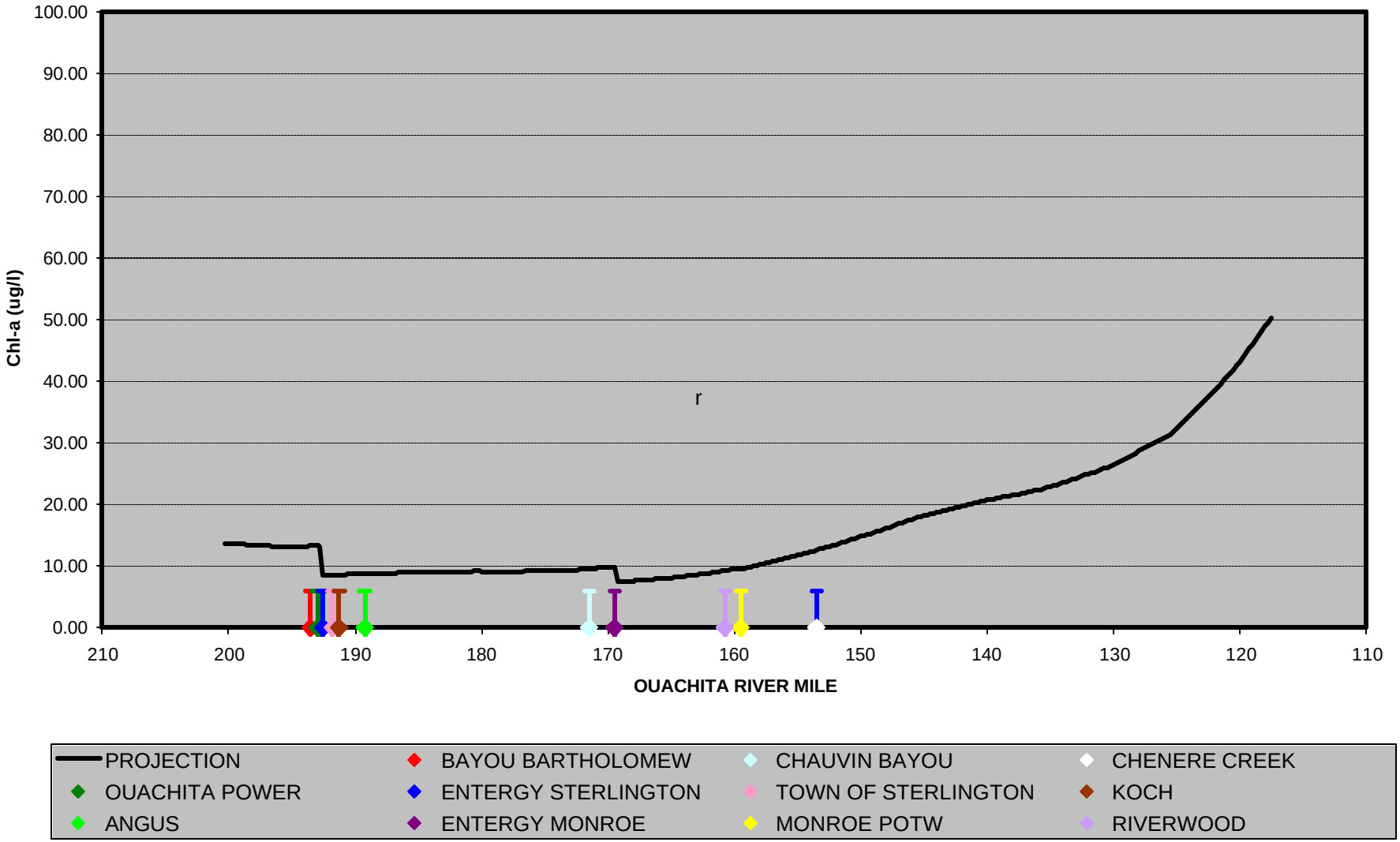
LOWER OUACHITA RIVER AUGUST TN PROJECTION W/O LOAD REDUCTION



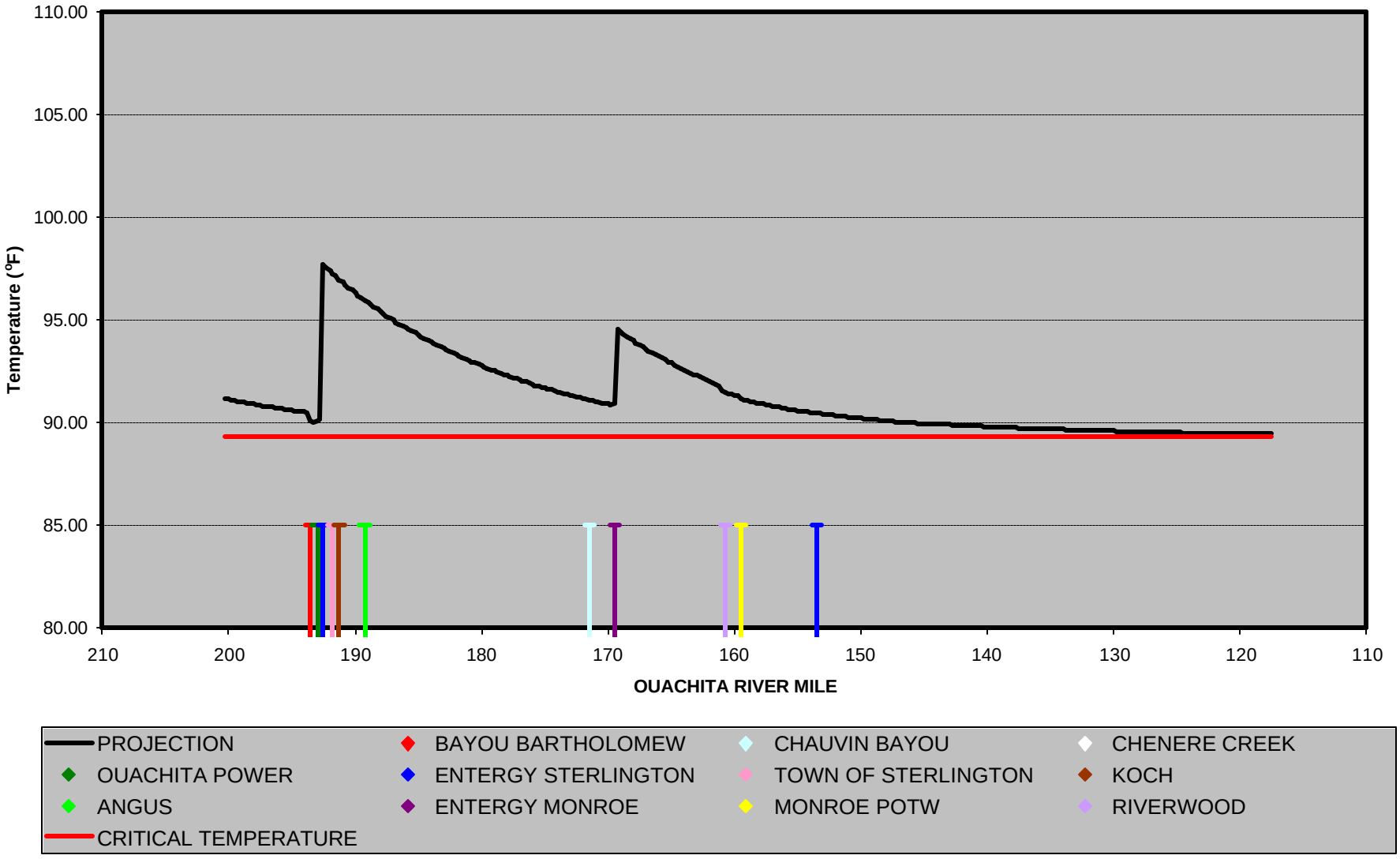
LOWER OUACHITA RIVER AUGUST TP PROJECTION W/O LOAD REDUCTION



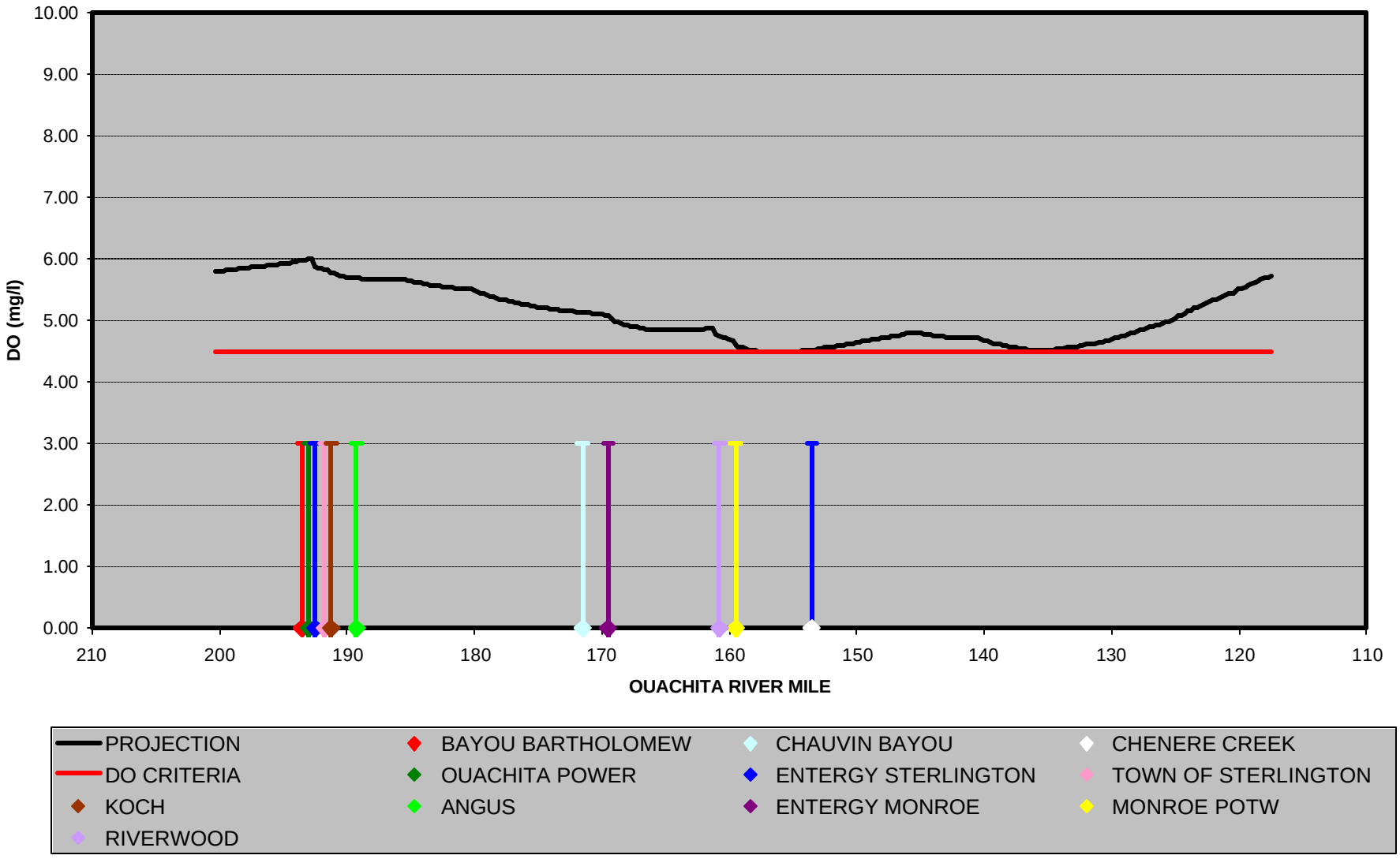
LOWER OUACHITA RIVER AUGUST CHL-A PROJECTION W/O LOAD REDUCTION



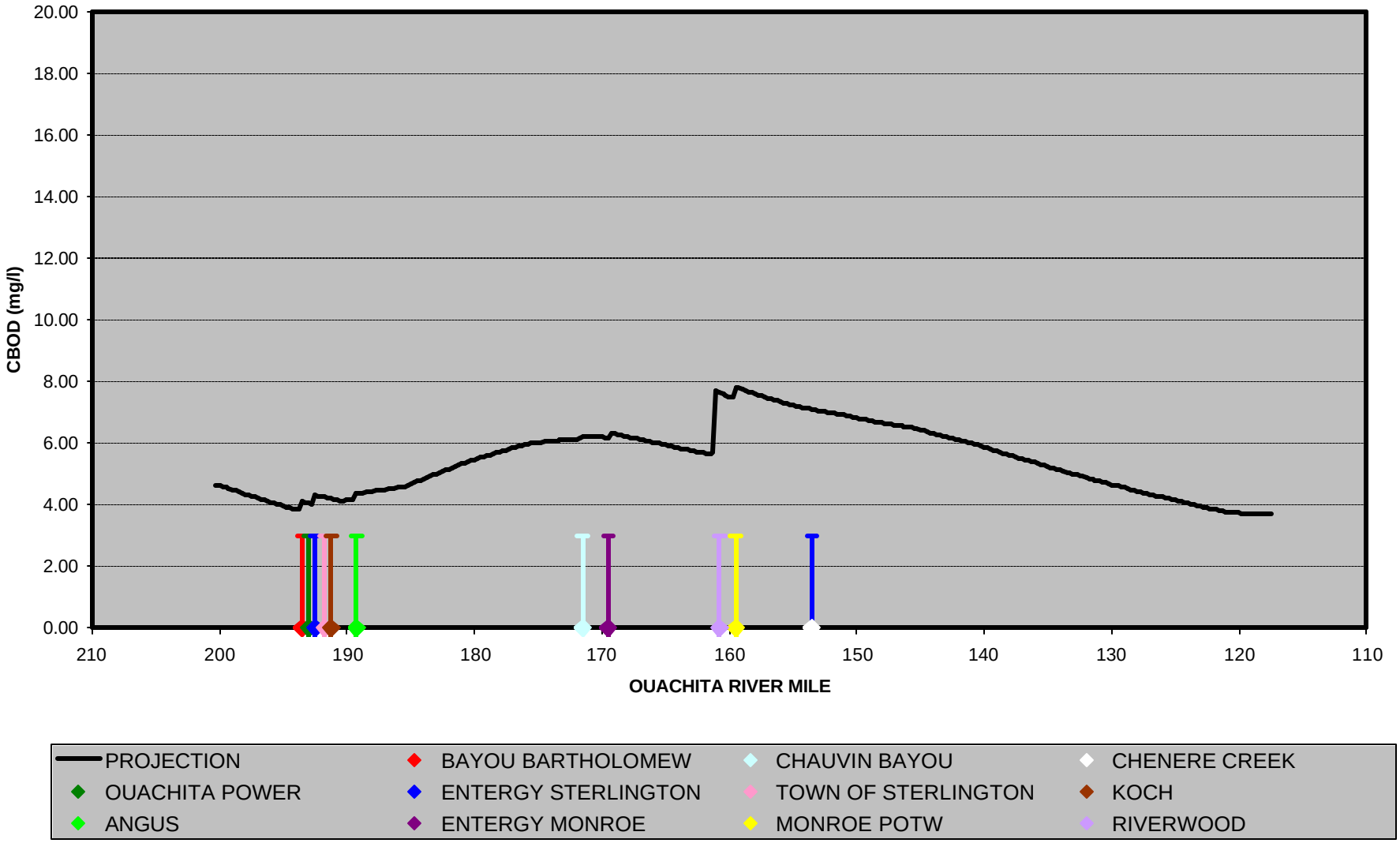
LOWER OUACHITA RIVER AUGUST TEMPERATURE PROJECTION W/O LOAD REDUCTION



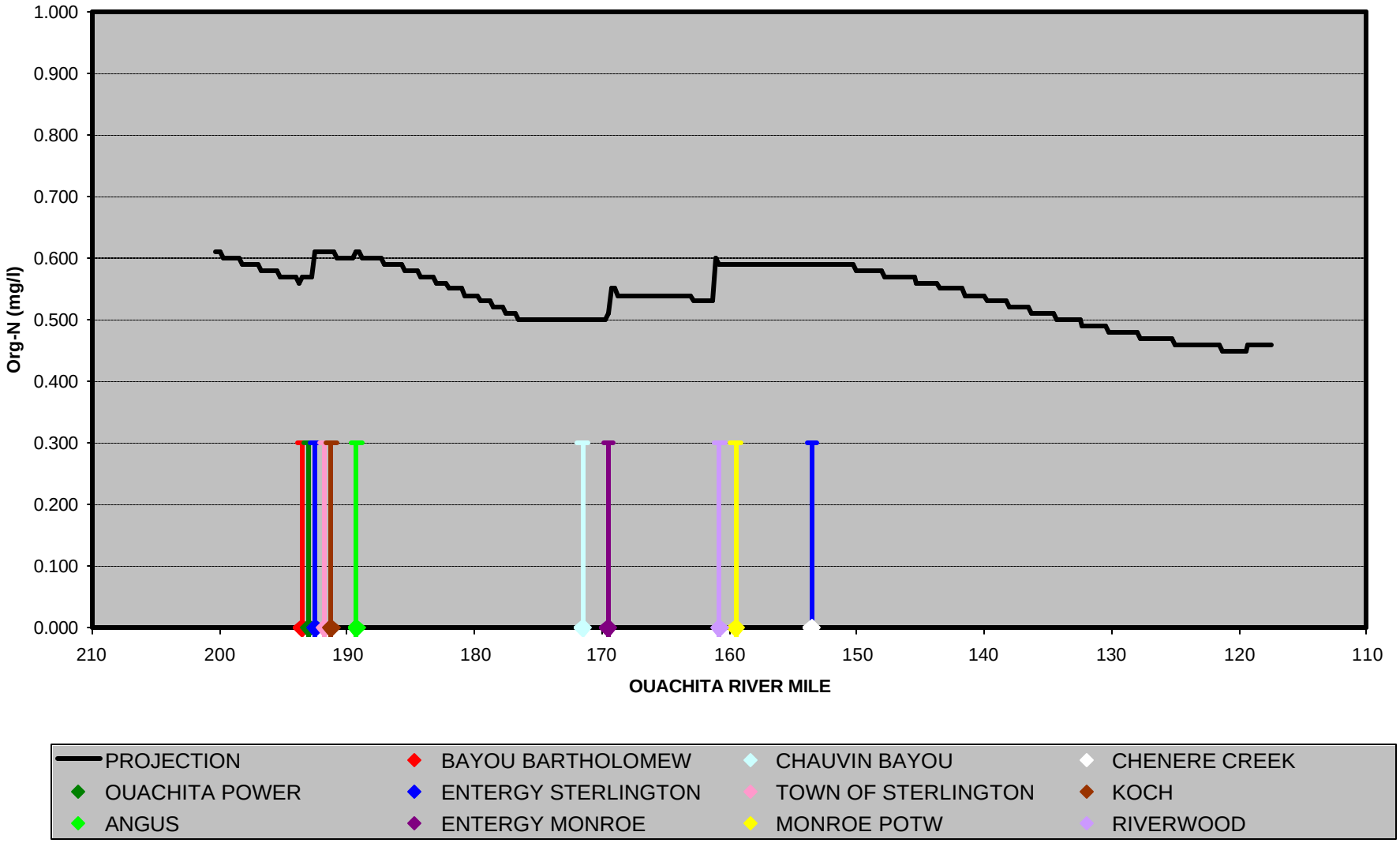
LOWER OUACHITA RIVER AUGUST DO PROJECTION TO MEET CRITERIA



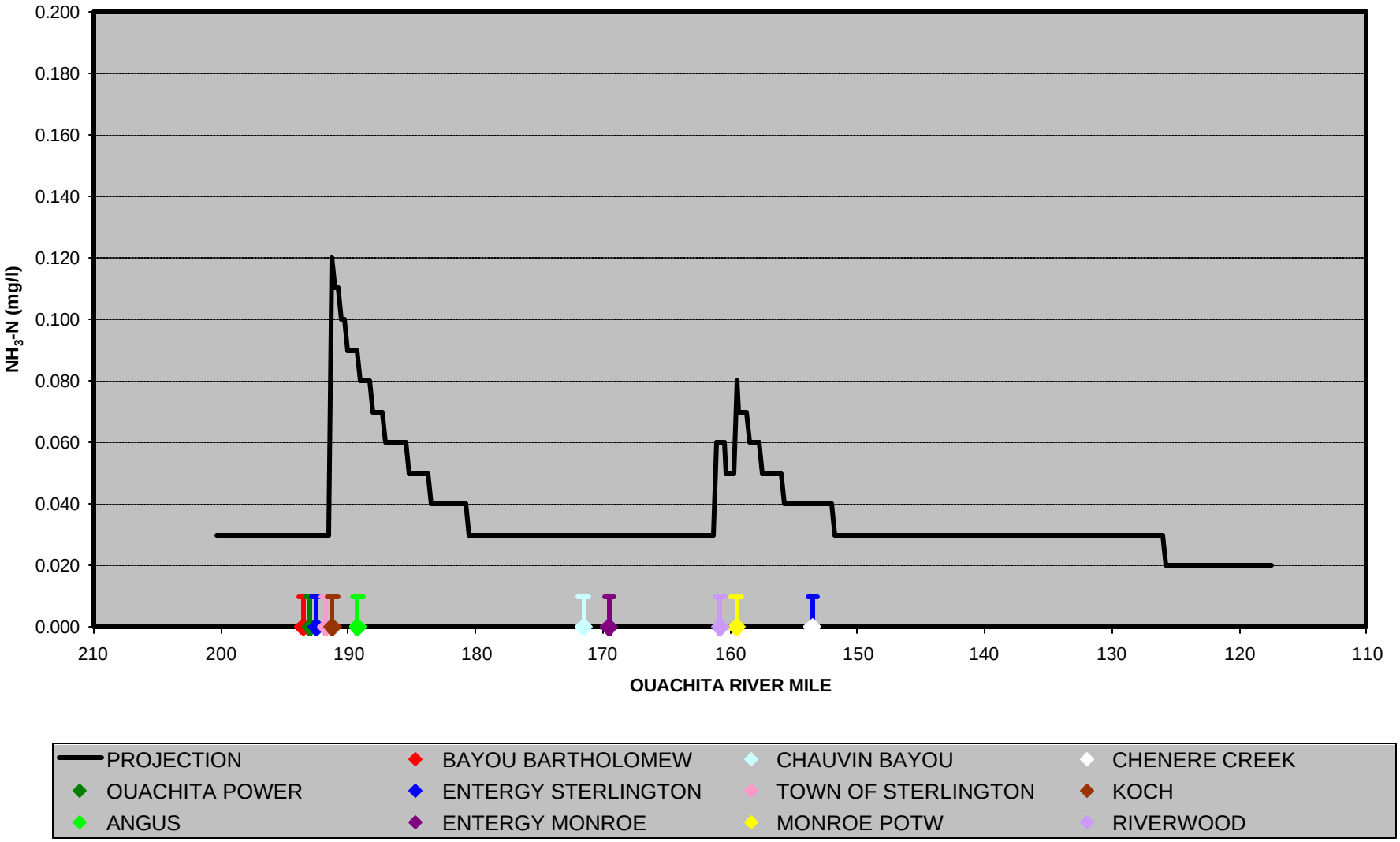
LOWER OUACHITA RIVER AUGUST CBOD PROJECTION TO MEET CRITERIA



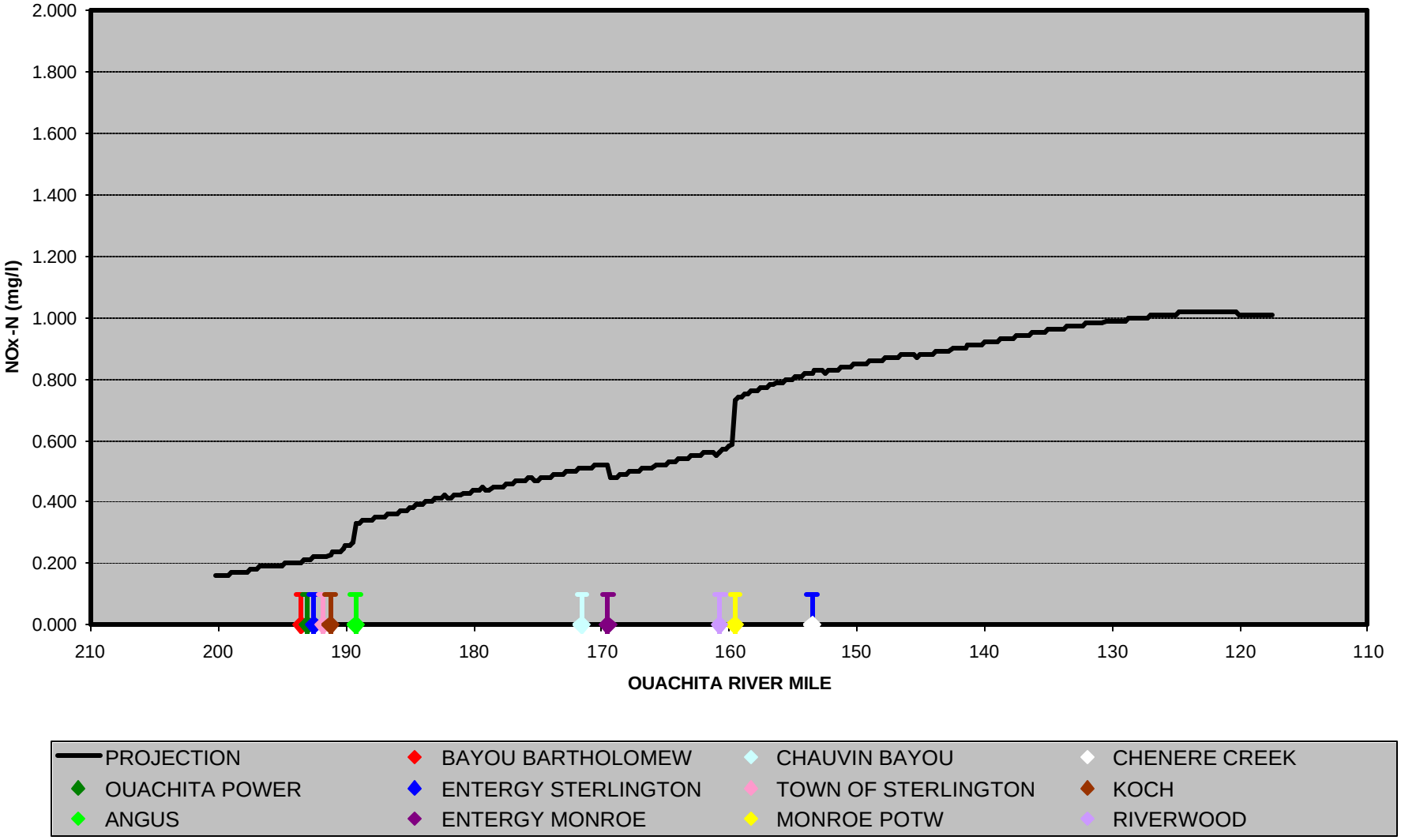
LOWER OUACHITA RIVER AUGUST ORG-N PROJECTION TO MEET CRITERIA



LOWER OUACHITA RIVER AUGUST NH_3-N PROJECTION TO MEET CRITERIA



LOWER OUACHITA RIVER AUGUST NOx-N PROJECTION TO MEET CRITERIA



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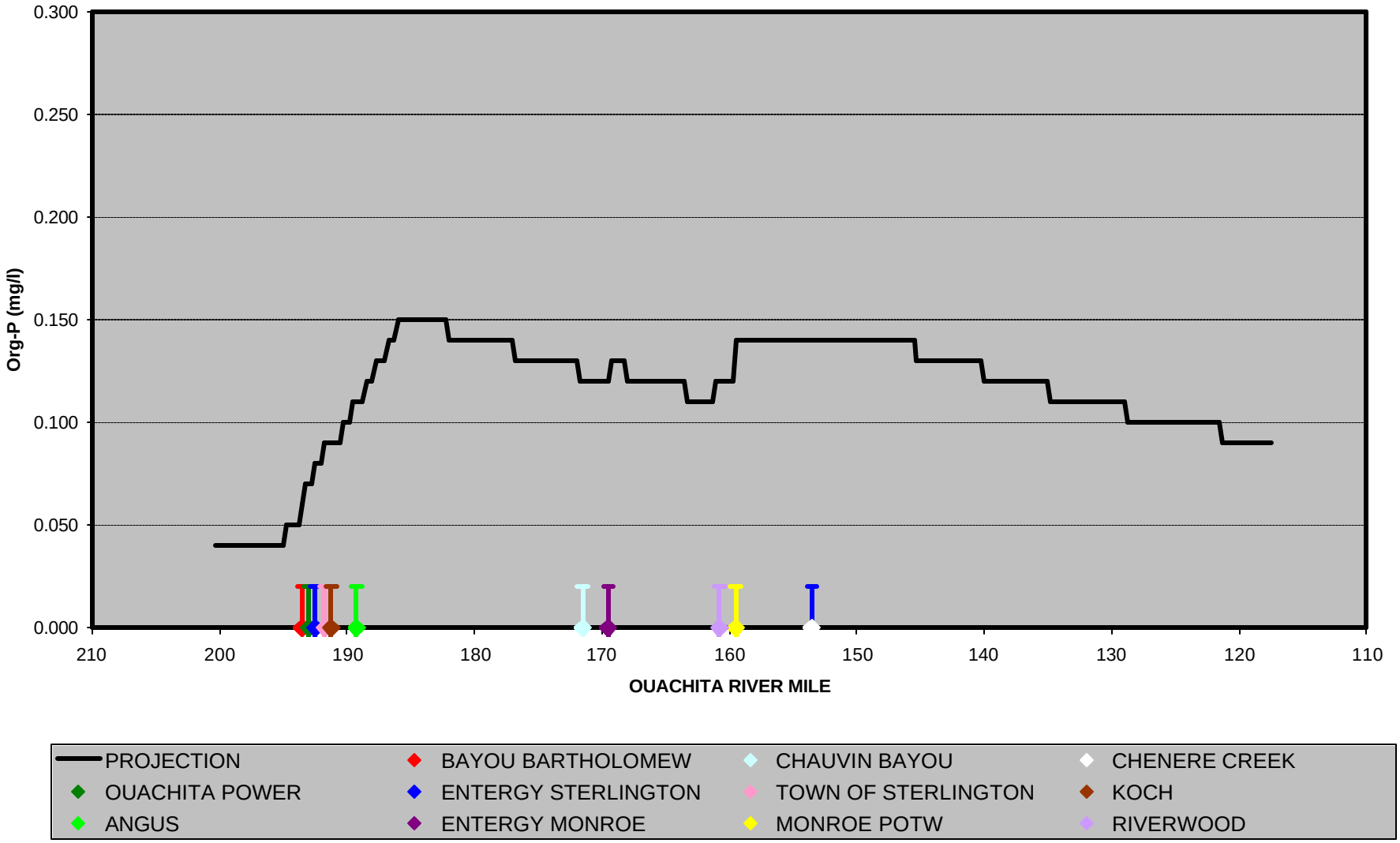

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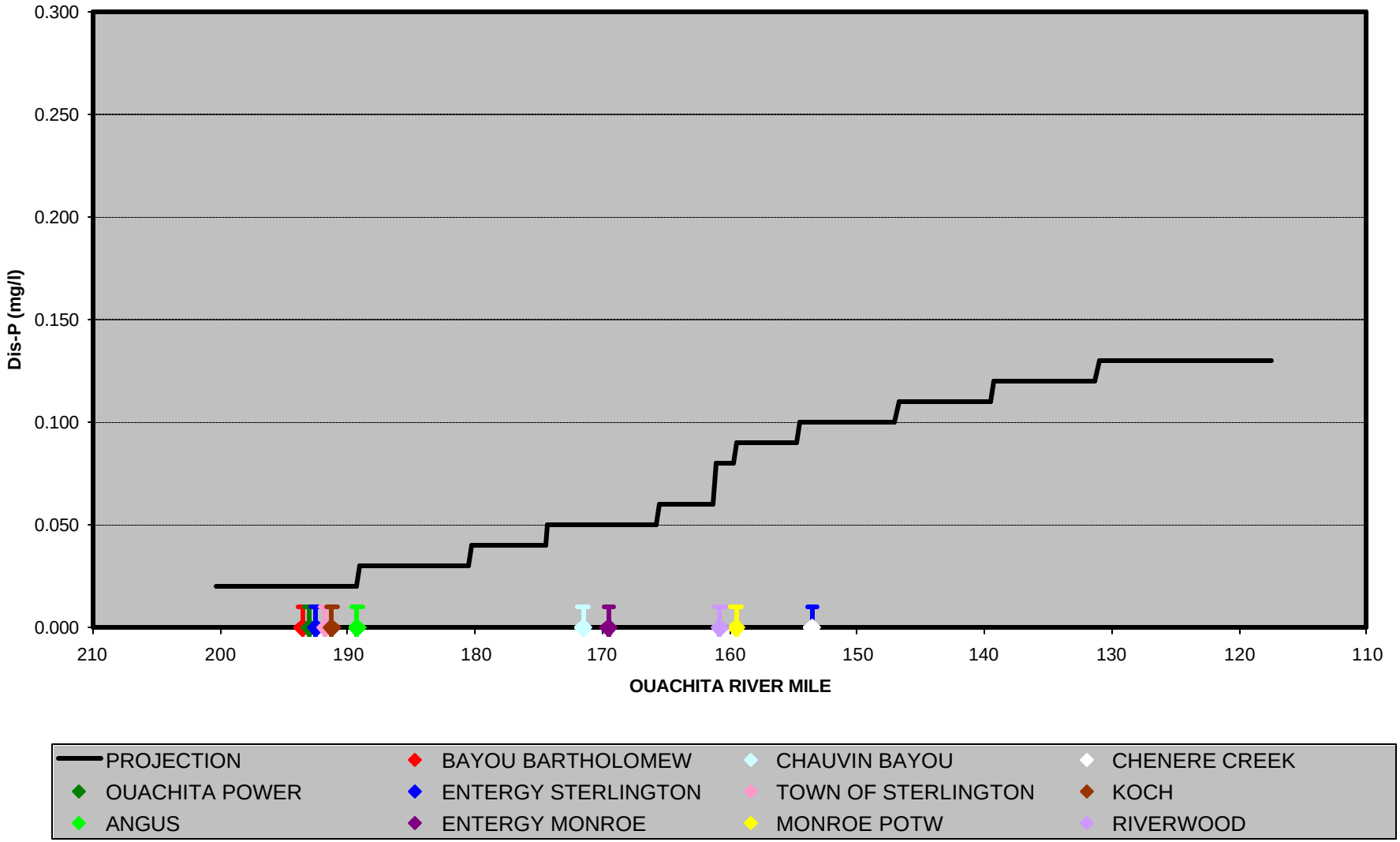
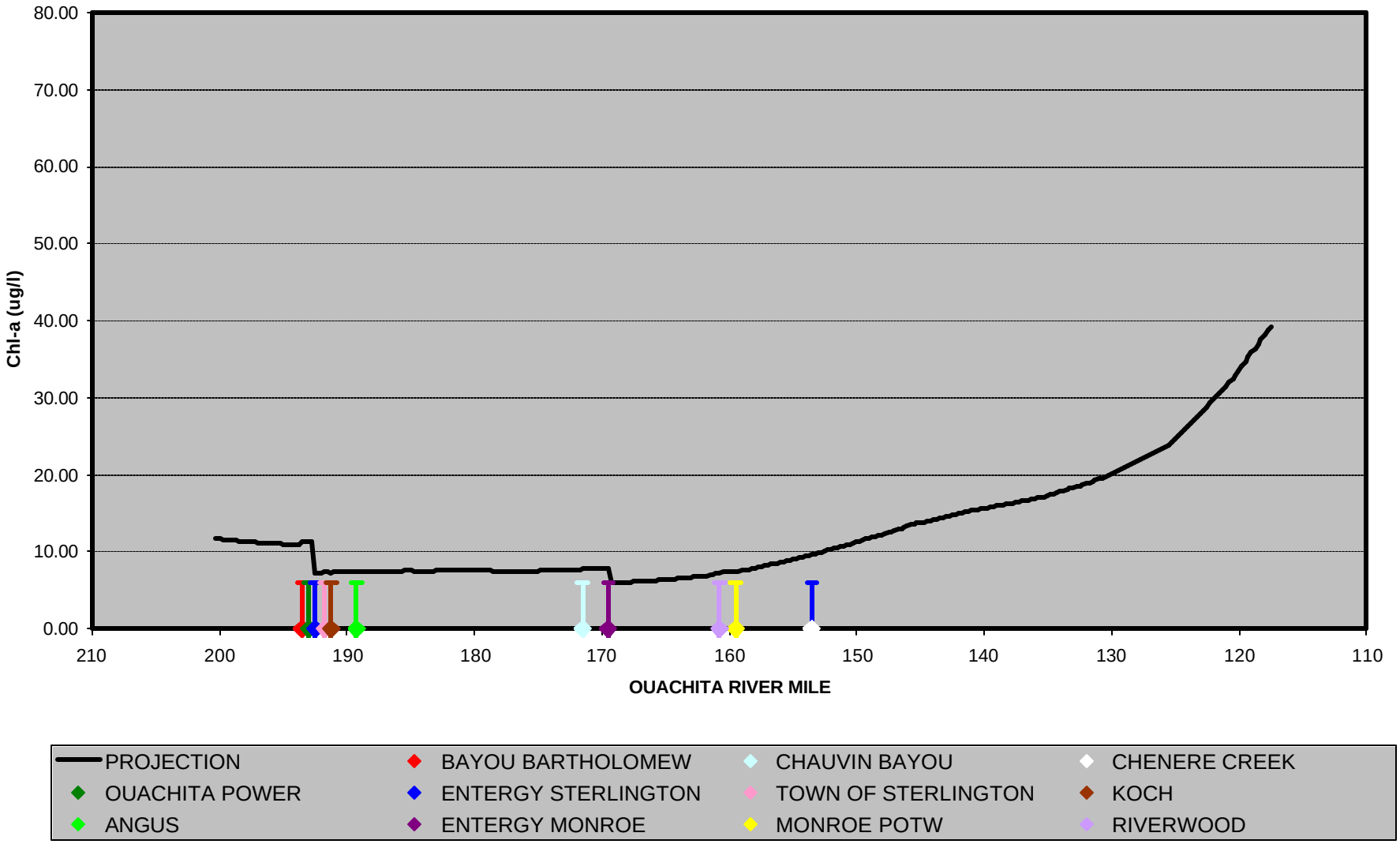
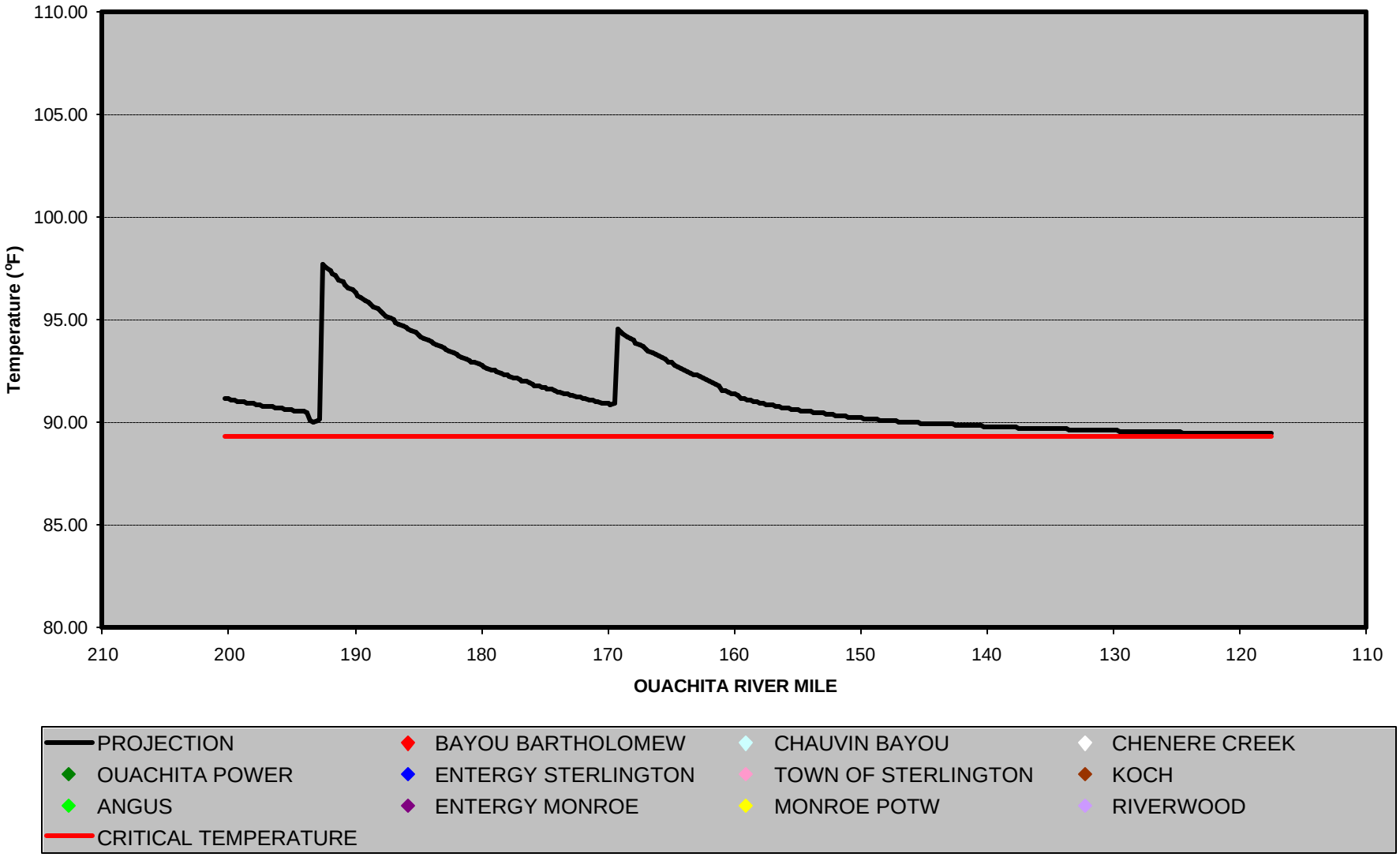


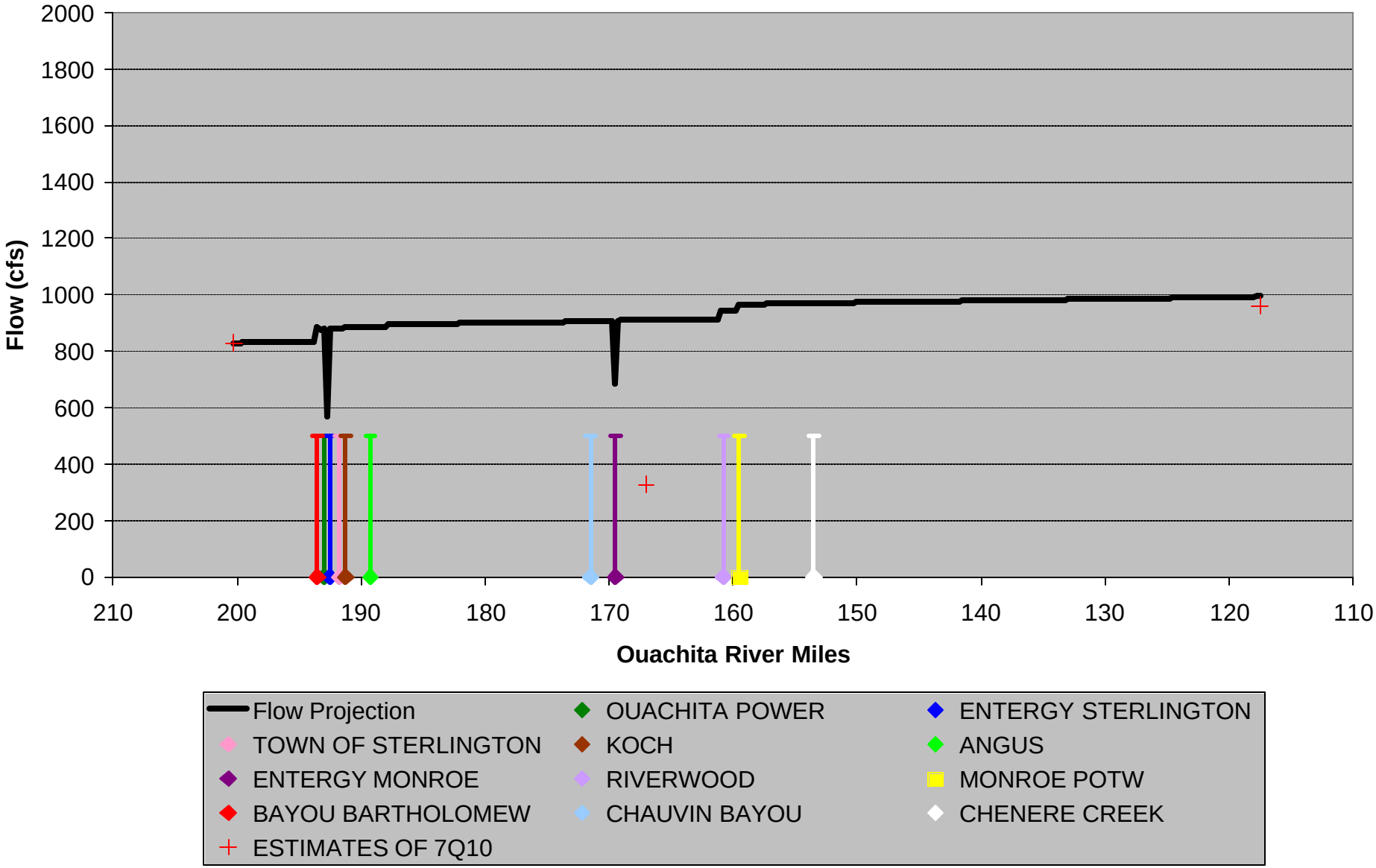
LOWER OUACHITA RIVER AUGUST CHL-A PROJECTION TO MEET CRITERIA



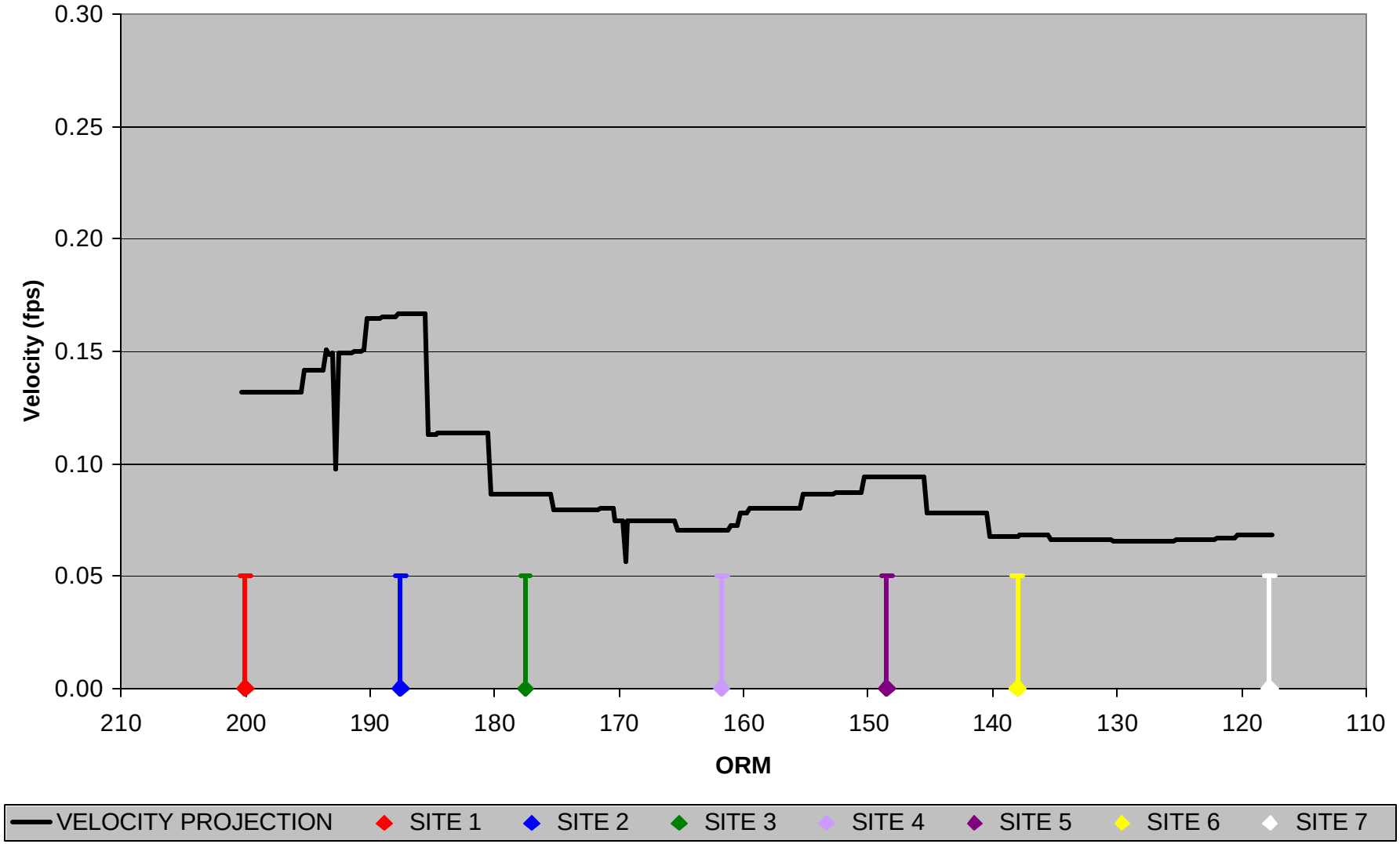
LOWER OUACHITA RIVER AUGUST TEMPERATURE PROJECTION TO MEET CRITERIA



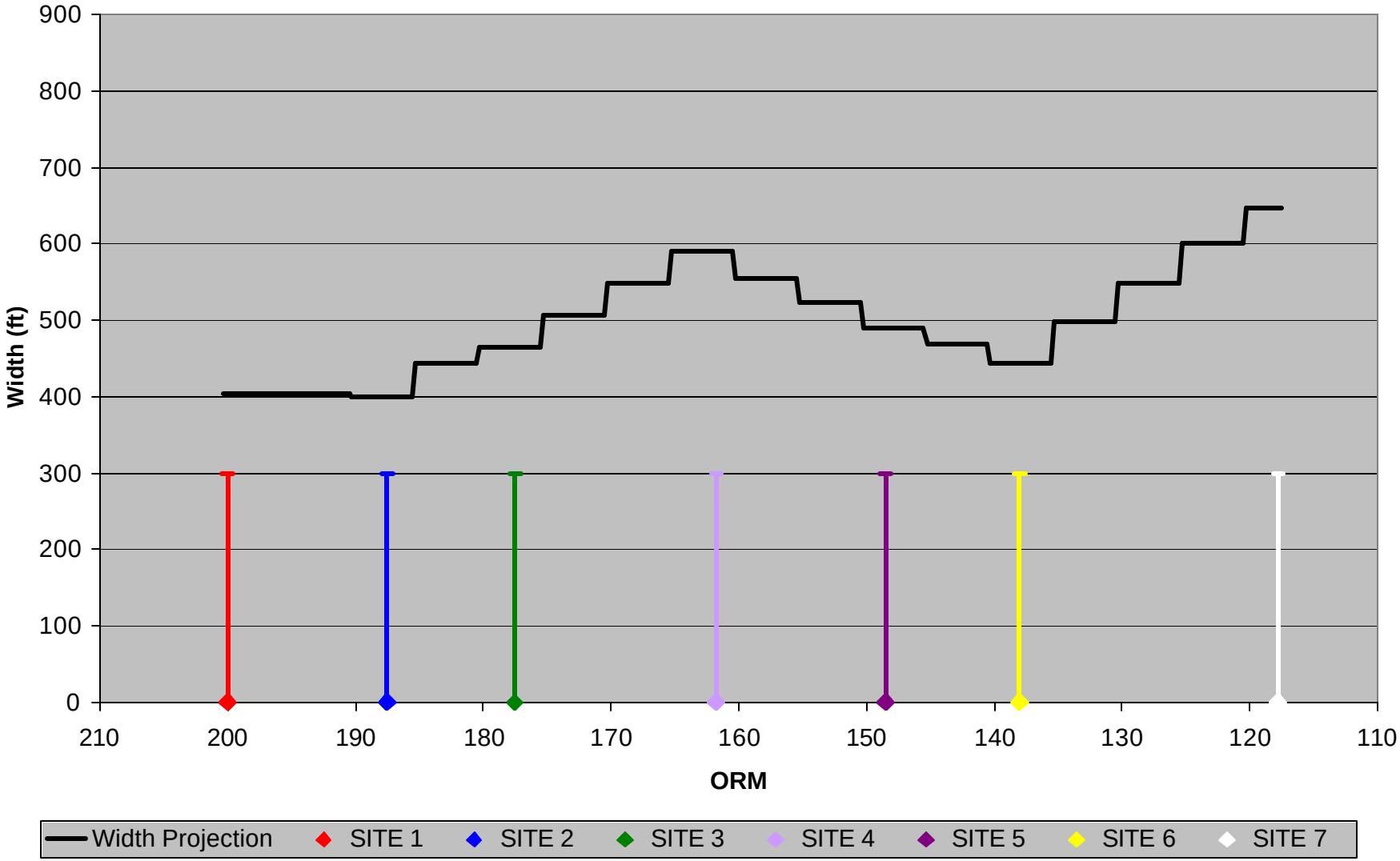
LOWER OUACHITA RIVER SEPTEMBER FLOW PROJECTION



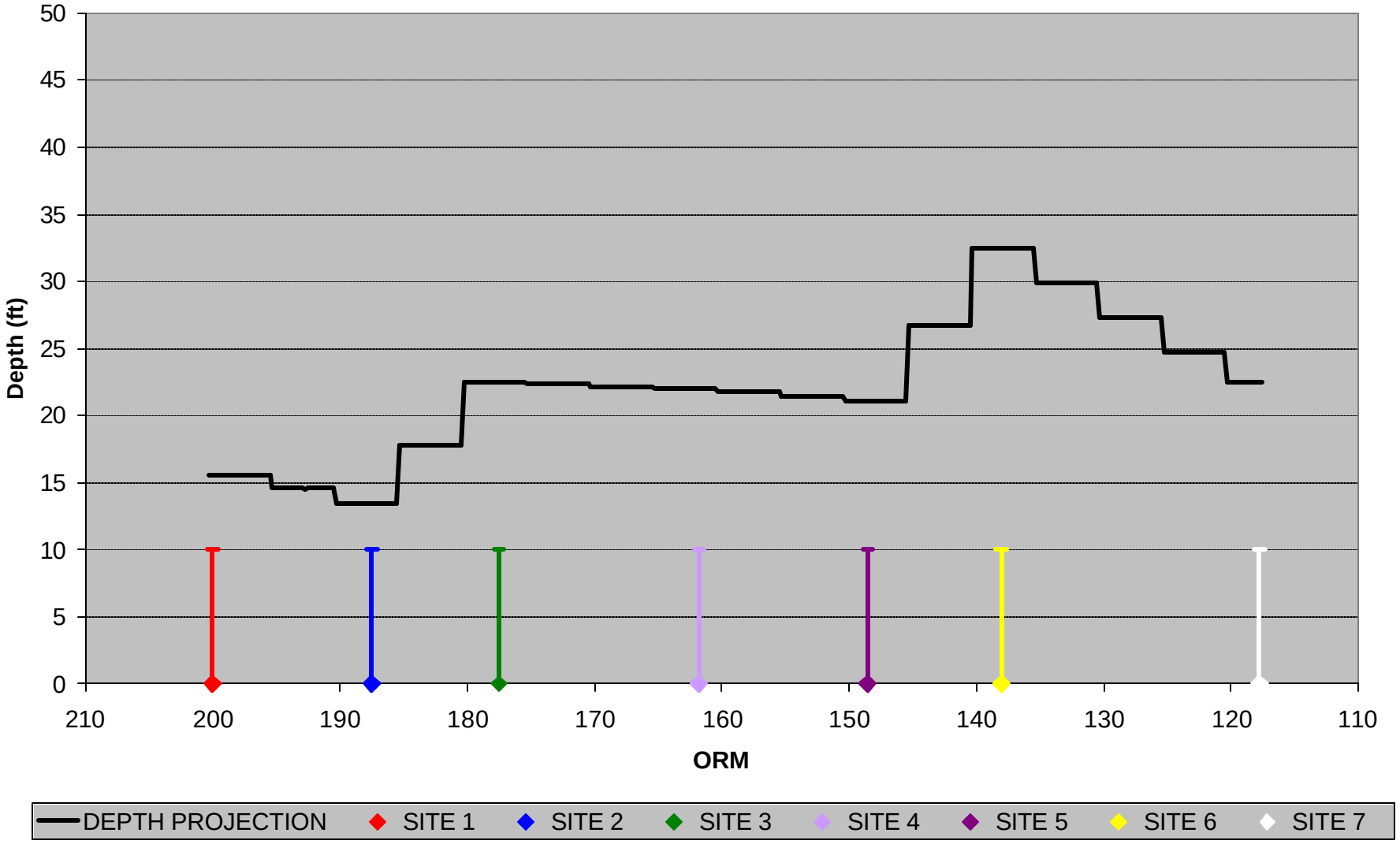
LOWER OUACHITA RIVER SEPTEMBER VELOCITY PROJECTION



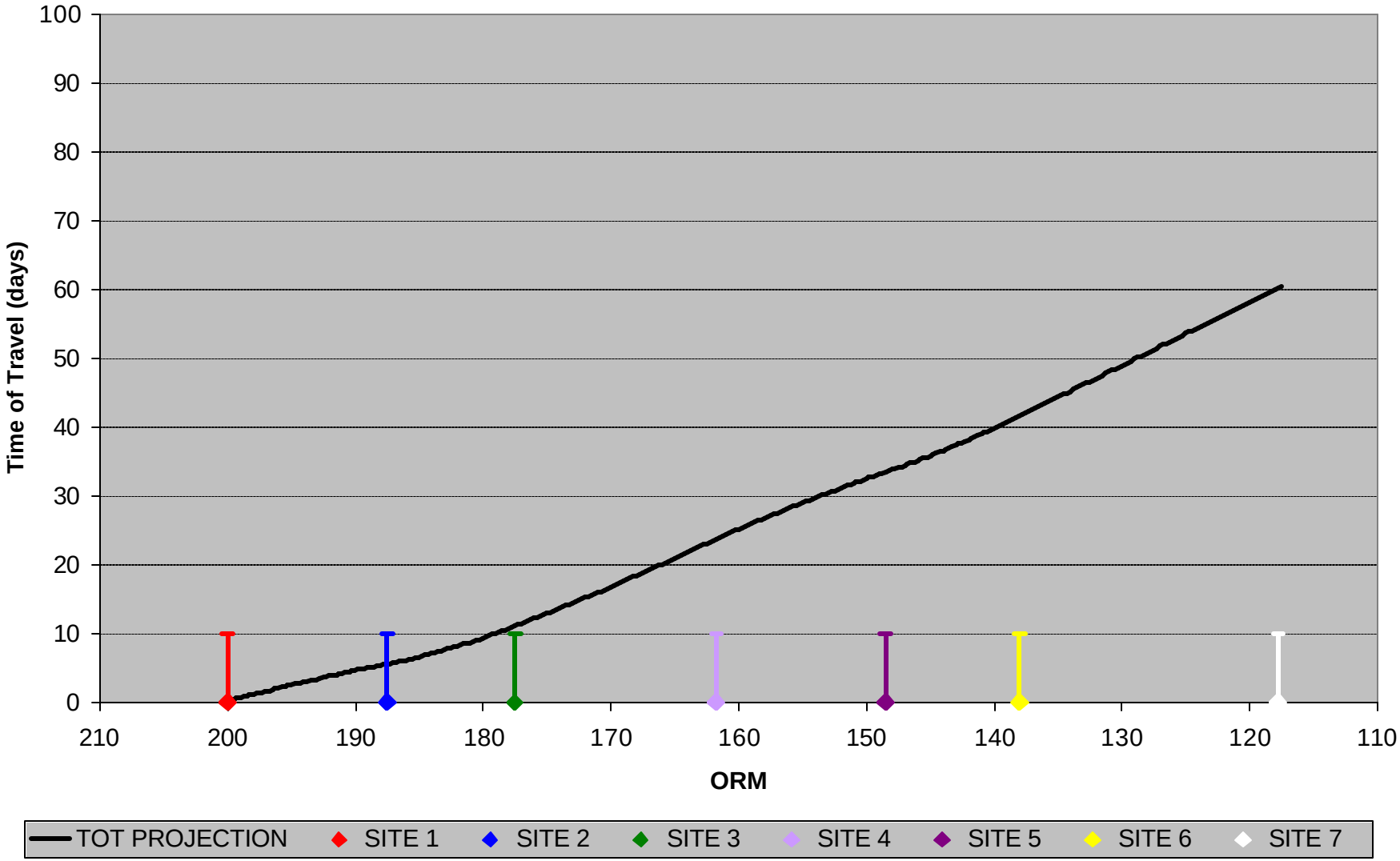
LOWER OUACHITA RIVER SEPTEMBER WIDTH PROJECTION



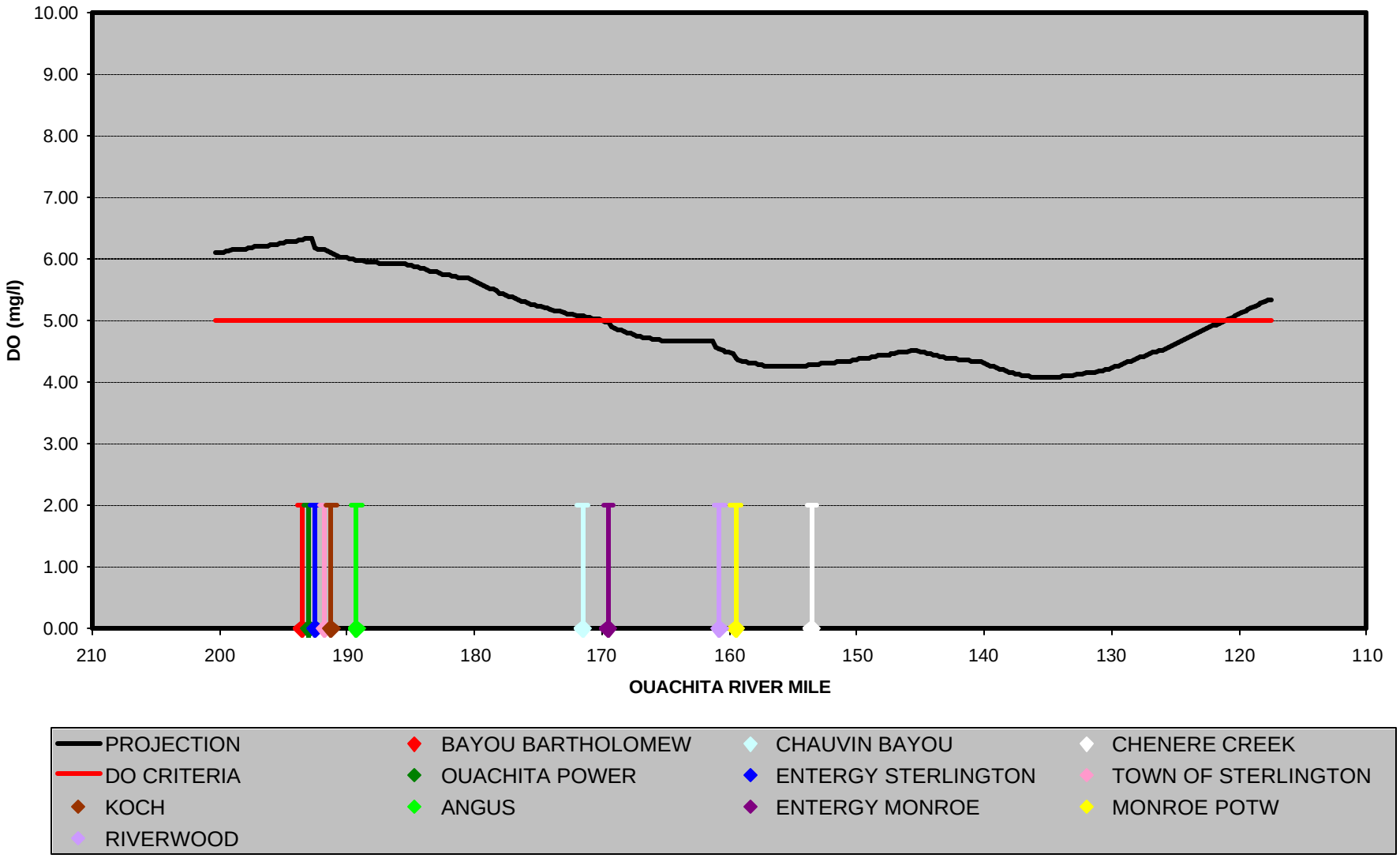
LOWER OUACHITA RIVER SEPTEMBER DEPTH PROJECTION



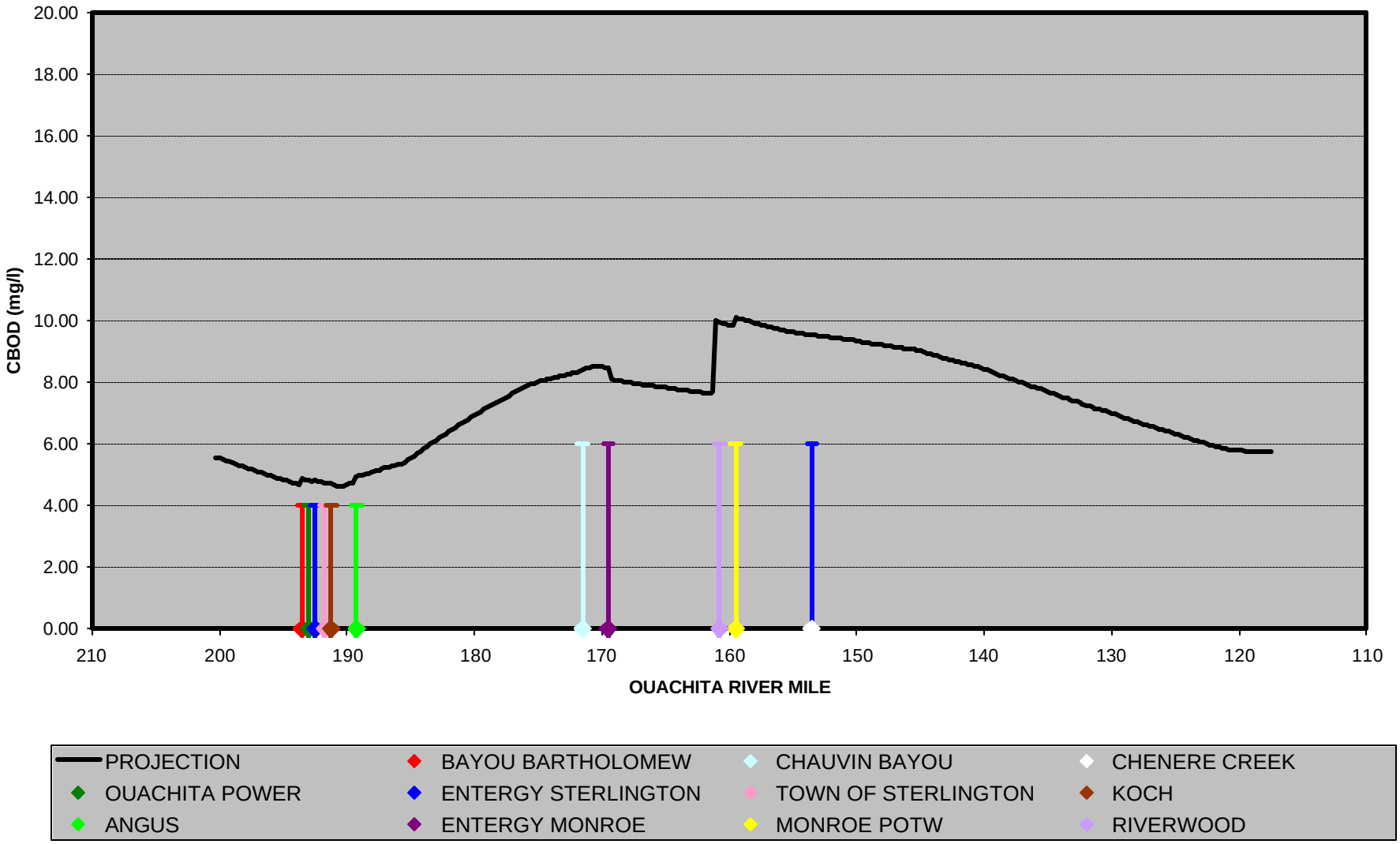
LOWER OUACHITA RIVER SEPTEMBER TIME OF TRAVEL PROJECTION



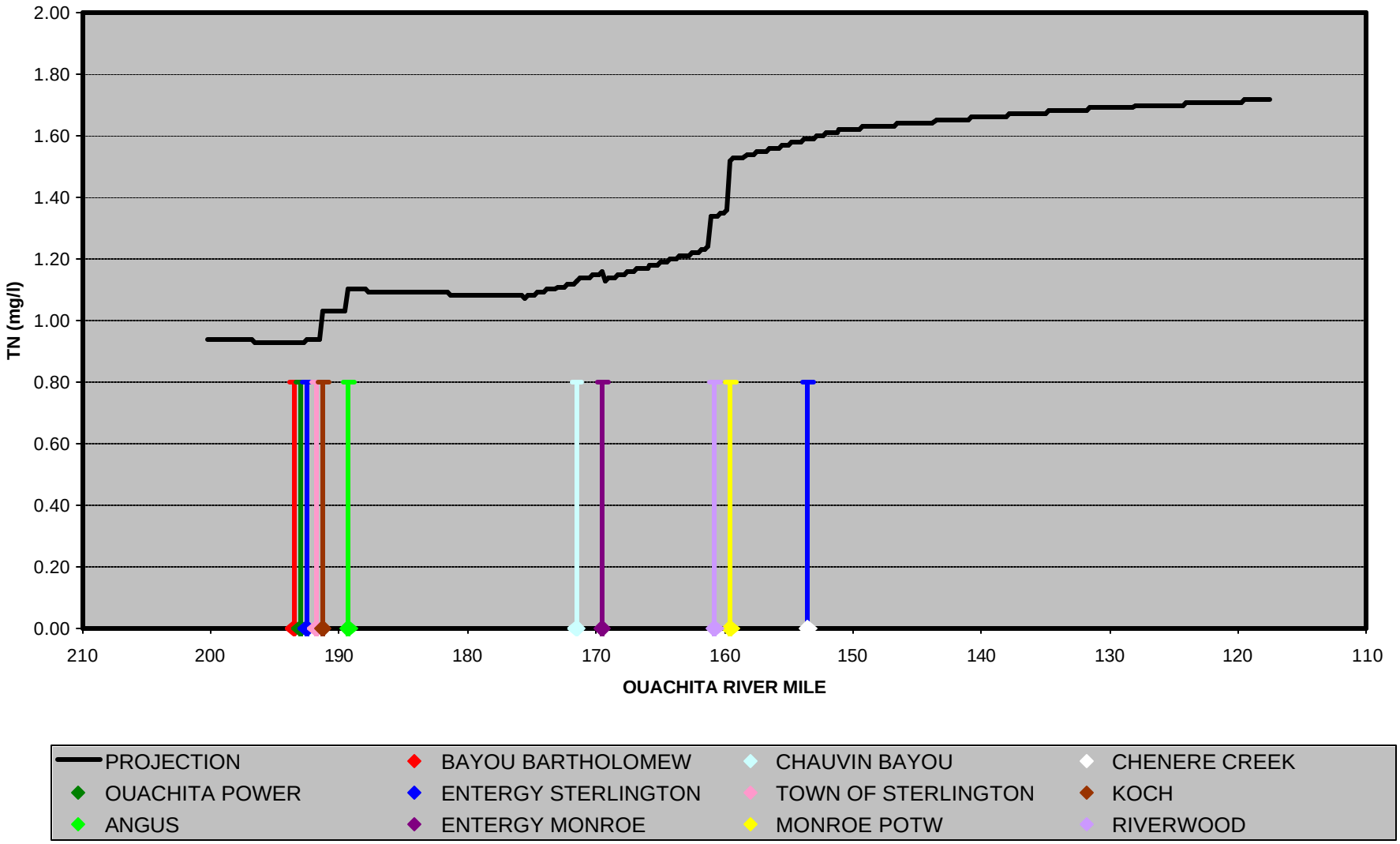
LOWER OUACHITA RIVER SEPTEMBER DO PROJECTION W/O LOAD REDUCTION



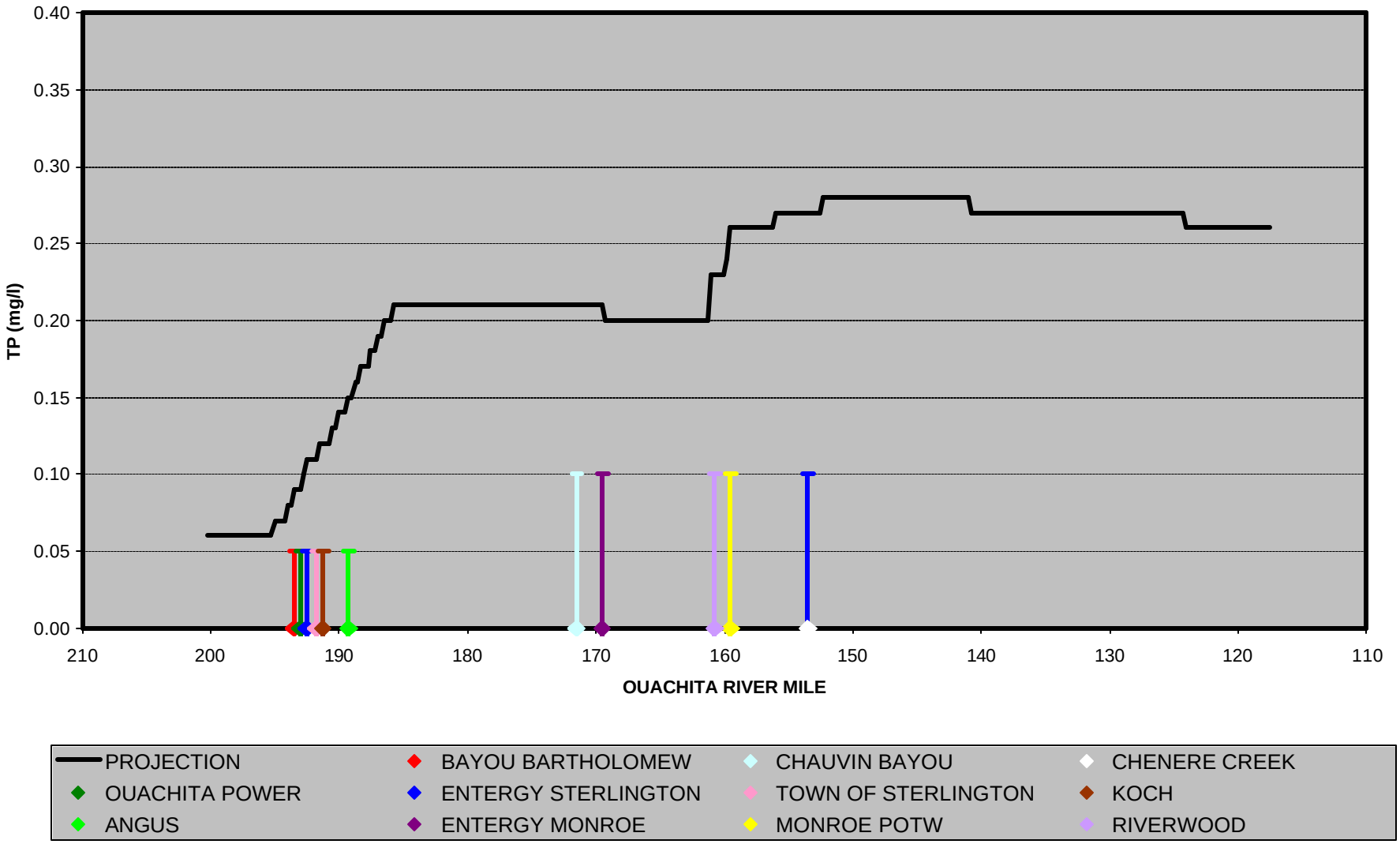
LOWER OUACHITA RIVER SEPTEMBER CBOD PROJECTION W/O LOAD REDUCTION



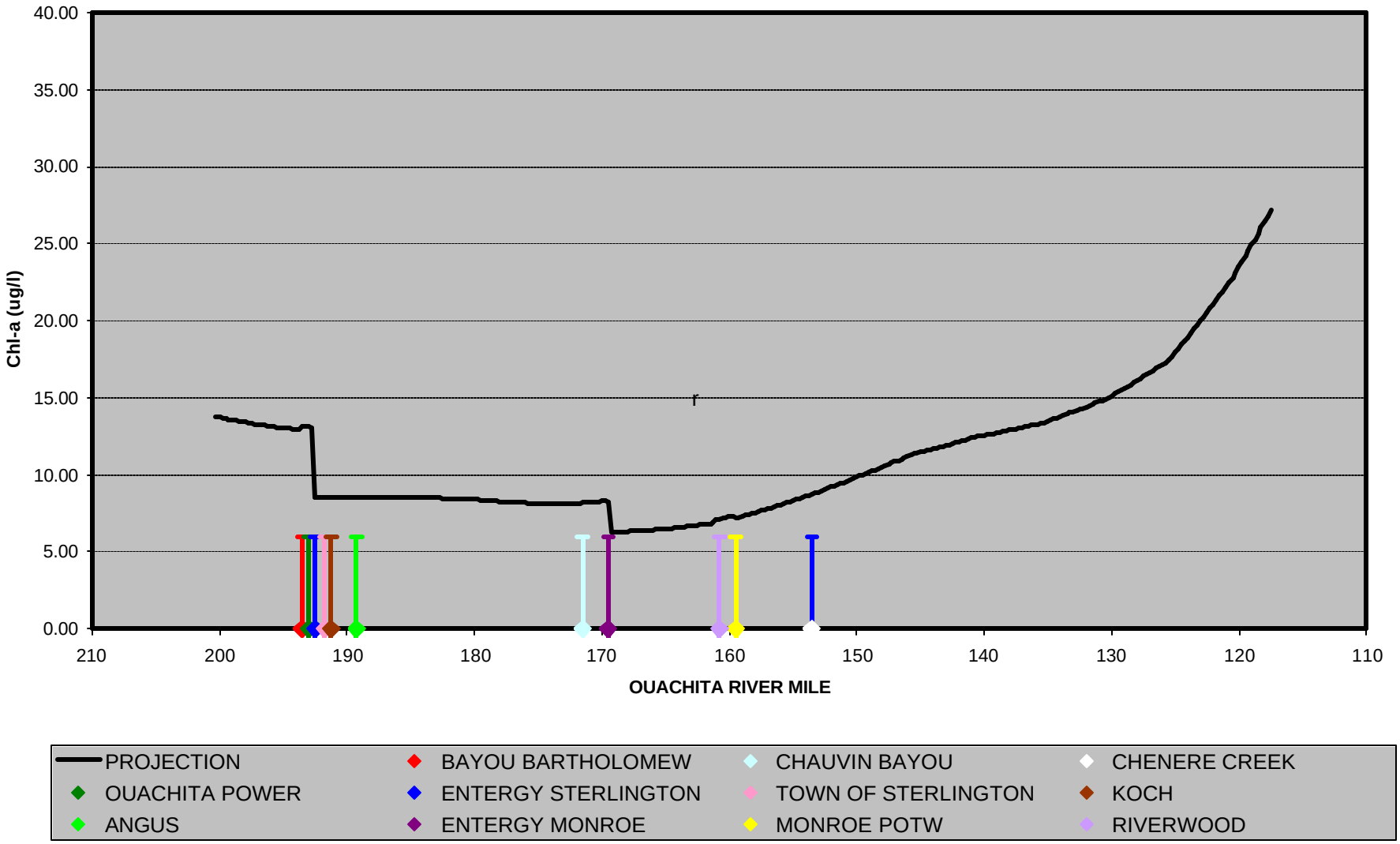
LOWER OUACHITA RIVER SEPTEMBER TN PROJECTION W/O LOAD REDUCTION



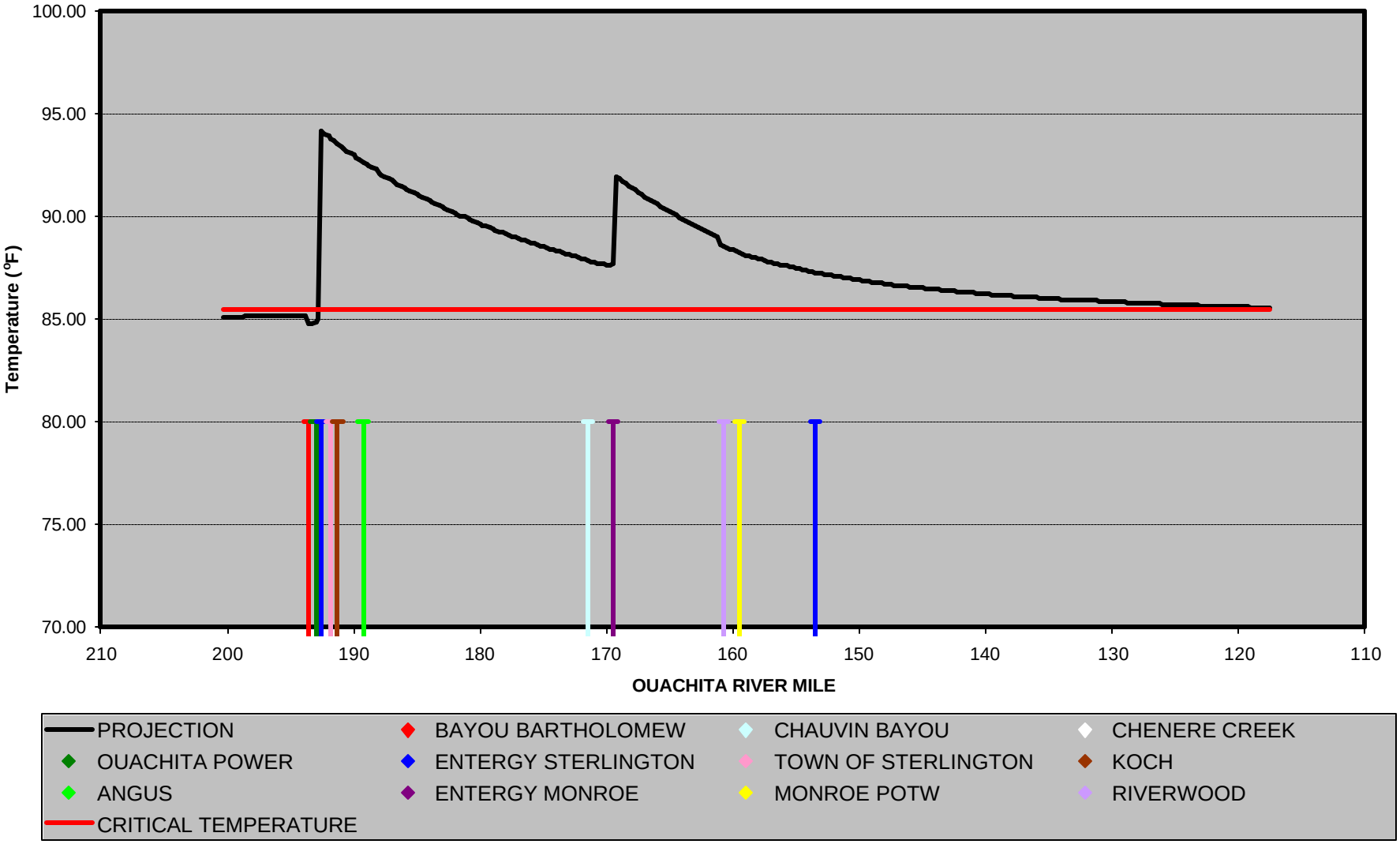
LOWER OUACHITA RIVER SEPTEMBER TP PROJECTION W/O LOAD REDUCTION



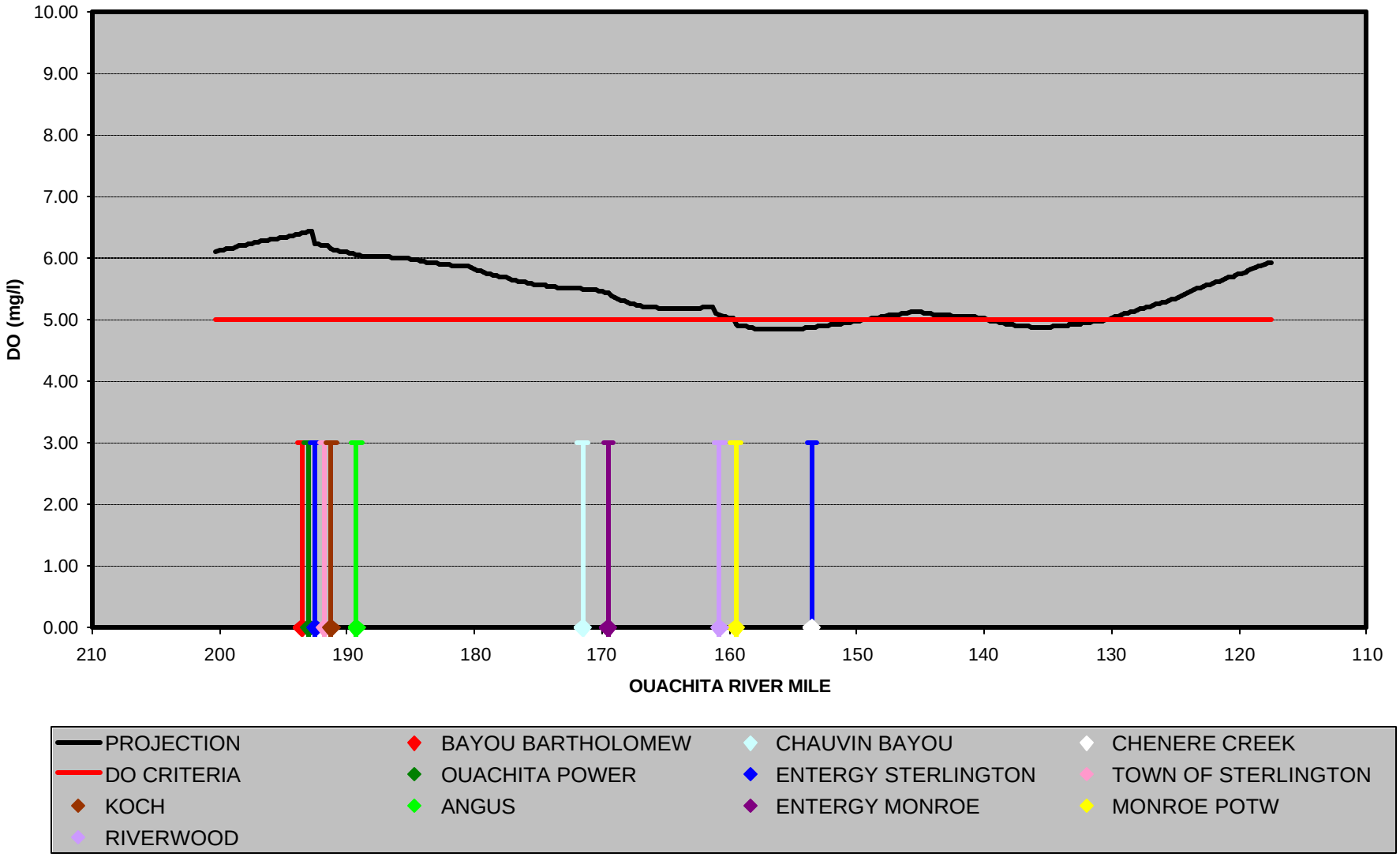
LOWER OUACHITA RIVER SEPTEMBER CHL-A PROJECTION W/O LOAD REDUCTION



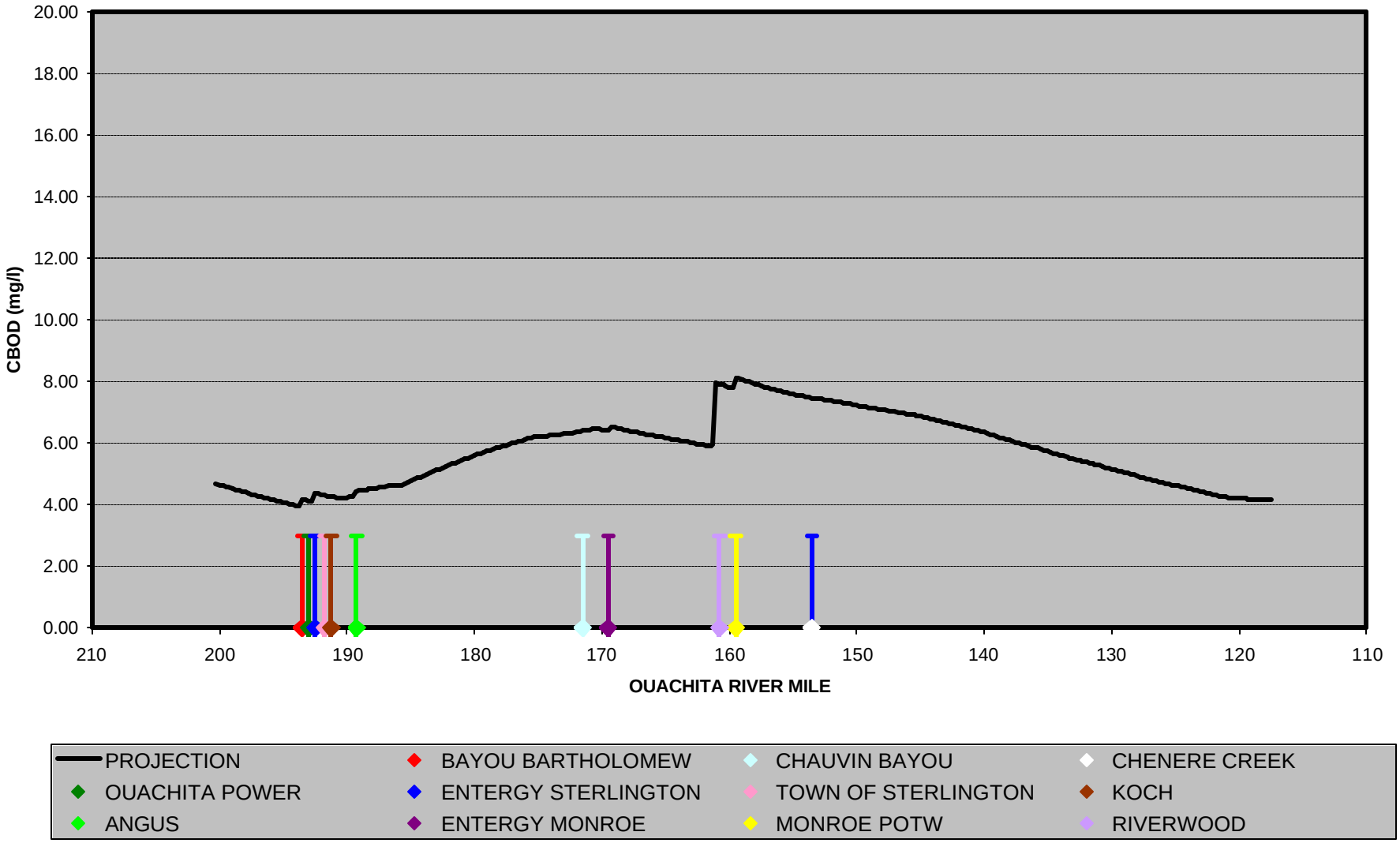
LOWER OUACHITA RIVER SEPTEMBER TEMPERATURE PROJECTION W/O LOAD REDUCTION



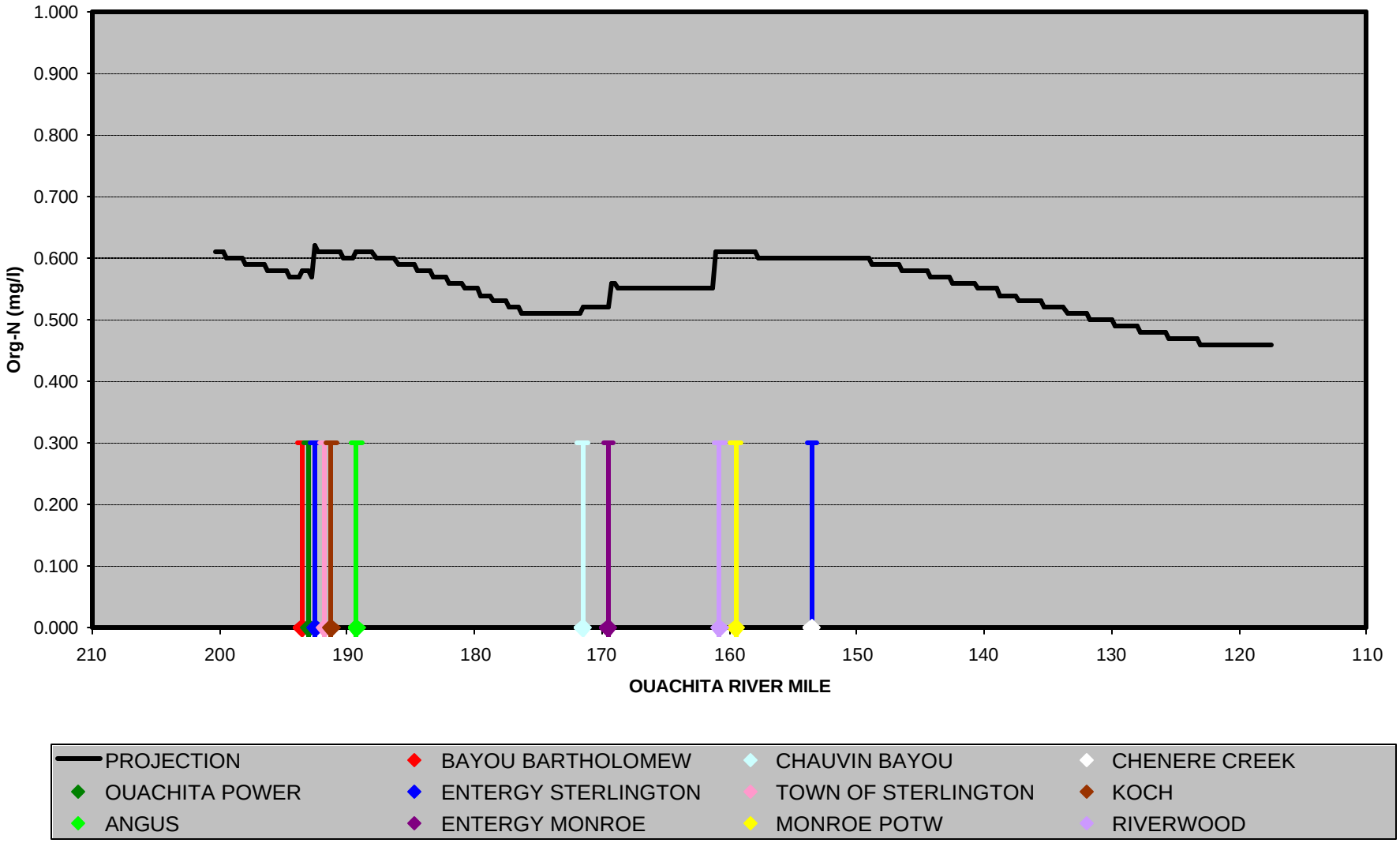
LOWER OUACHITA RIVER SEPTEMBER DO PROJECTION TO MEET CRITERIA



LOWER OUACHITA RIVER SEPTEMBER CBOD PROJECTION TO MEET CRITERIA



LOWER OUACHITA RIVER SEPTEMBER ORG-N PROJECTION TO MEET CRITERIA



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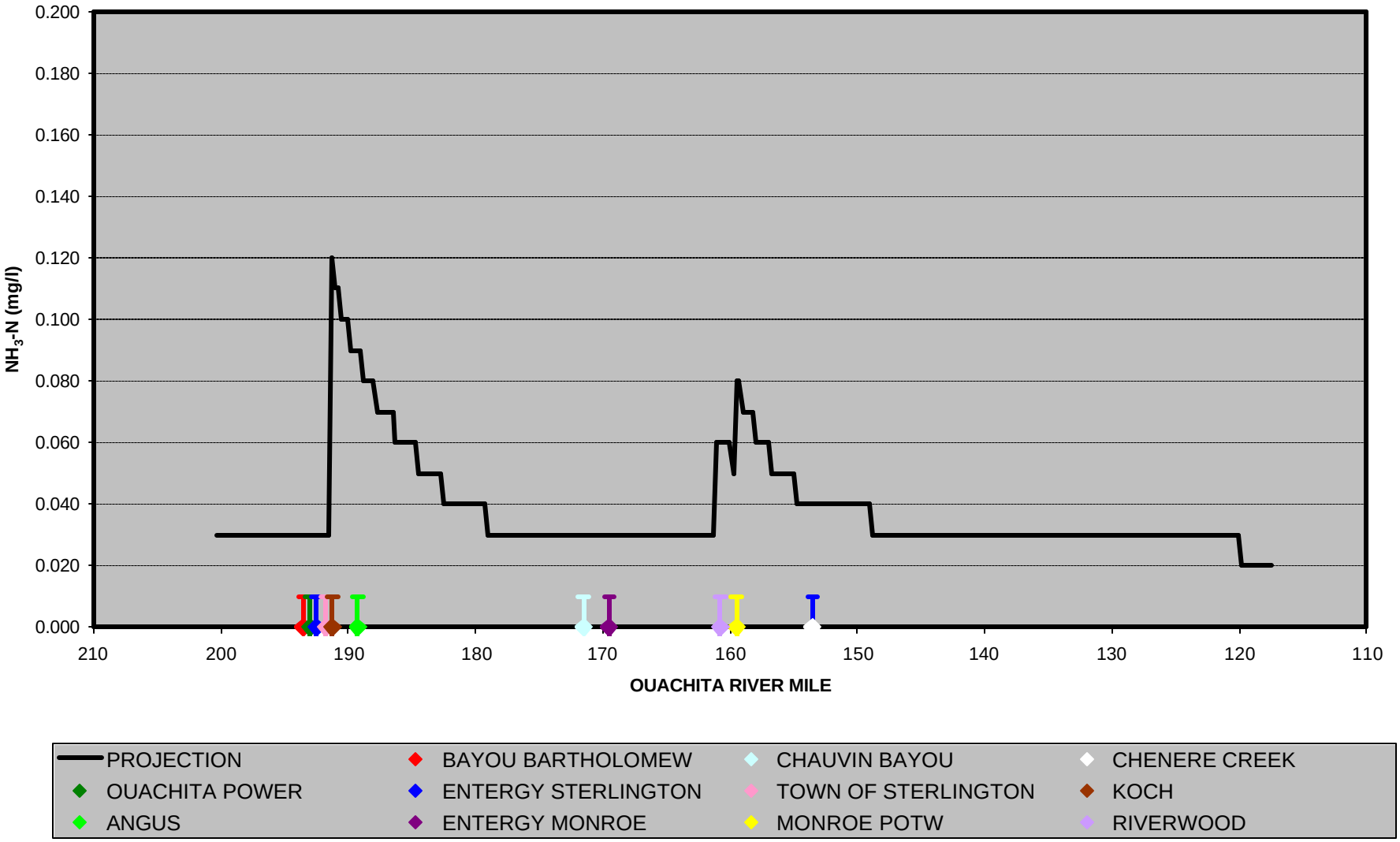
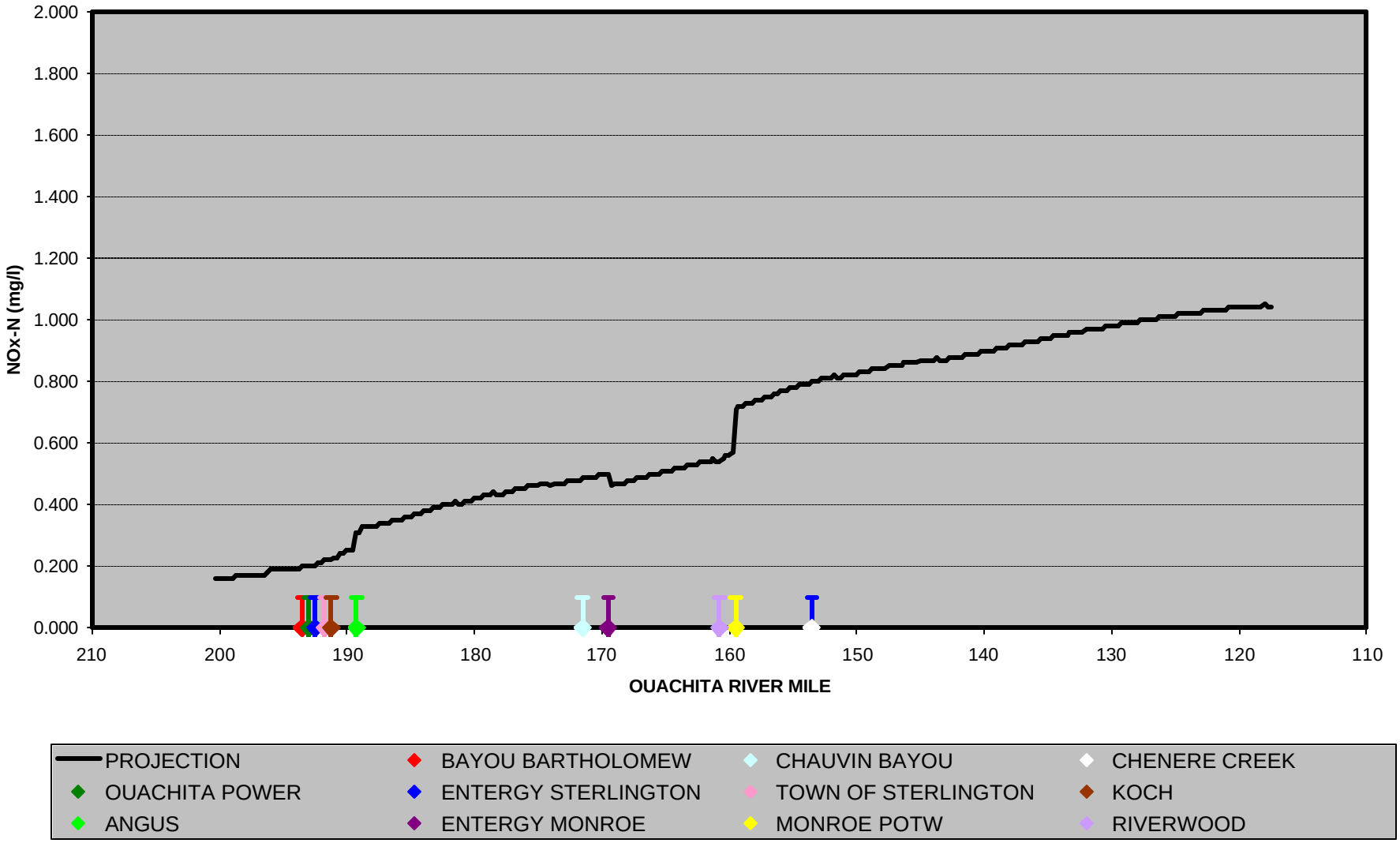
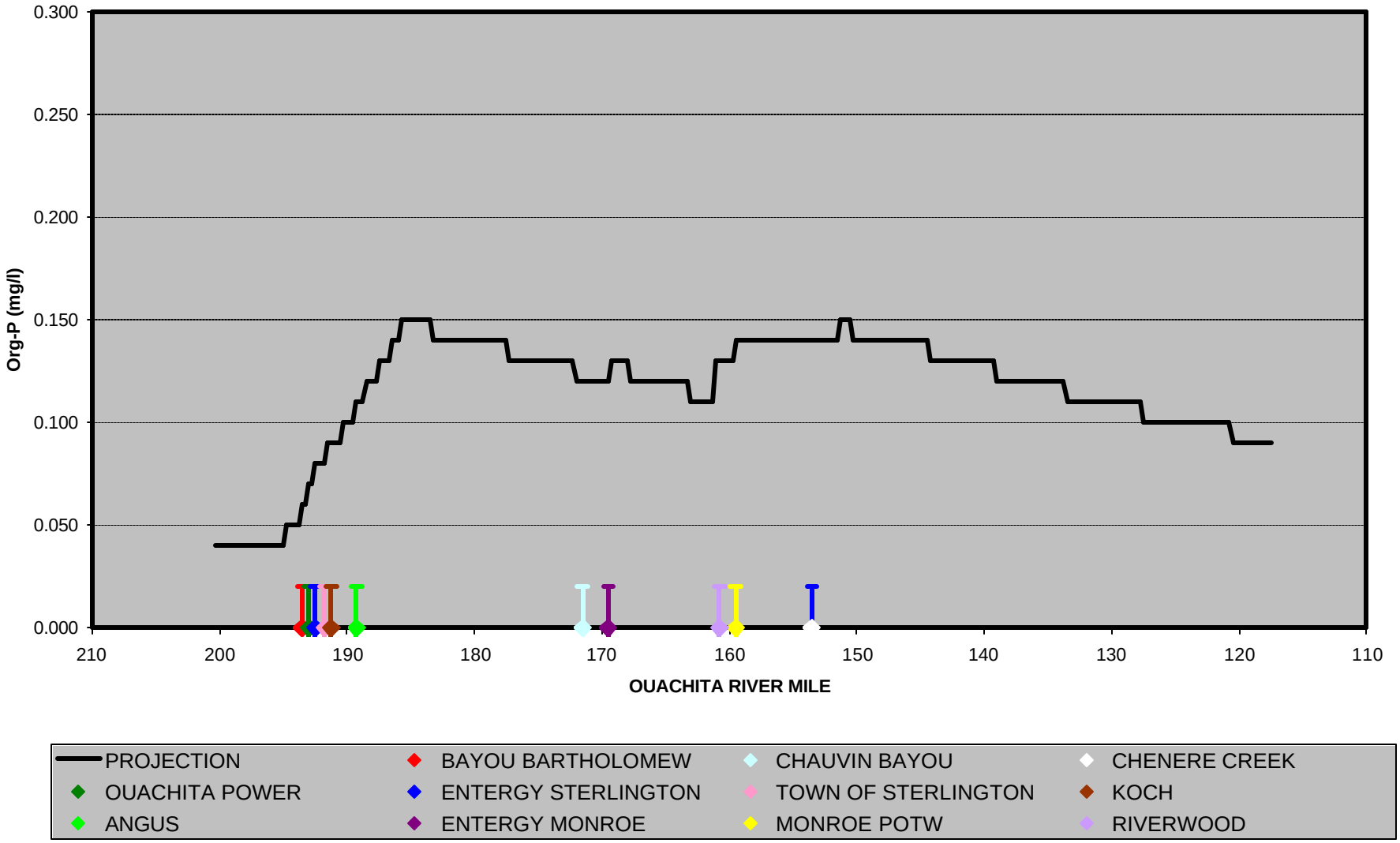


LOWER OUACHITA RIVER SEPTEMBER NOx-N PROJECTION TO MEET CRITERIA



LOWER OUACHITA RIVER SEPTEMBER ORG-P PROJECTION TO MEET CRITERIA



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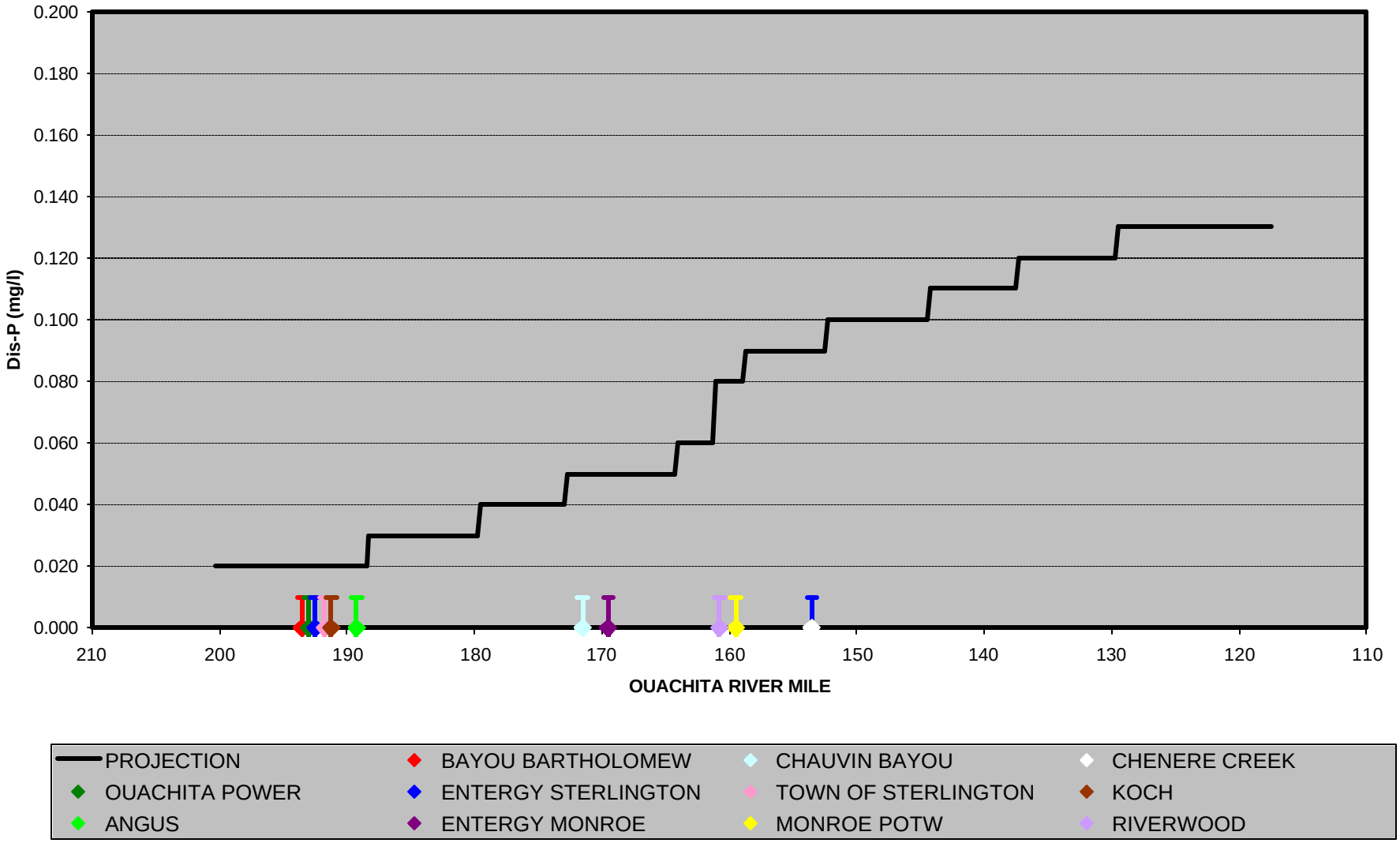
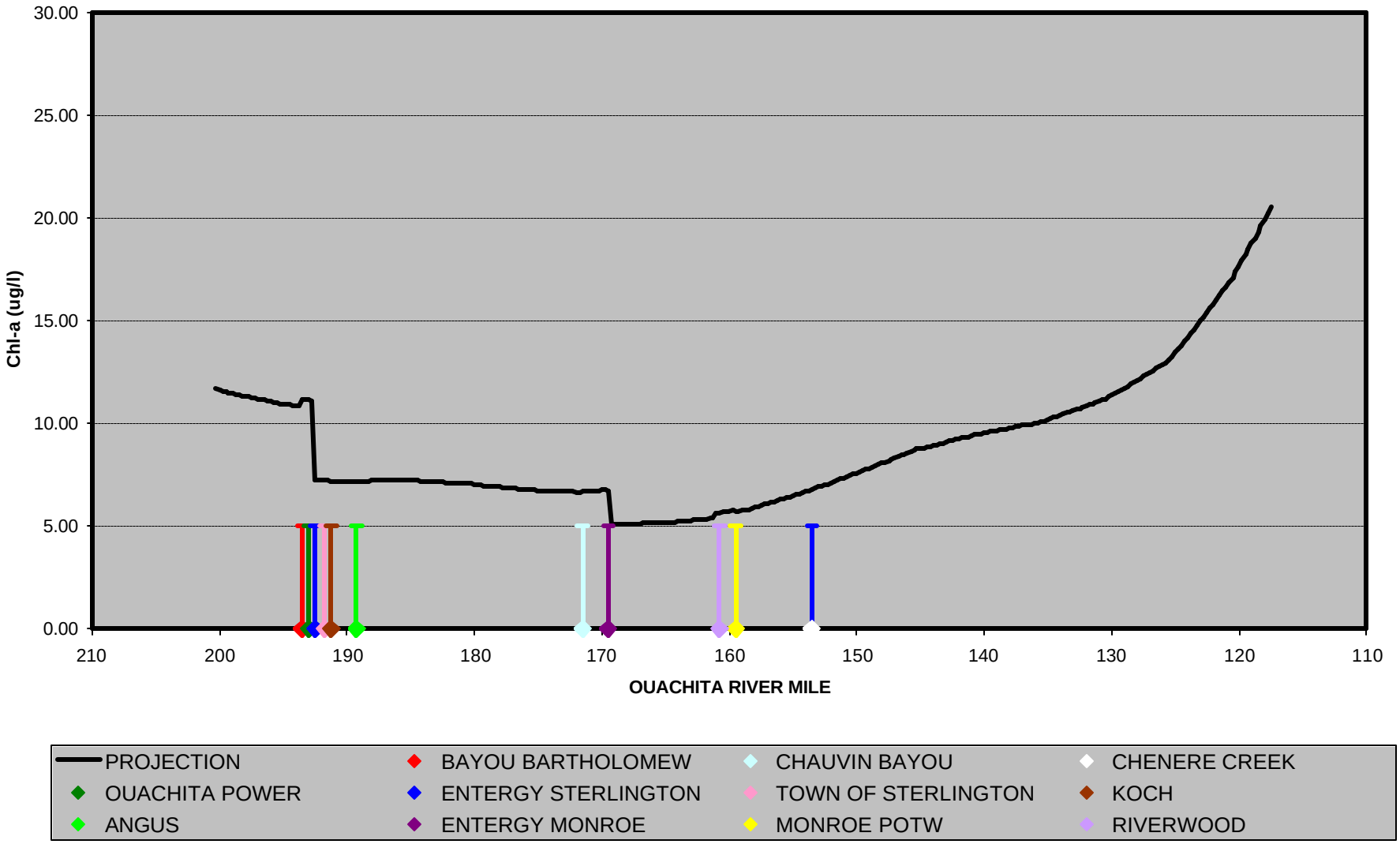
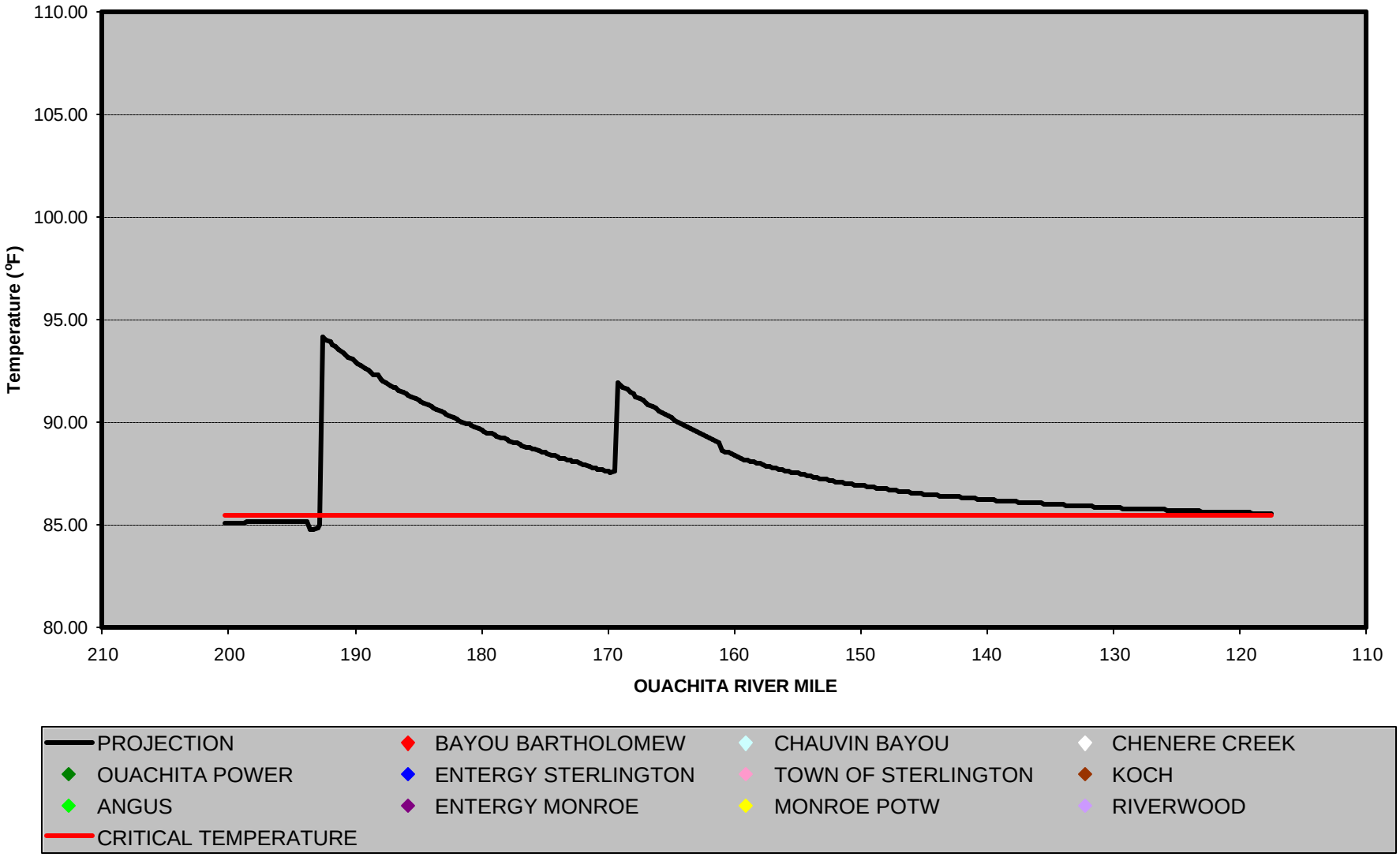


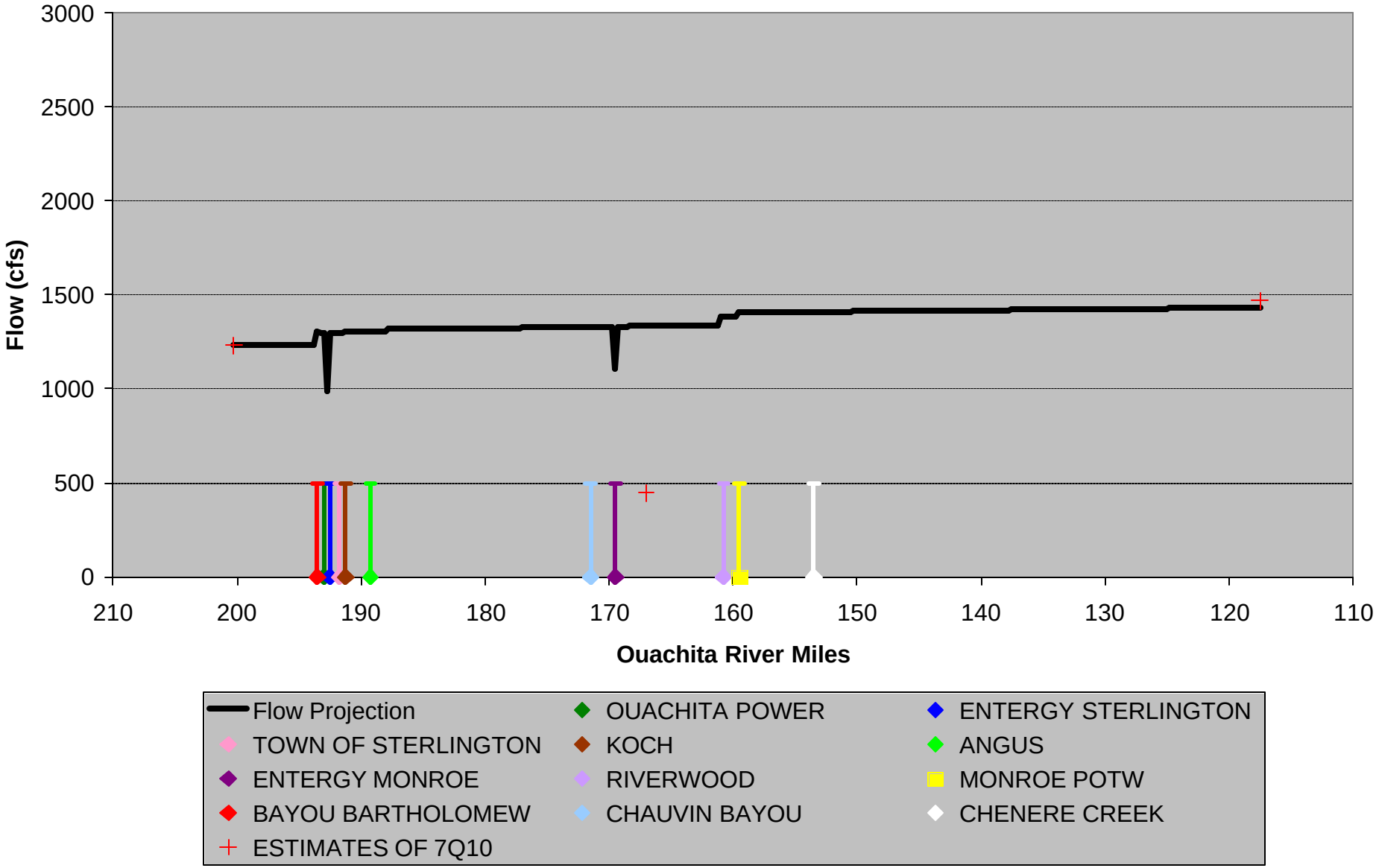
LOWER OUACHITA RIVER SEPTEMBER CHL-A PROJECTION TO MEET CRITERIA



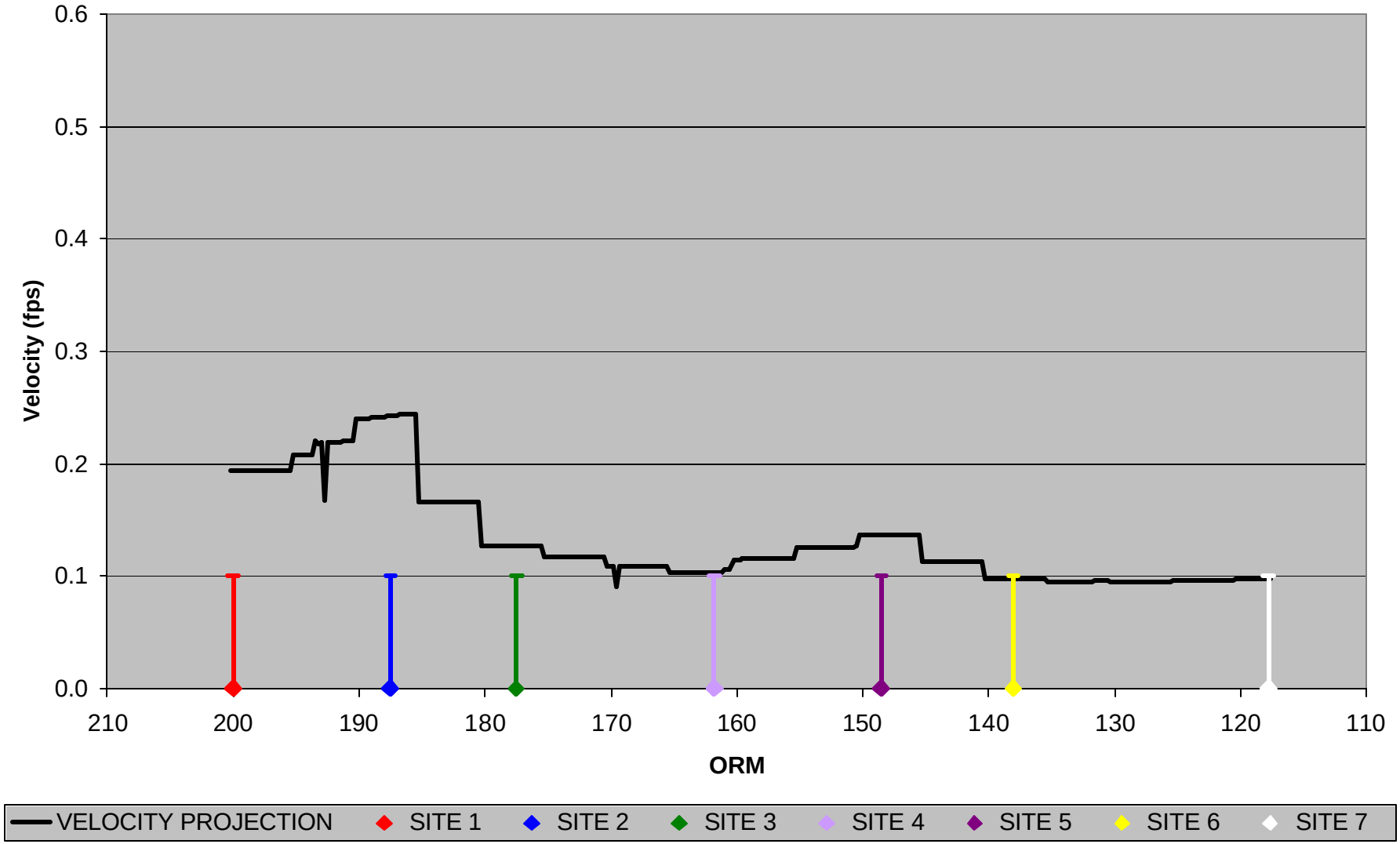
LOWER OUACHITA RIVER SEPTEMBER TEMPERATURE PROJECTION TO MEET CRITERIA



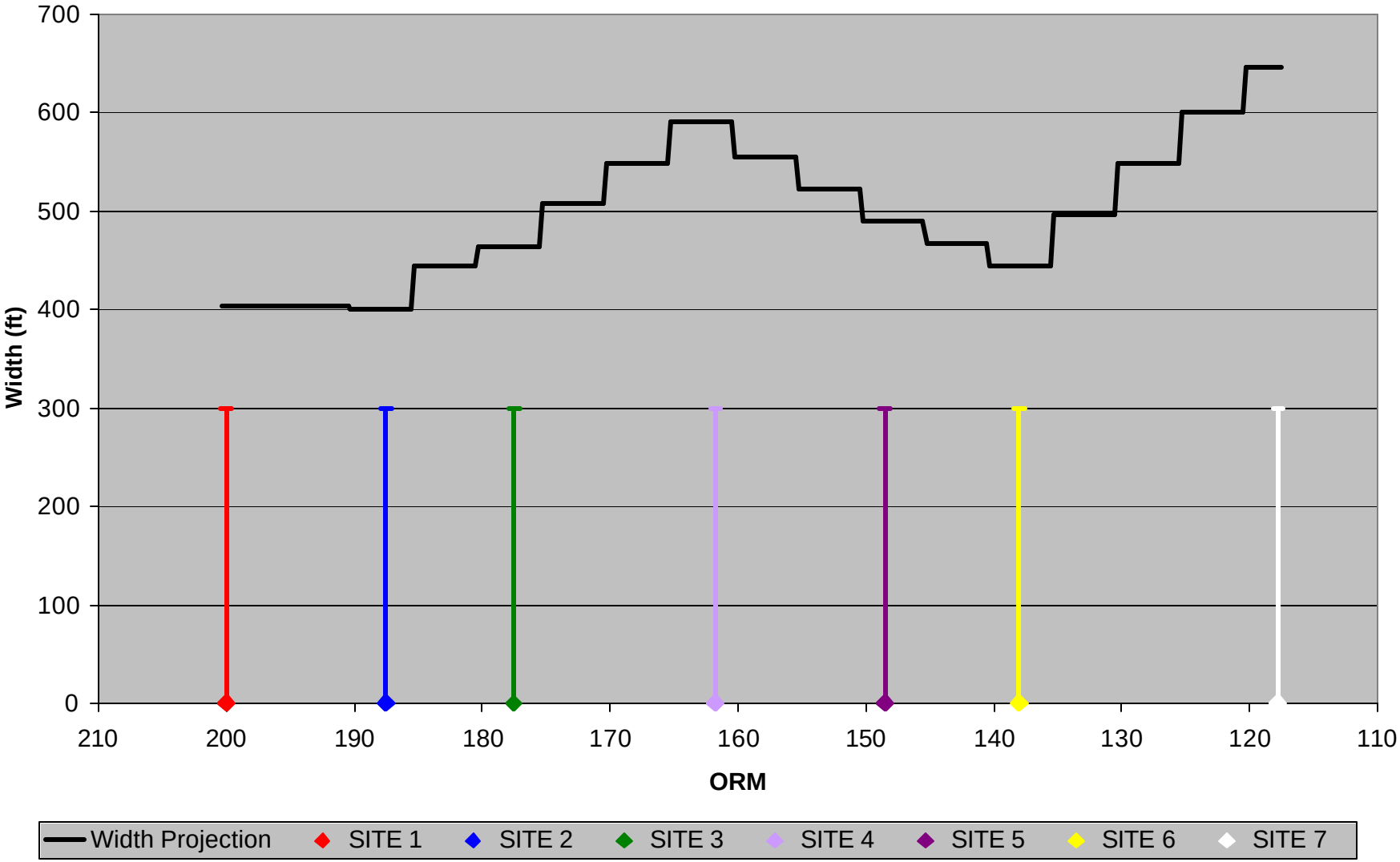
LOWER OUACHITA RIVER NOVEMBER FLOW PROJECTION



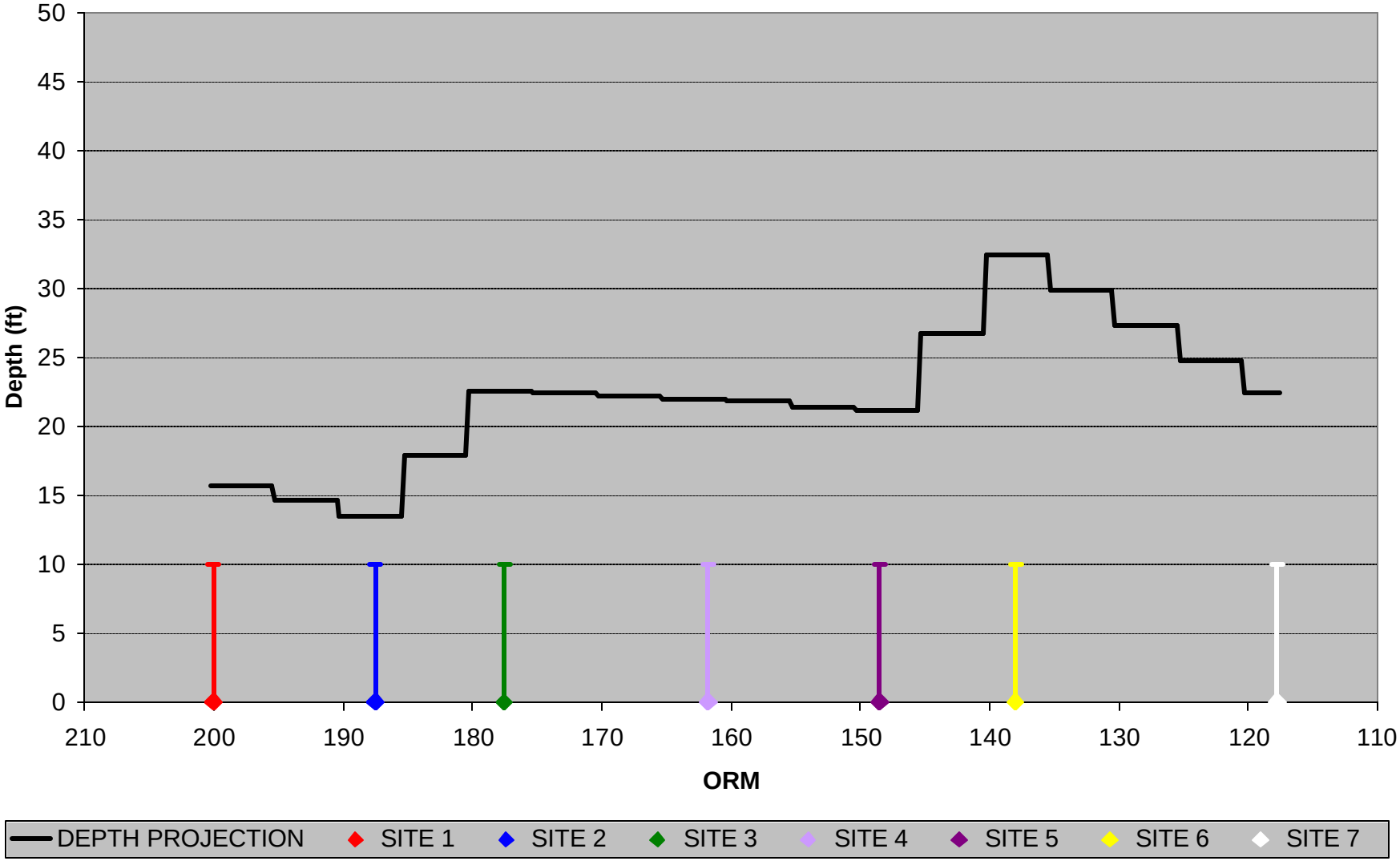
LOWER OUACHITA RIVER NOVEMBER VELOCITY PROJECTION



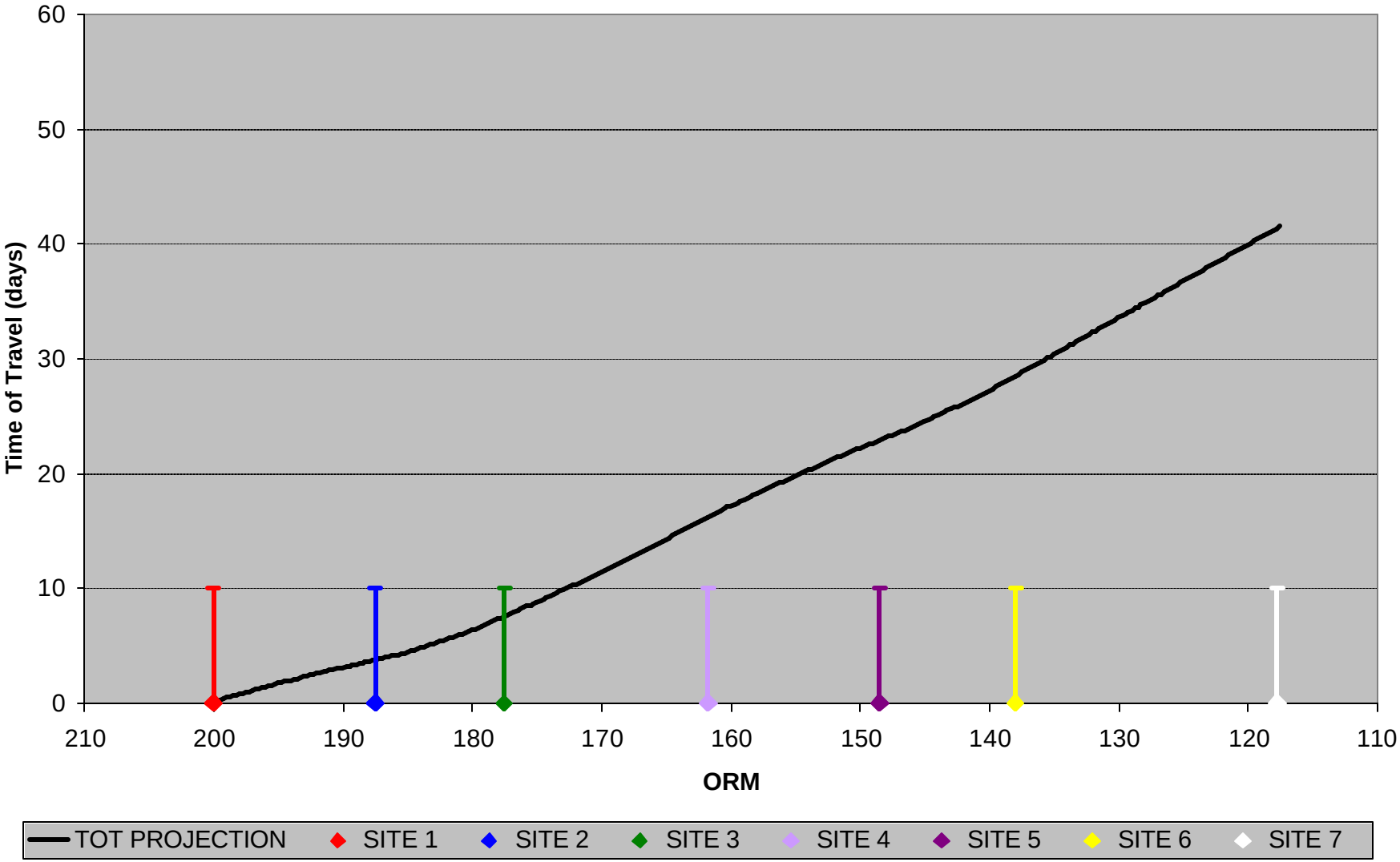
LOWER OUACHITA RIVER NOVEMBER WIDTH PROJECTION



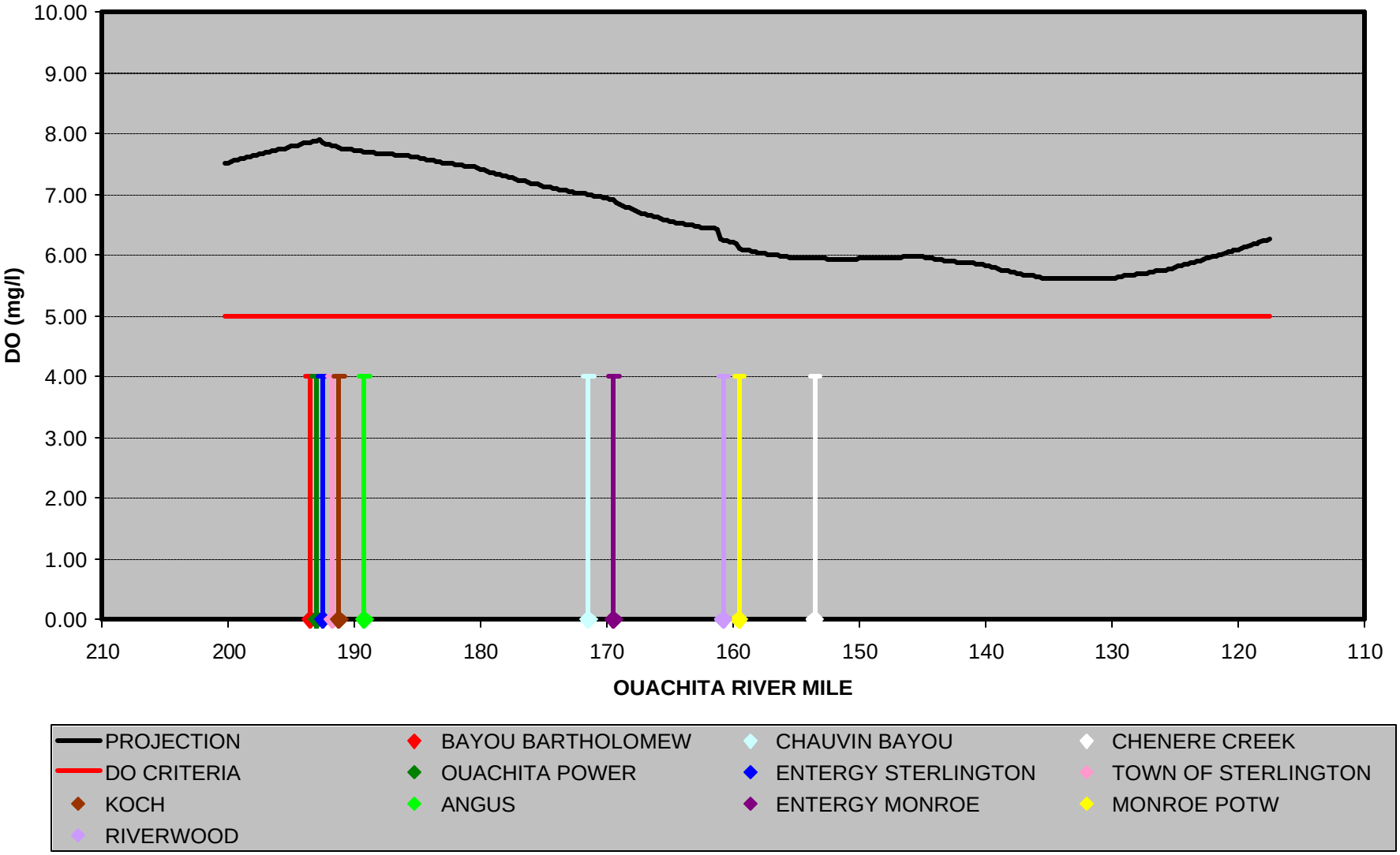
LOWER OUACHITA RIVER NOVEMBER DEPTH PROJECTION



LOWER OUACHITA RIVER NOVEMBER TIME OF TRAVEL PROJECTION



LOWER OUACHITA RIVER NOVEMBER DO PROJECTION W/O LOAD REDUCTION



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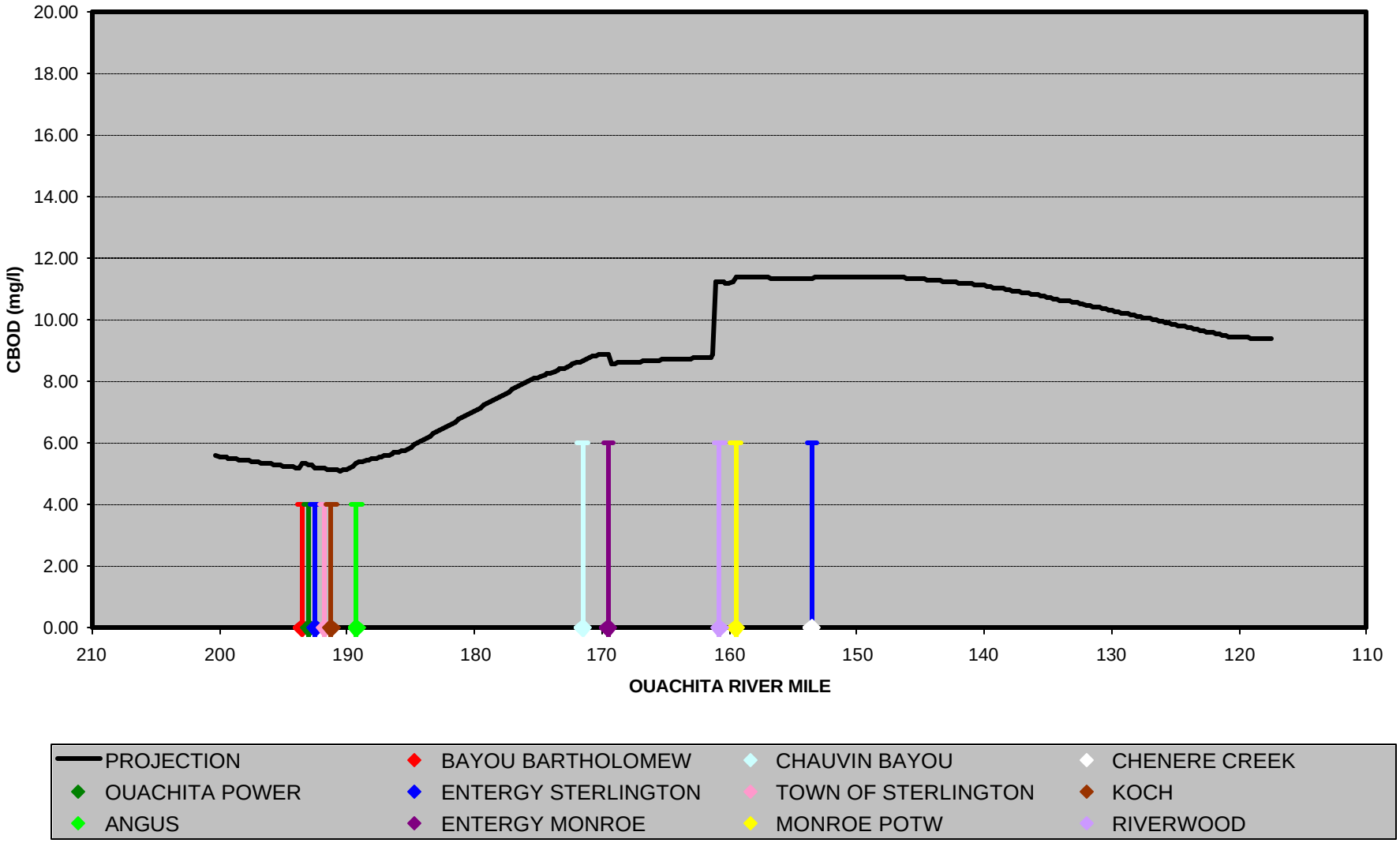
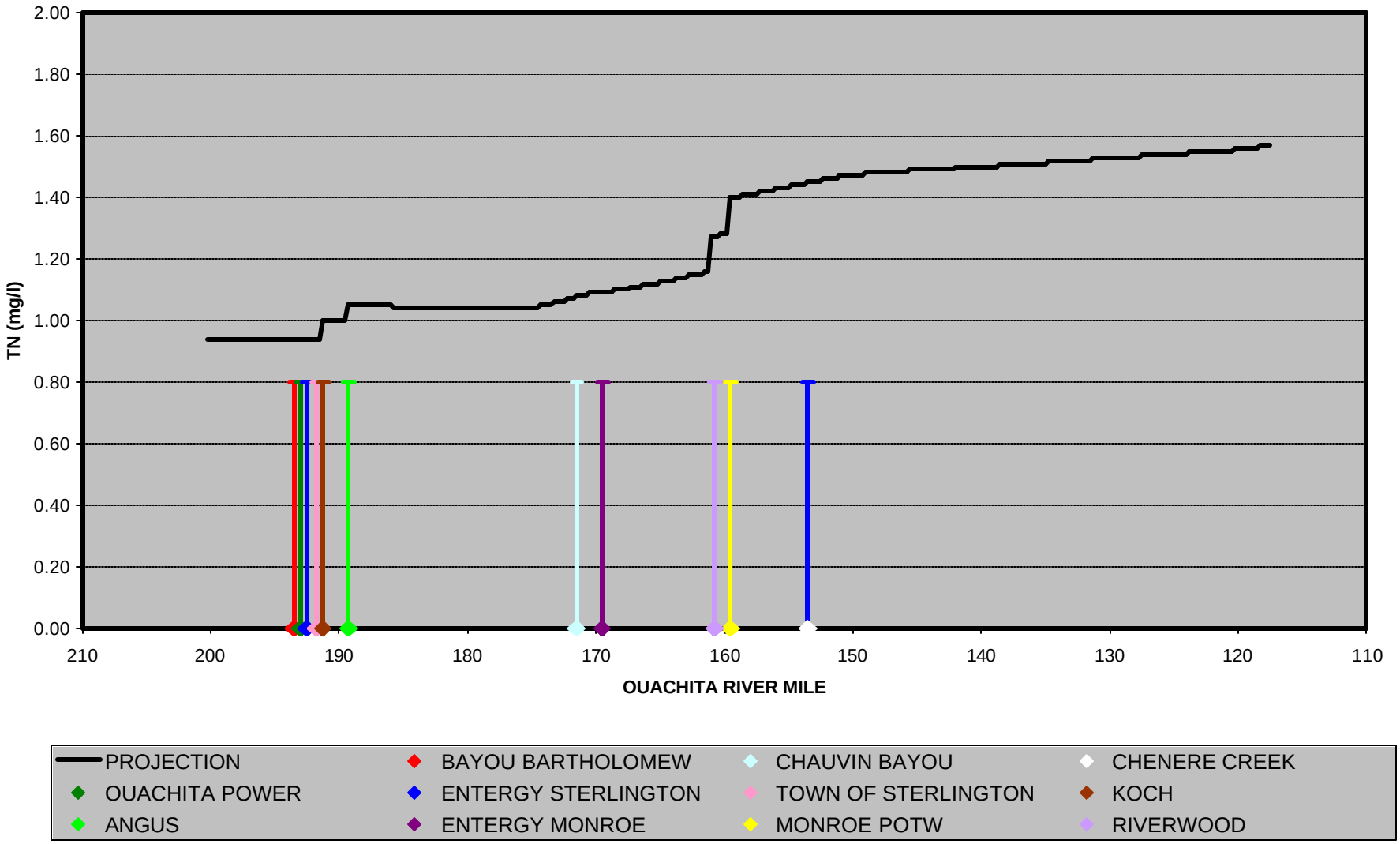
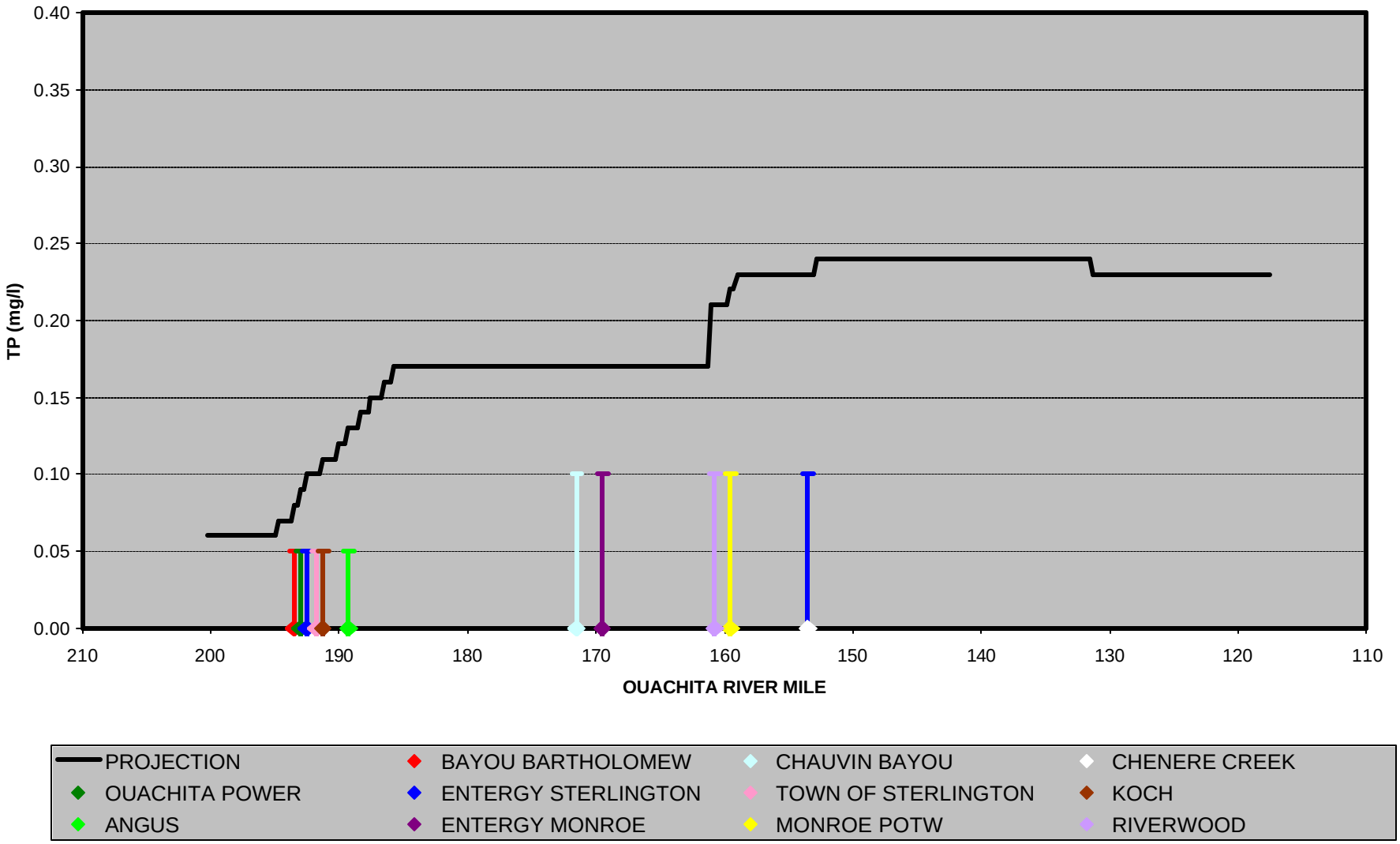


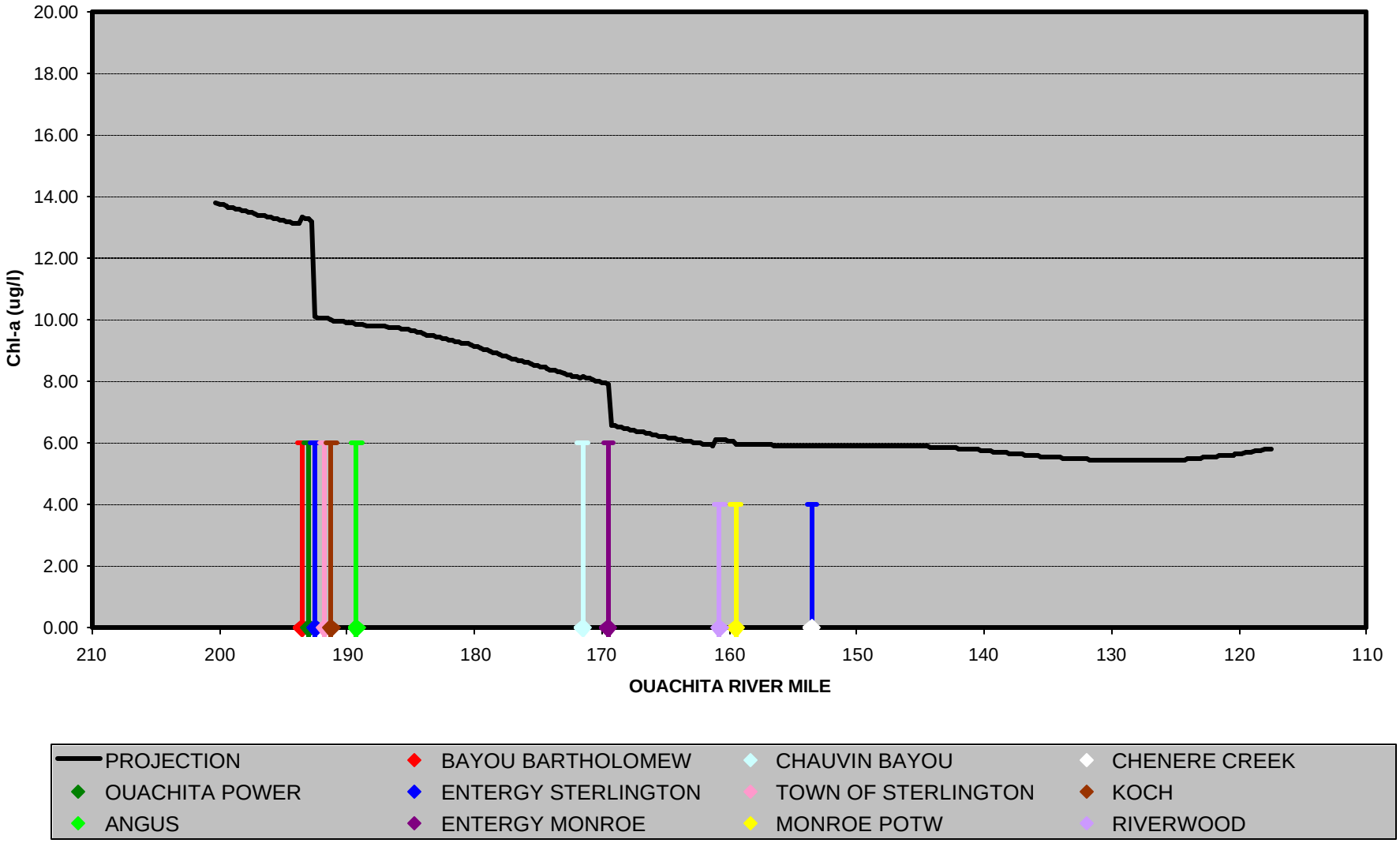
LOWER OUACHITA RIVER NOVEMBER TN PROJECTION W/O LOAD REDUCTION



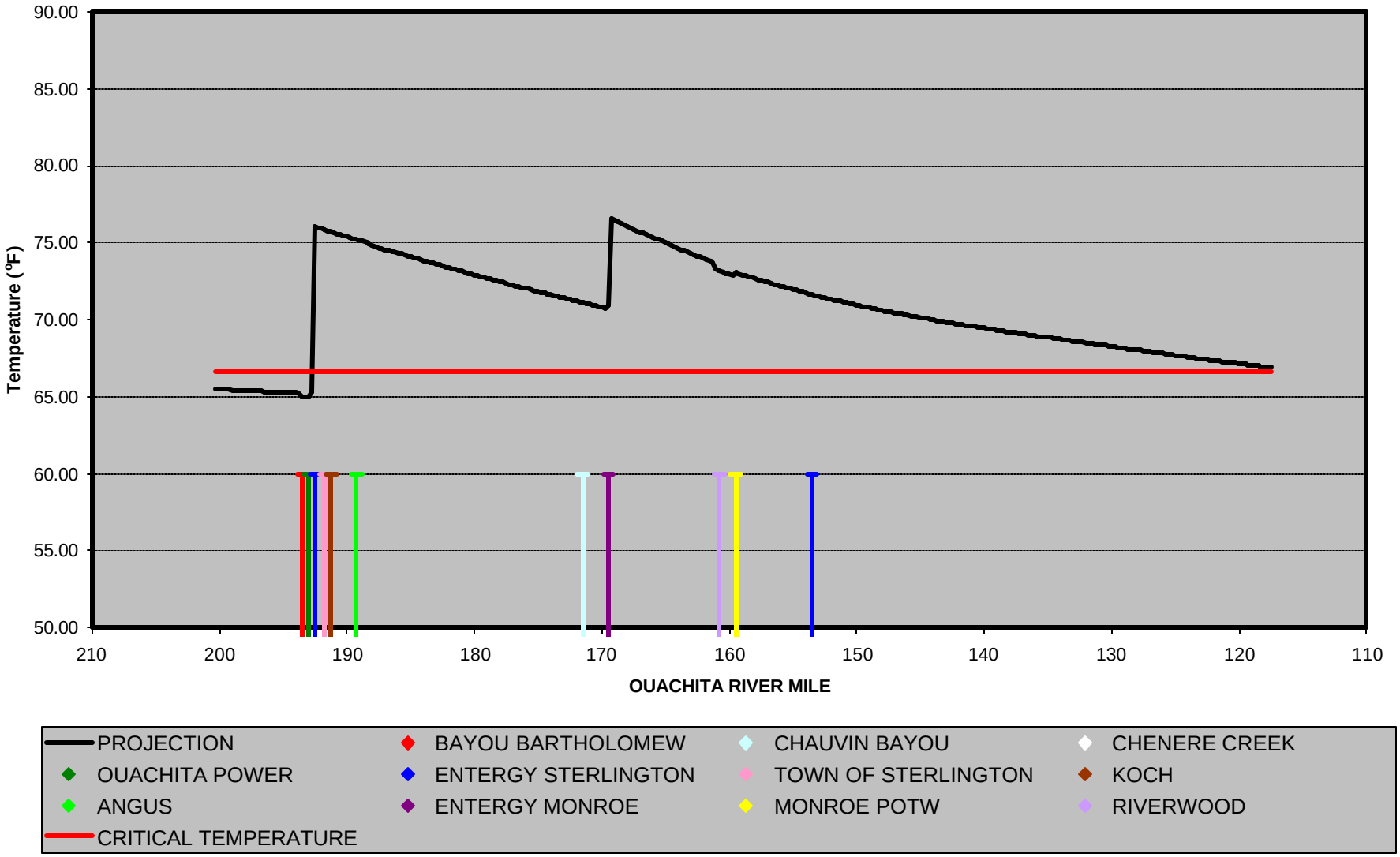
LOWER OUACHITA RIVER NOVEMBER TP PROJECTION W/O LOAD REDUCTION



LOWER OUACHITA RIVER NOVEMBER CHL-A PROJECTION W/O LOAD REDUCTION



LOWER OUACHITA RIVER NOVEMBER TEMPERATURE PROJECTION W/O LOAD REDUCTION



APPENDIX I - PROJECTION INPUT AND TMDL WORKSHEETS

LOWER OUACHITA RIVER MODEL PROJECTION INPUT

Headwater and Point Sources								
Name	Represen-tative Site No.	ORM	Reach No.	Flow (cfs)	MOS (%)		Temp (oF)	DO (mg/l)
Headwater	OR1	200.15	1	(1)	10		(2)	(3)
Bayou Bartholomew	OR11	193.49	2	(1)	10		(2)	(3)
Ouachita Power intake	OR1	192.98	2	(12)	20		(8)	
Ouachita Power Outfall 001 & 002	OR1	192.90	2	(12)	20		(12)	(15)
Entergy Sterlington intake	OR1	192.58	2	(12)	20		(8)	
Entergy Sterlington Outfalls 001 & 002	OR1	192.46	2	(12)	20		(12)	(9)
Town of Sterlington	OR20	191.81	2	(12)	20		(14)	(16)
Koch Nitrogen Outfall 001	OR19	191.36	2	(12)	20		(14)	(16)
Angus Chemical Outfall 002	OR18	189.24	3	(12)	20		(14)	(16)
Bayou deLoutre	OR12	187.90	3	(1)	10		(2)	(3)
Bayou d'Arbonne	OR13	172.87	6	(1)	10		(2)	(3)
Bayou Chauvin	OR14	171.62	6	(13)	10		(5)	(5)
Entergy Monroe intake	OR4	169.41	7	(12)	20		(8)	
Entergy Monroe Outfall 001 & 002	OR4	169.29	7	(12)	20		(12)	(9)
Judy Slough	OR21	160.91	8	(7)	20		(4)	(16)
City of Monroe POTW	OR17	159.56	9	(12)	20		(14)	(16)
Cheniere Creek	OR15	153.63	10	(1)	10		(2)	(3)
Cypress Creek	OR16	133.32	14	(1)	--		(8)	--

Name	UCBOD (mg/l)	Chl-a (ug/l)	NH3-N (mg/l)	Org-N (mg/l)	NO2- (mg/l)	NO3- (mg/l)	OP (mg/l)	Org-P (mg/l)
Headwater	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)
Bayou Bartholomew	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)
Ouachita Power intake								
Ouachita Power Outfall 001 & 002	(6)	(21)	(6)	(6)	(6)	(6)	(6)	(6)
Entergy Sterlington intake								
Entergy Sterlington Outfalls 001 & 002	(6)	(21)	(6)	(6)	(6)	(6)	(6)	(6)
Town of Sterlington	(12)	(18)	(17)	(17)	(18)	(18)	(18)	(18)
Koch Nitrogen Outfall 001	(19)	(21)	(12)	(19)	(19)	(19)	(19)	(19)
Angus Chemical Outfall 002	(12)	(21)	(19)	(19)	(19)	(19)	(19)	(19)
Bayou deLoutre	(20)	(4)	(11)	(11)	(11)	(11)	(11)	(11)
Bayou d'Arbonne	(20)	(4)	(11)	(11)	(11)	(11)	(11)	(11)
Bayou Chauvin	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)
Entergy Monroe intake								
Entergy Monroe Outfall 001 & 002	(6)	(21)	(6)	(6)	(6)	(6)	(6)	(6)
Judy Slough	(19)	(19)	(19)	(19)	(19)	(19)	(19)	(19)
City of Monroe POTW	(12)	(21)	(12)	(12)	(19)	(19)	(19)	(19)
Cheniere Creek	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)
Cypress Creek	--	--	--	--	--	--	--	--

(1) Monthly 7Q10 flow
(2) Monthly 90 percentile temperature
(3) At 80% of saturation
(4) Equal to the Cheniere Creek water quality
(5) Equal to the Bayou Bartholomew temperature and DO
(6) Approximately equal to concentration in intake from Ouachita river
(7) The Judy Slough flow is calculated from the Riverwood Industries Outfall 001 hydrograph controlled release permit limitation, incorporating the necessary MOS and load reduction.
(8) A temperature is needed for QUAL2E to run but is not actually used
(9) Entergy power plant discharge temperature is set by permit, and the DO is approximately .2 mg/l less than the intake based on survey data.
(10) Survey concentrations adjusted for MOS and required load reduction.
(11) Average long term annual ambient data were used to estimate inputs which were then adjusted for MOS and % reduction.
(12) Permit and permit application information; flows adjusted for MOS and % reduction.
(13) From Chauvin Bayou TMDL
(14) Outfall temperatures of 30 ˚C = 86 ˚F are assumed.
(15) Cooling loop blow-down, assume a DO of 6.
(16) For these treated wastewater discharges a DO of 2 was assumed.
(17) Based on the Louisiana Technical Procedures.
(18) Based on data from other oxidation ponds.
(19) From survey data.
(20) In the absence of data, set UCBOD to 5.
(21) Chl-a assumed to be zero for this type of discharge.

LOWER OUACHITA RIVER MODEL PROJECTION POINT SOURCE INPUT FOR MAY WITHOUT LOAD REDUCTION

Headwater and Point Sources									
Name	Representative Site No.	ORM	Reach No.	Flow (cfs)	MOS (%)	Flow reduction (%)	Adj flow (cfs)	Temp (^{o}F)	DO (mg/l)
Headwater	OR1	200.15	1	1591		0	1591.00	74.1	6.80
Bayou Bartholomew	OR11	193.49	2	339		0	339.00	71.2	7.00
Ouachita Power intake	OR1	192.98	2	8.5	20	0	10.62	74.1	--
Ouachita Power Outfall 001 & 002	OR1	192.90	2	1.9	20	0	2.40	99.0	6.00
Entergy Sterlington intake	OR1	192.58	2	246	20	0	307.54	74.1	--
Entergy Sterlington Outfalls 001 & 002	OR1	192.46	2	246	20	0	307.54	112.0	6.60
Town of Sterlington	OR20	191.81	2	0.23	20	0	0.29	86.0	2.00
Koch Nitrogen Outfall 001	OR19	191.36	2	3.85	20	0	4.82	86.0	2.00
Angus Chemical Outfall 002	OR18	189.24	3	1.16	20	0	1.45	86.0	2.00
Bayou deLoutre	OR12	187.90	3	10.6		0	10.60	76.3	6.70
Bayou d'Arbonne	OR13	172.87	6	14.5		0	14.50	74.3	6.80
Bayou Chauvin	OR14	171.62	6	2.4		0	2.40	71.2	7.00
Entergy Monroe intake	OR4	169.41	7	179	20	0	224.30	75.1	--
Entergy Monroe Outfall 001 & 002	OR4	169.29	7	179	20	0	224.30	106.0	6.16
Judy Slough	OR21	160.91	8		20	0	45.54	75.9	2.00
City of Monroe POTW	OR17	159.56	9	18.6	20	0	23.21	86.0	2.00
Cheniere Creek	OR15	153.63	10	0.50		0	0.50	75.9	6.70
Cypress Creek	OR16	133.32	14	0.00		0	0.00	86.0	--

Name	Load reduction (%)	UCBOD (mg/l)	Chl-a (ug/l)	Org-N (mg/l)	NH3-N (mg/l)	NO2- (mg/l)	NO_3^- (mg/l)	Org-P (mg/l)	Ortho-P (mg/l)
Headwater	0	5.6	13.80	0.72	0.03	0.02	0.17	0.04	0.02
Bayou Bartholomew	0	8.1	17.40	0.70	0.02	0.02	0.22	0.21	0.03
Ouachita Power intake	0								
Ouachita Power Outfall 001 & 002	0	5.0	0.00	0.70	0.03	0.02	0.16	0.08	0.02
Entergy Sterlington intake	0								
Entergy Sterlington Outfalls 001 & 002	0	5.0	0.00	0.70	0.03	0.02	0.20	0.10	0.02
Town of Sterlington	0	69.0	100.00	10.00	5.00	0.00	0.70	2.50	1.00
Koch Nitrogen Outfall 001	0	10.7	0.00	0.76	16.50	0.00	0.58	0.24	0.15
Angus Chemical Outfall 002	0	106.0	0.00	8.32	0.31	0.00	34.33	0.33	0.01
Bayou deLoutre	0	5.6	13.30	0.81	0.02	0.02	0.08	0.08	0.01
Bayou d'Arbonne	0	5.6	13.30	0.71	0.02	0.02	0.07	0.06	0.01
Bayou Chauvin	0	23.0	29.30	1.88	1.24	0.02	0.22	0.41	0.63
Entergy Monroe intake	0								
Entergy Monroe Outfall 001 & 002	0	7.0	0.00	0.67	0.04	0.04	0.30	0.15	0.03
Judy Slough	0	86.4	12.20	2.98	1.50	0.00	0.12	0.69	0.70
City of Monroe POTW	0	23.0	0.00	0.67	1.33	0.00	6.36	0.95	0.29
Cheniere Creek	0	12.1	13.30	0.81	0.02	0.00	0.03	0.06	0.01
Cypress Creek	0								

LOWER OUACHITA RIVER MODEL PROJECTION POINT SOURCE INPUT FOR JUNE WITHOUT LOAD REDUCTION

Headwater and Point Sources									
Name	Representative Site No.	ORM	Reach No.	Flow (cfs)	MOS (%)	Flow reduction (%)	Adj flow (cfs)	Temp (^{o}F)	DO (mg/l)
Headwater	OR1	200.15	1	1049		0	1049.00	82.8	6.20
Bayou Bartholomew	OR11	193.49	2	148		0	148.00	81.5	6.30
Ouachita Power intake	OR1	192.98	2	8.5	20	0	10.62	--	--
Ouachita Power Outfall 001 & 002	OR1	192.90	2	1.9	20	0	2.40	99.0	6.00
Entergy Sterlington intake	OR1	192.58	2	246	20	0	307.54	--	--
Entergy Sterlington Outfalls 001 & 002	OR1	192.46	2	246	20	0	307.54	112.0	6.00
Town of Sterlington	OR20	191.81	2	0.23	20	0	0.29	86.0	2.00
Koch Nitrogen Outfall 001	OR19	191.36	2	3.85	20	0	4.82	86.0	2.00
Angus Chemical Outfall 002	OR18	189.24	3	1.16	20	0	1.45	86.0	2.00
Bayou deLoutre	OR12	187.90	3	6.0		0	6.00	82.8	6.20
Bayou d'Arbonne	OR13	172.87	6	1.8		0	1.80	81.9	6.30
Bayou Chauvin	OR14	171.62	6	2.4		0	2.40	81.5	6.30
Entergy Monroe intake	OR4	169.41	7	179	20	0	224.30	--	--
Entergy Monroe Outfall 001 & 002	OR4	169.29	7	179	20	0	224.30	106.0	5.30
Judy Slough	OR21	160.91	8		20	0	37.03	81.0	2.00
City of Monroe POTW	OR17	159.56	9	18.6	20	0	23.21	86.0	2.00
Cheniere Creek	OR15	153.63	10	0.50		0	0.50	81.0	6.40
Cypress Creek	OR16	133.32	14	0.00		0	0.00	86.0	--

Name	Load reduction (%)	UCBOD (mg/l)	Chl-a (ug/l)	Org-N (mg/l)	NH3-N (mg/l)	NO2- (mg/l)	NO_3^- (mg/l)	Org-P (mg/l)	Ortho-P (mg/l)
Headwater	0	5.6	13.80	0.72	0.03	0.02	0.17	0.04	0.02
Bayou Bartholomew	0	8.1	17.40	0.70	0.02	0.02	0.22	0.21	0.03
Ouachita Power intake	0								
Ouachita Power Outfall 001 & 002	0	5.0	0.00	0.70	0.03	0.02	0.16	0.08	0.02
Entergy Sterlington intake	0								
Entergy Sterlington Outfalls 001 & 002	0	5.0	0.00	0.70	0.03	0.02	0.20	0.10	0.02
Town of Sterlington	0	69.0	100.00	10.00	5.00	0.00	0.70	2.50	1.00
Koch Nitrogen Outfall 001	0	10.7	0.00	0.76	16.50	0.00	0.58	0.24	0.15
Angus Chemical Outfall 002	0	106.0	0.00	8.32	0.31	0.00	34.33	0.33	0.01
Bayou deLoutre	0	5.6	13.30	0.81	0.02	0.02	0.08	0.08	0.01
Bayou d'Arbonne	0	5.6	13.30	0.71	0.02	0.02	0.07	0.06	0.01
Bayou Chauvin	0	23.0	29.30	1.88	1.24	0.02	0.22	0.41	0.63
Entergy Monroe intake	0								
Entergy Monroe Outfall 001 & 002	0	7.0	0.00	0.67	0.04	0.04	0.30	0.15	0.03
Judy Slough	0	86.4	12.20	2.98	1.50	0.00	0.12	0.69	0.70
City of Monroe POTW	0	23.0	0.00	0.67	1.33	0.00	6.36	0.95	0.29
Cheniere Creek	0	12.1	13.30	0.81	0.02	0.00	0.03	0.06	0.01
Cypress Creek	0								

LOWER OUACHITA RIVER MODEL PROJECTION POINT SOURCE INPUT FOR JULY WITHOUT LOAD REDUCTION

Headwater and Point Sources									
Name	Representative Site No.	ORM	Reach No.	Flow (cfs)	MOS (%)	Flow reduction (%)	Adj flow (cfs)	Temp (^{o}F)	DO (mg/l)
Headwater	OR1	200.15	1	894		0	894.00	89.1	5.90
Bayou Bartholomew	OR11	193.49	2	74		0	74.00	83.7	6.20
Ouachita Power intake	OR1	192.98	2	8.5	20	0	10.62	--	--
Ouachita Power Outfall 001 & 002	OR1	192.90	2	1.9	20	0	2.40	99.0	6.00
Entergy Sterlington intake	OR1	192.58	2	246	20	0	307.54	--	--
Entergy Sterlington Outfalls 001 & 002	OR1	192.46	2	246	20	0	307.54	112.0	5.70
Town of Sterlington	OR20	191.81	2	0.23	20	0	0.29	86.0	2.00
Koch Nitrogen Outfall 001	OR19	191.36	2	3.85	20	0	4.82	86.0	2.00
Angus Chemical Outfall 002	OR18	189.24	3	1.16	20	0	1.45	86.0	2.00
Bayou deLoutre	OR12	187.90	3	3.9		0	3.90	86.9	6.00
Bayou d'Arbonne	OR13	172.87	6	0.1		0	0.10	84.4	6.10
Bayou Chauvin	OR14	171.62	6	2.4		0	2.40	83.7	6.20
Entergy Monroe intake	OR4	169.41	7	179	20	0	224.30	--	--
Entergy Monroe Outfall 001 & 002	OR4	169.29	7	179	20	0	224.30	106.0	4.63
Judy Slough	OR21	160.91	8		20	0	31.34	84.7	2.00
City of Monroe POTW	OR17	159.56	9	18.6	20	0	23.21	86.0	2.00
Cheniere Creek	OR15	153.63	10	0.50		0	0.50	84.7	6.10
Cypress Creek	OR16	133.32	14	0.00		0	0.00	86.0	--

Name	Load reduction (%)	UCBOD (mg/l)	Chl-a (ug/l)	Org-N (mg/l)	NH3-N (mg/l)	NO2- (mg/l)	NO_3^- (mg/l)	Org-P (mg/l)	Ortho-P (mg/l)
Headwater	0	5.6	13.80	0.72	0.03	0.02	0.17	0.04	0.02
Bayou Bartholomew	0	8.1	17.40	0.70	0.02	0.02	0.22	0.21	0.03
Ouachita Power intake	0								
Ouachita Power Outfall 001 & 002	0	5.0	0.00	0.70	0.03	0.02	0.16	0.08	0.02
Entergy Sterlington intake	0								
Entergy Sterlington Outfalls 001 & 002	0	5.0	0.00	0.70	0.03	0.02	0.20	0.10	0.02
Town of Sterlington	0	69.0	100.00	10.00	5.00	0.00	0.70	2.50	1.00
Koch Nitrogen Outfall 001	0	10.7	0.00	0.76	16.50	0.00	0.58	0.24	0.15
Angus Chemical Outfall 002	0	106.0	0.00	8.32	0.31	0.00	34.33	0.33	0.01
Bayou deLoutre	0	5.6	13.30	0.81	0.02	0.02	0.08	0.08	0.01
Bayou d'Arbonne	0	5.6	13.30	0.71	0.02	0.02	0.07	0.06	0.01
Bayou Chauvin	0	23.0	29.30	1.88	1.24	0.02	0.22	0.41	0.63
Entergy Monroe intake	0								
Entergy Monroe Outfall 001 & 002	0	7.0	0.00	0.67	0.04	0.04	0.30	0.15	0.03
Judy Slough	0	86.4	12.20	2.98	1.50	0.00	0.12	0.69	0.70
City of Monroe POTW	0	23.0	0.00	0.67	1.33	0.00	6.36	0.95	0.29
Cheniere Creek	0	12.1	13.30	0.81	0.02	0.00	0.03	0.06	0.01
Cypress Creek	0								

LOWER OUACHITA RIVER MODEL PROJECTION POINT SOURCE INPUT FOR AUGUST WITHOUT LOAD REDUCTION

Headwater and Point Sources									
Name	Representative Site No.	ORM	Reach No.	Flow (cfs)	MOS (%)	Flow reduction (%)	Adj flow (cfs)	Temp (^{o}F)	DO (mg/l)
Headwater	OR1	200.15	1	802		0	802.00	91.2	5.80
Bayou Bartholomew	OR11	193.49	2	60		0	60.00	84.4	6.10
Ouachita Power intake	OR1	192.98	2	8.5	20	0	10.62	--	--
Ouachita Power Outfall 001 & 002	OR1	192.90	2	1.9	20	0	2.40	99.0	6.00
Entergy Sterlington intake	OR1	192.58	2	246	20	0	307.54	--	--
Entergy Sterlington Outfalls 001 & 002	OR1	192.46	2	246	20	0	307.54	112.0	5.60
Town of Sterlington	OR20	191.81	2	0.23	20	0	0.29	86.0	2.00
Koch Nitrogen Outfall 001	OR19	191.36	2	3.85	20	0	4.82	86.0	2.00
Angus Chemical Outfall 002	OR18	189.24	3	1.16	20	0	1.45	86.0	2.00
Bayou deLoutre	OR12	187.90	3	4.8		0	4.80	86.9	6.00
Bayou d'Arbonne	OR13	172.87	6	0.0		0	0.00	87.1	6.00
Bayou Chauvin	OR14	171.62	6	2.4		0	2.40	84.4	6.10
Entergy Monroe intake	OR4	169.41	7	179	20	0	224.30	--	--
Entergy Monroe Outfall 001 & 002	OR4	169.29	7	179	20	0	224.30	106.0	4.43
Judy Slough	OR21	160.91	8		20	0	27.96	83.3	2.00
City of Monroe POTW	OR17	159.56	9	18.6	20	0	23.21	86.0	2.00
Cheniere Creek	OR15	153.63	10	0.50		0	0.50	83.3	6.20
Cypress Creek	OR16	133.32	14	0.00		0	0.00	86.0	--

Name	Load reduction (%)	UCBOD (mg/l)	Chl-a (ug/l)	Org-N (mg/l)	NH3-N (mg/l)	NO2- (mg/l)	NO_3^- (mg/l)	Org-P (mg/l)	Ortho-P (mg/l)
Headwater	0	5.6	13.80	0.72	0.03	0.02	0.17	0.04	0.02
Bayou Bartholomew	0	8.1	17.40	0.70	0.02	0.02	0.22	0.21	0.03
Ouachita Power intake	0								
Ouachita Power Outfall 001 & 002	0	5.0	0.00	0.70	0.03	0.02	0.16	0.08	0.02
Entergy Sterlington intake	0								
Entergy Sterlington Outfalls 001 & 002	0	5.0	0.00	0.70	0.03	0.02	0.20	0.10	0.02
Town of Sterlington	0	69.0	100.00	10.00	5.00	0.00	0.70	2.50	1.00
Koch Nitrogen Outfall 001	0	10.7	0.00	0.76	16.50	0.00	0.58	0.24	0.15
Angus Chemical Outfall 002	0	106.0	0.00	8.32	0.31	0.00	34.33	0.33	0.01
Bayou deLoutre	0	5.6	13.30	0.81	0.02	0.02	0.08	0.08	0.01
Bayou d'Arbonne	0	5.6	13.30	0.71	0.02	0.02	0.07	0.06	0.01
Bayou Chauvin	0	23.0	29.30	1.88	1.24	0.02	0.22	0.41	0.63
Entergy Monroe intake	0								
Entergy Monroe Outfall 001 & 002	0	7.0	0.00	0.67	0.04	0.04	0.30	0.15	0.03
Judy Slough	0	86.4	12.20	2.98	1.50	0.00	0.12	0.69	0.70
City of Monroe POTW	0	23.0	0.00	0.67	1.33	0.00	6.36	0.95	0.29
Cheniere Creek	0	12.1	13.30	0.81	0.02	0.00	0.03	0.06	0.01
Cypress Creek	0								

LOWER OUACHITA RIVER MODEL PROJECTION POINT SOURCE INPUT FOR AUGUST TO MEET CRITERIA

Headwater and Point Sources									
Name	Representative Site No.	ORM	Reach No.	Flow (cfs)	MOS (%)	Flow reduction (%)	Adj flow (cfs)	Temp (^{o}F)	DO (mg/l)
Headwater	OR1	200.15	1	802		0	802.00	91.2	5.80
Bayou Bartholomew	OR11	193.49	2	60		0	60.00	84.4	6.10
Ouachita Power intake	OR1	192.98	2	8.5	20	0	10.62	--	--
Ouachita Power Outfall 001 & 002	OR1	192.90	2	1.9	20	0	2.40	99.0	6.00
Entergy Sterlington intake	OR1	192.58	2	246	20	0	307.54	--	--
Entergy Sterlington Outfalls 001 & 002	OR1	192.46	2	246	20	0	307.54	112.0	5.60
Town of Sterlington	OR20	191.81	2	0.23	20	0	0.29	86.0	2.00
Koch Nitrogen Outfall 001	OR19	191.36	2	3.85	20	0	4.82	86.0	2.00
Angus Chemical Outfall 002	OR18	189.24	3	1.16	20	0	1.45	86.0	2.00
Bayou deLoutre	OR12	187.90	3	4.8		0	4.80	86.9	6.00
Bayou d'Arbonne	OR13	172.87	6	0.0		0	0.00	87.1	6.00
Bayou Chauvin	OR14	171.62	6	2.4		0	2.40	84.4	6.10
Entergy Monroe intake	OR4	169.41	7	179	20	0	224.30	--	--
Entergy Monroe Outfall 001 & 002	OR4	169.29	7	179	20	0	224.30	106.0	4.91
Judy Slough	OR21	160.91	8		20	0	27.96	83.3	2.00
City of Monroe POTW	OR17	159.56	9	18.6	20	0	23.21	86.0	2.00
Cheniere Creek	OR15	153.63	10	0.50		0	0.50	83.3	6.20
Cypress Creek	OR16	133.32	14	0.00		0	0.00	86.0	--

Name	Load reduction (%)	UCBOD (mg/l)	Chl-a (ug/l)	Org-N (mg/l)	NH3-N (mg/l)	NO2- (mg/l)	NO_3^- (mg/l)	Org-P (mg/l)	Ortho-P (mg/l)
Headwater	0	4.7	11.70	0.61	0.03	0.02	0.14	0.04	0.02
Bayou Bartholomew	0	8.1	17.40	0.70	0.02	0.02	0.22	0.21	0.03
Ouachita Power intake	0								
Ouachita Power Outfall 001 & 002	0	5.0	0.00	0.70	0.03	0.02	0.16	0.08	0.02
Entergy Sterlington intake	0								
Entergy Sterlington Outfalls 001 & 002	0	5.0	0.00	0.70	0.03	0.02	0.20	0.10	0.02
Town of Sterlington	0	69.0	100.00	10.00	5.00	0.00	0.70	2.50	1.00
Koch Nitrogen Outfall 001	0	10.7	0.00	0.76	16.50	0.00	0.58	0.24	0.15
Angus Chemical Outfall 002	0	106.0	0.00	8.32	0.31	0.00	34.33	0.33	0.01
Bayou deLoutre	0	5.6	13.30	0.81	0.02	0.02	0.08	0.08	0.01
Bayou d'Arbonne	0	5.6	13.30	0.71	0.02	0.02	0.07	0.06	0.01
Bayou Chauvin	0	23.0	29.30	1.88	1.24	0.02	0.22	0.41	0.63
Entergy Monroe intake	0								
Entergy Monroe Outfall 001 & 002	0	7.0	0.00	0.67	0.04	0.04	0.30	0.15	0.03
Judy Slough	0	86.4	12.20	2.98	1.50	0.00	0.12	0.69	0.70
City of Monroe POTW	0	23.0	0.00	0.67	1.33	0.00	6.36	0.95	0.29
Cheniere Creek	0	12.1	13.30	0.81	0.02	0.00	0.03	0.06	0.01
Cypress Creek	0								

LOWER OUACHITA RIVER MODEL PROJECTION POINT SOURCE INPUT FOR SEPTEMBER WITHOUT LOAD REDUCTION

Headwater and Point Sources									
Name	Representative Site No.	ORM	Reach No.	Flow (cfs)	MOS (%)	Flow reduction (%)	Adj flow (cfs)	Temp (^{o}F)	DO (mg/l)
Headwater	OR1	200.15	1	829		0	829.00	85.1	6.10
Bayou Bartholomew	OR11	193.49	2	53		0	53.00	78.3	6.50
Ouachita Power intake	OR1	192.98	2	8.5	20	0	10.62	--	--
Ouachita Power Outfall 001 & 002	OR1	192.90	2	1.9	20	0	2.40	99.0	6.00
Entergy Sterlington intake	OR1	192.58	2	246	20	0	307.54	--	--
Entergy Sterlington Outfalls 001 & 002	OR1	192.46	2	246	20	0	307.54	112.0	5.90
Town of Sterlington	OR20	191.81	2	0.23	20	0	0.29	86.0	2.00
Koch Nitrogen Outfall 001	OR19	191.36	2	3.85	20	0	4.82	86.0	2.00
Angus Chemical Outfall 002	OR18	189.24	3	1.16	20	0	1.45	86.0	2.00
Bayou deLoutre	OR12	187.90	3	7.3		0	7.30	80.2	6.40
Bayou d'Arbonne	OR13	172.87	6	0.0		0	0.00	82.9	6.20
Bayou Chauvin	OR14	171.62	6	2.4		0	2.40	78.3	6.50
Entergy Monroe intake	OR4	169.41	7	179	20	0	224.30	--	--
Entergy Monroe Outfall 001 & 002	OR4	169.29	7	179	20	0	224.30	106.0	4.82
Judy Slough	OR21	160.91	8		20	0	28.95	76.6	2.00
City of Monroe POTW	OR17	159.56	9	18.6	20	0	23.21	86.0	2.00
Cheniere Creek	OR15	153.63	10	0.50		0	0.50	76.6	6.60
Cypress Creek	OR16	133.32	14	0.00		0	0.00	86.0	--

Name	Load reduction (%)	UCBOD (mg/l)	Chl-a (ug/l)	Org-N (mg/l)	NH3-N (mg/l)	NO2- (mg/l)	NO_3^- (mg/l)	Org-P (mg/l)	Ortho-P (mg/l)
Headwater	0	5.6	13.80	0.72	0.03	0.02	0.17	0.04	0.02
Bayou Bartholomew	0	8.1	17.40	0.70	0.02	0.02	0.22	0.21	0.03
Ouachita Power intake	0								
Ouachita Power Outfall 001 & 002	0	5.0	0.00	0.70	0.03	0.02	0.16	0.08	0.02
Entergy Sterlington intake	0								
Entergy Sterlington Outfalls 001 & 002	0	5.0	0.00	0.70	0.03	0.02	0.20	0.10	0.02
Town of Sterlington	0	69.0	100.00	10.00	5.00	0.00	0.70	2.50	1.00
Koch Nitrogen Outfall 001	0	10.7	0.00	0.76	16.50	0.00	0.58	0.24	0.15
Angus Chemical Outfall 002	0	106.0	0.00	8.32	0.31	0.00	34.33	0.33	0.01
Bayou deLoutre	0	5.6	13.30	0.81	0.02	0.02	0.08	0.08	0.01
Bayou d'Arbonne	0	5.6	13.30	0.71	0.02	0.02	0.07	0.06	0.01
Bayou Chauvin	0	23.0	29.30	1.88	1.24	0.02	0.22	0.41	0.63
Entergy Monroe intake	0								
Entergy Monroe Outfall 001 & 002	0	7.0	0.00	0.67	0.04	0.04	0.30	0.15	0.03
Judy Slough	0	86.4	12.20	2.98	1.50	0.00	0.12	0.69	0.70
City of Monroe POTW	0	23.0	0.00	0.67	1.33	0.00	6.36	0.95	0.29
Cheniere Creek	0	12.1	13.30	0.81	0.02	0.00	0.03	0.06	0.01
Cypress Creek	0								

LOWER OUACHITA RIVER MODEL PROJECTION POINT SOURCE INPUT FOR SEPTEMBER TO MEET CRITERIA

Headwater and Point Sources									
Name	Representative Site No.	ORM	Reach No.	Flow (cfs)	MOS (%)	Flow reduction (%)	Adj flow (cfs)	Temp (^{o}F)	DO (mg/l)
Headwater	OR1	200.15	1	829		0	829.00	85.1	6.10
Bayou Bartholomew	OR11	193.49	2	53		0	53.00	78.3	6.50
Ouachita Power intake	OR1	192.98	2	8.5	20	0	10.62	--	--
Ouachita Power Outfall 001 & 002	OR1	192.90	2	1.9	20	0	2.40	99.0	6.00
Entergy Sterlington intake	OR1	192.58	2	246	20	0	307.54	--	--
Entergy Sterlington Outfalls 001 & 002	OR1	192.46	2	246	20	0	307.54	112.0	5.90
Town of Sterlington	OR20	191.81	2	0.23	20	0	0.29	86.0	2.00
Koch Nitrogen Outfall 001	OR19	191.36	2	3.85	20	0	4.82	86.0	2.00
Angus Chemical Outfall 002	OR18	189.24	3	1.16	20	0	1.45	86.0	2.00
Bayou deLoutre	OR12	187.90	3	7.3		0	7.30	80.2	6.40
Bayou d'Arbonne	OR13	172.87	6	0.0		0	0.00	82.9	6.20
Bayou Chauvin	OR14	171.62	6	2.4		0	2.40	78.3	6.50
Entergy Monroe intake	OR4	169.41	7	179	20	0	224.30	--	--
Entergy Monroe Outfall 001 & 002	OR4	169.29	7	179	20	0	224.30	106.0	4.82
Judy Slough	OR21	160.91	8		20	0	24.61	76.6	2.00
City of Monroe POTW	OR17	159.56	9	18.6	20	0	23.21	86.0	2.00
Cheniere Creek	OR15	153.63	10	0.50		0	0.50	76.6	6.60
Cypress Creek	OR16	133.32	14	0.00		0	0.00	86.0	--

Name	Load reduction (%)	UCBOD (mg/l)	Chl-a (ug/l)	Org-N (mg/l)	NH3-N (mg/l)	NO2- (mg/l)	NO_3^- (mg/l)	Org-P (mg/l)	Ortho-P (mg/l)
Headwater	0	4.7	11.70	0.61	0.03	0.02	0.14	0.04	0.02
Bayou Bartholomew	0	8.1	17.40	0.70	0.02	0.02	0.22	0.21	0.03
Ouachita Power intake	0								
Ouachita Power Outfall 001 & 002	0	5.0	0.00	0.70	0.03	0.02	0.16	0.08	0.02
Entergy Sterlington intake	0								
Entergy Sterlington Outfalls 001 & 002	0	5.0	0.00	0.70	0.03	0.02	0.20	0.10	0.02
Town of Sterlington	0	69.0	100.00	10.00	5.00	0.00	0.70	2.50	1.00
Koch Nitrogen Outfall 001	0	10.7	0.00	0.76	16.50	0.00	0.58	0.24	0.15
Angus Chemical Outfall 002	0	106.0	0.00	8.32	0.31	0.00	34.33	0.33	0.01
Bayou deLoutre	0	5.6	13.30	0.81	0.02	0.02	0.08	0.08	0.01
Bayou d'Arbonne	0	5.6	13.30	0.71	0.02	0.02	0.07	0.06	0.01
Bayou Chauvin	0	23.0	29.30	1.88	1.24	0.02	0.22	0.41	0.63
Entergy Monroe intake	0								
Entergy Monroe Outfall 001 & 002	0	7.0	0.00	0.67	0.04	0.04	0.30	0.15	0.03
Judy Slough	0	86.4	12.20	2.98	1.50	0.00	0.12	0.69	0.70
City of Monroe POTW	0	23.0	0.00	0.67	1.33	0.00	6.36	0.95	0.29
Cheniere Creek	0	12.1	13.30	0.81	0.02	0.00	0.03	0.06	0.01
Cypress Creek	0								

LOWER OUACHITA RIVER MODEL PROJECTION POINT SOURCE INPUT FOR NOVEMBER WITHOUT LOAD REDUCTION

Headwater and Point Sources									
Name	Representative Site No.	ORM	Reach No.	Flow (cfs)	MOS (%)	Flow reduction (%)	Adj flow (cfs)	Temp (^{o}F)	DO (mg/l)
Headwater	OR1	200.15	1	1231		0	1231.00	65.5	7.50
Bayou Bartholomew	OR11	193.49	2	69		0	69.00	60.3	7.90
Ouachita Power intake	OR1	192.98	2	8.5	20	0	10.62	--	--
Ouachita Power Outfall 001 & 002	OR1	192.90	2	1.9	20	0	2.40	99.0	6.00
Entergy Sterlington intake	OR1	192.58	2	246	20	0	307.54	--	--
Entergy Sterlington Outfalls 001 & 002	OR1	192.46	2	246	20	0	307.54	112.0	7.70
Town of Sterlington	OR20	191.81	2	0.23	20	0	0.29	86.0	2.00
Koch Nitrogen Outfall 001	OR19	191.36	2	3.85	20	0	4.82	86.0	2.00
Angus Chemical Outfall 002	OR18	189.24	3	1.16	20	0	1.45	86.0	2.00
Bayou deLoutre	OR12	187.90	3	13.1		0	13.10	62.8	7.70
Bayou d'Arbonne	OR13	172.87	6	0.0		0	0.00	65.8	7.50
Bayou Chauvin	OR14	171.62	6	2.4		0	2.40	60.3	7.90
Entergy Monroe intake	OR4	169.41	7	179	20	0	224.30	--	--
Entergy Monroe Outfall 001 & 002	OR4	169.29	7	179	20	0	224.30	106.0	6.75
Judy Slough	OR21	160.91	8		20	0	43.71	59.9	2.00
City of Monroe POTW	OR17	159.56	9	18.6	20	0	23.21	86.0	2.00
Cheniere Creek	OR15	153.63	10	0.50		0	0.50	59.9	8.00
Cypress Creek	OR16	133.32	14	0.00		0	0.00	86.0	--

Name	Load reduction (%)	UCBOD (mg/l)	Chl-a (ug/l)	Org-N (mg/l)	NH3-N (mg/l)	NO2- (mg/l)	NO_3^- (mg/l)	Org-P (mg/l)	Ortho-P (mg/l)
Headwater	0	5.6	13.80	0.72	0.03	0.02	0.17	0.04	0.02
Bayou Bartholomew	0	8.1	17.40	0.70	0.02	0.02	0.22	0.21	0.03
Ouachita Power intake	0								
Ouachita Power Outfall 001 & 002	0	5.0	0.00	0.70	0.03	0.02	0.16	0.08	0.02
Entergy Sterlington intake	0								
Entergy Sterlington Outfalls 001 & 002	0	5.0	0.00	0.70	0.03	0.02	0.20	0.10	0.02
Town of Sterlington	0	69.0	100.00	10.00	5.00	0.00	0.70	2.50	1.00
Koch Nitrogen Outfall 001	0	10.7	0.00	0.76	16.50	0.00	0.58	0.24	0.15
Angus Chemical Outfall 002	0	106.0	0.00	8.32	0.31	0.00	34.33	0.33	0.01
Bayou deLoutre	0	5.6	13.30	0.81	0.02	0.02	0.08	0.08	0.01
Bayou d'Arbonne	0	5.6	13.30	0.71	0.02	0.02	0.07	0.06	0.01
Bayou Chauvin	0	23.0	29.30	1.88	1.24	0.02	0.22	0.41	0.63
Entergy Monroe intake	0								
Entergy Monroe Outfall 001 & 002	0	7.0	0.00	0.67	0.04	0.04	0.30	0.15	0.03
Judy Slough	0	86.4	12.20	2.98	1.50	0.00	0.12	0.69	0.70
City of Monroe POTW	0	23.0	0.00	0.67	1.33	0.00	6.36	0.95	0.29
Cheniere Creek	0	12.1	13.30	0.81	0.02	0.00	0.03	0.06	0.01
Cypress Creek	0								

LOWER OUACHITA RIVER MAY PROJECTION AND TMDL WORKSHEET:
BENTHIC SOURCES
Input to blue shaded areas

		Calibration Benthic Source Rates					MOS & Reduction		Projection Input Source Rates		
Reach No.	Reach Length (mi)	NH_3-N (mg/ft^2-d)	Theta for NH3 Decay	Dis P (mg/ft2-d)	SOD (gm/ft2-d)	Theta for SOD Decay	MOS (%)	Reduction (%)	NH_3-N (gm/ft^2-d)	Dis P (mg/ft2-d)	SOD (mg/ft2-d)
1	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
2	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
3	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
4	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
5	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
6	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
7	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
8	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
9	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
10	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
11	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
12	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
13	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
14	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
15	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
16	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
17	3.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111

LOWER OUACHITA RIVER MAY PROJECTION AND TMDL
WORKSHEET: BENTHIC SOURCES
Input to blue shaded areas

Reach No.	Projection Stream Temp (^{o}F)	Projection Stream Width (ft)	**Projection Oxygen Demanding Load Allocation**		**Projection MOS**	
			NH_3-N (lb O_2/d)	**SOD (lb O_2/d)**	**NH_3-N (lb O_2/d)**	**SOD (lb O_2/d)**
1	75.1	405	0.0	0.0	0.0	0.0
2	75.1	405	0.0	0.0	0.0	0.0
3	75.1	402	0.0	0.0	0.0	0.0
4	75.1	446	0.0	0.0	0.0	0.0
5	75.1	465	0.0	0.0	0.0	0.0
6	75.1	508	0.0	0.0	0.0	0.0
7	75.1	550	0.0	0.4	0.0	0.0
8	75.1	591	0.0	0.4	0.0	0.0
9	75.1	556	0.0	0.4	0.0	0.0
10	75.1	523	0.0	0.4	0.0	0.0
11	75.1	490	0.0	0.3	0.0	0.0
12	75.1	468	0.0	0.3	0.0	0.0
13	75.1	445	0.0	0.3	0.0	0.0
14	75.1	497	0.0	0.3	0.0	0.0
15	75.1	549	0.0	0.4	0.0	0.0
16	75.1	601	0.0	0.4	0.0	0.0
17	75.1	647	0.0	0.3	0.0	0.0
		Total	0.0	3.8	0.0	0.4

LOWER OUACHITA RIVER MAY PROJECTION AND TMDL WORKSHEET: HEADWATER AND TRIBUTARIES

Input to blue shaded areas

	Calibration Concentrations							MOS & Reduction		Projection Input Concentrations			
Name	Chl-a (ug/l)	UCBOD (mg/l)	Org-N (mg/l)	NH_3-N (mg/l)	NOx-N (mg/l)	Org-P (mg/l)	Dis-P (mg/l)	MOS (%)	Reduction (%)	Chl-a (ug/l)	UCBOD (mg/l)	Org-N (mg/l)	NH_3-N (mg/l)
Ouachita headwater	12.4	5.0	0.66	0.02	0.17	0.04	0.02	0	0				
Bayou Bartholomew	15.7	7.3	0.63	0.02	0.09	0.19	0.03	0	0				
Bayou Chauvin	26.4	20.7	1.69	1.12	0.22	0.37	0.57	0	0				
Chenere Creek	12.0	10.9	0.73	0.02	0.03	0.05	0.01	0	0				
	Projection concentrations w/o MOS or Reduction												
Ouachita headwater	12.4	5.0	0.65	0.03	0.17	0.04	0.02	10	0	13.8	5.6	0.72	0.03
Bayou Bartholomew	15.7	7.3	0.63	0.02	0.22	0.19	0.03	10	0	17.4	8.1	0.70	0.02
Bayou de Loutre	12.0	5.0	0.73	0.02	0.09	0.07	0.01	10	0	13.3	5.6	0.81	0.02
Bayou d'Arbonne	12.0	5.0	0.64	0.02	0.08	0.05	0.01	10	0	13.3	5.6	0.71	0.02
Bayou Chauvin	26.4	20.7	1.69	1.12	0.22	0.37	0.57	10	0	29.3	23.0	1.88	1.24
Chenere Creek	12.0	10.9	0.73	0.02	0.03	0.05	0.01	10	0	13.3	12.1	0.81	0.02

LOWER OUACHITA RIVER MAY PROJECTION AND TMDL WORKSHEET: HEADWATER AND TRIBUTARIES

Input to blue shaded areas

Name	Projection Input Concentrations			Projection Critical Flow (cfs)	**Projection Oxygen Demanding Load Allocations**			**Projection MOS**		
	NOx-N (mg/l)	Org-P (mg/l)	Dis-P (mg/l)		**UCBOD (lb O_2/d)**	**Org-N (lb O_2/d)**	**NH_3-N (lb O_2/d)**	**UCBOD (lb O_2/d)**	**Org-N (lb O_2/d)**	**NH_3-N (lb O_2/d)**
Ouachita headwater										
Bayou Bartholomew										
Bayou Chauvin										
Chenere Creek										
Ouachita headwater	0.19	0.04	0.02	1591.0	42859	25462	1175	4762	2829	130.6
Bayou Bartholomew	0.24	0.21	0.03	339.0	13333	5258	167	1481	584	18.5
Bayou de Loutre	0.10	0.08	0.01	10.6	286	191	5	32	21	0.6
Bayou d'Arbonne	0.09	0.06	0.01	14.5	391	228	7	43	25	0.8
Bayou Chauvin	0.24	0.41	0.63	2.4	268	100	66	30	11	7.4
Chenere Creek	0.03	0.06	0.01	0.5	29	9	0	3	1	0.0
				Total	57164.64	31248.62	1420.908	6351.626	3472.069	157.8786

LOWER OUACHITA RIVER MAY PROJECTION AND TMDL WORKSHEET: INCREMENTAL FLOW

Input to blue shaded areas

	Calibration Flows and Concentrations				Calibration Loads			Projection Flows and Equivalent Concentrations Prior to MOS and Reduction			
REACH	FLOW (cfs/reach)	UCBOD (mg/l)	ORG-N (mg/l)	ORG-P (mg/l)	UCBOD (lb/day)	ORG-N (lb/day)	ORG-P (lb/day)	FLOW (cfs/reach)	UCBOD (mg/l)	ORG-N (mg/l)	ORG-P (mg/l)
1	50.0	0.0	0.00	0.04	0.0	0.0	10.8	3.0	0.0	0.0	0.7
2	50.0	0.0	0.00	0.70	0.0	0.0	188.6	3.0	0.0	0.0	11.7
3	50.0	20.0	0.00	1.40	5387.6	0.0	377.1	3.0	333.3	0.0	23.3
4	50.0	40.0	0.00	0.00	10775.3	0.0	0.0	3.0	666.7	0.0	0.0
5	50.0	45.0	0.00	0.00	12122.2	0.0	0.0	3.0	750.0	0.0	0.0
6	50.0	40.0	1.20	0.00	10775.3	323.3	0.0	3.0	666.7	20.0	0.0
7	50.0	30.0	1.20	0.00	8081.5	323.3	0.0	3.0	500.0	20.0	0.0
8	50.0	30.0	1.20	0.00	8081.5	323.3	0.0	3.0	500.0	20.0	0.0
9	50.0	30.0	1.20	0.20	8081.5	323.3	53.9	3.0	500.0	20.0	3.3
10	50.0	30.0	1.20	0.30	8081.5	323.3	80.8	3.0	500.0	20.0	5.0
11	23.0	55.0	1.20	0.00	6815.4	148.7	0.0	3.0	421.7	9.2	0.0
12	23.0	55.0	1.20	0.00	6815.4	148.7	0.0	3.0	421.7	9.2	0.0
13	23.0	53.0	1.20	0.00	6567.5	148.7	0.0	3.0	406.3	9.2	0.0
14	23.0	48.0	1.20	0.00	5948.0	148.7	0.0	3.0	368.0	9.2	0.0
15	23.0	43.0	1.20	0.00	5328.4	148.7	0.0	3.0	329.7	9.2	0.0
16	23.0	38.0	1.20	0.00	4708.8	148.7	0.0	3.0	291.3	9.2	0.0
17	23.0	33.0	1.20	0.00	4089.2	148.7	0.0	3.0	253.0	9.2	0.0

LOWER OUACHITA RIVER MAY PROJECTION AND TMDL WORKSHEET: INCREMENTAL FLOW

Input to blue shaded areas

	MOS & Reduction		Projection Input Concentrations			**Projection Oxygen Demanding Load Allocation**			**Projection MOS**		
REACH	MOS (%)	Reduction (%)	UCBOD (mg/l)	ORG-N (mg/l)	ORG-P (mg/l)	**UCBOD (lb O_2/day)**	**ORG-N (lb O_2/day)**		**UCBOD (lb O_2/day)**	**ORG-N (lb O_2/day)**	
1	10	0	0.0	0.0	0.74	0.0	0.0		0.0	0.0	
2	10	0	0.0	0.0	12.96	0.0	0.0		0.0	0.0	
3	10	0	370.4	0.0	25.93	5387.6	0.0		598.6	0.0	
4	10	0	740.7	0.0	0.00	10775.3	0.0		1197.3	0.0	
5	10	0	833.3	0.0	0.00	12122.2	0.0		1346.9	0.0	
6	10	0	740.7	22.2	0.00	10775.3	1477.3		1197.3	164.1	
7	10	0	555.6	22.2	0.00	8081.5	1477.3		897.9	164.1	
8	10	0	555.6	22.2	0.00	8081.5	1477.3		897.9	164.1	
9	10	0	555.6	22.2	3.70	8081.5	1477.3		897.9	164.1	
10	10	0	555.6	22.2	5.56	8081.5	1477.3		897.9	164.1	
11	10	0	468.5	10.2	0.00	6815.4	679.6		757.3	75.5	
12	10	0	468.5	10.2	0.00	6815.4	679.6		757.3	75.5	
13	10	0	451.5	10.2	0.00	6567.5	679.6		729.7	75.5	
14	10	0	408.9	10.2	0.00	5948.0	679.6		660.9	75.5	
15	10	0	366.3	10.2	0.00	5328.4	679.6		592.0	75.5	
16	10	0	323.7	10.2	0.00	4708.8	679.6		523.2	75.5	
17	10	0	281.1	10.2	0.00	4089.2	679.6		454.4	75.5	
					Total	111658.8	12143.3		12406.5	1349.3	

LOWER OUACHITA RIVER MAY PROJECTION AND TMDL WORKSHEET: POINT SOURCES

Input to blue shaded areas Permit limitations

Name	Ouachita 7Q10 (cfs)	Calibration Data (Ouachita River WQ at intake for power plants)							Projection Concentrations							
		Chl-a (ug/l)	UCBOD (mg/l)	Org-N (mg/l)	NH_3-N (mg/l)	NOx-N (mg/l)	Org-P (mg/l)	DIS-P (mg/l)	Chl-a (ug/l)	$CBOD_5$ (mg/l)	UCBOD (mg/l)	Org-N (mg/l)	NH_3-N (mg/l)	NO_3-N (mg/l)	Org-P (mg/l)	Dis-P (mg/l)
Ouachita Power intake																
Ouachita Power 001&002		0	4.9	0.6	0.02	0.2	0.06	0.02	0	1.8	4.0	0.50	0.02	0.15	0.03	0.02
Entergy Sterlington 001&002		0	4.9		0.02	0.2	0.06	0.02	0	1.8	4.0	0.50	0.02	0.15	0.03	0.02
Town of Sterlington POTW 001									100	30.0	69.0	10.00	5.00	0.70	2.50	1.00
Koch Nitrogen 001		0	10.7	0.76	0.4	0.58	0.24	0.15	0	4.7	10.7	0.76	16.50	0.58	0.24	0.15
Angus Chemical 002		0	0.0	8.32	0.31	34.33	0.33	0.01	0	46.1	106.0	8.32	0.31	34.33	0.33	0.01
Entergy Monroe 001		0	5.1	0.57	0.02	0.22	0.06	0.02	0	1.8	4.0	0.50	0.02	0.26	0.07	0.03
Riverwood Industries 001*	1591	12.2	86.4	2.98	1.5	0.12	0.69	0.7	12.2	37.6	86.4	2.98	1.50	0.12	0.69	0.70
City of Monroe POTW 001		0	24.3	1.83	0.34	6.36	0.95	0.29	0	10.0	23.0	0.67	1.33	6.36	0.95	0.29

	CBOD5 (lb O2/d)
Riverwood 001 permit load	9226
Riverwood 001 % reduction	0
Riverwood 001 allocation	9226

* Using the measured UCBOD as typical, the projection discharge flow (including a margin of safety and reduced by the Riverwood 001 % reduction), is calculated from the Ouachita river state line 7Q10 using the formula for the mass discharge limitation (lb/d BOD_5 = 5.95Q-240). The corresponding mass allocation is calculated is the bottom left corner of the chart.

LOWER OUACHITA RIVER MAY PROJECTION AND TMDL WORKSHEET: POINT SOURCES

Input to blue shaded areas Permit limitations

Name	Ouachita 7Q10 (cfs)	Projection Flows				Projection Oxygen Demanding Waste Load Allocations			Projection MOS		
		Design Flows (mgd)	MOS (%)	Projection Flows (mgd)	Projection Flows (cfs)	**UCBOD (lb O_2/d)**	**Org-N (lb O_2/d)**	**NH3-N (lb O_2/d)**	**UCBOD (lb O_2/d)**	**Org-N (lb O_2/d)**	**NH3-N (lb O_2/d)**
Ouachita Power intake		5.49	20	6.87	10.62						
Ouachita Power 001&002		1.24	20	1.55	2.40	41.7	23.7	0.9	10.4	5.9	0.2
Entergy Sterlington 001&002		159.00	20	198.75	307.47	5337.4	3030.0	121.2	1334.3	757.5	30.3
Town of Sterlington POTW 001		0.15	20	0.19	0.29	86.3	57.2	28.6	21.6	14.3	7.1
Koch Nitrogen 001		2.49	20	3.11	4.82	222.1	72.1	1565.9	55.5	18.0	391.5
Angus Chemical 002		0.75	20	0.94	1.45	663.2	237.8	8.9	165.8	59.5	2.2
Entergy Monroe 001		116.00	20	145.00	224.32	3893.9	2210.6	88.4	973.5	552.7	22.1
Riverwood Industries 001*	1591	29.50	20	36.80	56.92	21220.8	3343.3	1682.9	5305.2	835.8	420.7
City of Monroe POTW 001		12.00	20	15.00	23.21	2301.8	306.4	608.3	575.5	76.6	152.1

	CBOD5 (lb O2/d)
Riverwood 001 permit load	9226
Riverwood 001 % reduction	0
Riverwood 001 allocation	9226

Total	33767.3	9281.2	4105.1	8441.8	2320.3	1026.3

LOWER OUACHITA RIVER MAY PROJECTION AND TMDL WORKSHEET: TMDL

PARAMETER	WLA (lb/day)	LA (lb/day)	MOS (lb/day)	TMDL (lb/day)
UCBOD	33767.3	168823.5	27200.0	229790.8
ORG-N	9281.2	43391.9	7141.6	59814.8
NH_3-N	4105.1	1420.9	1184.2	6710.2
SOD	--	3.8	0.4	4.2
TOTAL	47153.7	213640.1	35526.2	296320.0

LOWER OUACHITA RIVER JUNE PROJECTION AND TMDL WORKSHEET:
BENTHIC SOURCES
Input to blue shaded areas

Reach No.	Reach Length (mi)	Calibration Benthic Source Rates					MOS & Reduction		Projection Input Source Rates		
		NH_3-N (mg/ft^2-d)	Theta for NH3 Decay	Dis P (mg/ft2-d)	SOD (gm/ft2-d)	Theta for SOD Decay	MOS (%)	Reduction (%)	NH_3-N (gm/ft^2-d)	Dis P (mg/ft2-d)	SOD (mg/ft2-d)
1	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
2	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
3	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
4	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
5	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
6	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
7	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
8	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
9	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
10	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
11	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
12	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
13	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
14	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
15	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
16	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
17	3.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111

LOWER OUACHITA RIVER JUNE PROJECTION AND TMDL
WORKSHEET: BENTHIC SOURCES
Input to blue shaded areas

Reach No.	Projection Stream Temp (^{o}F)	Projection Stream Width (ft)	**Projection Oxygen Demanding Load Allocation**		**Projection MOS**	
			NH_3-N (lb O_2/d)	**SOD (lb O_2/d)**	**NH_3-N (lb O_2/d)**	**SOD (lb O_2/d)**
1	83.2	404	0.0	0.0	0.0	0.0
2	83.2	405	0.0	0.0	0.0	0.0
3	83.2	400	0.0	0.0	0.0	0.0
4	83.2	445	0.0	0.0	0.0	0.0
5	83.2	464	0.0	0.0	0.0	0.0
6	83.2	507	0.0	0.0	0.0	0.0
7	83.2	549	0.0	0.5	0.0	0.1
8	83.2	591	0.0	0.5	0.0	0.1
9	83.2	556	0.0	0.5	0.0	0.1
10	83.2	523	0.0	0.5	0.0	0.1
11	83.2	490	0.0	0.4	0.0	0.0
12	83.2	468	0.0	0.4	0.0	0.0
13	83.2	445	0.0	0.4	0.0	0.0
14	83.2	497	0.0	0.4	0.0	0.0
15	83.2	548	0.0	0.5	0.0	0.1
16	83.2	601	0.0	0.5	0.0	0.1
17	83.2	647	0.0	0.3	0.0	0.0
		Total	0.0	5.0	0.0	0.6

LOWER OUACHITA RIVER JUNE PROJECTION AND TMDL WORKSHEET: HEADWATER AND TRIBUTARIES

Input to blue shaded areas

	Calibration Concentrations							MOS & Reduction		Projection Input Concentrations			
Name	Chl-a (ug/l)	UCBOD (mg/l)	Org-N (mg/l)	NH_3-N (mg/l)	NOx-N (mg/l)	Org-P (mg/l)	Dis-P (mg/l)	MOS (%)	Reduction (%)	Chl-a (ug/l)	UCBOD (mg/l)	Org-N (mg/l)	NH_3-N (mg/l)
Ouachita headwater	12.4	5.0	0.66	0.02	0.17	0.04	0.02	0	0				
Bayou Bartholomew	15.7	7.3	0.63	0.02	0.09	0.19	0.03	0	0				
Bayou Chauvin	26.4	20.7	1.69	1.12	0.22	0.37	0.57	0	0				
Chenere Creek	12.0	10.9	0.73	0.02	0.03	0.05	0.01	0	0				
	Projection concentrations w/o MOS or Reduction												
Ouachita headwater	12.4	5.0	0.65	0.03	0.17	0.04	0.02	10	0	13.8	5.6	0.72	0.03
Bayou Bartholomew	15.7	7.3	0.63	0.02	0.22	0.19	0.03	10	0	17.4	8.1	0.70	0.02
Bayou de Loutre	12.0	5.0	0.73	0.02	0.09	0.07	0.01	10	0	13.3	5.6	0.81	0.02
Bayou d'Arbonne	12.0	5.0	0.64	0.02	0.08	0.05	0.01	10	0	13.3	5.6	0.71	0.02
Bayou Chauvin	26.4	20.7	1.69	1.12	0.22	0.37	0.57	10	0	29.3	23.0	1.88	1.24
Chenere Creek	12.0	10.9	0.73	0.02	0.03	0.05	0.01	10	0	13.3	12.1	0.81	0.02

LOWER OUACHITA RIVER JUNE PROJECTION AND TMDL WORKSHEET: HEADWATER AND TRIBUTARIES

Input to blue shaded areas

Name	Projection Input Concentrations			Projection Critical Flow (cfs)	Projection Oxygen Demanding Load Allocations			Projection MOS		
	NOx-N (mg/l)	Org-P (mg/l)	Dis-P (mg/l)		**UCBOD (lb O_2/d)**	**Org-N (lb O_2/d)**	**NH_3-N (lb O_2/d)**	**UCBOD (lb O_2/d)**	**Org-N (lb O_2/d)**	**NH_3-N (lb O_2/d)**
Ouachita headwater										
Bayou Bartholomew										
Bayou Chauvin										
Chenere Creek										
Ouachita headwater	0.19	0.04	0.02	1049.0	28258	16788	775	3140	1865	86.1
Bayou Bartholomew	0.24	0.21	0.03	148.0	5821	2296	73	647	255	8.1
Bayou de Loutre	0.10	0.08	0.01	6.0	162	108	3	18	12	0.3
Bayou d'Arbonne	0.09	0.06	0.01	1.8	48	28	1	5	3	0.1
Bayou Chauvin	0.24	0.41	0.63	2.4	268	100	66	30	11	7.4
Chenere Creek	0.03	0.06	0.01	0.5	29	9	0	3	1	0.0
				Total	34586.12	19328.95	917.9886	3842.902	2147.661	101.9987

LOWER OUACHITA RIVER JUNE PROJECTION AND TMDL WORKSHEET: INCREMENTAL FLOW

Input to blue shaded areas

	Calibration Flows and Concentrations				Calibration Loads			Projection Flows and Equivalent Concentrations Prior to MOS and Reduction			
REACH	FLOW (cfs/reach)	UCBOD (mg/l)	ORG-N (mg/l)	ORG-P (mg/l)	UCBOD (lb/day)	ORG-N (lb/day)	ORG-P (lb/day)	FLOW (cfs/reach)	UCBOD (mg/l)	ORG-N (mg/l)	ORG-P (mg/l)
1	50.0	0.0	0.00	0.04	0.0	0.0	10.8	3.0	0.0	0.0	0.7
2	50.0	0.0	0.00	0.70	0.0	0.0	188.6	3.0	0.0	0.0	11.7
3	50.0	20.0	0.00	1.40	5387.6	0.0	377.1	3.0	333.3	0.0	23.3
4	50.0	40.0	0.00	0.00	10775.3	0.0	0.0	3.0	666.7	0.0	0.0
5	50.0	45.0	0.00	0.00	12122.2	0.0	0.0	3.0	750.0	0.0	0.0
6	50.0	40.0	1.20	0.00	10775.3	323.3	0.0	3.0	666.7	20.0	0.0
7	50.0	30.0	1.20	0.00	8081.5	323.3	0.0	3.0	500.0	20.0	0.0
8	50.0	30.0	1.20	0.00	8081.5	323.3	0.0	3.0	500.0	20.0	0.0
9	50.0	30.0	1.20	0.20	8081.5	323.3	53.9	3.0	500.0	20.0	3.3
10	50.0	30.0	1.20	0.30	8081.5	323.3	80.8	3.0	500.0	20.0	5.0
11	23.0	55.0	1.20	0.00	6815.4	148.7	0.0	3.0	421.7	9.2	0.0
12	23.0	55.0	1.20	0.00	6815.4	148.7	0.0	3.0	421.7	9.2	0.0
13	23.0	53.0	1.20	0.00	6567.5	148.7	0.0	3.0	406.3	9.2	0.0
14	23.0	48.0	1.20	0.00	5948.0	148.7	0.0	3.0	368.0	9.2	0.0
15	23.0	43.0	1.20	0.00	5328.4	148.7	0.0	3.0	329.7	9.2	0.0
16	23.0	38.0	1.20	0.00	4708.8	148.7	0.0	3.0	291.3	9.2	0.0
17	23.0	33.0	1.20	0.00	4089.2	148.7	0.0	3.0	253.0	9.2	0.0

LOWER OUACHITA RIVER JUNE PROJECTION AND TMDL WORKSHEET: INCREMENTAL FLOW

Input to blue shaded areas

	MOS & Reduction		Projection Input Concentrations			**Projection Oxygen Demanding Load Allocation**			**Projection MOS**		
REACH	MOS (%)	Reduction (%)	UCBOD (mg/l)	ORG-N (mg/l)	ORG-P (mg/l)	**UCBOD (lb O_2/day)**	**ORG-N (lb O_2/day)**		**UCBOD (lb O_2/day)**	**ORG-N (lb O_2/day)**	
1	10	0	0.0	0.0	0.74	0.0	0.0		0.0	0.0	
2	10	0	0.0	0.0	12.96	0.0	0.0		0.0	0.0	
3	10	0	370.4	0.0	25.93	5387.6	0.0		598.6	0.0	
4	10	0	740.7	0.0	0.00	10775.3	0.0		1197.3	0.0	
5	10	0	833.3	0.0	0.00	12122.2	0.0		1346.9	0.0	
6	10	0	740.7	22.2	0.00	10775.3	1477.3		1197.3	164.1	
7	10	0	555.6	22.2	0.00	8081.5	1477.3		897.9	164.1	
8	10	0	555.6	22.2	0.00	8081.5	1477.3		897.9	164.1	
9	10	0	555.6	22.2	3.70	8081.5	1477.3		897.9	164.1	
10	10	0	555.6	22.2	5.56	8081.5	1477.3		897.9	164.1	
11	10	0	468.5	10.2	0.00	6815.4	679.6		757.3	75.5	
12	10	0	468.5	10.2	0.00	6815.4	679.6		757.3	75.5	
13	10	0	451.5	10.2	0.00	6567.5	679.6		729.7	75.5	
14	10	0	408.9	10.2	0.00	5948.0	679.6		660.9	75.5	
15	10	0	366.3	10.2	0.00	5328.4	679.6		592.0	75.5	
16	10	0	323.7	10.2	0.00	4708.8	679.6		523.2	75.5	
17	10	0	281.1	10.2	0.00	4089.2	679.6		454.4	75.5	
					Total	111658.8	12143.3		12406.5	1349.3	

LOWER OUACHITA RIVER JUNE PROJECTION AND TMDL WORKSHEET: POINT SOURCES

Input to blue shaded areas

Permit limitations

Name	Ouachita 7Q10 (cfs)	Calibration Data (Ouachita River WQ at intake for power plants)							Projection Concentrations							
		Chl-a (ug/l)	UCBOD (mg/l)	Org-N (mg/l)	NH_3-N (mg/l)	NOx-N (mg/l)	Org-P (mg/l)	DIS-P (mg/l)	Chl-a (ug/l)	$CBOD_5$ (mg/l)	UCBOD (mg/l)	Org-N (mg/l)	NH_3-N (mg/l)	NO_3-N (mg/l)	Org-P (mg/l)	Dis-P (mg/l)
Ouachita Power intake																
Ouachita Power 001&002		0	4.9	0.6	0.02	0.2	0.06	0.02	0	1.8	4.0	0.50	0.02	0.15	0.03	0.02
Entergy Sterlington 001&002		0	4.9		0.02	0.2	0.06	0.02	0	1.8	4.0	0.50	0.02	0.15	0.03	0.02
Town of Sterlington POTW 001									100	30.0	69.0	10.00	5.00	0.70	2.50	1.00
Koch Nitrogen 001		0	10.7	0.76	0.4	0.58	0.24	0.15	0	4.7	10.7	0.76	16.50	0.58	0.24	0.15
Angus Chemical 002		0	0.0	8.32	0.31	34.33	0.33	0.01	0	46.1	106.0	8.32	0.31	34.33	0.33	0.01
Entergy Monroe 001		0	5.1	0.57	0.02	0.22	0.06	0.02	0	1.8	4.0	0.50	0.02	0.26	0.07	0.03
Riverwood Industries 001*	1049	12.2	86.4	2.98	1.5	0.12	0.69	0.7	12.2	37.6	86.4	2.98	1.50	0.12	0.69	0.70
City of Monroe POTW 001		0	24.3	1.83	0.34	6.36	0.95	0.29	0	10.0	23.0	0.67	1.33	6.36	0.95	0.29

	CBOD5 (lb O2/d)
Riverwood 001 permit load	6002
Riverwood 001 % reduction	0
Riverwood 001 allocation	6002

* Using the measured UCBOD as typical, the projection discharge flow (including a margin of safety and reduced by the Riverwood 001 % reduction), is calculated from the Ouachita river state line 7Q10 using the formula for the mass discharge limitation (lb/d BOD_5 = 5.95Q-240). The corresponding mass allocation is calculated is the bottom left corner of the chart.

LOWER OUACHITA RIVER JUNE PROJECTION AND TMDL WORKSHEET: POINT SOURCES

Input to blue shaded areas Permit limitations

Name	Ouachita 7Q10 (cfs)	Projection Flows				Projection Oxygen Demanding Waste Load Allocations			Projection MOS		
		Design Flows (mgd)	MOS (%)	Projection Flows (mgd)	Projection Flows (cfs)	UCBOD (lb O_2/d)	Org-N (lb O_2/d)	NH3-N (lb O_2/d)	UCBOD (lb O_2/d)	Org-N (lb O_2/d)	NH3-N (lb O_2/d)
Ouachita Power intake		5.49	20	6.87	10.62						
Ouachita Power 001&002		1.24	20	1.55	2.40	41.7	23.7	0.9	10.4	5.9	0.2
Entergy Sterlington 001&002		159.00	20	198.75	307.47	5337.4	3030.0	121.2	1334.3	757.5	30.3
Town of Sterlington POTW 001		0.15	20	0.19	0.29	86.3	57.2	28.6	21.6	14.3	7.1
Koch Nitrogen 001		2.49	20	3.11	4.82	222.1	72.1	1565.9	55.5	18.0	391.5
Angus Chemical 002		0.75	20	0.94	1.45	663.2	237.8	8.9	165.8	59.5	2.2
Entergy Monroe 001		116.00	20	145.00	224.32	3893.9	2210.6	88.4	973.5	552.7	22.1
Riverwood Industries 001*	1049	29.50	20	23.93	37.03	13803.6	2174.7	1094.7	3450.9	543.7	273.7
City of Monroe POTW 001		12.00	20	15.00	23.21	2301.8	306.4	608.3	575.5	76.6	152.1
	CBOD5 (lb O2/d)										
Riverwood 001 permit load	6002										
Riverwood 001 % reduction	0										
Riverwood 001 allocation	6002										
					Total	26350.1	8112.6	3516.9	6587.5	2028.2	879.2

LOWER OUACHITA RIVER JUNE PROJECTION AND TMDL WORKSHEET: TMDL

PARAMETER	WLA (lb/day)	LA (lb/day)	MOS (lb/day)	TMDL (lb/day)
UCBOD	26350.1	146245.0	22837.0	195432.0
ORG-N	8112.6	31472.3	5525.1	45110.0
NH_3-N	3516.9	918.0	981.2	5416.1
SOD	--	5.0	0.6	5.6
TOTAL	37979.6	178640.3	29343.8	245963.7

LOWER OUACHITA RIVER JULY PROJECTION AND TMDL WORKSHEET:
BENTHIC SOURCES
Input to blue shaded areas

Reach No.	Reach Length (mi)	Calibration Benthic Source Rates					MOS & Reduction		Projection Input Source Rates		
		NH_3-N (mg/ft^2-d)	Theta for NH3 Decay	Dis P (mg/ft2-d)	SOD (gm/ft2-d)	Theta for SOD Decay	MOS (%)	Reduction (%)	NH_3-N (gm/ft^2-d)	Dis P (mg/ft2-d)	SOD (mg/ft2-d)
1	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
2	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
3	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
4	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
5	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
6	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
7	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
8	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
9	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
10	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
11	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
12	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
13	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
14	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
15	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
16	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
17	3.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111

LOWER OUACHITA RIVER JULY PROJECTION AND TMDL
WORKSHEET: BENTHIC SOURCES
Input to blue shaded areas

Reach No.	Projection Stream Temp (^{o}F)	Projection Stream Width (ft)	**Projection Oxygen Demanding Load Allocation**		**Projection MOS**	
			NH_3-N (lb O_2/d)	**SOD (lb O_2/d)**	**NH_3-N (lb O_2/d)**	**SOD (lb O_2/d)**
1	83.2	404	0.0	0.0	0.0	0.0
2	83.2	405	0.0	0.0	0.0	0.0
3	83.2	400	0.0	0.0	0.0	0.0
4	83.2	445	0.0	0.0	0.0	0.0
5	83.2	464	0.0	0.0	0.0	0.0
6	83.2	507	0.0	0.0	0.0	0.0
7	83.2	549	0.0	0.5	0.0	0.1
8	83.2	591	0.0	0.5	0.0	0.1
9	83.2	556	0.0	0.5	0.0	0.1
10	83.2	523	0.0	0.5	0.0	0.1
11	83.2	490	0.0	0.4	0.0	0.0
12	83.2	468	0.0	0.4	0.0	0.0
13	83.2	445	0.0	0.4	0.0	0.0
14	83.2	497	0.0	0.4	0.0	0.0
15	83.2	548	0.0	0.5	0.0	0.1
16	83.2	601	0.0	0.5	0.0	0.1
17	83.2	647	0.0	0.3	0.0	0.0
		Total	0.0	5.0	0.0	0.6

LOWER OUACHITA RIVER JULY PROJECTION AND TMDL WORKSHEET: HEADWATER AND TRIBUTARIES

Input to blue shaded areas

	Calibration Concentrations							MOS & Reduction		Projection Input Concentrations			
Name	Chl-a (ug/l)	UCBOD (mg/l)	Org-N (mg/l)	NH_3-N (mg/l)	NOx-N (mg/l)	Org-P (mg/l)	Dis-P (mg/l)	MOS (%)	Reduction (%)	Chl-a (ug/l)	UCBOD (mg/l)	Org-N (mg/l)	NH_3-N (mg/l)
Ouachita headwater	12.4	5.0	0.66	0.02	0.17	0.04	0.02	0	0				
Bayou Bartholomew	15.7	7.3	0.63	0.02	0.09	0.19	0.03	0	0				
Bayou Chauvin	26.4	20.7	1.69	1.12	0.22	0.37	0.57	0	0				
Chenere Creek	12.0	10.9	0.73	0.02	0.03	0.05	0.01	0	0				
	Projection concentrations w/o MOS or Reduction												
Ouachita headwater	12.4	5.0	0.65	0.03	0.17	0.04	0.02	10	0	13.8	5.6	0.72	0.03
Bayou Bartholomew	15.7	7.3	0.63	0.02	0.22	0.19	0.03	10	0	17.4	8.1	0.70	0.02
Bayou de Loutre	12.0	5.0	0.73	0.02	0.09	0.07	0.01	10	0	13.3	5.6	0.81	0.02
Bayou d'Arbonne	12.0	5.0	0.64	0.02	0.08	0.05	0.01	10	0	13.3	5.6	0.71	0.02
Bayou Chauvin	26.4	20.7	1.69	1.12	0.22	0.37	0.57	10	0	29.3	23.0	1.88	1.24
Chenere Creek	12.0	10.9	0.73	0.02	0.03	0.05	0.01	10	0	13.3	12.1	0.81	0.02

LOWER OUACHITA RIVER JULY PROJECTION AND TMDL WORKSHEET: HEADWATER AND TRIBUTARIES

Input to blue shaded areas

Name	Projection Input Concentrations			Projection Critical Flow (cfs)	**Projection Oxygen Demanding Load Allocations**			**Projection MOS**		
	NOx-N (mg/l)	Org-P (mg/l)	Dis-P (mg/l)		**UCBOD (lb O_2/d)**	**Org-N (lb O_2/d)**	**NH_3-N (lb O_2/d)**	**UCBOD (lb O_2/d)**	**Org-N (lb O_2/d)**	**NH_3-N (lb O_2/d)**
Ouachita headwater										
Bayou Bartholomew										
Bayou Chauvin										
Chenere Creek										
Ouachita headwater	0.19	0.04	0.02	894.0	24083	14308	660	2676	1590	73.4
Bayou Bartholomew	0.24	0.21	0.03	74.0	2910	1148	36	323	128	4.0
Bayou de Loutre	0.10	0.08	0.01	3.9	105	70	2	12	8	0.2
Bayou d'Arbonne	0.09	0.06	0.01	0.1	3	2	0	0	0	0.0
Bayou Chauvin	0.24	0.41	0.63	2.4	268	100	66	30	11	7.4
Chenere Creek	0.03	0.06	0.01	0.5	29	9	0	3	1	0.0
				Total	27397.93	15635.94	765.1874	3044.214	1737.327	85.02083

LOWER OUACHITA RIVER JULY PROJECTION AND TMDL WORKSHEET: INCREMENTAL FLOW

Input to blue shaded areas

REACH	Calibration Flows and Concentrations				Calibration Loads			Projection Flows and Equivalent Concentrations Prior to MOS and Reduction			
	FLOW (cfs/reach)	UCBOD (mg/l)	ORG-N (mg/l)	ORG-P (mg/l)	UCBOD (lb/day)	ORG-N (lb/day)	ORG-P (lb/day)	FLOW (cfs/reach)	UCBOD (mg/l)	ORG-N (mg/l)	ORG-P (mg/l)
1	50.0	0.0	0.00	0.04	0.0	0.0	10.8	3.0	0.0	0.0	0.7
2	50.0	0.0	0.00	0.70	0.0	0.0	188.6	3.0	0.0	0.0	11.7
3	50.0	20.0	0.00	1.40	5387.6	0.0	377.1	3.0	333.3	0.0	23.3
4	50.0	40.0	0.00	0.00	10775.3	0.0	0.0	3.0	666.7	0.0	0.0
5	50.0	45.0	0.00	0.00	12122.2	0.0	0.0	3.0	750.0	0.0	0.0
6	50.0	40.0	1.20	0.00	10775.3	323.3	0.0	3.0	666.7	20.0	0.0
7	50.0	30.0	1.20	0.00	8081.5	323.3	0.0	3.0	500.0	20.0	0.0
8	50.0	30.0	1.20	0.00	8081.5	323.3	0.0	3.0	500.0	20.0	0.0
9	50.0	30.0	1.20	0.20	8081.5	323.3	53.9	3.0	500.0	20.0	3.3
10	50.0	30.0	1.20	0.30	8081.5	323.3	80.8	3.0	500.0	20.0	5.0
11	23.0	55.0	1.20	0.00	6815.4	148.7	0.0	3.0	421.7	9.2	0.0
12	23.0	55.0	1.20	0.00	6815.4	148.7	0.0	3.0	421.7	9.2	0.0
13	23.0	53.0	1.20	0.00	6567.5	148.7	0.0	3.0	406.3	9.2	0.0
14	23.0	48.0	1.20	0.00	5948.0	148.7	0.0	3.0	368.0	9.2	0.0
15	23.0	43.0	1.20	0.00	5328.4	148.7	0.0	3.0	329.7	9.2	0.0
16	23.0	38.0	1.20	0.00	4708.8	148.7	0.0	3.0	291.3	9.2	0.0
17	23.0	33.0	1.20	0.00	4089.2	148.7	0.0	3.0	253.0	9.2	0.0

LOWER OUACHITA RIVER JULY PROJECTION AND TMDL WORKSHEET: INCREMENTAL FLOW

Input to blue shaded areas

	MOS & Reduction		Projection Input Concentrations			**Projection Oxygen Demanding Load Allocation**			**Projection MOS**		
REACH	MOS (%)	Reduction (%)	UCBOD (mg/l)	ORG-N (mg/l)	ORG-P (mg/l)	**UCBOD (lb O_2/day)**	**ORG-N (lb O_2/day)**		**UCBOD (lb O_2/day)**	**ORG-N (lb O_2/day)**	
1	10	0	0.0	0.0	0.74	0.0	0.0		0.0	0.0	
2	10	0	0.0	0.0	12.96	0.0	0.0		0.0	0.0	
3	10	0	370.4	0.0	25.93	5387.6	0.0		598.6	0.0	
4	10	0	740.7	0.0	0.00	10775.3	0.0		1197.3	0.0	
5	10	0	833.3	0.0	0.00	12122.2	0.0		1346.9	0.0	
6	10	0	740.7	22.2	0.00	10775.3	1477.3		1197.3	164.1	
7	10	0	555.6	22.2	0.00	8081.5	1477.3		897.9	164.1	
8	10	0	555.6	22.2	0.00	8081.5	1477.3		897.9	164.1	
9	10	0	555.6	22.2	3.70	8081.5	1477.3		897.9	164.1	
10	10	0	555.6	22.2	5.56	8081.5	1477.3		897.9	164.1	
11	10	0	468.5	10.2	0.00	6815.4	679.6		757.3	75.5	
12	10	0	468.5	10.2	0.00	6815.4	679.6		757.3	75.5	
13	10	0	451.5	10.2	0.00	6567.5	679.6		729.7	75.5	
14	10	0	408.9	10.2	0.00	5948.0	679.6		660.9	75.5	
15	10	0	366.3	10.2	0.00	5328.4	679.6		592.0	75.5	
16	10	0	323.7	10.2	0.00	4708.8	679.6		523.2	75.5	
17	10	0	281.1	10.2	0.00	4089.2	679.6		454.4	75.5	
					Total	111658.8	12143.3		12406.5	1349.3	

LOWER OUACHITA RIVER JULY PROJECTION AND TMDL WORKSHEET: POINT SOURCES

Input to blue shaded areas Permit limitations

Name	Ouachita 7Q10 (cfs)	Calibration Data (Ouachita River WQ at intake for power plants)							Projection Concentrations							
		Chl-a (ug/l)	UCBOD (mg/l)	Org-N (mg/l)	NH_3-N (mg/l)	NOx-N (mg/l)	Org-P (mg/l)	DIS-P (mg/l)	Chl-a (ug/l)	$CBOD_5$ (mg/l)	UCBOD (mg/l)	Org-N (mg/l)	NH_3-N (mg/l)	NO_3-N (mg/l)	Org-P (mg/l)	Dis-P (mg/l)
Ouachita Power intake																
Ouachita Power 001&002		0	4.9	0.6	0.02	0.2	0.06	0.02	0	1.8	4.0	0.50	0.02	0.15	0.03	0.02
Entergy Sterlington 001&002		0	4.9		0.02	0.2	0.06	0.02	0	1.8	4.0	0.50	0.02	0.15	0.03	0.02
Town of Sterlington POTW 001									100	30.0	69.0	10.00	5.00	0.70	2.50	1.00
Koch Nitrogen 001		0	10.7	0.76	0.4	0.58	0.24	0.15	0	4.7	10.7	0.76	16.50	0.58	0.24	0.15
Angus Chemical 002		0	0.0	8.32	0.31	34.33	0.33	0.01	0	46.1	106.0	8.32	0.31	34.33	0.33	0.01
Entergy Monroe 001		0	5.1	0.57	0.02	0.22	0.06	0.02	0	1.8	4.0	0.50	0.02	0.26	0.07	0.03
Riverwood Industries 001*	894	12.2	86.4	2.98	1.5	0.12	0.69	0.7	12.2	37.6	86.4	2.98	1.50	0.12	0.69	0.70
City of Monroe POTW 001		0	24.3	1.83	0.34	6.36	0.95	0.29	0	10.0	23.0	0.67	1.33	6.36	0.95	0.29

	CBOD5 (lb O2/d)
Riverwood 001 permit load	5079
Riverwood 001 % reduction	0
Riverwood 001 allocation	5079

* Using the measured UCBOD as typical, the projection discharge flow (including a margin of safety and reduced by the Riverwood 001 % reduction), is calculated from the Ouachita river state line 7Q10 using the formula for the mass discharge limitation (lb/d BOD_5 = 5.95Q-240). The corresponding mass allocation is calculated is the bottom left corner of the chart.

LOWER OUACHITA RIVER JULY PROJECTION AND TMDL WORKSHEET: POINT SOURCES

Input to blue shaded areas Input to blue shaded areas Permit limitations

Name	Ouachita 7Q10 (cfs)	Projection Flows				Projection Oxygen Demanding Waste Load Allocations			Projection MOS		
		Design Flows (mgd)	MOS (%)	Projection Flows (mgd)	Projection Flows (cfs)	UCBOD (lb O_2/d)	Org-N (lb O_2/d)	NH3-N (lb O_2/d)	UCBOD (lb O_2/d)	Org-N (lb O_2/d)	NH3-N (lb O_2/d)
Ouachita Power intake		5.49	20	6.87	10.62						
Ouachita Power 001&002		1.24	20	1.55	2.40	41.7	23.7	0.9	10.4	5.9	0.2
Entergy Sterlington 001&002		159.00	20	198.75	307.47	5337.4	3030.0	121.2	1334.3	757.5	30.3
Town of Sterlington POTW 001		0.15	20	0.19	0.29	86.3	57.2	28.6	21.6	14.3	7.1
Koch Nitrogen 001		2.49	20	3.11	4.82	222.1	72.1	1565.9	55.5	18.0	391.5
Angus Chemical 002		0.75	20	0.94	1.45	663.2	237.8	8.9	165.8	59.5	2.2
Entergy Monroe 001		116.00	20	145.00	224.32	3893.9	2210.6	88.4	973.5	552.7	22.1
Riverwood Industries 001*	894	29.50	20	20.26	31.34	11682.4	1840.6	926.5	2920.6	460.1	231.6
City of Monroe POTW 001		12.00	20	15.00	23.21	2301.8	306.4	608.3	575.5	76.6	152.1
	CBOD5 (lb O2/d)										
Riverwood 001 permit load	5079										
Riverwood 001 % reduction	0										
Riverwood 001 allocation	5079										
					Total	24228.9	7778.4	3348.7	6057.2	1944.6	837.2

LOWER OUACHITA RIVER JULY PROJECTION AND TMDL WORKSHEET: TMDL

PARAMETER	WLA (lb/day)	LA (lb/day)	MOS (lb/day)	TMDL (lb/day)
UCBOD	24228.9	139056.8	21508.0	184793.6
ORG-N	7778.4	27779.3	5031.2	40588.9
NH_3-N	3348.7	765.2	922.2	5036.1
SOD	--	5.0	0.6	5.6
TOTAL	35356.0	167606.3	27461.9	230424.2

LOWER OUACHITA RIVER AUGUST PROJECTION AND TMDL WORKSHEET -
WITHOUT REDUCTION: BENTHIC SOURCES
Input to blue shaded areas

		Calibration Benthic Source Rates					MOS & Reduction		Projection Input Source Rates		
Reach No.	Reach Length (mi)	NH_3-N (mg/ft^2-d)	Theta for NH3 Decay	Dis P (mg/ft2-d)	SOD (gm/ft2-d)	Theta for SOD Decay	MOS (%)	Reduction (%)	NH_3-N (gm/ft^2-d)	Dis P (mg/ft2-d)	SOD (mg/ft2-d)
1	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
2	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
3	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
4	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
5	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
6	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
7	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
8	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
9	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
10	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
11	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
12	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
13	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
14	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
15	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
16	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
17	3.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111

LOWER OUACHITA RIVER AUGUST PROJECTION AND TMDL
WORKSHEET - WITHOUT REDUCTION: BENTHIC SOURCES
Input to blue shaded areas

Reach No.	Projection Stream Temp (^{o}F)	Projection Stream Width (ft)	Projection Oxygen Demanding Load Allocation		Projection MOS	
			NH_3-N (lb O_2/d)	**SOD (lb O_2/d)**	**NH_3-N (lb O_2/d)**	**SOD (lb O_2/d)**
1	83.2	404	0.0	0.0	0.0	0.0
2	83.2	405	0.0	0.0	0.0	0.0
3	83.2	400	0.0	0.0	0.0	0.0
4	83.2	445	0.0	0.0	0.0	0.0
5	83.2	464	0.0	0.0	0.0	0.0
6	83.2	507	0.0	0.0	0.0	0.0
7	83.2	549	0.0	0.5	0.0	0.1
8	83.2	591	0.0	0.5	0.0	0.1
9	83.2	556	0.0	0.5	0.0	0.1
10	83.2	523	0.0	0.5	0.0	0.1
11	83.2	490	0.0	0.4	0.0	0.0
12	83.2	468	0.0	0.4	0.0	0.0
13	83.2	445	0.0	0.4	0.0	0.0
14	83.2	497	0.0	0.4	0.0	0.0
15	83.2	548	0.0	0.5	0.0	0.1
16	83.2	601	0.0	0.5	0.0	0.1
17	83.2	647	0.0	0.3	0.0	0.0
		Total	0.0	5.0	0.0	0.6

LOWER OUACHITA RIVER AUGUST PROJECTION AND TMDL WORKSHEET - WITHOUT REDUCTION: HEADWATER AND TRIBUTARIES

Input to blue shaded areas

	Calibration Concentrations							MOS & Reduction		Projection Input Concentrations			
Name	Chl-a (ug/l)	UCBOD (mg/l)	Org-N (mg/l)	NH_3-N (mg/l)	NOx-N (mg/l)	Org-P (mg/l)	Dis-P (mg/l)	MOS (%)	Reduction (%)	Chl-a (ug/l)	UCBOD (mg/l)	Org-N (mg/l)	NH_3-N (mg/l)
Ouachita headwater	12.4	5.0	0.66	0.02	0.17	0.04	0.02	0	0				
Bayou Bartholomew	15.7	7.3	0.63	0.02	0.09	0.19	0.03	0	0				
Bayou Chauvin	26.4	20.7	1.69	1.12	0.22	0.37	0.57	0	0				
Chenere Creek	12.0	10.9	0.73	0.02	0.03	0.05	0.01	0	0				
	Projection concentrations w/o MOS or Reduction												
Ouachita headwater	12.4	5.0	0.65	0.03	0.17	0.04	0.02	10	0	13.8	5.6	0.72	0.03
Bayou Bartholomew	15.7	7.3	0.63	0.02	0.22	0.19	0.03	10	0	17.4	8.1	0.70	0.02
Bayou de Loutre	12.0	5.0	0.73	0.02	0.09	0.07	0.01	10	0	13.3	5.6	0.81	0.02
Bayou d'Arbonne	12.0	5.0	0.64	0.02	0.08	0.05	0.01	10	0	13.3	5.6	0.71	0.02
Bayou Chauvin	26.4	20.7	1.69	1.12	0.22	0.37	0.57	10	0	29.3	23.0	1.88	1.24
Chenere Creek	12.0	10.9	0.73	0.02	0.03	0.05	0.01	10	0	13.3	12.1	0.81	0.02

LOWER OUACHITA RIVER AUGUST PROJECTION AND TMDL WORKSHEET - WITHOUT REDUCTION: HEADWATER AND TRIBUTARIES

Input to blue shaded areas

Name	Projection Input Concentrations			Projection Critical Flow (cfs)	Projection Oxygen Demanding Load Allocations			Projection MOS		
	NOx-N (mg/l)	Org-P (mg/l)	Dis-P (mg/l)		**UCBOD (lb O_2/d)**	**Org-N (lb O_2/d)**	**NH_3-N (lb O_2/d)**	**UCBOD (lb O_2/d)**	**Org-N (lb O_2/d)**	**NH_3-N (lb O_2/d)**
Ouachita headwater										
Bayou Bartholomew										
Bayou Chauvin										
Chenere Creek										
Ouachita headwater	0.19	0.04	0.02	894.0	24083	14308	660	2676	1590	73.4
Bayou Bartholomew	0.24	0.21	0.03	74.0	2910	1148	36	323	128	4.0
Bayou de Loutre	0.10	0.08	0.01	3.9	105	70	2	12	8	0.2
Bayou d'Arbonne	0.09	0.06	0.01	0.1	3	2	0	0	0	0.0
Bayou Chauvin	0.24	0.41	0.63	2.4	268	100	66	30	11	7.4
Chenere Creek	0.03	0.06	0.01	0.5	29	9	0	3	1	0.0
				Total	27397.93	15635.94	765.1874	3044.214	1737.327	85.02083

LOWER OUACHITA RIVER AUGUST PROJECTION AND TMDL WORKSHEET - WITHOUT REDUCTION: INCREMENTAL FLOW

Input to blue shaded areas

	Calibration Flows and Concentrations				Calibration Loads			Projection Flows and Equivalent Concentrations Prior to MOS and Reduction			
REACH	FLOW (cfs/reach)	UCBOD (mg/l)	ORG-N (mg/l)	ORG-P (mg/l)	UCBOD (lb/day)	ORG-N (lb/day)	ORG-P (lb/day)	FLOW (cfs/reach)	UCBOD (mg/l)	ORG-N (mg/l)	ORG-P (mg/l)
1	50.0	0.0	0.00	0.04	0.0	0.0	10.8	3.0	0.0	0.0	0.7
2	50.0	0.0	0.00	0.70	0.0	0.0	188.6	3.0	0.0	0.0	11.7
3	50.0	20.0	0.00	1.40	5387.6	0.0	377.1	3.0	333.3	0.0	23.3
4	50.0	40.0	0.00	0.00	10775.3	0.0	0.0	3.0	666.7	0.0	0.0
5	50.0	45.0	0.00	0.00	12122.2	0.0	0.0	3.0	750.0	0.0	0.0
6	50.0	40.0	1.20	0.00	10775.3	323.3	0.0	3.0	666.7	20.0	0.0
7	50.0	30.0	1.20	0.00	8081.5	323.3	0.0	3.0	500.0	20.0	0.0
8	50.0	30.0	1.20	0.00	8081.5	323.3	0.0	3.0	500.0	20.0	0.0
9	50.0	30.0	1.20	0.20	8081.5	323.3	53.9	3.0	500.0	20.0	3.3
10	50.0	30.0	1.20	0.30	8081.5	323.3	80.8	3.0	500.0	20.0	5.0
11	23.0	55.0	1.20	0.00	6815.4	148.7	0.0	3.0	421.7	9.2	0.0
12	23.0	55.0	1.20	0.00	6815.4	148.7	0.0	3.0	421.7	9.2	0.0
13	23.0	53.0	1.20	0.00	6567.5	148.7	0.0	3.0	406.3	9.2	0.0
14	23.0	48.0	1.20	0.00	5948.0	148.7	0.0	3.0	368.0	9.2	0.0
15	23.0	43.0	1.20	0.00	5328.4	148.7	0.0	3.0	329.7	9.2	0.0
16	23.0	38.0	1.20	0.00	4708.8	148.7	0.0	3.0	291.3	9.2	0.0
17	23.0	33.0	1.20	0.00	4089.2	148.7	0.0	3.0	253.0	9.2	0.0

LOWER OUACHITA RIVER AUGUST PROJECTION AND TMDL WORKSHEET - WITHOUT REDUCTION: INCREMENTAL FLOW

Input to blue shaded areas

	MOS & Reduction		Projection Input Concentrations			**Projection Oxygen Demanding Load Allocation**			**Projection MOS**		
REACH	MOS (%)	Reduction (%)	UCBOD (mg/l)	ORG-N (mg/l)	ORG-P (mg/l)	**UCBOD (lb O_2/day)**	**ORG-N (lb O_2/day)**		**UCBOD (lb O_2/day)**	**ORG-N (lb O_2/day)**	
1	10	0	0.0	0.0	0.74	0.0	0.0		0.0	0.0	
2	10	0	0.0	0.0	12.96	0.0	0.0		0.0	0.0	
3	10	0	370.4	0.0	25.93	5387.6	0.0		598.6	0.0	
4	10	0	740.7	0.0	0.00	10775.3	0.0		1197.3	0.0	
5	10	0	833.3	0.0	0.00	12122.2	0.0		1346.9	0.0	
6	10	0	740.7	22.2	0.00	10775.3	1477.3		1197.3	164.1	
7	10	0	555.6	22.2	0.00	8081.5	1477.3		897.9	164.1	
8	10	0	555.6	22.2	0.00	8081.5	1477.3		897.9	164.1	
9	10	0	555.6	22.2	3.70	8081.5	1477.3		897.9	164.1	
10	10	0	555.6	22.2	5.56	8081.5	1477.3		897.9	164.1	
11	10	0	468.5	10.2	0.00	6815.4	679.6		757.3	75.5	
12	10	0	468.5	10.2	0.00	6815.4	679.6		757.3	75.5	
13	10	0	451.5	10.2	0.00	6567.5	679.6		729.7	75.5	
14	10	0	408.9	10.2	0.00	5948.0	679.6		660.9	75.5	
15	10	0	366.3	10.2	0.00	5328.4	679.6		592.0	75.5	
16	10	0	323.7	10.2	0.00	4708.8	679.6		523.2	75.5	
17	10	0	281.1	10.2	0.00	4089.2	679.6		454.4	75.5	
					Total	111658.8	12143.3		12406.5	1349.3	

LOWER OUACHITA RIVER AUGUST PROJECTION AND TMDL WORKSHEET - WITHOUT REDUCTION: POINT SOURCES

Input to blue shaded areas

Permit limitations

Name	Ouachita 7Q10 (cfs)	Calibration Data (Ouachita River WQ at intake for power plants)							Projection Concentrations							
		Chl-a (ug/l)	UCBOD (mg/l)	Org-N (mg/l)	NH_3-N (mg/l)	NOx-N (mg/l)	Org-P (mg/l)	DIS-P (mg/l)	Chl-a (ug/l)	$CBOD_5$ (mg/l)	UCBOD (mg/l)	Org-N (mg/l)	NH_3-N (mg/l)	NO_3-N (mg/l)	Org-P (mg/l)	Dis-P (mg/l)
Ouachita Power intake																
Ouachita Power 001&002		0	4.9	0.6	0.02	0.2	0.06	0.02	0	1.8	4.0	0.50	0.02	0.15	0.03	0.02
Entergy Sterlington 001&002		0	4.9		0.02	0.2	0.06	0.02	0	1.8	4.0	0.50	0.02	0.15	0.03	0.02
Town of Sterlington POTW 001									100	30.0	69.0	10.00	5.00	0.70	2.50	1.00
Koch Nitrogen 001		0	10.7	0.76	0.4	0.58	0.24	0.15	0	4.7	10.7	0.76	16.50	0.58	0.24	0.15
Angus Chemical 002		0	0.0	8.32	0.31	34.33	0.33	0.01	0	46.1	106.0	8.32	0.31	34.33	0.33	0.01
Entergy Monroe 001		0	5.1	0.57	0.02	0.22	0.06	0.02	0	1.8	4.0	0.50	0.02	0.26	0.07	0.03
Riverwood Industries 001*	802	12.2	86.4	2.98	1.5	0.12	0.69	0.7	12.2	37.6	86.4	2.98	1.50	0.12	0.69	0.70
City of Monroe POTW 001		0	24.3	1.83	0.34	6.36	0.95	0.29	0	10.0	23.0	0.67	1.33	6.36	0.95	0.29
	CBOD5 (lb O2/d)															
Riverwood 001 permit load	4532															
Riverwood 001 % reduction	0															
Riverwood 001 allocation	4532															

* Using the measured UCBOD as typical, the projection discharge flow (including a margin of safety and reduced by the Riverwood 001 % reduction), is calculated from the Ouachita river state line 7Q10 using the formula for the mass discharge limitation (lb/d BOD_5 = 5.95Q-240). The corresponding mass allocation is calculated is the bottom left corner of the chart.

LOWER OUACHITA RIVER AUGUST PROJECTION AND TMDL WORKSHEET - WITHOUT REDUCTION: POINT SOURCES

Input to blue shaded areas Permit limitations

Name	Ouachita 7Q10 (cfs)	Projection Flows				Projection Oxygen Demanding Waste Load Allocations			Projection MOS		
		Design Flows (mgd)	MOS (%)	Projection Flows (mgd)	Projection Flows (cfs)	**UCBOD (lb O_2/d)**	**Org-N (lb O_2/d)**	**NH3-N (lb O_2/d)**	**UCBOD (lb O_2/d)**	**Org-N (lb O_2/d)**	**NH3-N (lb O_2/d)**
Ouachita Power intake		5.49	20	6.87	10.62						
Ouachita Power 001&002		1.24	20	1.55	2.40	41.7	23.7	0.9	10.4	5.9	0.2
Entergy Sterlington 001&002		159.00	20	198.75	307.47	5337.4	3030.0	121.2	1334.3	757.5	30.3
Town of Sterlington POTW 001		0.15	20	0.19	0.29	86.3	57.2	28.6	21.6	14.3	7.1
Koch Nitrogen 001		2.49	20	3.11	4.82	222.1	72.1	1565.9	55.5	18.0	391.5
Angus Chemical 002		0.75	20	0.94	1.45	663.2	237.8	8.9	165.8	59.5	2.2
Entergy Monroe 001		116.00	20	145.00	224.32	3893.9	2210.6	88.4	973.5	552.7	22.1
Riverwood Industries 001*	802	29.50	20	18.07	27.96	10423.4	1642.2	826.6	2605.8	410.5	206.7
City of Monroe POTW 001		12.00	20	15.00	23.21	2301.8	306.4	608.3	575.5	76.6	152.1
	CBOD5 (lb O2/d)										
Riverwood 001 permit load	4532										
Riverwood 001 % reduction	0										
Riverwood 001 allocation	4532										
					Total	22969.9	7580.1	3248.8	5742.5	1895.0	812.2

LOWER OUACHITA RIVER AUGUST PROJECTION AND TMDL
WORKSHEET - WITHOUT REDUCTION: TMDL

PARAMETER	WLA (lb/day)	LA (lb/day)	MOS (lb/day)	TMDL (lb/day)
UCBOD	22969.9	139056.8	21193.2	183219.9
ORG-N	7580.1	27779.3	4981.6	40341.0
NH_3-N	3248.8	765.2	897.2	4911.2
SOD	--	5.0	0.6	5.6
TOTAL	33798.8	167606.3	27072.6	228477.7

LOWER OUACHITA RIVER AUGUST PROJECTION AND TMDL WORKSHEET -
REDUCTION TO MEET CRITERIA: BENTHIC SOURCES
Input to blue shaded areas

		Calibration Benthic Source Rates					MOS & Reduction		Projection Input Source Rates		
Reach No.	Reach Length (mi)	NH_3-N (mg/ft^2-d)	Theta for NH3 Decay	Dis P (mg/ft2-d)	SOD (gm/ft2-d)	Theta for SOD Decay	MOS (%)	Reduction (%)	NH_3-N (gm/ft^2-d)	Dis P (mg/ft2-d)	SOD (mg/ft2-d)
1	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
2	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
3	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
4	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
5	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
6	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
7	5.00	0.00	1.070	0.00	0.01	1.065	10	30	0.00	0.00	0.0078
8	5.00	0.00	1.070	0.00	0.01	1.065	10	30	0.00	0.00	0.0078
9	5.00	0.00	1.070	0.00	0.01	1.065	10	30	0.00	0.00	0.0078
10	5.00	0.00	1.070	0.00	0.01	1.065	10	30	0.00	0.00	0.0078
11	5.00	0.00	1.070	0.00	0.01	1.065	10	30	0.00	0.00	0.0078
12	5.00	0.00	1.070	0.00	0.01	1.065	10	30	0.00	0.00	0.0078
13	5.00	0.00	1.070	0.00	0.01	1.065	10	30	0.00	0.00	0.0078
14	5.00	0.00	1.070	0.00	0.01	1.065	10	30	0.00	0.00	0.0078
15	5.00	0.00	1.070	0.00	0.01	1.065	10	30	0.00	0.00	0.0078
16	5.00	0.00	1.070	0.00	0.01	1.065	10	30	0.00	0.00	0.0078
17	3.00	0.00	1.070	0.00	0.01	1.065	10	30	0.00	0.00	0.0078

LOWER OUACHITA RIVER AUGUST PROJECTION AND TMDL
WORKSHEET - REDUCTION TO MEET CRITERIA: BENTHIC
Input to blue shaded areas

Reach No.	Projection Stream Temp (^{o}F)	Projection Stream Width (ft)	**Projection Oxygen Demanding Load Allocation**		**Projection MOS**	
			NH_3-N (lb O_2/d)	**SOD (lb O_2/d)**	**NH_3-N (lb O_2/d)**	**SOD (lb O_2/d)**
1	83.2	404	0.0	0.0	0.0	0.0
2	83.2	405	0.0	0.0	0.0	0.0
3	83.2	400	0.0	0.0	0.0	0.0
4	83.2	445	0.0	0.0	0.0	0.0
5	83.2	464	0.0	0.0	0.0	0.0
6	83.2	507	0.0	0.0	0.0	0.0
7	83.2	549	0.0	0.5	0.0	0.1
8	83.2	591	0.0	0.5	0.0	0.1
9	83.2	556	0.0	0.5	0.0	0.1
10	83.2	523	0.0	0.5	0.0	0.1
11	83.2	490	0.0	0.4	0.0	0.0
12	83.2	468	0.0	0.4	0.0	0.0
13	83.2	445	0.0	0.4	0.0	0.0
14	83.2	497	0.0	0.4	0.0	0.0
15	83.2	548	0.0	0.5	0.0	0.1
16	83.2	601	0.0	0.5	0.0	0.1
17	83.2	647	0.0	0.3	0.0	0.0
		Total	0.0	5.0	0.0	0.6

LOWER OUACHITA RIVER AUGUST PROJECTION AND TMDL WORKSHEET - REDUCTION TO MEET CRITERIA: HEADWATER AND TRIBUTARIES

Input to blue shaded areas

	Calibration Concentrations							MOS & Reduction		Projection Input Concentrations			
Name	Chl-a (ug/l)	UCBOD (mg/l)	Org-N (mg/l)	NH_3-N (mg/l)	NOx-N (mg/l)	Org-P (mg/l)	Dis-P (mg/l)	MOS (%)	Reduction (%)	Chl-a (ug/l)	UCBOD (mg/l)	Org-N (mg/l)	NH_3-N (mg/l)
Ouachita headwater	12.4	5.0	0.66	0.02	0.17	0.04	0.02	0	0				
Bayou Bartholomew	15.7	7.3	0.63	0.02	0.09	0.19	0.03	0	0				
Bayou Chauvin	26.4	20.7	1.69	1.12	0.22	0.37	0.57	0	0				
Chenere Creek	12.0	10.9	0.73	0.02	0.03	0.05	0.01	0	0				
	Projection concentrations w/o MOS or Reduction												
Ouachita headwater	12.4	5.0	0.65	0.03	0.17	0.04	0.02	10	15	11.7	4.7	0.61	0.03
Bayou Bartholomew	15.7	7.3	0.63	0.02	0.22	0.19	0.03	10	0	17.4	8.1	0.70	0.02
Bayou de Loutre	12.0	5.0	0.73	0.02	0.09	0.07	0.01	10	0	13.3	5.6	0.81	0.02
Bayou d'Arbonne	12.0	5.0	0.64	0.02	0.08	0.05	0.01	10	0	13.3	5.6	0.71	0.02
Bayou Chauvin	26.4	20.7	1.69	1.12	0.22	0.37	0.57	10	0	29.3	23.0	1.88	1.24
Chenere Creek	12.0	10.9	0.73	0.02	0.03	0.05	0.01	10	0	13.3	12.1	0.81	0.02

LOWER OUACHITA RIVER AUGUST PROJECTION AND TMDL WORKSHEET - REDUCTION TO MEET CRITERIA: HEADWATER AND TRIBUTARIES

Input to blue shaded areas

Name	Projection Input Concentrations			Projection Critical Flow (cfs)	Projection Oxygen Demanding Load Allocations			Projection MOS		
	NOx-N (mg/l)	Org-P (mg/l)	Dis-P (mg/l)		**UCBOD (lb O_2/d)**	**Org-N (lb O_2/d)**	**NH_3-N (lb O_2/d)**	**UCBOD (lb O_2/d)**	**Org-N (lb O_2/d)**	**NH_3-N (lb O_2/d)**
Ouachita headwater										
Bayou Bartholomew										
Bayou Chauvin										
Chenere Creek										
Ouachita headwater	0.16	0.04	0.02	894.0	20470	12161	561	2274	1351	62.4
Bayou Bartholomew	0.24	0.21	0.03	74.0	2910	1148	36	323	128	4.0
Bayou de Loutre	0.10	0.08	0.01	3.9	105	70	2	12	8	0.2
Bayou d'Arbonne	0.09	0.06	0.01	0.1	3	2	0	0	0	0.0
Bayou Chauvin	0.24	0.41	0.63	2.4	268	100	66	30	11	7.4
Chenere Creek	0.03	0.06	0.01	0.5	29	9	0	3	1	0.0
				Total	23785.51	13489.81	666.1351	2642.835	1498.868	74.01501

LOWER OUACHITA RIVER AUGUST PROJECTION AND TMDL WORKSHEET - REDUCTION TO MEET CRITERIA: INCREMENTAL FLOW

Input to blue shaded areas

	Calibration Flows and Concentrations				Calibration Loads			Projection Flows and Equivalent Concentrations Prior to MOS and Reduction			
REACH	FLOW (cfs/reach)	UCBOD (mg/l)	ORG-N (mg/l)	ORG-P (mg/l)	UCBOD (lb/day)	ORG-N (lb/day)	ORG-P (lb/day)	FLOW (cfs/reach)	UCBOD (mg/l)	ORG-N (mg/l)	ORG-P (mg/l)
1	50.0	0.0	0.00	0.04	0.0	0.0	10.8	3.0	0.0	0.0	0.7
2	50.0	0.0	0.00	0.70	0.0	0.0	188.6	3.0	0.0	0.0	11.7
3	50.0	20.0	0.00	1.40	5387.6	0.0	377.1	3.0	333.3	0.0	23.3
4	50.0	40.0	0.00	0.00	10775.3	0.0	0.0	3.0	666.7	0.0	0.0
5	50.0	45.0	0.00	0.00	12122.2	0.0	0.0	3.0	750.0	0.0	0.0
6	50.0	40.0	1.20	0.00	10775.3	323.3	0.0	3.0	666.7	20.0	0.0
7	50.0	30.0	1.20	0.00	8081.5	323.3	0.0	3.0	500.0	20.0	0.0
8	50.0	30.0	1.20	0.00	8081.5	323.3	0.0	3.0	500.0	20.0	0.0
9	50.0	30.0	1.20	0.20	8081.5	323.3	53.9	3.0	500.0	20.0	3.3
10	50.0	30.0	1.20	0.30	8081.5	323.3	80.8	3.0	500.0	20.0	5.0
11	23.0	55.0	1.20	0.00	6815.4	148.7	0.0	3.0	421.7	9.2	0.0
12	23.0	55.0	1.20	0.00	6815.4	148.7	0.0	3.0	421.7	9.2	0.0
13	23.0	53.0	1.20	0.00	6567.5	148.7	0.0	3.0	406.3	9.2	0.0
14	23.0	48.0	1.20	0.00	5948.0	148.7	0.0	3.0	368.0	9.2	0.0
15	23.0	43.0	1.20	0.00	5328.4	148.7	0.0	3.0	329.7	9.2	0.0
16	23.0	38.0	1.20	0.00	4708.8	148.7	0.0	3.0	291.3	9.2	0.0
17	23.0	33.0	1.20	0.00	4089.2	148.7	0.0	3.0	253.0	9.2	0.0

LOWER OUACHITA RIVER AUGUST PROJECTION AND TMDL WORKSHEET - REDUCTION TO MEET CRITERIA: INCREMENTAL FLOW

Input to blue shaded areas

	MOS & Reduction		Projection Input Concentrations			**Projection Oxygen Demanding Load Allocation**			**Projection MOS**		
REACH	MOS (%)	Reduction (%)	UCBOD (mg/l)	ORG-N (mg/l)	ORG-P (mg/l)	**UCBOD (lb O_2/day)**	**ORG-N (lb O_2/day)**		**UCBOD (lb O_2/day)**	**ORG-N (lb O_2/day)**	
1	10	30	0.0	0.0	0.52	0.0	0.0		0.0	0.0	
2	10	30	0.0	0.0	9.07	0.0	0.0		0.0	0.0	
3	10	30	259.3	0.0	18.15	3771.3	0.0		419.0	0.0	
4	10	30	518.5	0.0	0.00	7542.7	0.0		838.1	0.0	
5	10	30	583.3	0.0	0.00	8485.5	0.0		942.8	0.0	
6	10	30	518.5	15.6	0.00	7542.7	1034.1		838.1	114.9	
7	10	30	388.9	15.6	0.00	5657.0	1034.1		628.6	114.9	
8	10	30	388.9	15.6	0.00	5657.0	1034.1		628.6	114.9	
9	10	30	388.9	15.6	2.59	5657.0	1034.1		628.6	114.9	
10	10	30	388.9	15.6	3.89	5657.0	1034.1		628.6	114.9	
11	10	30	328.0	7.2	0.00	4770.8	475.7		530.1	52.9	
12	10	30	328.0	7.2	0.00	4770.8	475.7		530.1	52.9	
13	10	30	316.0	7.2	0.00	4597.3	475.7		510.8	52.9	
14	10	30	286.2	7.2	0.00	4163.6	475.7		462.6	52.9	
15	10	30	256.4	7.2	0.00	3729.9	475.7		414.4	52.9	
16	10	30	226.6	7.2	0.00	3296.2	475.7		366.2	52.9	
17	10	30	196.8	7.2	0.00	2862.5	475.7		318.1	52.9	
					Total	78161.2	8500.3		8684.6	944.5	

LOWER OUACHITA RIVER AUGUST PROJECTION AND TMDL WORKSHEET - REDUCTION TO MEET CRITERIA: POINT SOURCES

Input to blue shaded areas

Permit limitations

Name	Ouachita 7Q10 (cfs)	Calibration Data (Ouachita River WQ at intake for power plants)							Projection Concentrations							
		Chl-a (ug/l)	UCBOD (mg/l)	Org-N (mg/l)	NH_3-N (mg/l)	NOx-N (mg/l)	Org-P (mg/l)	DIS-P (mg/l)	Chl-a (ug/l)	$CBOD_5$ (mg/l)	UCBOD (mg/l)	Org-N (mg/l)	NH_3-N (mg/l)	NO_3-N (mg/l)	Org-P (mg/l)	Dis-P (mg/l)
Ouachita Power intake																
Ouachita Power 001&002		0	4.9	0.6	0.02	0.2	0.06	0.02	0	1.8	4.0	0.50	0.02	0.15	0.03	0.02
Entergy Sterlington 001&002		0	4.9		0.02	0.2	0.06	0.02	0	1.8	4.0	0.50	0.02	0.15	0.03	0.02
Town of Sterlington POTW 001									100	30.0	69.0	10.00	5.00	0.70	2.50	1.00
Koch Nitrogen 001		0	10.7	0.76	0.4	0.58	0.24	0.15	0	4.7	10.7	0.76	16.50	0.58	0.24	0.15
Angus Chemical 002		0	0.0	8.32	0.31	34.33	0.33	0.01	0	46.1	106.0	8.32	0.31	34.33	0.33	0.01
Entergy Monroe 001		0	5.1	0.57	0.02	0.22	0.06	0.02	0	1.8	4.0	0.50	0.02	0.26	0.07	0.03
Riverwood Industries 001*	802	12.2	86.4	2.98	1.5	0.12	0.69	0.7	12.2	37.6	86.4	2.98	1.50	0.12	0.69	0.70
City of Monroe POTW 001		0	24.3	1.83	0.34	6.36	0.95	0.29	0	10.0	23.0	0.67	1.33	6.36	0.95	0.29
	CBOD5 (lb O2/d)															
Riverwood 001 permit load	4532															
Riverwood 001 % reduction	15															
Riverwood 001 allocation	3852															

* Using the measured UCBOD as typical, the projection discharge flow (including a margin of safety and reduced by the Riverwood 001 % reduction), is calculated from the Ouachita river state line 7Q10 using the formula for the mass discharge limitation (lb/d BOD_5 = 5.95Q-240). The corresponding mass allocation is calculated is the bottom left corner of the chart.

LOWER OUACHITA RIVER AUGUST PROJECTION AND TMDL WORKSHEET - REDUCTION TO MEET CRITERIA: POINT SOURCES

Input to blue shaded areas Permit limitations

Name	Ouachita 7Q10 (cfs)	Projection Flows				Projection Oxygen Demanding Waste Load Allocations			Projection MOS		
		Design Flows (mgd)	MOS (%)	Projection Flows (mgd)	Projection Flows (cfs)	**UCBOD (lb O_2/d)**	**Org-N (lb O_2/d)**	**NH3-N (lb O_2/d)**	**UCBOD (lb O_2/d)**	**Org-N (lb O_2/d)**	**NH3-N (lb O_2/d)**
Ouachita Power intake		5.49	20	6.87	10.62						
Ouachita Power 001&002		1.24	20	1.55	2.40	41.7	23.7	0.9	10.4	5.9	0.2
Entergy Sterlington 001&002		159.00	20	198.75	307.47	5337.4	3030.0	121.2	1334.3	757.5	30.3
Town of Sterlington POTW 001		0.15	20	0.19	0.29	86.3	57.2	28.6	21.6	14.3	7.1
Koch Nitrogen 001		2.49	20	3.11	4.82	222.1	72.1	1565.9	55.5	18.0	391.5
Angus Chemical 002		0.75	20	0.94	1.45	663.2	237.8	8.9	165.8	59.5	2.2
Entergy Monroe 001		116.00	20	145.00	224.32	3893.9	2210.6	88.4	973.5	552.7	22.1
Riverwood Industries 001*	802	29.50	20	15.36	23.77	8859.9	1395.9	702.6	2215.0	349.0	175.7
City of Monroe POTW 001		12.00	20	15.00	23.21	2301.8	306.4	608.3	575.5	76.6	152.1
	CBOD5 (lb O2/d)										
Riverwood 001 permit load	4532										
Riverwood 001 % reduction	15										
Riverwood 001 allocation	3852										
					Total	21406.4	7333.7	3124.8	5351.6	1833.4	781.2

LOWER OUACHITA RIVER AUGUST PROJECTION AND TMDL
WORKSHEET - REDUCTION TO MEET CRITERIA: TMDL

PARAMETER	WLA (lb/day)	LA (lb/day)	MOS (lb/day)	TMDL (lb/day)
UCBOD	21406.4	101946.7	16679.0	140032.1
ORG-N	7333.7	21990.1	4276.8	33600.7
NH_3-N	3124.8	666.1	855.2	4646.2
SOD	--	5.0	0.6	5.6
TOTAL	31865.0	124608.0	21811.6	178284.5

LOWER OUACHITA RIVER SEPTEMBER PROJECTION AND TMDL
WORKSHEET - WITHOUT REDUCTION: BENTHIC SOURCES
Input to blue shaded areas

Reach No.	Reach Length (mi)	Calibration Benthic Source Rates					MOS & Reduction		Projection Input Source Rates		
		NH_3-N (mg/ft^2-d)	Theta for NH3 Decay	Dis P (mg/ft2-d)	SOD (gm/ft2-d)	Theta for SOD Decay	MOS (%)	Reduction (%)	NH_3-N (gm/ft^2-d)	Dis P (mg/ft2-d)	SOD (mg/ft2-d)
1	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
2	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
3	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
4	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
5	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
6	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
7	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
8	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
9	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
10	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
11	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
12	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
13	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
14	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
15	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
16	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
17	3.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111

LOWER OUACHITA RIVER SEPTEMBER PROJECTION AND TMDL
WORKSHEET - WITHOUT REDUCTION: BENTHIC SOURCES
Input to blue shaded areas

Projection Stream Temp (^{o}F)	Projection Stream Width (ft)	**Projection Oxygen Demanding Load Allocation**		**Projection MOS**	
		NH_3-N (lb O_2/d)	**SOD (lb O_2/d)**	**NH_3-N (lb O_2/d)**	**SOD (lb O_2/d)**
83.2	404	0.0	0.0	0.0	0.0
83.2	405	0.0	0.0	0.0	0.0
83.2	400	0.0	0.0	0.0	0.0
83.2	445	0.0	0.0	0.0	0.0
83.2	464	0.0	0.0	0.0	0.0
83.2	507	0.0	0.0	0.0	0.0
83.2	549	0.0	0.5	0.0	0.1
83.2	591	0.0	0.5	0.0	0.1
83.2	556	0.0	0.5	0.0	0.1
83.2	523	0.0	0.5	0.0	0.1
83.2	490	0.0	0.4	0.0	0.0
83.2	468	0.0	0.4	0.0	0.0
83.2	445	0.0	0.4	0.0	0.0
83.2	497	0.0	0.4	0.0	0.0
83.2	548	0.0	0.5	0.0	0.1
83.2	601	0.0	0.5	0.0	0.1
83.2	647	0.0	0.3	0.0	0.0
	Total	0.0	5.0	0.0	0.6

LOWER OUACHITA RIVER SEPTEMBER PROJECTION AND TMDL WORKSHEET - WITHOUT REDUCTION: HEADWATER AND TRIBUTARIES

Input to blue shaded areas

	Calibration Concentrations							MOS & Reduction		Projection Input Concentrations			
Name	Chl-a (ug/l)	UCBOD (mg/l)	Org-N (mg/l)	NH_3-N (mg/l)	NOx-N (mg/l)	Org-P (mg/l)	Dis-P (mg/l)	MOS (%)	Reduction (%)	Chl-a (ug/l)	UCBOD (mg/l)	Org-N (mg/l)	NH_3-N (mg/l)
Ouachita headwater	12.4	5.0	0.66	0.02	0.17	0.04	0.02	0	0				
Bayou Bartholomew	15.7	7.3	0.63	0.02	0.09	0.19	0.03	0	0				
Bayou Chauvin	26.4	20.7	1.69	1.12	0.22	0.37	0.57	0	0				
Chenere Creek	12.0	10.9	0.73	0.02	0.03	0.05	0.01	0	0				
	Projection concentrations w/o MOS or Reduction												
Ouachita headwater	12.4	5.0	0.65	0.03	0.17	0.04	0.02	10	0	13.8	5.6	0.72	0.03
Bayou Bartholomew	15.7	7.3	0.63	0.02	0.22	0.19	0.03	10	0	17.4	8.1	0.70	0.02
Bayou de Loutre	12.0	5.0	0.73	0.02	0.09	0.07	0.01	10	0	13.3	5.6	0.81	0.02
Bayou d'Arbonne	12.0	5.0	0.64	0.02	0.08	0.05	0.01	10	0	13.3	5.6	0.71	0.02
Bayou Chauvin	26.4	20.7	1.69	1.12	0.22	0.37	0.57	10	0	29.3	23.0	1.88	1.24
Chenere Creek	12.0	10.9	0.73	0.02	0.03	0.05	0.01	10	0	13.3	12.1	0.81	0.02

LOWER OUACHITA RIVER SEPTEMBER PROJECTION AND TMDL WORKSHEET - WITHOUT REDUCTION: HEADWATER AND TRIBUTARIES

Input to blue shaded areas

Projection Input Concentrations			Projection Critical Flow (cfs)	Projection Oxygen Demanding Load Allocations			Projection MOS		
NOx-N (mg/l)	Org-P (mg/l)	Dis-P (mg/l)		**UCBOD (lb O_2/d)**	**Org-N (lb O_2/d)**	**NH_3-N (lb O_2/d)**	**UCBOD (lb O_2/d)**	**Org-N (lb O_2/d)**	**NH_3-N (lb O_2/d)**
0.19	0.04	0.02	894.0	24083	14308	660	2676	1590	73.4
0.24	0.21	0.03	74.0	2910	1148	36	323	128	4.0
0.10	0.08	0.01	3.9	105	70	2	12	8	0.2
0.09	0.06	0.01	0.1	3	2	0	0	0	0.0
0.24	0.41	0.63	2.4	268	100	66	30	11	7.4
0.03	0.06	0.01	0.5	29	9	0	3	1	0.0
			Total	27397.93	15635.94	765.1874	3044.214	1737.327	85.02083

LOWER OUACHITA RIVER SEPTEMBER PROJECTION AND TMDL WORKSHEET - WITHOUT REDUCTION: INCREMENTAL FLOW

Input to blue shaded areas

	Calibration Flows and Concentrations				Calibration Loads			Projection Flows and Equivalent Concentrations Prior to MOS and Reduction			
REACH	FLOW (cfs/reach)	UCBOD (mg/l)	ORG-N (mg/l)	ORG-P (mg/l)	UCBOD (lb/day)	ORG-N (lb/day)	ORG-P (lb/day)	FLOW (cfs/reach)	UCBOD (mg/l)	ORG-N (mg/l)	ORG-P (mg/l)
1	50.0	0.0	0.00	0.04	0.0	0.0	10.8	3.0	0.0	0.0	0.7
2	50.0	0.0	0.00	0.70	0.0	0.0	188.6	3.0	0.0	0.0	11.7
3	50.0	20.0	0.00	1.40	5387.6	0.0	377.1	3.0	333.3	0.0	23.3
4	50.0	40.0	0.00	0.00	10775.3	0.0	0.0	3.0	666.7	0.0	0.0
5	50.0	45.0	0.00	0.00	12122.2	0.0	0.0	3.0	750.0	0.0	0.0
6	50.0	40.0	1.20	0.00	10775.3	323.3	0.0	3.0	666.7	20.0	0.0
7	50.0	30.0	1.20	0.00	8081.5	323.3	0.0	3.0	500.0	20.0	0.0
8	50.0	30.0	1.20	0.00	8081.5	323.3	0.0	3.0	500.0	20.0	0.0
9	50.0	30.0	1.20	0.20	8081.5	323.3	53.9	3.0	500.0	20.0	3.3
10	50.0	30.0	1.20	0.30	8081.5	323.3	80.8	3.0	500.0	20.0	5.0
11	23.0	55.0	1.20	0.00	6815.4	148.7	0.0	3.0	421.7	9.2	0.0
12	23.0	55.0	1.20	0.00	6815.4	148.7	0.0	3.0	421.7	9.2	0.0
13	23.0	53.0	1.20	0.00	6567.5	148.7	0.0	3.0	406.3	9.2	0.0
14	23.0	48.0	1.20	0.00	5948.0	148.7	0.0	3.0	368.0	9.2	0.0
15	23.0	43.0	1.20	0.00	5328.4	148.7	0.0	3.0	329.7	9.2	0.0
16	23.0	38.0	1.20	0.00	4708.8	148.7	0.0	3.0	291.3	9.2	0.0
17	23.0	33.0	1.20	0.00	4089.2	148.7	0.0	3.0	253.0	9.2	0.0

LOWER OUACHITA RIVER SEPTEMBER PROJECTION AND TMDL WORKSHEET - WITHOUT REDUCTION: INCREMENTAL FLOW

Input to blue shaded areas

MOS & Reduction		Projection Input Concentrations			**Projection Oxygen Demanding Load Allocation**			**Projection MOS**		
MOS (%)	Reduction (%)	UCBOD (mg/l)	ORG-N (mg/l)	ORG-P (mg/l)	**UCBOD (lb O_2/day)**	**ORG-N (lb O_2/day)**		**UCBOD (lb O_2/day)**	**ORG-N (lb O_2/day)**	
10	0	0.0	0.0	0.74	0.0	0.0		0.0	0.0	
10	0	0.0	0.0	12.96	0.0	0.0		0.0	0.0	
10	0	370.4	0.0	25.93	5387.6	0.0		598.6	0.0	
10	0	740.7	0.0	0.00	10775.3	0.0		1197.3	0.0	
10	0	833.3	0.0	0.00	12122.2	0.0		1346.9	0.0	
10	0	740.7	22.2	0.00	10775.3	1477.3		1197.3	164.1	
10	0	555.6	22.2	0.00	8081.5	1477.3		897.9	164.1	
10	0	555.6	22.2	0.00	8081.5	1477.3		897.9	164.1	
10	0	555.6	22.2	3.70	8081.5	1477.3		897.9	164.1	
10	0	555.6	22.2	5.56	8081.5	1477.3		897.9	164.1	
10	0	468.5	10.2	0.00	6815.4	679.6		757.3	75.5	
10	0	468.5	10.2	0.00	6815.4	679.6		757.3	75.5	
10	0	451.5	10.2	0.00	6567.5	679.6		729.7	75.5	
10	0	408.9	10.2	0.00	5948.0	679.6		660.9	75.5	
10	0	366.3	10.2	0.00	5328.4	679.6		592.0	75.5	
10	0	323.7	10.2	0.00	4708.8	679.6		523.2	75.5	
10	0	281.1	10.2	0.00	4089.2	679.6		454.4	75.5	
				Total	111658.8	12143.3		12406.5	1349.3	

LOWER OUACHITA RIVER SEPTEMBER PROJECTION AND TMDL WORKSHEET - WITHOUT REDUCTION: POINT SOURCES

Input to blue shaded areas | Input to blue shaded areas | Permit limitations

Name	Ouachita 7Q10 (cfs)	Calibration Data (Ouachita River WQ at intake for power plants)							Projection Concentrations							
		Chl-a (ug/l)	UCBOD (mg/l)	Org-N (mg/l)	NH_3-N (mg/l)	NOx-N (mg/l)	Org-P (mg/l)	DIS-P (mg/l)	Chl-a (ug/l)	$CBOD_5$ (mg/l)	UCBOD (mg/l)	Org-N (mg/l)	NH_3-N (mg/l)	NO_3-N (mg/l)	Org-P (mg/l)	Dis-P (mg/l)
Ouachita Power intake																
Ouachita Power 001&002		0	4.9	0.6	0.02	0.2	0.06	0.02	0	1.8	4.0	0.50	0.02	0.15	0.03	0.02
Entergy Sterlington 001&002		0	4.9		0.02	0.2	0.06	0.02	0	1.8	4.0	0.50	0.02	0.15	0.03	0.02
Town of Sterlington POTW 001									100	30.0	69.0	10.00	5.00	0.70	2.50	1.00
Koch Nitrogen 001		0	10.7	0.76	0.4	0.58	0.24	0.15	0	4.7	10.7	0.76	16.50	0.58	0.24	0.15
Angus Chemical 002		0	0.0	8.32	0.31	34.33	0.33	0.01	0	46.1	106.0	8.32	0.31	34.33	0.33	0.01
Entergy Monroe 001		0	5.1	0.57	0.02	0.22	0.06	0.02	0	1.8	4.0	0.50	0.02	0.26	0.07	0.03
Riverwood Industries 001*	829	12.2	86.4	2.98	1.5	0.12	0.69	0.7	12.2	37.6	86.4	2.98	1.50	0.12	0.69	0.70
City of Monroe POTW 001		0	24.3	1.83	0.34	6.36	0.95	0.29	0	10.0	23.0	0.67	1.33	6.36	0.95	0.29

	CBOD5 (lb O2/d)
Riverwood 001 permit load	4693
Riverwood 001 % reduction	0
Riverwood 001 allocation	4693

* Using the measured UCBOD as typical, the projection discharge flow (including a margin of safety and reduced by the Riverwood 001 % reduction), is calculated from the Ouachita river state line 7Q10 using the formula for the mass discharge limitation (lb/d BOD_5 = 5.95Q-240). The corresponding mass allocation is calculated is the bottom left corner of the chart.

LOWER OUACHITA RIVER SEPTEMBER PROJECTION AND TMDL WORKSHEET - WITHOUT REDUCTION: POINT SOURCES

Input to blue shaded areas Permit limitations

Projection Flows				Projection Oxygen Demanding Waste Load Allocations			Projection MOS		
Design Flows (mgd)	MOS (%)	Projection Flows (mgd)	Projection Flows (cfs)	**UCBOD (lb O_2/d)**	**Org-N (lb O_2/d)**	**NH3-N (lb O_2/d)**	**UCBOD (lb O_2/d)**	**Org-N (lb O_2/d)**	**NH3-N (lb O_2/d)**
5.49	20	6.87	10.62						
1.24	20	1.55	2.40	41.7	23.7	0.9	10.4	5.9	0.2
159.00	20	198.75	307.47	5337.4	3030.0	121.2	1334.3	757.5	30.3
0.15	20	0.19	0.29	86.3	57.2	28.6	21.6	14.3	7.1
2.49	20	3.11	4.82	222.1	72.1	1565.9	55.5	18.0	391.5
0.75	20	0.94	1.45	663.2	237.8	8.9	165.8	59.5	2.2
116.00	20	145.00	224.32	3893.9	2210.6	88.4	973.5	552.7	22.1
29.50	20	18.71	28.95	10792.9	1700.4	855.9	2698.2	425.1	214.0
12.00	20	15.00	23.21	2301.8	306.4	608.3	575.5	76.6	152.1
			Total	23339.4	7638.3	3278.1	5834.8	1909.6	819.5

LOWER OUACHITA RIVER SEPTEMBER PROJECTION AND TMDL
WORKSHEET - WITHOUT REDUCTION: TMDL

PARAMETER	WLA (lb/day)	LA (lb/day)	MOS (lb/day)	TMDL (lb/day)
UCBOD	23339.4	139056.8	21285.6	183681.7
ORG-N	7638.3	27779.3	4996.2	40413.7
NH_3-N	3278.1	765.2	904.6	4947.9
SOD	--	5.0	0.6	5.6
TOTAL	34255.8	167606.3	27186.9	229048.9

LOWER OUACHITA RIVER SEPTEMBER PROJECTION AND TMDL
WORKSHEET - REDUCTION TO MEET CRITERIA: BENTHIC SOURCES
Input to blue shaded areas

Reach No.	Reach Length (mi)	Calibration Benthic Source Rates					MOS & Reduction		Projection Input Source Rates		
		NH_3-N (mg/ft^2-d)	Theta for NH3 Decay	Dis P (mg/ft2-d)	SOD (gm/ft2-d)	Theta for SOD Decay	MOS (%)	Reduction (%)	NH_3-N (gm/ft^2-d)	Dis P (mg/ft2-d)	SOD (mg/ft2-d)
1	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
2	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
3	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
4	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
5	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
6	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
7	5.00	0.00	1.070	0.00	0.01	1.065	10	30	0.00	0.00	0.0078
8	5.00	0.00	1.070	0.00	0.01	1.065	10	30	0.00	0.00	0.0078
9	5.00	0.00	1.070	0.00	0.01	1.065	10	30	0.00	0.00	0.0078
10	5.00	0.00	1.070	0.00	0.01	1.065	10	30	0.00	0.00	0.0078
11	5.00	0.00	1.070	0.00	0.01	1.065	10	30	0.00	0.00	0.0078
12	5.00	0.00	1.070	0.00	0.01	1.065	10	30	0.00	0.00	0.0078
13	5.00	0.00	1.070	0.00	0.01	1.065	10	30	0.00	0.00	0.0078
14	5.00	0.00	1.070	0.00	0.01	1.065	10	30	0.00	0.00	0.0078
15	5.00	0.00	1.070	0.00	0.01	1.065	10	30	0.00	0.00	0.0078
16	5.00	0.00	1.070	0.00	0.01	1.065	10	30	0.00	0.00	0.0078
17	3.00	0.00	1.070	0.00	0.01	1.065	10	30	0.00	0.00	0.0078

LOWER OUACHITA RIVER SEPTEMBER PROJECTION AND TMDL
WORKSHEET - REDUCTION TO MEET CRITERIA: BENTHIC
Input to blue shaded areas

Projection Stream Temp (^{o}F)	Projection Stream Width (ft)	**Projection Oxygen Demanding Load Allocation**		**Projection MOS**	
		NH_3-N (lb O_2/d)	**SOD (lb O_2/d)**	**NH_3-N (lb O_2/d)**	**SOD (lb O_2/d)**
83.2	404	0.0	0.0	0.0	0.0
83.2	405	0.0	0.0	0.0	0.0
83.2	400	0.0	0.0	0.0	0.0
83.2	445	0.0	0.0	0.0	0.0
83.2	464	0.0	0.0	0.0	0.0
83.2	507	0.0	0.0	0.0	0.0
83.2	549	0.0	0.5	0.0	0.1
83.2	591	0.0	0.5	0.0	0.1
83.2	556	0.0	0.5	0.0	0.1
83.2	523	0.0	0.5	0.0	0.1
83.2	490	0.0	0.4	0.0	0.0
83.2	468	0.0	0.4	0.0	0.0
83.2	445	0.0	0.4	0.0	0.0
83.2	497	0.0	0.4	0.0	0.0
83.2	548	0.0	0.5	0.0	0.1
83.2	601	0.0	0.5	0.0	0.1
83.2	647	0.0	0.3	0.0	0.0
	Total	0.0	5.0	0.0	0.6

LOWER OUACHITA RIVER SEPTEMBER PROJECTION AND TMDL WORKSHEET - REDUCTION TO MEET CRITERIA: HEADWATER AND TRIBUTARIES

Input to blue shaded areas

	Calibration Concentrations							MOS & Reduction		Projection Input Concentrations			
Name	Chl-a (ug/l)	UCBOD (mg/l)	Org-N (mg/l)	NH_3-N (mg/l)	NOx-N (mg/l)	Org-P (mg/l)	Dis-P (mg/l)	MOS (%)	Reduction (%)	Chl-a (ug/l)	UCBOD (mg/l)	Org-N (mg/l)	NH_3-N (mg/l)
Ouachita headwater	12.4	5.0	0.66	0.02	0.17	0.04	0.02	0	0				
Bayou Bartholomew	15.7	7.3	0.63	0.02	0.09	0.19	0.03	0	0				
Bayou Chauvin	26.4	20.7	1.69	1.12	0.22	0.37	0.57	0	0				
Chenere Creek	12.0	10.9	0.73	0.02	0.03	0.05	0.01	0	0				
	Projection concentrations w/o MOS or Reduction												
Ouachita headwater	12.4	5.0	0.65	0.03	0.17	0.04	0.02	10	15	11.7	4.7	0.61	0.03
Bayou Bartholomew	15.7	7.3	0.63	0.02	0.22	0.19	0.03	10	0	17.4	8.1	0.70	0.02
Bayou de Loutre	12.0	5.0	0.73	0.02	0.09	0.07	0.01	10	0	13.3	5.6	0.81	0.02
Bayou d'Arbonne	12.0	5.0	0.64	0.02	0.08	0.05	0.01	10	0	13.3	5.6	0.71	0.02
Bayou Chauvin	26.4	20.7	1.69	1.12	0.22	0.37	0.57	10	0	29.3	23.0	1.88	1.24
Chenere Creek	12.0	10.9	0.73	0.02	0.03	0.05	0.01	10	0	13.3	12.1	0.81	0.02

LOWER OUACHITA RIVER SEPTEMBER PROJECTION AND TMDL WORKSHEET - REDUCTION TO MEET CRITERIA: HEADWATER AND TRIBUTARIES

Input to blue shaded areas

Projection Input Concentrations			Projection Critical Flow (cfs)	Projection Oxygen Demanding Load Allocations			Projection MOS		
NOx-N (mg/l)	Org-P (mg/l)	Dis-P (mg/l)		**UCBOD (lb O_2/d)**	**Org-N (lb O_2/d)**	**NH_3-N (lb O_2/d)**	**UCBOD (lb O_2/d)**	**Org-N (lb O_2/d)**	**NH_3-N (lb O_2/d)**
0.16	0.04	0.02	894.0	20470	12161	561	2274	1351	62.4
0.24	0.21	0.03	74.0	2910	1148	36	323	128	4.0
0.10	0.08	0.01	3.9	105	70	2	12	8	0.2
0.09	0.06	0.01	0.1	3	2	0	0	0	0.0
0.24	0.41	0.63	2.4	268	100	66	30	11	7.4
0.03	0.06	0.01	0.5	29	9	0	3	1	0.0
			Total	23785.51	13489.81	666.1351	2642.835	1498.868	74.01501

LOWER OUACHITA RIVER SEPTEMBER PROJECTION AND TMDL WORKSHEET - REDUCTION TO MEET CRITERIA: INCREMENTAL FLOW

Input to blue shaded areas

	Calibration Flows and Concentrations				Calibration Loads			Projection Flows and Equivalent Concentrations Prior to MOS and Reduction			
REACH	FLOW (cfs/reach)	UCBOD (mg/l)	ORG-N (mg/l)	ORG-P (mg/l)	UCBOD (lb/day)	ORG-N (lb/day)	ORG-P (lb/day)	FLOW (cfs/reach)	UCBOD (mg/l)	ORG-N (mg/l)	ORG-P (mg/l)
1	50.0	0.0	0.00	0.04	0.0	0.0	10.8	3.0	0.0	0.0	0.7
2	50.0	0.0	0.00	0.70	0.0	0.0	188.6	3.0	0.0	0.0	11.7
3	50.0	20.0	0.00	1.40	5387.6	0.0	377.1	3.0	333.3	0.0	23.3
4	50.0	40.0	0.00	0.00	10775.3	0.0	0.0	3.0	666.7	0.0	0.0
5	50.0	45.0	0.00	0.00	12122.2	0.0	0.0	3.0	750.0	0.0	0.0
6	50.0	40.0	1.20	0.00	10775.3	323.3	0.0	3.0	666.7	20.0	0.0
7	50.0	30.0	1.20	0.00	8081.5	323.3	0.0	3.0	500.0	20.0	0.0
8	50.0	30.0	1.20	0.00	8081.5	323.3	0.0	3.0	500.0	20.0	0.0
9	50.0	30.0	1.20	0.20	8081.5	323.3	53.9	3.0	500.0	20.0	3.3
10	50.0	30.0	1.20	0.30	8081.5	323.3	80.8	3.0	500.0	20.0	5.0
11	23.0	55.0	1.20	0.00	6815.4	148.7	0.0	3.0	421.7	9.2	0.0
12	23.0	55.0	1.20	0.00	6815.4	148.7	0.0	3.0	421.7	9.2	0.0
13	23.0	53.0	1.20	0.00	6567.5	148.7	0.0	3.0	406.3	9.2	0.0
14	23.0	48.0	1.20	0.00	5948.0	148.7	0.0	3.0	368.0	9.2	0.0
15	23.0	43.0	1.20	0.00	5328.4	148.7	0.0	3.0	329.7	9.2	0.0
16	23.0	38.0	1.20	0.00	4708.8	148.7	0.0	3.0	291.3	9.2	0.0
17	23.0	33.0	1.20	0.00	4089.2	148.7	0.0	3.0	253.0	9.2	0.0

LOWER OUACHITA RIVER SEPTEMBER PROJECTION AND TMDL WORKSHEET - REDUCTION TO MEET CRITERIA: INCREMENTAL FLOW

Input to blue shaded areas

MOS & Reduction		Projection Input Concentrations			**Projection Oxygen Demanding Load Allocation**			**Projection MOS**		
MOS (%)	Reduction (%)	UCBOD (mg/l)	ORG-N (mg/l)	ORG-P (mg/l)	**UCBOD (lb O_2/day)**	**ORG-N (lb O_2/day)**		**UCBOD (lb O_2/day)**	**ORG-N (lb O_2/day)**	
10	30	0.0	0.0	0.52	0.0	0.0		0.0	0.0	
10	30	0.0	0.0	9.07	0.0	0.0		0.0	0.0	
10	30	259.3	0.0	18.15	3771.3	0.0		419.0	0.0	
10	30	518.5	0.0	0.00	7542.7	0.0		838.1	0.0	
10	30	583.3	0.0	0.00	8485.5	0.0		942.8	0.0	
10	30	518.5	15.6	0.00	7542.7	1034.1		838.1	114.9	
10	30	388.9	15.6	0.00	5657.0	1034.1		628.6	114.9	
10	30	388.9	15.6	0.00	5657.0	1034.1		628.6	114.9	
10	30	388.9	15.6	2.59	5657.0	1034.1		628.6	114.9	
10	30	388.9	15.6	3.89	5657.0	1034.1		628.6	114.9	
10	30	328.0	7.2	0.00	4770.8	475.7		530.1	52.9	
10	30	328.0	7.2	0.00	4770.8	475.7		530.1	52.9	
10	30	316.0	7.2	0.00	4597.3	475.7		510.8	52.9	
10	30	286.2	7.2	0.00	4163.6	475.7		462.6	52.9	
10	30	256.4	7.2	0.00	3729.9	475.7		414.4	52.9	
10	30	226.6	7.2	0.00	3296.2	475.7		366.2	52.9	
10	30	196.8	7.2	0.00	2862.5	475.7		318.1	52.9	
				Total	78161.2	8500.3		8684.6	944.5	

LOWER OUACHITA RIVER SEPTEMBER PROJECTION AND TMDL WORKSHEET - REDUCTION TO MEET CRITERIA: POINT SOURCES

Input to blue shaded areas | Input to blue shaded areas | Permit limitations

Name	Ouachita 7Q10 (cfs)	Calibration Data (Ouachita River WQ at intake for power plants)							Projection Concentrations							
		Chl-a (ug/l)	UCBOD (mg/l)	Org-N (mg/l)	NH_3-N (mg/l)	NOx-N (mg/l)	Org-P (mg/l)	DIS-P (mg/l)	Chl-a (ug/l)	$CBOD_5$ (mg/l)	UCBOD (mg/l)	Org-N (mg/l)	NH_3-N (mg/l)	NO_3-N (mg/l)	Org-P (mg/l)	Dis-P (mg/l)
Ouachita Power intake																
Ouachita Power 001&002		0	4.9	0.6	0.02	0.2	0.06	0.02	0	1.8	4.0	0.50	0.02	0.15	0.03	0.02
Entergy Sterlington 001&002		0	4.9		0.02	0.2	0.06	0.02	0	1.8	4.0	0.50	0.02	0.15	0.03	0.02
Town of Sterlington POTW 001									100	30.0	69.0	10.00	5.00	0.70	2.50	1.00
Koch Nitrogen 001		0	10.7	0.76	0.4	0.58	0.24	0.15	0	4.7	10.7	0.76	16.50	0.58	0.24	0.15
Angus Chemical 002		0	0.0	8.32	0.31	34.33	0.33	0.01	0	46.1	106.0	8.32	0.31	34.33	0.33	0.01
Entergy Monroe 001		0	5.1	0.57	0.02	0.22	0.06	0.02	0	1.8	4.0	0.50	0.02	0.26	0.07	0.03
Riverwood Industries 001*	829	12.2	86.4	2.98	1.5	0.12	0.69	0.7	12.2	37.6	86.4	2.98	1.50	0.12	0.69	0.70
City of Monroe POTW 001		0	24.3	1.83	0.34	6.36	0.95	0.29	0	10.0	23.0	0.67	1.33	6.36	0.95	0.29
	CBOD5 (lb O2/d)															
Riverwood 001 permit load	4693															
Riverwood 001 % reduction	15															
Riverwood 001 allocation	3989															

* Using the measured UCBOD as typical, the projection discharge flow (including a margin of safety and reduced by the Riverwood 001 % reduction), is calculated from the Ouachita river state line 7Q10 using the formula for the mass discharge limitation (lb/d BOD_5 = 5.95Q-240). The corresponding mass allocation is calculated is the bottom left corner of the chart.

LOWER OUACHITA RIVER SEPTEMBER PROJECTION AND TMDL WORKSHEET - REDUCTION TO MEET CRITERIA: POINT SOURCES

Input to blue shaded areas Permit limitations

Projection Flows				Projection Oxygen Demanding Waste Load Allocations			Projection MOS		
Design Flows (mgd)	MOS (%)	Projection Flows (mgd)	Projection Flows (cfs)	**UCBOD (lb O_2/d)**	**Org-N (lb O_2/d)**	**NH3-N (lb O_2/d)**	**UCBOD (lb O_2/d)**	**Org-N (lb O_2/d)**	**NH3-N (lb O_2/d)**
5.49	20	6.87	10.62						
1.24	20	1.55	2.40	41.7	23.7	0.9	10.4	5.9	0.2
159.00	20	198.75	307.47	5337.4	3030.0	121.2	1334.3	757.5	30.3
0.15	20	0.19	0.29	86.3	57.2	28.6	21.6	14.3	7.1
2.49	20	3.11	4.82	222.1	72.1	1565.9	55.5	18.0	391.5
0.75	20	0.94	1.45	663.2	237.8	8.9	165.8	59.5	2.2
116.00	20	145.00	224.32	3893.9	2210.6	88.4	973.5	552.7	22.1
29.50	20	15.91	24.61	9173.9	1445.4	727.5	2293.5	361.3	181.9
12.00	20	15.00	23.21	2301.8	306.4	608.3	575.5	76.6	152.1
			Total	21720.4	7383.2	3149.7	5430.1	1845.8	787.4

LOWER OUACHITA RIVER SEPTEMBER PROJECTION AND TMDL
WORKSHEET - REDUCTION TO MEET CRITERIA: TMDL

PARAMETER	WLA (lb/day)	LA (lb/day)	MOS (lb/day)	TMDL (lb/day)
UCBOD	21720.4	101946.7	16757.5	140424.7
ORG-N	7383.2	21990.1	4289.2	33662.5
NH_3-N	3149.7	666.1	861.5	4677.3
SOD	--	5.0	0.6	5.6
TOTAL	32253.4	124608.0	21908.7	178770.1

LOWER OUACHITA RIVER NOVEMBER PROJECTION AND TMDL
WORKSHEET - WITHOUT REDUCTION: BENTHIC SOURCES
Input to blue shaded areas

Reach No.	Reach Length (mi)	Calibration Benthic Source Rates					MOS & Reduction		Projection Input Source Rates		
		NH_3-N (mg/ft^2-d)	Theta for NH3 Decay	Dis P (mg/ft2-d)	SOD (gm/ft2-d)	Theta for SOD Decay	MOS (%)	Reduction (%)	NH_3-N (gm/ft^2-d)	Dis P (mg/ft2-d)	SOD (mg/ft2-d)
1	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
2	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
3	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
4	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
5	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
6	5.00	0.00	1.070	0.00	0.00	1.065	10	0	0.00	0.00	0.0000
7	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
8	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
9	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
10	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
11	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
12	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
13	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
14	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
15	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
16	5.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111
17	3.00	0.00	1.070	0.00	0.01	1.065	10	0	0.00	0.00	0.0111

LOWER OUACHITA RIVER NOVEMBER PROJECTION AND TMDL
WORKSHEET - WITHOUT REDUCTION: BENTHIC SOURCES
Input to blue shaded areas

Projection Stream Temp (^{o}F)	Projection Stream Width (ft)	**Projection Oxygen Demanding Load Allocation**		**Projection MOS**	
		NH_3-N (lb O_2/d)	**SOD (lb O_2/d)**	**NH_3-N (lb O_2/d)**	**SOD (lb O_2/d)**
83.2	404	0.0	0.0	0.0	0.0
83.2	405	0.0	0.0	0.0	0.0
83.2	400	0.0	0.0	0.0	0.0
83.2	445	0.0	0.0	0.0	0.0
83.2	464	0.0	0.0	0.0	0.0
83.2	507	0.0	0.0	0.0	0.0
83.2	549	0.0	0.5	0.0	0.1
83.2	591	0.0	0.5	0.0	0.1
83.2	556	0.0	0.5	0.0	0.1
83.2	523	0.0	0.5	0.0	0.1
83.2	490	0.0	0.4	0.0	0.0
83.2	468	0.0	0.4	0.0	0.0
83.2	445	0.0	0.4	0.0	0.0
83.2	497	0.0	0.4	0.0	0.0
83.2	548	0.0	0.5	0.0	0.1
83.2	601	0.0	0.5	0.0	0.1
83.2	647	0.0	0.3	0.0	0.0
	Total	0.0	5.0	0.0	0.6

LOWER OUACHITA RIVER NOVEMBER PROJECTION AND TMDL WORKSHEET - WITHOUT REDUCTION: HEADWATER AND TRIBUTARIES

Input to blue shaded areas

Projection Input Concentrations			Projection Critical Flow (cfs)	Projection Oxygen Demanding Load Allocations			Projection MOS		
NOx-N (mg/l)	Org-P (mg/l)	Dis-P (mg/l)		**UCBOD (lb O_2/d)**	**Org-N (lb O_2/d)**	**NH_3-N (lb O_2/d)**	**UCBOD (lb O_2/d)**	**Org-N (lb O_2/d)**	**NH_3-N (lb O_2/d)**
0.19	0.04	0.02	894.0	24083	14308	660	2676	1590	73.4
0.24	0.21	0.03	74.0	2910	1148	36	323	128	4.0
0.10	0.08	0.01	3.9	105	70	2	12	8	0.2
0.09	0.06	0.01	0.1	3	2	0	0	0	0.0
0.24	0.41	0.63	2.4	268	100	66	30	11	7.4
0.03	0.06	0.01	0.5	29	9	0	3	1	0.0
			Total	27397.93	15635.94	765.1874	3044.214	1737.327	85.02083

LOWER OUACHITA RIVER NOVEMBER PROJECTION AND TMDL WORKSHEET - WITHOUT REDUCTION: INCREMENTAL FLOW

Input to blue shaded areas

	Calibration Flows and Concentrations				Calibration Loads			Projection Flows and Equivalent Concentrations Prior to MOS and Reduction			
REACH	FLOW (cfs/reach)	UCBOD (mg/l)	ORG-N (mg/l)	ORG-P (mg/l)	UCBOD (lb/day)	ORG-N (lb/day)	ORG-P (lb/day)	FLOW (cfs/reach)	UCBOD (mg/l)	ORG-N (mg/l)	ORG-P (mg/l)
1	50.0	0.0	0.00	0.04	0.0	0.0	10.8	3.0	0.0	0.0	0.7
2	50.0	0.0	0.00	0.70	0.0	0.0	188.6	3.0	0.0	0.0	11.7
3	50.0	20.0	0.00	1.40	5387.6	0.0	377.1	3.0	333.3	0.0	23.3
4	50.0	40.0	0.00	0.00	10775.3	0.0	0.0	3.0	666.7	0.0	0.0
5	50.0	45.0	0.00	0.00	12122.2	0.0	0.0	3.0	750.0	0.0	0.0
6	50.0	40.0	1.20	0.00	10775.3	323.3	0.0	3.0	666.7	20.0	0.0
7	50.0	30.0	1.20	0.00	8081.5	323.3	0.0	3.0	500.0	20.0	0.0
8	50.0	30.0	1.20	0.00	8081.5	323.3	0.0	3.0	500.0	20.0	0.0
9	50.0	30.0	1.20	0.20	8081.5	323.3	53.9	3.0	500.0	20.0	3.3
10	50.0	30.0	1.20	0.30	8081.5	323.3	80.8	3.0	500.0	20.0	5.0
11	23.0	55.0	1.20	0.00	6815.4	148.7	0.0	3.0	421.7	9.2	0.0
12	23.0	55.0	1.20	0.00	6815.4	148.7	0.0	3.0	421.7	9.2	0.0
13	23.0	53.0	1.20	0.00	6567.5	148.7	0.0	3.0	406.3	9.2	0.0
14	23.0	48.0	1.20	0.00	5948.0	148.7	0.0	3.0	368.0	9.2	0.0
15	23.0	43.0	1.20	0.00	5328.4	148.7	0.0	3.0	329.7	9.2	0.0
16	23.0	38.0	1.20	0.00	4708.8	148.7	0.0	3.0	291.3	9.2	0.0
17	23.0	33.0	1.20	0.00	4089.2	148.7	0.0	3.0	253.0	9.2	0.0

LOWER OUACHITA RIVER NOVEMBER PROJECTION AND TMDL WORKSHEET - WITHOUT REDUCTION: INCREMENTAL FLOW

Input to blue shaded areas

MOS & Reduction		Projection Input Concentrations			**Projection Oxygen Demanding Load Allocation**			**Projection MOS**		
MOS (%)	Reduction (%)	UCBOD (mg/l)	ORG-N (mg/l)	ORG-P (mg/l)	**UCBOD (lb O_2/day)**	**ORG-N (lb O_2/day)**		**UCBOD (lb O_2/day)**	**ORG-N (lb O_2/day)**	
10	0	0.0	0.0	0.74	0.0	0.0		0.0	0.0	
10	0	0.0	0.0	12.96	0.0	0.0		0.0	0.0	
10	0	370.4	0.0	25.93	5387.6	0.0		598.6	0.0	
10	0	740.7	0.0	0.00	10775.3	0.0		1197.3	0.0	
10	0	833.3	0.0	0.00	12122.2	0.0		1346.9	0.0	
10	0	740.7	22.2	0.00	10775.3	1477.3		1197.3	164.1	
10	0	555.6	22.2	0.00	8081.5	1477.3		897.9	164.1	
10	0	555.6	22.2	0.00	8081.5	1477.3		897.9	164.1	
10	0	555.6	22.2	3.70	8081.5	1477.3		897.9	164.1	
10	0	555.6	22.2	5.56	8081.5	1477.3		897.9	164.1	
10	0	468.5	10.2	0.00	6815.4	679.6		757.3	75.5	
10	0	468.5	10.2	0.00	6815.4	679.6		757.3	75.5	
10	0	451.5	10.2	0.00	6567.5	679.6		729.7	75.5	
10	0	408.9	10.2	0.00	5948.0	679.6		660.9	75.5	
10	0	366.3	10.2	0.00	5328.4	679.6		592.0	75.5	
10	0	323.7	10.2	0.00	4708.8	679.6		523.2	75.5	
10	0	281.1	10.2	0.00	4089.2	679.6		454.4	75.5	
				Total	111658.8	12143.3		12406.5	1349.3	

LOWER OUACHITA RIVER NOVEMBER PROJECTION AND TMDL WORKSHEET - WITHOUT REDUCTION: POINT SOURCES

Input to blue shaded areas | Input to blue shaded areas | Permit limitations

Name	Ouachita 7Q10 (cfs)	Calibration Data (Ouachita River WQ at intake for power plants)							Projection Concentrations							
		Chl-a (ug/l)	UCBOD (mg/l)	Org-N (mg/l)	NH_3-N (mg/l)	NOx-N (mg/l)	Org-P (mg/l)	DIS-P (mg/l)	Chl-a (ug/l)	$CBOD_5$ (mg/l)	UCBOD (mg/l)	Org-N (mg/l)	NH_3-N (mg/l)	NO_3-N (mg/l)	Org-P (mg/l)	Dis-P (mg/l)
Ouachita Power intake																
Ouachita Power 001&002		0	4.9	0.6	0.02	0.2	0.06	0.02	0	1.8	4.0	0.50	0.02	0.15	0.03	0.02
Entergy Sterlington 001&002		0	4.9		0.02	0.2	0.06	0.02	0	1.8	4.0	0.50	0.02	0.15	0.03	0.02
Town of Sterlington POTW 001									100	30.0	69.0	10.00	5.00	0.70	2.50	1.00
Koch Nitrogen 001		0	10.7	0.76	0.4	0.58	0.24	0.15	0	4.7	10.7	0.76	16.50	0.58	0.24	0.15
Angus Chemical 002		0	0.0	8.32	0.31	34.33	0.33	0.01	0	46.1	106.0	8.32	0.31	34.33	0.33	0.01
Entergy Monroe 001		0	5.1	0.57	0.02	0.22	0.06	0.02	0	1.8	4.0	0.50	0.02	0.26	0.07	0.03
Riverwood Industries 001*	1231	12.2	86.4	2.98	1.5	0.12	0.69	0.7	12.2	37.6	86.4	2.98	1.50	0.12	0.69	0.70
City of Monroe POTW 001		0	24.3	1.83	0.34	6.36	0.95	0.29	0	10.0	23.0	0.67	1.33	6.36	0.95	0.29
	CBOD5 (lb O2/d)															
Riverwood 001 permit load	7084															
Riverwood 001 % reduction	0															
Riverwood 001 allocation	7084															

* Using the measured UCBOD as typical, the projection discharge flow (including a margin of safety and reduced by the Riverwood 001 % reduction), is calculated from the Ouachita river state line 7Q10 using the formula for the mass discharge limitation (lb/d BOD_5 = 5.95Q-240). The corresponding mass allocation is calculated is the bottom left corner of the chart.

LOWER OUACHITA RIVER NOVEMBER PROJECTION AND TMDL WORKSHEET - WITHOUT REDUCTION: POINT SOURCES

Input to blue shaded areas Permit limitations

Projection Flows				Projection Oxygen Demanding Waste Load Allocations			Projection MOS		
Design Flows (mgd)	MOS (%)	Projection Flows (mgd)	Projection Flows (cfs)	**UCBOD (lb O_2/d)**	**Org-N (lb O_2/d)**	**NH3-N (lb O_2/d)**	**UCBOD (lb O_2/d)**	**Org-N (lb O_2/d)**	**NH3-N (lb O_2/d)**
5.49	20	6.87	10.62						
1.24	20	1.55	2.40	41.7	23.7	0.9	10.4	5.9	0.2
159.00	20	198.75	307.47	5337.4	3030.0	121.2	1334.3	757.5	30.3
0.15	20	0.19	0.29	86.3	57.2	28.6	21.6	14.3	7.1
2.49	20	3.11	4.82	222.1	72.1	1565.9	55.5	18.0	391.5
0.75	20	0.94	1.45	663.2	237.8	8.9	165.8	59.5	2.2
116.00	20	145.00	224.32	3893.9	2210.6	88.4	973.5	552.7	22.1
29.50	20	28.25	43.71	16294.2	2567.2	1292.2	4073.6	641.8	323.0
12.00	20	15.00	23.21	2301.8	306.4	608.3	575.5	76.6	152.1
			Total	28840.7	8505.0	3714.4	7210.2	2126.3	928.6

LOWER OUACHITA RIVER NOVEMBER PROJECTION AND TMDL
WORKSHEET - WITHOUT REDUCTION: TMDL

PARAMETER	WLA (lb/day)	LA (lb/day)	MOS (lb/day)	TMDL (lb/day)
UCBOD	28840.7	139056.8	22660.9	190558.4
ORG-N	8505.0	27779.3	5212.8	41497.1
NH_3-N	3714.4	765.2	1013.6	5493.2
SOD	--	5.0	0.6	5.6
TOTAL	41060.2	167606.3	28888.0	237554.4

APPENDIX J - INPUT LISTING FOR RUNS NOT PRINTED IN FULL

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                                    * * * QUAL-2E  STREAM QUALITY ROUTING MODEL * * *
                                                 Version 3.21  -  Feb. 1995

 $$$ (PROBLEM TITLES) $$$

CARD TYPE                              QUAL-2E PROGRAM TITLES
TITLE01              LOWER OUACHITA RIVER MAY PROJECTION - STEADY STATE WQ RUN
TITLE02              WITHOUT LOAD REDUCTION
TITLE03  NO          CONSERVATIVE MINERAL I
TITLE04  NO          CONSERVATIVE MINERAL II
TITLE05  NO          CONSERVATIVE MINERAL III
TITLE06  YES         TEMPERATURE
TITLE07  YES         BIOCHEMICAL OXYGEN DEMAND
TITLE08  YES         ALGAE AS CHL-A IN UG/L
TITLE09  YES         PHOSPHORUS CYCLE AS P IN MG/L
TITLE10                (ORGANIC-P; DISSOLVED-P)
TITLE11  YES         NITROGEN CYCLE AS N IN MG/L
TITLE12                (ORGANIC-N; AMMONIA-N; NITRITE-N;' NITRATE-N)
TITLE13  YES         DISSOLVED OXYGEN IN MG/L
TITLE14  NO          FECAL COLIFORM IN NO./100 ML
TITLE15  NO          ARBITRARY NON-CONSERVATIVE
ENDTITLE

 $$$ DATA TYPE 1 (CONTROL DATA) $$$

CARD TYPE                                      CARD TYPE
LIST DATA INPUT             0.00000                                      0.00000
WRITE OPTIONAL SUMMARY      0.00000                                      0.00000
NO FLOW AUGMENTATION        0.00000                                      0.00000
STEADY STATE                0.00000                                      0.00000
NO TRAP CHANNELS            0.00000                                      0.00000
NO PRINT LCD/SOLAR DATA     0.00000                                      0.00000
NO PLOT DO AND BOD DATA     0.00000                                      0.00000
FIXED DNSTM CONC (YES=1)=   0.00000          5D-ULT BOD CONV K COEF  =   0.23000
INPUT METRIC            =   0.00000          OUTPUT METRIC           =   0.00000
NUMBER OF REACHES       =  17.00000          NUMBER OF JUNCTIONS     =   0.00000
NUM OF HEADWATERS       =   1.00000          NUMBER OF POINT LOADS   =  17.00000
TIME STEP (HOURS)       =   1.00000          LNTH. COMP. ELEMENT (DX)=   0.25000
MAXIMUM ROUTE TIME (HRS)= 450.00000          TIME INC. FOR RPT2 (HRS)=   3.00000
LATITUDE OF BASIN (DEG) =  32.50000          LONGITUDE OF BASIN (DEG)=  92.00000
STANDARD MARIDIAN (DEG) =  90.00000          DAY OF YEAR START TIME  = 136.00000
EVAP. COEF.,(AE)        =   0.00238          EVAP. COEF.,(BE)        =   0.00027
ELEV. OF BASIN (ELEV)   =  54.00000          DUST ATTENUATION COEF.  =   0.13000
ENDATA1                     0.00000                                      0.00000

 $$$ DATA TYPE 1A (ALGAE PRODUCTION AND NITROGEN OXIDATION CONSTANTS) $$$

CARD TYPE                                            CARD TYPE
O UPTAKE BY NH3 OXID(MG O/MG N)=    3.4300           O UPTAKE BY NO2 OXID(MG O/MG N)=    1.1400
O PROD  BY ALGAE (MG O/MG A)   =    1.8000           O UPTAKE BY ALGAE (MG O/MG A)  =    2.3000
N CONTENT OF ALGAE (MG N/MG A) =    0.0900           P CONTENT OF ALGAE (MG O/MG A) =    0.0150
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ALG MAX SPEC GROWTH RATE(1/DAY)=    2.1000          ALGAE RESPIRATION RATE (1/DAY) =    0.0500
N HALF SATURATION CONST (MG/L) =    0.2000          P HALF SATURATION CONST (MG/L) =    0.0400
LIN ALG SHADE CO (1/FT-UGCHA/L=)    0.0027          NLIN SHADE(1/FT-(UGCHA/L)**2/3)=    0.0165
LIGHT FUNCTION OPTION (LFNOPT) =    1.0000          LIGHT SAT'N COEF (BTU/FT2-MIN) =    0.0660
DAILY AVERAGING OPTION (LAVOPT)=    3.0000          LIGHT AVERAGING FACTOR (AFACT) =    0.9200
NUMBER OF DAYLIGHT HOURS (DLH) =   14.0000          TOTAL DAILY SOLR RAD (BTU/FT-2)= 1300.0000
ALGY GROWTH CALC OPTION(LGROPT)=    1.0000          ALGAL PREF FOR NH3-N (PREFN)   =    0.5000
ALG/TEMP SOLR RAD FACTOR(TFACT)=    0.4400          NITRIFICATION INHIBITION COEF  =    0.6000
ENDATA1A                            0.0000                                              0.0000

 $$$ DATA TYPE 1B (TEMPERATURE CORRECTION CONSTANTS FOR RATE COEFFICIENTS) $$$

CARD TYPE     RATE CODE     THETA VALUE

THETA( 1)      BOD DECA        1.047     USER
THETA( 2)      BOD SETT        1.024     USER
THETA( 3)      OXY TRAN        1.024     USER
THETA( 4)      SOD RATE        1.065     USER
THETA( 5)      ORGN DEC        1.047     USER
THETA( 6)      ORGN SET        1.024     USER
THETA( 7)      NH3 DECA        1.070     USER
THETA( 8)      NH3 SRCE        1.074     USER
THETA( 9)      NO2 DECA        1.047     USER
THETA(10)      PORG DEC        1.047     USER
THETA(11)      PORG SET        1.024     USER
THETA(12)      DISP SRC        1.074     USER
THETA(13)      ALG GROW        1.047     USER
THETA(14)      ALG RESP        1.047     USER
THETA(15)      ALG SETT        1.024     USER
THETA(16)      COLI DEC        1.047     DFLT
THETA(17)      ANC DECA        1.000     DFLT
THETA(18)      ANC SETT        1.024     DFLT
THETA(19)      ANC SRCE        1.000     DFLT
ENDATA1B

 $$$ DATA TYPE 2 (REACH IDENTIFICATION) $$$

CARD TYPE           REACH ORDER AND IDENT              R. MI/KM           R. MI/KM
STREAM REACH     1.0  RCH=        REACH 1    FROM        200.4    TO         195.4
STREAM REACH     2.0  RCH=        REACH 2    FROM        195.4    TO         190.4
STREAM REACH     3.0  RCH=        REACH 3    FROM        190.4    TO         185.4
STREAM REACH     4.0  RCH=        REACH 4    FROM        185.4    TO         180.4
STREAM REACH     5.0  RCH=        REACH 5    FROM        180.4    TO         175.4
STREAM REACH     6.0  RCH=        REACH 6    FROM        175.4    TO         170.4
STREAM REACH     7.0  RCH=        REACH 7    FROM        170.4    TO         165.4
STREAM REACH     8.0  RCH=        REACH 8    FROM        165.4    TO         160.4
STREAM REACH     9.0  RCH=        REACH 9    FROM        160.4    TO         155.4
STREAM REACH    10.0  RCH=        REACH 10   FROM        155.4    TO         150.4
STREAM REACH    11.0  RCH=        REACH 11   FROM        150.4    TO         145.4
STREAM REACH    12.0  RCH=        REACH 12   FROM        145.4    TO         140.4
STREAM REACH    13.0  RCH=        REACH 13   FROM        140.4    TO         135.4
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STREAM REACH    14.0  RCH=        REACH 14   FROM        135.4    TO         130.4
STREAM REACH    15.0  RCH=        REACH 15   FROM        130.4    TO         125.4
STREAM REACH    16.0  RCH=        REACH 16   FROM        125.4    TO         120.4
STREAM REACH    17.0  RCH=        REACH 17   FROM        120.4    TO         117.4
ENDATA2          0.0                                      0.0                  0.0

 $$$ DATA TYPE 3 (TARGET LEVEL DO AND FLOW AUGMENTATION SOURCES) $$$

CARD TYPE                  REACH  AVAIL HDWS TARGET     ORDER OF AVAIL SOURCES
ENDATA3                     0.        0.       0.0   0.   0.   0.   0.   0.   0.

 $$$ DATA TYPE 4 (COMPUTATIONAL REACH FLAG FIELD) $$$

CARD TYPE        REACH ELEMENTS/REACH             COMPUTATIONAL FLAGS
FLAG FIELD        1.       20.          1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        2.       20.          2.2.2.2.2.2.2.6.7.6.7.6.2.2.6.2.6.2.2.2.
FLAG FIELD        3.       20.          2.2.2.2.6.2.2.2.2.6.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        4.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        5.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        6.       20.          2.2.2.2.2.2.2.2.2.2.6.2.2.2.2.6.2.2.2.2.
FLAG FIELD        7.       20.          2.2.2.7.6.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        8.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.6.2.2.
FLAG FIELD        9.       20.          2.2.2.6.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       10.       20.          2.2.2.2.2.2.2.6.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       11.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       12.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       13.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       14.       20.          2.2.2.2.2.2.2.6.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       15.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       16.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       17.       12.          2.2.2.2.2.2.2.2.2.2.5.0.0.0.0.0.0.0.0.0.
ENDATA4           0.        0.          0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.

 $$$ DATA TYPE 5 (HYDRAULIC DATA FOR DETERMINING VELOCITY AND DEPTH) $$$

CARD TYPE        REACH  COEF-DSPN  COEFQV    EXPOQV    COEFQH   EXPOQH     CMANN
HYDRAULICS        1.      30.00     0.000     0.979    14.000     0.016     0.035
HYDRAULICS        2.      30.00     0.000     0.984    13.300     0.014     0.035
HYDRAULICS        3.      30.00     0.000     0.979    12.400     0.012     0.035
HYDRAULICS        4.      30.00     0.000     0.982    16.100     0.015     0.035
HYDRAULICS        5.      30.00     0.000     0.986    21.200     0.009     0.035
HYDRAULICS        6.      30.00     0.000     0.992    21.700     0.005     0.035
HYDRAULICS        7.      30.00     0.000     0.993    21.700     0.003     0.035
HYDRAULICS        8.      30.00     0.000     0.995    21.600     0.003     0.035
HYDRAULICS        9.      30.00     0.000     0.996    21.600     0.001     0.035
HYDRAULICS       10.      30.00     0.000     0.996    21.100     0.002     0.035
HYDRAULICS       11.      30.00     0.000     0.997    20.900     0.002     0.035
HYDRAULICS       12.      30.00     0.000     0.998    26.500     0.001     0.035
HYDRAULICS       13.      30.00     0.000     0.998    32.300     0.001     0.035
HYDRAULICS       14.      30.00     0.000     0.999    29.800     0.001     0.035
HYDRAULICS       15.      30.00     0.000     0.999    27.300     0.000     0.035
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HYDRAULICS       16.     30.00     0.000     0.999    24.700     0.000     0.035
HYDRAULICS       17.     30.00     0.000     1.000    22.500     0.000     0.035
ENDATA5           0.      0.00     0.000     0.000     0.000     0.000     0.000

 $$$ DATA TYPE 5A (STEADY STATE TEMPERATURE AND CLIMATOLOGY DATA) $$$

CARD TYPE                          DUST     CLOUD   DRY BULB  WET BULB     ATM              SOLAR RAD
                REACH   ELEVATION  COEF     COVER     TEMP      TEMP    PRESSURE     WIND   ATTENUATION
TEMP/LCD          1.       54.00   0.13      0.20     73.30     66.80     30.00     10.55      1.00
TEMP/LCD          2.       54.00   0.13      0.20     73.30     66.80     30.00     10.55      1.00
TEMP/LCD          3.       54.00   0.13      0.20     73.30     66.80     30.00     10.55      1.00
TEMP/LCD          4.       54.00   0.13      0.20     73.30     66.80     30.00     10.55      1.00
TEMP/LCD          5.       54.00   0.13      0.20     73.30     66.80     30.00     10.55      1.00
TEMP/LCD          6.       54.00   0.13      0.20     73.30     66.80     30.00     10.55      1.00
TEMP/LCD          7.       54.00   0.13      0.20     73.30     66.80     30.00     10.55      1.00
TEMP/LCD          8.       54.00   0.13      0.20     73.30     66.80     30.00     10.55      1.00
TEMP/LCD          9.       54.00   0.13      0.20     73.30     66.80     30.00     10.55      1.00
TEMP/LCD         10.       54.00   0.13      0.20     73.30     66.80     30.00     10.55      1.00
TEMP/LCD         11.       54.00   0.13      0.20     73.30     66.80     30.00     10.55      1.00
TEMP/LCD         12.       54.00   0.13      0.20     73.30     66.80     30.00     10.55      1.00
TEMP/LCD         13.       54.00   0.13      0.20     73.30     66.80     30.00     10.55      1.00
TEMP/LCD         14.       54.00   0.13      0.20     73.30     66.80     30.00     10.55      1.00
TEMP/LCD         15.       54.00   0.13      0.20     73.30     66.80     30.00     10.55      1.00
TEMP/LCD         16.       54.00   0.13      0.20     73.30     66.80     30.00     10.55      1.00
TEMP/LCD         17.       54.00   0.13      0.20     73.30     66.80     30.00     10.55      1.00
ENDATA5A          0.        0.00   0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 6 (REACTION COEFFICIENTS FOR DEOXYGENATION AND REAERATION) $$$

CARD TYPE        REACH     K1        K3       SOD         K2OPT     K2      COEQK2    OR   EXPQK2
                                              RATE                         TSIV COEF  OR    SLOPE
                                                                           FOR OPT 8       FOR OPT 8
REACT COEF         1.      0.03      0.00      0.000        1.      0.25      0.000         0.00000
REACT COEF         2.      0.03      0.00      0.000        1.      0.27      0.000         0.00000
REACT COEF         3.      0.03      0.00      0.000        1.      0.29      0.000         0.00000
REACT COEF         4.      0.03      0.00      0.000        1.      0.22      0.000         0.00000
REACT COEF         5.      0.03      0.00      0.000        1.      0.17      0.000         0.00000
REACT COEF         6.      0.03      0.00      0.000        1.      0.17      0.000         0.00000
REACT COEF         7.      0.03      0.00      0.011        1.      0.18      0.000         0.00000
REACT COEF         8.      0.03      0.00      0.011        1.      0.18      0.000         0.00000
REACT COEF         9.      0.03      0.00      0.011        1.      0.18      0.000         0.00000
REACT COEF        10.      0.03      0.00      0.011        1.      0.18      0.000         0.00000
REACT COEF        11.      0.03      0.00      0.011        1.      0.19      0.000         0.00000
REACT COEF        12.      0.03      0.00      0.011        1.      0.15      0.000         0.00000
REACT COEF        13.      0.03      0.00      0.011        1.      0.12      0.000         0.00000
REACT COEF        14.      0.03      0.00      0.011        1.      0.13      0.000         0.00000
REACT COEF        15.      0.03      0.00      0.011        1.      0.14      0.000         0.00000
REACT COEF        16.      0.03      0.00      0.011        1.      0.16      0.000         0.00000
REACT COEF        17.      0.03      0.00      0.011        1.      0.17      0.000         0.00000
ENDATA6           0.      0.00      0.00      0.000        0.      0.00      0.000         0.00000
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$$$ DATA TYPE 6A (NITROGEN AND PHOSPHORUS CONSTANTS) $$$

CARD TYPE	REACH	CKNH2	SETNH2	CKNH3	SNH3	CKNO2	CKPORG	SETPORG	SPO4
N AND P COEF	1.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	2.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	3.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	4.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	5.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	6.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	7.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	8.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	9.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	10.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	11.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	12.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	13.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	14.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	15.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	16.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	17.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
ENDATA6A	0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 6B (ALGAE/OTHER COEFFICIENTS) $$$

CARD TYPE	REACH	ALPHAO	ALGSET	EXCOEF	CK5 CKCOLI	CKANC	SETANC	SRCANC
ALG/OTHER COEF	1.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ALG/OTHER COEF	2.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ALG/OTHER COEF	3.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	4.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	5.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	6.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	7.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	8.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	9.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	10.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	11.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	12.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	13.	50.00	0.05	0.82	0.00	0.00	0.00	0.00
ALG/OTHER COEF	14.	50.00	0.05	0.82	0.00	0.00	0.00	0.00
ALG/OTHER COEF	15.	50.00	0.05	0.82	0.00	0.00	0.00	0.00
ALG/OTHER COEF	16.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ALG/OTHER COEF	17.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ENDATA6B	0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 7 (INITIAL CONDITIONS) $$$

CARD TYPE	REACH	TEMP	D.O.	BOD	CM-1	CM-2	CM-3	ANC	COLI
INITIAL COND-1	1.	75.10	5.00	5.00	0.00	0.00	0.00	0.00	0.00
INITIAL COND-1	2.	75.10	5.00	5.00	0.00	0.00	0.00	0.00	0.00
INITIAL COND-1	3.	75.10	5.00	5.00	0.00	0.00	0.00	0.00	0.00

INITIAL COND-1	4.	75.10	5.00	5.00	0.00	0.00	0.00	0.00	0.00
INITIAL COND-1	5.	75.10	5.00	5.00	0.00	0.00	0.00	0.00	0.00
INITIAL COND-1	6.	75.10	5.00	5.00	0.00	0.00	0.00	0.00	0.00
INITIAL COND-1	7.	75.10	5.00	5.00	0.00	0.00	0.00	0.00	0.00
INITIAL COND-1	8.	75.10	5.00	5.00	0.00	0.00	0.00	0.00	0.00
INITIAL COND-1	9.	75.10	5.00	5.00	0.00	0.00	0.00	0.00	0.00
INITIAL COND-1	10.	75.10	5.00	5.00	0.00	0.00	0.00	0.00	0.00
INITIAL COND-1	11.	75.10	5.00	5.00	0.00	0.00	0.00	0.00	0.00
INITIAL COND-1	12.	75.10	5.00	5.00	0.00	0.00	0.00	0.00	0.00
INITIAL COND-1	13.	75.10	5.00	5.00	0.00	0.00	0.00	0.00	0.00
INITIAL COND-1	14.	75.10	5.00	5.00	0.00	0.00	0.00	0.00	0.00
INITIAL COND-1	15.	75.10	5.00	5.00	0.00	0.00	0.00	0.00	0.00
INITIAL COND-1	16.	75.10	5.00	5.00	0.00	0.00	0.00	0.00	0.00
INITIAL COND-1	17.	75.10	5.00	5.00	0.00	0.00	0.00	0.00	0.00
ENDATA7	0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 7A (INITIAL CONDITIONS FOR CHOROPHYLL A, NITROGEN, AND PHOSPHORUS) $$$

CARD TYPE	REACH	CHL-A	ORG-N	NH3-N	NO2-N	NO3-N	ORG-P	DIS-P
INITIAL COND-2	1.	10.00	0.55	0.03	0.02	0.20	0.06	0.02
INITIAL COND-2	2.	10.00	0.55	0.03	0.02	0.20	0.06	0.02
INITIAL COND-2	3.	10.00	0.55	0.03	0.02	0.20	0.06	0.02
INITIAL COND-2	4.	10.00	0.55	0.03	0.02	0.20	0.06	0.02
INITIAL COND-2	5.	10.00	0.55	0.03	0.02	0.20	0.06	0.02
INITIAL COND-2	6.	10.00	0.55	0.03	0.02	0.20	0.06	0.02
INITIAL COND-2	7.	10.00	0.55	0.03	0.02	0.20	0.06	0.02
INITIAL COND-2	8.	10.00	0.55	0.03	0.02	0.20	0.06	0.02
INITIAL COND-2	9.	10.00	0.55	0.03	0.02	0.30	0.06	0.03
INITIAL COND-2	10.	10.00	0.55	0.03	0.02	0.30	0.06	0.03
INITIAL COND-2	11.	10.00	0.55	0.03	0.02	0.30	0.06	0.03
INITIAL COND-2	12.	10.00	0.55	0.03	0.02	0.30	0.06	0.03
INITIAL COND-2	13.	10.00	0.55	0.03	0.02	0.30	0.06	0.03
INITIAL COND-2	14.	10.00	0.55	0.03	0.02	0.30	0.06	0.03
INITIAL COND-2	15.	10.00	0.55	0.03	0.02	0.30	0.06	0.03
INITIAL COND-2	16.	10.00	0.55	0.03	0.02	0.30	0.06	0.03
INITIAL COND-2	17.	10.00	0.55	0.03	0.02	0.30	0.06	0.03
ENDATA7A	0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 8 (INCREMENTAL INFLOW CONDITIONS) $$$

CARD TYPE	REACH	FLOW	TEMP	D.O.	BOD	CM-1	CM-2	CM-3	ANC	COLI
INCR INFLOW-1	1.	3.000	75.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00
INCR INFLOW-1	2.	3.000	75.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00
INCR INFLOW-1	3.	3.000	75.00	5.00	370.40	0.00	0.00	0.00	0.00	0.00
INCR INFLOW-1	4.	3.000	75.00	5.00	740.70	0.00	0.00	0.00	0.00	0.00
INCR INFLOW-1	5.	3.000	75.00	5.00	833.30	0.00	0.00	0.00	0.00	0.00
INCR INFLOW-1	6.	3.000	75.00	5.00	740.70	0.00	0.00	0.00	0.00	0.00
INCR INFLOW-1	7.	3.000	75.00	5.00	555.60	0.00	0.00	0.00	0.00	0.00
INCR INFLOW-1	8.	3.000	75.00	5.00	555.60	0.00	0.00	0.00	0.00	0.00
INCR INFLOW-1	9.	3.000	75.00	5.00	555.60	0.00	0.00	0.00	0.00	0.00
INCR INFLOW-1	10.	3.000	75.00	5.00	555.60	0.00	0.00	0.00	0.00	0.00

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INCR INFLOW-1        11.     3.000     75.00      5.00    468.50      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        12.     3.000     75.00      5.00    468.50      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        13.     3.000     75.00      5.00    451.50      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        14.     3.000     75.00      5.00    408.90      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        15.     3.000     75.00      5.00    366.30      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        16.     3.000     75.00      5.00    323.70      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        17.     3.000     75.00      5.00    281.10      0.00      0.00      0.00      0.00      0.00
ENDATA8               0.     0.000      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 8A (INCREMENTAL INFLOW CONDITIONS FOR CHLOROPHYLL A, NITROGEN, AND PHOSPHORUS) $$$

CARD TYPE           REACH    CHL-A     ORG-N     NH3-N     NO2-N     NO3-N     ORG-P     DIS-P
INCR INFLOW-2         1.      0.00      0.00      0.00      0.00      0.00      0.74      0.00
INCR INFLOW-2         2.      0.00      0.00      0.00      0.00      0.00     12.96      0.00
INCR INFLOW-2         3.      0.00      0.00      0.00      0.00      0.00     25.93      0.00
INCR INFLOW-2         4.      0.00      0.00      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         5.      0.00      0.00      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         6.      0.00     22.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         7.      0.00     22.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         8.      0.00     22.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         9.      0.00     22.20      0.00      0.00      0.00      3.70      0.00
INCR INFLOW-2        10.      0.00     22.20      0.00      0.00      0.00      5.56      0.00
INCR INFLOW-2        11.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        12.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        13.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        14.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        15.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        16.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        17.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
ENDATA8A              0.      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 9 (STREAM JUNCTIONS) $$$

CARD TYPE              JUNCTION ORDER AND IDENT         UPSTRM   JUNCTION    TRIB
ENDATA9                0.                                 0.        0.        0.

 $$$ DATA TYPE 10 (HEADWATER SOURCES) $$$

CARD TYPE    HDWTR     NAME              FLOW      TEMP      D.O.       BOD      CM-1      CM-2      CM-3
             ORDER
HEADWTR-1      1.          REACH 1    1591.00     74.10      6.80      5.60      0.00      0.00      0.00
ENDATA10       0.                        0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 10A (HEADWATER CONDITIONS FOR CHLOROPHYLL, NITROGEN, PHOSPHORUS,
                    COLIFORM AND SELECTED NON-CONSERVATIVE CONSTITUENT) $$$

CARD TYPE     HDWTR     ANC      COLI     CHL-A     ORG-N     NH3-N     NO2-N     NO3-N     ORG-P     DIS-P
              ORDER
HEADWTR-2       1.     0.00      0.00     13.80      0.72      0.03      0.02      0.17      0.04      0.02
ENDATA10A       0.     0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
```

$$$ DATA TYPE 11 (POINT SOURCE / POINT SOURCE CHARACTERISTICS) $$$

CARD TYPE	POINT LOAD ORDER	NAME	EFF	FLOW	TEMP	D.O.	BOD	CM-1	CM-2	CM-3
POINTLD-1	1.	BARTHOLOMEW	0.00	339.00	71.20	7.00	8.10	0.00	0.00	0.00
POINTLD-1	2.	OUCH POW IN	0.00	-10.62	74.10	0.00	0.00	0.00	0.00	0.00
POINTLD-1	3.	OUCH POW OUT	0.00	2.40	99.00	6.00	5.00	0.00	0.00	0.00
POINTLD-1	4.	ENT STER IN	0.00	-307.54	74.10	0.00	0.00	0.00	0.00	0.00
POINTLD-1	5.	ENT STER OUT	0.00	307.54	112.00	6.60	5.00	0.00	0.00	0.00
POINTLD-1	6.	STERLINGTON	0.00	0.29	86.00	2.00	69.00	0.00	0.00	0.00
POINTLD-1	7.	KOCH OO1	0.00	4.82	86.00	2.00	10.70	0.00	0.00	0.00
POINTLD-1	8.	ANGUS 002	0.00	1.45	86.00	2.00	106.00	0.00	0.00	0.00
POINTLD-1	9.	B DE L'OUTRE	0.00	10.60	76.30	6.70	5.60	0.00	0.00	0.00
POINTLD-1	10.	B D'ARBONNE	0.00	14.50	74.30	6.80	5.60	0.00	0.00	0.00
POINTLD-1	11.	CHAUVIN B	0.00	2.40	71.20	7.00	23.00	0.00	0.00	0.00
POINTLD-1	12.	ENT MON IN	0.00	-224.30	75.10	0.00	0.00	0.00	0.00	0.00
POINTLD-1	13.	ENT MON OUT	0.00	224.30	106.00	6.16	7.00	0.00	0.00	0.00
POINTLD-1	14.	JUDY SLOUGH	0.00	56.92	75.90	2.00	86.40	0.00	0.00	0.00
POINTLD-1	15.	MONROE POTW	0.00	23.21	86.00	2.00	23.00	0.00	0.00	0.00
POINTLD-1	16.	CHENERE CR	0.00	0.50	75.90	6.70	12.10	0.00	0.00	0.00
POINTLD-1	17.	CYPRESS CR	0.00	0.00	86.00	0.00	0.00	0.00	0.00	0.00
ENDATA11	0.		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 11A (POINT SOURCE CHARACTERISTICS - CHLOROPHYLL A, NITROGEN, PHOSPHORUS, COLIFORMS AND SELECTED NON-CONSERVATIVE CONSTITUENT) $$$

CARD TYPE	POINT LOAD ORDER	ANC	COLI	CHL-A	ORG-N	NH3-N	NO2-N	N03-N	ORG-P	DIS-P
POINTLD-2	1.	0.00	0.00	17.40	0.70	0.02	0.02	0.22	0.21	0.03
POINTLD-2	2.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POINTLD-2	3.	0.00	0.00	0.00	0.70	0.03	0.02	0.16	0.08	0.02
POINTLD-2	4.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POINTLD-2	5.	0.00	0.00	0.00	0.70	0.03	0.02	0.20	0.10	0.02
POINTLD-2	6.	0.00	0.00	100.00	10.00	5.00	0.00	0.70	2.50	1.00
POINTLD-2	7.	0.00	0.00	0.00	0.76	16.50	0.00	0.58	0.24	0.15
POINTLD-2	8.	0.00	0.00	0.00	8.32	0.31	0.00	34.33	0.33	0.01
POINTLD-2	9.	0.00	0.00	13.30	0.81	0.02	0.02	0.08	0.08	0.01
POINTLD-2	10.	0.00	0.00	13.30	0.71	0.02	0.02	0.07	0.06	0.01
POINTLD-2	11.	0.00	0.00	29.30	1.88	1.24	0.02	0.22	0.41	0.63
POINTLD-2	12.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POINTLD-2	13.	0.00	0.00	0.00	0.67	0.04	0.04	0.30	0.15	0.03
POINTLD-2	14.	0.00	0.00	12.20	2.98	1.50	0.00	0.12	0.69	0.70
POINTLD-2	15.	0.00	0.00	0.00	0.67	1.33	0.00	6.36	0.95	0.29
POINTLD-2	16.	0.00	0.00	13.30	0.81	0.02	0.00	0.03	0.06	0.01
POINTLD-2	17.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENDATA11A	0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 12 (DAM CHARACTERISTICS) $$$

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                      DAM   RCH   ELE    ADAM    BDAM    FDAM    HDAM
ENDATA12                0.    0.    0.    0.00    0.00    0.00    0.00
 $$$ DATA TYPE 13 (DOWNSTREAM BOUNDARY CONDITIONS-1) $$$
     CARD TYPE               TEMP       D.O.      BOD       CM-1      CM-2      CM-3       ANC      COLI
ENDATA13                     DOWNSTREAM BOUNDARY CONCENTRATIONS ARE UNCONSTRAINED
 $$$ DATA TYPE 13A (DOWNSTREAM BOUNDARY CONDITIONS-2) $$$
     CARD TYPE               CHL-A     ORG-N     NH3-N     NO2-N     NH3-N     ORG-P     DIS-P
ENDATA13A                    DOWNSTREAM BOUNDARY CONCENTRATIONS ARE UNCONSTRAINED
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                                    * * * QUAL-2E  STREAM QUALITY ROUTING MODEL * * *
                                                Version 3.21  -  Feb. 1995

 $$$ (PROBLEM TITLES) $$$

CARD TYPE                              QUAL-2E PROGRAM TITLES
TITLE01              LOWER OUACHITA RIVER JUNE PROJECTION - STEADY STATE WQ RUN
TITLE02              WITHOUT LOAD REDUCTION
TITLE03  NO          CONSERVATIVE MINERAL I
TITLE04  NO          CONSERVATIVE MINERAL II
TITLE05  NO          CONSERVATIVE MINERAL III
TITLE06  YES         TEMPERATURE
TITLE07  YES         BIOCHEMICAL OXYGEN DEMAND
TITLE08  YES         ALGAE AS CHL-A IN UG/L
TITLE09  YES         PHOSPHORUS CYCLE AS P IN MG/L
TITLE10                (ORGANIC-P; DISSOLVED-P)
TITLE11  YES         NITROGEN CYCLE AS N IN MG/L
TITLE12                (ORGANIC-N; AMMONIA-N; NITRITE-N;' NITRATE-N)
TITLE13  YES         DISSOLVED OXYGEN IN MG/L
TITLE14  NO          FECAL COLIFORM IN NO./100 ML
TITLE15  NO          ARBITRARY NON-CONSERVATIVE
ENDTITLE

 $$$ DATA TYPE 1 (CONTROL DATA) $$$

CARD TYPE                                    CARD TYPE
LIST DATA INPUT             0.00000                                     0.00000
WRITE OPTIONAL SUMMARY      0.00000                                     0.00000
NO FLOW AUGMENTATION        0.00000                                     0.00000
STEADY STATE                0.00000                                     0.00000
NO TRAP CHANNELS            0.00000                                     0.00000
NO PRINT LCD/SOLAR DATA     0.00000                                     0.00000
NO PLOT DO AND BOD DATA     0.00000                                     0.00000
FIXED DNSTM CONC (YES=1)=   0.00000          5D-ULT BOD CONV K COEF  =   0.23000
INPUT METRIC            =   0.00000          OUTPUT METRIC           =   0.00000
NUMBER OF REACHES       =  17.00000          NUMBER OF JUNCTIONS     =   0.00000
NUM OF HEADWATERS       =   1.00000          NUMBER OF POINT LOADS   =  17.00000
TIME STEP (HOURS)       =   1.00000          LNTH. COMP. ELEMENT (DX)=   0.25000
MAXIMUM ROUTE TIME (HRS)= 450.00000          TIME INC. FOR RPT2 (HRS)=   3.00000
LATITUDE OF BASIN (DEG) =  32.50000          LONGITUDE OF BASIN (DEG)=  92.00000
STANDARD MARIDIAN (DEG) =  90.00000          DAY OF YEAR START TIME  = 166.00000
EVAP. COEF.,(AE)        =   0.00150          EVAP. COEF.,(BE)        =   0.00027
ELEV. OF BASIN (ELEV)   =  54.00000          DUST ATTENUATION COEF.  =   0.13000
ENDATA1                     0.00000                                     0.00000

 $$$ DATA TYPE 1A (ALGAE PRODUCTION AND NITROGEN OXIDATION CONSTANTS) $$$

CARD TYPE                                          CARD TYPE
O UPTAKE BY NH3 OXID(MG O/MG N)=    3.4300         O UPTAKE BY NO2 OXID(MG O/MG N)=    1.1400
O PROD  BY ALGAE (MG O/MG A)   =    1.8000         O UPTAKE BY ALGAE (MG O/MG A)  =    2.3000
N CONTENT OF ALGAE (MG N/MG A) =    0.0900         P CONTENT OF ALGAE (MG O/MG A) =    0.0150
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ALG MAX SPEC GROWTH RATE(1/DAY)=    2.1000          ALGAE RESPIRATION RATE (1/DAY) =    0.0500
N HALF SATURATION CONST (MG/L) =    0.2000          P HALF SATURATION CONST (MG/L) =    0.0400
LIN ALG SHADE CO (1/FT-UGCHA/L=)    0.0027          NLIN SHADE(1/FT-(UGCHA/L)**2/3)=    0.0165
LIGHT FUNCTION OPTION (LFNOPT) =    1.0000          LIGHT SAT'N COEF (BTU/FT2-MIN) =    0.0660
DAILY AVERAGING OPTION (LAVOPT)=    3.0000          LIGHT AVERAGING FACTOR (AFACT) =    0.9200
NUMBER OF DAYLIGHT HOURS (DLH) =   14.0000          TOTAL DAILY SOLR RAD (BTU/FT-2)= 1300.0000
ALGY GROWTH CALC OPTION(LGROPT)=    1.0000          ALGAL PREF FOR NH3-N (PREFN)   =    0.5000
ALG/TEMP SOLR RAD FACTOR(TFACT)=    0.4400          NITRIFICATION INHIBITION COEF  =    0.6000
ENDATA1A                            0.0000                                              0.0000

 $$$ DATA TYPE 1B (TEMPERATURE CORRECTION CONSTANTS FOR RATE COEFFICIENTS) $$$

CARD TYPE     RATE CODE     THETA VALUE

THETA( 1)      BOD DECA        1.047     USER
THETA( 2)      BOD SETT        1.024     USER
THETA( 3)      OXY TRAN        1.024     USER
THETA( 4)      SOD RATE        1.065     USER
THETA( 5)      ORGN DEC        1.047     USER
THETA( 6)      ORGN SET        1.024     USER
THETA( 7)      NH3 DECA        1.070     USER
THETA( 8)      NH3 SRCE        1.074     USER
THETA( 9)      NO2 DECA        1.047     USER
THETA(10)      PORG DEC        1.047     USER
THETA(11)      PORG SET        1.024     USER
THETA(12)      DISP SRC        1.074     USER
THETA(13)      ALG GROW        1.047     USER
THETA(14)      ALG RESP        1.047     USER
THETA(15)      ALG SETT        1.024     USER
THETA(16)      COLI DEC        1.047     DFLT
THETA(17)      ANC DECA        1.000     DFLT
THETA(18)      ANC SETT        1.024     DFLT
THETA(19)      ANC SRCE        1.000     DFLT
ENDATA1B

 $$$ DATA TYPE 2 (REACH IDENTIFICATION) $$$

CARD TYPE           REACH ORDER AND IDENT              R. MI/KM           R. MI/KM
STREAM REACH     1.0  RCH=        REACH 1    FROM        200.4    TO         195.4
STREAM REACH     2.0  RCH=        REACH 2    FROM        195.4    TO         190.4
STREAM REACH     3.0  RCH=        REACH 3    FROM        190.4    TO         185.4
STREAM REACH     4.0  RCH=        REACH 4    FROM        185.4    TO         180.4
STREAM REACH     5.0  RCH=        REACH 5    FROM        180.4    TO         175.4
STREAM REACH     6.0  RCH=        REACH 6    FROM        175.4    TO         170.4
STREAM REACH     7.0  RCH=        REACH 7    FROM        170.4    TO         165.4
STREAM REACH     8.0  RCH=        REACH 8    FROM        165.4    TO         160.4
STREAM REACH     9.0  RCH=        REACH 9    FROM        160.4    TO         155.4
STREAM REACH    10.0  RCH=        REACH 10   FROM        155.4    TO         150.4
STREAM REACH    11.0  RCH=        REACH 11   FROM        150.4    TO         145.4
STREAM REACH    12.0  RCH=        REACH 12   FROM        145.4    TO         140.4
STREAM REACH    13.0  RCH=        REACH 13   FROM        140.4    TO         135.4
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STREAM REACH    14.0  RCH=        REACH 14   FROM        135.4    TO         130.4
STREAM REACH    15.0  RCH=        REACH 15   FROM        130.4    TO         125.4
STREAM REACH    16.0  RCH=        REACH 16   FROM        125.4    TO         120.4
STREAM REACH    17.0  RCH=        REACH 17   FROM        120.4    TO         117.4
ENDATA2          0.0                                      0.0                  0.0

 $$$ DATA TYPE 3 (TARGET LEVEL DO AND FLOW AUGMENTATION SOURCES) $$$

CARD TYPE                  REACH  AVAIL HDWS TARGET     ORDER OF AVAIL SOURCES
ENDATA3                     0.        0.       0.0   0.   0.   0.   0.   0.   0.

 $$$ DATA TYPE 4 (COMPUTATIONAL REACH FLAG FIELD) $$$

CARD TYPE        REACH ELEMENTS/REACH             COMPUTATIONAL FLAGS
FLAG FIELD        1.       20.          1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        2.       20.          2.2.2.2.2.2.2.6.7.6.7.6.2.2.6.2.6.2.2.2.
FLAG FIELD        3.       20.          2.2.2.2.6.2.2.2.2.6.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        4.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        5.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        6.       20.          2.2.2.2.2.2.2.2.2.2.6.2.2.2.2.6.2.2.2.2.
FLAG FIELD        7.       20.          2.2.2.7.6.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        8.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.6.2.2.
FLAG FIELD        9.       20.          2.2.2.6.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       10.       20.          2.2.2.2.2.2.2.6.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       11.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       12.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       13.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       14.       20.          2.2.2.2.2.2.2.6.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       15.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       16.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       17.       12.          2.2.2.2.2.2.2.2.2.2.5.0.0.0.0.0.0.0.0.0.
ENDATA4           0.        0.          0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.

 $$$ DATA TYPE 5 (HYDRAULIC DATA FOR DETERMINING VELOCITY AND DEPTH) $$$

CARD TYPE        REACH  COEF-DSPN  COEFQV    EXPOQV    COEFQH   EXPOQH     CMANN
HYDRAULICS        1.      30.00     0.000     0.979    14.000     0.016     0.035
HYDRAULICS        2.      30.00     0.000     0.984    13.300     0.014     0.035
HYDRAULICS        3.      30.00     0.000     0.979    12.400     0.012     0.035
HYDRAULICS        4.      30.00     0.000     0.982    16.100     0.015     0.035
HYDRAULICS        5.      30.00     0.000     0.986    21.200     0.009     0.035
HYDRAULICS        6.      30.00     0.000     0.992    21.700     0.005     0.035
HYDRAULICS        7.      30.00     0.000     0.993    21.700     0.003     0.035
HYDRAULICS        8.      30.00     0.000     0.995    21.600     0.003     0.035
HYDRAULICS        9.      30.00     0.000     0.996    21.600     0.001     0.035
HYDRAULICS       10.      30.00     0.000     0.996    21.100     0.002     0.035
HYDRAULICS       11.      30.00     0.000     0.997    20.900     0.002     0.035
HYDRAULICS       12.      30.00     0.000     0.998    26.500     0.001     0.035
HYDRAULICS       13.      30.00     0.000     0.998    32.300     0.001     0.035
HYDRAULICS       14.      30.00     0.000     0.999    29.800     0.001     0.035
HYDRAULICS       15.      30.00     0.000     0.999    27.300     0.000     0.035
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HYDRAULICS       16.     30.00     0.000     0.999    24.700     0.000     0.035
HYDRAULICS       17.     30.00     0.000     1.000    22.500     0.000     0.035
ENDATA5           0.      0.00     0.000     0.000     0.000     0.000     0.000

 $$$ DATA TYPE 5A (STEADY STATE TEMPERATURE AND CLIMATOLOGY DATA) $$$

CARD TYPE                          DUST     CLOUD   DRY BULB  WET BULB     ATM              SOLAR RAD
                REACH   ELEVATION  COEF     COVER     TEMP      TEMP    PRESSURE     WIND   ATTENUATION
TEMP/LCD          1.       54.00   0.13      0.20     80.10     73.10     30.00      8.67      1.00
TEMP/LCD          2.       54.00   0.13      0.20     80.10     73.10     30.00      8.67      1.00
TEMP/LCD          3.       54.00   0.13      0.20     80.10     73.10     30.00      8.67      1.00
TEMP/LCD          4.       54.00   0.13      0.20     80.10     73.10     30.00      8.67      1.00
TEMP/LCD          5.       54.00   0.13      0.20     80.10     73.10     30.00      8.67      1.00
TEMP/LCD          6.       54.00   0.13      0.20     80.10     73.10     30.00      8.67      1.00
TEMP/LCD          7.       54.00   0.13      0.20     80.10     73.10     30.00      8.67      1.00
TEMP/LCD          8.       54.00   0.13      0.20     80.10     73.10     30.00      8.67      1.00
TEMP/LCD          9.       54.00   0.13      0.20     80.10     73.10     30.00      8.67      1.00
TEMP/LCD         10.       54.00   0.13      0.20     80.10     73.10     30.00      8.67      1.00
TEMP/LCD         11.       54.00   0.13      0.20     80.10     73.10     30.00      8.67      1.00
TEMP/LCD         12.       54.00   0.13      0.20     80.10     73.10     30.00      8.67      1.00
TEMP/LCD         13.       54.00   0.13      0.20     80.10     73.10     30.00      8.67      1.00
TEMP/LCD         14.       54.00   0.13      0.20     80.10     73.10     30.00      8.67      1.00
TEMP/LCD         15.       54.00   0.13      0.20     80.10     73.10     30.00      8.67      1.00
TEMP/LCD         16.       54.00   0.13      0.20     80.10     73.10     30.00      8.67      1.00
TEMP/LCD         17.       54.00   0.13      0.20     80.10     73.10     30.00      8.67      1.00
ENDATA5A          0.        0.00   0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 6 (REACTION COEFFICIENTS FOR DEOXYGENATION AND REAERATION) $$$

CARD TYPE        REACH     K1        K3       SOD         K2OPT     K2      COEQK2    OR   EXPQK2
                                              RATE                         TSIV COEF  OR    SLOPE
                                                                           FOR OPT 8      FOR OPT 8
REACT COEF        1.      0.03      0.00      0.000        1.      0.22      0.000        0.00000
REACT COEF        2.      0.03      0.00      0.000        1.      0.24      0.000        0.00000
REACT COEF        3.      0.03      0.00      0.000        1.      0.26      0.000        0.00000
REACT COEF        4.      0.03      0.00      0.000        1.      0.19      0.000        0.00000
REACT COEF        5.      0.03      0.00      0.000        1.      0.16      0.000        0.00000
REACT COEF        6.      0.03      0.00      0.000        1.      0.16      0.000        0.00000
REACT COEF        7.      0.03      0.00      0.011        1.      0.16      0.000        0.00000
REACT COEF        8.      0.03      0.00      0.011        1.      0.16      0.000        0.00000
REACT COEF        9.      0.03      0.00      0.011        1.      0.16      0.000        0.00000
REACT COEF       10.      0.03      0.00      0.011        1.      0.16      0.000        0.00000
REACT COEF       11.      0.03      0.00      0.011        1.      0.17      0.000        0.00000
REACT COEF       12.      0.03      0.00      0.011        1.      0.13      0.000        0.00000
REACT COEF       13.      0.03      0.00      0.011        1.      0.11      0.000        0.00000
REACT COEF       14.      0.03      0.00      0.011        1.      0.12      0.000        0.00000
REACT COEF       15.      0.03      0.00      0.011        1.      0.13      0.000        0.00000
REACT COEF       16.      0.03      0.00      0.011        1.      0.14      0.000        0.00000
REACT COEF       17.      0.03      0.00      0.011        1.      0.16      0.000        0.00000
ENDATA6           0.      0.00      0.00      0.000        0.      0.00      0.000        0.00000
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$$$ DATA TYPE 6A (NITROGEN AND PHOSPHORUS CONSTANTS) $$$

CARD TYPE	REACH	CKNH2	SETNH2	CKNH3	SNH3	CKNO2	CKPORG	SETPORG	SPO4
N AND P COEF	1.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	2.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	3.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	4.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	5.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	6.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	7.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	8.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	9.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	10.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	11.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	12.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	13.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	14.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	15.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	16.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	17.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
ENDATA6A	0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 6B (ALGAE/OTHER COEFFICIENTS) $$$

CARD TYPE	REACH	ALPHAO	ALGSET	EXCOEF	CK5 CKCOLI	CKANC	SETANC	SRCANC
ALG/OTHER COEF	1.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ALG/OTHER COEF	2.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ALG/OTHER COEF	3.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	4.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	5.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	6.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	7.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	8.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	9.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	10.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	11.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	12.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	13.	50.00	0.05	0.82	0.00	0.00	0.00	0.00
ALG/OTHER COEF	14.	50.00	0.05	0.82	0.00	0.00	0.00	0.00
ALG/OTHER COEF	15.	50.00	0.05	0.82	0.00	0.00	0.00	0.00
ALG/OTHER COEF	16.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ALG/OTHER COEF	17.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ENDATA6B	0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 7 (INITIAL CONDITIONS) $$$

CARD TYPE	REACH	TEMP	D.O.	BOD	CM-1	CM-2	CM-3	ANC	COLI
INITIAL COND-1	1.	83.00	3.00	5.00	0.00	0.00	0.00	0.00	0.00
INITIAL COND-1	2.	83.00	3.00	5.00	0.00	0.00	0.00	0.00	0.00
INITIAL COND-1	3.	83.00	3.00	5.00	0.00	0.00	0.00	0.00	0.00

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INITIAL COND-1        4.     83.00      3.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        5.     83.00      3.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        6.     83.00      3.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        7.     83.00      3.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        8.     83.00      3.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        9.     83.00      3.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       10.     83.00      3.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       11.     83.00      3.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       12.     83.00      3.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       13.     83.00      3.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       14.     83.00      3.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       15.     83.00      3.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       16.     83.00      3.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       17.     83.00      3.00      5.00      0.00      0.00      0.00      0.00      0.00
ENDATA7               0.      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 7A (INITIAL CONDITIONS FOR CHOROPHYLL A, NITROGEN, AND PHOSPHORUS) $$$

CARD TYPE           REACH     CHL-A     ORG-N     NH3-N     NO2-N     NO3-N     ORG-P     DIS-P
INITIAL COND-2        1.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2        2.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2        3.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2        4.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2        5.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2        6.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2        7.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2        8.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2        9.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2       10.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2       11.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2       12.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2       13.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2       14.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2       15.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2       16.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2       17.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
ENDATA7A              0.      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 8 (INCREMENTAL INFLOW CONDITIONS) $$$

CARD TYPE           REACH      FLOW      TEMP      D.O.       BOD      CM-1      CM-2      CM-3       ANC      COLI
INCR INFLOW-1         1.     3.000     83.20      3.00      0.00      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1         2.     3.000     83.20      3.00      0.00      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1         3.     3.000     83.20      3.00    370.40      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1         4.     3.000     83.20      3.00    740.70      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1         5.     3.000     83.20      3.00    833.30      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1         6.     3.000     83.20      3.00    740.70      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1         7.     3.000     83.20      3.00    555.60      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1         8.     3.000     83.20      3.00    555.60      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1         9.     3.000     83.20      3.00    555.60      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        10.     3.000     83.20      3.00    555.60      0.00      0.00      0.00      0.00      0.00
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INCR INFLOW-1        11.     3.000     83.20      3.00    468.50      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        12.     3.000     83.20      3.00    468.50      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        13.     3.000     83.20      3.00    451.50      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        14.     3.000     83.20      3.00    408.90      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        15.     3.000     83.20      3.00    366.30      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        16.     3.000     83.20      3.00    323.70      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        17.     3.000     83.20      3.00    281.10      0.00      0.00      0.00      0.00      0.00
ENDATA8               0.     0.000      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 8A (INCREMENTAL INFLOW CONDITIONS FOR CHLOROPHYLL A, NITROGEN, AND PHOSPHORUS) $$$

CARD TYPE           REACH    CHL-A     ORG-N     NH3-N     NO2-N     NO3-N     ORG-P     DIS-P
INCR INFLOW-2         1.      0.00      0.00      0.00      0.00      0.00      0.74      0.00
INCR INFLOW-2         2.      0.00      0.00      0.00      0.00      0.00     12.96      0.00
INCR INFLOW-2         3.      0.00      0.00      0.00      0.00      0.00     25.93      0.00
INCR INFLOW-2         4.      0.00      0.00      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         5.      0.00      0.00      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         6.      0.00     22.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         7.      0.00     22.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         8.      0.00     22.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         9.      0.00     22.20      0.00      0.00      0.00      3.70      0.00
INCR INFLOW-2        10.      0.00     22.20      0.00      0.00      0.00      5.56      0.00
INCR INFLOW-2        11.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        12.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        13.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        14.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        15.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        16.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        17.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
ENDATA8A              0.      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 9 (STREAM JUNCTIONS) $$$

CARD TYPE              JUNCTION ORDER AND IDENT         UPSTRM   JUNCTION    TRIB
ENDATA9                0.                                 0.        0.        0.

 $$$ DATA TYPE 10 (HEADWATER SOURCES) $$$

CARD TYPE    HDWTR     NAME              FLOW      TEMP      D.O.       BOD      CM-1      CM-2      CM-3
             ORDER
HEADWTR-1      1.          REACH 1    1049.00     82.80      6.20      5.60      0.00      0.00      0.00
ENDATA10       0.                        0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 10A (HEADWATER CONDITIONS FOR CHLOROPHYLL, NITROGEN, PHOSPHORUS,
                    COLIFORM AND SELECTED NON-CONSERVATIVE CONSTITUENT) $$$

CARD TYPE     HDWTR     ANC      COLI     CHL-A     ORG-N     NH3-N     NO2-N     NO3-N     ORG-P     DIS-P
              ORDER
HEADWTR-2       1.     0.00      0.00     13.80      0.72      0.03      0.02      0.17      0.04      0.02
ENDATA10A       0.     0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
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$$$ DATA TYPE 11 (POINT SOURCE / POINT SOURCE CHARACTERISTICS) $$$

CARD TYPE	POINT LOAD ORDER	NAME	EFF	FLOW	TEMP	D.O.	BOD	CM-1	CM-2	CM-3
POINTLD-1	1.	BARTHOLOMEW	0.00	148.00	81.50	6.30	8.10	0.00	0.00	0.00
POINTLD-1	2.	OUCH POW IN	0.00	-10.62	74.10	0.00	0.00	0.00	0.00	0.00
POINTLD-1	3.	OUCH POW OUT	0.00	2.40	99.00	6.00	5.00	0.00	0.00	0.00
POINTLD-1	4.	ENT STER IN	0.00	-307.54	74.10	0.00	0.00	0.00	0.00	0.00
POINTLD-1	5.	ENT STER OUT	0.00	307.54	112.00	6.00	5.00	0.00	0.00	0.00
POINTLD-1	6.	STERLINGTON	0.00	0.29	86.00	2.00	69.00	0.00	0.00	0.00
POINTLD-1	7.	KOCH OO1	0.00	4.82	86.00	2.00	10.70	0.00	0.00	0.00
POINTLD-1	8.	ANGUS 002	0.00	1.45	86.00	2.00	106.00	0.00	0.00	0.00
POINTLD-1	9.	B DE L'OUTRE	0.00	6.00	82.80	6.20	5.60	0.00	0.00	0.00
POINTLD-1	10.	B D'ARBONNE	0.00	1.80	81.90	6.30	5.60	0.00	0.00	0.00
POINTLD-1	11.	CHAUVIN B	0.00	2.40	81.50	6.30	23.00	0.00	0.00	0.00
POINTLD-1	12.	ENT MON IN	0.00	-224.30	75.10	0.00	0.00	0.00	0.00	0.00
POINTLD-1	13.	ENT MON OUT	0.00	224.30	106.00	5.30	7.00	0.00	0.00	0.00
POINTLD-1	14.	JUDY SLOUGH	0.00	37.03	81.00	2.00	86.40	0.00	0.00	0.00
POINTLD-1	15.	MONROE POTW	0.00	23.21	86.00	2.00	23.00	0.00	0.00	0.00
POINTLD-1	16.	CHENERE CR	0.00	0.50	81.00	6.40	12.10	0.00	0.00	0.00
POINTLD-1	17.	CYPRESS CR	0.00	0.00	86.00	0.00	0.00	0.00	0.00	0.00
ENDATA11	0.		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 11A (POINT SOURCE CHARACTERISTICS - CHLOROPHYLL A, NITROGEN, PHOSPHORUS, COLIFORMS AND SELECTED NON-CONSERVATIVE CONSTITUENT) $$$

CARD TYPE	POINT LOAD ORDER	ANC	COLI	CHL-A	ORG-N	NH3-N	NO2-N	N03-N	ORG-P	DIS-P
POINTLD-2	1.	0.00	0.00	17.40	0.70	0.02	0.02	0.22	0.21	0.03
POINTLD-2	2.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POINTLD-2	3.	0.00	0.00	0.00	0.70	0.03	0.02	0.16	0.08	0.02
POINTLD-2	4.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POINTLD-2	5.	0.00	0.00	0.00	0.70	0.03	0.02	0.20	0.10	0.02
POINTLD-2	6.	0.00	0.00	100.00	10.00	5.00	0.00	0.70	2.50	1.00
POINTLD-2	7.	0.00	0.00	0.00	0.76	16.50	0.00	0.58	0.24	0.15
POINTLD-2	8.	0.00	0.00	0.00	8.32	0.31	0.00	34.33	0.33	0.01
POINTLD-2	9.	0.00	0.00	13.30	0.81	0.02	0.02	0.08	0.08	0.01
POINTLD-2	10.	0.00	0.00	13.30	0.71	0.02	0.02	0.07	0.06	0.01
POINTLD-2	11.	0.00	0.00	29.30	1.88	1.24	0.02	0.22	0.41	0.63
POINTLD-2	12.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POINTLD-2	13.	0.00	0.00	0.00	0.67	0.04	0.04	0.30	0.15	0.03
POINTLD-2	14.	0.00	0.00	12.20	2.98	1.50	0.00	0.12	0.69	0.70
POINTLD-2	15.	0.00	0.00	0.00	0.67	1.33	0.00	6.36	0.95	0.29
POINTLD-2	16.	0.00	0.00	13.30	0.81	0.02	0.00	0.03	0.06	0.01
POINTLD-2	17.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENDATA11A	0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 12 (DAM CHARACTERISTICS) $$$

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                      DAM   RCH   ELE    ADAM    BDAM    FDAM    HDAM
ENDATA12                0.    0.    0.    0.00    0.00    0.00    0.00
 $$$ DATA TYPE 13 (DOWNSTREAM BOUNDARY CONDITIONS-1) $$$
     CARD TYPE               TEMP       D.O.      BOD       CM-1      CM-2      CM-3       ANC      COLI
ENDATA13                     DOWNSTREAM BOUNDARY CONCENTRATIONS ARE UNCONSTRAINED
 $$$ DATA TYPE 13A (DOWNSTREAM BOUNDARY CONDITIONS-2) $$$
     CARD TYPE               CHL-A     ORG-N     NH3-N     NO2-N     NH3-N     ORG-P     DIS-P
ENDATA13A                    DOWNSTREAM BOUNDARY CONCENTRATIONS ARE UNCONSTRAINED
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                                    * * * QUAL-2E  STREAM QUALITY ROUTING MODEL * * *
                                                Version 3.21  -  Feb. 1995

 $$$ (PROBLEM TITLES) $$$

CARD TYPE                              QUAL-2E PROGRAM TITLES
TITLE01              LOWER OUACHITA RIVER JULY PROJECTION - STEADY STATE WQ RUN
TITLE02              WITHOUT LOAD REDUCTION
TITLE03  NO          CONSERVATIVE MINERAL I
TITLE04  NO          CONSERVATIVE MINERAL II
TITLE05  NO          CONSERVATIVE MINERAL III
TITLE06  YES         TEMPERATURE
TITLE07  YES         BIOCHEMICAL OXYGEN DEMAND
TITLE08  YES         ALGAE AS CHL-A IN UG/L
TITLE09  YES         PHOSPHORUS CYCLE AS P IN MG/L
TITLE10                (ORGANIC-P; DISSOLVED-P)
TITLE11  YES         NITROGEN CYCLE AS N IN MG/L
TITLE12                (ORGANIC-N; AMMONIA-N; NITRITE-N;' NITRATE-N)
TITLE13  YES         DISSOLVED OXYGEN IN MG/L
TITLE14  NO          FECAL COLIFORM IN NO./100 ML
TITLE15  NO          ARBITRARY NON-CONSERVATIVE
ENDTITLE

 $$$ DATA TYPE 1 (CONTROL DATA) $$$

CARD TYPE                                    CARD TYPE
LIST DATA INPUT             0.00000                                     0.00000
WRITE OPTIONAL SUMMARY      0.00000                                     0.00000
NO FLOW AUGMENTATION        0.00000                                     0.00000
STEADY STATE                0.00000                                     0.00000
NO TRAP CHANNELS            0.00000                                     0.00000
NO PRINT LCD/SOLAR DATA     0.00000                                     0.00000
NO PLOT DO AND BOD DATA     0.00000                                     0.00000
FIXED DNSTM CONC (YES=1)=   0.00000          5D-ULT BOD CONV K COEF  =   0.23000
INPUT METRIC            =   0.00000          OUTPUT METRIC           =   0.00000
NUMBER OF REACHES       =  17.00000          NUMBER OF JUNCTIONS     =   0.00000
NUM OF HEADWATERS       =   1.00000          NUMBER OF POINT LOADS   =  17.00000
TIME STEP (HOURS)       =   1.00000          LNTH. COMP. ELEMENT (DX)=   0.25000
MAXIMUM ROUTE TIME (HRS)= 450.00000          TIME INC. FOR RPT2 (HRS)=   3.00000
LATITUDE OF BASIN (DEG) =  32.50000          LONGITUDE OF BASIN (DEG)=  92.00000
STANDARD MARIDIAN (DEG) =  90.00000          DAY OF YEAR START TIME  = 197.00000
EVAP. COEF.,(AE)        =   0.00066          EVAP. COEF.,(BE)        =   0.00027
ELEV. OF BASIN (ELEV)   =  54.00000          DUST ATTENUATION COEF.  =   0.13000
ENDATA1                     0.00000                                     0.00000

 $$$ DATA TYPE 1A (ALGAE PRODUCTION AND NITROGEN OXIDATION CONSTANTS) $$$

CARD TYPE                                          CARD TYPE
O UPTAKE BY NH3 OXID(MG O/MG N)=    3.4300         O UPTAKE BY NO2 OXID(MG O/MG N)=    1.1400
O PROD  BY ALGAE (MG O/MG A)   =    1.8000         O UPTAKE BY ALGAE (MG O/MG A)  =    2.3000
N CONTENT OF ALGAE (MG N/MG A) =    0.0900         P CONTENT OF ALGAE (MG O/MG A) =    0.0150
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ALG MAX SPEC GROWTH RATE(1/DAY)=    2.1000          ALGAE RESPIRATION RATE (1/DAY) =    0.0500
N HALF SATURATION CONST (MG/L) =    0.2000          P HALF SATURATION CONST (MG/L) =    0.0400
LIN ALG SHADE CO (1/FT-UGCHA/L=)    0.0027          NLIN SHADE(1/FT-(UGCHA/L)**2/3)=    0.0165
LIGHT FUNCTION OPTION (LFNOPT) =    1.0000          LIGHT SAT'N COEF (BTU/FT2-MIN) =    0.0660
DAILY AVERAGING OPTION (LAVOPT)=    3.0000          LIGHT AVERAGING FACTOR (AFACT) =    0.9200
NUMBER OF DAYLIGHT HOURS (DLH) =   14.0000          TOTAL DAILY SOLR RAD (BTU/FT-2)= 1300.0000
ALGY GROWTH CALC OPTION(LGROPT)=    1.0000          ALGAL PREF FOR NH3-N (PREFN)   =    0.5000
ALG/TEMP SOLR RAD FACTOR(TFACT)=    0.4400          NITRIFICATION INHIBITION COEF  =    0.6000
ENDATA1A                            0.0000                                              0.0000

 $$$ DATA TYPE 1B (TEMPERATURE CORRECTION CONSTANTS FOR RATE COEFFICIENTS) $$$

CARD TYPE     RATE CODE     THETA VALUE

THETA( 1)      BOD DECA        1.047     USER
THETA( 2)      BOD SETT        1.024     USER
THETA( 3)      OXY TRAN        1.024     USER
THETA( 4)      SOD RATE        1.065     USER
THETA( 5)      ORGN DEC        1.047     USER
THETA( 6)      ORGN SET        1.024     USER
THETA( 7)      NH3 DECA        1.070     USER
THETA( 8)      NH3 SRCE        1.074     USER
THETA( 9)      NO2 DECA        1.047     USER
THETA(10)      PORG DEC        1.047     USER
THETA(11)      PORG SET        1.024     USER
THETA(12)      DISP SRC        1.074     USER
THETA(13)      ALG GROW        1.047     USER
THETA(14)      ALG RESP        1.047     USER
THETA(15)      ALG SETT        1.024     USER
THETA(16)      COLI DEC        1.047     DFLT
THETA(17)      ANC DECA        1.000     DFLT
THETA(18)      ANC SETT        1.024     DFLT
THETA(19)      ANC SRCE        1.000     DFLT
ENDATA1B

 $$$ DATA TYPE 2 (REACH IDENTIFICATION) $$$

CARD TYPE           REACH ORDER AND IDENT              R. MI/KM           R. MI/KM
STREAM REACH     1.0  RCH=        REACH 1    FROM        200.4    TO         195.4
STREAM REACH     2.0  RCH=        REACH 2    FROM        195.4    TO         190.4
STREAM REACH     3.0  RCH=        REACH 3    FROM        190.4    TO         185.4
STREAM REACH     4.0  RCH=        REACH 4    FROM        185.4    TO         180.4
STREAM REACH     5.0  RCH=        REACH 5    FROM        180.4    TO         175.4
STREAM REACH     6.0  RCH=        REACH 6    FROM        175.4    TO         170.4
STREAM REACH     7.0  RCH=        REACH 7    FROM        170.4    TO         165.4
STREAM REACH     8.0  RCH=        REACH 8    FROM        165.4    TO         160.4
STREAM REACH     9.0  RCH=        REACH 9    FROM        160.4    TO         155.4
STREAM REACH    10.0  RCH=        REACH 10   FROM        155.4    TO         150.4
STREAM REACH    11.0  RCH=        REACH 11   FROM        150.4    TO         145.4
STREAM REACH    12.0  RCH=        REACH 12   FROM        145.4    TO         140.4
STREAM REACH    13.0  RCH=        REACH 13   FROM        140.4    TO         135.4
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STREAM REACH    14.0  RCH=        REACH 14   FROM        135.4    TO         130.4
STREAM REACH    15.0  RCH=        REACH 15   FROM        130.4    TO         125.4
STREAM REACH    16.0  RCH=        REACH 16   FROM        125.4    TO         120.4
STREAM REACH    17.0  RCH=        REACH 17   FROM        120.4    TO         117.4
ENDATA2          0.0                                     0.0                  0.0

 $$$ DATA TYPE 3 (TARGET LEVEL DO AND FLOW AUGMENTATION SOURCES) $$$

CARD TYPE                  REACH  AVAIL HDWS TARGET     ORDER OF AVAIL SOURCES
ENDATA3                     0.        0.       0.0   0.   0.   0.   0.   0.   0.

 $$$ DATA TYPE 4 (COMPUTATIONAL REACH FLAG FIELD) $$$

CARD TYPE        REACH ELEMENTS/REACH             COMPUTATIONAL FLAGS
FLAG FIELD        1.       20.          1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        2.       20.          2.2.2.2.2.2.2.6.7.6.7.6.2.2.6.2.6.2.2.2.
FLAG FIELD        3.       20.          2.2.2.2.6.2.2.2.2.6.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        4.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        5.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        6.       20.          2.2.2.2.2.2.2.2.2.2.6.2.2.2.2.6.2.2.2.2.
FLAG FIELD        7.       20.          2.2.2.7.6.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        8.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.6.2.2.
FLAG FIELD        9.       20.          2.2.2.6.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       10.       20.          2.2.2.2.2.2.2.6.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       11.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       12.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       13.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       14.       20.          2.2.2.2.2.2.2.6.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       15.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       16.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       17.       12.          2.2.2.2.2.2.2.2.2.2.5.0.0.0.0.0.0.0.0.0.
ENDATA4           0.        0.          0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.

 $$$ DATA TYPE 5 (HYDRAULIC DATA FOR DETERMINING VELOCITY AND DEPTH) $$$

CARD TYPE        REACH  COEF-DSPN  COEFQV    EXPOQV    COEFQH   EXPOQH     CMANN
HYDRAULICS        1.      30.00     0.000     0.979    14.000     0.016     0.035
HYDRAULICS        2.      30.00     0.000     0.984    13.300     0.014     0.035
HYDRAULICS        3.      30.00     0.000     0.979    12.400     0.012     0.035
HYDRAULICS        4.      30.00     0.000     0.982    16.100     0.015     0.035
HYDRAULICS        5.      30.00     0.000     0.986    21.200     0.009     0.035
HYDRAULICS        6.      30.00     0.000     0.992    21.700     0.005     0.035
HYDRAULICS        7.      30.00     0.000     0.993    21.700     0.003     0.035
HYDRAULICS        8.      30.00     0.000     0.995    21.600     0.003     0.035
HYDRAULICS        9.      30.00     0.000     0.996    21.600     0.001     0.035
HYDRAULICS       10.      30.00     0.000     0.996    21.100     0.002     0.035
HYDRAULICS       11.      30.00     0.000     0.997    20.900     0.002     0.035
HYDRAULICS       12.      30.00     0.000     0.998    26.500     0.001     0.035
HYDRAULICS       13.      30.00     0.000     0.998    32.300     0.001     0.035
HYDRAULICS       14.      30.00     0.000     0.999    29.800     0.001     0.035
HYDRAULICS       15.      30.00     0.000     0.999    27.300     0.000     0.035
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HYDRAULICS       16.     30.00     0.000     0.999    24.700     0.000     0.035
HYDRAULICS       17.     30.00     0.000     1.000    22.500     0.000     0.035
ENDATA5           0.      0.00     0.000     0.000     0.000     0.000     0.000

 $$$ DATA TYPE 5A (STEADY STATE TEMPERATURE AND CLIMATOLOGY DATA) $$$

CARD TYPE                          DUST     CLOUD   DRY BULB  WET BULB     ATM              SOLAR RAD
                REACH   ELEVATION  COEF     COVER     TEMP      TEMP    PRESSURE     WIND   ATTENUATION
TEMP/LCD          1.       54.00   0.13      0.20     82.30     74.10      30.00     7.24      1.00
TEMP/LCD          2.       54.00   0.13      0.20     82.30     74.10      30.00     7.24      1.00
TEMP/LCD          3.       54.00   0.13      0.20     82.30     74.10      30.00     7.24      1.00
TEMP/LCD          4.       54.00   0.13      0.20     82.30     74.10      30.00     7.24      1.00
TEMP/LCD          5.       54.00   0.13      0.20     82.30     74.10      30.00     7.24      1.00
TEMP/LCD          6.       54.00   0.13      0.20     82.30     74.10      30.00     7.24      1.00
TEMP/LCD          7.       54.00   0.13      0.20     82.30     74.10      30.00     7.24      1.00
TEMP/LCD          8.       54.00   0.13      0.20     82.30     74.10      30.00     7.24      1.00
TEMP/LCD          9.       54.00   0.13      0.20     82.30     74.10      30.00     7.24      1.00
TEMP/LCD         10.       54.00   0.13      0.20     82.30     74.10      30.00     7.24      1.00
TEMP/LCD         11.       54.00   0.13      0.20     82.30     74.10      30.00     7.24      1.00
TEMP/LCD         12.       54.00   0.13      0.20     82.30     74.10      30.00     7.24      1.00
TEMP/LCD         13.       54.00   0.13      0.20     82.30     74.10      30.00     7.24      1.00
TEMP/LCD         14.       54.00   0.13      0.20     82.30     74.10      30.00     7.24      1.00
TEMP/LCD         15.       54.00   0.13      0.20     82.30     74.10      30.00     7.24      1.00
TEMP/LCD         16.       54.00   0.13      0.20     82.30     74.10      30.00     7.24      1.00
TEMP/LCD         17.       54.00   0.13      0.20     82.30     74.10      30.00     7.24      1.00
ENDATA5A          0.        0.00   0.00      0.00      0.00      0.00       0.00     0.00      0.00

 $$$ DATA TYPE 6 (REACTION COEFFICIENTS FOR DEOXYGENATION AND REAERATION) $$$

CARD TYPE        REACH     K1        K3        SOD         K2OPT     K2      COEQK2    OR   EXPQK2
                                               RATE                        TSIV COEF  OR    SLOPE
                                                                           FOR OPT 8       FOR OPT 8
REACT COEF         1.      0.03      0.00      0.000         1.      0.20      0.000         0.00000
REACT COEF         2.      0.03      0.00      0.000         1.      0.22      0.000         0.00000
REACT COEF         3.      0.03      0.00      0.000         1.      0.24      0.000         0.00000
REACT COEF         4.      0.03      0.00      0.000         1.      0.18      0.000         0.00000
REACT COEF         5.      0.03      0.00      0.000         1.      0.14      0.000         0.00000
REACT COEF         6.      0.03      0.00      0.000         1.      0.14      0.000         0.00000
REACT COEF         7.      0.03      0.00      0.011         1.      0.14      0.000         0.00000
REACT COEF         8.      0.03      0.00      0.011         1.      0.14      0.000         0.00000
REACT COEF         9.      0.03      0.00      0.011         1.      0.15      0.000         0.00000
REACT COEF        10.      0.03      0.00      0.011         1.      0.15      0.000         0.00000
REACT COEF        11.      0.03      0.00      0.011         1.      0.15      0.000         0.00000
REACT COEF        12.      0.03      0.00      0.011         1.      0.12      0.000         0.00000
REACT COEF        13.      0.03      0.00      0.011         1.      0.10      0.000         0.00000
REACT COEF        14.      0.03      0.00      0.011         1.      0.11      0.000         0.00000
REACT COEF        15.      0.03      0.00      0.011         1.      0.12      0.000         0.00000
REACT COEF        16.      0.03      0.00      0.011         1.      0.13      0.000         0.00000
REACT COEF        17.      0.03      0.00      0.011         1.      0.14      0.000         0.00000
ENDATA6           0.      0.00      0.00      0.000         0.      0.00      0.000         0.00000
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$$$ DATA TYPE 6A (NITROGEN AND PHOSPHORUS CONSTANTS) $$$

CARD TYPE	REACH	CKNH2	SETNH2	CKNH3	SNH3	CKNO2	CKPORG	SETPORG	SPO4
N AND P COEF	1.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	2.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	3.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	4.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	5.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	6.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	7.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	8.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	9.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	10.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	11.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	12.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	13.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	14.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	15.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	16.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	17.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
ENDATA6A	0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 6B (ALGAE/OTHER COEFFICIENTS) $$$

CARD TYPE	REACH	ALPHAO	ALGSET	EXCOEF	CK5 CKCOLI	CKANC	SETANC	SRCANC
ALG/OTHER COEF	1.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ALG/OTHER COEF	2.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ALG/OTHER COEF	3.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	4.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	5.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	6.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	7.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	8.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	9.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	10.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	11.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	12.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	13.	50.00	0.05	0.82	0.00	0.00	0.00	0.00
ALG/OTHER COEF	14.	50.00	0.05	0.82	0.00	0.00	0.00	0.00
ALG/OTHER COEF	15.	50.00	0.05	0.82	0.00	0.00	0.00	0.00
ALG/OTHER COEF	16.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ALG/OTHER COEF	17.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ENDATA6B	0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 7 (INITIAL CONDITIONS) $$$

CARD TYPE	REACH	TEMP	D.O.	BOD	CM-1	CM-2	CM-3	ANC	COLI
INITIAL COND-1	1.	88.10	3.00	5.00	0.00	0.00	0.00	0.00	0.00
INITIAL COND-1	2.	88.10	3.00	5.00	0.00	0.00	0.00	0.00	0.00
INITIAL COND-1	3.	88.10	3.00	5.00	0.00	0.00	0.00	0.00	0.00

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INITIAL COND-1        4.     88.10      3.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        5.     88.10      3.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        6.     88.10      3.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        7.     88.10      3.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        8.     88.10      3.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        9.     88.10      3.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       10.     88.10      3.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       11.     88.10      3.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       12.     88.10      3.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       13.     88.10      3.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       14.     88.10      3.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       15.     88.10      3.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       16.     88.10      3.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       17.     88.10      3.00      5.00      0.00      0.00      0.00      0.00      0.00
ENDATA7               0.      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 7A (INITIAL CONDITIONS FOR CHOROPHYLL A, NITROGEN, AND PHOSPHORUS) $$$

CARD TYPE          REACH     CHL-A     ORG-N     NH3-N     NO2-N     NO3-N     ORG-P     DIS-P
INITIAL COND-2       1.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2       2.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2       3.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2       4.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2       5.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2       6.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2       7.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2       8.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2       9.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2      10.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2      11.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2      12.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2      13.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2      14.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2      15.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2      16.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2      17.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
ENDATA7A             0.      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 8 (INCREMENTAL INFLOW CONDITIONS) $$$

CARD TYPE          REACH      FLOW      TEMP      D.O.       BOD      CM-1      CM-2      CM-3       ANC      COLI
INCR INFLOW-1        1.     3.000     88.10      3.00      0.00      0.00      0.00      0.00      0.00      0.08
INCR INFLOW-1        2.     3.000     88.10      3.00      0.00      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        3.     3.000     88.10      3.00    370.40      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        4.     3.000     88.10      3.00    740.70      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        5.     3.000     88.10      3.00    833.30      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        6.     3.000     88.10      3.00    740.70      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        7.     3.000     88.10      3.00    555.60      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        8.     3.000     88.10      3.00    555.60      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        9.     3.000     88.10      3.00    555.60      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1       10.     3.000     88.10      3.00    555.60      0.00      0.00      0.00      0.00      0.00
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INCR INFLOW-1        11.     3.000     88.10      3.00    468.50      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        12.     3.000     88.10      3.00    468.50      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        13.     3.000     88.10      3.00    451.50      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        14.     3.000     88.10      3.00    408.90      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        15.     3.000     88.10      3.00    366.30      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        16.     3.000     88.10      3.00    323.70      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        17.     3.000     88.10      3.00    281.10      0.00      0.00      0.00      0.00      0.00
ENDATA8               0.     0.000      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 8A (INCREMENTAL INFLOW CONDITIONS FOR CHLOROPHYLL A, NITROGEN, AND PHOSPHORUS) $$$

CARD TYPE           REACH    CHL-A     ORG-N     NH3-N     NO2-N     NO3-N     ORG-P     DIS-P
INCR INFLOW-2         1.      0.00      0.00      0.00      0.00      0.00      0.74      0.00
INCR INFLOW-2         2.      0.00      0.00      0.00      0.00      0.00     12.96      0.00
INCR INFLOW-2         3.      0.00      0.00      0.00      0.00      0.00     25.93      0.00
INCR INFLOW-2         4.      0.00      0.00      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         5.      0.00      0.00      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         6.      0.00     22.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         7.      0.00     22.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         8.      0.00     22.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         9.      0.00     22.20      0.00      0.00      0.00      3.70      0.00
INCR INFLOW-2        10.      0.00     22.20      0.00      0.00      0.00      5.56      0.00
INCR INFLOW-2        11.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        12.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        13.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        14.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        15.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        16.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        17.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
ENDATA8A              0.      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 9 (STREAM JUNCTIONS) $$$

CARD TYPE              JUNCTION ORDER AND IDENT         UPSTRM   JUNCTION    TRIB
ENDATA9                0.                                 0.        0.        0.

 $$$ DATA TYPE 10 (HEADWATER SOURCES) $$$

CARD TYPE    HDWTR     NAME              FLOW      TEMP      D.O.       BOD      CM-1      CM-2      CM-3
             ORDER
HEADWTR-1      1.          REACH 1     894.00     89.10      5.90      5.60      0.00      0.00      0.00
ENDATA10       0.                        0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 10A (HEADWATER CONDITIONS FOR CHLOROPHYLL, NITROGEN, PHOSPHORUS,
                    COLIFORM AND SELECTED NON-CONSERVATIVE CONSTITUENT) $$$

CARD TYPE     HDWTR     ANC      COLI     CHL-A     ORG-N     NH3-N     NO2-N     NO3-N     ORG-P     DIS-P
              ORDER
HEADWTR-2       1.     0.00      0.00     13.80      0.72      0.03      0.02      0.17      0.04      0.02
ENDATA10A       0.     0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
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$$$ DATA TYPE 11 (POINT SOURCE / POINT SOURCE CHARACTERISTICS) $$$

CARD TYPE	POINT LOAD ORDER	NAME	EFF	FLOW	TEMP	D.O.	BOD	CM-1	CM-2	CM-3
POINTLD-1	1.	BARTHOLOMEW	0.00	74.00	83.70	6.20	8.10	0.00	0.00	0.00
POINTLD-1	2.	OUCH POW IN	0.00	-10.62	74.10	0.00	0.00	0.00	0.00	0.00
POINTLD-1	3.	OUCH POW OUT	0.00	2.40	99.00	6.00	5.00	0.00	0.00	0.00
POINTLD-1	4.	ENT STER IN	0.00	-307.54	74.10	0.00	0.00	0.00	0.00	0.00
POINTLD-1	5.	ENT STER OUT	0.00	307.54	112.00	5.70	5.00	0.00	0.00	0.00
POINTLD-1	6.	STERLINGTON	0.00	0.29	86.00	2.00	69.00	0.00	0.00	0.00
POINTLD-1	7.	KOCH OO1	0.00	4.82	86.00	2.00	10.70	0.00	0.00	0.00
POINTLD-1	8.	ANGUS 002	0.00	1.45	86.00	2.00	106.00	0.00	0.00	0.00
POINTLD-1	9.	B DE L'OUTRE	0.00	3.90	86.90	6.00	5.60	0.00	0.00	0.00
POINTLD-1	10.	B D'ARBONNE	0.00	0.10	84.40	6.10	5.60	0.00	0.00	0.00
POINTLD-1	11.	CHAUVIN B	0.00	2.40	83.70	6.20	23.00	0.00	0.00	0.00
POINTLD-1	12.	ENT MON IN	0.00	-224.30	75.10	0.00	0.00	0.00	0.00	0.00
POINTLD-1	13.	ENT MON OUT	0.00	224.30	106.00	4.63	7.00	0.00	0.00	0.00
POINTLD-1	14.	JUDY SLOUGH	0.00	31.34	84.70	2.00	86.40	0.00	0.00	0.00
POINTLD-1	15.	MONROE POTW	0.00	23.21	86.00	2.00	23.00	0.00	0.00	0.00
POINTLD-1	16.	CHENERE CR	0.00	0.50	84.70	6.10	12.10	0.00	0.00	0.00
POINTLD-1	17.	CYPRESS CR	0.00	0.00	86.00	0.00	0.00	0.00	0.00	0.00
ENDATA11	0.		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 11A (POINT SOURCE CHARACTERISTICS - CHLOROPHYLL A, NITROGEN, PHOSPHORUS, COLIFORMS AND SELECTED NON-CONSERVATIVE CONSTITUENT) $$$

CARD TYPE	POINT LOAD ORDER	ANC	COLI	CHL-A	ORG-N	NH3-N	NO2-N	N03-N	ORG-P	DIS-P
POINTLD-2	1.	0.00	0.00	17.40	0.70	0.02	0.02	0.22	0.21	0.03
POINTLD-2	2.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POINTLD-2	3.	0.00	0.00	0.00	0.70	0.03	0.02	0.16	0.08	0.02
POINTLD-2	4.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POINTLD-2	5.	0.00	0.00	0.00	0.70	0.03	0.02	0.20	0.10	0.02
POINTLD-2	6.	0.00	0.00	100.00	10.00	5.00	0.00	0.70	2.50	1.00
POINTLD-2	7.	0.00	0.00	0.00	0.76	16.50	0.00	0.58	0.24	0.15
POINTLD-2	8.	0.00	0.00	0.00	8.32	0.31	0.00	34.33	0.33	0.01
POINTLD-2	9.	0.00	0.00	13.30	0.81	0.02	0.02	0.08	0.08	0.01
POINTLD-2	10.	0.00	0.00	13.30	0.71	0.02	0.02	0.07	0.06	0.01
POINTLD-2	11.	0.00	0.00	29.30	1.88	1.24	0.02	0.22	0.41	0.63
POINTLD-2	12.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POINTLD-2	13.	0.00	0.00	0.00	0.67	0.04	0.04	0.30	0.15	0.03
POINTLD-2	14.	0.00	0.00	12.20	2.98	1.50	0.00	0.12	0.69	0.70
POINTLD-2	15.	0.00	0.00	0.00	0.67	1.33	0.00	6.36	0.95	0.29
POINTLD-2	16.	0.00	0.00	13.30	0.81	0.02	0.00	0.03	0.06	0.01
POINTLD-2	17.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENDATA11A	0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 12 (DAM CHARACTERISTICS) $$$

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                      DAM   RCH   ELE    ADAM    BDAM    FDAM    HDAM
ENDATA12                0.    0.    0.    0.00    0.00    0.00    0.00
 $$$ DATA TYPE 13 (DOWNSTREAM BOUNDARY CONDITIONS-1) $$$
     CARD TYPE               TEMP       D.O.      BOD       CM-1      CM-2      CM-3       ANC      COLI
ENDATA13                     DOWNSTREAM BOUNDARY CONCENTRATIONS ARE UNCONSTRAINED
 $$$ DATA TYPE 13A (DOWNSTREAM BOUNDARY CONDITIONS-2) $$$
     CARD TYPE               CHL-A     ORG-N     NH3-N     NO2-N     NH3-N     ORG-P     DIS-P
ENDATA13A                    DOWNSTREAM BOUNDARY CONCENTRATIONS ARE UNCONSTRAINED
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                                    * * * QUAL-2E  STREAM QUALITY ROUTING MODEL * * *
                                                 Version 3.21  -  Feb. 1995

 $$$ (PROBLEM TITLES) $$$

CARD TYPE                              QUAL-2E PROGRAM TITLES
TITLE01              LOWER OUACHITA RIVER AUGUST PROJECTION - STEADY STATE WQ
TITLE02              RUN WITHOUT LOAD REDUCTION
TITLE03  NO          CONSERVATIVE MINERAL I
TITLE04  NO          CONSERVATIVE MINERAL II
TITLE05  NO          CONSERVATIVE MINERAL III
TITLE06  YES         TEMPERATURE
TITLE07  YES         BIOCHEMICAL OXYGEN DEMAND
TITLE08  YES         ALGAE AS CHL-A IN UG/L
TITLE09  YES         PHOSPHORUS CYCLE AS P IN MG/L
TITLE10                (ORGANIC-P; DISSOLVED-P)
TITLE11  YES         NITROGEN CYCLE AS N IN MG/L
TITLE12                (ORGANIC-N; AMMONIA-N; NITRITE-N;' NITRATE-N)
TITLE13  YES         DISSOLVED OXYGEN IN MG/L
TITLE14  NO          FECAL COLIFORM IN NO./100 ML
TITLE15  NO          ARBITRARY NON-CONSERVATIVE
ENDTITLE

 $$$ DATA TYPE 1 (CONTROL DATA) $$$

CARD TYPE                                    CARD TYPE
LIST DATA INPUT             0.00000                                     0.00000
WRITE OPTIONAL SUMMARY      0.00000                                     0.00000
NO FLOW AUGMENTATION        0.00000                                     0.00000
STEADY STATE                0.00000                                     0.00000
NO TRAP CHANNELS            0.00000                                     0.00000
NO PRINT LCD/SOLAR DATA     0.00000                                     0.00000
NO PLOT DO AND BOD DATA     0.00000                                     0.00000
FIXED DNSTM CONC (YES=1)=   0.00000          5D-ULT BOD CONV K COEF  =   0.23000
INPUT METRIC            =   0.00000          OUTPUT METRIC           =   0.00000
NUMBER OF REACHES       =  17.00000          NUMBER OF JUNCTIONS     =   0.00000
NUM OF HEADWATERS       =   1.00000          NUMBER OF POINT LOADS   =  17.00000
TIME STEP (HOURS)       =   1.00000          LNTH. COMP. ELEMENT (DX)=   0.25000
MAXIMUM ROUTE TIME (HRS)= 450.00000          TIME INC. FOR RPT2 (HRS)=   3.00000
LATITUDE OF BASIN (DEG) =  32.50000          LONGITUDE OF BASIN (DEG)=  92.00000
STANDARD MARIDIAN (DEG) =  90.00000          DAY OF YEAR START TIME  = 228.00000
EVAP. COEF.,(AE)        =   0.00042          EVAP. COEF.,(BE)        =   0.00021
ELEV. OF BASIN (ELEV)   =  54.00000          DUST ATTENUATION COEF.  =   0.13000
ENDATA1                     0.00000                                     0.00000

 $$$ DATA TYPE 1A (ALGAE PRODUCTION AND NITROGEN OXIDATION CONSTANTS) $$$

CARD TYPE                                          CARD TYPE
O UPTAKE BY NH3 OXID(MG O/MG N)=    3.4300         O UPTAKE BY NO2 OXID(MG O/MG N)=    1.1400
O PROD  BY ALGAE (MG O/MG A)   =    1.8000         O UPTAKE BY ALGAE (MG O/MG A)  =    2.3000
N CONTENT OF ALGAE (MG N/MG A) =    0.0900         P CONTENT OF ALGAE (MG O/MG A) =    0.0150
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ALG MAX SPEC GROWTH RATE(1/DAY)=    2.1000          ALGAE RESPIRATION RATE (1/DAY) =    0.0500
N HALF SATURATION CONST (MG/L) =    0.2000          P HALF SATURATION CONST (MG/L) =    0.0400
LIN ALG SHADE CO (1/FT-UGCHA/L=)    0.0027          NLIN SHADE(1/FT-(UGCHA/L)**2/3)=    0.0165
LIGHT FUNCTION OPTION (LFNOPT) =    1.0000          LIGHT SAT'N COEF (BTU/FT2-MIN) =    0.0660
DAILY AVERAGING OPTION (LAVOPT)=    3.0000          LIGHT AVERAGING FACTOR (AFACT) =    0.9200
NUMBER OF DAYLIGHT HOURS (DLH) =   14.0000          TOTAL DAILY SOLR RAD (BTU/FT-2)= 1300.0000
ALGY GROWTH CALC OPTION(LGROPT)=    1.0000          ALGAL PREF FOR NH3-N (PREFN)   =    0.5000
ALG/TEMP SOLR RAD FACTOR(TFACT)=    0.4400          NITRIFICATION INHIBITION COEF  =    0.6000
ENDATA1A                            0.0000                                              0.0000

 $$$ DATA TYPE 1B (TEMPERATURE CORRECTION CONSTANTS FOR RATE COEFFICIENTS) $$$

CARD TYPE     RATE CODE     THETA VALUE

THETA( 1)      BOD DECA        1.047     USER
THETA( 2)      BOD SETT        1.024     USER
THETA( 3)      OXY TRAN        1.024     USER
THETA( 4)      SOD RATE        1.065     USER
THETA( 5)      ORGN DEC        1.047     USER
THETA( 6)      ORGN SET        1.024     USER
THETA( 7)      NH3 DECA        1.070     USER
THETA( 8)      NH3 SRCE        1.074     USER
THETA( 9)      NO2 DECA        1.047     USER
THETA(10)      PORG DEC        1.047     USER
THETA(11)      PORG SET        1.024     USER
THETA(12)      DISP SRC        1.074     USER
THETA(13)      ALG GROW        1.047     USER
THETA(14)      ALG RESP        1.047     USER
THETA(15)      ALG SETT        1.024     USER
THETA(16)      COLI DEC        1.047     DFLT
THETA(17)      ANC DECA        1.000     DFLT
THETA(18)      ANC SETT        1.024     DFLT
THETA(19)      ANC SRCE        1.000     DFLT
ENDATA1B

 $$$ DATA TYPE 2 (REACH IDENTIFICATION) $$$

CARD TYPE           REACH ORDER AND IDENT              R. MI/KM           R. MI/KM
STREAM REACH     1.0  RCH=        REACH 1    FROM        200.4    TO         195.4
STREAM REACH     2.0  RCH=        REACH 2    FROM        195.4    TO         190.4
STREAM REACH     3.0  RCH=        REACH 3    FROM        190.4    TO         185.4
STREAM REACH     4.0  RCH=        REACH 4    FROM        185.4    TO         180.4
STREAM REACH     5.0  RCH=        REACH 5    FROM        180.4    TO         175.4
STREAM REACH     6.0  RCH=        REACH 6    FROM        175.4    TO         170.4
STREAM REACH     7.0  RCH=        REACH 7    FROM        170.4    TO         165.4
STREAM REACH     8.0  RCH=        REACH 8    FROM        165.4    TO         160.4
STREAM REACH     9.0  RCH=        REACH 9    FROM        160.4    TO         155.4
STREAM REACH    10.0  RCH=        REACH 10   FROM        155.4    TO         150.4
STREAM REACH    11.0  RCH=        REACH 11   FROM        150.4    TO         145.4
STREAM REACH    12.0  RCH=        REACH 12   FROM        145.4    TO         140.4
STREAM REACH    13.0  RCH=        REACH 13   FROM        140.4    TO         135.4
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STREAM REACH    14.0  RCH=        REACH 14   FROM        135.4    TO         130.4
STREAM REACH    15.0  RCH=        REACH 15   FROM        130.4    TO         125.4
STREAM REACH    16.0  RCH=        REACH 16   FROM        125.4    TO         120.4
STREAM REACH    17.0  RCH=        REACH 17   FROM        120.4    TO         117.4
ENDATA2          0.0                                      0.0                  0.0

 $$$ DATA TYPE 3 (TARGET LEVEL DO AND FLOW AUGMENTATION SOURCES) $$$

CARD TYPE                  REACH  AVAIL HDWS TARGET     ORDER OF AVAIL SOURCES
ENDATA3                     0.        0.       0.0   0.   0.   0.   0.   0.   0.

 $$$ DATA TYPE 4 (COMPUTATIONAL REACH FLAG FIELD) $$$

CARD TYPE        REACH ELEMENTS/REACH             COMPUTATIONAL FLAGS
FLAG FIELD        1.       20.          1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        2.       20.          2.2.2.2.2.2.2.6.7.6.7.6.2.2.6.2.6.2.2.2.
FLAG FIELD        3.       20.          2.2.2.2.6.2.2.2.2.6.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        4.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        5.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        6.       20.          2.2.2.2.2.2.2.2.2.2.6.2.2.2.2.6.2.2.2.2.
FLAG FIELD        7.       20.          2.2.2.7.6.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        8.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.6.2.2.
FLAG FIELD        9.       20.          2.2.2.6.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       10.       20.          2.2.2.2.2.2.2.6.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       11.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       12.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       13.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       14.       20.          2.2.2.2.2.2.2.6.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       15.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       16.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       17.       12.          2.2.2.2.2.2.2.2.2.2.5.0.0.0.0.0.0.0.0.0.
ENDATA4           0.        0.          0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.

 $$$ DATA TYPE 5 (HYDRAULIC DATA FOR DETERMINING VELOCITY AND DEPTH) $$$

CARD TYPE        REACH  COEF-DSPN  COEFQV    EXPOQV    COEFQH   EXPOQH     CMANN
HYDRAULICS        1.     30.00     0.000     0.979    14.000    0.016      0.035
HYDRAULICS        2.     30.00     0.000     0.984    13.300    0.014      0.035
HYDRAULICS        3.     30.00     0.000     0.979    12.400    0.012      0.035
HYDRAULICS        4.     30.00     0.000     0.982    16.100    0.015      0.035
HYDRAULICS        5.     30.00     0.000     0.986    21.200    0.009      0.035
HYDRAULICS        6.     30.00     0.000     0.992    21.700    0.005      0.035
HYDRAULICS        7.     30.00     0.000     0.993    21.700    0.003      0.035
HYDRAULICS        8.     30.00     0.000     0.995    21.600    0.003      0.035
HYDRAULICS        9.     30.00     0.000     0.996    21.600    0.001      0.035
HYDRAULICS       10.     30.00     0.000     0.996    21.100    0.002      0.035
HYDRAULICS       11.     30.00     0.000     0.997    20.900    0.002      0.035
HYDRAULICS       12.     30.00     0.000     0.998    26.500    0.001      0.035
HYDRAULICS       13.     30.00     0.000     0.998    32.300    0.001      0.035
HYDRAULICS       14.     30.00     0.000     0.999    29.800    0.001      0.035
HYDRAULICS       15.     30.00     0.000     0.999    27.300    0.000      0.035
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HYDRAULICS       16.     30.00     0.000     0.999    24.700     0.000     0.035
HYDRAULICS       17.     30.00     0.000     1.000    22.500     0.000     0.035
ENDATA5           0.      0.00     0.000     0.000     0.000     0.000     0.000

 $$$ DATA TYPE 5A (STEADY STATE TEMPERATURE AND CLIMATOLOGY DATA) $$$

CARD TYPE                          DUST     CLOUD   DRY BULB  WET BULB     ATM              SOLAR RAD
                REACH   ELEVATION  COEF     COVER     TEMP      TEMP    PRESSURE     WIND   ATTENUATION
TEMP/LCD          1.       54.00   0.13      0.20     81.00     71.80     30.00      6.77      1.00
TEMP/LCD          2.       54.00   0.13      0.20     81.00     71.80     30.00      6.77      1.00
TEMP/LCD          3.       54.00   0.13      0.20     81.00     71.80     30.00      6.77      1.00
TEMP/LCD          4.       54.00   0.13      0.20     81.00     71.80     30.00      6.77      1.00
TEMP/LCD          5.       54.00   0.13      0.20     81.00     71.80     30.00      6.77      1.00
TEMP/LCD          6.       54.00   0.13      0.20     81.00     71.80     30.00      6.77      1.00
TEMP/LCD          7.       54.00   0.13      0.20     81.00     71.80     30.00      6.77      1.00
TEMP/LCD          8.       54.00   0.13      0.20     81.00     71.80     30.00      6.77      1.00
TEMP/LCD          9.       54.00   0.13      0.20     81.00     71.80     30.00      6.77      1.00
TEMP/LCD         10.       54.00   0.13      0.20     81.00     71.80     30.00      6.77      1.00
TEMP/LCD         11.       54.00   0.13      0.20     81.00     71.80     30.00      6.77      1.00
TEMP/LCD         12.       54.00   0.13      0.20     81.00     71.80     30.00      6.77      1.00
TEMP/LCD         13.       54.00   0.13      0.20     81.00     71.80     30.00      6.77      1.00
TEMP/LCD         14.       54.00   0.13      0.20     81.00     71.80     30.00      6.77      1.00
TEMP/LCD         15.       54.00   0.13      0.20     81.00     71.80     30.00      6.77      1.00
TEMP/LCD         16.       54.00   0.13      0.20     81.00     71.80     30.00      6.77      1.00
TEMP/LCD         17.       54.00   0.13      0.20     81.00     71.80     30.00      6.77      1.00
ENDATA5A          0.        0.00   0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 6 (REACTION COEFFICIENTS FOR DEOXYGENATION AND REAERATION) $$$

CARD TYPE        REACH     K1        K3       SOD         K2OPT     K2      COEQK2    OR   EXPQK2
                                              RATE                          TSIV COEF  OR    SLOPE
                                                                            FOR OPT 8      FOR OPT 8
REACT COEF         1.      0.03      0.00      0.000        1.      0.20      0.000        0.00000
REACT COEF         2.      0.03      0.00      0.000        1.      0.21      0.000        0.00000
REACT COEF         3.      0.03      0.00      0.000        1.      0.23      0.000        0.00000
REACT COEF         4.      0.03      0.00      0.000        1.      0.17      0.000        0.00000
REACT COEF         5.      0.03      0.00      0.000        1.      0.14      0.000        0.00000
REACT COEF         6.      0.03      0.00      0.000        1.      0.14      0.000        0.00000
REACT COEF         7.      0.03      0.00      0.011        1.      0.14      0.000        0.00000
REACT COEF         8.      0.03      0.00      0.011        1.      0.14      0.000        0.00000
REACT COEF         9.      0.03      0.00      0.011        1.      0.14      0.000        0.00000
REACT COEF        10.      0.03      0.00      0.011        1.      0.14      0.000        0.00000
REACT COEF        11.      0.03      0.00      0.011        1.      0.15      0.000        0.00000
REACT COEF        12.      0.03      0.00      0.011        1.      0.12      0.000        0.00000
REACT COEF        13.      0.03      0.00      0.011        1.      0.09      0.000        0.00000
REACT COEF        14.      0.03      0.00      0.011        1.      0.10      0.000        0.00000
REACT COEF        15.      0.03      0.00      0.011        1.      0.11      0.000        0.00000
REACT COEF        16.      0.03      0.00      0.011        1.      0.13      0.000        0.00000
REACT COEF        17.      0.03      0.00      0.011        1.      0.14      0.000        0.00000
ENDATA6           0.      0.00      0.00      0.000        0.      0.00      0.000        0.00000
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$$$ DATA TYPE 6A (NITROGEN AND PHOSPHORUS CONSTANTS) $$$

CARD TYPE	REACH	CKNH2	SETNH2	CKNH3	SNH3	CKNO2	CKPORG	SETPORG	SPO4
N AND P COEF	1.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	2.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	3.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	4.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	5.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	6.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	7.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	8.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	9.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	10.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	11.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	12.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	13.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	14.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	15.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	16.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	17.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
ENDATA6A	0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 6B (ALGAE/OTHER COEFFICIENTS) $$$

CARD TYPE	REACH	ALPHAO	ALGSET	EXCOEF	CK5 CKCOLI	CKANC	SETANC	SRCANC
ALG/OTHER COEF	1.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ALG/OTHER COEF	2.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ALG/OTHER COEF	3.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	4.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	5.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	6.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	7.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	8.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	9.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	10.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	11.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	12.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	13.	50.00	0.05	0.82	0.00	0.00	0.00	0.00
ALG/OTHER COEF	14.	50.00	0.05	0.82	0.00	0.00	0.00	0.00
ALG/OTHER COEF	15.	50.00	0.05	0.82	0.00	0.00	0.00	0.00
ALG/OTHER COEF	16.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ALG/OTHER COEF	17.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ENDATA6B	0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 7 (INITIAL CONDITIONS) $$$

CARD TYPE	REACH	TEMP	D.O.	BOD	CM-1	CM-2	CM-3	ANC	COLI
INITIAL COND-1	1.	89.30	4.50	5.00	0.00	0.00	0.00	0.00	0.00
INITIAL COND-1	2.	89.30	4.50	5.00	0.00	0.00	0.00	0.00	0.00
INITIAL COND-1	3.	89.30	4.50	5.00	0.00	0.00	0.00	0.00	0.00

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INITIAL COND-1        4.     89.30      4.50      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        5.     89.30      4.50      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        6.     89.30      4.50      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        7.     89.30      4.50      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        8.     89.30      4.50      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        9.     89.30      4.50      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       10.     89.30      4.50      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       11.     89.30      4.50      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       12.     89.30      4.50      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       13.     89.30      4.50      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       14.     89.30      4.50      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       15.     89.30      4.50      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       16.     89.30      4.50      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       17.     89.30      4.50      5.00      0.00      0.00      0.00      0.00      0.00
ENDATA7               0.      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 7A (INITIAL CONDITIONS FOR CHOROPHYLL A, NITROGEN, AND PHOSPHORUS) $$$

CARD TYPE          REACH     CHL-A     ORG-N     NH3-N     NO2-N     NO3-N     ORG-P     DIS-P
INITIAL COND-2       1.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2       2.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2       3.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2       4.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2       5.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2       6.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2       7.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2       8.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2       9.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2      10.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2      11.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2      12.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2      13.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2      14.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2      15.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2      16.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2      17.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
ENDATA7A             0.      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 8 (INCREMENTAL INFLOW CONDITIONS) $$$

CARD TYPE          REACH      FLOW      TEMP      D.O.       BOD      CM-1      CM-2      CM-3       ANC      COLI
INCR INFLOW-1        1.     3.000     89.30      4.50      0.00      0.00      0.00      0.00      0.00      0.08
INCR INFLOW-1        2.     3.000     89.30      4.50      0.00      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        3.     3.000     89.30      4.50    370.40      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        4.     3.000     89.30      4.50    740.70      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        5.     3.000     89.30      4.50    833.30      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        6.     3.000     89.30      4.50    740.70      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        7.     3.000     89.30      4.50    555.60      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        8.     3.000     89.30      4.50    555.60      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        9.     3.000     89.30      4.50    555.60      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1       10.     3.000     89.30      4.50    555.60      0.00      0.00      0.00      0.00      0.00
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INCR INFLOW-1        11.     3.000     89.30      4.50    468.50      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        12.     3.000     89.30      4.50    468.50      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        13.     3.000     89.30      4.50    451.50      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        14.     3.000     89.30      4.50    408.90      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        15.     3.000     89.30      4.50    366.30      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        16.     3.000     89.30      4.50    323.70      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        17.     3.000     89.30      4.50    281.10      0.00      0.00      0.00      0.00      0.00
ENDATA8               0.     0.000      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 8A (INCREMENTAL INFLOW CONDITIONS FOR CHLOROPHYLL A, NITROGEN, AND PHOSPHORUS) $$$

CARD TYPE           REACH    CHL-A     ORG-N     NH3-N     NO2-N     NO3-N     ORG-P     DIS-P
INCR INFLOW-2         1.      0.00      0.00      0.00      0.00      0.00      0.74      0.00
INCR INFLOW-2         2.      0.00      0.00      0.00      0.00      0.00     12.96      0.00
INCR INFLOW-2         3.      0.00      0.00      0.00      0.00      0.00     25.93      0.00
INCR INFLOW-2         4.      0.00      0.00      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         5.      0.00      0.00      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         6.      0.00     22.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         7.      0.00     22.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         8.      0.00     22.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         9.      0.00     22.20      0.00      0.00      0.00      3.70      0.00
INCR INFLOW-2        10.      0.00     22.20      0.00      0.00      0.00      5.56      0.00
INCR INFLOW-2        11.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        12.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        13.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        14.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        15.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        16.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        17.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
ENDATA8A              0.      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 9 (STREAM JUNCTIONS) $$$

CARD TYPE              JUNCTION ORDER AND IDENT         UPSTRM   JUNCTION    TRIB
ENDATA9                0.                                 0.        0.        0.

 $$$ DATA TYPE 10 (HEADWATER SOURCES) $$$

CARD TYPE    HDWTR     NAME              FLOW      TEMP      D.O.       BOD      CM-1      CM-2      CM-3
             ORDER
HEADWTR-1      1.          REACH 1     802.00     91.20      5.80      5.60      0.00      0.00      0.00
ENDATA10       0.                        0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 10A (HEADWATER CONDITIONS FOR CHLOROPHYLL, NITROGEN, PHOSPHORUS,
                    COLIFORM AND SELECTED NON-CONSERVATIVE CONSTITUENT) $$$

CARD TYPE     HDWTR     ANC      COLI     CHL-A     ORG-N     NH3-N     NO2-N     NO3-N     ORG-P     DIS-P
              ORDER
HEADWTR-2       1.     0.00      0.00     13.80      0.72      0.03      0.02      0.17      0.04      0.02
ENDATA10A       0.     0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
```

$$$ DATA TYPE 11 (POINT SOURCE / POINT SOURCE CHARACTERISTICS) $$$

CARD TYPE	POINT LOAD ORDER	NAME	EFF	FLOW	TEMP	D.O.	BOD	CM-1	CM-2	CM-3
POINTLD-1	1.	BARTHOLOMEW	0.00	60.00	84.40	6.10	8.10	0.00	0.00	0.00
POINTLD-1	2.	OUCH POW IN	0.00	-10.62	74.10	0.00	0.00	0.00	0.00	0.00
POINTLD-1	3.	OUCH POW OUT	0.00	2.40	99.00	6.00	5.00	0.00	0.00	0.00
POINTLD-1	4.	ENT STER IN	0.00	-307.54	74.10	0.00	0.00	0.00	0.00	0.00
POINTLD-1	5.	ENT STER OUT	0.00	307.54	112.00	5.60	5.00	0.00	0.00	0.00
POINTLD-1	6.	STERLINGTON	0.00	0.29	86.00	2.00	69.00	0.00	0.00	0.00
POINTLD-1	7.	KOCH OO1	0.00	4.82	86.00	2.00	10.70	0.00	0.00	0.00
POINTLD-1	8.	ANGUS 002	0.00	1.45	86.00	2.00	106.00	0.00	0.00	0.00
POINTLD-1	9.	B DE L'OUTRE	0.00	4.80	86.90	6.00	5.60	0.00	0.00	0.00
POINTLD-1	10.	B D'ARBONNE	0.00	0.00	87.10	6.00	5.60	0.00	0.00	0.00
POINTLD-1	11.	CHAUVIN B	0.00	2.40	84.40	6.10	23.00	0.00	0.00	0.00
POINTLD-1	12.	ENT MON IN	0.00	-224.30	75.10	0.00	0.00	0.00	0.00	0.00
POINTLD-1	13.	ENT MON OUT	0.00	224.30	106.00	4.43	7.00	0.00	0.00	0.00
POINTLD-1	14.	JUDY SLOUGH	0.00	27.96	83.30	2.00	86.40	0.00	0.00	0.00
POINTLD-1	15.	MONROE POTW	0.00	23.21	86.00	2.00	23.00	0.00	0.00	0.00
POINTLD-1	16.	CHENERE CR	0.00	0.50	83.30	6.20	12.10	0.00	0.00	0.00
POINTLD-1	17.	CYPRESS CR	0.00	0.00	86.00	0.00	0.00	0.00	0.00	0.00
ENDATA11	0.		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 11A (POINT SOURCE CHARACTERISTICS - CHLOROPHYLL A, NITROGEN, PHOSPHORUS, COLIFORMS AND SELECTED NON-CONSERVATIVE CONSTITUENT) $$$

CARD TYPE	POINT LOAD ORDER	ANC	COLI	CHL-A	ORG-N	NH3-N	NO2-N	N03-N	ORG-P	DIS-P
POINTLD-2	1.	0.00	0.00	17.40	0.70	0.02	0.02	0.22	0.21	0.03
POINTLD-2	2.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POINTLD-2	3.	0.00	0.00	0.00	0.70	0.03	0.02	0.16	0.08	0.02
POINTLD-2	4.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POINTLD-2	5.	0.00	0.00	0.00	0.70	0.03	0.02	0.20	0.10	0.02
POINTLD-2	6.	0.00	0.00	100.00	10.00	5.00	0.00	0.70	2.50	1.00
POINTLD-2	7.	0.00	0.00	0.00	0.76	16.50	0.00	0.58	0.24	0.15
POINTLD-2	8.	0.00	0.00	0.00	8.32	0.31	0.00	34.33	0.33	0.01
POINTLD-2	9.	0.00	0.00	13.30	0.81	0.02	0.02	0.08	0.08	0.01
POINTLD-2	10.	0.00	0.00	13.30	0.71	0.02	0.02	0.07	0.06	0.01
POINTLD-2	11.	0.00	0.00	29.30	1.88	1.24	0.02	0.22	0.41	0.63
POINTLD-2	12.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POINTLD-2	13.	0.00	0.00	0.00	0.67	0.04	0.04	0.30	0.15	0.03
POINTLD-2	14.	0.00	0.00	12.20	2.98	1.50	0.00	0.12	0.69	0.70
POINTLD-2	15.	0.00	0.00	0.00	0.67	1.33	0.00	6.36	0.95	0.29
POINTLD-2	16.	0.00	0.00	13.30	0.81	0.02	0.00	0.03	0.06	0.01
POINTLD-2	17.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENDATA11A	0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 12 (DAM CHARACTERISTICS) $$$

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                          DAM   RCH   ELE    ADAM    BDAM    FDAM    HDAM
      ENDATA12                0.    0.    0.    0.00    0.00    0.00    0.00
       $$$ DATA TYPE 13 (DOWNSTREAM BOUNDARY CONDITIONS-1) $$$
           CARD TYPE              TEMP       D.O.      BOD       CM-1      CM-2      CM-3       ANC      COLI
      ENDATA13                    DOWNSTREAM BOUNDARY CONCENTRATIONS ARE UNCONSTRAINED
       $$$ DATA TYPE 13A (DOWNSTREAM BOUNDARY CONDITIONS-2) $$$
           CARD TYPE              CHL-A     ORG-N     NH3-N     NO2-N     NH3-N     ORG-P     DIS-P
ENDATA13A           DOWNSTREAM BOUNDARY CONCENTRATIONS ARE UNCONSTRAINED
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                                  * * * QUAL-2E  STREAM QUALITY ROUTING MODEL * * *
                                              Version 3.21  -  Feb. 1995

 $$$ (PROBLEM TITLES) $$$

CARD TYPE                              QUAL-2E PROGRAM TITLES
TITLE01              LOWER OUACHITA RIVER SEPTEMBER PROJECTION - STEADY STATE WQ
TITLE02               RUN WITHOUT LOAD REDUCTION
TITLE03  NO          CONSERVATIVE MINERAL I
TITLE04  NO          CONSERVATIVE MINERAL II
TITLE05  NO          CONSERVATIVE MINERAL III
TITLE06  YES         TEMPERATURE
TITLE07  YES         BIOCHEMICAL OXYGEN DEMAND
TITLE08  YES         ALGAE AS CHL-A IN UG/L
TITLE09  YES         PHOSPHORUS CYCLE AS P IN MG/L
TITLE10                (ORGANIC-P; DISSOLVED-P)
TITLE11  YES         NITROGEN CYCLE AS N IN MG/L
TITLE12                (ORGANIC-N; AMMONIA-N; NITRITE-N;' NITRATE-N)
TITLE13  YES         DISSOLVED OXYGEN IN MG/L
TITLE14  NO          FECAL COLIFORM IN NO./100 ML
TITLE15  NO          ARBITRARY NON-CONSERVATIVE
ENDTITLE

 $$$ DATA TYPE 1 (CONTROL DATA) $$$

CARD TYPE                                    CARD TYPE
LIST DATA INPUT             0.00000                                  0.00000
WRITE OPTIONAL SUMMARY      0.00000                                  0.00000
NO FLOW AUGMENTATION        0.00000                                  0.00000
STEADY STATE                0.00000                                  0.00000
NO TRAP CHANNELS            0.00000                                  0.00000
NO PRINT LCD/SOLAR DATA     0.00000                                  0.00000
NO PLOT DO AND BOD DATA     0.00000                                  0.00000
FIXED DNSTM CONC (YES=1)=   0.00000         5D-ULT BOD CONV K COEF  =   0.23000
INPUT METRIC            =   0.00000         OUTPUT METRIC           =   0.00000
NUMBER OF REACHES       =  17.00000         NUMBER OF JUNCTIONS     =   0.00000
NUM OF HEADWATERS       =   1.00000         NUMBER OF POINT LOADS   =  17.00000
TIME STEP (HOURS)       =   1.00000         LNTH. COMP. ELEMENT (DX)=   0.25000
MAXIMUM ROUTE TIME (HRS)= 450.00000         TIME INC. FOR RPT2 (HRS)=   3.00000
LATITUDE OF BASIN (DEG) =  32.50000         LONGITUDE OF BASIN (DEG)=  92.00000
STANDARD MARIDIAN (DEG) =  90.00000         DAY OF YEAR START TIME  = 258.00000
EVAP. COEF.,(AE)        =   0.00029         EVAP. COEF.,(BE)        =   0.00016
ELEV. OF BASIN (ELEV)   =  54.00000         DUST ATTENUATION COEF.  =   0.13000
ENDATA1                     0.00000                                  0.00000

 $$$ DATA TYPE 1A (ALGAE PRODUCTION AND NITROGEN OXIDATION CONSTANTS) $$$

CARD TYPE                                       CARD TYPE
O UPTAKE BY NH3 OXID(MG O/MG N)=    3.4300      O UPTAKE BY NO2 OXID(MG O/MG N)=    1.1400
O PROD  BY ALGAE (MG O/MG A)   =    1.8000      O UPTAKE BY ALGAE (MG O/MG A)  =    2.3000
N CONTENT OF ALGAE (MG N/MG A) =    0.0900      P CONTENT OF ALGAE (MG O/MG A) =    0.0150
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ALG MAX SPEC GROWTH RATE(1/DAY)=    2.1000          ALGAE RESPIRATION RATE (1/DAY) =    0.0500
N HALF SATURATION CONST (MG/L) =    0.2000          P HALF SATURATION CONST (MG/L) =    0.0400
LIN ALG SHADE CO (1/FT-UGCHA/L=)    0.0027          NLIN SHADE(1/FT-(UGCHA/L)**2/3)=    0.0165
LIGHT FUNCTION OPTION (LFNOPT) =    1.0000          LIGHT SAT'N COEF (BTU/FT2-MIN) =    0.0660
DAILY AVERAGING OPTION (LAVOPT)=    3.0000          LIGHT AVERAGING FACTOR (AFACT) =    0.9200
NUMBER OF DAYLIGHT HOURS (DLH) =   14.0000          TOTAL DAILY SOLR RAD (BTU/FT-2)= 1300.0000
ALGY GROWTH CALC OPTION(LGROPT)=    1.0000          ALGAL PREF FOR NH3-N (PREFN)   =    0.5000
ALG/TEMP SOLR RAD FACTOR(TFACT)=    0.4400          NITRIFICATION INHIBITION COEF  =    0.6000
ENDATA1A                            0.0000                                              0.0000

 $$$ DATA TYPE 1B (TEMPERATURE CORRECTION CONSTANTS FOR RATE COEFFICIENTS) $$$

CARD TYPE     RATE CODE     THETA VALUE

THETA( 1)      BOD DECA        1.047     USER
THETA( 2)      BOD SETT        1.024     USER
THETA( 3)      OXY TRAN        1.024     USER
THETA( 4)      SOD RATE        1.065     USER
THETA( 5)      ORGN DEC        1.047     USER
THETA( 6)      ORGN SET        1.024     USER
THETA( 7)      NH3 DECA        1.070     USER
THETA( 8)      NH3 SRCE        1.074     USER
THETA( 9)      NO2 DECA        1.047     USER
THETA(10)      PORG DEC        1.047     USER
THETA(11)      PORG SET        1.024     USER
THETA(12)      DISP SRC        1.074     USER
THETA(13)      ALG GROW        1.047     USER
THETA(14)      ALG RESP        1.047     USER
THETA(15)      ALG SETT        1.024     USER
THETA(16)      COLI DEC        1.047     DFLT
THETA(17)      ANC DECA        1.000     DFLT
THETA(18)      ANC SETT        1.024     DFLT
THETA(19)      ANC SRCE        1.000     DFLT
ENDATA1B

 $$$ DATA TYPE 2 (REACH IDENTIFICATION) $$$

CARD TYPE           REACH ORDER AND IDENT              R. MI/KM           R. MI/KM
STREAM REACH     1.0  RCH=        REACH 1    FROM        200.4    TO         195.4
STREAM REACH     2.0  RCH=        REACH 2    FROM        195.4    TO         190.4
STREAM REACH     3.0  RCH=        REACH 3    FROM        190.4    TO         185.4
STREAM REACH     4.0  RCH=        REACH 4    FROM        185.4    TO         180.4
STREAM REACH     5.0  RCH=        REACH 5    FROM        180.4    TO         175.4
STREAM REACH     6.0  RCH=        REACH 6    FROM        175.4    TO         170.4
STREAM REACH     7.0  RCH=        REACH 7    FROM        170.4    TO         165.4
STREAM REACH     8.0  RCH=        REACH 8    FROM        165.4    TO         160.4
STREAM REACH     9.0  RCH=        REACH 9    FROM        160.4    TO         155.4
STREAM REACH    10.0  RCH=        REACH 10   FROM        155.4    TO         150.4
STREAM REACH    11.0  RCH=        REACH 11   FROM        150.4    TO         145.4
STREAM REACH    12.0  RCH=        REACH 12   FROM        145.4    TO         140.4
STREAM REACH    13.0  RCH=        REACH 13   FROM        140.4    TO         135.4
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STREAM REACH    14.0  RCH=        REACH 14   FROM        135.4    TO         130.4
STREAM REACH    15.0  RCH=        REACH 15   FROM        130.4    TO         125.4
STREAM REACH    16.0  RCH=        REACH 16   FROM        125.4    TO         120.4
STREAM REACH    17.0  RCH=        REACH 17   FROM        120.4    TO         117.4
ENDATA2          0.0                                     0.0                  0.0

 $$$ DATA TYPE 3 (TARGET LEVEL DO AND FLOW AUGMENTATION SOURCES) $$$

CARD TYPE                  REACH  AVAIL HDWS TARGET     ORDER OF AVAIL SOURCES
ENDATA3                     0.        0.       0.0   0.   0.   0.   0.   0.   0.

 $$$ DATA TYPE 4 (COMPUTATIONAL REACH FLAG FIELD) $$$

CARD TYPE        REACH ELEMENTS/REACH             COMPUTATIONAL FLAGS
FLAG FIELD        1.       20.          1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        2.       20.          2.2.2.2.2.2.2.6.7.6.7.6.2.2.6.2.6.2.2.2.
FLAG FIELD        3.       20.          2.2.2.2.6.2.2.2.2.6.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        4.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        5.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        6.       20.          2.2.2.2.2.2.2.2.2.2.6.2.2.2.2.6.2.2.2.2.
FLAG FIELD        7.       20.          2.2.2.7.6.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        8.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.6.2.2.
FLAG FIELD        9.       20.          2.2.2.6.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       10.       20.          2.2.2.2.2.2.2.6.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       11.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       12.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       13.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       14.       20.          2.2.2.2.2.2.2.6.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       15.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       16.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       17.       12.          2.2.2.2.2.2.2.2.2.2.5.0.0.0.0.0.0.0.0.0.
ENDATA4           0.        0.          0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.

 $$$ DATA TYPE 5 (HYDRAULIC DATA FOR DETERMINING VELOCITY AND DEPTH) $$$

CARD TYPE        REACH  COEF-DSPN  COEFQV    EXPOQV    COEFQH   EXPOQH     CMANN
HYDRAULICS        1.      30.00     0.000     0.979    14.000     0.016     0.035
HYDRAULICS        2.      30.00     0.000     0.984    13.300     0.014     0.035
HYDRAULICS        3.      30.00     0.000     0.979    12.400     0.012     0.035
HYDRAULICS        4.      30.00     0.000     0.982    16.100     0.015     0.035
HYDRAULICS        5.      30.00     0.000     0.986    21.200     0.009     0.035
HYDRAULICS        6.      30.00     0.000     0.992    21.700     0.005     0.035
HYDRAULICS        7.      30.00     0.000     0.993    21.700     0.003     0.035
HYDRAULICS        8.      30.00     0.000     0.995    21.600     0.003     0.035
HYDRAULICS        9.      30.00     0.000     0.996    21.600     0.001     0.035
HYDRAULICS       10.      30.00     0.000     0.996    21.100     0.002     0.035
HYDRAULICS       11.      30.00     0.000     0.997    20.900     0.002     0.035
HYDRAULICS       12.      30.00     0.000     0.998    26.500     0.001     0.035
HYDRAULICS       13.      30.00     0.000     0.998    32.300     0.001     0.035
HYDRAULICS       14.      30.00     0.000     0.999    29.800     0.001     0.035
HYDRAULICS       15.      30.00     0.000     0.999    27.300     0.000     0.035
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HYDRAULICS       16.     30.00     0.000     0.999    24.700     0.000     0.035
HYDRAULICS       17.     30.00     0.000     1.000    22.500     0.000     0.035
ENDATA5           0.      0.00     0.000     0.000     0.000     0.000     0.000

 $$$ DATA TYPE 5A (STEADY STATE TEMPERATURE AND CLIMATOLOGY DATA) $$$

CARD TYPE                          DUST     CLOUD   DRY BULB  WET BULB     ATM              SOLAR RAD
               REACH   ELEVATION    COEF     COVER     TEMP      TEMP    PRESSURE     WIND   ATTENUATION
TEMP/LCD         1.       54.00    0.13      0.20     75.70     67.80     30.00     7.91      1.00
TEMP/LCD         2.       54.00    0.13      0.20     75.70     67.80     30.00     7.91      1.00
TEMP/LCD         3.       54.00    0.13      0.20     75.70     67.80     30.00     7.91      1.00
TEMP/LCD         4.       54.00    0.13      0.20     75.70     67.80     30.00     7.91      1.00
TEMP/LCD         5.       54.00    0.13      0.20     75.70     67.80     30.00     7.91      1.00
TEMP/LCD         6.       54.00    0.13      0.20     75.70     67.80     30.00     7.91      1.00
TEMP/LCD         7.       54.00    0.13      0.20     75.70     67.80     30.00     7.91      1.00
TEMP/LCD         8.       54.00    0.13      0.20     75.70     67.80     30.00     7.91      1.00
TEMP/LCD         9.       54.00    0.13      0.20     75.70     67.80     30.00     7.91      1.00
TEMP/LCD        10.       54.00    0.13      0.20     75.70     67.80     30.00     7.91      1.00
TEMP/LCD        11.       54.00    0.13      0.20     75.70     67.80     30.00     7.91      1.00
TEMP/LCD        12.       54.00    0.13      0.20     75.70     67.80     30.00     7.91      1.00
TEMP/LCD        13.       54.00    0.13      0.20     75.70     67.80     30.00     7.91      1.00
TEMP/LCD        14.       54.00    0.13      0.20     75.70     67.80     30.00     7.91      1.00
TEMP/LCD        15.       54.00    0.13      0.20     75.70     67.80     30.00     7.91      1.00
TEMP/LCD        16.       54.00    0.13      0.20     75.70     67.80     30.00     7.91      1.00
TEMP/LCD        17.       54.00    0.13      0.20     75.70     67.80     30.00     7.91      1.00
ENDATA5A         0.        0.00    0.00      0.00      0.00      0.00      0.00     0.00      0.00

 $$$ DATA TYPE 6 (REACTION COEFFICIENTS FOR DEOXYGENATION AND REAERATION) $$$

CARD TYPE        REACH     K1        K3        SOD          K2OPT     K2      COEQK2    OR   EXPQK2
                                               RATE                           TSIV COEF  OR    SLOPE
                                                                              FOR OPT 8       FOR OPT 8
REACT COEF         1.      0.03      0.00      0.000         1.      0.21       0.000         0.00000
REACT COEF         2.      0.03      0.00      0.000         1.      0.23       0.000         0.00000
REACT COEF         3.      0.03      0.00      0.000         1.      0.25       0.000         0.00000
REACT COEF         4.      0.03      0.00      0.000         1.      0.19       0.000         0.00000
REACT COEF         5.      0.03      0.00      0.000         1.      0.15       0.000         0.00000
REACT COEF         6.      0.03      0.00      0.000         1.      0.15       0.000         0.00000
REACT COEF         7.      0.03      0.00      0.011         1.      0.15       0.000         0.00000
REACT COEF         8.      0.03      0.00      0.011         1.      0.15       0.000         0.00000
REACT COEF         9.      0.03      0.00      0.011         1.      0.15       0.000         0.00000
REACT COEF        10.      0.03      0.00      0.011         1.      0.16       0.000         0.00000
REACT COEF        11.      0.03      0.00      0.011         1.      0.16       0.000         0.00000
REACT COEF        12.      0.03      0.00      0.011         1.      0.12       0.000         0.00000
REACT COEF        13.      0.03      0.00      0.011         1.      0.10       0.000         0.00000
REACT COEF        14.      0.03      0.00      0.011         1.      0.11       0.000         0.00000
REACT COEF        15.      0.03      0.00      0.011         1.      0.12       0.000         0.00000
REACT COEF        16.      0.03      0.00      0.011         1.      0.13       0.000         0.00000
REACT COEF        17.      0.03      0.00      0.011         1.      0.15       0.000         0.00000
ENDATA6            0.      0.00      0.00      0.000         0.      0.00       0.000         0.00000
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$$$ DATA TYPE 6A (NITROGEN AND PHOSPHORUS CONSTANTS) $$$

CARD TYPE	REACH	CKNH2	SETNH2	CKNH3	SNH3	CKNO2	CKPORG	SETPORG	SPO4
N AND P COEF	1.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	2.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	3.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	4.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	5.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	6.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	7.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	8.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	9.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	10.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	11.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	12.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	13.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	14.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	15.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	16.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	17.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
ENDATA6A	0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 6B (ALGAE/OTHER COEFFICIENTS) $$$

CARD TYPE	REACH	ALPHAO	ALGSET	EXCOEF	CK5 CKCOLI	CKANC	SETANC	SRCANC
ALG/OTHER COEF	1.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ALG/OTHER COEF	2.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ALG/OTHER COEF	3.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	4.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	5.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	6.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	7.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	8.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	9.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	10.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	11.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	12.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	13.	50.00	0.05	0.82	0.00	0.00	0.00	0.00
ALG/OTHER COEF	14.	50.00	0.05	0.82	0.00	0.00	0.00	0.00
ALG/OTHER COEF	15.	50.00	0.05	0.82	0.00	0.00	0.00	0.00
ALG/OTHER COEF	16.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ALG/OTHER COEF	17.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ENDATA6B	0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 7 (INITIAL CONDITIONS) $$$

CARD TYPE	REACH	TEMP	D.O.	BOD	CM-1	CM-2	CM-3	ANC	COLI
INITIAL COND-1	1.	85.50	5.00	5.00	0.00	0.00	0.00	0.00	0.00
INITIAL COND-1	2.	85.50	5.00	5.00	0.00	0.00	0.00	0.00	0.00
INITIAL COND-1	3.	85.50	5.00	5.00	0.00	0.00	0.00	0.00	0.00

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INITIAL COND-1        4.     85.50      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        5.     85.50      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        6.     85.50      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        7.     85.50      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        8.     85.50      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        9.     85.50      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       10.     85.50      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       11.     85.50      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       12.     85.50      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       13.     85.50      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       14.     85.50      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       15.     85.50      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       16.     85.50      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       17.     85.50      5.00      5.00      0.00      0.00      0.00      0.00      0.00
ENDATA7               0.      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 7A (INITIAL CONDITIONS FOR CHOROPHYLL A, NITROGEN, AND PHOSPHORUS) $$$

CARD TYPE           REACH     CHL-A     ORG-N     NH3-N     NO2-N     NO3-N     ORG-P     DIS-P
INITIAL COND-2        1.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2        2.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2        3.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2        4.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2        5.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2        6.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2        7.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2        8.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2        9.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2       10.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2       11.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2       12.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2       13.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2       14.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2       15.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2       16.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2       17.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
ENDATA7A              0.      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 8 (INCREMENTAL INFLOW CONDITIONS) $$$

CARD TYPE           REACH      FLOW      TEMP      D.O.       BOD      CM-1      CM-2      CM-3       ANC      COLI
INCR INFLOW-1         1.     3.000     85.50      5.00      0.00      0.00      0.00      0.00      0.00      0.08
INCR INFLOW-1         2.     3.000     85.50      5.00      0.00      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1         3.     3.000     85.50      5.00    370.40      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1         4.     3.000     85.50      5.00    740.70      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1         5.     3.000     85.50      5.00    833.30      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1         6.     3.000     85.50      5.00    740.70      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1         7.     3.000     85.50      5.00    555.60      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1         8.     3.000     85.50      5.00    555.60      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1         9.     3.000     85.50      5.00    555.60      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        10.     3.000     85.50      5.00    555.60      0.00      0.00      0.00      0.00      0.00
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INCR INFLOW-1        11.     3.000     85.50      5.00    468.50      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        12.     3.000     85.50      5.00    468.50      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        13.     3.000     85.50      5.00    451.50      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        14.     3.000     85.50      5.00    408.90      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        15.     3.000     85.50      5.00    366.30      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        16.     3.000     85.50      5.00    323.70      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        17.     3.000     85.50      5.00    281.10      0.00      0.00      0.00      0.00      0.00
ENDATA8               0.     0.000      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 8A (INCREMENTAL INFLOW CONDITIONS FOR CHLOROPHYLL A, NITROGEN, AND PHOSPHORUS) $$$

CARD TYPE           REACH    CHL-A     ORG-N     NH3-N     NO2-N     NO3-N     ORG-P     DIS-P
INCR INFLOW-2         1.      0.00      0.00      0.00      0.00      0.00      0.74      0.00
INCR INFLOW-2         2.      0.00      0.00      0.00      0.00      0.00     12.96      0.00
INCR INFLOW-2         3.      0.00      0.00      0.00      0.00      0.00     25.93      0.00
INCR INFLOW-2         4.      0.00      0.00      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         5.      0.00      0.00      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         6.      0.00     22.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         7.      0.00     22.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         8.      0.00     22.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         9.      0.00     22.20      0.00      0.00      0.00      3.70      0.00
INCR INFLOW-2        10.      0.00     22.20      0.00      0.00      0.00      5.56      0.00
INCR INFLOW-2        11.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        12.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        13.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        14.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        15.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        16.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        17.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
ENDATA8A              0.      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 9 (STREAM JUNCTIONS) $$$

CARD TYPE              JUNCTION ORDER AND IDENT         UPSTRM   JUNCTION    TRIB
ENDATA9                0.                                 0.        0.        0.

 $$$ DATA TYPE 10 (HEADWATER SOURCES) $$$

CARD TYPE    HDWTR     NAME              FLOW      TEMP      D.O.       BOD      CM-1      CM-2      CM-3
             ORDER
HEADWTR-1      1.          REACH 1     829.00     85.10      6.10      5.60      0.00      0.00      0.00
ENDATA10       0.                        0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 10A (HEADWATER CONDITIONS FOR CHLOROPHYLL, NITROGEN, PHOSPHORUS,
                    COLIFORM AND SELECTED NON-CONSERVATIVE CONSTITUENT) $$$

CARD TYPE     HDWTR     ANC      COLI     CHL-A     ORG-N     NH3-N     NO2-N     NO3-N     ORG-P     DIS-P
              ORDER
HEADWTR-2       1.     0.00      0.00     13.80      0.72      0.03      0.02      0.17      0.04      0.02
ENDATA10A       0.     0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
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$$$ DATA TYPE 11 (POINT SOURCE / POINT SOURCE CHARACTERISTICS) $$$

CARD TYPE	POINT LOAD ORDER	NAME	EFF	FLOW	TEMP	D.O.	BOD	CM-1	CM-2	CM-3
POINTLD-1	1.	BARTHOLOMEW	0.00	53.00	78.30	6.50	8.10	0.00	0.00	0.00
POINTLD-1	2.	OUCH POW IN	0.00	-10.62	74.10	0.00	0.00	0.00	0.00	0.00
POINTLD-1	3.	OUCH POW OUT	0.00	2.40	99.00	6.00	5.00	0.00	0.00	0.00
POINTLD-1	4.	ENT STER IN	0.00	-307.54	74.10	0.00	0.00	0.00	0.00	0.00
POINTLD-1	5.	ENT STER OUT	0.00	307.54	112.00	5.90	5.00	0.00	0.00	0.00
POINTLD-1	6.	STERLINGTON	0.00	0.29	86.00	2.00	69.00	0.00	0.00	0.00
POINTLD-1	7.	KOCH OO1	0.00	4.82	86.00	2.00	10.70	0.00	0.00	0.00
POINTLD-1	8.	ANGUS 002	0.00	1.45	86.00	2.00	106.00	0.00	0.00	0.00
POINTLD-1	9.	B DE L'OUTRE	0.00	7.30	80.20	6.40	5.60	0.00	0.00	0.00
POINTLD-1	10.	B D'ARBONNE	0.00	0.00	82.90	6.20	5.60	0.00	0.00	0.00
POINTLD-1	11.	CHAUVIN B	0.00	2.40	78.30	6.50	23.00	0.00	0.00	0.00
POINTLD-1	12.	ENT MON IN	0.00	-224.30	75.10	0.00	0.00	0.00	0.00	0.00
POINTLD-1	13.	ENT MON OUT	0.00	224.30	106.00	4.82	7.00	0.00	0.00	0.00
POINTLD-1	14.	JUDY SLOUGH	0.00	28.95	76.60	2.00	86.40	0.00	0.00	0.00
POINTLD-1	15.	MONROE POTW	0.00	23.21	86.00	2.00	23.00	0.00	0.00	0.00
POINTLD-1	16.	CHENERE CR	0.00	0.50	76.60	6.60	12.10	0.00	0.00	0.00
POINTLD-1	17.	CYPRESS CR	0.00	0.00	86.00	0.00	0.00	0.00	0.00	0.00
ENDATA11	0.		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 11A (POINT SOURCE CHARACTERISTICS - CHLOROPHYLL A, NITROGEN, PHOSPHORUS, COLIFORMS AND SELECTED NON-CONSERVATIVE CONSTITUENT) $$$

CARD TYPE	POINT LOAD ORDER	ANC	COLI	CHL-A	ORG-N	NH3-N	NO2-N	N03-N	ORG-P	DIS-P
POINTLD-2	1.	0.00	0.00	17.40	0.70	0.02	0.02	0.22	0.21	0.03
POINTLD-2	2.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POINTLD-2	3.	0.00	0.00	0.00	0.70	0.03	0.02	0.16	0.08	0.02
POINTLD-2	4.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POINTLD-2	5.	0.00	0.00	0.00	0.70	0.03	0.02	0.20	0.10	0.02
POINTLD-2	6.	0.00	0.00	100.00	10.00	5.00	0.00	0.70	2.50	1.00
POINTLD-2	7.	0.00	0.00	0.00	0.76	16.50	0.00	0.58	0.24	0.15
POINTLD-2	8.	0.00	0.00	0.00	8.32	0.31	0.00	34.33	0.33	0.01
POINTLD-2	9.	0.00	0.00	13.30	0.81	0.02	0.02	0.08	0.08	0.01
POINTLD-2	10.	0.00	0.00	13.30	0.71	0.02	0.02	0.07	0.06	0.01
POINTLD-2	11.	0.00	0.00	29.30	1.88	1.24	0.02	0.22	0.41	0.63
POINTLD-2	12.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POINTLD-2	13.	0.00	0.00	0.00	0.67	0.04	0.04	0.30	0.15	0.03
POINTLD-2	14.	0.00	0.00	12.20	2.98	1.50	0.00	0.12	0.69	0.70
POINTLD-2	15.	0.00	0.00	0.00	0.67	1.33	0.00	6.36	0.95	0.29
POINTLD-2	16.	0.00	0.00	13.30	0.81	0.02	0.00	0.03	0.06	0.01
POINTLD-2	17.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENDATA11A	0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 12 (DAM CHARACTERISTICS) $$$

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                      DAM   RCH   ELE    ADAM    BDAM    FDAM    HDAM
ENDATA12                0.    0.    0.    0.00    0.00    0.00    0.00
 $$$ DATA TYPE 13 (DOWNSTREAM BOUNDARY CONDITIONS-1) $$$
     CARD TYPE               TEMP       D.O.      BOD       CM-1      CM-2      CM-3       ANC      COLI
ENDATA13                     DOWNSTREAM BOUNDARY CONCENTRATIONS ARE UNCONSTRAINED
 $$$ DATA TYPE 13A (DOWNSTREAM BOUNDARY CONDITIONS-2) $$$
     CARD TYPE               CHL-A     ORG-N     NH3-N     NO2-N     NH3-N     ORG-P     DIS-P
ENDATA13A                    DOWNSTREAM BOUNDARY CONCENTRATIONS ARE UNCONSTRAINED
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                                    * * * QUAL-2E  STREAM QUALITY ROUTING MODEL * * *
                                                 Version 3.21  -  Feb. 1995

 $$$ (PROBLEM TITLES) $$$

CARD TYPE                              QUAL-2E PROGRAM TITLES
TITLE01              LOWER OUACHITA RIVER SEPTEMBER PROJECTION - STEADY STATE WQ
TITLE02              RUN TO MEET CRITERIA
TITLE03  NO          CONSERVATIVE MINERAL I
TITLE04  NO          CONSERVATIVE MINERAL II
TITLE05  NO          CONSERVATIVE MINERAL III
TITLE06  YES         TEMPERATURE
TITLE07  YES         BIOCHEMICAL OXYGEN DEMAND
TITLE08  YES         ALGAE AS CHL-A IN UG/L
TITLE09  YES         PHOSPHORUS CYCLE AS P IN MG/L
TITLE10                (ORGANIC-P; DISSOLVED-P)
TITLE11  YES         NITROGEN CYCLE AS N IN MG/L
TITLE12                (ORGANIC-N; AMMONIA-N; NITRITE-N;' NITRATE-N)
TITLE13  YES         DISSOLVED OXYGEN IN MG/L
TITLE14  NO          FECAL COLIFORM IN NO./100 ML
TITLE15  NO          ARBITRARY NON-CONSERVATIVE
ENDTITLE

 $$$ DATA TYPE 1 (CONTROL DATA) $$$

CARD TYPE                                      CARD TYPE
LIST DATA INPUT             0.00000                                      0.00000
WRITE OPTIONAL SUMMARY      0.00000                                      0.00000
NO FLOW AUGMENTATION        0.00000                                      0.00000
STEADY STATE                0.00000                                      0.00000
NO TRAP CHANNELS            0.00000                                      0.00000
NO PRINT LCD/SOLAR DATA     0.00000                                      0.00000
NO PLOT DO AND BOD DATA     0.00000                                      0.00000
FIXED DNSTM CONC (YES=1)=   0.00000          5D-ULT BOD CONV K COEF  =   0.23000
INPUT METRIC            =   0.00000          OUTPUT METRIC           =   0.00000
NUMBER OF REACHES       =  17.00000          NUMBER OF JUNCTIONS     =   0.00000
NUM OF HEADWATERS       =   1.00000          NUMBER OF POINT LOADS   =  17.00000
TIME STEP (HOURS)       =   1.00000          LNTH. COMP. ELEMENT (DX)=   0.25000
MAXIMUM ROUTE TIME (HRS)= 450.00000          TIME INC. FOR RPT2 (HRS)=   3.00000
LATITUDE OF BASIN (DEG) =  32.50000          LONGITUDE OF BASIN (DEG)=  92.00000
STANDARD MARIDIAN (DEG) =  90.00000          DAY OF YEAR START TIME  = 258.00000
EVAP. COEF.,(AE)        =   0.00029          EVAP. COEF.,(BE)        =   0.00016
ELEV. OF BASIN (ELEV)   =  54.00000          DUST ATTENUATION COEF.  =   0.13000
ENDATA1                     0.00000                                      0.00000

 $$$ DATA TYPE 1A (ALGAE PRODUCTION AND NITROGEN OXIDATION CONSTANTS) $$$

CARD TYPE                                            CARD TYPE
O UPTAKE BY NH3 OXID(MG O/MG N)=    3.4300           O UPTAKE BY NO2 OXID(MG O/MG N)=    1.1400
O PROD  BY ALGAE (MG O/MG A)   =    1.8000           O UPTAKE BY ALGAE (MG O/MG A)  =    2.3000
N CONTENT OF ALGAE (MG N/MG A) =    0.0900           P CONTENT OF ALGAE (MG O/MG A) =    0.0150
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ALG MAX SPEC GROWTH RATE(1/DAY)=    2.1000          ALGAE RESPIRATION RATE (1/DAY) =    0.0500
N HALF SATURATION CONST (MG/L) =    0.2000          P HALF SATURATION CONST (MG/L) =    0.0400
LIN ALG SHADE CO (1/FT-UGCHA/L=)    0.0027          NLIN SHADE(1/FT-(UGCHA/L)**2/3)=    0.0165
LIGHT FUNCTION OPTION (LFNOPT) =    1.0000          LIGHT SAT'N COEF (BTU/FT2-MIN) =    0.0660
DAILY AVERAGING OPTION (LAVOPT)=    3.0000          LIGHT AVERAGING FACTOR (AFACT) =    0.9200
NUMBER OF DAYLIGHT HOURS (DLH) =   14.0000          TOTAL DAILY SOLR RAD (BTU/FT-2)= 1300.0000
ALGY GROWTH CALC OPTION(LGROPT)=    1.0000          ALGAL PREF FOR NH3-N (PREFN)   =    0.5000
ALG/TEMP SOLR RAD FACTOR(TFACT)=    0.4400          NITRIFICATION INHIBITION COEF  =    0.6000
ENDATA1A                            0.0000                                              0.0000

 $$$ DATA TYPE 1B (TEMPERATURE CORRECTION CONSTANTS FOR RATE COEFFICIENTS) $$$

CARD TYPE     RATE CODE     THETA VALUE

THETA( 1)      BOD DECA        1.047     USER
THETA( 2)      BOD SETT        1.024     USER
THETA( 3)      OXY TRAN        1.024     USER
THETA( 4)      SOD RATE        1.065     USER
THETA( 5)      ORGN DEC        1.047     USER
THETA( 6)      ORGN SET        1.024     USER
THETA( 7)      NH3 DECA        1.070     USER
THETA( 8)      NH3 SRCE        1.074     USER
THETA( 9)      NO2 DECA        1.047     USER
THETA(10)      PORG DEC        1.047     USER
THETA(11)      PORG SET        1.024     USER
THETA(12)      DISP SRC        1.074     USER
THETA(13)      ALG GROW        1.047     USER
THETA(14)      ALG RESP        1.047     USER
THETA(15)      ALG SETT        1.024     USER
THETA(16)      COLI DEC        1.047     DFLT
THETA(17)      ANC DECA        1.000     DFLT
THETA(18)      ANC SETT        1.024     DFLT
THETA(19)      ANC SRCE        1.000     DFLT
ENDATA1B

 $$$ DATA TYPE 2 (REACH IDENTIFICATION) $$$

CARD TYPE           REACH ORDER AND IDENT              R. MI/KM           R. MI/KM
STREAM REACH     1.0  RCH=        REACH 1    FROM        200.4    TO         195.4
STREAM REACH     2.0  RCH=        REACH 2    FROM        195.4    TO         190.4
STREAM REACH     3.0  RCH=        REACH 3    FROM        190.4    TO         185.4
STREAM REACH     4.0  RCH=        REACH 4    FROM        185.4    TO         180.4
STREAM REACH     5.0  RCH=        REACH 5    FROM        180.4    TO         175.4
STREAM REACH     6.0  RCH=        REACH 6    FROM        175.4    TO         170.4
STREAM REACH     7.0  RCH=        REACH 7    FROM        170.4    TO         165.4
STREAM REACH     8.0  RCH=        REACH 8    FROM        165.4    TO         160.4
STREAM REACH     9.0  RCH=        REACH 9    FROM        160.4    TO         155.4
STREAM REACH    10.0  RCH=        REACH 10   FROM        155.4    TO         150.4
STREAM REACH    11.0  RCH=        REACH 11   FROM        150.4    TO         145.4
STREAM REACH    12.0  RCH=        REACH 12   FROM        145.4    TO         140.4
STREAM REACH    13.0  RCH=        REACH 13   FROM        140.4    TO         135.4
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STREAM REACH    14.0  RCH=        REACH 14   FROM        135.4    TO         130.4
STREAM REACH    15.0  RCH=        REACH 15   FROM        130.4    TO         125.4
STREAM REACH    16.0  RCH=        REACH 16   FROM        125.4    TO         120.4
STREAM REACH    17.0  RCH=        REACH 17   FROM        120.4    TO         117.4
ENDATA2          0.0                                      0.0                  0.0

 $$$ DATA TYPE 3 (TARGET LEVEL DO AND FLOW AUGMENTATION SOURCES) $$$

CARD TYPE                  REACH  AVAIL HDWS TARGET     ORDER OF AVAIL SOURCES
ENDATA3                     0.        0.       0.0   0.   0.   0.   0.   0.   0.

 $$$ DATA TYPE 4 (COMPUTATIONAL REACH FLAG FIELD) $$$

CARD TYPE        REACH ELEMENTS/REACH             COMPUTATIONAL FLAGS
FLAG FIELD        1.       20.          1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        2.       20.          2.2.2.2.2.2.2.6.7.6.7.6.2.2.6.2.6.2.2.2.
FLAG FIELD        3.       20.          2.2.2.2.6.2.2.2.2.6.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        4.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        5.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        6.       20.          2.2.2.2.2.2.2.2.2.2.6.2.2.2.2.6.2.2.2.2.
FLAG FIELD        7.       20.          2.2.2.7.6.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        8.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.6.2.2.
FLAG FIELD        9.       20.          2.2.2.6.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       10.       20.          2.2.2.2.2.2.2.6.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       11.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       12.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       13.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       14.       20.          2.2.2.2.2.2.2.6.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       15.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       16.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       17.       12.          2.2.2.2.2.2.2.2.2.2.5.0.0.0.0.0.0.0.0.0.
ENDATA4           0.        0.          0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.

 $$$ DATA TYPE 5 (HYDRAULIC DATA FOR DETERMINING VELOCITY AND DEPTH) $$$

CARD TYPE        REACH  COEF-DSPN  COEFQV    EXPOQV    COEFQH   EXPOQH     CMANN
HYDRAULICS        1.      30.00     0.000     0.979    14.000     0.016     0.035
HYDRAULICS        2.      30.00     0.000     0.984    13.300     0.014     0.035
HYDRAULICS        3.      30.00     0.000     0.979    12.400     0.012     0.035
HYDRAULICS        4.      30.00     0.000     0.982    16.100     0.015     0.035
HYDRAULICS        5.      30.00     0.000     0.986    21.200     0.009     0.035
HYDRAULICS        6.      30.00     0.000     0.992    21.700     0.005     0.035
HYDRAULICS        7.      30.00     0.000     0.993    21.700     0.003     0.035
HYDRAULICS        8.      30.00     0.000     0.995    21.600     0.003     0.035
HYDRAULICS        9.      30.00     0.000     0.996    21.600     0.001     0.035
HYDRAULICS       10.      30.00     0.000     0.996    21.100     0.002     0.035
HYDRAULICS       11.      30.00     0.000     0.997    20.900     0.002     0.035
HYDRAULICS       12.      30.00     0.000     0.998    26.500     0.001     0.035
HYDRAULICS       13.      30.00     0.000     0.998    32.300     0.001     0.035
HYDRAULICS       14.      30.00     0.000     0.999    29.800     0.001     0.035
HYDRAULICS       15.      30.00     0.000     0.999    27.300     0.000     0.035
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HYDRAULICS       16.     30.00     0.000     0.999    24.700     0.000     0.035
HYDRAULICS       17.     30.00     0.000     1.000    22.500     0.000     0.035
ENDATA5           0.      0.00     0.000     0.000     0.000     0.000     0.000

 $$$ DATA TYPE 5A (STEADY STATE TEMPERATURE AND CLIMATOLOGY DATA) $$$

CARD TYPE                          DUST     CLOUD   DRY BULB  WET BULB     ATM              SOLAR RAD
               REACH   ELEVATION    COEF     COVER     TEMP      TEMP    PRESSURE     WIND   ATTENUATION
TEMP/LCD         1.       54.00    0.13      0.20     75.70     67.80     30.00      7.91      1.00
TEMP/LCD         2.       54.00    0.13      0.20     75.70     67.80     30.00      7.91      1.00
TEMP/LCD         3.       54.00    0.13      0.20     75.70     67.80     30.00      7.91      1.00
TEMP/LCD         4.       54.00    0.13      0.20     75.70     67.80     30.00      7.91      1.00
TEMP/LCD         5.       54.00    0.13      0.20     75.70     67.80     30.00      7.91      1.00
TEMP/LCD         6.       54.00    0.13      0.20     75.70     67.80     30.00      7.91      1.00
TEMP/LCD         7.       54.00    0.13      0.20     75.70     67.80     30.00      7.91      1.00
TEMP/LCD         8.       54.00    0.13      0.20     75.70     67.80     30.00      7.91      1.00
TEMP/LCD         9.       54.00    0.13      0.20     75.70     67.80     30.00      7.91      1.00
TEMP/LCD        10.       54.00    0.13      0.20     75.70     67.80     30.00      7.91      1.00
TEMP/LCD        11.       54.00    0.13      0.20     75.70     67.80     30.00      7.91      1.00
TEMP/LCD        12.       54.00    0.13      0.20     75.70     67.80     30.00      7.91      1.00
TEMP/LCD        13.       54.00    0.13      0.20     75.70     67.80     30.00      7.91      1.00
TEMP/LCD        14.       54.00    0.13      0.20     75.70     67.80     30.00      7.91      1.00
TEMP/LCD        15.       54.00    0.13      0.20     75.70     67.80     30.00      7.91      1.00
TEMP/LCD        16.       54.00    0.13      0.20     75.70     67.80     30.00      7.91      1.00
TEMP/LCD        17.       54.00    0.13      0.20     75.70     67.80     30.00      7.91      1.00
ENDATA5A         0.        0.00    0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 6 (REACTION COEFFICIENTS FOR DEOXYGENATION AND REAERATION) $$$

CARD TYPE        REACH     K1        K3        SOD          K2OPT     K2      COEQK2    OR   EXPQK2
                                               RATE                           TSIV COEF  OR    SLOPE
                                                                              FOR OPT 8       FOR OPT 8
REACT COEF         1.      0.03      0.00      0.000         1.      0.21       0.000         0.00000
REACT COEF         2.      0.03      0.00      0.000         1.      0.23       0.000         0.00000
REACT COEF         3.      0.03      0.00      0.000         1.      0.25       0.000         0.00000
REACT COEF         4.      0.03      0.00      0.000         1.      0.19       0.000         0.00000
REACT COEF         5.      0.03      0.00      0.000         1.      0.15       0.000         0.00000
REACT COEF         6.      0.03      0.00      0.000         1.      0.15       0.000         0.00000
REACT COEF         7.      0.03      0.00      0.008         1.      0.15       0.000         0.00000
REACT COEF         8.      0.03      0.00      0.008         1.      0.15       0.000         0.00000
REACT COEF         9.      0.03      0.00      0.008         1.      0.15       0.000         0.00000
REACT COEF        10.      0.03      0.00      0.008         1.      0.16       0.000         0.00000
REACT COEF        11.      0.03      0.00      0.008         1.      0.16       0.000         0.00000
REACT COEF        12.      0.03      0.00      0.008         1.      0.12       0.000         0.00000
REACT COEF        13.      0.03      0.00      0.008         1.      0.10       0.000         0.00000
REACT COEF        14.      0.03      0.00      0.008         1.      0.11       0.000         0.00000
REACT COEF        15.      0.03      0.00      0.008         1.      0.12       0.000         0.00000
REACT COEF        16.      0.03      0.00      0.008         1.      0.13       0.000         0.00000
REACT COEF        17.      0.03      0.00      0.008         1.      0.15       0.000         0.00000
ENDATA6           0.      0.00      0.00      0.000         0.      0.00       0.000         0.00000
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$$$ DATA TYPE 6A (NITROGEN AND PHOSPHORUS CONSTANTS) $$$

CARD TYPE	REACH	CKNH2	SETNH2	CKNH3	SNH3	CKNO2	CKPORG	SETPORG	SPO4
N AND P COEF	1.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	2.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	3.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	4.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	5.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	6.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	7.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	8.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	9.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	10.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	11.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	12.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	13.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	14.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	15.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	16.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	17.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
ENDATA6A	0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 6B (ALGAE/OTHER COEFFICIENTS) $$$

CARD TYPE	REACH	ALPHAO	ALGSET	EXCOEF	CK5 CKCOLI	CKANC	SETANC	SRCANC
ALG/OTHER COEF	1.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ALG/OTHER COEF	2.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ALG/OTHER COEF	3.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	4.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	5.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	6.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	7.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	8.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	9.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	10.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	11.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	12.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	13.	50.00	0.05	0.82	0.00	0.00	0.00	0.00
ALG/OTHER COEF	14.	50.00	0.05	0.82	0.00	0.00	0.00	0.00
ALG/OTHER COEF	15.	50.00	0.05	0.82	0.00	0.00	0.00	0.00
ALG/OTHER COEF	16.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ALG/OTHER COEF	17.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ENDATA6B	0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 7 (INITIAL CONDITIONS) $$$

CARD TYPE	REACH	TEMP	D.O.	BOD	CM-1	CM-2	CM-3	ANC	COLI
INITIAL COND-1	1.	85.50	5.00	5.00	0.00	0.00	0.00	0.00	0.00
INITIAL COND-1	2.	85.50	5.00	5.00	0.00	0.00	0.00	0.00	0.00
INITIAL COND-1	3.	85.50	5.00	5.00	0.00	0.00	0.00	0.00	0.00

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INITIAL COND-1        4.     85.50      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        5.     85.50      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        6.     85.50      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        7.     85.50      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        8.     85.50      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        9.     85.50      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       10.     85.50      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       11.     85.50      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       12.     85.50      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       13.     85.50      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       14.     85.50      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       15.     85.50      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       16.     85.50      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       17.     85.50      5.00      5.00      0.00      0.00      0.00      0.00      0.00
ENDATA7               0.      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 7A (INITIAL CONDITIONS FOR CHOROPHYLL A, NITROGEN, AND PHOSPHORUS) $$$

CARD TYPE           REACH     CHL-A     ORG-N     NH3-N     NO2-N     NO3-N     ORG-P     DIS-P
INITIAL COND-2        1.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2        2.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2        3.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2        4.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2        5.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2        6.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2        7.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2        8.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2        9.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2       10.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2       11.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2       12.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2       13.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2       14.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2       15.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2       16.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2       17.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
ENDATA7A              0.      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 8 (INCREMENTAL INFLOW CONDITIONS) $$$

CARD TYPE           REACH      FLOW      TEMP      D.O.       BOD      CM-1      CM-2      CM-3       ANC      COLI
INCR INFLOW-1         1.     3.000     85.50      5.00      0.00      0.00      0.00      0.00      0.00      0.08
INCR INFLOW-1         2.     3.000     85.50      5.00      0.00      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1         3.     3.000     85.50      5.00    259.30      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1         4.     3.000     85.50      5.00    518.50      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1         5.     3.000     85.50      5.00    583.30      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1         6.     3.000     85.50      5.00    518.50      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1         7.     3.000     85.50      5.00    388.90      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1         8.     3.000     85.50      5.00    388.90      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1         9.     3.000     85.50      5.00    388.90      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        10.     3.000     85.50      5.00    388.90      0.00      0.00      0.00      0.00      0.00
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INCR INFLOW-1        11.     3.000     85.50      5.00    328.00      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        12.     3.000     85.50      5.00    328.00      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        13.     3.000     85.50      5.00    316.00      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        14.     3.000     85.50      5.00    286.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        15.     3.000     85.50      5.00    256.40      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        16.     3.000     85.50      5.00    226.60      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        17.     3.000     85.50      5.00    196.80      0.00      0.00      0.00      0.00      0.00
ENDATA8               0.     0.000      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 8A (INCREMENTAL INFLOW CONDITIONS FOR CHLOROPHYLL A, NITROGEN, AND PHOSPHORUS) $$$

CARD TYPE           REACH    CHL-A     ORG-N     NH3-N     NO2-N     NO3-N     ORG-P     DIS-P
INCR INFLOW-2         1.      0.00      0.00      0.00      0.00      0.00      0.52      0.00
INCR INFLOW-2         2.      0.00      0.00      0.00      0.00      0.00      9.07      0.00
INCR INFLOW-2         3.      0.00      0.00      0.00      0.00      0.00     18.15      0.00
INCR INFLOW-2         4.      0.00      0.00      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         5.      0.00      0.00      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         6.      0.00     15.60      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         7.      0.00     15.60      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         8.      0.00     15.60      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         9.      0.00     15.60      0.00      0.00      0.00      2.59      0.00
INCR INFLOW-2        10.      0.00     15.60      0.00      0.00      0.00      3.89      0.00
INCR INFLOW-2        11.      0.00      7.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        12.      0.00      7.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        13.      0.00      7.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        14.      0.00      7.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        15.      0.00      7.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        16.      0.00      7.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        17.      0.00      7.20      0.00      0.00      0.00      0.00      0.00
ENDATA8A              0.      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 9 (STREAM JUNCTIONS) $$$

CARD TYPE              JUNCTION ORDER AND IDENT         UPSTRM   JUNCTION    TRIB
ENDATA9                0.                                 0.        0.        0.

 $$$ DATA TYPE 10 (HEADWATER SOURCES) $$$

CARD TYPE    HDWTR     NAME              FLOW      TEMP      D.O.       BOD      CM-1      CM-2      CM-3
             ORDER
HEADWTR-1      1.          REACH 1     829.00     85.10      6.10      4.70      0.00      0.00      0.00
ENDATA10       0.                        0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 10A (HEADWATER CONDITIONS FOR CHLOROPHYLL, NITROGEN, PHOSPHORUS,
                    COLIFORM AND SELECTED NON-CONSERVATIVE CONSTITUENT) $$$

CARD TYPE     HDWTR     ANC      COLI     CHL-A     ORG-N     NH3-N     NO2-N     NO3-N     ORG-P     DIS-P
              ORDER
HEADWTR-2       1.     0.00      0.00     11.70      0.61      0.03      0.02      0.14      0.04      0.02
ENDATA10A       0.     0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
```

$$$ DATA TYPE 11 (POINT SOURCE / POINT SOURCE CHARACTERISTICS) $$$

CARD TYPE	POINT LOAD ORDER	NAME	EFF	FLOW	TEMP	D.O.	BOD	CM-1	CM-2	CM-3
POINTLD-1	1.	BARTHOLOMEW	0.00	53.00	78.30	6.50	8.10	0.00	0.00	0.00
POINTLD-1	2.	OUCH POW IN	0.00	-10.62	74.10	0.00	0.00	0.00	0.00	0.00
POINTLD-1	3.	OUCH POW OUT	0.00	2.40	99.00	6.00	5.00	0.00	0.00	0.00
POINTLD-1	4.	ENT STER IN	0.00	-307.54	74.10	0.00	0.00	0.00	0.00	0.00
POINTLD-1	5.	ENT STER OUT	0.00	307.54	112.00	5.90	5.00	0.00	0.00	0.00
POINTLD-1	6.	STERLINGTON	0.00	0.29	86.00	2.00	69.00	0.00	0.00	0.00
POINTLD-1	7.	KOCH OO1	0.00	4.82	86.00	2.00	10.70	0.00	0.00	0.00
POINTLD-1	8.	ANGUS 002	0.00	1.45	86.00	2.00	106.00	0.00	0.00	0.00
POINTLD-1	9.	B DE L'OUTRE	0.00	7.30	80.20	6.40	5.60	0.00	0.00	0.00
POINTLD-1	10.	B D'ARBONNE	0.00	0.00	82.90	6.20	5.60	0.00	0.00	0.00
POINTLD-1	11.	CHAUVIN B	0.00	2.40	78.30	6.50	23.00	0.00	0.00	0.00
POINTLD-1	12.	ENT MON IN	0.00	-224.30	75.10	0.00	0.00	0.00	0.00	0.00
POINTLD-1	13.	ENT MON OUT	0.00	224.30	106.00	5.27	7.00	0.00	0.00	0.00
POINTLD-1	14.	JUDY SLOUGH	0.00	24.61	76.60	2.00	86.40	0.00	0.00	0.00
POINTLD-1	15.	MONROE POTW	0.00	23.21	86.00	2.00	23.00	0.00	0.00	0.00
POINTLD-1	16.	CHENERE CR	0.00	0.50	76.60	6.60	12.10	0.00	0.00	0.00
POINTLD-1	17.	CYPRESS CR	0.00	0.00	86.00	0.00	0.00	0.00	0.00	0.00
ENDATA11	0.		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 11A (POINT SOURCE CHARACTERISTICS - CHLOROPHYLL A, NITROGEN, PHOSPHORUS, COLIFORMS AND SELECTED NON-CONSERVATIVE CONSTITUENT) $$$

CARD TYPE	POINT LOAD ORDER	ANC	COLI	CHL-A	ORG-N	NH3-N	NO2-N	N03-N	ORG-P	DIS-P
POINTLD-2	1.	0.00	0.00	17.40	0.70	0.02	0.02	0.22	0.21	0.03
POINTLD-2	2.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POINTLD-2	3.	0.00	0.00	0.00	0.70	0.03	0.02	0.16	0.08	0.02
POINTLD-2	4.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POINTLD-2	5.	0.00	0.00	0.00	0.70	0.03	0.02	0.20	0.10	0.02
POINTLD-2	6.	0.00	0.00	100.00	10.00	5.00	0.00	0.70	2.50	1.00
POINTLD-2	7.	0.00	0.00	0.00	0.76	16.50	0.00	0.58	0.24	0.15
POINTLD-2	8.	0.00	0.00	0.00	8.32	0.31	0.00	34.33	0.33	0.01
POINTLD-2	9.	0.00	0.00	13.30	0.81	0.02	0.02	0.08	0.08	0.01
POINTLD-2	10.	0.00	0.00	13.30	0.71	0.02	0.02	0.07	0.06	0.01
POINTLD-2	11.	0.00	0.00	29.30	1.88	1.24	0.02	0.22	0.41	0.63
POINTLD-2	12.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POINTLD-2	13.	0.00	0.00	0.00	0.67	0.04	0.04	0.30	0.15	0.03
POINTLD-2	14.	0.00	0.00	12.20	2.98	1.50	0.00	0.12	0.69	0.70
POINTLD-2	15.	0.00	0.00	0.00	0.67	1.33	0.00	6.36	0.95	0.29
POINTLD-2	16.	0.00	0.00	13.30	0.81	0.02	0.00	0.03	0.06	0.01
POINTLD-2	17.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENDATA11A	0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 12 (DAM CHARACTERISTICS) $$$

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                      DAM   RCH   ELE    ADAM    BDAM    FDAM    HDAM
ENDATA12                0.    0.    0.    0.00    0.00    0.00    0.00
 $$$ DATA TYPE 13 (DOWNSTREAM BOUNDARY CONDITIONS-1) $$$
     CARD TYPE               TEMP       D.O.      BOD       CM-1      CM-2      CM-3       ANC      COLI
ENDATA13                     DOWNSTREAM BOUNDARY CONCENTRATIONS ARE UNCONSTRAINED
 $$$ DATA TYPE 13A (DOWNSTREAM BOUNDARY CONDITIONS-2) $$$
     CARD TYPE               CHL-A     ORG-N     NH3-N     NO2-N     NH3-N     ORG-P     DIS-P
ENDATA13A                    DOWNSTREAM BOUNDARY CONCENTRATIONS ARE UNCONSTRAINED
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APPENDIX K - AUGUST PROJECTION OUTPUT

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                                    * * * QUAL-2E  STREAM QUALITY ROUTING MODEL * * *
                                                 Version 3.21  -  Feb. 1995

 $$$ (PROBLEM TITLES) $$$

CARD TYPE                              QUAL-2E PROGRAM TITLES
TITLE01              LOWER OUACHITA RIVER AUGUST PROJECTION - STEADY STATE WQ
TITLE02              RUN TO MEET CRITERIA
TITLE03  NO          CONSERVATIVE MINERAL I
TITLE04  NO          CONSERVATIVE MINERAL II
TITLE05  NO          CONSERVATIVE MINERAL III
TITLE06  YES         TEMPERATURE
TITLE07  YES         BIOCHEMICAL OXYGEN DEMAND
TITLE08  YES         ALGAE AS CHL-A IN UG/L
TITLE09  YES         PHOSPHORUS CYCLE AS P IN MG/L
TITLE10                (ORGANIC-P; DISSOLVED-P)
TITLE11  YES         NITROGEN CYCLE AS N IN MG/L
TITLE12                (ORGANIC-N; AMMONIA-N; NITRITE-N;' NITRATE-N)
TITLE13  YES         DISSOLVED OXYGEN IN MG/L
TITLE14  NO          FECAL COLIFORM IN NO./100 ML
TITLE15  NO          ARBITRARY NON-CONSERVATIVE
ENDTITLE

 $$$ DATA TYPE 1 (CONTROL DATA) $$$

CARD TYPE                                    CARD TYPE
LIST DATA INPUT             0.00000                                     0.00000
WRITE OPTIONAL SUMMARY      0.00000                                     0.00000
NO FLOW AUGMENTATION        0.00000                                     0.00000
STEADY STATE                0.00000                                     0.00000
NO TRAP CHANNELS            0.00000                                     0.00000
NO PRINT LCD/SOLAR DATA     0.00000                                     0.00000
NO PLOT DO AND BOD DATA     0.00000                                     0.00000
FIXED DNSTM CONC (YES=1)=   0.00000          5D-ULT BOD CONV K COEF  =   0.23000
INPUT METRIC            =   0.00000          OUTPUT METRIC           =   0.00000
NUMBER OF REACHES       =  17.00000          NUMBER OF JUNCTIONS     =   0.00000
NUM OF HEADWATERS       =   1.00000          NUMBER OF POINT LOADS   =  17.00000
TIME STEP (HOURS)       =   1.00000          LNTH. COMP. ELEMENT (DX)=   0.25000
MAXIMUM ROUTE TIME (HRS)= 450.00000          TIME INC. FOR RPT2 (HRS)=   3.00000
LATITUDE OF BASIN (DEG) =  32.50000          LONGITUDE OF BASIN (DEG)=  92.00000
STANDARD MARIDIAN (DEG) =  90.00000          DAY OF YEAR START TIME  = 228.00000
EVAP. COEF.,(AE)        =   0.00042          EVAP. COEF.,(BE)        =   0.00021
ELEV. OF BASIN (ELEV)   =  54.00000          DUST ATTENUATION COEF.  =   0.13000
ENDATA1                     0.00000                                     0.00000

 $$$ DATA TYPE 1A (ALGAE PRODUCTION AND NITROGEN OXIDATION CONSTANTS) $$$

CARD TYPE                                          CARD TYPE
O UPTAKE BY NH3 OXID(MG O/MG N)=    3.4300         O UPTAKE BY NO2 OXID(MG O/MG N)=    1.1400
O PROD  BY ALGAE (MG O/MG A)   =    1.8000         O UPTAKE BY ALGAE (MG O/MG A)  =    2.3000
N CONTENT OF ALGAE (MG N/MG A) =    0.0900         P CONTENT OF ALGAE (MG O/MG A) =    0.0150
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ALG MAX SPEC GROWTH RATE(1/DAY)=    2.1000          ALGAE RESPIRATION RATE (1/DAY) =    0.0500
N HALF SATURATION CONST (MG/L) =    0.2000          P HALF SATURATION CONST (MG/L) =    0.0400
LIN ALG SHADE CO (1/FT-UGCHA/L=)    0.0027          NLIN SHADE(1/FT-(UGCHA/L)**2/3)=    0.0165
LIGHT FUNCTION OPTION (LFNOPT) =    1.0000          LIGHT SAT'N COEF (BTU/FT2-MIN) =    0.0660
DAILY AVERAGING OPTION (LAVOPT)=    3.0000          LIGHT AVERAGING FACTOR (AFACT) =    0.9200
NUMBER OF DAYLIGHT HOURS (DLH) =   14.0000          TOTAL DAILY SOLR RAD (BTU/FT-2)= 1300.0000
ALGY GROWTH CALC OPTION(LGROPT)=    1.0000          ALGAL PREF FOR NH3-N (PREFN)   =    0.5000
ALG/TEMP SOLR RAD FACTOR(TFACT)=    0.4400          NITRIFICATION INHIBITION COEF  =    0.6000
ENDATA1A                            0.0000                                              0.0000

 $$$ DATA TYPE 1B (TEMPERATURE CORRECTION CONSTANTS FOR RATE COEFFICIENTS) $$$

CARD TYPE     RATE CODE     THETA VALUE

THETA( 1)      BOD DECA        1.047     USER
THETA( 2)      BOD SETT        1.024     USER
THETA( 3)      OXY TRAN        1.024     USER
THETA( 4)      SOD RATE        1.065     USER
THETA( 5)      ORGN DEC        1.047     USER
THETA( 6)      ORGN SET        1.024     USER
THETA( 7)      NH3 DECA        1.070     USER
THETA( 8)      NH3 SRCE        1.074     USER
THETA( 9)      NO2 DECA        1.047     USER
THETA(10)      PORG DEC        1.047     USER
THETA(11)      PORG SET        1.024     USER
THETA(12)      DISP SRC        1.074     USER
THETA(13)      ALG GROW        1.047     USER
THETA(14)      ALG RESP        1.047     USER
THETA(15)      ALG SETT        1.024     USER
THETA(16)      COLI DEC        1.047     DFLT
THETA(17)      ANC DECA        1.000     DFLT
THETA(18)      ANC SETT        1.024     DFLT
THETA(19)      ANC SRCE        1.000     DFLT
ENDATA1B

 $$$ DATA TYPE 2 (REACH IDENTIFICATION) $$$

CARD TYPE           REACH ORDER AND IDENT              R. MI/KM           R. MI/KM
STREAM REACH     1.0  RCH=        REACH 1    FROM        200.4    TO         195.4
STREAM REACH     2.0  RCH=        REACH 2    FROM        195.4    TO         190.4
STREAM REACH     3.0  RCH=        REACH 3    FROM        190.4    TO         185.4
STREAM REACH     4.0  RCH=        REACH 4    FROM        185.4    TO         180.4
STREAM REACH     5.0  RCH=        REACH 5    FROM        180.4    TO         175.4
STREAM REACH     6.0  RCH=        REACH 6    FROM        175.4    TO         170.4
STREAM REACH     7.0  RCH=        REACH 7    FROM        170.4    TO         165.4
STREAM REACH     8.0  RCH=        REACH 8    FROM        165.4    TO         160.4
STREAM REACH     9.0  RCH=        REACH 9    FROM        160.4    TO         155.4
STREAM REACH    10.0  RCH=        REACH 10   FROM        155.4    TO         150.4
STREAM REACH    11.0  RCH=        REACH 11   FROM        150.4    TO         145.4
STREAM REACH    12.0  RCH=        REACH 12   FROM        145.4    TO         140.4
STREAM REACH    13.0  RCH=        REACH 13   FROM        140.4    TO         135.4
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STREAM REACH    14.0  RCH=        REACH 14   FROM        135.4    TO         130.4
STREAM REACH    15.0  RCH=        REACH 15   FROM        130.4    TO         125.4
STREAM REACH    16.0  RCH=        REACH 16   FROM        125.4    TO         120.4
STREAM REACH    17.0  RCH=        REACH 17   FROM        120.4    TO         117.4
ENDATA2          0.0                                     0.0                  0.0

 $$$ DATA TYPE 3 (TARGET LEVEL DO AND FLOW AUGMENTATION SOURCES) $$$

CARD TYPE                  REACH  AVAIL HDWS TARGET     ORDER OF AVAIL SOURCES
ENDATA3                     0.        0.       0.0   0.   0.   0.   0.   0.   0.

 $$$ DATA TYPE 4 (COMPUTATIONAL REACH FLAG FIELD) $$$

CARD TYPE        REACH ELEMENTS/REACH             COMPUTATIONAL FLAGS
FLAG FIELD        1.       20.          1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        2.       20.          2.2.2.2.2.2.2.6.7.6.7.6.2.2.6.2.6.2.2.2.
FLAG FIELD        3.       20.          2.2.2.2.6.2.2.2.2.6.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        4.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        5.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        6.       20.          2.2.2.2.2.2.2.2.2.2.6.2.2.2.2.6.2.2.2.2.
FLAG FIELD        7.       20.          2.2.2.7.6.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        8.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.6.2.2.
FLAG FIELD        9.       20.          2.2.2.6.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       10.       20.          2.2.2.2.2.2.2.6.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       11.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       12.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       13.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       14.       20.          2.2.2.2.2.2.2.6.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       15.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       16.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       17.       12.          2.2.2.2.2.2.2.2.2.2.5.0.0.0.0.0.0.0.0.0.
ENDATA4           0.        0.          0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.

 $$$ DATA TYPE 5 (HYDRAULIC DATA FOR DETERMINING VELOCITY AND DEPTH) $$$

CARD TYPE        REACH  COEF-DSPN  COEFQV    EXPOQV    COEFQH   EXPOQH     CMANN
HYDRAULICS        1.      30.00     0.000     0.979    14.000     0.016     0.035
HYDRAULICS        2.      30.00     0.000     0.984    13.300     0.014     0.035
HYDRAULICS        3.      30.00     0.000     0.979    12.400     0.012     0.035
HYDRAULICS        4.      30.00     0.000     0.982    16.100     0.015     0.035
HYDRAULICS        5.      30.00     0.000     0.986    21.200     0.009     0.035
HYDRAULICS        6.      30.00     0.000     0.992    21.700     0.005     0.035
HYDRAULICS        7.      30.00     0.000     0.993    21.700     0.003     0.035
HYDRAULICS        8.      30.00     0.000     0.995    21.600     0.003     0.035
HYDRAULICS        9.      30.00     0.000     0.996    21.600     0.001     0.035
HYDRAULICS       10.      30.00     0.000     0.996    21.100     0.002     0.035
HYDRAULICS       11.      30.00     0.000     0.997    20.900     0.002     0.035
HYDRAULICS       12.      30.00     0.000     0.998    26.500     0.001     0.035
HYDRAULICS       13.      30.00     0.000     0.998    32.300     0.001     0.035
HYDRAULICS       14.      30.00     0.000     0.999    29.800     0.001     0.035
HYDRAULICS       15.      30.00     0.000     0.999    27.300     0.000     0.035
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HYDRAULICS       16.     30.00     0.000     0.999    24.700     0.000     0.035
HYDRAULICS       17.     30.00     0.000     1.000    22.500     0.000     0.035
ENDATA5           0.      0.00     0.000     0.000     0.000     0.000     0.000

 $$$ DATA TYPE 5A (STEADY STATE TEMPERATURE AND CLIMATOLOGY DATA) $$$

CARD TYPE                          DUST     CLOUD   DRY BULB  WET BULB     ATM              SOLAR RAD
                REACH   ELEVATION  COEF     COVER     TEMP      TEMP    PRESSURE     WIND   ATTENUATION
TEMP/LCD          1.       54.00   0.13      0.20     81.00     71.80     30.00     6.77      1.00
TEMP/LCD          2.       54.00   0.13      0.20     81.00     71.80     30.00     6.77      1.00
TEMP/LCD          3.       54.00   0.13      0.20     81.00     71.80     30.00     6.77      1.00
TEMP/LCD          4.       54.00   0.13      0.20     81.00     71.80     30.00     6.77      1.00
TEMP/LCD          5.       54.00   0.13      0.20     81.00     71.80     30.00     6.77      1.00
TEMP/LCD          6.       54.00   0.13      0.20     81.00     71.80     30.00     6.77      1.00
TEMP/LCD          7.       54.00   0.13      0.20     81.00     71.80     30.00     6.77      1.00
TEMP/LCD          8.       54.00   0.13      0.20     81.00     71.80     30.00     6.77      1.00
TEMP/LCD          9.       54.00   0.13      0.20     81.00     71.80     30.00     6.77      1.00
TEMP/LCD         10.       54.00   0.13      0.20     81.00     71.80     30.00     6.77      1.00
TEMP/LCD         11.       54.00   0.13      0.20     81.00     71.80     30.00     6.77      1.00
TEMP/LCD         12.       54.00   0.13      0.20     81.00     71.80     30.00     6.77      1.00
TEMP/LCD         13.       54.00   0.13      0.20     81.00     71.80     30.00     6.77      1.00
TEMP/LCD         14.       54.00   0.13      0.20     81.00     71.80     30.00     6.77      1.00
TEMP/LCD         15.       54.00   0.13      0.20     81.00     71.80     30.00     6.77      1.00
TEMP/LCD         16.       54.00   0.13      0.20     81.00     71.80     30.00     6.77      1.00
TEMP/LCD         17.       54.00   0.13      0.20     81.00     71.80     30.00     6.77      1.00
ENDATA5A          0.        0.00   0.00      0.00      0.00      0.00      0.00     0.00      0.00

 $$$ DATA TYPE 6 (REACTION COEFFICIENTS FOR DEOXYGENATION AND REAERATION) $$$

CARD TYPE        REACH     K1        K3       SOD         K2OPT     K2      COEQK2    OR   EXPQK2
                                              RATE                         TSIV COEF  OR    SLOPE
                                                                           FOR OPT 8      FOR OPT 8
REACT COEF         1.      0.03      0.00     0.000         1.      0.20      0.000        0.00000
REACT COEF         2.      0.03      0.00     0.000         1.      0.21      0.000        0.00000
REACT COEF         3.      0.03      0.00     0.000         1.      0.23      0.000        0.00000
REACT COEF         4.      0.03      0.00     0.000         1.      0.17      0.000        0.00000
REACT COEF         5.      0.03      0.00     0.000         1.      0.14      0.000        0.00000
REACT COEF         6.      0.03      0.00     0.000         1.      0.14      0.000        0.00000
REACT COEF         7.      0.03      0.00     0.008         1.      0.14      0.000        0.00000
REACT COEF         8.      0.03      0.00     0.008         1.      0.14      0.000        0.00000
REACT COEF         9.      0.03      0.00     0.008         1.      0.14      0.000        0.00000
REACT COEF        10.      0.03      0.00     0.008         1.      0.14      0.000        0.00000
REACT COEF        11.      0.03      0.00     0.008         1.      0.15      0.000        0.00000
REACT COEF        12.      0.03      0.00     0.008         1.      0.12      0.000        0.00000
REACT COEF        13.      0.03      0.00     0.008         1.      0.09      0.000        0.00000
REACT COEF        14.      0.03      0.00     0.008         1.      0.10      0.000        0.00000
REACT COEF        15.      0.03      0.00     0.008         1.      0.11      0.000        0.00000
REACT COEF        16.      0.03      0.00     0.008         1.      0.13      0.000        0.00000
REACT COEF        17.      0.03      0.00     0.008         1.      0.14      0.000        0.00000
ENDATA6           0.      0.00      0.00     0.000         0.      0.00      0.000        0.00000
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$$$ DATA TYPE 6A (NITROGEN AND PHOSPHORUS CONSTANTS) $$$

CARD TYPE	REACH	CKNH2	SETNH2	CKNH3	SNH3	CKNO2	CKPORG	SETPORG	SPO4
N AND P COEF	1.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	2.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	3.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	4.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	5.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	6.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	7.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	8.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	9.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	10.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	11.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	12.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	13.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	14.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	15.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	16.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	17.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
ENDATA6A	0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 6B (ALGAE/OTHER COEFFICIENTS) $$$

CARD TYPE	REACH	ALPHAO	ALGSET	EXCOEF	CK5 CKCOLI	CKANC	SETANC	SRCANC
ALG/OTHER COEF	1.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ALG/OTHER COEF	2.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ALG/OTHER COEF	3.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	4.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	5.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	6.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	7.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	8.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	9.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	10.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	11.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	12.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	13.	50.00	0.05	0.82	0.00	0.00	0.00	0.00
ALG/OTHER COEF	14.	50.00	0.05	0.82	0.00	0.00	0.00	0.00
ALG/OTHER COEF	15.	50.00	0.05	0.82	0.00	0.00	0.00	0.00
ALG/OTHER COEF	16.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ALG/OTHER COEF	17.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ENDATA6B	0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 7 (INITIAL CONDITIONS) $$$

CARD TYPE	REACH	TEMP	D.O.	BOD	CM-1	CM-2	CM-3	ANC	COLI
INITIAL COND-1	1.	89.30	4.50	5.00	0.00	0.00	0.00	0.00	0.00
INITIAL COND-1	2.	89.30	4.50	5.00	0.00	0.00	0.00	0.00	0.00
INITIAL COND-1	3.	89.30	4.50	5.00	0.00	0.00	0.00	0.00	0.00

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INITIAL COND-1        4.     89.30      4.50      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        5.     89.30      4.50      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        6.     89.30      4.50      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        7.     89.30      4.50      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        8.     89.30      4.50      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        9.     89.30      4.50      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       10.     89.30      4.50      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       11.     89.30      4.50      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       12.     89.30      4.50      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       13.     89.30      4.50      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       14.     89.30      4.50      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       15.     89.30      4.50      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       16.     89.30      4.50      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       17.     89.30      4.50      5.00      0.00      0.00      0.00      0.00      0.00
ENDATA7               0.      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 7A (INITIAL CONDITIONS FOR CHOROPHYLL A, NITROGEN, AND PHOSPHORUS) $$$

CARD TYPE          REACH     CHL-A     ORG-N     NH3-N     NO2-N     NO3-N     ORG-P     DIS-P
INITIAL COND-2       1.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2       2.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2       3.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2       4.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2       5.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2       6.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2       7.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2       8.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2       9.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2      10.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2      11.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2      12.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2      13.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2      14.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2      15.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2      16.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2      17.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
ENDATA7A             0.      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 8 (INCREMENTAL INFLOW CONDITIONS) $$$

CARD TYPE          REACH      FLOW      TEMP      D.O.       BOD      CM-1      CM-2      CM-3       ANC      COLI
INCR INFLOW-1        1.     3.000     89.30      4.50      0.00      0.00      0.00      0.00      0.00      0.08
INCR INFLOW-1        2.     3.000     89.30      4.50      0.00      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        3.     3.000     89.30      4.50    259.30      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        4.     3.000     89.30      4.50    518.50      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        5.     3.000     89.30      4.50    583.30      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        6.     3.000     89.30      4.50    518.50      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        7.     3.000     89.30      4.50    388.90      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        8.     3.000     89.30      4.50    388.90      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        9.     3.000     89.30      4.50    388.90      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1       10.     3.000     89.30      4.50    388.90      0.00      0.00      0.00      0.00      0.00
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INCR INFLOW-1        11.     3.000     89.30      4.50    328.00      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        12.     3.000     89.30      4.50    328.00      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        13.     3.000     89.30      4.50    316.00      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        14.     3.000     89.30      4.50    286.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        15.     3.000     89.30      4.50    256.40      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        16.     3.000     89.30      4.50    226.60      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        17.     3.000     89.30      4.50    196.80      0.00      0.00      0.00      0.00      0.00
ENDATA8               0.     0.000      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 8A (INCREMENTAL INFLOW CONDITIONS FOR CHLOROPHYLL A, NITROGEN, AND PHOSPHORUS) $$$

CARD TYPE           REACH    CHL-A     ORG-N     NH3-N     NO2-N     NO3-N     ORG-P     DIS-P
INCR INFLOW-2         1.      0.00      0.00      0.00      0.00      0.00      0.52      0.00
INCR INFLOW-2         2.      0.00      0.00      0.00      0.00      0.00      9.07      0.00
INCR INFLOW-2         3.      0.00      0.00      0.00      0.00      0.00     18.15      0.00
INCR INFLOW-2         4.      0.00      0.00      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         5.      0.00      0.00      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         6.      0.00     15.60      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         7.      0.00     15.60      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         8.      0.00     15.60      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         9.      0.00     15.60      0.00      0.00      0.00      2.59      0.00
INCR INFLOW-2        10.      0.00     15.60      0.00      0.00      0.00      3.89      0.00
INCR INFLOW-2        11.      0.00      7.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        12.      0.00      7.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        13.      0.00      7.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        14.      0.00      7.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        15.      0.00      7.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        16.      0.00      7.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        17.      0.00      7.20      0.00      0.00      0.00      0.00      0.00
ENDATA8A              0.      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 9 (STREAM JUNCTIONS) $$$

CARD TYPE              JUNCTION ORDER AND IDENT         UPSTRM   JUNCTION    TRIB
ENDATA9                0.                                 0.        0.        0.

 $$$ DATA TYPE 10 (HEADWATER SOURCES) $$$

CARD TYPE    HDWTR     NAME              FLOW      TEMP      D.O.       BOD      CM-1      CM-2      CM-3
             ORDER
HEADWTR-1      1.          REACH 1     802.00     91.20      5.80      4.70      0.00      0.00      0.00
ENDATA10       0.                        0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 10A (HEADWATER CONDITIONS FOR CHLOROPHYLL, NITROGEN, PHOSPHORUS,
                    COLIFORM AND SELECTED NON-CONSERVATIVE CONSTITUENT) $$$

CARD TYPE     HDWTR     ANC      COLI     CHL-A     ORG-N     NH3-N     NO2-N     NO3-N     ORG-P     DIS-P
              ORDER
HEADWTR-2       1.     0.00      0.00     11.70      0.61      0.03      0.02      0.14      0.04      0.02
ENDATA10A       0.     0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
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$$$ DATA TYPE 11 (POINT SOURCE / POINT SOURCE CHARACTERISTICS) $$$

CARD TYPE	POINT LOAD ORDER	NAME	EFF	FLOW	TEMP	D.O.	BOD	CM-1	CM-2	CM-3
POINTLD-1	1.	BARTHOLOMEW	0.00	60.00	84.40	6.10	8.10	0.00	0.00	0.00
POINTLD-1	2.	OUCH POW IN	0.00	-10.62	74.10	0.00	0.00	0.00	0.00	0.00
POINTLD-1	3.	OUCH POW OUT	0.00	2.40	99.00	6.00	5.00	0.00	0.00	0.00
POINTLD-1	4.	ENT STER IN	0.00	-307.54	74.10	0.00	0.00	0.00	0.00	0.00
POINTLD-1	5.	ENT STER OUT	0.00	307.54	112.00	5.60	5.00	0.00	0.00	0.00
POINTLD-1	6.	STERLINGTON	0.00	0.29	86.00	2.00	69.00	0.00	0.00	0.00
POINTLD-1	7.	KOCH OO1	0.00	4.82	86.00	2.00	10.70	0.00	0.00	0.00
POINTLD-1	8.	ANGUS 002	0.00	1.45	86.00	2.00	106.00	0.00	0.00	0.00
POINTLD-1	9.	B DE L'OUTRE	0.00	4.80	86.90	6.00	5.60	0.00	0.00	0.00
POINTLD-1	10.	B D'ARBONNE	0.00	0.00	87.10	6.00	5.60	0.00	0.00	0.00
POINTLD-1	11.	CHAUVIN B	0.00	2.40	84.40	6.10	23.00	0.00	0.00	0.00
POINTLD-1	12.	ENT MON IN	0.00	-224.30	75.10	0.00	0.00	0.00	0.00	0.00
POINTLD-1	13.	ENT MON OUT	0.00	224.30	106.00	4.91	7.00	0.00	0.00	0.00
POINTLD-1	14.	JUDY SLOUGH	0.00	23.77	83.30	2.00	86.40	0.00	0.00	0.00
POINTLD-1	15.	MONROE POTW	0.00	23.21	86.00	2.00	23.00	0.00	0.00	0.00
POINTLD-1	16.	CHENERE CR	0.00	0.50	83.30	6.20	12.10	0.00	0.00	0.00
POINTLD-1	17.	CYPRESS CR	0.00	0.00	86.00	0.00	0.00	0.00	0.00	0.00
ENDATA11	0.		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 11A (POINT SOURCE CHARACTERISTICS - CHLOROPHYLL A, NITROGEN, PHOSPHORUS, COLIFORMS AND SELECTED NON-CONSERVATIVE CONSTITUENT) $$$

CARD TYPE	POINT LOAD ORDER	ANC	COLI	CHL-A	ORG-N	NH3-N	NO2-N	N03-N	ORG-P	DIS-P
POINTLD-2	1.	0.00	0.00	17.40	0.70	0.02	0.02	0.22	0.21	0.03
POINTLD-2	2.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POINTLD-2	3.	0.00	0.00	0.00	0.70	0.03	0.02	0.16	0.08	0.02
POINTLD-2	4.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POINTLD-2	5.	0.00	0.00	0.00	0.70	0.03	0.02	0.20	0.10	0.02
POINTLD-2	6.	0.00	0.00	100.00	10.00	5.00	0.00	0.70	2.50	1.00
POINTLD-2	7.	0.00	0.00	0.00	0.76	16.50	0.00	0.58	0.24	0.15
POINTLD-2	8.	0.00	0.00	0.00	8.32	0.31	0.00	34.33	0.33	0.01
POINTLD-2	9.	0.00	0.00	13.30	0.81	0.02	0.02	0.08	0.08	0.01
POINTLD-2	10.	0.00	0.00	13.30	0.71	0.02	0.02	0.07	0.06	0.01
POINTLD-2	11.	0.00	0.00	29.30	1.88	1.24	0.02	0.22	0.41	0.63
POINTLD-2	12.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POINTLD-2	13.	0.00	0.00	0.00	0.67	0.04	0.04	0.30	0.15	0.03
POINTLD-2	14.	0.00	0.00	12.20	2.98	1.50	0.00	0.12	0.69	0.70
POINTLD-2	15.	0.00	0.00	0.00	0.67	1.33	0.00	6.36	0.95	0.29
POINTLD-2	16.	0.00	0.00	13.30	0.81	0.02	0.00	0.03	0.06	0.01
POINTLD-2	17.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENDATA11A	0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 12 (DAM CHARACTERISTICS) $$$

```
                            DAM   RCH   ELE    ADAM    BDAM    FDAM    HDAM

        ENDATA12                0.    0.    0.    0.00    0.00    0.00    0.00

         $$$ DATA TYPE 13 (DOWNSTREAM BOUNDARY CONDITIONS-1) $$$

             CARD TYPE               TEMP       D.O.      BOD       CM-1      CM-2      CM-3       ANC      COLI

        ENDATA13                    DOWNSTREAM BOUNDARY CONCENTRATIONS ARE UNCONSTRAINED

         $$$ DATA TYPE 13A (DOWNSTREAM BOUNDARY CONDITIONS-2) $$$

             CARD TYPE               CHL-A     ORG-N     NH3-N     NO2-N     NH3-N     ORG-P     DIS-P

        ENDATA13A                   DOWNSTREAM BOUNDARY CONCENTRATIONS ARE UNCONSTRAINED


STEADY STATE TEMPERATURE SIMULATION; CONVERGENCE SUMMARY:
---------------------------------------------------------

                    NUMBER OF
        ITERATION   NONCONVERGENT
                      ELEMENTS

             1            226
             2              0


SUMMARY OF VALUES FOR STEADY STATE TEMPERATURE CALCULATIONS (SUBROUTINE HEATER):
-------------------------------------------------------------------------------

      DAILY NET SOLAR RADIATION =    2441.383 BTU/FT-2   (  662.519 LANGLEYS)
      NUMBER OF DAYLIGHT HOURS =  13.2


      HOURLY VALUES OF SOLAR RADIATION (BTU/FT-2)

           1     0.00         9   179.27        17   142.53
           2     0.00        10   235.77        18    74.21
           3     0.00        11   278.29        19    10.83
           4     0.00        12   303.02        20     0.00
           5     0.00        13   307.50        21     0.00
           6     0.00        14   291.21        22     0.00
           7    44.23        15   255.91        23     0.00
           8   113.78        16   204.83        24     0.00


STEADY STATE ALGAE/NUTRIENT/DISSOLVED OXYGEN SIMULATION; CONVERGENCE SUMMARY:
-----------------------------------------------------------------------------

                                              NUMBER OF
```

VARIABLE	ITERATION	NONCONVERGENT ELEMENTS	
ALGAE GROWTH RATE	1	332	
ALGAE GROWTH RATE	2	331	
ALGAE GROWTH RATE	3	327	
ALGAE GROWTH RATE	4	308	
ALGAE GROWTH RATE	5	254	
ALGAE GROWTH RATE	6	83	
ALGAE GROWTH RATE	7	10	
ALGAE GROWTH RATE	8	0	
NITRIFICATION INHIBITION	1		0
ALGAE GROWTH RATE	9	0	
NITRIFICATION INHIBITION	2		0

SUMMARY OF CONDITIONS FOR ALGAL GROWTH RATE SIMULATION:

1. LIGHT AVERAGING OPTION. LAVOPT= 3

METHOD: AVERAGE OF HOURLY SOLAR VALUES

SOURCE OF SOLAR VALUES: SUBROUTINE HEATER (SS TEMP)
DAILY NET SOLAR RADIATION: 2441.383 BTU/FT-2 (662.519 LANGLEYS)
NUMBER OF DAYLIGHT HOURS: 13.2
PHOTOSYNTHETIC ACTIVE FRACTION OF SOLAR RADIATION (TFACT): 0.44
MEAN SOLAR RADIATION ADJUSTMENT FACTOR (AFACT): N/A

HOURLY VALUES OF SOLAR RADIATION (LANGLEYS)

1	0.00	9	48.65	17	38.68
2	0.00	10	63.98	18	20.14
3	0.00	11	75.52	19	2.94
4	0.00	12	82.23	20	0.00
5	0.00	13	83.45	21	0.00
6	0.00	14	79.03	22	0.00
7	12.00	15	69.45	23	0.00
8	30.88	16	55.59	24	0.00

2. LIGHT FUNCTION OPTION: LFNOPT= 1

HALF SATURATION METHOD, WITH HALF SATURATION COEF = 0.018 LANGLEYS/MIN

3. GROWTH ATTENUATION OPTION FOR NUTRIENTS. LGROPT= 1

MULTIPLICATIVE: FL*FN*FP

TEMPERATURE ITERATION 11

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	91.17	91.14	91.10	91.07	91.04	91.01	90.99	90.96	90.93	90.90	90.88	90.85	90.82	90.80	90.77	90.75	90.72	90.70	90.68	90.65
2	90.63	90.61	90.59	90.57	90.55	90.53	90.50	90.07	90.06	90.08	90.20	97.72	97.57	97.43	97.28	97.15	96.95	96.82	96.69	96.56
3	96.44	96.32	96.20	96.09	95.96	95.85	95.74	95.63	95.53	95.38	95.28	95.18	95.08	94.99	94.90	94.81	94.72	94.63	94.54	94.46
4	94.37	94.28	94.19	94.10	94.01	93.93	93.85	93.77	93.69	93.61	93.53	93.45	93.38	93.31	93.24	93.17	93.10	93.03	92.96	92.90
5	92.83	92.77	92.70	92.64	92.58	92.52	92.46	92.40	92.34	92.29	92.23	92.18	92.13	92.08	92.03	91.98	91.93	91.88	91.83	91.79
6	91.74	91.69	91.65	91.60	91.55	91.51	91.47	91.42	91.38	91.34	91.30	91.26	91.23	91.19	91.15	91.10	91.06	91.03	91.00	90.96
7	90.93	90.90	90.87	90.94	94.52	94.41	94.30	94.19	94.08	93.98	93.88	93.78	93.68	93.59	93.49	93.40	93.31	93.23	93.14	93.06
8	92.98	92.89	92.81	92.73	92.65	92.57	92.50	92.42	92.35	92.28	92.21	92.15	92.08	92.02	91.96	91.90	91.83	91.57	91.52	91.47
9	91.42	91.38	91.33	91.17	91.13	91.09	91.06	91.02	90.99	90.96	90.92	90.89	90.86	90.83	90.80	90.77	90.74	90.71	90.69	90.66
10	90.63	90.61	90.59	90.56	90.54	90.52	90.50	90.47	90.45	90.43	90.41	90.39	90.37	90.35	90.33	90.32	90.30	90.28	90.26	90.25
11	90.23	90.22	90.20	90.19	90.17	90.16	90.15	90.13	90.12	90.11	90.09	90.08	90.07	90.06	90.05	90.03	90.02	90.01	90.00	89.99
12	89.98	89.97	89.96	89.95	89.94	89.93	89.92	89.92	89.91	89.90	89.89	89.88	89.87	89.87	89.86	89.85	89.84	89.83	89.83	89.82
13	89.81	89.81	89.80	89.79	89.79	89.78	89.77	89.77	89.76	89.76	89.75	89.74	89.74	89.73	89.73	89.72	89.72	89.71	89.71	89.70
14	89.70	89.69	89.69	89.68	89.68	89.67	89.67	89.66	89.66	89.65	89.65	89.64	89.64	89.63	89.63	89.62	89.62	89.62	89.61	89.61
15	89.60	89.60	89.60	89.59	89.59	89.58	89.58	89.58	89.57	89.57	89.57	89.56	89.56	89.55	89.55	89.55	89.55	89.54	89.54	89.54
16	89.53	89.53	89.53	89.52	89.52	89.52	89.52	89.51	89.51	89.51	89.50	89.50	89.50	89.50	89.49	89.49	89.49	89.49	89.49	89.48
17	89.48	89.48	89.48	89.47	89.47	89.47	89.47	89.47	89.46	89.46	89.46	89.46								

DISSOLVED OXYGEN IN MG/L ITERATION 11

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	5.80	5.81	5.81	5.82	5.82	5.83	5.83	5.84	5.84	5.85	5.85	5.86	5.86	5.87	5.88	5.88	5.89	5.89	5.90	5.91
2	5.92	5.93	5.93	5.94	5.95	5.96	5.97	5.99	5.99	6.00	6.01	5.86	5.85	5.84	5.83	5.83	5.78	5.77	5.75	5.73
3	5.72	5.71	5.70	5.70	5.68	5.68	5.67	5.67	5.66	5.66	5.66	5.66	5.66	5.66	5.66	5.66	5.66	5.66	5.66	5.66
4	5.65	5.64	5.63	5.62	5.61	5.60	5.59	5.58	5.58	5.57	5.56	5.55	5.55	5.54	5.54	5.53	5.53	5.52	5.52	5.51
5	5.50	5.48	5.47	5.45	5.43	5.41	5.40	5.38	5.37	5.35	5.34	5.33	5.32	5.30	5.29	5.28	5.27	5.26	5.25	5.24
6	5.23	5.22	5.21	5.21	5.20	5.19	5.18	5.18	5.17	5.16	5.16	5.15	5.15	5.14	5.14	5.14	5.13	5.13	5.12	5.12
7	5.11	5.10	5.09	5.08	5.02	4.99	4.98	4.96	4.94	4.93	4.91	4.90	4.89	4.88	4.87	4.86	4.86	4.85	4.85	4.84
8	4.84	4.84	4.84	4.84	4.84	4.84	4.84	4.84	4.84	4.85	4.85	4.86	4.86	4.86	4.87	4.87	4.88	4.78	4.75	4.73
9	4.71	4.70	4.68	4.60	4.58	4.56	4.55	4.53	4.52	4.51	4.50	4.50	4.49	4.49	4.48	4.48	4.48	4.48	4.48	4.48
10	4.49	4.49	4.50	4.50	4.51	4.51	4.52	4.53	4.53	4.54	4.55	4.56	4.56	4.57	4.58	4.59	4.60	4.60	4.61	4.62
11	4.63	4.64	4.65	4.66	4.67	4.68	4.69	4.70	4.70	4.71	4.72	4.73	4.74	4.75	4.76	4.77	4.78	4.79	4.80	4.81
12	4.80	4.79	4.78	4.77	4.77	4.76	4.75	4.74	4.74	4.73	4.73	4.72	4.72	4.72	4.71	4.71	4.71	4.71	4.71	4.71
13	4.70	4.68	4.66	4.65	4.63	4.62	4.61	4.60	4.59	4.58	4.57	4.56	4.55	4.54	4.54	4.53	4.53	4.52	4.52	4.52
14	4.52	4.52	4.53	4.53	4.54	4.55	4.55	4.56	4.57	4.57	4.58	4.59	4.60	4.61	4.61	4.62	4.63	4.64	4.65	4.66
15	4.67	4.69	4.71	4.73	4.74	4.76	4.78	4.80	4.81	4.83	4.85	4.86	4.88	4.90	4.91	4.93	4.94	4.96	4.97	4.99
16	5.01	5.04	5.07	5.09	5.12	5.15	5.17	5.20	5.22	5.24	5.26	5.29	5.31	5.33	5.35	5.37	5.39	5.41	5.43	5.45
17	5.47	5.50	5.53	5.55	5.57	5.60	5.62	5.64	5.66	5.68	5.70	5.72								

BIOCHEMICAL OXYGEN DEMAND ITERATION 11

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	4.66	4.63	4.59	4.55	4.52	4.48	4.45	4.41	4.38	4.34	4.31	4.28	4.24	4.21	4.18	4.14	4.11	4.08	4.05	4.02
2	3.99	3.96	3.93	3.90	3.87	3.85	3.83	4.09	4.06	4.04	4.01	4.33	4.29	4.26	4.24	4.21	4.21	4.18	4.15	4.12
3	4.13	4.15	4.16	4.18	4.36	4.38	4.39	4.40	4.42	4.44	4.45	4.47	4.48	4.49	4.51	4.52	4.54	4.55	4.56	4.58
4	4.63	4.67	4.71	4.76	4.80	4.84	4.88	4.92	4.96	5.00	5.04	5.08	5.12	5.16	5.20	5.24	5.28	5.32	5.36	5.39
5	5.43	5.47	5.50	5.53	5.56	5.59	5.62	5.65	5.68	5.71	5.74	5.77	5.80	5.83	5.86	5.89	5.92	5.94	5.97	6.00

6	6.01	6.02	6.03	6.04	6.05	6.06	6.07	6.08	6.09	6.10	6.11	6.11	6.12	6.13	6.14	6.20	6.20	6.21	6.22	6.23
7	6.21	6.19	6.18	6.16	6.34	6.31	6.29	6.26	6.23	6.21	6.18	6.16	6.14	6.11	6.09	6.07	6.05	6.03	6.01	5.99
8	5.96	5.94	5.91	5.89	5.87	5.85	5.82	5.80	5.78	5.76	5.74	5.72	5.70	5.68	5.66	5.65	5.71	7.68	7.63	7.59
9	7.55	7.51	7.49	7.82	7.78	7.75	7.71	7.67	7.64	7.60	7.57	7.53	7.50	7.47	7.43	7.40	7.37	7.34	7.31	7.28
10	7.25	7.23	7.21	7.18	7.16	7.14	7.12	7.10	7.08	7.06	7.04	7.02	7.00	6.98	6.96	6.94	6.92	6.91	6.89	6.87
11	6.85	6.82	6.80	6.78	6.76	6.74	6.72	6.70	6.68	6.67	6.65	6.63	6.61	6.59	6.57	6.56	6.54	6.52	6.50	6.49
12	6.46	6.43	6.40	6.37	6.34	6.31	6.28	6.26	6.23	6.20	6.17	6.15	6.12	6.10	6.07	6.05	6.02	6.00	5.97	5.95
13	5.92	5.88	5.84	5.81	5.77	5.74	5.71	5.67	5.64	5.61	5.58	5.55	5.51	5.48	5.45	5.42	5.40	5.37	5.34	5.31
14	5.28	5.24	5.21	5.18	5.15	5.12	5.08	5.05	5.02	4.99	4.96	4.94	4.91	4.88	4.85	4.82	4.80	4.77	4.75	4.72
15	4.69	4.66	4.63	4.60	4.57	4.55	4.52	4.49	4.46	4.44	4.41	4.39	4.36	4.34	4.31	4.29	4.26	4.24	4.22	4.19
16	4.17	4.14	4.12	4.09	4.06	4.04	4.02	3.99	3.97	3.95	3.92	3.90	3.88	3.86	3.84	3.81	3.79	3.77	3.75	3.73
17	3.73	3.73	3.72	3.72	3.72	3.71	3.71	3.71	3.70	3.70	3.70	3.70								

ORGANIC NITROGEN AS N IN MG/L — ITERATION 11

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	0.61	0.61	0.60	0.60	0.60	0.60	0.60	0.60	0.59	0.59	0.59	0.59	0.59	0.59	0.58	0.58	0.58	0.58	0.58	0.58
2	0.57	0.57	0.57	0.57	0.57	0.57	0.56	0.57	0.57	0.57	0.57	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.60	0.60
3	0.60	0.60	0.60	0.60	0.61	0.61	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.59	0.59	0.59	0.59	0.59	0.59	0.58
4	0.58	0.58	0.58	0.58	0.57	0.57	0.57	0.57	0.57	0.56	0.56	0.56	0.56	0.55	0.55	0.55	0.55	0.55	0.54	0.54
5	0.54	0.54	0.54	0.53	0.53	0.53	0.53	0.52	0.52	0.52	0.52	0.51	0.51	0.51	0.51	0.50	0.50	0.50	0.50	0.50
6	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
7	0.50	0.50	0.50	0.51	0.55	0.55	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
8	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.60	0.59	0.59
9	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59
10	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59
11	0.59	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
12	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.54	0.54	0.54	0.54	0.54
13	0.54	0.54	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.51	0.51	0.51	0.51
14	0.51	0.51	0.51	0.51	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
15	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
16	0.47	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.45	0.45	0.45	0.45
17	0.45	0.45	0.45	0.45	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46								

AMMONIA AS N IN MG/L — ITERATION 11

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
2	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.12	0.11	0.11	0.10
3	0.10	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06
4	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03
5	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
6	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
7	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
8	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.06	0.06	0.06
9	0.05	0.05	0.05	0.08	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04
10	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03
11	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
12	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
13	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
14	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

15	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02
16	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
17	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02								

NITRITE AS N IN MG/L — ITERATION 11

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
2	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04
3	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
4	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05
5	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
6	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
7	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
8	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04
9	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
10	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
11	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
12	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
13	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
14	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
15	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
16	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
17	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02								

NITRATE AS N IN MG/L — ITERATION 11

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16
2	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20
3	0.20	0.21	0.21	0.21	0.27	0.27	0.28	0.28	0.28	0.28	0.29	0.29	0.29	0.29	0.30	0.30	0.30	0.30	0.31	0.31
4	0.31	0.32	0.32	0.33	0.33	0.33	0.34	0.34	0.34	0.35	0.35	0.35	0.36	0.36	0.36	0.37	0.37	0.37	0.38	0.38
5	0.38	0.39	0.39	0.39	0.40	0.40	0.40	0.41	0.41	0.41	0.41	0.42	0.42	0.42	0.43	0.43	0.43	0.43	0.44	0.44
6	0.44	0.44	0.45	0.45	0.45	0.45	0.46	0.46	0.46	0.46	0.47	0.47	0.47	0.47	0.48	0.48	0.48	0.48	0.48	0.49
7	0.49	0.49	0.49	0.49	0.45	0.45	0.45	0.46	0.46	0.46	0.47	0.47	0.47	0.47	0.48	0.48	0.48	0.48	0.49	0.49
8	0.49	0.49	0.50	0.50	0.50	0.51	0.51	0.51	0.51	0.52	0.52	0.52	0.52	0.53	0.53	0.53	0.53	0.52	0.53	0.53
9	0.53	0.54	0.55	0.69	0.69	0.69	0.70	0.70	0.71	0.71	0.71	0.72	0.72	0.72	0.73	0.73	0.74	0.74	0.74	0.75
10	0.75	0.75	0.76	0.76	0.76	0.77	0.77	0.77	0.78	0.78	0.78	0.78	0.79	0.79	0.79	0.79	0.80	0.80	0.80	0.80
11	0.81	0.81	0.81	0.81	0.81	0.82	0.82	0.82	0.82	0.82	0.83	0.83	0.83	0.83	0.83	0.84	0.84	0.84	0.84	0.84
12	0.84	0.85	0.85	0.85	0.85	0.85	0.86	0.86	0.86	0.86	0.86	0.87	0.87	0.87	0.87	0.87	0.88	0.88	0.88	0.88
13	0.88	0.89	0.89	0.89	0.89	0.89	0.90	0.90	0.90	0.90	0.90	0.91	0.91	0.91	0.91	0.91	0.92	0.92	0.92	0.92
14	0.92	0.93	0.93	0.93	0.93	0.93	0.93	0.94	0.94	0.94	0.94	0.94	0.94	0.95	0.95	0.95	0.95	0.95	0.95	0.96
15	0.96	0.96	0.96	0.96	0.96	0.96	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.98	0.98	0.98	0.98	0.98	0.98	0.98
16	0.98	0.98	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
17	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99								

ORGANIC PHOSPHORUS AS P IN MG/L — ITERATION 11

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
2	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.06	0.07	0.07	0.07	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09

3	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.15	0.15	0.15
4	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.14	0.14	0.14	0.14	0.14	0.14	0.14
5	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.13	0.13
6	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.12
7	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
8	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12
9	0.12	0.12	0.12	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
10	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
11	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
13	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
14	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
15	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
16	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09	
17	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09								

DISSOLVED PHOSPHORUS AS P IN MG/L — ITERATION 11

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
2	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
3	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
4	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
5	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
6	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
7	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06
8	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.08	0.08	0.08
9	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
10	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
11	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11
12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
13	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
14	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13
15	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
16	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
17	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13								

ALGAE AS CHL-A IN UG/L — ITERATION 11

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	11.66	11.63	11.59	11.55	11.52	11.48	11.45	11.42	11.38	11.35	11.32	11.29	11.26	11.23	11.20	11.17	11.15	11.12	11.09	11.07
2	11.05	11.03	11.01	11.00	10.98	10.97	10.97	11.39	11.38	11.33	11.26	7.29	7.29	7.29	7.32	7.32	7.29	7.31	7.32	7.34
3	7.34	7.35	7.35	7.35	7.35	7.36	7.37	7.38	7.39	7.44	7.45	7.46	7.47	7.49	7.50	7.52	7.53	7.55	7.56	7.58
4	7.57	7.57	7.56	7.56	7.56	7.56	7.56	7.56	7.56	7.57	7.57	7.58	7.58	7.59	7.60	7.60	7.61	7.62	7.63	7.64
5	7.63	7.62	7.61	7.59	7.58	7.58	7.57	7.56	7.56	7.55	7.55	7.54	7.54	7.54	7.54	7.54	7.54	7.54	7.54	7.55
6	7.55	7.56	7.57	7.57	7.58	7.59	7.60	7.61	7.63	7.64	7.65	7.67	7.68	7.70	7.72	7.79	7.81	7.83	7.85	7.88
7	7.90	7.93	7.96	7.93	6.00	6.01	6.03	6.05	6.07	6.09	6.11	6.13	6.15	6.18	6.20	6.23	6.25	6.28	6.31	6.33
8	6.36	6.40	6.43	6.46	6.50	6.54	6.57	6.61	6.65	6.69	6.73	6.77	6.81	6.85	6.90	6.94	6.99	7.19	7.25	7.32
9	7.39	7.45	7.51	7.41	7.49	7.58	7.66	7.74	7.83	7.91	8.00	8.09	8.18	8.27	8.36	8.46	8.55	8.65	8.74	8.84
10	8.94	9.04	9.14	9.24	9.34	9.44	9.55	9.65	9.76	9.87	9.98	10.09	10.20	10.31	10.43	10.55	10.66	10.78	10.90	11.02
11	11.15	11.27	11.39	11.51	11.63	11.75	11.88	12.01	12.13	12.26	12.40	12.53	12.66	12.80	12.93	13.07	13.21	13.35	13.49	13.64

12	13.72	13.80	13.89	13.98	14.07	14.16	14.26	14.35	14.44	14.54	14.63	14.73	14.82	14.92	15.02	15.12	15.22	15.32	15.42	15.52
13	15.59	15.66	15.73	15.81	15.88	15.96	16.03	16.11	16.19	16.26	16.34	16.42	16.50	16.58	16.66	16.74	16.82	16.90	16.99	17.07
14	17.19	17.32	17.44	17.57	17.70	17.83	17.96	18.09	18.22	18.35	18.49	18.62	18.76	18.89	19.03	19.17	19.31	19.44	19.59	19.73
15	19.92	20.12	20.32	20.52	20.72	20.93	21.13	21.34	21.55	21.76	21.97	22.18	22.39	22.61	22.82	23.04	23.26	23.48	23.70	23.94
16	24.32	24.72	25.11	25.51	25.91	26.32	26.73	27.15	27.57	27.99	28.41	28.84	29.28	29.71	30.15	30.60	31.04	31.49	31.95	32.41
17	32.97	33.53	34.10	34.67	35.24	35.82	36.41	37.00	37.59	38.19	38.78	39.34								

ALGAE GROWTH RATES IN PER DAY ARE ITERATION 11

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08
2	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.11	0.11	0.11	0.11	0.11	0.11	0.13	0.13	0.13
3	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
4	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
5	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10
6	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11
7	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
8	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.14	0.14	0.14
9	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
10	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
11	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
13	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
14	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
15	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
17	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16								

PHOTOSYNTHESIS-RESPIRATION RATIOS ARE ITERATION 11

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	0.60	0.60	0.61	0.61	0.61	0.62	0.62	0.62	0.63	0.63	0.63	0.64	0.64	0.64	0.65	0.65	0.65	0.66	0.66	0.66
2	0.71	0.72	0.72	0.72	0.73	0.73	0.73	0.75	0.76	0.76	0.77	0.80	0.80	0.81	0.82	0.84	0.99	0.99	0.99	0.99
3	0.87	0.88	0.88	0.88	0.95	0.95	0.95	0.96	0.96	0.96	0.97	0.98	0.98	0.99	0.99	1.00	1.00	1.01	1.02	1.02
4	0.78	0.79	0.80	0.80	0.81	0.82	0.83	0.83	0.84	0.85	0.86	0.86	0.87	0.88	0.88	0.89	0.90	0.90	0.91	0.91
5	0.73	0.74	0.74	0.75	0.76	0.76	0.77	0.77	0.78	0.79	0.79	0.80	0.80	0.81	0.81	0.82	0.82	0.83	0.83	0.84
6	0.85	0.85	0.86	0.86	0.87	0.87	0.87	0.88	0.88	0.89	0.89	0.90	0.90	0.91	0.91	0.93	0.93	0.94	0.94	0.94
7	0.96	0.96	0.96	0.97	0.92	0.92	0.93	0.93	0.94	0.94	0.95	0.95	0.96	0.96	0.97	0.97	0.97	0.98	0.98	0.99
8	1.00	1.00	1.01	1.01	1.02	1.02	1.03	1.03	1.03	1.04	1.04	1.04	1.05	1.05	1.06	1.06	1.07	1.17	1.17	1.17
9	1.19	1.19	1.19	1.29	1.29	1.29	1.29	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.31	1.31	1.31	1.31	1.31	1.31
10	1.34	1.34	1.34	1.34	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.36	1.36	1.36	1.36	1.36	1.36	1.36
11	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38
12	1.09	1.09	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
13	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	1.00	1.00	1.00	1.00
14	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08
15	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.16	1.16
16	1.42	1.42	1.41	1.41	1.41	1.40	1.40	1.40	1.39	1.39	1.39	1.38	1.38	1.37	1.37	1.37	1.36	1.36	1.36	1.35
17	1.48	1.48	1.47	1.46	1.46	1.45	1.45	1.44	1.44	1.43	1.43	1.42								

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 1
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** HYDRAULICS SUMMARY **

ELE ORD	RCH NUM	ELE NUM	BEGIN LOC MILE	END LOC MILE	FLOW CFS	POINT SRCE CFS	INCR FLOW CFS	VEL FPS	TRVL TIME DAY	DEPTH FT	WIDTH FT	VOLUME K-FT-3	BOTTOM AREA K-FT-2	X-SECT AREA FT-2	DSPRSN COEF FT-2/S
1	1	1	200.38	200.13	802.15	0.00	0.15	0.127	0.120	15.610	403.547	8315.29	573.89	6299.46	5.04
2	1	2	200.13	199.88	802.30	0.00	0.15	0.127	0.120	15.610	403.547	8315.33	573.89	6299.49	5.04
3	1	3	199.88	199.63	802.45	0.00	0.15	0.127	0.120	15.610	403.548	8315.36	573.89	6299.51	5.04
4	1	4	199.63	199.38	802.60	0.00	0.15	0.127	0.120	15.610	403.548	8315.39	573.90	6299.54	5.04
5	1	5	199.38	199.13	802.75	0.00	0.15	0.127	0.120	15.610	403.549	8315.42	573.90	6299.56	5.04
6	1	6	199.13	198.88	802.90	0.00	0.15	0.127	0.120	15.610	403.549	8315.46	573.90	6299.59	5.04
7	1	7	198.88	198.63	803.05	0.00	0.15	0.127	0.120	15.611	403.549	8315.49	573.90	6299.61	5.04
8	1	8	198.63	198.38	803.20	0.00	0.15	0.127	0.120	15.611	403.550	8315.52	573.90	6299.64	5.05
9	1	9	198.38	198.13	803.35	0.00	0.15	0.128	0.120	15.611	403.550	8315.55	573.90	6299.66	5.05
10	1	10	198.13	197.88	803.50	0.00	0.15	0.128	0.120	15.611	403.550	8315.59	573.90	6299.69	5.05
11	1	11	197.88	197.63	803.65	0.00	0.15	0.128	0.120	15.611	403.551	8315.62	573.90	6299.71	5.05
12	1	12	197.63	197.38	803.80	0.00	0.15	0.128	0.120	15.611	403.551	8315.65	573.90	6299.74	5.05
13	1	13	197.38	197.13	803.95	0.00	0.15	0.128	0.120	15.611	403.552	8315.69	573.90	6299.76	5.05
14	1	14	197.13	196.88	804.10	0.00	0.15	0.128	0.120	15.611	403.552	8315.72	573.90	6299.79	5.05
15	1	15	196.88	196.63	804.25	0.00	0.15	0.128	0.120	15.611	403.552	8315.75	573.90	6299.81	5.05
16	1	16	196.63	196.38	804.40	0.00	0.15	0.128	0.120	15.611	403.553	8315.78	573.90	6299.84	5.05
17	1	17	196.38	196.13	804.55	0.00	0.15	0.128	0.120	15.611	403.553	8315.82	573.90	6299.86	5.05
18	1	18	196.13	195.88	804.70	0.00	0.15	0.128	0.120	15.611	403.553	8315.85	573.90	6299.89	5.05
19	1	19	195.88	195.63	804.85	0.00	0.15	0.128	0.120	15.611	403.554	8315.88	573.90	6299.91	5.06
20	1	20	195.63	195.38	805.00	0.00	0.15	0.128	0.120	15.611	403.554	8315.92	573.90	6299.94	5.06
21	2	1	195.38	195.13	805.15	0.00	0.15	0.137	0.112	14.558	403.976	7763.19	571.68	5881.20	5.11
22	2	2	195.13	194.88	805.30	0.00	0.15	0.137	0.112	14.558	403.977	7763.21	571.68	5881.22	5.11
23	2	3	194.88	194.63	805.45	0.00	0.15	0.137	0.112	14.558	403.977	7763.23	571.68	5881.24	5.11
24	2	4	194.63	194.38	805.60	0.00	0.15	0.137	0.112	14.558	403.977	7763.26	571.68	5881.25	5.11
25	2	5	194.38	194.13	805.75	0.00	0.15	0.137	0.112	14.558	403.977	7763.28	571.68	5881.27	5.12
26	2	6	194.13	193.88	805.90	0.00	0.15	0.137	0.111	14.558	403.977	7763.30	571.68	5881.29	5.12
27	2	7	193.88	193.63	806.05	0.00	0.15	0.137	0.111	14.558	403.978	7763.33	571.68	5881.31	5.12
28	2	8	193.63	193.38	866.20	60.00	0.15	0.147	0.104	14.573	404.056	7772.38	571.83	5888.17	5.50
29	2	9	193.38	193.13	855.73	-10.62	0.15	0.145	0.105	14.570	404.043	7770.85	571.80	5887.01	5.43
30	2	10	193.13	192.88	858.28	2.40	0.15	0.146	0.105	14.571	404.046	7771.23	571.81	5887.29	5.45
31	2	11	192.88	192.63	550.89	-307.54	0.15	0.094	0.162	14.484	403.564	7715.61	570.94	5845.16	3.50
32	2	12	192.63	192.38	858.58	307.54	0.15	0.146	0.105	14.571	404.046	7771.27	571.81	5887.33	5.45
33	2	13	192.38	192.13	858.73	0.00	0.15	0.146	0.105	14.571	404.046	7771.29	571.81	5887.34	5.45
34	2	14	192.13	191.88	858.88	0.00	0.15	0.146	0.105	14.571	404.047	7771.31	571.81	5887.36	5.45
35	2	15	191.88	191.63	859.32	0.29	0.15	0.146	0.105	14.571	404.047	7771.38	571.81	5887.41	5.45
36	2	16	191.63	191.38	859.47	0.00	0.15	0.146	0.105	14.571	404.047	7771.40	571.81	5887.42	5.45
37	2	17	191.38	191.13	864.44	4.82	0.15	0.147	0.104	14.572	404.054	7772.13	571.82	5887.97	5.49
38	2	18	191.13	190.88	864.59	0.00	0.15	0.147	0.104	14.572	404.054	7772.15	571.82	5887.99	5.49
39	2	19	190.88	190.63	864.74	0.00	0.15	0.147	0.104	14.572	404.054	7772.17	571.82	5888.01	5.49

40	2	20	190.63	190.38	864.89	0.00	0.15	0.147	0.104	14.572	404.054	7772.19	571.82	5888.02	5.49
41	3	1	190.38	190.13	865.04	0.00	0.15	0.161	0.095	13.472	399.002	7095.43	562.25	5375.33	5.63
42	3	2	190.13	189.88	865.19	0.00	0.15	0.161	0.095	13.472	399.003	7095.46	562.25	5375.34	5.63

***** STEADY STATE SIMULATION *****

** HYDRAULICS SUMMARY **

ELE ORD	RCH NUM	ELE NUM	BEGIN LOC MILE	END LOC MILE	FLOW CFS	POINT SRCE CFS	INCR FLOW CFS	VEL FPS	TRVL TIME DAY	DEPTH FT	WIDTH FT	VOLUME K-FT-3	BOTTOM AREA K-FT-2	X-SECT AREA FT-2	DSPRSN COEF FT-2/S
43	3	3	189.88	189.63	865.34	0.00	0.15	0.161	0.095	13.472	399.003	7095.48	562.25	5375.36	5.63
44	3	4	189.63	189.38	865.49	0.00	0.15	0.161	0.095	13.472	399.004	7095.51	562.25	5375.38	5.64
45	3	5	189.38	189.13	867.09	1.45	0.15	0.161	0.095	13.472	399.010	7095.77	562.26	5375.59	5.65
46	3	6	189.13	188.88	867.24	0.00	0.15	0.161	0.095	13.472	399.010	7095.80	562.26	5375.60	5.65
47	3	7	188.88	188.63	867.39	0.00	0.15	0.161	0.095	13.472	399.011	7095.82	562.26	5375.62	5.65
48	3	8	188.63	188.38	867.54	0.00	0.15	0.161	0.095	13.472	399.011	7095.85	562.26	5375.64	5.65
49	3	9	188.38	188.13	867.69	0.00	0.15	0.161	0.095	13.472	399.012	7095.88	562.26	5375.66	5.65
50	3	10	188.13	187.88	872.64	4.80	0.15	0.162	0.094	13.473	399.031	7096.70	562.29	5376.29	5.68
51	3	11	187.88	187.63	872.79	0.00	0.15	0.162	0.094	13.473	399.031	7096.73	562.29	5376.31	5.68
52	3	12	187.63	187.38	872.94	0.00	0.15	0.162	0.094	13.473	399.032	7096.75	562.29	5376.33	5.68
53	3	13	187.38	187.13	873.09	0.00	0.15	0.162	0.094	13.473	399.032	7096.78	562.29	5376.35	5.68
54	3	14	187.13	186.88	873.24	0.00	0.15	0.162	0.094	13.473	399.033	7096.80	562.29	5376.37	5.69
55	3	15	186.88	186.63	873.39	0.00	0.15	0.162	0.094	13.474	399.034	7096.83	562.29	5376.38	5.69
56	3	16	186.63	186.38	873.54	0.00	0.15	0.162	0.094	13.474	399.034	7096.85	562.30	5376.40	5.69
57	3	17	186.38	186.13	873.69	0.00	0.15	0.163	0.094	13.474	399.035	7096.88	562.30	5376.42	5.69
58	3	18	186.13	185.88	873.84	0.00	0.15	0.163	0.094	13.474	399.035	7096.90	562.30	5376.44	5.69
59	3	19	185.88	185.63	873.99	0.00	0.15	0.163	0.094	13.474	399.036	7096.93	562.30	5376.46	5.69
60	3	20	185.63	185.38	874.14	0.00	0.15	0.163	0.094	13.474	399.036	7096.95	562.30	5376.48	5.69
61	4	1	185.38	185.13	874.29	0.00	0.15	0.111	0.138	17.784	444.549	10435.96	633.76	7906.03	4.88
62	4	2	185.13	184.88	874.44	0.00	0.15	0.111	0.138	17.784	444.549	10435.99	633.76	7906.05	4.88
63	4	3	184.88	184.63	874.59	0.00	0.15	0.111	0.138	17.784	444.549	10436.02	633.76	7906.07	4.88
64	4	4	184.63	184.38	874.74	0.00	0.15	0.111	0.138	17.785	444.550	10436.05	633.76	7906.10	4.88
65	4	5	184.38	184.13	874.89	0.00	0.15	0.111	0.138	17.785	444.550	10436.08	633.76	7906.12	4.88
66	4	6	184.13	183.88	875.04	0.00	0.15	0.111	0.138	17.785	444.550	10436.11	633.76	7906.15	4.88
67	4	7	183.88	183.63	875.19	0.00	0.15	0.111	0.138	17.785	444.550	10436.15	633.76	7906.17	4.88
68	4	8	183.63	183.38	875.34	0.00	0.15	0.111	0.138	17.785	444.550	10436.18	633.76	7906.19	4.88
69	4	9	183.38	183.13	875.49	0.00	0.15	0.111	0.138	17.785	444.551	10436.21	633.76	7906.22	4.88
70	4	10	183.13	182.88	875.64	0.00	0.15	0.111	0.138	17.785	444.551	10436.24	633.76	7906.24	4.89
71	4	11	182.88	182.63	875.79	0.00	0.15	0.111	0.138	17.785	444.551	10436.27	633.76	7906.27	4.89
72	4	12	182.63	182.38	875.94	0.00	0.15	0.111	0.138	17.785	444.551	10436.30	633.76	7906.29	4.89
73	4	13	182.38	182.13	876.09	0.00	0.15	0.111	0.138	17.785	444.551	10436.33	633.76	7906.31	4.89
74	4	14	182.13	181.88	876.24	0.00	0.15	0.111	0.138	17.785	444.552	10436.37	633.76	7906.34	4.89
75	4	15	181.88	181.63	876.39	0.00	0.15	0.111	0.138	17.785	444.552	10436.40	633.76	7906.36	4.89

76	4	16	181.63	181.38	876.54	0.00	0.15	0.111	0.138	17.785	444.552	10436.43	633.76	7906.38	4.89
77	4	17	181.38	181.13	876.69	0.00	0.15	0.111	0.138	17.785	444.552	10436.46	633.76	7906.41	4.89
78	4	18	181.13	180.88	876.84	0.00	0.15	0.111	0.138	17.785	444.553	10436.49	633.76	7906.43	4.89
79	4	19	180.88	180.63	876.99	0.00	0.15	0.111	0.138	17.785	444.553	10436.52	633.76	7906.46	4.89
80	4	20	180.63	180.38	877.14	0.00	0.15	0.111	0.138	17.785	444.553	10436.55	633.76	7906.48	4.89
81	5	1	180.38	180.13	877.29	0.00	0.15	0.084	0.181	22.466	463.328	13740.34	670.90	10409.34	4.52
82	5	2	180.13	179.88	877.44	0.00	0.15	0.084	0.181	22.467	463.328	13740.37	670.90	10409.37	4.52
83	5	3	179.88	179.63	877.59	0.00	0.15	0.084	0.181	22.467	463.329	13740.40	670.91	10409.40	4.52
84	5	4	179.63	179.38	877.74	0.00	0.15	0.084	0.181	22.467	463.329	13740.44	670.91	10409.42	4.52

***** STEADY STATE SIMULATION *****

** HYDRAULICS SUMMARY **

ELE ORD	RCH NUM	ELE NUM	BEGIN LOC MILE	END LOC MILE	FLOW CFS	POINT SRCE CFS	INCR FLOW CFS	VEL FPS	TRVL TIME DAY	DEPTH FT	WIDTH FT	VOLUME K-FT-3	BOTTOM AREA K-FT-2	X-SECT AREA FT-2	DSPRSN COEF FT-2/S
85	5	5	179.38	179.13	877.89	0.00	0.15	0.084	0.181	22.467	463.330	13740.47	670.91	10409.45	4.52
86	5	6	179.13	178.88	878.04	0.00	0.15	0.084	0.181	22.467	463.330	13740.50	670.91	10409.47	4.52
87	5	7	178.88	178.63	878.19	0.00	0.15	0.084	0.181	22.467	463.330	13740.53	670.91	10409.50	4.52
88	5	8	178.63	178.38	878.34	0.00	0.15	0.084	0.181	22.467	463.331	13740.57	670.91	10409.52	4.52
89	5	9	178.38	178.13	878.49	0.00	0.15	0.084	0.181	22.467	463.331	13740.60	670.91	10409.55	4.52
90	5	10	178.13	177.88	878.64	0.00	0.15	0.084	0.181	22.467	463.332	13740.63	670.91	10409.57	4.52
91	5	11	177.88	177.63	878.79	0.00	0.15	0.084	0.181	22.467	463.332	13740.67	670.91	10409.60	4.52
92	5	12	177.63	177.38	878.94	0.00	0.15	0.084	0.181	22.467	463.333	13740.70	670.91	10409.62	4.52
93	5	13	177.38	177.13	879.09	0.00	0.15	0.084	0.181	22.467	463.333	13740.73	670.91	10409.65	4.53
94	5	14	177.13	176.88	879.24	0.00	0.15	0.084	0.181	22.467	463.333	13740.77	670.91	10409.67	4.53
95	5	15	176.88	176.63	879.39	0.00	0.15	0.084	0.181	22.467	463.334	13740.80	670.91	10409.70	4.53
96	5	16	176.63	176.38	879.54	0.00	0.15	0.084	0.181	22.467	463.334	13740.83	670.91	10409.72	4.53
97	5	17	176.38	176.13	879.69	0.00	0.15	0.085	0.181	22.467	463.335	13740.86	670.91	10409.75	4.53
98	5	18	176.13	175.88	879.84	0.00	0.15	0.085	0.181	22.467	463.335	13740.90	670.92	10409.77	4.53
99	5	19	175.88	175.63	879.99	0.00	0.15	0.085	0.181	22.467	463.336	13740.93	670.92	10409.80	4.53
100	5	20	175.63	175.38	880.14	0.00	0.15	0.085	0.181	22.467	463.336	13740.96	670.92	10409.82	4.53
101	6	1	175.38	175.13	880.29	0.00	0.15	0.077	0.197	22.414	506.881	14996.64	728.25	11361.09	4.14
102	6	2	175.13	174.88	880.44	0.00	0.15	0.077	0.197	22.414	506.881	14996.66	728.25	11361.11	4.14
103	6	3	174.88	174.63	880.59	0.00	0.15	0.078	0.197	22.414	506.881	14996.68	728.26	11361.12	4.15
104	6	4	174.63	174.38	880.74	0.00	0.15	0.078	0.197	22.414	506.881	14996.70	728.26	11361.14	4.15
105	6	5	174.38	174.13	880.89	0.00	0.15	0.078	0.197	22.414	506.882	14996.72	728.26	11361.15	4.15
106	6	6	174.13	173.88	881.04	0.00	0.15	0.078	0.197	22.414	506.882	14996.74	728.26	11361.17	4.15
107	6	7	173.88	173.63	881.19	0.00	0.15	0.078	0.197	22.414	506.882	14996.76	728.26	11361.18	4.15
108	6	8	173.63	173.38	881.34	0.00	0.15	0.078	0.197	22.414	506.882	14996.78	728.26	11361.20	4.15
109	6	9	173.38	173.13	881.49	0.00	0.15	0.078	0.197	22.414	506.883	14996.80	728.26	11361.21	4.15
110	6	10	173.13	172.88	881.64	0.00	0.15	0.078	0.197	22.414	506.883	14996.82	728.26	11361.23	4.15
111	6	11	172.88	172.63	881.79	0.00	0.15	0.078	0.197	22.414	506.883	14996.84	728.26	11361.24	4.15

112	6	12	172.63	172.38	881.94	0.00	0.15	0.078	0.197	22.414	506.883	14996.86	728.26	11361.26	4.15
113	6	13	172.38	172.13	882.09	0.00	0.15	0.078	0.197	22.414	506.884	14996.88	728.26	11361.27	4.15
114	6	14	172.13	171.88	882.24	0.00	0.15	0.078	0.197	22.414	506.884	14996.90	728.26	11361.29	4.15
115	6	15	171.88	171.63	882.39	0.00	0.15	0.078	0.197	22.414	506.884	14996.92	728.26	11361.30	4.15
116	6	16	171.63	171.38	884.94	2.40	0.15	0.078	0.196	22.414	506.889	14997.26	728.27	11361.56	4.17
117	6	17	171.38	171.13	885.09	0.00	0.15	0.078	0.196	22.414	506.889	14997.28	728.27	11361.57	4.17
118	6	18	171.13	170.88	885.24	0.00	0.15	0.078	0.196	22.414	506.889	14997.30	728.27	11361.59	4.17
119	6	19	170.88	170.63	885.39	0.00	0.15	0.078	0.196	22.414	506.889	14997.32	728.27	11361.60	4.17
120	6	20	170.63	170.38	885.54	0.00	0.15	0.078	0.196	22.414	506.890	14997.34	728.27	11361.62	4.17
121	7	1	170.38	170.13	885.69	0.00	0.15	0.073	0.210	22.173	548.449	16051.94	782.49	12160.56	3.86
122	7	2	170.13	169.88	885.84	0.00	0.15	0.073	0.210	22.173	548.449	16051.96	782.49	12160.58	3.86
123	7	3	169.88	169.63	885.99	0.00	0.15	0.073	0.210	22.173	548.450	16051.98	782.49	12160.59	3.86
124	7	4	169.63	169.38	661.84	-224.30	0.15	0.055	0.280	22.152	547.902	16021.11	781.71	12137.20	2.89
125	7	5	169.38	169.13	886.29	224.30	0.15	0.073	0.210	22.173	548.450	16052.02	782.49	12160.62	3.86
126	7	6	169.13	168.88	886.44	0.00	0.15	0.073	0.210	22.173	548.451	16052.03	782.49	12160.63	3.86

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 4
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** HYDRAULICS SUMMARY **

ELE ORD	RCH NUM	ELE NUM	BEGIN LOC MILE	END LOC MILE	FLOW CFS	POINT SRCE CFS	INCR FLOW CFS	VEL FPS	TRVL TIME DAY	DEPTH FT	WIDTH FT	VOLUME K-FT-3	BOTTOM AREA K-FT-2	X-SECT AREA FT-2	DSPRSN COEF FT-2/S
127	7	7	168.88	168.63	886.59	0.00	0.15	0.073	0.210	22.173	548.451	16052.05	782.49	12160.64	3.86
128	7	8	168.63	168.38	886.74	0.00	0.15	0.073	0.210	22.173	548.451	16052.07	782.49	12160.66	3.87
129	7	9	168.38	168.13	886.89	0.00	0.15	0.073	0.209	22.173	548.452	16052.09	782.49	12160.67	3.87
130	7	10	168.13	167.88	887.04	0.00	0.15	0.073	0.209	22.173	548.452	16052.10	782.49	12160.68	3.87
131	7	11	167.88	167.63	887.19	0.00	0.15	0.073	0.209	22.173	548.452	16052.12	782.49	12160.70	3.87
132	7	12	167.63	167.38	887.34	0.00	0.15	0.073	0.209	22.173	548.453	16052.14	782.49	12160.71	3.87
133	7	13	167.38	167.13	887.49	0.00	0.15	0.073	0.209	22.173	548.453	16052.16	782.49	12160.73	3.87
134	7	14	167.13	166.88	887.64	0.00	0.15	0.073	0.209	22.173	548.453	16052.18	782.49	12160.74	3.87
135	7	15	166.88	166.63	887.79	0.00	0.15	0.073	0.209	22.173	548.453	16052.19	782.49	12160.75	3.87
136	7	16	166.63	166.38	887.94	0.00	0.15	0.073	0.209	22.173	548.454	16052.21	782.50	12160.77	3.87
137	7	17	166.38	166.13	888.09	0.00	0.15	0.073	0.209	22.173	548.454	16052.23	782.50	12160.78	3.87
138	7	18	166.13	165.88	888.24	0.00	0.15	0.073	0.209	22.173	548.454	16052.25	782.50	12160.79	3.87
139	7	19	165.88	165.63	888.39	0.00	0.15	0.073	0.209	22.173	548.455	16052.27	782.50	12160.81	3.87
140	7	20	165.63	165.38	888.54	0.00	0.15	0.073	0.209	22.173	548.455	16052.28	782.50	12160.82	3.87
141	8	1	165.38	165.13	888.69	0.00	0.15	0.068	0.223	21.982	590.385	17130.54	837.34	12977.68	3.60
142	8	2	165.13	164.88	888.84	0.00	0.15	0.068	0.223	21.982	590.385	17130.55	837.34	12977.69	3.60
143	8	3	164.88	164.63	888.99	0.00	0.15	0.069	0.223	21.982	590.386	17130.57	837.34	12977.70	3.60
144	8	4	164.63	164.38	889.14	0.00	0.15	0.069	0.223	21.982	590.386	17130.58	837.34	12977.71	3.61
145	8	5	164.38	164.13	889.29	0.00	0.15	0.069	0.223	21.982	590.386	17130.59	837.34	12977.72	3.61
146	8	6	164.13	163.88	889.44	0.00	0.15	0.069	0.223	21.982	590.386	17130.61	837.34	12977.73	3.61
147	8	7	163.88	163.63	889.59	0.00	0.15	0.069	0.223	21.982	590.386	17130.62	837.34	12977.74	3.61

148	8	8	163.63	163.38	889.74	0.00	0.15	0.069	0.223	21.982	590.387	17130.63	837.34	12977.75	3.61
149	8	9	163.38	163.13	889.89	0.00	0.15	0.069	0.223	21.982	590.387	17130.64	837.34	12977.76	3.61
150	8	10	163.13	162.88	890.04	0.00	0.15	0.069	0.223	21.982	590.387	17130.66	837.34	12977.77	3.61
151	8	11	162.88	162.63	890.19	0.00	0.15	0.069	0.223	21.982	590.387	17130.67	837.34	12977.78	3.61
152	8	12	162.63	162.38	890.34	0.00	0.15	0.069	0.223	21.982	590.388	17130.69	837.34	12977.79	3.61
153	8	13	162.38	162.13	890.49	0.00	0.15	0.069	0.223	21.982	590.388	17130.70	837.34	12977.80	3.61
154	8	14	162.13	161.88	890.64	0.00	0.15	0.069	0.223	21.982	590.388	17130.71	837.34	12977.81	3.61
155	8	15	161.88	161.63	890.79	0.00	0.15	0.069	0.223	21.982	590.388	17130.72	837.34	12977.82	3.61
156	8	16	161.63	161.38	890.94	0.00	0.15	0.069	0.223	21.982	590.388	17130.74	837.34	12977.83	3.61
157	8	17	161.38	161.13	891.09	0.00	0.15	0.069	0.223	21.982	590.389	17130.75	837.35	12977.84	3.61
158	8	18	161.13	160.88	915.01	23.77	0.15	0.070	0.217	21.983	590.420	17132.84	837.39	12979.42	3.71
159	8	19	160.88	160.63	915.16	0.00	0.15	0.071	0.217	21.983	590.420	17132.85	837.39	12979.43	3.71
160	8	20	160.63	160.38	915.31	0.00	0.15	0.071	0.217	21.983	590.420	17132.87	837.39	12979.44	3.71
161	9	1	160.38	160.13	915.46	0.00	0.15	0.076	0.202	21.797	555.312	15977.65	790.56	12104.28	3.95
162	9	2	160.13	159.88	915.61	0.00	0.15	0.076	0.202	21.797	555.313	15977.66	790.56	12104.29	3.95
163	9	3	159.88	159.63	915.76	0.00	0.15	0.076	0.202	21.797	555.313	15977.67	790.56	12104.29	3.95
164	9	4	159.63	159.38	939.12	23.21	0.15	0.078	0.197	21.798	555.350	15979.28	790.61	12105.51	4.05
165	9	5	159.38	159.13	939.27	0.00	0.15	0.078	0.197	21.798	555.350	15979.29	790.61	12105.52	4.05
166	9	6	159.13	158.88	939.42	0.00	0.15	0.078	0.197	21.798	555.351	15979.30	790.61	12105.53	4.06
167	9	7	158.88	158.63	939.57	0.00	0.15	0.078	0.197	21.798	555.351	15979.31	790.61	12105.54	4.06
168	9	8	158.63	158.38	939.72	0.00	0.15	0.078	0.197	21.798	555.351	15979.32	790.61	12105.54	4.06

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***** STEADY STATE SIMULATION *****

** HYDRAULICS SUMMARY **

ELE ORD	RCH NUM	ELE NUM	BEGIN LOC MILE	END LOC MILE	FLOW CFS	POINT SRCE CFS	INCR FLOW CFS	VEL FPS	TRVL TIME DAY	DEPTH FT	WIDTH FT	VOLUME K-FT-3	BOTTOM AREA K-FT-2	X-SECT AREA FT-2	DSPRSN COEF FT-2/S
169	9	9	158.38	158.13	939.87	0.00	0.15	0.078	0.197	21.798	555.351	15979.33	790.61	12105.55	4.06
170	9	10	158.13	157.88	940.02	0.00	0.15	0.078	0.197	21.798	555.352	15979.34	790.61	12105.56	4.06
171	9	11	157.88	157.63	940.17	0.00	0.15	0.078	0.197	21.798	555.352	15979.35	790.61	12105.57	4.06
172	9	12	157.63	157.38	940.32	0.00	0.15	0.078	0.197	21.798	555.352	15979.36	790.61	12105.58	4.06
173	9	13	157.38	157.13	940.47	0.00	0.15	0.078	0.197	21.798	555.352	15979.37	790.61	12105.58	4.06
174	9	14	157.13	156.88	940.62	0.00	0.15	0.078	0.197	21.798	555.352	15979.38	790.61	12105.59	4.06
175	9	15	156.88	156.63	940.77	0.00	0.15	0.078	0.197	21.798	555.353	15979.39	790.61	12105.60	4.06
176	9	16	156.63	156.38	940.92	0.00	0.15	0.078	0.197	21.798	555.353	15979.40	790.61	12105.61	4.06
177	9	17	156.38	156.13	941.07	0.00	0.15	0.078	0.197	21.798	555.353	15979.41	790.61	12105.61	4.06
178	9	18	156.13	155.88	941.22	0.00	0.15	0.078	0.196	21.798	555.353	15979.42	790.61	12105.62	4.06
179	9	19	155.88	155.63	941.37	0.00	0.15	0.078	0.196	21.798	555.354	15979.43	790.61	12105.63	4.06
180	9	20	155.63	155.38	941.52	0.00	0.15	0.078	0.196	21.798	555.354	15979.44	790.61	12105.64	4.06
181	10	1	155.38	155.13	941.67	0.00	0.15	0.084	0.181	21.392	522.656	14758.15	746.38	11180.42	4.33
182	10	2	155.13	154.88	941.82	0.00	0.15	0.084	0.181	21.392	522.656	14758.16	746.38	11180.43	4.33
183	10	3	154.88	154.63	941.97	0.00	0.15	0.084	0.181	21.392	522.656	14758.17	746.38	11180.43	4.33

184	10	4	154.63	154.38	942.12	0.00	0.15	0.084	0.181	21.392	522.656	14758.18	746.38	11180.44	4.34
185	10	5	154.38	154.13	942.27	0.00	0.15	0.084	0.181	21.392	522.657	14758.19	746.38	11180.45	4.34
186	10	6	154.13	153.88	942.42	0.00	0.15	0.084	0.181	21.392	522.657	14758.20	746.38	11180.45	4.34
187	10	7	153.88	153.63	942.57	0.00	0.15	0.084	0.181	21.392	522.657	14758.21	746.38	11180.46	4.34
188	10	8	153.63	153.38	943.22	0.50	0.15	0.084	0.181	21.392	522.658	14758.25	746.38	11180.49	4.34
189	10	9	153.38	153.13	943.37	0.00	0.15	0.084	0.181	21.392	522.658	14758.25	746.38	11180.50	4.34
190	10	10	153.13	152.88	943.52	0.00	0.15	0.084	0.181	21.392	522.658	14758.26	746.38	11180.50	4.34
191	10	11	152.88	152.63	943.67	0.00	0.15	0.084	0.181	21.392	522.658	14758.27	746.38	11180.51	4.34
192	10	12	152.63	152.38	943.82	0.00	0.15	0.084	0.181	21.392	522.658	14758.28	746.38	11180.52	4.34
193	10	13	152.38	152.13	943.97	0.00	0.15	0.084	0.181	21.392	522.658	14758.29	746.38	11180.52	4.34
194	10	14	152.13	151.88	944.12	0.00	0.15	0.084	0.181	21.392	522.658	14758.30	746.38	11180.53	4.34
195	10	15	151.88	151.63	944.27	0.00	0.15	0.084	0.181	21.392	522.659	14758.31	746.38	11180.54	4.34
196	10	16	151.63	151.38	944.42	0.00	0.15	0.084	0.181	21.392	522.659	14758.32	746.38	11180.54	4.35
197	10	17	151.38	151.13	944.57	0.00	0.15	0.084	0.181	21.392	522.659	14758.33	746.38	11180.55	4.35
198	10	18	151.13	150.88	944.72	0.00	0.15	0.084	0.181	21.392	522.659	14758.33	746.38	11180.56	4.35
199	10	19	150.88	150.63	944.87	0.00	0.15	0.085	0.181	21.392	522.659	14758.34	746.38	11180.56	4.35
200	10	20	150.63	150.38	945.02	0.00	0.15	0.085	0.181	21.392	522.659	14758.35	746.38	11180.57	4.35
201	11	1	150.38	150.13	945.17	0.00	0.15	0.091	0.167	21.116	489.436	13642.24	701.80	10335.03	4.65
202	11	2	150.13	149.88	945.32	0.00	0.15	0.091	0.167	21.116	489.437	13642.25	701.80	10335.04	4.66
203	11	3	149.88	149.63	945.47	0.00	0.15	0.091	0.167	21.116	489.437	13642.26	701.80	10335.04	4.66
204	11	4	149.63	149.38	945.62	0.00	0.15	0.091	0.167	21.116	489.437	13642.26	701.80	10335.05	4.66
205	11	5	149.38	149.13	945.77	0.00	0.15	0.092	0.167	21.116	489.437	13642.27	701.80	10335.05	4.66
206	11	6	149.13	148.88	945.92	0.00	0.15	0.092	0.167	21.116	489.437	13642.27	701.80	10335.06	4.66
207	11	7	148.88	148.63	946.07	0.00	0.15	0.092	0.167	21.116	489.437	13642.28	701.80	10335.06	4.66
208	11	8	148.63	148.38	946.22	0.00	0.15	0.092	0.167	21.116	489.437	13642.29	701.80	10335.07	4.66
209	11	9	148.38	148.13	946.37	0.00	0.15	0.092	0.167	21.116	489.437	13642.29	701.80	10335.07	4.66
210	11	10	148.13	147.88	946.52	0.00	0.15	0.092	0.167	21.116	489.437	13642.30	701.80	10335.08	4.66

***** STEADY STATE SIMULATION *****

** HYDRAULICS SUMMARY **

ELE ORD	RCH NUM	ELE NUM	BEGIN LOC MILE	END LOC MILE	FLOW CFS	POINT SRCE CFS	INCR FLOW CFS	VEL FPS	TRVL TIME DAY	DEPTH FT	WIDTH FT	VOLUME K-FT-3	BOTTOM AREA K-FT-2	X-SECT AREA FT-2	DSPRSN COEF FT-2/S
211	11	11	147.88	147.63	946.67	0.00	0.15	0.092	0.167	21.116	489.438	13642.31	701.80	10335.08	4.66
212	11	12	147.63	147.38	946.82	0.00	0.15	0.092	0.167	21.116	489.438	13642.31	701.80	10335.08	4.66
213	11	13	147.38	147.13	946.97	0.00	0.15	0.092	0.167	21.116	489.438	13642.32	701.80	10335.09	4.66
214	11	14	147.13	146.88	947.12	0.00	0.15	0.092	0.167	21.116	489.438	13642.32	701.80	10335.09	4.66
215	11	15	146.88	146.63	947.27	0.00	0.15	0.092	0.167	21.116	489.438	13642.33	701.81	10335.10	4.66
216	11	16	146.63	146.38	947.42	0.00	0.15	0.092	0.167	21.116	489.438	13642.34	701.81	10335.10	4.67
217	11	17	146.38	146.13	947.57	0.00	0.15	0.092	0.167	21.116	489.438	13642.34	701.81	10335.11	4.67
218	11	18	146.13	145.88	947.72	0.00	0.15	0.092	0.167	21.116	489.438	13642.35	701.81	10335.11	4.67
219	11	19	145.88	145.63	947.87	0.00	0.15	0.092	0.167	21.116	489.438	13642.36	701.81	10335.12	4.67
220	11	20	145.63	145.38	948.02	0.00	0.15	0.092	0.167	21.116	489.439	13642.36	701.81	10335.12	4.67

221	12	1	145.38	145.13	948.17	0.00	0.15	0.076	0.202	26.747	467.747	16514.48	688.04	12510.97	4.70
222	12	2	145.13	144.88	948.33	0.00	0.15	0.076	0.202	26.747	467.747	16514.48	688.04	12510.97	4.70
223	12	3	144.88	144.63	948.48	0.00	0.15	0.076	0.202	26.747	467.747	16514.49	688.04	12510.98	4.70
224	12	4	144.63	144.38	948.63	0.00	0.15	0.076	0.201	26.747	467.748	16514.50	688.04	12510.98	4.70
225	12	5	144.38	144.13	948.78	0.00	0.15	0.076	0.201	26.747	467.748	16514.50	688.04	12510.99	4.70
226	12	6	144.13	143.88	948.93	0.00	0.15	0.076	0.201	26.747	467.748	16514.51	688.04	12510.99	4.70
227	12	7	143.88	143.63	949.08	0.00	0.15	0.076	0.201	26.747	467.748	16514.51	688.04	12511.00	4.70
228	12	8	143.63	143.38	949.23	0.00	0.15	0.076	0.201	26.747	467.748	16514.52	688.04	12511.00	4.70
229	12	9	143.38	143.13	949.38	0.00	0.15	0.076	0.201	26.747	467.748	16514.53	688.04	12511.00	4.70
230	12	10	143.13	142.88	949.53	0.00	0.15	0.076	0.201	26.747	467.748	16514.53	688.04	12511.01	4.70
231	12	11	142.88	142.63	949.68	0.00	0.15	0.076	0.201	26.747	467.748	16514.54	688.04	12511.01	4.70
232	12	12	142.63	142.38	949.83	0.00	0.15	0.076	0.201	26.747	467.748	16514.54	688.04	12511.02	4.70
233	12	13	142.38	142.13	949.98	0.00	0.15	0.076	0.201	26.747	467.748	16514.55	688.04	12511.02	4.71
234	12	14	142.13	141.88	950.13	0.00	0.15	0.076	0.201	26.747	467.748	16514.55	688.04	12511.03	4.71
235	12	15	141.88	141.63	950.28	0.00	0.15	0.076	0.201	26.747	467.748	16514.56	688.04	12511.03	4.71
236	12	16	141.63	141.38	950.43	0.00	0.15	0.076	0.201	26.747	467.748	16514.57	688.04	12511.04	4.71
237	12	17	141.38	141.13	950.58	0.00	0.15	0.076	0.201	26.747	467.748	16514.57	688.04	12511.04	4.71
238	12	18	141.13	140.88	950.73	0.00	0.15	0.076	0.201	26.747	467.749	16514.58	688.04	12511.04	4.71
239	12	19	140.88	140.63	950.88	0.00	0.15	0.076	0.201	26.747	467.749	16514.59	688.04	12511.05	4.71
240	12	20	140.63	140.38	951.03	0.00	0.15	0.076	0.201	26.747	467.749	16514.59	688.04	12511.05	4.71
241	13	1	140.38	140.13	951.18	0.00	0.15	0.066	0.232	32.476	444.429	19052.12	672.38	14433.42	4.80
242	13	2	140.13	139.88	951.33	0.00	0.15	0.066	0.232	32.476	444.429	19052.13	672.38	14433.43	4.80
243	13	3	139.88	139.63	951.48	0.00	0.15	0.066	0.232	32.476	444.429	19052.13	672.38	14433.43	4.80
244	13	4	139.63	139.38	951.63	0.00	0.15	0.066	0.232	32.476	444.429	19052.13	672.38	14433.43	4.80
245	13	5	139.38	139.13	951.78	0.00	0.15	0.066	0.232	32.476	444.429	19052.14	672.38	14433.44	4.80
246	13	6	139.13	138.88	951.93	0.00	0.15	0.066	0.232	32.476	444.429	19052.14	672.38	14433.44	4.80
247	13	7	138.88	138.63	952.08	0.00	0.15	0.066	0.232	32.476	444.429	19052.15	672.38	14433.44	4.80
248	13	8	138.63	138.38	952.23	0.00	0.15	0.066	0.232	32.476	444.429	19052.15	672.38	14433.45	4.81
249	13	9	138.38	138.13	952.38	0.00	0.15	0.066	0.232	32.476	444.429	19052.15	672.38	14433.45	4.81
250	13	10	138.13	137.88	952.53	0.00	0.15	0.066	0.232	32.476	444.429	19052.16	672.38	14433.45	4.81
251	13	11	137.88	137.63	952.68	0.00	0.15	0.066	0.231	32.476	444.429	19052.16	672.38	14433.46	4.81
252	13	12	137.63	137.38	952.83	0.00	0.15	0.066	0.231	32.476	444.429	19052.17	672.38	14433.46	4.81

***** STEADY STATE SIMULATION *****

** HYDRAULICS SUMMARY **

ELE ORD	RCH NUM	ELE NUM	BEGIN LOC MILE	END LOC MILE	FLOW CFS	POINT SRCE CFS	INCR FLOW CFS	VEL FPS	TRVL TIME DAY	DEPTH FT	WIDTH FT	VOLUME K-FT-3	BOTTOM AREA K-FT-2	X-SECT AREA FT-2	DSPRSN COEF FT-2/S
253	13	13	137.38	137.13	952.98	0.00	0.15	0.066	0.231	32.476	444.429	19052.17	672.38	14433.46	4.81
254	13	14	137.13	136.88	953.13	0.00	0.15	0.066	0.231	32.476	444.429	19052.18	672.38	14433.47	4.81
255	13	15	136.88	136.63	953.28	0.00	0.15	0.066	0.231	32.476	444.429	19052.18	672.38	14433.47	4.81
256	13	16	136.63	136.38	953.43	0.00	0.15	0.066	0.231	32.476	444.429	19052.19	672.38	14433.47	4.81
257	13	17	136.38	136.13	953.58	0.00	0.15	0.066	0.231	32.476	444.430	19052.19	672.38	14433.48	4.81

258	13	18	136.13	135.88	953.73	0.00	0.15	0.066	0.231	32.476	444.430	19052.20	672.38	14433.48	4.81
259	13	19	135.88	135.63	953.88	0.00	0.15	0.066	0.231	32.476	444.430	19052.20	672.38	14433.48	4.81
260	13	20	135.63	135.38	954.03	0.00	0.15	0.066	0.231	32.476	444.430	19052.21	672.38	14433.49	4.81
261	14	1	135.38	135.13	954.18	0.00	0.15	0.064	0.238	29.906	496.922	19616.52	734.89	14861.00	4.37
262	14	2	135.13	134.88	954.33	0.00	0.15	0.064	0.238	29.906	496.922	19616.52	734.89	14861.00	4.37
263	14	3	134.88	134.63	954.48	0.00	0.15	0.064	0.238	29.906	496.922	19616.52	734.89	14861.00	4.37
264	14	4	134.63	134.38	954.63	0.00	0.15	0.064	0.238	29.906	496.922	19616.53	734.89	14861.00	4.37
265	14	5	134.38	134.13	954.78	0.00	0.15	0.064	0.238	29.906	496.922	19616.53	734.89	14861.01	4.37
266	14	6	134.13	133.88	954.93	0.00	0.15	0.064	0.238	29.906	496.922	19616.53	734.89	14861.01	4.37
267	14	7	133.88	133.63	955.08	0.00	0.15	0.064	0.238	29.906	496.922	19616.54	734.89	14861.01	4.37
268	14	8	133.63	133.38	955.23	0.00	0.15	0.064	0.238	29.906	496.922	19616.54	734.89	14861.01	4.37
269	14	9	133.38	133.13	955.38	0.00	0.15	0.064	0.238	29.906	496.922	19616.54	734.89	14861.02	4.37
270	14	10	133.13	132.88	955.53	0.00	0.15	0.064	0.238	29.906	496.922	19616.54	734.89	14861.02	4.37
271	14	11	132.88	132.63	955.68	0.00	0.15	0.064	0.238	29.906	496.922	19616.55	734.89	14861.02	4.37
272	14	12	132.63	132.38	955.83	0.00	0.15	0.064	0.238	29.906	496.922	19616.55	734.89	14861.02	4.37
273	14	13	132.38	132.13	955.98	0.00	0.15	0.064	0.237	29.906	496.923	19616.56	734.89	14861.03	4.37
274	14	14	132.13	131.88	956.13	0.00	0.15	0.064	0.237	29.906	496.923	19616.56	734.89	14861.03	4.38
275	14	15	131.88	131.63	956.28	0.00	0.15	0.064	0.237	29.906	496.923	19616.56	734.89	14861.03	4.38
276	14	16	131.63	131.38	956.43	0.00	0.15	0.064	0.237	29.906	496.923	19616.56	734.89	14861.03	4.38
277	14	17	131.38	131.13	956.58	0.00	0.15	0.064	0.237	29.906	496.923	19616.57	734.89	14861.04	4.38
278	14	18	131.13	130.88	956.73	0.00	0.15	0.064	0.237	29.906	496.923	19616.57	734.89	14861.04	4.38
279	14	19	130.88	130.63	956.88	0.00	0.15	0.064	0.237	29.906	496.923	19616.58	734.89	14861.04	4.38
280	14	20	130.63	130.38	957.03	0.00	0.15	0.064	0.237	29.906	496.923	19616.58	734.89	14861.04	4.38
281	15	1	130.38	130.13	957.18	0.00	0.15	0.064	0.239	27.329	548.397	19782.80	796.03	14986.97	4.03
282	15	2	130.13	129.88	957.33	0.00	0.15	0.064	0.239	27.329	548.397	19782.80	796.03	14986.97	4.03
283	15	3	129.88	129.63	957.48	0.00	0.15	0.064	0.239	27.329	548.397	19782.80	796.03	14986.97	4.03
284	15	4	129.63	129.38	957.63	0.00	0.15	0.064	0.239	27.329	548.397	19782.80	796.03	14986.97	4.03
285	15	5	129.38	129.13	957.78	0.00	0.15	0.064	0.239	27.329	548.397	19782.80	796.03	14986.97	4.03
286	15	6	129.13	128.88	957.93	0.00	0.15	0.064	0.239	27.329	548.397	19782.81	796.03	14986.97	4.03
287	15	7	128.88	128.63	958.08	0.00	0.15	0.064	0.239	27.329	548.397	19782.81	796.03	14986.97	4.03
288	15	8	128.63	128.38	958.23	0.00	0.15	0.064	0.239	27.329	548.397	19782.81	796.03	14986.98	4.03
289	15	9	128.38	128.13	958.38	0.00	0.15	0.064	0.239	27.329	548.397	19782.81	796.03	14986.98	4.03
290	15	10	128.13	127.88	958.53	0.00	0.15	0.064	0.239	27.329	548.397	19782.81	796.03	14986.98	4.04
291	15	11	127.88	127.63	958.68	0.00	0.15	0.064	0.239	27.329	548.397	19782.81	796.03	14986.98	4.04
292	15	12	127.63	127.38	958.83	0.00	0.15	0.064	0.239	27.329	548.397	19782.82	796.03	14986.98	4.04
293	15	13	127.38	127.13	958.98	0.00	0.15	0.064	0.239	27.329	548.397	19782.82	796.03	14986.98	4.04
294	15	14	127.13	126.88	959.13	0.00	0.15	0.064	0.239	27.329	548.397	19782.82	796.03	14986.99	4.04

***** STEADY STATE SIMULATION *****

** HYDRAULICS SUMMARY **

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295	15	15	126.88	126.63	959.28	0.00	0.15	0.064	0.239	27.329	548.397	19782.82	796.03	14986.99	4.04
296	15	16	126.63	126.38	959.43	0.00	0.15	0.064	0.239	27.329	548.397	19782.82	796.03	14986.99	4.04
297	15	17	126.38	126.13	959.58	0.00	0.15	0.064	0.239	27.329	548.398	19782.83	796.03	14986.99	4.04
298	15	18	126.13	125.88	959.73	0.00	0.15	0.064	0.239	27.329	548.398	19782.83	796.03	14986.99	4.04
299	15	19	125.88	125.63	959.88	0.00	0.15	0.064	0.239	27.329	548.398	19782.83	796.03	14986.99	4.04
300	15	20	125.63	125.38	960.03	0.00	0.15	0.064	0.239	27.329	548.398	19782.83	796.03	14986.99	4.04
301	16	1	125.38	125.13	960.18	0.00	0.15	0.065	0.237	24.736	600.978	19622.82	858.59	14865.77	3.75
302	16	2	125.13	124.88	960.33	0.00	0.15	0.065	0.236	24.736	600.978	19622.82	858.59	14865.77	3.75
303	16	3	124.88	124.63	960.48	0.00	0.15	0.065	0.236	24.736	600.978	19622.82	858.59	14865.77	3.75
304	16	4	124.63	124.38	960.63	0.00	0.15	0.065	0.236	24.736	600.978	19622.82	858.59	14865.78	3.75
305	16	5	124.38	124.13	960.78	0.00	0.15	0.065	0.236	24.736	600.978	19622.83	858.59	14865.78	3.75
306	16	6	124.13	123.88	960.93	0.00	0.15	0.065	0.236	24.736	600.978	19622.83	858.59	14865.78	3.75
307	16	7	123.88	123.63	961.08	0.00	0.15	0.065	0.236	24.736	600.978	19622.83	858.59	14865.78	3.75
308	16	8	123.63	123.38	961.23	0.00	0.15	0.065	0.236	24.736	600.978	19622.83	858.59	14865.78	3.75
309	16	9	123.38	123.13	961.38	0.00	0.15	0.065	0.236	24.736	600.978	19622.83	858.59	14865.78	3.75
310	16	10	123.13	122.88	961.53	0.00	0.15	0.065	0.236	24.736	600.978	19622.83	858.59	14865.78	3.76
311	16	11	122.88	122.63	961.68	0.00	0.15	0.065	0.236	24.736	600.978	19622.84	858.59	14865.79	3.76
312	16	12	122.63	122.38	961.83	0.00	0.15	0.065	0.236	24.736	600.978	19622.84	858.59	14865.79	3.76
313	16	13	122.38	122.13	961.98	0.00	0.15	0.065	0.236	24.736	600.978	19622.84	858.59	14865.79	3.76
314	16	14	122.13	121.88	962.13	0.00	0.15	0.065	0.236	24.736	600.978	19622.84	858.59	14865.79	3.76
315	16	15	121.88	121.63	962.28	0.00	0.15	0.065	0.236	24.736	600.978	19622.84	858.59	14865.79	3.76
316	16	16	121.63	121.38	962.43	0.00	0.15	0.065	0.236	24.736	600.978	19622.84	858.59	14865.79	3.76
317	16	17	121.38	121.13	962.58	0.00	0.15	0.065	0.236	24.736	600.978	19622.85	858.59	14865.79	3.76
318	16	18	121.13	120.88	962.73	0.00	0.15	0.065	0.236	24.736	600.978	19622.85	858.59	14865.79	3.76
319	16	19	120.88	120.63	962.88	0.00	0.15	0.065	0.236	24.736	600.978	19622.85	858.59	14865.79	3.76
320	16	20	120.63	120.38	963.03	0.00	0.15	0.065	0.236	24.736	600.978	19622.85	858.59	14865.79	3.76
321	17	1	120.38	120.13	963.28	0.00	0.25	0.066	0.231	22.509	647.135	19227.18	913.64	14566.05	3.55
322	17	2	120.13	119.88	963.53	0.00	0.25	0.066	0.231	22.509	647.135	19227.18	913.64	14566.05	3.55
323	17	3	119.88	119.63	963.78	0.00	0.25	0.066	0.231	22.509	647.135	19227.18	913.64	14566.05	3.55
324	17	4	119.63	119.38	964.03	0.00	0.25	0.066	0.231	22.509	647.135	19227.18	913.64	14566.05	3.55
325	17	5	119.38	119.13	964.28	0.00	0.25	0.066	0.231	22.509	647.135	19227.19	913.64	14566.05	3.55
326	17	6	119.13	118.88	964.53	0.00	0.25	0.066	0.231	22.509	647.135	19227.19	913.64	14566.05	3.55
327	17	7	118.88	118.63	964.78	0.00	0.25	0.066	0.231	22.509	647.135	19227.19	913.64	14566.05	3.56
328	17	8	118.63	118.38	965.03	0.00	0.25	0.066	0.231	22.509	647.135	19227.19	913.64	14566.05	3.56
329	17	9	118.38	118.13	965.28	0.00	0.25	0.066	0.231	22.509	647.135	19227.19	913.64	14566.05	3.56
330	17	10	118.13	117.88	965.53	0.00	0.25	0.066	0.230	22.509	647.135	19227.19	913.64	14566.05	3.56
331	17	11	117.88	117.63	965.78	0.00	0.25	0.066	0.230	22.509	647.135	19227.19	913.64	14566.05	3.56
332	17	12	117.63	117.38	966.03	0.00	0.25	0.066	0.230	22.509	647.135	19227.19	913.64	14566.05	3.56

***** STEADY STATE SIMULATION *****

** REACTION COEFFICIENT SUMMARY **

RCH NUM	ELE NUM	DO SAT MG/L	K2 OPT	OXYGN REAIR 1/DAY	BOD DECAY 1/DAY	BOD SETT 1/DAY	SOD RATE G/F2D	ORGN DECAY 1/DAY	ORGN SETT 1/DAY	NH3 DECAY 1/DAY	NH3 SRCE MG/F2D	NO2 DECAY 1/DAY	ORGP DECAY 1/DAY	ORGP SETT 1/DAY	DISP SRCE MG/F2D	COLI DECAY 1/DAY	ANC DECAY 1/DAY	ANC SETT 1/DAY	ANC SRCE MG/F2D
1	1	7.22	1	0.27	0.06	0.01	0.00	0.02	0.00	0.46	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	2	7.23	1	0.27	0.06	0.01	0.00	0.02	0.00	0.46	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	3	7.23	1	0.27	0.06	0.01	0.00	0.02	0.00	0.46	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	4	7.23	1	0.27	0.06	0.01	0.00	0.02	0.00	0.46	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	5	7.23	1	0.27	0.06	0.01	0.00	0.02	0.00	0.46	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	6	7.23	1	0.27	0.06	0.01	0.00	0.02	0.00	0.46	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	7	7.24	1	0.27	0.06	0.01	0.00	0.02	0.00	0.46	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	8	7.24	1	0.27	0.06	0.01	0.00	0.02	0.00	0.46	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	9	7.24	1	0.27	0.06	0.01	0.00	0.02	0.00	0.46	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	10	7.24	1	0.27	0.06	0.01	0.00	0.02	0.00	0.46	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	11	7.24	1	0.27	0.06	0.01	0.00	0.02	0.00	0.46	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	12	7.25	1	0.27	0.06	0.01	0.00	0.02	0.00	0.46	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	13	7.25	1	0.27	0.06	0.01	0.00	0.02	0.00	0.46	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	14	7.25	1	0.27	0.06	0.01	0.00	0.02	0.00	0.46	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	15	7.25	1	0.27	0.06	0.01	0.00	0.02	0.00	0.46	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	16	7.25	1	0.27	0.06	0.01	0.00	0.02	0.00	0.46	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	17	7.25	1	0.27	0.06	0.01	0.00	0.02	0.00	0.46	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	18	7.26	1	0.27	0.06	0.01	0.00	0.02	0.00	0.46	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	19	7.26	1	0.27	0.06	0.01	0.00	0.02	0.00	0.46	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1	20	7.26	1	0.27	0.06	0.01	0.00	0.02	0.00	0.46	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	1	7.26	1	0.28	0.06	0.01	0.00	0.02	0.00	0.46	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	2	7.26	1	0.29	0.06	0.01	0.00	0.02	0.00	0.45	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	3	7.26	1	0.29	0.06	0.01	0.00	0.02	0.00	0.45	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	4	7.26	1	0.29	0.06	0.01	0.00	0.02	0.00	0.45	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	5	7.27	1	0.29	0.06	0.01	0.00	0.02	0.00	0.45	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	6	7.27	1	0.29	0.06	0.01	0.00	0.02	0.00	0.45	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	7	7.27	1	0.29	0.06	0.01	0.00	0.02	0.00	0.45	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	8	7.30	1	0.28	0.06	0.01	0.00	0.02	0.00	0.45	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	9	7.30	1	0.28	0.06	0.01	0.00	0.02	0.00	0.45	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	10	7.30	1	0.28	0.06	0.01	0.00	0.02	0.00	0.45	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	11	7.29	1	0.29	0.06	0.01	0.00	0.02	0.00	0.45	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	12	6.80	1	0.32	0.07	0.01	0.00	0.03	0.00	0.59	0.00	0.52	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	13	6.81	1	0.31	0.07	0.01	0.00	0.03	0.00	0.59	0.00	0.52	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	14	6.82	1	0.31	0.07	0.01	0.00	0.03	0.00	0.59	0.00	0.51	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	15	6.83	1	0.31	0.07	0.01	0.00	0.03	0.00	0.58	0.00	0.51	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	16	6.84	1	0.31	0.07	0.01	0.00	0.03	0.00	0.58	0.00	0.51	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	17	6.85	1	0.31	0.07	0.01	0.00	0.03	0.00	0.58	0.00	0.51	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	18	6.86	1	0.31	0.07	0.01	0.00	0.03	0.00	0.57	0.00	0.51	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	19	6.87	1	0.31	0.07	0.01	0.00	0.03	0.00	0.57	0.00	0.50	0.02	0.00	0.00	0.00	0.00	0.00	0.00
2	20	6.88	1	0.31	0.07	0.01	0.00	0.03	0.00	0.57	0.00	0.50	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	1	6.88	1	0.32	0.07	0.01	0.00	0.03	0.00	0.56	0.00	0.50	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	2	6.89	1	0.33	0.07	0.01	0.00	0.03	0.00	0.56	0.00	0.50	0.02	0.00	0.00	0.00	0.00	0.00	0.00

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 10
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** REACTION COEFFICIENT SUMMARY **

RCH NUM	ELE NUM	DO SAT MG/L	K2 OPT	OXYGN REAIR 1/DAY	BOD DECAY 1/DAY	BOD SETT 1/DAY	SOD RATE G/F2D	ORGN DECAY 1/DAY	ORGN SETT 1/DAY	NH3 DECAY 1/DAY	NH3 SRCE MG/F2D	NO2 DECAY 1/DAY	ORGP DECAY 1/DAY	ORGP SETT 1/DAY	DISP SRCE MG/F2D	COLI DECAY 1/DAY	ANC DECAY 1/DAY	ANC SETT 1/DAY	ANC SRCE MG/F2D
3	3	6.90	1	0.33	0.07	0.01	0.00	0.03	0.00	0.56	0.00	0.50	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	4	6.91	1	0.33	0.07	0.01	0.00	0.03	0.00	0.56	0.00	0.50	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	5	6.91	1	0.33	0.07	0.01	0.00	0.03	0.00	0.55	0.00	0.49	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	6	6.92	1	0.33	0.07	0.01	0.00	0.03	0.00	0.55	0.00	0.49	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	7	6.93	1	0.33	0.06	0.01	0.00	0.03	0.00	0.55	0.00	0.49	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	8	6.93	1	0.33	0.06	0.01	0.00	0.03	0.00	0.55	0.00	0.49	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	9	6.94	1	0.33	0.06	0.01	0.00	0.03	0.00	0.54	0.00	0.49	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	10	6.95	1	0.33	0.06	0.01	0.00	0.03	0.00	0.54	0.00	0.49	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	11	6.96	1	0.33	0.06	0.01	0.00	0.03	0.00	0.54	0.00	0.48	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	12	6.96	1	0.33	0.06	0.01	0.00	0.03	0.00	0.54	0.00	0.48	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	13	6.97	1	0.33	0.06	0.01	0.00	0.03	0.00	0.54	0.00	0.48	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	14	6.97	1	0.33	0.06	0.01	0.00	0.03	0.00	0.53	0.00	0.48	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	15	6.98	1	0.33	0.06	0.01	0.00	0.03	0.00	0.53	0.00	0.48	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	16	6.99	1	0.33	0.06	0.01	0.00	0.03	0.00	0.53	0.00	0.48	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	17	6.99	1	0.33	0.06	0.01	0.00	0.03	0.00	0.53	0.00	0.48	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	18	7.00	1	0.33	0.06	0.01	0.00	0.03	0.00	0.53	0.00	0.48	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	19	7.00	1	0.33	0.06	0.01	0.00	0.03	0.00	0.52	0.00	0.48	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3	20	7.01	1	0.33	0.06	0.01	0.00	0.03	0.00	0.52	0.00	0.47	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	1	7.01	1	0.29	0.06	0.01	0.00	0.03	0.00	0.52	0.00	0.47	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	2	7.02	1	0.25	0.06	0.01	0.00	0.03	0.00	0.52	0.00	0.47	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	3	7.03	1	0.25	0.06	0.01	0.00	0.03	0.00	0.52	0.00	0.47	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	4	7.03	1	0.25	0.06	0.01	0.00	0.03	0.00	0.52	0.00	0.47	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	5	7.04	1	0.25	0.06	0.01	0.00	0.03	0.00	0.51	0.00	0.47	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	6	7.04	1	0.24	0.06	0.01	0.00	0.03	0.00	0.51	0.00	0.47	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	7	7.05	1	0.24	0.06	0.01	0.00	0.03	0.00	0.51	0.00	0.47	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	8	7.05	1	0.24	0.06	0.01	0.00	0.03	0.00	0.51	0.00	0.47	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	9	7.06	1	0.24	0.06	0.01	0.00	0.03	0.00	0.51	0.00	0.46	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	10	7.06	1	0.24	0.06	0.01	0.00	0.02	0.00	0.51	0.00	0.46	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	11	7.07	1	0.24	0.06	0.01	0.00	0.02	0.00	0.50	0.00	0.46	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	12	7.07	1	0.24	0.06	0.01	0.00	0.02	0.00	0.50	0.00	0.46	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	13	7.08	1	0.24	0.06	0.01	0.00	0.02	0.00	0.50	0.00	0.46	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	14	7.08	1	0.24	0.06	0.01	0.00	0.02	0.00	0.50	0.00	0.46	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	15	7.09	1	0.24	0.06	0.01	0.00	0.02	0.00	0.50	0.00	0.46	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	16	7.09	1	0.24	0.06	0.01	0.00	0.02	0.00	0.50	0.00	0.46	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	17	7.10	1	0.24	0.06	0.01	0.00	0.02	0.00	0.50	0.00	0.46	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	18	7.10	1	0.24	0.06	0.01	0.00	0.02	0.00	0.49	0.00	0.46	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	19	7.11	1	0.24	0.06	0.01	0.00	0.02	0.00	0.49	0.00	0.46	0.02	0.00	0.00	0.00	0.00	0.00	0.00
4	20	7.11	1	0.24	0.06	0.01	0.00	0.02	0.00	0.49	0.00	0.45	0.02	0.00	0.00	0.00	0.00	0.00	0.00

5	1	7.11	1	0.22	0.06	0.01	0.00	0.02	0.00	0.49	0.00	0.45	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	2	7.12	1	0.19	0.06	0.01	0.00	0.02	0.00	0.49	0.00	0.45	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	3	7.12	1	0.19	0.06	0.01	0.00	0.02	0.00	0.49	0.00	0.45	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	4	7.13	1	0.19	0.06	0.01	0.00	0.02	0.00	0.49	0.00	0.45	0.02	0.00	0.00	0.00	0.00	0.00	0.00

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 11
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** REACTION COEFFICIENT SUMMARY **

RCH NUM	ELE NUM	DO SAT MG/L	K2 OPT	OXYGN REAIR 1/DAY	BOD DECAY 1/DAY	BOD SETT 1/DAY	SOD RATE G/F2D	ORGN DECAY 1/DAY	ORGN SETT 1/DAY	NH3 DECAY 1/DAY	NH3 SRCE MG/F2D	NO2 DECAY 1/DAY	ORGP DECAY 1/DAY	ORGP SETT 1/DAY	DISP SRCE MG/F2D	COLI DECAY 1/DAY	ANC DECAY 1/DAY	ANC SETT 1/DAY	ANC SRCE MG/F2D
5	5	7.13	1	0.19	0.06	0.01	0.00	0.02	0.00	0.48	0.00	0.45	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	6	7.13	1	0.19	0.06	0.01	0.00	0.02	0.00	0.48	0.00	0.45	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	7	7.14	1	0.19	0.06	0.01	0.00	0.02	0.00	0.48	0.00	0.45	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	8	7.14	1	0.19	0.06	0.01	0.00	0.02	0.00	0.48	0.00	0.45	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	9	7.15	1	0.19	0.06	0.01	0.00	0.02	0.00	0.48	0.00	0.45	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	10	7.15	1	0.19	0.06	0.01	0.00	0.02	0.00	0.48	0.00	0.45	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	11	7.15	1	0.19	0.06	0.01	0.00	0.02	0.00	0.48	0.00	0.45	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	12	7.16	1	0.19	0.06	0.01	0.00	0.02	0.00	0.48	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	13	7.16	1	0.19	0.06	0.01	0.00	0.02	0.00	0.48	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	14	7.16	1	0.19	0.06	0.01	0.00	0.02	0.00	0.47	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	15	7.17	1	0.19	0.06	0.01	0.00	0.02	0.00	0.47	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	16	7.17	1	0.19	0.06	0.01	0.00	0.02	0.00	0.47	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	17	7.17	1	0.19	0.06	0.01	0.00	0.02	0.00	0.47	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	18	7.18	1	0.19	0.06	0.01	0.00	0.02	0.00	0.47	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	19	7.18	1	0.19	0.06	0.01	0.00	0.02	0.00	0.47	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
5	20	7.18	1	0.19	0.06	0.01	0.00	0.02	0.00	0.47	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	1	7.19	1	0.19	0.06	0.01	0.00	0.02	0.00	0.47	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	2	7.19	1	0.19	0.06	0.01	0.00	0.02	0.00	0.47	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	3	7.19	1	0.19	0.06	0.01	0.00	0.02	0.00	0.47	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	4	7.20	1	0.19	0.06	0.01	0.00	0.02	0.00	0.46	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	5	7.20	1	0.19	0.06	0.01	0.00	0.02	0.00	0.46	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	6	7.20	1	0.19	0.06	0.01	0.00	0.02	0.00	0.46	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	7	7.20	1	0.19	0.06	0.01	0.00	0.02	0.00	0.46	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	8	7.21	1	0.19	0.06	0.01	0.00	0.02	0.00	0.46	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	9	7.21	1	0.19	0.06	0.01	0.00	0.02	0.00	0.46	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	10	7.21	1	0.19	0.06	0.01	0.00	0.02	0.00	0.46	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	11	7.22	1	0.19	0.06	0.01	0.00	0.02	0.00	0.46	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	12	7.22	1	0.19	0.06	0.01	0.00	0.02	0.00	0.46	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	13	7.22	1	0.19	0.06	0.01	0.00	0.02	0.00	0.46	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	14	7.22	1	0.19	0.06	0.01	0.00	0.02	0.00	0.46	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	15	7.23	1	0.19	0.06	0.01	0.00	0.02	0.00	0.46	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	16	7.23	1	0.19	0.06	0.01	0.00	0.02	0.00	0.45	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00

6	17	7.23	1	0.19	0.06	0.01	0.00	0.02	0.00	0.45	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	18	7.23	1	0.19	0.06	0.01	0.00	0.02	0.00	0.45	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	19	7.24	1	0.19	0.06	0.01	0.00	0.02	0.00	0.45	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6	20	7.24	1	0.19	0.06	0.01	0.00	0.02	0.00	0.45	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	1	7.24	1	0.19	0.06	0.01	0.02	0.02	0.00	0.45	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	2	7.24	1	0.19	0.06	0.01	0.02	0.02	0.00	0.45	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	3	7.24	1	0.19	0.06	0.01	0.02	0.02	0.00	0.45	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	4	7.24	1	0.19	0.06	0.01	0.02	0.02	0.00	0.45	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	5	7.00	1	0.20	0.06	0.01	0.02	0.03	0.00	0.52	0.00	0.47	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	6	7.01	1	0.20	0.06	0.01	0.02	0.03	0.00	0.51	0.00	0.47	0.02	0.00	0.00	0.00	0.00	0.00	0.00

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 12
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** REACTION COEFFICIENT SUMMARY **

RCH NUM	ELE NUM	DO SAT MG/L	K2 OPT	OXYGN REAIR 1/DAY	BOD DECAY 1/DAY	BOD SETT 1/DAY	SOD RATE G/F2D	ORGN DECAY 1/DAY	ORGN SETT 1/DAY	NH3 DECAY 1/DAY	NH3 SRCE MG/F2D	NO2 DECAY 1/DAY	ORGP DECAY 1/DAY	ORGP SETT 1/DAY	DISP SRCE MG/F2D	COLI DECAY 1/DAY	ANC DECAY 1/DAY	ANC SETT 1/DAY	ANC SRCE MG/F2D
7	7	7.02	1	0.20	0.06	0.01	0.02	0.03	0.00	0.51	0.00	0.46	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	8	7.03	1	0.20	0.06	0.01	0.02	0.03	0.00	0.51	0.00	0.46	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	9	7.03	1	0.20	0.06	0.01	0.02	0.03	0.00	0.51	0.00	0.46	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	10	7.04	1	0.20	0.06	0.01	0.02	0.03	0.00	0.50	0.00	0.46	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	11	7.05	1	0.20	0.06	0.01	0.02	0.03	0.00	0.50	0.00	0.46	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	12	7.05	1	0.20	0.06	0.01	0.02	0.03	0.00	0.50	0.00	0.46	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	13	7.06	1	0.20	0.06	0.01	0.02	0.03	0.00	0.50	0.00	0.46	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	14	7.06	1	0.20	0.06	0.01	0.02	0.02	0.00	0.50	0.00	0.45	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	15	7.07	1	0.20	0.06	0.01	0.02	0.02	0.00	0.49	0.00	0.45	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	16	7.08	1	0.20	0.06	0.01	0.02	0.02	0.00	0.49	0.00	0.45	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	17	7.08	1	0.20	0.06	0.01	0.02	0.02	0.00	0.49	0.00	0.45	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	18	7.09	1	0.20	0.06	0.01	0.02	0.02	0.00	0.49	0.00	0.45	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	19	7.09	1	0.20	0.06	0.01	0.02	0.02	0.00	0.49	0.00	0.45	0.02	0.00	0.00	0.00	0.00	0.00	0.00
7	20	7.10	1	0.19	0.06	0.01	0.02	0.02	0.00	0.49	0.00	0.45	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	1	7.10	1	0.20	0.06	0.01	0.02	0.02	0.00	0.48	0.00	0.45	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	2	7.11	1	0.20	0.06	0.01	0.02	0.02	0.00	0.48	0.00	0.45	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	3	7.12	1	0.20	0.06	0.01	0.02	0.02	0.00	0.48	0.00	0.45	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	4	7.12	1	0.20	0.06	0.01	0.02	0.02	0.00	0.48	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	5	7.13	1	0.20	0.06	0.01	0.02	0.02	0.00	0.48	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	6	7.13	1	0.19	0.06	0.01	0.02	0.02	0.00	0.48	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	7	7.14	1	0.19	0.06	0.01	0.02	0.02	0.00	0.48	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	8	7.14	1	0.19	0.06	0.01	0.02	0.02	0.00	0.47	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	9	7.15	1	0.19	0.06	0.01	0.02	0.02	0.00	0.47	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	10	7.15	1	0.19	0.06	0.01	0.02	0.02	0.00	0.47	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	11	7.15	1	0.19	0.06	0.01	0.02	0.02	0.00	0.47	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	12	7.16	1	0.19	0.06	0.01	0.02	0.02	0.00	0.47	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00

8	13	7.16	1	0.19	0.06	0.01	0.02	0.02	0.00	0.47	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	14	7.17	1	0.19	0.06	0.01	0.02	0.02	0.00	0.47	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	15	7.17	1	0.19	0.06	0.01	0.02	0.02	0.00	0.47	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	16	7.18	1	0.19	0.06	0.01	0.02	0.02	0.00	0.47	0.00	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	17	7.18	1	0.19	0.06	0.01	0.02	0.02	0.00	0.46	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	18	7.20	1	0.19	0.06	0.01	0.02	0.02	0.00	0.46	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	19	7.20	1	0.19	0.06	0.01	0.02	0.02	0.00	0.46	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	20	7.20	1	0.19	0.06	0.01	0.02	0.02	0.00	0.46	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	1	7.21	1	0.19	0.06	0.01	0.02	0.02	0.00	0.45	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	2	7.21	1	0.19	0.06	0.01	0.02	0.02	0.00	0.45	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	3	7.21	1	0.19	0.06	0.01	0.02	0.02	0.00	0.45	0.00	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	4	7.22	1	0.19	0.06	0.01	0.02	0.02	0.00	0.45	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	5	7.23	1	0.19	0.06	0.01	0.02	0.02	0.00	0.45	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	6	7.23	1	0.19	0.06	0.01	0.02	0.02	0.00	0.45	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	7	7.23	1	0.19	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	8	7.23	1	0.19	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 13
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** REACTION COEFFICIENT SUMMARY **

RCH NUM	ELE NUM	DO SAT MG/L	K2 OPT	OXYGN REAIR 1/DAY	BOD DECAY 1/DAY	BOD SETT 1/DAY	SOD RATE G/F2D	ORGN DECAY 1/DAY	ORGN SETT 1/DAY	NH3 DECAY 1/DAY	NH3 SRCE MG/F2D	NO2 DECAY 1/DAY	ORGP DECAY 1/DAY	ORGP SETT 1/DAY	DISP SRCE MG/F2D	COLI DECAY 1/DAY	ANC DECAY 1/DAY	ANC SETT 1/DAY	ANC SRCE MG/F2D
9	9	7.24	1	0.19	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	10	7.24	1	0.19	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	11	7.24	1	0.19	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	12	7.24	1	0.19	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	13	7.24	1	0.19	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	14	7.25	1	0.19	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	15	7.25	1	0.19	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	16	7.25	1	0.19	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	17	7.25	1	0.19	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	18	7.25	1	0.19	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	19	7.26	1	0.19	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	20	7.26	1	0.19	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	1	7.26	1	0.19	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	2	7.26	1	0.20	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	3	7.26	1	0.20	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	4	7.26	1	0.20	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	5	7.27	1	0.20	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	6	7.27	1	0.20	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	7	7.27	1	0.20	0.06	0.01	0.02	0.02	0.00	0.44	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	8	7.27	1	0.20	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00

10	9	7.27	1	0.19	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	10	7.27	1	0.19	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	11	7.27	1	0.19	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	12	7.28	1	0.19	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	13	7.28	1	0.19	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	14	7.28	1	0.19	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	15	7.28	1	0.19	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	16	7.28	1	0.19	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	17	7.28	1	0.19	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	18	7.28	1	0.19	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	19	7.28	1	0.19	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	20	7.29	1	0.19	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	1	7.29	1	0.20	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	2	7.29	1	0.20	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	3	7.29	1	0.20	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	4	7.29	1	0.20	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	5	7.29	1	0.20	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	6	7.29	1	0.20	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	7	7.29	1	0.20	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	8	7.29	1	0.20	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	9	7.29	1	0.20	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	10	7.30	1	0.20	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 14
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** REACTION COEFFICIENT SUMMARY **

RCH NUM	ELE NUM	DO SAT MG/L	K2 OPT	OXYGN REAIR 1/DAY	BOD DECAY 1/DAY	BOD SETT 1/DAY	SOD RATE G/F2D	ORGN DECAY 1/DAY	ORGN SETT 1/DAY	NH3 DECAY 1/DAY	NH3 SRCE MG/F2D	NO2 DECAY 1/DAY	ORGP DECAY 1/DAY	ORGP SETT 1/DAY	DISP SRCE MG/F2D	COLI DECAY 1/DAY	ANC DECAY 1/DAY	ANC SETT 1/DAY	ANC SRCE MG/F2D
11	11	7.30	1	0.20	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	12	7.30	1	0.20	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	13	7.30	1	0.20	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	14	7.30	1	0.20	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	15	7.30	1	0.20	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	16	7.30	1	0.20	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	17	7.30	1	0.20	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	18	7.30	1	0.20	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	19	7.30	1	0.20	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	20	7.30	1	0.20	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	1	7.30	1	0.18	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	2	7.31	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	3	7.31	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	4	7.31	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00

12	5	7.31	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	6	7.31	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	7	7.31	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	8	7.31	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	9	7.31	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	10	7.31	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	11	7.31	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	12	7.31	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	13	7.31	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	14	7.31	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	15	7.31	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	16	7.31	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	17	7.31	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	18	7.31	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	19	7.31	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	20	7.32	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	1	7.32	1	0.14	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	2	7.32	1	0.13	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	3	7.32	1	0.13	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	4	7.32	1	0.13	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	5	7.32	1	0.13	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	6	7.32	1	0.13	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	7	7.32	1	0.13	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	8	7.32	1	0.13	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	9	7.32	1	0.13	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	10	7.32	1	0.13	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	11	7.32	1	0.13	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	12	7.32	1	0.13	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00

STREAM QUALITY SIMULATION — OUTPUT PAGE NUMBER 15
QUAL-2E STREAM QUALITY ROUTING MODEL — Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** REACTION COEFFICIENT SUMMARY **

RCH NUM	ELE NUM	DO SAT MG/L	K2 OPT	OXYGN REAIR 1/DAY	BOD DECAY 1/DAY	BOD SETT 1/DAY	SOD RATE G/F2D	ORGN DECAY 1/DAY	ORGN SETT 1/DAY	NH3 DECAY 1/DAY	NH3 SRCE MG/F2D	NO2 DECAY 1/DAY	ORGP DECAY 1/DAY	ORGP SETT 1/DAY	DISP SRCE MG/F2D	COLI DECAY 1/DAY	ANC DECAY 1/DAY	ANC SETT 1/DAY	ANC SRCE MG/F2D
13	13	7.32	1	0.13	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	14	7.32	1	0.13	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	15	7.32	1	0.13	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	16	7.32	1	0.13	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	17	7.32	1	0.13	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	18	7.32	1	0.13	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	19	7.32	1	0.13	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
13	20	7.32	1	0.13	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00

14	1	7.32	1	0.13	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	2	7.32	1	0.14	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	3	7.32	1	0.14	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	4	7.33	1	0.14	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	5	7.33	1	0.14	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	6	7.33	1	0.14	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	7	7.33	1	0.14	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	8	7.33	1	0.14	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	9	7.33	1	0.14	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	10	7.33	1	0.14	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	11	7.33	1	0.14	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	12	7.33	1	0.14	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	13	7.33	1	0.14	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	14	7.33	1	0.14	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	15	7.33	1	0.14	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	16	7.33	1	0.14	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	17	7.33	1	0.14	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	18	7.33	1	0.14	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	19	7.33	1	0.14	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
14	20	7.33	1	0.14	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	1	7.33	1	0.14	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	2	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	3	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	4	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	5	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	6	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	7	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	8	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.42	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	9	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	10	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	11	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	12	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	13	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	14	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 16
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** REACTION COEFFICIENT SUMMARY **

RCH NUM	ELE NUM	DO SAT MG/L	K2 OPT	OXYGN REAIR 1/DAY	BOD DECAY 1/DAY	BOD SETT 1/DAY	SOD RATE G/F2D	ORGN DECAY 1/DAY	ORGN SETT 1/DAY	NH3 DECAY 1/DAY	NH3 SRCE MG/F2D	NO2 DECAY 1/DAY	ORGP DECAY 1/DAY	ORGP SETT 1/DAY	DISP SRCE MG/F2D	COLI DECAY 1/DAY	ANC DECAY 1/DAY	ANC SETT 1/DAY	ANC SRCE MG/F2D
15	15	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	16	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	17	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	18	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00

15	19	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	20	7.33	1	0.15	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	1	7.33	1	0.16	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	2	7.34	1	0.17	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	3	7.34	1	0.17	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	4	7.34	1	0.17	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	5	7.34	1	0.17	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	6	7.34	1	0.17	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	7	7.34	1	0.17	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	8	7.34	1	0.17	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	9	7.34	1	0.17	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	10	7.34	1	0.17	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	11	7.34	1	0.17	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	12	7.34	1	0.17	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	13	7.34	1	0.17	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	14	7.34	1	0.17	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	15	7.34	1	0.17	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	16	7.34	1	0.17	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	17	7.34	1	0.17	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	18	7.34	1	0.17	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	19	7.34	1	0.17	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	20	7.34	1	0.17	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
17	1	7.34	1	0.17	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
17	2	7.34	1	0.18	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
17	3	7.34	1	0.18	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
17	4	7.34	1	0.18	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
17	5	7.34	1	0.18	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
17	6	7.34	1	0.18	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
17	7	7.34	1	0.18	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
17	8	7.34	1	0.18	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
17	9	7.34	1	0.18	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
17	10	7.34	1	0.18	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
17	11	7.34	1	0.18	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
17	12	7.34	1	0.18	0.06	0.01	0.02	0.02	0.00	0.43	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 17
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** WATER QUALITY VARIABLES **

RCH NUM	ELE NUM	TEMP DEG-F	CM-1	CM-2	CM-3	DO MG/L	BOD MG/L	ORGN MG/L	NH3N MG/L	NO2N MG/L	NO3N MG/L	SUM-N MG/L	ORGP MG/L	DIS-P MG/L	SUM-P MG/L	COLI #/100ML	ANC	CHLA UG/L

1	1	91.17	0.00	0.00	0.00	5.80	4.66	0.61	0.03	0.02	0.14	0.80	0.04	0.02	0.06	0.00	0.00	11.66
1	2	91.14	0.00	0.00	0.00	5.81	4.63	0.61	0.03	0.02	0.14	0.80	0.04	0.02	0.06	0.00	0.00	11.63
1	3	91.10	0.00	0.00	0.00	5.81	4.59	0.60	0.03	0.02	0.14	0.80	0.04	0.02	0.06	0.00	0.00	11.59
1	4	91.07	0.00	0.00	0.00	5.82	4.55	0.60	0.03	0.02	0.14	0.80	0.04	0.02	0.06	0.00	0.00	11.55
1	5	91.04	0.00	0.00	0.00	5.82	4.52	0.60	0.03	0.02	0.14	0.80	0.04	0.02	0.06	0.00	0.00	11.52
1	6	91.01	0.00	0.00	0.00	5.83	4.48	0.60	0.03	0.02	0.15	0.80	0.04	0.02	0.06	0.00	0.00	11.48
1	7	90.99	0.00	0.00	0.00	5.83	4.45	0.60	0.03	0.02	0.15	0.80	0.04	0.02	0.06	0.00	0.00	11.45
1	8	90.96	0.00	0.00	0.00	5.84	4.41	0.60	0.03	0.02	0.15	0.80	0.04	0.02	0.06	0.00	0.00	11.42
1	9	90.93	0.00	0.00	0.00	5.84	4.38	0.59	0.03	0.02	0.15	0.80	0.04	0.02	0.06	0.00	0.00	11.38
1	10	90.90	0.00	0.00	0.00	5.85	4.34	0.59	0.03	0.02	0.15	0.80	0.04	0.02	0.06	0.00	0.00	11.35
1	11	90.88	0.00	0.00	0.00	5.85	4.31	0.59	0.03	0.02	0.15	0.80	0.04	0.02	0.06	0.00	0.00	11.32
1	12	90.85	0.00	0.00	0.00	5.86	4.28	0.59	0.03	0.03	0.15	0.80	0.04	0.02	0.06	0.00	0.00	11.29
1	13	90.82	0.00	0.00	0.00	5.86	4.24	0.59	0.03	0.03	0.15	0.80	0.04	0.02	0.06	0.00	0.00	11.26
1	14	90.80	0.00	0.00	0.00	5.87	4.21	0.59	0.03	0.03	0.15	0.80	0.04	0.02	0.06	0.00	0.00	11.23
1	15	90.77	0.00	0.00	0.00	5.88	4.18	0.58	0.03	0.03	0.16	0.80	0.04	0.02	0.06	0.00	0.00	11.20
1	16	90.75	0.00	0.00	0.00	5.88	4.14	0.58	0.03	0.03	0.16	0.80	0.04	0.02	0.06	0.00	0.00	11.17
1	17	90.72	0.00	0.00	0.00	5.89	4.11	0.58	0.03	0.03	0.16	0.79	0.04	0.02	0.06	0.00	0.00	11.15
1	18	90.70	0.00	0.00	0.00	5.89	4.08	0.58	0.03	0.03	0.16	0.79	0.04	0.02	0.06	0.00	0.00	11.12
1	19	90.68	0.00	0.00	0.00	5.90	4.05	0.58	0.03	0.03	0.16	0.79	0.04	0.02	0.06	0.00	0.00	11.09
1	20	90.65	0.00	0.00	0.00	5.91	4.02	0.58	0.03	0.03	0.16	0.79	0.04	0.02	0.06	0.00	0.00	11.07
2	1	90.63	0.00	0.00	0.00	5.92	3.99	0.57	0.03	0.03	0.16	0.79	0.04	0.02	0.06	0.00	0.00	11.05
2	2	90.61	0.00	0.00	0.00	5.93	3.96	0.57	0.03	0.03	0.16	0.79	0.04	0.02	0.06	0.00	0.00	11.03
2	3	90.59	0.00	0.00	0.00	5.93	3.93	0.57	0.03	0.03	0.17	0.79	0.05	0.02	0.07	0.00	0.00	11.01
2	4	90.57	0.00	0.00	0.00	5.94	3.90	0.57	0.03	0.03	0.17	0.79	0.05	0.02	0.07	0.00	0.00	11.00
2	5	90.55	0.00	0.00	0.00	5.95	3.87	0.57	0.03	0.03	0.17	0.79	0.05	0.02	0.07	0.00	0.00	10.98
2	6	90.53	0.00	0.00	0.00	5.96	3.85	0.57	0.03	0.03	0.17	0.79	0.05	0.02	0.07	0.00	0.00	10.97
2	7	90.50	0.00	0.00	0.00	5.97	3.83	0.56	0.03	0.03	0.17	0.79	0.05	0.02	0.07	0.00	0.00	10.97
2	8	90.07	0.00	0.00	0.00	5.99	4.09	0.57	0.03	0.03	0.17	0.80	0.06	0.02	0.09	0.00	0.00	11.39
2	9	90.06	0.00	0.00	0.00	5.99	4.06	0.57	0.03	0.03	0.18	0.80	0.07	0.02	0.09	0.00	0.00	11.38
2	10	90.08	0.00	0.00	0.00	6.00	4.04	0.57	0.03	0.03	0.18	0.80	0.07	0.02	0.09	0.00	0.00	11.33
2	11	90.20	0.00	0.00	0.00	6.01	4.01	0.57	0.03	0.03	0.18	0.80	0.07	0.02	0.09	0.00	0.00	11.26
2	12	97.72	0.00	0.00	0.00	5.86	4.33	0.61	0.03	0.03	0.19	0.85	0.08	0.02	0.10	0.00	0.00	7.29
2	13	97.57	0.00	0.00	0.00	5.85	4.29	0.61	0.03	0.03	0.19	0.85	0.08	0.02	0.10	0.00	0.00	7.29
2	14	97.43	0.00	0.00	0.00	5.84	4.26	0.61	0.03	0.03	0.19	0.85	0.08	0.02	0.11	0.00	0.00	7.29
2	15	97.28	0.00	0.00	0.00	5.83	4.24	0.61	0.03	0.03	0.19	0.86	0.09	0.02	0.11	0.00	0.00	7.32
2	16	97.15	0.00	0.00	0.00	5.83	4.21	0.61	0.03	0.03	0.19	0.86	0.09	0.02	0.11	0.00	0.00	7.32
2	17	96.95	0.00	0.00	0.00	5.78	4.21	0.61	0.12	0.03	0.20	0.95	0.09	0.02	0.11	0.00	0.00	7.29
2	18	96.82	0.00	0.00	0.00	5.77	4.18	0.61	0.11	0.04	0.20	0.95	0.09	0.02	0.11	0.00	0.00	7.31
2	19	96.69	0.00	0.00	0.00	5.75	4.15	0.60	0.11	0.04	0.20	0.95	0.09	0.02	0.12	0.00	0.00	7.32
2	20	96.56	0.00	0.00	0.00	5.73	4.12	0.60	0.10	0.04	0.20	0.95	0.09	0.02	0.12	0.00	0.00	7.34
3	1	96.44	0.00	0.00	0.00	5.72	4.13	0.60	0.10	0.05	0.20	0.95	0.10	0.02	0.12	0.00	0.00	7.34
3	2	96.32	0.00	0.00	0.00	5.71	4.15	0.60	0.09	0.05	0.21	0.95	0.10	0.02	0.12	0.00	0.00	7.35

** WATER QUALITY VARIABLES **

RCH NUM	ELE NUM	TEMP DEG-F	CM-1	CM-2	CM-3	DO MG/L	BOD MG/L	ORGN MG/L	NH3N MG/L	NO2N MG/L	NO3N MG/L	SUM-N MG/L	ORGP MG/L	DIS-P MG/L	SUM-P MG/L	COLI #/100ML	ANC	CHLA UG/L
3	3	96.20	0.00	0.00	0.00	5.70	4.16	0.60	0.09	0.05	0.21	0.95	0.10	0.02	0.13	0.00	0.00	7.35
3	4	96.09	0.00	0.00	0.00	5.70	4.18	0.60	0.09	0.06	0.21	0.95	0.11	0.02	0.13	0.00	0.00	7.35
3	5	95.96	0.00	0.00	0.00	5.68	4.36	0.61	0.09	0.06	0.27	1.02	0.11	0.02	0.13	0.00	0.00	7.35
3	6	95.85	0.00	0.00	0.00	5.68	4.38	0.61	0.08	0.06	0.27	1.02	0.11	0.03	0.14	0.00	0.00	7.36
3	7	95.74	0.00	0.00	0.00	5.67	4.39	0.60	0.08	0.06	0.28	1.02	0.11	0.03	0.14	0.00	0.00	7.37
3	8	95.63	0.00	0.00	0.00	5.67	4.40	0.60	0.08	0.06	0.28	1.02	0.12	0.03	0.14	0.00	0.00	7.38
3	9	95.53	0.00	0.00	0.00	5.66	4.42	0.60	0.08	0.06	0.28	1.02	0.12	0.03	0.15	0.00	0.00	7.39
3	10	95.38	0.00	0.00	0.00	5.66	4.44	0.60	0.07	0.06	0.28	1.02	0.12	0.03	0.15	0.00	0.00	7.44
3	11	95.28	0.00	0.00	0.00	5.66	4.45	0.60	0.07	0.06	0.29	1.02	0.13	0.03	0.15	0.00	0.00	7.45
3	12	95.18	0.00	0.00	0.00	5.66	4.47	0.60	0.07	0.06	0.29	1.02	0.13	0.03	0.15	0.00	0.00	7.46
3	13	95.08	0.00	0.00	0.00	5.66	4.48	0.60	0.07	0.06	0.29	1.02	0.13	0.03	0.16	0.00	0.00	7.47
3	14	94.99	0.00	0.00	0.00	5.66	4.49	0.59	0.06	0.06	0.29	1.02	0.13	0.03	0.16	0.00	0.00	7.49
3	15	94.90	0.00	0.00	0.00	5.66	4.51	0.59	0.06	0.06	0.30	1.02	0.14	0.03	0.16	0.00	0.00	7.50
3	16	94.81	0.00	0.00	0.00	5.66	4.52	0.59	0.06	0.06	0.30	1.02	0.14	0.03	0.17	0.00	0.00	7.52
3	17	94.72	0.00	0.00	0.00	5.66	4.54	0.59	0.06	0.06	0.30	1.02	0.14	0.03	0.17	0.00	0.00	7.53
3	18	94.63	0.00	0.00	0.00	5.66	4.55	0.59	0.06	0.06	0.30	1.01	0.15	0.03	0.17	0.00	0.00	7.55
3	19	94.54	0.00	0.00	0.00	5.66	4.56	0.59	0.06	0.06	0.31	1.01	0.15	0.03	0.18	0.00	0.00	7.56
3	20	94.46	0.00	0.00	0.00	5.66	4.58	0.58	0.06	0.06	0.31	1.01	0.15	0.03	0.18	0.00	0.00	7.58
4	1	94.37	0.00	0.00	0.00	5.65	4.63	0.58	0.05	0.06	0.31	1.01	0.15	0.03	0.18	0.00	0.00	7.57
4	2	94.28	0.00	0.00	0.00	5.64	4.67	0.58	0.05	0.06	0.32	1.01	0.15	0.03	0.18	0.00	0.00	7.57
4	3	94.19	0.00	0.00	0.00	5.63	4.71	0.58	0.05	0.06	0.32	1.01	0.15	0.03	0.18	0.00	0.00	7.56
4	4	94.10	0.00	0.00	0.00	5.62	4.76	0.58	0.05	0.06	0.33	1.01	0.15	0.03	0.18	0.00	0.00	7.56
4	5	94.01	0.00	0.00	0.00	5.61	4.80	0.57	0.05	0.06	0.33	1.01	0.15	0.03	0.18	0.00	0.00	7.56
4	6	93.93	0.00	0.00	0.00	5.60	4.84	0.57	0.05	0.06	0.33	1.01	0.15	0.03	0.18	0.00	0.00	7.56
4	7	93.85	0.00	0.00	0.00	5.59	4.88	0.57	0.05	0.06	0.34	1.01	0.15	0.03	0.18	0.00	0.00	7.56
4	8	93.77	0.00	0.00	0.00	5.58	4.92	0.57	0.04	0.06	0.34	1.01	0.15	0.03	0.18	0.00	0.00	7.56
4	9	93.69	0.00	0.00	0.00	5.58	4.96	0.57	0.04	0.06	0.34	1.01	0.15	0.03	0.18	0.00	0.00	7.56
4	10	93.61	0.00	0.00	0.00	5.57	5.00	0.56	0.04	0.06	0.35	1.01	0.15	0.03	0.18	0.00	0.00	7.57
4	11	93.53	0.00	0.00	0.00	5.56	5.04	0.56	0.04	0.06	0.35	1.01	0.15	0.03	0.18	0.00	0.00	7.57
4	12	93.45	0.00	0.00	0.00	5.55	5.08	0.56	0.04	0.06	0.35	1.01	0.15	0.03	0.18	0.00	0.00	7.58
4	13	93.38	0.00	0.00	0.00	5.55	5.12	0.56	0.04	0.06	0.36	1.01	0.15	0.03	0.18	0.00	0.00	7.58
4	14	93.31	0.00	0.00	0.00	5.54	5.16	0.55	0.04	0.05	0.36	1.01	0.14	0.03	0.18	0.00	0.00	7.59
4	15	93.24	0.00	0.00	0.00	5.54	5.20	0.55	0.04	0.05	0.36	1.01	0.14	0.03	0.18	0.00	0.00	7.60
4	16	93.17	0.00	0.00	0.00	5.53	5.24	0.55	0.04	0.05	0.37	1.01	0.14	0.03	0.18	0.00	0.00	7.60
4	17	93.10	0.00	0.00	0.00	5.53	5.28	0.55	0.04	0.05	0.37	1.01	0.14	0.03	0.18	0.00	0.00	7.61
4	18	93.03	0.00	0.00	0.00	5.52	5.32	0.55	0.04	0.05	0.37	1.01	0.14	0.03	0.18	0.00	0.00	7.62
4	19	92.96	0.00	0.00	0.00	5.52	5.36	0.54	0.04	0.05	0.38	1.01	0.14	0.03	0.18	0.00	0.00	7.63
4	20	92.90	0.00	0.00	0.00	5.51	5.39	0.54	0.03	0.05	0.38	1.01	0.14	0.03	0.18	0.00	0.00	7.64
5	1	92.83	0.00	0.00	0.00	5.50	5.43	0.54	0.03	0.05	0.38	1.01	0.14	0.04	0.18	0.00	0.00	7.63
5	2	92.77	0.00	0.00	0.00	5.48	5.47	0.54	0.03	0.05	0.39	1.01	0.14	0.04	0.18	0.00	0.00	7.62
5	3	92.70	0.00	0.00	0.00	5.47	5.50	0.54	0.03	0.05	0.39	1.00	0.14	0.04	0.18	0.00	0.00	7.61

5	4	92.64	0.00	0.00	0.00	5.45	5.53	0.53	0.03	0.05	0.39	1.00	0.14	0.04	0.18	0.00	0.00	7.59

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 19
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** WATER QUALITY VARIABLES **

RCH NUM	ELE NUM	TEMP DEG-F	CM-1	CM-2	CM-3	DO MG/L	BOD MG/L	ORGN MG/L	NH3N MG/L	NO2N MG/L	NO3N MG/L	SUM-N MG/L	ORGP MG/L	DIS-P MG/L	SUM-P MG/L	COLI #/100ML	ANC	CHLA UG/L
5	5	92.58	0.00	0.00	0.00	5.43	5.56	0.53	0.03	0.05	0.40	1.00	0.14	0.04	0.18	0.00	0.00	7.58
5	6	92.52	0.00	0.00	0.00	5.41	5.59	0.53	0.03	0.04	0.40	1.00	0.14	0.04	0.18	0.00	0.00	7.58
5	7	92.46	0.00	0.00	0.00	5.40	5.62	0.53	0.03	0.04	0.40	1.00	0.14	0.04	0.18	0.00	0.00	7.57
5	8	92.40	0.00	0.00	0.00	5.38	5.65	0.52	0.03	0.04	0.41	1.00	0.14	0.04	0.18	0.00	0.00	7.56
5	9	92.34	0.00	0.00	0.00	5.37	5.68	0.52	0.03	0.04	0.41	1.00	0.14	0.04	0.18	0.00	0.00	7.56
5	10	92.29	0.00	0.00	0.00	5.35	5.71	0.52	0.03	0.04	0.41	1.00	0.14	0.04	0.18	0.00	0.00	7.55
5	11	92.23	0.00	0.00	0.00	5.34	5.74	0.52	0.03	0.04	0.41	1.00	0.14	0.04	0.18	0.00	0.00	7.55
5	12	92.18	0.00	0.00	0.00	5.33	5.77	0.51	0.03	0.04	0.42	1.00	0.14	0.04	0.18	0.00	0.00	7.54
5	13	92.13	0.00	0.00	0.00	5.32	5.80	0.51	0.03	0.04	0.42	1.00	0.14	0.04	0.18	0.00	0.00	7.54
5	14	92.08	0.00	0.00	0.00	5.30	5.83	0.51	0.03	0.04	0.42	1.00	0.14	0.04	0.18	0.00	0.00	7.54
5	15	92.03	0.00	0.00	0.00	5.29	5.86	0.51	0.03	0.04	0.43	1.00	0.13	0.04	0.18	0.00	0.00	7.54
5	16	91.98	0.00	0.00	0.00	5.28	5.89	0.50	0.03	0.04	0.43	1.00	0.13	0.04	0.18	0.00	0.00	7.54
5	17	91.93	0.00	0.00	0.00	5.27	5.92	0.50	0.03	0.04	0.43	1.00	0.13	0.04	0.18	0.00	0.00	7.54
5	18	91.88	0.00	0.00	0.00	5.26	5.94	0.50	0.03	0.04	0.43	1.00	0.13	0.04	0.18	0.00	0.00	7.54
5	19	91.83	0.00	0.00	0.00	5.25	5.97	0.50	0.03	0.04	0.44	1.00	0.13	0.04	0.18	0.00	0.00	7.54
5	20	91.79	0.00	0.00	0.00	5.24	6.00	0.50	0.03	0.04	0.44	1.00	0.13	0.04	0.18	0.00	0.00	7.55
6	1	91.74	0.00	0.00	0.00	5.23	6.01	0.50	0.03	0.03	0.44	1.00	0.13	0.04	0.18	0.00	0.00	7.55
6	2	91.69	0.00	0.00	0.00	5.22	6.02	0.50	0.03	0.03	0.44	1.00	0.13	0.04	0.18	0.00	0.00	7.56
6	3	91.65	0.00	0.00	0.00	5.21	6.03	0.50	0.03	0.03	0.45	1.00	0.13	0.04	0.18	0.00	0.00	7.57
6	4	91.60	0.00	0.00	0.00	5.21	6.04	0.50	0.03	0.03	0.45	1.01	0.13	0.04	0.17	0.00	0.00	7.57
6	5	91.55	0.00	0.00	0.00	5.20	6.05	0.50	0.03	0.03	0.45	1.01	0.13	0.05	0.17	0.00	0.00	7.58
6	6	91.51	0.00	0.00	0.00	5.19	6.06	0.50	0.03	0.03	0.45	1.01	0.13	0.05	0.17	0.00	0.00	7.59
6	7	91.47	0.00	0.00	0.00	5.18	6.07	0.50	0.03	0.03	0.46	1.01	0.13	0.05	0.17	0.00	0.00	7.60
6	8	91.42	0.00	0.00	0.00	5.18	6.08	0.50	0.03	0.03	0.46	1.02	0.13	0.05	0.17	0.00	0.00	7.61
6	9	91.38	0.00	0.00	0.00	5.17	6.09	0.50	0.03	0.03	0.46	1.02	0.13	0.05	0.17	0.00	0.00	7.63
6	10	91.34	0.00	0.00	0.00	5.16	6.10	0.50	0.03	0.03	0.46	1.02	0.13	0.05	0.17	0.00	0.00	7.64
6	11	91.30	0.00	0.00	0.00	5.16	6.11	0.50	0.03	0.03	0.47	1.02	0.13	0.05	0.17	0.00	0.00	7.65
6	12	91.26	0.00	0.00	0.00	5.15	6.11	0.50	0.03	0.03	0.47	1.02	0.13	0.05	0.17	0.00	0.00	7.67
6	13	91.23	0.00	0.00	0.00	5.15	6.12	0.50	0.03	0.03	0.47	1.03	0.13	0.05	0.17	0.00	0.00	7.68
6	14	91.19	0.00	0.00	0.00	5.14	6.13	0.50	0.03	0.03	0.47	1.03	0.13	0.05	0.17	0.00	0.00	7.70
6	15	91.15	0.00	0.00	0.00	5.14	6.14	0.50	0.03	0.03	0.48	1.03	0.12	0.05	0.17	0.00	0.00	7.72
6	16	91.10	0.00	0.00	0.00	5.14	6.20	0.50	0.03	0.03	0.48	1.04	0.12	0.05	0.18	0.00	0.00	7.79
6	17	91.06	0.00	0.00	0.00	5.13	6.20	0.50	0.03	0.03	0.48	1.04	0.12	0.05	0.18	0.00	0.00	7.81
6	18	91.03	0.00	0.00	0.00	5.13	6.21	0.50	0.03	0.03	0.48	1.04	0.12	0.05	0.18	0.00	0.00	7.83
6	19	91.00	0.00	0.00	0.00	5.12	6.22	0.50	0.03	0.03	0.48	1.05	0.12	0.05	0.18	0.00	0.00	7.85
6	20	90.96	0.00	0.00	0.00	5.12	6.23	0.50	0.03	0.03	0.49	1.05	0.12	0.05	0.18	0.00	0.00	7.88

7	1	90.93	0.00	0.00	0.00	5.11	6.21	0.50	0.03	0.03	0.49	1.05	0.12	0.05	0.18	0.00	0.00	7.90
7	2	90.90	0.00	0.00	0.00	5.10	6.19	0.50	0.03	0.03	0.49	1.05	0.12	0.05	0.18	0.00	0.00	7.93
7	3	90.87	0.00	0.00	0.00	5.09	6.18	0.50	0.03	0.03	0.49	1.05	0.12	0.05	0.18	0.00	0.00	7.96
7	4	90.94	0.00	0.00	0.00	5.08	6.16	0.51	0.03	0.03	0.49	1.06	0.12	0.05	0.18	0.00	0.00	7.93
7	5	94.52	0.00	0.00	0.00	5.02	6.34	0.55	0.03	0.03	0.45	1.06	0.13	0.05	0.18	0.00	0.00	6.00
7	6	94.41	0.00	0.00	0.00	4.99	6.31	0.55	0.03	0.03	0.45	1.06	0.13	0.05	0.18	0.00	0.00	6.01

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 20
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** WATER QUALITY VARIABLES **

RCH NUM	ELE NUM	TEMP DEG-F	CM-1	CM-2	CM-3	DO MG/L	BOD MG/L	ORGN MG/L	NH3N MG/L	NO2N MG/L	NO3N MG/L	SUM-N MG/L	ORGP MG/L	DIS-P MG/L	SUM-P MG/L	COLI #/100ML	ANC	CHLA UG/L
7	7	94.30	0.00	0.00	0.00	4.98	6.29	0.54	0.03	0.03	0.45	1.06	0.13	0.05	0.18	0.00	0.00	6.03
7	8	94.19	0.00	0.00	0.00	4.96	6.26	0.54	0.03	0.03	0.46	1.06	0.13	0.05	0.18	0.00	0.00	6.05
7	9	94.08	0.00	0.00	0.00	4.94	6.23	0.54	0.03	0.03	0.46	1.06	0.13	0.05	0.18	0.00	0.00	6.07
7	10	93.98	0.00	0.00	0.00	4.93	6.21	0.54	0.03	0.03	0.46	1.07	0.12	0.05	0.18	0.00	0.00	6.09
7	11	93.88	0.00	0.00	0.00	4.91	6.18	0.54	0.03	0.03	0.47	1.07	0.12	0.05	0.18	0.00	0.00	6.11
7	12	93.78	0.00	0.00	0.00	4.90	6.16	0.54	0.03	0.03	0.47	1.07	0.12	0.05	0.18	0.00	0.00	6.13
7	13	93.68	0.00	0.00	0.00	4.89	6.14	0.54	0.03	0.03	0.47	1.07	0.12	0.05	0.18	0.00	0.00	6.15
7	14	93.59	0.00	0.00	0.00	4.88	6.11	0.54	0.03	0.03	0.47	1.08	0.12	0.05	0.18	0.00	0.00	6.18
7	15	93.49	0.00	0.00	0.00	4.87	6.09	0.54	0.03	0.03	0.48	1.08	0.12	0.05	0.18	0.00	0.00	6.20
7	16	93.40	0.00	0.00	0.00	4.86	6.07	0.54	0.03	0.03	0.48	1.08	0.12	0.05	0.18	0.00	0.00	6.23
7	17	93.31	0.00	0.00	0.00	4.86	6.05	0.54	0.03	0.03	0.48	1.08	0.12	0.05	0.17	0.00	0.00	6.25
7	18	93.23	0.00	0.00	0.00	4.85	6.03	0.54	0.03	0.03	0.48	1.08	0.12	0.05	0.17	0.00	0.00	6.28
7	19	93.14	0.00	0.00	0.00	4.85	6.01	0.54	0.03	0.03	0.49	1.09	0.12	0.05	0.17	0.00	0.00	6.31
7	20	93.06	0.00	0.00	0.00	4.84	5.99	0.54	0.03	0.03	0.49	1.09	0.12	0.06	0.17	0.00	0.00	6.33
8	1	92.98	0.00	0.00	0.00	4.84	5.96	0.54	0.03	0.03	0.49	1.09	0.12	0.06	0.17	0.00	0.00	6.36
8	2	92.89	0.00	0.00	0.00	4.84	5.94	0.54	0.03	0.03	0.49	1.09	0.12	0.06	0.17	0.00	0.00	6.40
8	3	92.81	0.00	0.00	0.00	4.84	5.91	0.54	0.03	0.03	0.50	1.09	0.12	0.06	0.17	0.00	0.00	6.43
8	4	92.73	0.00	0.00	0.00	4.84	5.89	0.54	0.03	0.03	0.50	1.10	0.12	0.06	0.17	0.00	0.00	6.46
8	5	92.65	0.00	0.00	0.00	4.84	5.87	0.54	0.03	0.03	0.50	1.10	0.12	0.06	0.17	0.00	0.00	6.50
8	6	92.57	0.00	0.00	0.00	4.84	5.85	0.54	0.03	0.03	0.51	1.10	0.12	0.06	0.17	0.00	0.00	6.54
8	7	92.50	0.00	0.00	0.00	4.84	5.82	0.54	0.03	0.03	0.51	1.10	0.12	0.06	0.17	0.00	0.00	6.57
8	8	92.42	0.00	0.00	0.00	4.84	5.80	0.54	0.03	0.03	0.51	1.10	0.12	0.06	0.17	0.00	0.00	6.61
8	9	92.35	0.00	0.00	0.00	4.84	5.78	0.54	0.03	0.03	0.51	1.11	0.11	0.06	0.17	0.00	0.00	6.65
8	10	92.28	0.00	0.00	0.00	4.85	5.76	0.54	0.03	0.03	0.52	1.11	0.11	0.06	0.17	0.00	0.00	6.69
8	11	92.21	0.00	0.00	0.00	4.85	5.74	0.53	0.03	0.03	0.52	1.11	0.11	0.06	0.17	0.00	0.00	6.73
8	12	92.15	0.00	0.00	0.00	4.86	5.72	0.53	0.03	0.03	0.52	1.11	0.11	0.06	0.17	0.00	0.00	6.77
8	13	92.08	0.00	0.00	0.00	4.86	5.70	0.53	0.03	0.03	0.52	1.11	0.11	0.06	0.17	0.00	0.00	6.81
8	14	92.02	0.00	0.00	0.00	4.86	5.68	0.53	0.03	0.03	0.53	1.12	0.11	0.06	0.17	0.00	0.00	6.85
8	15	91.96	0.00	0.00	0.00	4.87	5.66	0.53	0.03	0.03	0.53	1.12	0.11	0.06	0.17	0.00	0.00	6.90
8	16	91.90	0.00	0.00	0.00	4.87	5.65	0.53	0.03	0.03	0.53	1.12	0.11	0.06	0.17	0.00	0.00	6.94
8	17	91.83	0.00	0.00	0.00	4.88	5.71	0.53	0.03	0.03	0.53	1.13	0.11	0.06	0.17	0.00	0.00	6.99

8	18	91.57	0.00	0.00	0.00	4.78	7.68	0.60	0.06	0.03	0.52	1.21	0.12	0.08	0.20	0.00	0.00	7.19
8	19	91.52	0.00	0.00	0.00	4.75	7.63	0.59	0.06	0.03	0.53	1.22	0.12	0.08	0.20	0.00	0.00	7.25
8	20	91.47	0.00	0.00	0.00	4.73	7.59	0.59	0.06	0.04	0.53	1.22	0.12	0.08	0.20	0.00	0.00	7.32
9	1	91.42	0.00	0.00	0.00	4.71	7.55	0.59	0.05	0.04	0.53	1.22	0.12	0.08	0.20	0.00	0.00	7.39
9	2	91.38	0.00	0.00	0.00	4.70	7.51	0.59	0.05	0.04	0.54	1.22	0.12	0.08	0.20	0.00	0.00	7.45
9	3	91.33	0.00	0.00	0.00	4.68	7.49	0.59	0.05	0.04	0.55	1.23	0.12	0.08	0.21	0.00	0.00	7.51
9	4	91.17	0.00	0.00	0.00	4.60	7.82	0.59	0.08	0.04	0.69	1.40	0.14	0.09	0.23	0.00	0.00	7.41
9	5	91.13	0.00	0.00	0.00	4.58	7.78	0.59	0.07	0.05	0.69	1.40	0.14	0.09	0.23	0.00	0.00	7.49
9	6	91.09	0.00	0.00	0.00	4.56	7.75	0.59	0.07	0.05	0.69	1.41	0.14	0.09	0.23	0.00	0.00	7.58
9	7	91.06	0.00	0.00	0.00	4.55	7.71	0.59	0.07	0.05	0.70	1.41	0.14	0.09	0.23	0.00	0.00	7.66
9	8	91.02	0.00	0.00	0.00	4.53	7.67	0.59	0.06	0.05	0.70	1.41	0.14	0.09	0.23	0.00	0.00	7.74

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 21
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** WATER QUALITY VARIABLES **

RCH NUM	ELE NUM	TEMP DEG-F	CM-1	CM-2	CM-3	DO MG/L	BOD MG/L	ORGN MG/L	NH3N MG/L	NO2N MG/L	NO3N MG/L	SUM-N MG/L	ORGP MG/L	DIS-P MG/L	SUM-P MG/L	COLI #/100ML	ANC	CHLA UG/L
9	9	90.99	0.00	0.00	0.00	4.52	7.64	0.59	0.06	0.05	0.71	1.41	0.14	0.09	0.23	0.00	0.00	7.83
9	10	90.96	0.00	0.00	0.00	4.51	7.60	0.59	0.06	0.05	0.71	1.41	0.14	0.09	0.23	0.00	0.00	7.91
9	11	90.92	0.00	0.00	0.00	4.50	7.57	0.59	0.06	0.05	0.71	1.41	0.14	0.09	0.23	0.00	0.00	8.00
9	12	90.89	0.00	0.00	0.00	4.50	7.53	0.59	0.05	0.05	0.72	1.42	0.14	0.09	0.23	0.00	0.00	8.09
9	13	90.86	0.00	0.00	0.00	4.49	7.50	0.59	0.05	0.05	0.72	1.42	0.14	0.09	0.23	0.00	0.00	8.18
9	14	90.83	0.00	0.00	0.00	4.49	7.47	0.59	0.05	0.05	0.72	1.42	0.14	0.09	0.23	0.00	0.00	8.27
9	15	90.80	0.00	0.00	0.00	4.48	7.43	0.59	0.05	0.05	0.73	1.42	0.14	0.09	0.23	0.00	0.00	8.36
9	16	90.77	0.00	0.00	0.00	4.48	7.40	0.59	0.05	0.05	0.73	1.42	0.14	0.09	0.23	0.00	0.00	8.46
9	17	90.74	0.00	0.00	0.00	4.48	7.37	0.59	0.05	0.05	0.74	1.43	0.14	0.09	0.23	0.00	0.00	8.55
9	18	90.71	0.00	0.00	0.00	4.48	7.34	0.59	0.05	0.05	0.74	1.43	0.14	0.09	0.23	0.00	0.00	8.65
9	19	90.69	0.00	0.00	0.00	4.48	7.31	0.59	0.04	0.05	0.74	1.43	0.14	0.09	0.23	0.00	0.00	8.74
9	20	90.66	0.00	0.00	0.00	4.48	7.28	0.59	0.04	0.05	0.75	1.43	0.14	0.09	0.24	0.00	0.00	8.84
10	1	90.63	0.00	0.00	0.00	4.49	7.25	0.59	0.04	0.05	0.75	1.43	0.14	0.09	0.24	0.00	0.00	8.94
10	2	90.61	0.00	0.00	0.00	4.49	7.23	0.59	0.04	0.05	0.75	1.43	0.14	0.09	0.24	0.00	0.00	9.04
10	3	90.59	0.00	0.00	0.00	4.50	7.21	0.59	0.04	0.05	0.76	1.44	0.14	0.09	0.24	0.00	0.00	9.14
10	4	90.56	0.00	0.00	0.00	4.50	7.18	0.59	0.04	0.05	0.76	1.44	0.14	0.10	0.24	0.00	0.00	9.24
10	5	90.54	0.00	0.00	0.00	4.51	7.16	0.59	0.04	0.05	0.76	1.44	0.14	0.10	0.24	0.00	0.00	9.34
10	6	90.52	0.00	0.00	0.00	4.51	7.14	0.59	0.04	0.05	0.77	1.44	0.14	0.10	0.24	0.00	0.00	9.44
10	7	90.50	0.00	0.00	0.00	4.52	7.12	0.59	0.04	0.05	0.77	1.44	0.14	0.10	0.24	0.00	0.00	9.55
10	8	90.47	0.00	0.00	0.00	4.53	7.10	0.59	0.04	0.05	0.77	1.44	0.14	0.10	0.24	0.00	0.00	9.65
10	9	90.45	0.00	0.00	0.00	4.53	7.08	0.59	0.04	0.05	0.78	1.45	0.14	0.10	0.24	0.00	0.00	9.76
10	10	90.43	0.00	0.00	0.00	4.54	7.06	0.59	0.04	0.05	0.78	1.45	0.14	0.10	0.24	0.00	0.00	9.87
10	11	90.41	0.00	0.00	0.00	4.55	7.04	0.59	0.04	0.05	0.78	1.45	0.14	0.10	0.24	0.00	0.00	9.98
10	12	90.39	0.00	0.00	0.00	4.56	7.02	0.59	0.04	0.04	0.78	1.45	0.14	0.10	0.24	0.00	0.00	10.09
10	13	90.37	0.00	0.00	0.00	4.56	7.00	0.59	0.04	0.04	0.79	1.45	0.14	0.10	0.24	0.00	0.00	10.20

10	14	90.35	0.00	0.00	0.00	4.57	6.98	0.59	0.04	0.04	0.79	1.46	0.14	0.10	0.24	0.00	0.00	10.31
10	15	90.33	0.00	0.00	0.00	4.58	6.96	0.59	0.03	0.04	0.79	1.46	0.14	0.10	0.24	0.00	0.00	10.43
10	16	90.32	0.00	0.00	0.00	4.59	6.94	0.59	0.03	0.04	0.79	1.46	0.14	0.10	0.24	0.00	0.00	10.55
10	17	90.30	0.00	0.00	0.00	4.60	6.92	0.59	0.03	0.04	0.80	1.46	0.14	0.10	0.24	0.00	0.00	10.66
10	18	90.28	0.00	0.00	0.00	4.60	6.91	0.59	0.03	0.04	0.80	1.46	0.14	0.10	0.24	0.00	0.00	10.78
10	19	90.26	0.00	0.00	0.00	4.61	6.89	0.59	0.03	0.04	0.80	1.46	0.14	0.10	0.24	0.00	0.00	10.90
10	20	90.25	0.00	0.00	0.00	4.62	6.87	0.59	0.03	0.04	0.80	1.47	0.14	0.10	0.24	0.00	0.00	11.02
11	1	90.23	0.00	0.00	0.00	4.63	6.85	0.59	0.03	0.04	0.81	1.47	0.14	0.10	0.24	0.00	0.00	11.15
11	2	90.22	0.00	0.00	0.00	4.64	6.82	0.58	0.03	0.04	0.81	1.47	0.14	0.10	0.24	0.00	0.00	11.27
11	3	90.20	0.00	0.00	0.00	4.65	6.80	0.58	0.03	0.04	0.81	1.47	0.14	0.10	0.24	0.00	0.00	11.39
11	4	90.19	0.00	0.00	0.00	4.66	6.78	0.58	0.03	0.04	0.81	1.47	0.14	0.10	0.24	0.00	0.00	11.51
11	5	90.17	0.00	0.00	0.00	4.67	6.76	0.58	0.03	0.04	0.81	1.47	0.14	0.10	0.24	0.00	0.00	11.63
11	6	90.16	0.00	0.00	0.00	4.68	6.74	0.58	0.03	0.04	0.82	1.47	0.14	0.10	0.24	0.00	0.00	11.75
11	7	90.15	0.00	0.00	0.00	4.69	6.72	0.58	0.03	0.04	0.82	1.47	0.14	0.10	0.24	0.00	0.00	11.88
11	8	90.13	0.00	0.00	0.00	4.70	6.70	0.58	0.03	0.04	0.82	1.47	0.14	0.10	0.24	0.00	0.00	12.01
11	9	90.12	0.00	0.00	0.00	4.70	6.68	0.58	0.03	0.04	0.82	1.47	0.14	0.10	0.24	0.00	0.00	12.13
11	10	90.11	0.00	0.00	0.00	4.71	6.67	0.58	0.03	0.04	0.82	1.47	0.14	0.10	0.24	0.00	0.00	12.26

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 22
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** WATER QUALITY VARIABLES **

RCH NUM	ELE NUM	TEMP DEG-F	CM-1	CM-2	CM-3	DO MG/L	BOD MG/L	ORGN MG/L	NH3N MG/L	NO2N MG/L	NO3N MG/L	SUM-N MG/L	ORGP MG/L	DIS-P MG/L	SUM-P MG/L	COLI #/100ML	ANC	CHLA UG/L
11	11	90.09	0.00	0.00	0.00	4.72	6.65	0.57	0.03	0.04	0.83	1.47	0.14	0.10	0.24	0.00	0.00	12.40
11	12	90.08	0.00	0.00	0.00	4.73	6.63	0.57	0.03	0.04	0.83	1.47	0.14	0.10	0.24	0.00	0.00	12.53
11	13	90.07	0.00	0.00	0.00	4.74	6.61	0.57	0.03	0.04	0.83	1.47	0.14	0.10	0.24	0.00	0.00	12.66
11	14	90.06	0.00	0.00	0.00	4.75	6.59	0.57	0.03	0.04	0.83	1.47	0.14	0.10	0.24	0.00	0.00	12.80
11	15	90.05	0.00	0.00	0.00	4.76	6.57	0.57	0.03	0.04	0.83	1.47	0.14	0.11	0.24	0.00	0.00	12.93
11	16	90.03	0.00	0.00	0.00	4.77	6.56	0.57	0.03	0.04	0.84	1.47	0.14	0.11	0.24	0.00	0.00	13.07
11	17	90.02	0.00	0.00	0.00	4.78	6.54	0.57	0.03	0.04	0.84	1.47	0.14	0.11	0.24	0.00	0.00	13.21
11	18	90.01	0.00	0.00	0.00	4.79	6.52	0.57	0.03	0.04	0.84	1.47	0.14	0.11	0.24	0.00	0.00	13.35
11	19	90.00	0.00	0.00	0.00	4.80	6.50	0.57	0.03	0.04	0.84	1.47	0.14	0.11	0.24	0.00	0.00	13.49
11	20	89.99	0.00	0.00	0.00	4.81	6.49	0.57	0.03	0.04	0.84	1.47	0.14	0.11	0.24	0.00	0.00	13.64
12	1	89.98	0.00	0.00	0.00	4.80	6.46	0.56	0.03	0.03	0.84	1.47	0.13	0.11	0.24	0.00	0.00	13.72
12	2	89.97	0.00	0.00	0.00	4.79	6.43	0.56	0.03	0.03	0.85	1.47	0.13	0.11	0.24	0.00	0.00	13.80
12	3	89.96	0.00	0.00	0.00	4.78	6.40	0.56	0.03	0.03	0.85	1.47	0.13	0.11	0.24	0.00	0.00	13.89
12	4	89.95	0.00	0.00	0.00	4.77	6.37	0.56	0.03	0.03	0.85	1.48	0.13	0.11	0.24	0.00	0.00	13.98
12	5	89.94	0.00	0.00	0.00	4.77	6.34	0.56	0.03	0.03	0.85	1.48	0.13	0.11	0.24	0.00	0.00	14.07
12	6	89.93	0.00	0.00	0.00	4.76	6.31	0.56	0.03	0.03	0.85	1.48	0.13	0.11	0.24	0.00	0.00	14.16
12	7	89.92	0.00	0.00	0.00	4.75	6.28	0.56	0.03	0.03	0.86	1.48	0.13	0.11	0.24	0.00	0.00	14.26
12	8	89.92	0.00	0.00	0.00	4.74	6.26	0.55	0.03	0.03	0.86	1.48	0.13	0.11	0.24	0.00	0.00	14.35
12	9	89.91	0.00	0.00	0.00	4.74	6.23	0.55	0.03	0.03	0.86	1.48	0.13	0.11	0.24	0.00	0.00	14.44

12	10	89.90	0.00	0.00	0.00	4.73	6.20	0.55	0.03	0.03	0.86	1.48	0.13	0.11	0.24	0.00	0.00	14.54
12	11	89.89	0.00	0.00	0.00	4.73	6.17	0.55	0.03	0.03	0.86	1.48	0.13	0.11	0.24	0.00	0.00	14.63
12	12	89.88	0.00	0.00	0.00	4.72	6.15	0.55	0.03	0.03	0.87	1.48	0.13	0.11	0.24	0.00	0.00	14.73
12	13	89.87	0.00	0.00	0.00	4.72	6.12	0.55	0.03	0.03	0.87	1.48	0.13	0.11	0.24	0.00	0.00	14.82
12	14	89.87	0.00	0.00	0.00	4.72	6.10	0.55	0.03	0.03	0.87	1.48	0.13	0.11	0.24	0.00	0.00	14.92
12	15	89.86	0.00	0.00	0.00	4.71	6.07	0.55	0.03	0.03	0.87	1.48	0.13	0.11	0.24	0.00	0.00	15.02
12	16	89.85	0.00	0.00	0.00	4.71	6.05	0.54	0.03	0.03	0.87	1.48	0.13	0.11	0.24	0.00	0.00	15.12
12	17	89.84	0.00	0.00	0.00	4.71	6.02	0.54	0.03	0.03	0.88	1.48	0.13	0.11	0.24	0.00	0.00	15.22
12	18	89.83	0.00	0.00	0.00	4.71	6.00	0.54	0.03	0.03	0.88	1.48	0.13	0.11	0.24	0.00	0.00	15.32
12	19	89.83	0.00	0.00	0.00	4.71	5.97	0.54	0.03	0.03	0.88	1.48	0.13	0.11	0.24	0.00	0.00	15.42
12	20	89.82	0.00	0.00	0.00	4.71	5.95	0.54	0.03	0.03	0.88	1.48	0.13	0.11	0.24	0.00	0.00	15.52
13	1	89.81	0.00	0.00	0.00	4.70	5.92	0.54	0.03	0.03	0.88	1.48	0.13	0.11	0.24	0.00	0.00	15.59
13	2	89.81	0.00	0.00	0.00	4.68	5.88	0.54	0.03	0.03	0.89	1.48	0.12	0.11	0.24	0.00	0.00	15.66
13	3	89.80	0.00	0.00	0.00	4.66	5.84	0.53	0.03	0.03	0.89	1.48	0.12	0.11	0.24	0.00	0.00	15.73
13	4	89.79	0.00	0.00	0.00	4.65	5.81	0.53	0.03	0.03	0.89	1.48	0.12	0.11	0.24	0.00	0.00	15.81
13	5	89.79	0.00	0.00	0.00	4.63	5.77	0.53	0.03	0.03	0.89	1.48	0.12	0.12	0.24	0.00	0.00	15.88
13	6	89.78	0.00	0.00	0.00	4.62	5.74	0.53	0.03	0.03	0.89	1.48	0.12	0.12	0.24	0.00	0.00	15.96
13	7	89.77	0.00	0.00	0.00	4.61	5.71	0.53	0.03	0.03	0.90	1.48	0.12	0.12	0.24	0.00	0.00	16.03
13	8	89.77	0.00	0.00	0.00	4.60	5.67	0.53	0.03	0.03	0.90	1.49	0.12	0.12	0.24	0.00	0.00	16.11
13	9	89.76	0.00	0.00	0.00	4.59	5.64	0.53	0.03	0.03	0.90	1.49	0.12	0.12	0.24	0.00	0.00	16.19
13	10	89.76	0.00	0.00	0.00	4.58	5.61	0.52	0.03	0.03	0.90	1.49	0.12	0.12	0.24	0.00	0.00	16.26
13	11	89.75	0.00	0.00	0.00	4.57	5.58	0.52	0.03	0.03	0.90	1.49	0.12	0.12	0.24	0.00	0.00	16.34
13	12	89.74	0.00	0.00	0.00	4.56	5.55	0.52	0.03	0.03	0.91	1.49	0.12	0.12	0.24	0.00	0.00	16.42

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 23
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** WATER QUALITY VARIABLES **

RCH NUM	ELE NUM	TEMP DEG-F	CM-1	CM-2	CM-3	DO MG/L	BOD MG/L	ORGN MG/L	NH3N MG/L	NO2N MG/L	NO3N MG/L	SUM-N MG/L	ORGP MG/L	DIS-P MG/L	SUM-P MG/L	COLI #/100ML	ANC	CHLA UG/L
13	13	89.74	0.00	0.00	0.00	4.55	5.51	0.52	0.03	0.03	0.91	1.49	0.12	0.12	0.24	0.00	0.00	16.50
13	14	89.73	0.00	0.00	0.00	4.54	5.48	0.52	0.03	0.03	0.91	1.49	0.12	0.12	0.24	0.00	0.00	16.58
13	15	89.73	0.00	0.00	0.00	4.54	5.45	0.52	0.03	0.03	0.91	1.49	0.12	0.12	0.24	0.00	0.00	16.66
13	16	89.72	0.00	0.00	0.00	4.53	5.42	0.52	0.03	0.03	0.91	1.49	0.12	0.12	0.24	0.00	0.00	16.74
13	17	89.72	0.00	0.00	0.00	4.53	5.40	0.51	0.03	0.03	0.92	1.49	0.12	0.12	0.24	0.00	0.00	16.82
13	18	89.71	0.00	0.00	0.00	4.52	5.37	0.51	0.03	0.03	0.92	1.49	0.12	0.12	0.24	0.00	0.00	16.90
13	19	89.71	0.00	0.00	0.00	4.52	5.34	0.51	0.03	0.03	0.92	1.49	0.12	0.12	0.24	0.00	0.00	16.99
13	20	89.70	0.00	0.00	0.00	4.52	5.31	0.51	0.03	0.03	0.92	1.49	0.12	0.12	0.24	0.00	0.00	17.07
14	1	89.70	0.00	0.00	0.00	4.52	5.28	0.51	0.03	0.03	0.92	1.49	0.12	0.12	0.24	0.00	0.00	17.19
14	2	89.69	0.00	0.00	0.00	4.52	5.24	0.51	0.03	0.03	0.93	1.49	0.12	0.12	0.24	0.00	0.00	17.32
14	3	89.69	0.00	0.00	0.00	4.53	5.21	0.51	0.03	0.03	0.93	1.49	0.11	0.12	0.24	0.00	0.00	17.44
14	4	89.68	0.00	0.00	0.00	4.53	5.18	0.51	0.03	0.03	0.93	1.49	0.11	0.12	0.24	0.00	0.00	17.57
14	5	89.68	0.00	0.00	0.00	4.54	5.15	0.50	0.03	0.03	0.93	1.49	0.11	0.12	0.24	0.00	0.00	17.70

14	6	89.67	0.00	0.00	0.00	4.55	5.12	0.50	0.03	0.03	0.93	1.49	0.11	0.12	0.24	0.00	0.00	17.83
14	7	89.67	0.00	0.00	0.00	4.55	5.08	0.50	0.03	0.03	0.93	1.49	0.11	0.12	0.24	0.00	0.00	17.96
14	8	89.66	0.00	0.00	0.00	4.56	5.05	0.50	0.03	0.03	0.94	1.49	0.11	0.12	0.23	0.00	0.00	18.09
14	9	89.66	0.00	0.00	0.00	4.57	5.02	0.50	0.03	0.03	0.94	1.49	0.11	0.12	0.23	0.00	0.00	18.22
14	10	89.65	0.00	0.00	0.00	4.57	4.99	0.50	0.03	0.03	0.94	1.49	0.11	0.12	0.23	0.00	0.00	18.35
14	11	89.65	0.00	0.00	0.00	4.58	4.96	0.50	0.03	0.03	0.94	1.49	0.11	0.12	0.23	0.00	0.00	18.49
14	12	89.64	0.00	0.00	0.00	4.59	4.94	0.50	0.03	0.03	0.94	1.49	0.11	0.12	0.23	0.00	0.00	18.62
14	13	89.64	0.00	0.00	0.00	4.60	4.91	0.49	0.03	0.03	0.94	1.49	0.11	0.12	0.23	0.00	0.00	18.76
14	14	89.63	0.00	0.00	0.00	4.61	4.88	0.49	0.03	0.03	0.95	1.49	0.11	0.12	0.23	0.00	0.00	18.89
14	15	89.63	0.00	0.00	0.00	4.61	4.85	0.49	0.03	0.03	0.95	1.50	0.11	0.12	0.23	0.00	0.00	19.03
14	16	89.62	0.00	0.00	0.00	4.62	4.82	0.49	0.03	0.03	0.95	1.50	0.11	0.12	0.23	0.00	0.00	19.17
14	17	89.62	0.00	0.00	0.00	4.63	4.80	0.49	0.03	0.03	0.95	1.50	0.11	0.12	0.23	0.00	0.00	19.31
14	18	89.62	0.00	0.00	0.00	4.64	4.77	0.49	0.03	0.03	0.95	1.50	0.11	0.13	0.23	0.00	0.00	19.44
14	19	89.61	0.00	0.00	0.00	4.65	4.75	0.49	0.03	0.03	0.95	1.50	0.11	0.13	0.23	0.00	0.00	19.59
14	20	89.61	0.00	0.00	0.00	4.66	4.72	0.49	0.03	0.03	0.96	1.50	0.11	0.13	0.23	0.00	0.00	19.73
15	1	89.60	0.00	0.00	0.00	4.67	4.69	0.48	0.03	0.03	0.96	1.50	0.11	0.13	0.23	0.00	0.00	19.92
15	2	89.60	0.00	0.00	0.00	4.69	4.66	0.48	0.03	0.03	0.96	1.50	0.11	0.13	0.23	0.00	0.00	20.12
15	3	89.60	0.00	0.00	0.00	4.71	4.63	0.48	0.03	0.03	0.96	1.50	0.11	0.13	0.23	0.00	0.00	20.32
15	4	89.59	0.00	0.00	0.00	4.73	4.60	0.48	0.03	0.03	0.96	1.50	0.11	0.13	0.23	0.00	0.00	20.52
15	5	89.59	0.00	0.00	0.00	4.74	4.57	0.48	0.03	0.03	0.96	1.50	0.11	0.13	0.23	0.00	0.00	20.72
15	6	89.58	0.00	0.00	0.00	4.76	4.55	0.48	0.03	0.03	0.96	1.50	0.11	0.13	0.23	0.00	0.00	20.93
15	7	89.58	0.00	0.00	0.00	4.78	4.52	0.48	0.03	0.03	0.97	1.50	0.10	0.13	0.23	0.00	0.00	21.13
15	8	89.58	0.00	0.00	0.00	4.80	4.49	0.48	0.03	0.03	0.97	1.50	0.10	0.13	0.23	0.00	0.00	21.34
15	9	89.57	0.00	0.00	0.00	4.81	4.46	0.48	0.03	0.03	0.97	1.50	0.10	0.13	0.23	0.00	0.00	21.55
15	10	89.57	0.00	0.00	0.00	4.83	4.44	0.48	0.03	0.03	0.97	1.50	0.10	0.13	0.23	0.00	0.00	21.76
15	11	89.57	0.00	0.00	0.00	4.85	4.41	0.47	0.03	0.03	0.97	1.50	0.10	0.13	0.23	0.00	0.00	21.97
15	12	89.56	0.00	0.00	0.00	4.86	4.39	0.47	0.03	0.03	0.97	1.50	0.10	0.13	0.23	0.00	0.00	22.18
15	13	89.56	0.00	0.00	0.00	4.88	4.36	0.47	0.03	0.03	0.97	1.50	0.10	0.13	0.23	0.00	0.00	22.39
15	14	89.55	0.00	0.00	0.00	4.90	4.34	0.47	0.03	0.03	0.98	1.50	0.10	0.13	0.23	0.00	0.00	22.61

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 24
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** WATER QUALITY VARIABLES **

RCH NUM	ELE NUM	TEMP DEG-F	CM-1	CM-2	CM-3	DO MG/L	BOD MG/L	ORGN MG/L	NH3N MG/L	NO2N MG/L	NO3N MG/L	SUM-N MG/L	ORGP MG/L	DIS-P MG/L	SUM-P MG/L	COLI #/100ML	ANC	CHLA UG/L
15	15	89.55	0.00	0.00	0.00	4.91	4.31	0.47	0.03	0.03	0.98	1.50	0.10	0.13	0.23	0.00	0.00	22.82
15	16	89.55	0.00	0.00	0.00	4.93	4.29	0.47	0.03	0.03	0.98	1.50	0.10	0.13	0.23	0.00	0.00	23.04
15	17	89.55	0.00	0.00	0.00	4.94	4.26	0.47	0.03	0.03	0.98	1.50	0.10	0.13	0.23	0.00	0.00	23.26
15	18	89.54	0.00	0.00	0.00	4.96	4.24	0.47	0.03	0.03	0.98	1.50	0.10	0.13	0.23	0.00	0.00	23.48
15	19	89.54	0.00	0.00	0.00	4.97	4.22	0.47	0.02	0.03	0.98	1.50	0.10	0.13	0.23	0.00	0.00	23.70
15	20	89.54	0.00	0.00	0.00	4.99	4.19	0.47	0.02	0.03	0.98	1.50	0.10	0.13	0.23	0.00	0.00	23.94
16	1	89.53	0.00	0.00	0.00	5.01	4.17	0.47	0.02	0.03	0.98	1.50	0.10	0.13	0.23	0.00	0.00	24.32

16	2	89.53	0.00	0.00	0.00	5.04	4.14	0.46	0.02	0.03	0.98	1.50	0.10	0.13	0.23	0.00	0.00	24.72
16	3	89.53	0.00	0.00	0.00	5.07	4.12	0.46	0.02	0.03	0.99	1.50	0.10	0.13	0.23	0.00	0.00	25.11
16	4	89.52	0.00	0.00	0.00	5.09	4.09	0.46	0.02	0.03	0.99	1.50	0.10	0.13	0.23	0.00	0.00	25.51
16	5	89.52	0.00	0.00	0.00	5.12	4.06	0.46	0.02	0.03	0.99	1.50	0.10	0.13	0.23	0.00	0.00	25.91
16	6	89.52	0.00	0.00	0.00	5.15	4.04	0.46	0.02	0.03	0.99	1.50	0.10	0.13	0.23	0.00	0.00	26.32
16	7	89.52	0.00	0.00	0.00	5.17	4.02	0.46	0.02	0.03	0.99	1.50	0.10	0.13	0.23	0.00	0.00	26.73
16	8	89.51	0.00	0.00	0.00	5.20	3.99	0.46	0.02	0.03	0.99	1.50	0.10	0.13	0.23	0.00	0.00	27.15
16	9	89.51	0.00	0.00	0.00	5.22	3.97	0.46	0.02	0.03	0.99	1.50	0.10	0.13	0.23	0.00	0.00	27.57
16	10	89.51	0.00	0.00	0.00	5.24	3.95	0.46	0.02	0.03	0.99	1.50	0.10	0.13	0.23	0.00	0.00	27.99
16	11	89.50	0.00	0.00	0.00	5.26	3.92	0.46	0.02	0.03	0.99	1.50	0.10	0.13	0.23	0.00	0.00	28.41
16	12	89.50	0.00	0.00	0.00	5.29	3.90	0.46	0.02	0.03	0.99	1.50	0.10	0.13	0.23	0.00	0.00	28.84
16	13	89.50	0.00	0.00	0.00	5.31	3.88	0.46	0.02	0.03	0.99	1.50	0.10	0.13	0.23	0.00	0.00	29.28
16	14	89.50	0.00	0.00	0.00	5.33	3.86	0.46	0.02	0.03	0.99	1.50	0.10	0.13	0.23	0.00	0.00	29.71
16	15	89.49	0.00	0.00	0.00	5.35	3.84	0.46	0.02	0.03	0.99	1.50	0.10	0.13	0.23	0.00	0.00	30.15
16	16	89.49	0.00	0.00	0.00	5.37	3.81	0.46	0.02	0.03	0.99	1.50	0.10	0.13	0.23	0.00	0.00	30.60
16	17	89.49	0.00	0.00	0.00	5.39	3.79	0.45	0.02	0.03	0.99	1.50	0.09	0.13	0.23	0.00	0.00	31.04
16	18	89.49	0.00	0.00	0.00	5.41	3.77	0.45	0.02	0.03	0.99	1.50	0.09	0.13	0.23	0.00	0.00	31.49
16	19	89.49	0.00	0.00	0.00	5.43	3.75	0.45	0.02	0.03	0.99	1.50	0.09	0.13	0.23	0.00	0.00	31.95
16	20	89.48	0.00	0.00	0.00	5.45	3.73	0.45	0.02	0.03	0.99	1.50	0.09	0.13	0.23	0.00	0.00	32.41
17	1	89.48	0.00	0.00	0.00	5.47	3.73	0.45	0.02	0.03	0.99	1.50	0.09	0.13	0.22	0.00	0.00	32.97
17	2	89.48	0.00	0.00	0.00	5.50	3.73	0.45	0.02	0.02	0.99	1.50	0.09	0.13	0.22	0.00	0.00	33.53
17	3	89.48	0.00	0.00	0.00	5.53	3.72	0.45	0.02	0.02	0.99	1.50	0.09	0.13	0.22	0.00	0.00	34.10
17	4	89.47	0.00	0.00	0.00	5.55	3.72	0.45	0.02	0.02	0.99	1.50	0.09	0.13	0.22	0.00	0.00	34.67
17	5	89.47	0.00	0.00	0.00	5.57	3.72	0.46	0.02	0.02	0.99	1.50	0.09	0.13	0.22	0.00	0.00	35.24
17	6	89.47	0.00	0.00	0.00	5.60	3.71	0.46	0.02	0.02	0.99	1.50	0.09	0.13	0.22	0.00	0.00	35.82
17	7	89.47	0.00	0.00	0.00	5.62	3.71	0.46	0.02	0.02	0.99	1.50	0.09	0.13	0.22	0.00	0.00	36.41
17	8	89.47	0.00	0.00	0.00	5.64	3.71	0.46	0.02	0.02	0.99	1.50	0.09	0.13	0.22	0.00	0.00	37.00
17	9	89.46	0.00	0.00	0.00	5.66	3.70	0.46	0.02	0.02	0.99	1.50	0.09	0.13	0.22	0.00	0.00	37.59
17	10	89.46	0.00	0.00	0.00	5.68	3.70	0.46	0.02	0.02	0.99	1.50	0.09	0.13	0.22	0.00	0.00	38.19
17	11	89.46	0.00	0.00	0.00	5.70	3.70	0.46	0.02	0.02	0.99	1.50	0.09	0.13	0.22	0.00	0.00	38.78
17	12	89.46	0.00	0.00	0.00	5.72	3.70	0.46	0.02	0.02	0.99	1.50	0.09	0.13	0.22	0.00	0.00	39.34

STREAM QUALITY SIMULATION — OUTPUT PAGE NUMBER 25
QUAL-2E STREAM QUALITY ROUTING MODEL — Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** ALGAE DATA **

ELE ORD	RCH NUM	ELE NUM	CHLA UG/L	ALGY GRWTH 1/DAY	ALGY RESP 1/DAY	ALGY SETT FT/DA	A P/R RATIO *	NET P-R MG/L-D	NH3 PREF *	NH3-N FRACT N-UPTKE *	LIGHT EXTCO 1/FT	ALGAE GROWTH RATE ATTEN FACTORS LIGHT *	NITRGN *	PHSPRS *
1	1	1	11.66	0.07	0.09	0.07	0.60	-0.02	0.50	0.18	0.84	0.12	0.46	0.33
2	1	2	11.63	0.07	0.09	0.07	0.60	-0.02	0.50	0.17	0.84	0.12	0.46	0.33
3	1	3	11.59	0.07	0.09	0.07	0.61	-0.02	0.50	0.17	0.84	0.12	0.46	0.34
4	1	4	11.55	0.07	0.09	0.07	0.61	-0.02	0.50	0.17	0.84	0.12	0.46	0.34

5	1	5	11.52	0.07	0.09	0.07	0.61	-0.02	0.50	0.17	0.84	0.12	0.47	0.34
6	1	6	11.48	0.07	0.09	0.07	0.62	-0.02	0.50	0.17	0.84	0.12	0.47	0.34
7	1	7	11.45	0.07	0.09	0.07	0.62	-0.02	0.50	0.17	0.83	0.12	0.47	0.34
8	1	8	11.42	0.07	0.09	0.07	0.62	-0.02	0.50	0.17	0.83	0.12	0.47	0.34
9	1	9	11.38	0.07	0.09	0.07	0.63	-0.02	0.50	0.17	0.83	0.12	0.47	0.34
10	1	10	11.35	0.07	0.09	0.07	0.63	-0.02	0.50	0.17	0.83	0.12	0.47	0.34
11	1	11	11.32	0.07	0.09	0.07	0.63	-0.02	0.50	0.16	0.83	0.12	0.48	0.34
12	1	12	11.29	0.07	0.09	0.07	0.64	-0.02	0.50	0.16	0.83	0.12	0.48	0.34
13	1	13	11.26	0.07	0.09	0.07	0.64	-0.02	0.50	0.16	0.83	0.12	0.48	0.34
14	1	14	11.23	0.07	0.09	0.07	0.64	-0.02	0.50	0.16	0.83	0.12	0.48	0.34
15	1	15	11.20	0.07	0.09	0.07	0.65	-0.02	0.50	0.16	0.83	0.12	0.48	0.34
16	1	16	11.17	0.07	0.09	0.07	0.65	-0.02	0.50	0.16	0.83	0.12	0.48	0.34
17	1	17	11.15	0.07	0.09	0.07	0.65	-0.02	0.50	0.16	0.83	0.12	0.48	0.34
18	1	18	11.12	0.07	0.09	0.07	0.66	-0.02	0.50	0.16	0.83	0.12	0.49	0.34
19	1	19	11.09	0.08	0.09	0.07	0.66	-0.02	0.50	0.16	0.83	0.12	0.49	0.34
20	1	20	11.07	0.08	0.09	0.07	0.66	-0.02	0.50	0.15	0.83	0.12	0.49	0.34
21	2	1	11.05	0.08	0.09	0.07	0.71	-0.01	0.50	0.15	0.83	0.13	0.49	0.35
22	2	2	11.03	0.08	0.09	0.07	0.72	-0.01	0.50	0.15	0.83	0.13	0.49	0.35
23	2	3	11.01	0.08	0.09	0.07	0.72	-0.01	0.50	0.15	0.83	0.13	0.49	0.35
24	2	4	11.00	0.08	0.09	0.07	0.72	-0.01	0.50	0.15	0.83	0.13	0.49	0.35
25	2	5	10.98	0.08	0.09	0.07	0.73	-0.01	0.50	0.15	0.83	0.13	0.50	0.35
26	2	6	10.97	0.08	0.09	0.07	0.73	-0.01	0.50	0.15	0.83	0.13	0.50	0.35
27	2	7	10.97	0.08	0.09	0.07	0.73	-0.01	0.50	0.15	0.83	0.13	0.50	0.35
28	2	8	11.39	0.08	0.09	0.07	0.75	-0.01	0.50	0.14	0.83	0.13	0.50	0.36
29	2	9	11.38	0.08	0.09	0.07	0.76	-0.01	0.50	0.14	0.83	0.13	0.51	0.36
30	2	10	11.33	0.09	0.09	0.07	0.76	-0.01	0.50	0.14	0.83	0.13	0.51	0.36
31	2	11	11.26	0.09	0.09	0.07	0.77	-0.01	0.50	0.14	0.83	0.13	0.51	0.36
32	2	12	7.29	0.11	0.11	0.07	0.80	-0.01	0.50	0.13	0.80	0.13	0.52	0.35
33	2	13	7.29	0.11	0.11	0.07	0.80	-0.01	0.50	0.13	0.80	0.13	0.52	0.35
34	2	14	7.29	0.11	0.11	0.07	0.81	-0.01	0.50	0.13	0.80	0.13	0.52	0.36
35	2	15	7.32	0.11	0.11	0.07	0.82	-0.01	0.50	0.14	0.80	0.13	0.53	0.36
36	2	16	7.32	0.11	0.11	0.07	0.84	-0.01	0.50	0.14	0.80	0.13	0.53	0.36
37	2	17	7.29	0.13	0.10	0.07	0.99	0.00	0.50	0.37	0.80	0.13	0.61	0.37
38	2	18	7.31	0.13	0.10	0.07	0.99	0.00	0.50	0.36	0.80	0.13	0.61	0.37
39	2	19	7.32	0.13	0.10	0.07	0.99	0.00	0.50	0.35	0.80	0.13	0.61	0.37
40	2	20	7.34	0.13	0.10	0.07	0.99	0.00	0.50	0.34	0.80	0.13	0.60	0.38
41	3	1	7.34	0.12	0.10	0.07	0.87	0.00	0.50	0.33	0.98	0.12	0.60	0.38
42	3	2	7.35	0.12	0.10	0.07	0.88	0.00	0.50	0.31	0.98	0.12	0.60	0.38

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 26
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** ALGAE DATA **

ELE	RCH	ELE	ALGY	ALGY	ALGY	A P/R	NET	NH3	NH3-N FRACT	ALGAE GROWTH RATE ATTEN FACTORS LIGHT			

ORD	NUM	NUM	CHLA UG/L	GRWTH 1/DAY	RESP 1/DAY	SETT FT/DA	RATIO *	P-R MG/L-D	PREF *	N-UPTKE *	EXTCO 1/FT	LIGHT *	NITRGN *	PHSPRS *
43	3	3	7.35	0.12	0.10	0.07	0.88	0.00	0.50	0.30	0.98	0.12	0.60	0.38
44	3	4	7.35	0.12	0.10	0.07	0.88	0.00	0.50	0.29	0.98	0.12	0.60	0.38
45	3	5	7.35	0.12	0.10	0.07	0.95	0.00	0.50	0.24	0.98	0.12	0.64	0.38
46	3	6	7.36	0.12	0.10	0.07	0.95	0.00	0.50	0.23	0.98	0.12	0.64	0.39
47	3	7	7.37	0.12	0.10	0.07	0.95	0.00	0.50	0.22	0.98	0.12	0.64	0.39
48	3	8	7.38	0.12	0.10	0.07	0.96	0.00	0.50	0.22	0.98	0.12	0.64	0.39
49	3	9	7.39	0.12	0.10	0.07	0.96	0.00	0.50	0.21	0.98	0.12	0.64	0.39
50	3	10	7.44	0.12	0.10	0.07	0.96	0.00	0.50	0.20	0.98	0.12	0.64	0.39
51	3	11	7.45	0.12	0.10	0.07	0.97	0.00	0.50	0.20	0.98	0.12	0.64	0.39
52	3	12	7.46	0.12	0.10	0.07	0.98	0.00	0.50	0.19	0.98	0.12	0.64	0.40
53	3	13	7.47	0.13	0.10	0.07	0.98	0.00	0.50	0.19	0.98	0.12	0.64	0.40
54	3	14	7.49	0.13	0.10	0.07	0.99	0.00	0.50	0.18	0.98	0.12	0.64	0.40
55	3	15	7.50	0.13	0.10	0.07	0.99	0.00	0.50	0.17	0.98	0.12	0.64	0.40
56	3	16	7.52	0.13	0.10	0.07	1.00	0.00	0.50	0.17	0.98	0.12	0.64	0.40
57	3	17	7.53	0.13	0.10	0.07	1.00	0.00	0.50	0.16	0.98	0.12	0.64	0.41
58	3	18	7.55	0.13	0.10	0.07	1.01	0.00	0.50	0.16	0.98	0.12	0.64	0.41
59	3	19	7.56	0.13	0.10	0.07	1.02	0.00	0.50	0.16	0.98	0.12	0.65	0.41
60	3	20	7.58	0.13	0.10	0.07	1.02	0.00	0.50	0.15	0.98	0.12	0.65	0.41
61	4	1	7.57	0.10	0.10	0.07	0.78	-0.01	0.50	0.15	0.98	0.09	0.65	0.41
62	4	2	7.57	0.10	0.10	0.07	0.79	-0.01	0.50	0.14	0.98	0.09	0.65	0.42
63	4	3	7.56	0.10	0.10	0.07	0.80	-0.01	0.50	0.14	0.98	0.09	0.65	0.42
64	4	4	7.56	0.10	0.10	0.07	0.80	-0.01	0.50	0.13	0.98	0.09	0.65	0.42
65	4	5	7.56	0.10	0.10	0.07	0.81	-0.01	0.50	0.13	0.98	0.09	0.65	0.43
66	4	6	7.56	0.10	0.10	0.07	0.82	-0.01	0.50	0.12	0.98	0.09	0.65	0.43
67	4	7	7.56	0.10	0.10	0.07	0.83	-0.01	0.50	0.12	0.98	0.09	0.66	0.43
68	4	8	7.56	0.10	0.10	0.07	0.83	-0.01	0.50	0.11	0.98	0.09	0.66	0.44
69	4	9	7.56	0.10	0.10	0.07	0.84	-0.01	0.50	0.11	0.98	0.09	0.66	0.44
70	4	10	7.57	0.10	0.10	0.07	0.85	-0.01	0.50	0.11	0.98	0.09	0.66	0.44
71	4	11	7.57	0.10	0.10	0.07	0.86	0.00	0.50	0.10	0.98	0.09	0.66	0.44
72	4	12	7.58	0.11	0.10	0.07	0.86	0.00	0.50	0.10	0.98	0.09	0.66	0.45
73	4	13	7.58	0.11	0.10	0.07	0.87	0.00	0.50	0.10	0.98	0.09	0.66	0.45
74	4	14	7.59	0.11	0.10	0.07	0.88	0.00	0.50	0.10	0.98	0.09	0.67	0.45
75	4	15	7.60	0.11	0.10	0.07	0.88	0.00	0.50	0.09	0.98	0.09	0.67	0.45
76	4	16	7.60	0.11	0.10	0.07	0.89	0.00	0.50	0.09	0.98	0.09	0.67	0.46
77	4	17	7.61	0.11	0.09	0.07	0.90	0.00	0.50	0.09	0.98	0.09	0.67	0.46
78	4	18	7.62	0.11	0.09	0.07	0.90	0.00	0.50	0.09	0.98	0.09	0.67	0.46
79	4	19	7.63	0.11	0.09	0.07	0.91	0.00	0.50	0.09	0.98	0.09	0.67	0.46
80	4	20	7.64	0.11	0.09	0.07	0.91	0.00	0.50	0.08	0.98	0.09	0.67	0.47
81	5	1	7.63	0.09	0.09	0.07	0.73	-0.01	0.50	0.08	0.98	0.07	0.68	0.47
82	5	2	7.62	0.09	0.09	0.07	0.74	-0.01	0.50	0.08	0.98	0.07	0.68	0.47
83	5	3	7.61	0.09	0.09	0.07	0.74	-0.01	0.50	0.08	0.98	0.07	0.68	0.48
84	5	4	7.59	0.09	0.09	0.07	0.75	-0.01	0.50	0.08	0.98	0.07	0.68	0.48

QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** ALGAE DATA **

ELE ORD	RCH NUM	ELE NUM	CHLA UG/L	ALGY GRWTH 1/DAY	ALGY RESP 1/DAY	ALGY SETT FT/DA	A P/R RATIO *	NET P-R MG/L-D	NH3 PREF *	NH3-N FRACT N-UPTKE *	LIGHT EXTCO 1/FT	ALGAE GROWTH RATE ATTEN FACTORS LIGHT *	NITRGN *	PHSPRS *
85	5	5	7.58	0.09	0.09	0.07	0.76	-0.01	0.50	0.07	0.98	0.07	0.68	0.48
86	5	6	7.58	0.09	0.09	0.07	0.76	-0.01	0.50	0.07	0.98	0.07	0.68	0.48
87	5	7	7.57	0.09	0.09	0.07	0.77	-0.01	0.50	0.07	0.98	0.07	0.68	0.49
88	5	8	7.56	0.09	0.09	0.07	0.77	-0.01	0.50	0.07	0.98	0.07	0.69	0.49
89	5	9	7.56	0.09	0.09	0.07	0.78	-0.01	0.50	0.07	0.98	0.07	0.69	0.49
90	5	10	7.55	0.09	0.09	0.07	0.79	-0.01	0.50	0.07	0.98	0.07	0.69	0.50
91	5	11	7.55	0.09	0.09	0.07	0.79	-0.01	0.50	0.07	0.98	0.07	0.69	0.50
92	5	12	7.54	0.09	0.09	0.07	0.80	-0.01	0.50	0.07	0.98	0.07	0.69	0.50
93	5	13	7.54	0.09	0.09	0.07	0.80	-0.01	0.50	0.06	0.98	0.07	0.69	0.50
94	5	14	7.54	0.10	0.09	0.07	0.81	-0.01	0.50	0.06	0.98	0.07	0.69	0.51
95	5	15	7.54	0.10	0.09	0.07	0.81	-0.01	0.50	0.06	0.98	0.07	0.69	0.51
96	5	16	7.54	0.10	0.09	0.07	0.82	-0.01	0.50	0.06	0.98	0.07	0.70	0.51
97	5	17	7.54	0.10	0.09	0.07	0.82	-0.01	0.50	0.06	0.98	0.07	0.70	0.51
98	5	18	7.54	0.10	0.09	0.07	0.83	-0.01	0.50	0.06	0.98	0.07	0.70	0.51
99	5	19	7.54	0.10	0.09	0.07	0.83	-0.01	0.50	0.06	0.98	0.07	0.70	0.52
100	5	20	7.55	0.10	0.09	0.07	0.84	-0.01	0.50	0.06	0.98	0.07	0.70	0.52
101	6	1	7.55	0.10	0.09	0.07	0.85	0.00	0.50	0.06	0.98	0.07	0.70	0.52
102	6	2	7.56	0.10	0.09	0.07	0.85	0.00	0.50	0.06	0.98	0.07	0.70	0.52
103	6	3	7.57	0.10	0.09	0.07	0.86	0.00	0.50	0.06	0.98	0.07	0.70	0.53
104	6	4	7.57	0.10	0.09	0.07	0.86	0.00	0.50	0.06	0.98	0.07	0.70	0.53
105	6	5	7.58	0.10	0.09	0.07	0.87	0.00	0.50	0.06	0.98	0.07	0.71	0.53
106	6	6	7.59	0.10	0.09	0.07	0.87	0.00	0.50	0.06	0.98	0.07	0.71	0.53
107	6	7	7.60	0.10	0.09	0.07	0.87	0.00	0.50	0.05	0.98	0.07	0.71	0.54
108	6	8	7.61	0.10	0.09	0.07	0.88	0.00	0.50	0.05	0.98	0.07	0.71	0.54
109	6	9	7.63	0.10	0.09	0.07	0.88	0.00	0.50	0.05	0.98	0.07	0.71	0.54
110	6	10	7.64	0.10	0.09	0.07	0.89	0.00	0.50	0.05	0.98	0.07	0.71	0.54
111	6	11	7.65	0.10	0.09	0.07	0.89	0.00	0.50	0.05	0.98	0.07	0.71	0.54
112	6	12	7.67	0.10	0.09	0.07	0.90	0.00	0.50	0.05	0.98	0.07	0.71	0.55
113	6	13	7.68	0.10	0.09	0.07	0.90	0.00	0.50	0.05	0.99	0.07	0.71	0.55
114	6	14	7.70	0.10	0.09	0.07	0.91	0.00	0.50	0.05	0.99	0.07	0.71	0.55
115	6	15	7.72	0.11	0.09	0.07	0.91	0.00	0.50	0.05	0.99	0.07	0.71	0.55
116	6	16	7.79	0.11	0.09	0.07	0.93	0.00	0.50	0.06	0.99	0.07	0.72	0.56
117	6	17	7.81	0.11	0.09	0.07	0.93	0.00	0.50	0.06	0.99	0.07	0.72	0.56
118	6	18	7.83	0.11	0.09	0.07	0.94	0.00	0.50	0.06	0.99	0.07	0.72	0.57
119	6	19	7.85	0.11	0.09	0.07	0.94	0.00	0.50	0.06	0.99	0.07	0.72	0.57
120	6	20	7.88	0.11	0.09	0.07	0.94	0.00	0.50	0.05	0.99	0.07	0.72	0.57
121	7	1	7.90	0.11	0.09	0.07	0.96	0.00	0.50	0.05	0.99	0.07	0.72	0.57

122	7	2	7.93	0.11	0.09	0.07	0.96	0.00	0.50	0.05	0.99	0.07	0.72	0.57
123	7	3	7.96	0.11	0.09	0.07	0.96	0.00	0.50	0.05	0.99	0.07	0.72	0.57
124	7	4	7.93	0.11	0.09	0.07	0.97	0.00	0.50	0.05	0.99	0.07	0.72	0.58
125	7	5	6.00	0.12	0.10	0.07	0.92	0.00	0.50	0.06	0.97	0.07	0.71	0.55
126	7	6	6.01	0.12	0.10	0.07	0.92	0.00	0.50	0.06	0.97	0.07	0.71	0.55

***** STEADY STATE SIMULATION *****

** ALGAE DATA **

ELE ORD	RCH NUM	ELE NUM	CHLA UG/L	ALGY GRWTH 1/DAY	ALGY RESP 1/DAY	ALGY SETT FT/DA	A P/R RATIO *	NET P-R MG/L-D	NH3 PREF *	NH3-N FRACT N-UPTKE *	LIGHT EXTCO 1/FT	ALGAE GROWTH RATE ATTEN FACTORS LIGHT *	NITRGN *	PHSPRS *
127	7	7	6.03	0.12	0.10	0.07	0.93	0.00	0.50	0.06	0.97	0.07	0.71	0.55
128	7	8	6.05	0.12	0.10	0.07	0.93	0.00	0.50	0.06	0.97	0.07	0.71	0.56
129	7	9	6.07	0.12	0.10	0.07	0.94	0.00	0.50	0.06	0.97	0.07	0.71	0.56
130	7	10	6.09	0.12	0.10	0.07	0.94	0.00	0.50	0.06	0.97	0.07	0.71	0.56
131	7	11	6.11	0.12	0.10	0.07	0.95	0.00	0.50	0.06	0.97	0.07	0.71	0.56
132	7	12	6.13	0.12	0.10	0.07	0.95	0.00	0.50	0.06	0.97	0.07	0.71	0.56
133	7	13	6.15	0.12	0.10	0.07	0.96	0.00	0.50	0.06	0.97	0.07	0.71	0.57
134	7	14	6.18	0.12	0.10	0.07	0.96	0.00	0.50	0.06	0.97	0.07	0.71	0.57
135	7	15	6.20	0.12	0.10	0.07	0.97	0.00	0.50	0.06	0.97	0.07	0.72	0.57
136	7	16	6.23	0.12	0.10	0.07	0.97	0.00	0.50	0.06	0.97	0.07	0.72	0.57
137	7	17	6.25	0.12	0.10	0.07	0.97	0.00	0.50	0.06	0.97	0.07	0.72	0.57
138	7	18	6.28	0.12	0.10	0.07	0.98	0.00	0.50	0.05	0.97	0.07	0.72	0.58
139	7	19	6.31	0.12	0.10	0.07	0.98	0.00	0.50	0.05	0.97	0.07	0.72	0.58
140	7	20	6.33	0.12	0.09	0.07	0.99	0.00	0.50	0.05	0.97	0.07	0.72	0.58
141	8	1	6.36	0.12	0.09	0.07	1.00	0.00	0.50	0.05	0.97	0.07	0.72	0.58
142	8	2	6.40	0.12	0.09	0.07	1.00	0.00	0.50	0.05	0.97	0.07	0.72	0.58
143	8	3	6.43	0.12	0.09	0.07	1.01	0.00	0.50	0.05	0.97	0.07	0.72	0.59
144	8	4	6.46	0.12	0.09	0.07	1.01	0.00	0.50	0.05	0.97	0.07	0.73	0.59
145	8	5	6.50	0.12	0.09	0.07	1.02	0.00	0.50	0.05	0.98	0.07	0.73	0.59
146	8	6	6.54	0.12	0.09	0.07	1.02	0.00	0.50	0.05	0.98	0.07	0.73	0.59
147	8	7	6.57	0.12	0.09	0.07	1.03	0.00	0.50	0.05	0.98	0.07	0.73	0.59
148	8	8	6.61	0.12	0.09	0.07	1.03	0.00	0.50	0.05	0.98	0.07	0.73	0.59
149	8	9	6.65	0.12	0.09	0.07	1.03	0.00	0.50	0.05	0.98	0.07	0.73	0.60
150	8	10	6.69	0.12	0.09	0.07	1.04	0.00	0.50	0.05	0.98	0.07	0.73	0.60
151	8	11	6.73	0.12	0.09	0.07	1.04	0.00	0.50	0.05	0.98	0.07	0.73	0.60
152	8	12	6.77	0.12	0.09	0.07	1.04	0.00	0.50	0.05	0.98	0.07	0.73	0.60
153	8	13	6.81	0.12	0.09	0.07	1.05	0.00	0.50	0.05	0.98	0.07	0.73	0.60
154	8	14	6.85	0.12	0.09	0.07	1.05	0.00	0.50	0.05	0.98	0.07	0.73	0.60
155	8	15	6.90	0.12	0.09	0.07	1.06	0.00	0.50	0.05	0.98	0.07	0.74	0.61
156	8	16	6.94	0.12	0.09	0.07	1.06	0.00	0.50	0.05	0.98	0.07	0.74	0.61
157	8	17	6.99	0.13	0.09	0.07	1.07	0.00	0.50	0.05	0.98	0.07	0.74	0.61
158	8	18	7.19	0.14	0.09	0.07	1.17	0.01	0.50	0.11	0.98	0.07	0.75	0.66

159	8	19	7.25	0.14	0.09	0.07	1.17	0.01	0.50	0.10	0.98	0.07	0.75	0.67
160	8	20	7.32	0.14	0.09	0.07	1.17	0.01	0.50	0.10	0.98	0.07	0.75	0.67
161	9	1	7.39	0.14	0.09	0.07	1.19	0.01	0.50	0.09	0.98	0.07	0.75	0.67
162	9	2	7.45	0.14	0.09	0.07	1.19	0.01	0.50	0.09	0.98	0.07	0.75	0.67
163	9	3	7.51	0.14	0.09	0.07	1.19	0.01	0.50	0.09	0.98	0.07	0.75	0.67
164	9	4	7.41	0.15	0.09	0.07	1.29	0.01	0.50	0.10	0.98	0.07	0.79	0.68
165	9	5	7.49	0.15	0.09	0.07	1.29	0.01	0.50	0.10	0.98	0.07	0.79	0.69
166	9	6	7.58	0.15	0.09	0.07	1.29	0.01	0.50	0.09	0.98	0.07	0.79	0.69
167	9	7	7.66	0.15	0.09	0.07	1.29	0.01	0.50	0.09	0.98	0.07	0.79	0.69
168	9	8	7.74	0.15	0.09	0.07	1.30	0.01	0.50	0.08	0.99	0.07	0.79	0.69

STREAM QUALITY SIMULATION — OUTPUT PAGE NUMBER 29
QUAL-2E STREAM QUALITY ROUTING MODEL — Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** ALGAE DATA **

ELE ORD	RCH NUM	ELE NUM	CHLA UG/L	ALGY GRWTH 1/DAY	ALGY RESP 1/DAY	ALGY SETT FT/DA	A P/R RATIO *	NET P-R MG/L-D	NH3 PREF *	NH3-N FRACT N-UPTKE *	LIGHT EXTCO 1/FT	ALGAE GROWTH RATE ATTEN FACTORS LIGHT *	NITRGN *	PHSPRS *
169	9	9	7.83	0.15	0.09	0.07	1.30	0.01	0.50	0.08	0.99	0.07	0.79	0.69
170	9	10	7.91	0.15	0.09	0.07	1.30	0.01	0.50	0.08	0.99	0.07	0.79	0.69
171	9	11	8.00	0.15	0.09	0.07	1.30	0.01	0.50	0.07	0.99	0.07	0.79	0.69
172	9	12	8.09	0.15	0.09	0.07	1.30	0.01	0.50	0.07	0.99	0.07	0.79	0.69
173	9	13	8.18	0.15	0.09	0.07	1.30	0.01	0.50	0.07	0.99	0.07	0.79	0.69
174	9	14	8.27	0.15	0.09	0.07	1.30	0.01	0.50	0.07	0.99	0.07	0.80	0.69
175	9	15	8.36	0.15	0.09	0.07	1.31	0.01	0.50	0.06	0.99	0.07	0.80	0.70
176	9	16	8.46	0.15	0.09	0.07	1.31	0.01	0.50	0.06	0.99	0.07	0.80	0.70
177	9	17	8.55	0.15	0.09	0.07	1.31	0.01	0.50	0.06	0.99	0.07	0.80	0.70
178	9	18	8.65	0.15	0.09	0.07	1.31	0.01	0.50	0.06	0.99	0.07	0.80	0.70
179	9	19	8.74	0.15	0.09	0.07	1.31	0.01	0.50	0.06	0.99	0.07	0.80	0.70
180	9	20	8.84	0.15	0.09	0.07	1.31	0.01	0.50	0.05	0.99	0.07	0.80	0.70
181	10	1	8.94	0.15	0.09	0.07	1.34	0.01	0.50	0.05	1.00	0.07	0.80	0.70
182	10	2	9.04	0.15	0.09	0.07	1.34	0.01	0.50	0.05	1.00	0.07	0.80	0.70
183	10	3	9.14	0.15	0.09	0.07	1.34	0.01	0.50	0.05	1.00	0.07	0.80	0.70
184	10	4	9.24	0.15	0.09	0.07	1.34	0.01	0.50	0.05	1.00	0.07	0.80	0.70
185	10	5	9.34	0.15	0.09	0.07	1.35	0.01	0.50	0.05	1.00	0.07	0.80	0.70
186	10	6	9.44	0.15	0.09	0.07	1.35	0.01	0.50	0.05	1.00	0.07	0.80	0.71
187	10	7	9.55	0.15	0.09	0.07	1.35	0.01	0.50	0.05	1.00	0.07	0.80	0.71
188	10	8	9.65	0.15	0.09	0.07	1.35	0.01	0.50	0.05	1.00	0.07	0.80	0.71
189	10	9	9.76	0.15	0.09	0.07	1.35	0.01	0.50	0.05	1.00	0.07	0.80	0.71
190	10	10	9.87	0.15	0.09	0.07	1.35	0.01	0.50	0.04	1.00	0.07	0.80	0.71
191	10	11	9.98	0.15	0.09	0.07	1.35	0.01	0.50	0.04	1.00	0.07	0.80	0.71
192	10	12	10.09	0.15	0.09	0.07	1.35	0.01	0.50	0.04	1.00	0.07	0.80	0.71
193	10	13	10.20	0.15	0.09	0.07	1.35	0.01	0.50	0.04	1.01	0.07	0.80	0.71

194	10	14	10.31	0.15	0.09	0.07	1.36	0.01	0.50	0.04	1.01	0.07	0.80	0.71
195	10	15	10.43	0.15	0.09	0.07	1.36	0.02	0.50	0.04	1.01	0.07	0.81	0.71
196	10	16	10.55	0.15	0.09	0.07	1.36	0.02	0.50	0.04	1.01	0.07	0.81	0.71
197	10	17	10.66	0.15	0.09	0.07	1.36	0.02	0.50	0.04	1.01	0.07	0.81	0.71
198	10	18	10.78	0.15	0.09	0.07	1.36	0.02	0.50	0.04	1.01	0.07	0.81	0.71
199	10	19	10.90	0.15	0.09	0.07	1.36	0.02	0.50	0.04	1.01	0.07	0.81	0.72
200	10	20	11.02	0.15	0.09	0.07	1.36	0.02	0.50	0.04	1.01	0.07	0.81	0.72
201	11	1	11.15	0.16	0.09	0.07	1.38	0.02	0.50	0.04	1.01	0.07	0.81	0.72
202	11	2	11.27	0.16	0.09	0.07	1.38	0.02	0.50	0.04	1.01	0.07	0.81	0.72
203	11	3	11.39	0.16	0.09	0.07	1.38	0.02	0.50	0.04	1.01	0.07	0.81	0.72
204	11	4	11.51	0.16	0.09	0.07	1.38	0.02	0.50	0.04	1.02	0.07	0.81	0.72
205	11	5	11.63	0.16	0.09	0.07	1.38	0.02	0.50	0.04	1.02	0.07	0.81	0.72
206	11	6	11.75	0.16	0.09	0.07	1.38	0.02	0.50	0.04	1.02	0.07	0.81	0.72
207	11	7	11.88	0.16	0.09	0.07	1.38	0.02	0.50	0.04	1.02	0.07	0.81	0.72
208	11	8	12.01	0.16	0.09	0.07	1.38	0.02	0.50	0.04	1.02	0.07	0.81	0.72
209	11	9	12.13	0.16	0.09	0.07	1.38	0.02	0.50	0.04	1.02	0.07	0.81	0.72
210	11	10	12.26	0.16	0.09	0.07	1.38	0.02	0.50	0.04	1.02	0.07	0.81	0.72

***** STEADY STATE SIMULATION *****

** ALGAE DATA **

ELE ORD	RCH NUM	ELE NUM	CHLA UG/L	ALGY GRWTH 1/DAY	ALGY RESP 1/DAY	ALGY SETT FT/DA	A P/R RATIO *	NET P-R MG/L-D	NH3 PREF *	NH3-N FRACT N-UPTKE *	LIGHT EXTCO 1/FT	ALGAE GROWTH RATE ATTEN FACTORS LIGHT *	NITRGN *	PHSPRS *
211	11	11	12.40	0.16	0.09	0.07	1.38	0.02	0.50	0.04	1.02	0.07	0.81	0.72
212	11	12	12.53	0.16	0.09	0.07	1.38	0.02	0.50	0.04	1.02	0.07	0.81	0.72
213	11	13	12.66	0.16	0.09	0.07	1.38	0.02	0.50	0.04	1.02	0.07	0.81	0.72
214	11	14	12.80	0.16	0.09	0.07	1.38	0.02	0.50	0.04	1.02	0.07	0.81	0.72
215	11	15	12.93	0.16	0.09	0.07	1.38	0.02	0.50	0.04	1.03	0.07	0.81	0.72
216	11	16	13.07	0.16	0.09	0.07	1.38	0.02	0.50	0.04	1.03	0.07	0.81	0.73
217	11	17	13.21	0.16	0.09	0.07	1.38	0.02	0.50	0.04	1.03	0.07	0.81	0.73
218	11	18	13.35	0.16	0.09	0.07	1.38	0.02	0.50	0.04	1.03	0.07	0.81	0.73
219	11	19	13.49	0.16	0.09	0.07	1.38	0.02	0.50	0.04	1.03	0.07	0.81	0.73
220	11	20	13.64	0.16	0.09	0.07	1.38	0.02	0.50	0.04	1.03	0.07	0.81	0.73
221	12	1	13.72	0.12	0.09	0.07	1.09	0.01	0.50	0.04	1.03	0.06	0.81	0.73
222	12	2	13.80	0.12	0.09	0.07	1.09	0.01	0.50	0.03	1.03	0.06	0.81	0.73
223	12	3	13.89	0.12	0.09	0.07	1.10	0.01	0.50	0.03	1.03	0.06	0.81	0.73
224	12	4	13.98	0.12	0.09	0.07	1.10	0.01	0.50	0.03	1.03	0.06	0.82	0.73
225	12	5	14.07	0.12	0.09	0.07	1.10	0.01	0.50	0.03	1.03	0.06	0.82	0.73
226	12	6	14.16	0.12	0.09	0.07	1.10	0.01	0.50	0.03	1.03	0.06	0.82	0.73
227	12	7	14.26	0.12	0.09	0.07	1.10	0.01	0.50	0.03	1.04	0.06	0.82	0.73
228	12	8	14.35	0.12	0.09	0.07	1.10	0.01	0.50	0.03	1.04	0.06	0.82	0.73

229	12	9	14.44	0.12	0.09	0.07	1.10	0.01	0.50	0.03	1.04	0.06	0.82	0.73
230	12	10	14.54	0.12	0.09	0.07	1.10	0.01	0.50	0.03	1.04	0.06	0.82	0.73
231	12	11	14.63	0.12	0.09	0.07	1.10	0.01	0.50	0.03	1.04	0.06	0.82	0.73
232	12	12	14.73	0.12	0.09	0.07	1.10	0.01	0.50	0.03	1.04	0.06	0.82	0.73
233	12	13	14.82	0.12	0.09	0.07	1.10	0.01	0.50	0.03	1.04	0.06	0.82	0.74
234	12	14	14.92	0.12	0.09	0.07	1.10	0.01	0.50	0.03	1.04	0.06	0.82	0.74
235	12	15	15.02	0.12	0.09	0.07	1.10	0.01	0.50	0.03	1.04	0.06	0.82	0.74
236	12	16	15.12	0.12	0.09	0.07	1.10	0.01	0.50	0.03	1.04	0.06	0.82	0.74
237	12	17	15.22	0.12	0.09	0.07	1.10	0.01	0.50	0.03	1.04	0.06	0.82	0.74
238	12	18	15.32	0.12	0.09	0.07	1.10	0.01	0.50	0.03	1.04	0.06	0.82	0.74
239	12	19	15.42	0.12	0.09	0.07	1.10	0.01	0.50	0.03	1.04	0.06	0.82	0.74
240	12	20	15.52	0.12	0.09	0.07	1.10	0.01	0.50	0.03	1.04	0.06	0.82	0.74
241	13	1	15.59	0.11	0.09	0.07	0.99	0.00	0.50	0.03	0.97	0.05	0.82	0.74
242	13	2	15.66	0.11	0.09	0.07	0.99	0.00	0.50	0.03	0.97	0.05	0.82	0.74
243	13	3	15.73	0.11	0.09	0.07	0.99	0.00	0.50	0.03	0.97	0.05	0.82	0.74
244	13	4	15.81	0.11	0.09	0.07	0.99	0.00	0.50	0.03	0.97	0.05	0.82	0.74
245	13	5	15.88	0.11	0.09	0.07	0.99	0.00	0.50	0.03	0.97	0.05	0.82	0.74
246	13	6	15.96	0.11	0.09	0.07	0.99	0.00	0.50	0.03	0.97	0.05	0.82	0.74
247	13	7	16.03	0.11	0.09	0.07	0.99	0.00	0.50	0.03	0.97	0.05	0.82	0.74
248	13	8	16.11	0.11	0.09	0.07	0.99	0.00	0.50	0.03	0.97	0.05	0.82	0.74
249	13	9	16.19	0.11	0.09	0.07	0.99	0.00	0.50	0.03	0.97	0.05	0.82	0.74
250	13	10	16.26	0.11	0.09	0.07	0.99	0.00	0.50	0.03	0.97	0.05	0.82	0.74
251	13	11	16.34	0.11	0.09	0.07	0.99	0.00	0.50	0.03	0.97	0.05	0.82	0.75
252	13	12	16.42	0.11	0.09	0.07	0.99	0.00	0.50	0.03	0.97	0.05	0.82	0.75

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 31
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** ALGAE DATA **

ELE ORD	RCH NUM	ELE NUM	CHLA UG/L	ALGY GRWTH 1/DAY	ALGY RESP 1/DAY	ALGY SETT FT/DA	A P/R RATIO *	NET P-R MG/L-D	NH3 PREF *	NH3-N FRACT N-UPTKE *	LIGHT EXTCO 1/FT	ALGAE GROWTH RATE ATTEN FACTORS LIGHT *	NITRGN *	PHSPRS *
253	13	13	16.50	0.11	0.09	0.07	0.99	0.00	0.50	0.03	0.97	0.05	0.82	0.75
254	13	14	16.58	0.11	0.09	0.07	0.99	0.00	0.50	0.03	0.97	0.05	0.82	0.75
255	13	15	16.66	0.11	0.09	0.07	0.99	0.00	0.50	0.03	0.97	0.05	0.82	0.75
256	13	16	16.74	0.11	0.09	0.07	0.99	0.00	0.50	0.03	0.97	0.05	0.82	0.75
257	13	17	16.82	0.11	0.09	0.07	1.00	0.00	0.50	0.03	0.97	0.05	0.83	0.75
258	13	18	16.90	0.11	0.09	0.07	1.00	0.00	0.50	0.03	0.97	0.05	0.83	0.75
259	13	19	16.99	0.11	0.09	0.07	1.00	0.00	0.50	0.03	0.97	0.05	0.83	0.75
260	13	20	17.07	0.11	0.09	0.07	1.00	0.00	0.50	0.03	0.98	0.05	0.83	0.75
261	14	1	17.19	0.12	0.09	0.07	1.08	0.01	0.50	0.03	0.98	0.05	0.83	0.75
262	14	2	17.32	0.12	0.09	0.07	1.08	0.01	0.50	0.03	0.98	0.05	0.83	0.75
263	14	3	17.44	0.12	0.09	0.07	1.08	0.01	0.50	0.03	0.98	0.05	0.83	0.75

264	14	4	17.57	0.12	0.09	0.07	1.08	0.01	0.50	0.03	0.98	0.05	0.83	0.75
265	14	5	17.70	0.12	0.09	0.07	1.08	0.01	0.50	0.03	0.98	0.05	0.83	0.75
266	14	6	17.83	0.12	0.09	0.07	1.08	0.01	0.50	0.03	0.98	0.05	0.83	0.75
267	14	7	17.96	0.12	0.09	0.07	1.08	0.01	0.50	0.03	0.98	0.05	0.83	0.75
268	14	8	18.09	0.12	0.09	0.07	1.08	0.01	0.50	0.03	0.98	0.05	0.83	0.75
269	14	9	18.22	0.12	0.09	0.07	1.08	0.01	0.50	0.03	0.98	0.05	0.83	0.75
270	14	10	18.35	0.12	0.09	0.07	1.08	0.01	0.50	0.03	0.98	0.05	0.83	0.75
271	14	11	18.49	0.12	0.09	0.07	1.08	0.01	0.50	0.03	0.99	0.05	0.83	0.76
272	14	12	18.62	0.12	0.09	0.07	1.08	0.01	0.50	0.03	0.99	0.05	0.83	0.76
273	14	13	18.76	0.12	0.09	0.07	1.08	0.01	0.50	0.03	0.99	0.05	0.83	0.76
274	14	14	18.89	0.12	0.09	0.07	1.08	0.01	0.50	0.03	0.99	0.05	0.83	0.76
275	14	15	19.03	0.12	0.09	0.07	1.08	0.01	0.50	0.03	0.99	0.05	0.83	0.76
276	14	16	19.17	0.12	0.09	0.07	1.08	0.01	0.50	0.03	0.99	0.05	0.83	0.76
277	14	17	19.31	0.12	0.09	0.07	1.08	0.01	0.50	0.03	0.99	0.05	0.83	0.76
278	14	18	19.44	0.12	0.09	0.07	1.08	0.01	0.50	0.03	0.99	0.05	0.83	0.76
279	14	19	19.59	0.12	0.09	0.07	1.08	0.01	0.50	0.03	0.99	0.05	0.83	0.76
280	14	20	19.73	0.12	0.09	0.07	1.08	0.01	0.50	0.03	0.99	0.05	0.83	0.76
281	15	1	19.92	0.13	0.09	0.07	1.18	0.01	0.50	0.03	1.00	0.06	0.83	0.76
282	15	2	20.12	0.13	0.09	0.07	1.18	0.01	0.50	0.03	1.00	0.06	0.83	0.76
283	15	3	20.32	0.13	0.09	0.07	1.18	0.01	0.50	0.03	1.00	0.06	0.83	0.76
284	15	4	20.52	0.13	0.09	0.07	1.18	0.01	0.50	0.03	1.00	0.06	0.83	0.76
285	15	5	20.72	0.13	0.09	0.07	1.18	0.01	0.50	0.03	1.00	0.06	0.83	0.76
286	15	6	20.93	0.13	0.09	0.07	1.18	0.01	0.50	0.03	1.00	0.06	0.83	0.76
287	15	7	21.13	0.13	0.09	0.07	1.18	0.01	0.50	0.03	1.00	0.06	0.83	0.76
288	15	8	21.34	0.13	0.09	0.07	1.18	0.01	0.50	0.03	1.00	0.06	0.83	0.76
289	15	9	21.55	0.13	0.09	0.07	1.17	0.02	0.50	0.03	1.01	0.06	0.83	0.76
290	15	10	21.76	0.13	0.09	0.07	1.17	0.02	0.50	0.03	1.01	0.06	0.83	0.76
291	15	11	21.97	0.13	0.09	0.07	1.17	0.02	0.50	0.03	1.01	0.06	0.83	0.76
292	15	12	22.18	0.13	0.09	0.07	1.17	0.02	0.50	0.03	1.01	0.06	0.83	0.76
293	15	13	22.39	0.13	0.09	0.07	1.17	0.02	0.50	0.03	1.01	0.06	0.83	0.76
294	15	14	22.61	0.13	0.09	0.07	1.17	0.02	0.50	0.03	1.01	0.06	0.83	0.76

STREAM QUALITY SIMULATION — OUTPUT PAGE NUMBER 32
QUAL-2E STREAM QUALITY ROUTING MODEL — Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** ALGAE DATA **

ELE ORD	RCH NUM	ELE NUM	CHLA UG/L	ALGY GRWTH 1/DAY	ALGY RESP 1/DAY	ALGY SETT FT/DA	A P/R RATIO *	NET P-R MG/L-D	NH3 PREF *	NH3-N FRACT N-UPTKE *	LIGHT EXTCO 1/FT	ALGAE GROWTH RATE ATTEN FACTORS LIGHT *	NITRGN *	PHSPRS *
295	15	15	22.82	0.13	0.09	0.07	1.17	0.02	0.50	0.03	1.01	0.06	0.83	0.76
296	15	16	23.04	0.13	0.09	0.07	1.17	0.02	0.50	0.03	1.02	0.06	0.83	0.76
297	15	17	23.26	0.13	0.09	0.07	1.17	0.02	0.50	0.02	1.02	0.06	0.83	0.76
298	15	18	23.48	0.13	0.09	0.07	1.17	0.02	0.50	0.02	1.02	0.06	0.83	0.76
299	15	19	23.70	0.13	0.09	0.07	1.16	0.02	0.50	0.02	1.02	0.06	0.83	0.76
300	15	20	23.94	0.13	0.09	0.07	1.16	0.02	0.50	0.02	1.02	0.06	0.83	0.76

301	16	1	24.32	0.16	0.09	0.07	1.42	0.04	0.50	0.02	0.92	0.07	0.83	0.76
302	16	2	24.72	0.16	0.09	0.07	1.42	0.04	0.50	0.02	0.93	0.07	0.83	0.76
303	16	3	25.11	0.16	0.09	0.07	1.41	0.04	0.50	0.02	0.93	0.07	0.83	0.76
304	16	4	25.51	0.16	0.09	0.07	1.41	0.04	0.50	0.02	0.93	0.07	0.83	0.77
305	16	5	25.91	0.16	0.09	0.07	1.41	0.04	0.50	0.02	0.93	0.07	0.83	0.77
306	16	6	26.32	0.16	0.09	0.07	1.40	0.04	0.50	0.02	0.94	0.07	0.83	0.77
307	16	7	26.73	0.16	0.09	0.07	1.40	0.04	0.50	0.02	0.94	0.07	0.84	0.77
308	16	8	27.15	0.15	0.09	0.07	1.40	0.04	0.50	0.02	0.94	0.07	0.84	0.77
309	16	9	27.57	0.15	0.09	0.07	1.39	0.04	0.50	0.02	0.95	0.07	0.84	0.77
310	16	10	27.99	0.15	0.09	0.07	1.39	0.04	0.50	0.02	0.95	0.07	0.84	0.77
311	16	11	28.41	0.15	0.09	0.07	1.39	0.04	0.50	0.02	0.95	0.07	0.84	0.77
312	16	12	28.84	0.15	0.09	0.07	1.38	0.04	0.50	0.02	0.95	0.07	0.84	0.77
313	16	13	29.28	0.15	0.09	0.07	1.38	0.04	0.50	0.02	0.96	0.07	0.84	0.77
314	16	14	29.71	0.15	0.09	0.07	1.37	0.04	0.50	0.02	0.96	0.07	0.84	0.77
315	16	15	30.15	0.15	0.09	0.07	1.37	0.04	0.50	0.02	0.96	0.07	0.84	0.77
316	16	16	30.60	0.15	0.09	0.07	1.37	0.04	0.50	0.02	0.96	0.06	0.84	0.77
317	16	17	31.04	0.15	0.09	0.07	1.36	0.04	0.50	0.02	0.97	0.06	0.84	0.77
318	16	18	31.49	0.15	0.09	0.07	1.36	0.05	0.50	0.02	0.97	0.06	0.84	0.77
319	16	19	31.95	0.15	0.09	0.07	1.36	0.05	0.50	0.02	0.97	0.06	0.84	0.77
320	16	20	32.41	0.15	0.09	0.07	1.35	0.05	0.50	0.02	0.98	0.06	0.84	0.77
321	17	1	32.97	0.16	0.09	0.07	1.48	0.06	0.50	0.02	0.98	0.07	0.84	0.77
322	17	2	33.53	0.16	0.09	0.07	1.48	0.06	0.50	0.02	0.98	0.07	0.84	0.77
323	17	3	34.10	0.16	0.09	0.07	1.47	0.06	0.50	0.02	0.99	0.07	0.84	0.77
324	17	4	34.67	0.16	0.09	0.07	1.46	0.06	0.50	0.02	0.99	0.07	0.84	0.77
325	17	5	35.24	0.16	0.09	0.07	1.46	0.06	0.50	0.02	0.99	0.07	0.84	0.77
326	17	6	35.82	0.16	0.09	0.07	1.45	0.06	0.50	0.02	1.00	0.07	0.84	0.77
327	17	7	36.41	0.16	0.09	0.07	1.45	0.07	0.50	0.02	1.00	0.07	0.84	0.77
328	17	8	37.00	0.16	0.09	0.07	1.44	0.07	0.50	0.02	1.00	0.07	0.84	0.77
329	17	9	37.59	0.16	0.09	0.07	1.44	0.07	0.50	0.02	1.01	0.07	0.84	0.77
330	17	10	38.19	0.16	0.09	0.07	1.43	0.07	0.50	0.02	1.01	0.07	0.84	0.77
331	17	11	38.78	0.16	0.09	0.07	1.43	0.07	0.50	0.02	1.01	0.07	0.84	0.77
332	17	12	39.34	0.16	0.09	0.07	1.42	0.07	0.50	0.02	1.02	0.07	0.84	0.77

STREAM QUALITY SIMULATION — OUTPUT PAGE NUMBER 33
QUAL-2E STREAM QUALITY ROUTING MODEL — Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** DISSOLVED OXYGEN DATA **

ELE ORD	RCH NUM	ELE NUM	TEMP DEG-F	DO SAT MG/L	DO MG/L	DO DEF MG/L	DAM INPUT MG/L	NIT INHIB FACT	COMPONENTS OF DISSOLVED OXYGEN MASS BALANCE (MG/L-DAY) F-FNCTN INPUT	OXYGN REAIR	C-BOD	SOD	NET P-R	NH3-N	NO2-N
1	1	1	91.17	7.22	5.80	1.42	0.00	0.97	48.34	0.38	-0.27	0.00	-0.02	-0.05	-0.01

2	1	2	91.14	7.23	5.81	1.42	0.00	0.97	0.01	0.38	-0.27	0.00	-0.02	-0.05	-0.01
3	1	3	91.10	7.23	5.81	1.42	0.00	0.97	0.01	0.38	-0.26	0.00	-0.02	-0.05	-0.01
4	1	4	91.07	7.23	5.82	1.41	0.00	0.97	0.01	0.38	-0.26	0.00	-0.02	-0.05	-0.01
5	1	5	91.04	7.23	5.82	1.41	0.00	0.97	0.01	0.38	-0.26	0.00	-0.02	-0.05	-0.01
6	1	6	91.01	7.23	5.83	1.41	0.00	0.97	0.01	0.38	-0.26	0.00	-0.02	-0.05	-0.01
7	1	7	90.99	7.24	5.83	1.41	0.00	0.97	0.01	0.38	-0.26	0.00	-0.02	-0.05	-0.01
8	1	8	90.96	7.24	5.84	1.40	0.00	0.97	0.01	0.38	-0.25	0.00	-0.02	-0.05	-0.01
9	1	9	90.93	7.24	5.84	1.40	0.00	0.97	0.01	0.37	-0.25	0.00	-0.02	-0.05	-0.01
10	1	10	90.90	7.24	5.85	1.39	0.00	0.97	0.01	0.37	-0.25	0.00	-0.02	-0.05	-0.01
11	1	11	90.88	7.24	5.85	1.39	0.00	0.97	0.01	0.37	-0.25	0.00	-0.02	-0.05	-0.01
12	1	12	90.85	7.25	5.86	1.39	0.00	0.97	0.01	0.37	-0.25	0.00	-0.02	-0.05	-0.01
13	1	13	90.82	7.25	5.86	1.38	0.00	0.97	0.01	0.37	-0.24	0.00	-0.02	-0.05	-0.01
14	1	14	90.80	7.25	5.87	1.38	0.00	0.97	0.01	0.37	-0.24	0.00	-0.02	-0.05	-0.01
15	1	15	90.77	7.25	5.88	1.37	0.00	0.97	0.01	0.37	-0.24	0.00	-0.02	-0.05	-0.01
16	1	16	90.75	7.25	5.88	1.37	0.00	0.97	0.01	0.37	-0.24	0.00	-0.02	-0.05	-0.01
17	1	17	90.72	7.25	5.89	1.37	0.00	0.97	0.01	0.36	-0.24	0.00	-0.02	-0.05	-0.01
18	1	18	90.70	7.26	5.89	1.36	0.00	0.97	0.01	0.36	-0.23	0.00	-0.02	-0.05	-0.01
19	1	19	90.68	7.26	5.90	1.36	0.00	0.97	0.01	0.36	-0.23	0.00	-0.02	-0.05	-0.01
20	1	20	90.65	7.26	5.91	1.35	0.00	0.97	0.01	0.36	-0.23	0.00	-0.02	-0.05	-0.01
21	2	1	90.63	7.26	5.92	1.34	0.00	0.97	0.01	0.37	-0.23	0.00	-0.01	-0.05	-0.01
22	2	2	90.61	7.26	5.93	1.34	0.00	0.97	0.01	0.38	-0.23	0.00	-0.01	-0.05	-0.01
23	2	3	90.59	7.26	5.93	1.33	0.00	0.97	0.01	0.38	-0.22	0.00	-0.01	-0.05	-0.01
24	2	4	90.57	7.26	5.94	1.32	0.00	0.97	0.01	0.38	-0.22	0.00	-0.01	-0.05	-0.01
25	2	5	90.55	7.27	5.95	1.31	0.00	0.97	0.01	0.38	-0.22	0.00	-0.01	-0.05	-0.01
26	2	6	90.53	7.27	5.96	1.31	0.00	0.97	0.01	0.37	-0.22	0.00	-0.01	-0.05	-0.01
27	2	7	90.50	7.27	5.97	1.30	0.00	0.97	0.01	0.37	-0.22	0.00	-0.01	-0.05	-0.01
28	2	8	90.07	7.30	5.99	1.31	0.00	0.97	4.08	0.37	-0.23	0.00	-0.01	-0.04	-0.01
29	2	9	90.06	7.30	5.99	1.30	0.00	0.97	-0.70	0.37	-0.23	0.00	-0.01	-0.04	-0.01
30	2	10	90.08	7.30	6.00	1.30	0.00	0.97	0.17	0.37	-0.23	0.00	-0.01	-0.04	-0.01
31	2	11	90.20	7.29	6.01	1.28	0.00	0.97	-20.68	0.37	-0.23	0.00	-0.01	-0.04	-0.01
32	2	12	97.72	6.80	5.86	0.95	0.00	0.97	19.15	0.30	-0.30	0.00	-0.01	-0.06	-0.02
33	2	13	97.57	6.81	5.85	0.97	0.00	0.97	0.01	0.30	-0.29	0.00	-0.01	-0.06	-0.02
34	2	14	97.43	6.82	5.84	0.98	0.00	0.97	0.01	0.31	-0.29	0.00	-0.01	-0.06	-0.02
35	2	15	97.28	6.83	5.83	1.00	0.00	0.97	0.01	0.31	-0.29	0.00	-0.01	-0.06	-0.02
36	2	16	97.15	6.84	5.83	1.01	0.00	0.97	0.01	0.32	-0.28	0.00	-0.01	-0.06	-0.02
37	2	17	96.95	6.85	5.78	1.07	0.00	0.97	0.11	0.33	-0.28	0.00	0.00	-0.23	-0.02
38	2	18	96.82	6.86	5.77	1.09	0.00	0.97	0.01	0.34	-0.28	0.00	0.00	-0.22	-0.02
39	2	19	96.69	6.87	5.75	1.12	0.00	0.97	0.01	0.35	-0.28	0.00	0.00	-0.21	-0.02
40	2	20	96.56	6.88	5.73	1.14	0.00	0.97	0.01	0.35	-0.27	0.00	0.00	-0.20	-0.03
41	3	1	96.44	6.88	5.72	1.16	0.00	0.97	0.01	0.37	-0.27	0.00	0.00	-0.19	-0.03
42	3	2	96.32	6.89	5.71	1.18	0.00	0.97	0.01	0.39	-0.27	0.00	0.00	-0.18	-0.03

***** STEADY STATE SIMULATION *****

** DISSOLVED OXYGEN DATA **

									COMPONENTS OF DISSOLVED OXYGEN MASS BALANCE (MG/L-DAY)						
ELE ORD	RCH NUM	ELE NUM	TEMP DEG-F	DO SAT MG/L	DO MG/L	DO DEF MG/L	DAM INPUT MG/L	NIT INHIB FACT	F-FNCTN INPUT	OXYGN REAIR	C-BOD	SOD	NET P-R	NH3-N	NO2-N
43	3	3	96.20	6.90	5.70	1.19	0.00	0.97	0.01	0.40	-0.27	0.00	0.00	-0.18	-0.03
44	3	4	96.09	6.91	5.70	1.21	0.00	0.97	0.01	0.40	-0.27	0.00	0.00	-0.17	-0.03
45	3	5	95.96	6.91	5.68	1.23	0.00	0.97	0.04	0.41	-0.29	0.00	0.00	-0.16	-0.03
46	3	6	95.85	6.92	5.68	1.24	0.00	0.97	0.01	0.41	-0.29	0.00	0.00	-0.16	-0.03
47	3	7	95.74	6.93	5.67	1.26	0.00	0.97	0.01	0.42	-0.29	0.00	0.00	-0.15	-0.03
48	3	8	95.63	6.93	5.67	1.27	0.00	0.97	0.01	0.42	-0.29	0.00	0.00	-0.15	-0.03
49	3	9	95.53	6.94	5.66	1.28	0.00	0.97	0.01	0.42	-0.29	0.00	0.00	-0.14	-0.03
50	3	10	95.38	6.95	5.66	1.29	0.00	0.97	0.36	0.42	-0.29	0.00	0.00	-0.13	-0.03
51	3	11	95.28	6.96	5.66	1.30	0.00	0.97	0.01	0.43	-0.29	0.00	0.00	-0.13	-0.03
52	3	12	95.18	6.96	5.66	1.30	0.00	0.97	0.01	0.43	-0.29	0.00	0.00	-0.13	-0.04
53	3	13	95.08	6.97	5.66	1.31	0.00	0.97	0.01	0.43	-0.29	0.00	0.00	-0.12	-0.04
54	3	14	94.99	6.97	5.66	1.32	0.00	0.97	0.01	0.43	-0.29	0.00	0.00	-0.12	-0.04
55	3	15	94.90	6.98	5.66	1.33	0.00	0.97	0.01	0.43	-0.29	0.00	0.00	-0.11	-0.04
56	3	16	94.81	6.99	5.66	1.33	0.00	0.97	0.01	0.44	-0.29	0.00	0.00	-0.11	-0.04
57	3	17	94.72	6.99	5.66	1.34	0.00	0.97	0.01	0.44	-0.29	0.00	0.00	-0.11	-0.04
58	3	18	94.63	7.00	5.66	1.34	0.00	0.97	0.01	0.44	-0.29	0.00	0.00	-0.10	-0.04
59	3	19	94.54	7.00	5.66	1.35	0.00	0.97	0.01	0.44	-0.29	0.00	0.00	-0.10	-0.04
60	3	20	94.46	7.01	5.66	1.35	0.00	0.97	0.01	0.44	-0.29	0.00	0.00	-0.10	-0.03
61	4	1	94.37	7.01	5.65	1.36	0.00	0.97	0.01	0.39	-0.29	0.00	-0.01	-0.10	-0.03
62	4	2	94.28	7.02	5.64	1.38	0.00	0.97	0.01	0.34	-0.29	0.00	-0.01	-0.09	-0.03
63	4	3	94.19	7.03	5.63	1.40	0.00	0.97	0.01	0.34	-0.29	0.00	-0.01	-0.09	-0.03
64	4	4	94.10	7.03	5.62	1.41	0.00	0.97	0.01	0.35	-0.30	0.00	-0.01	-0.09	-0.03
65	4	5	94.01	7.04	5.61	1.43	0.00	0.97	0.01	0.35	-0.30	0.00	-0.01	-0.08	-0.03
66	4	6	93.93	7.04	5.60	1.44	0.00	0.97	0.01	0.35	-0.30	0.00	-0.01	-0.08	-0.03
67	4	7	93.85	7.05	5.59	1.46	0.00	0.97	0.01	0.36	-0.30	0.00	-0.01	-0.08	-0.03
68	4	8	93.77	7.05	5.58	1.47	0.00	0.96	0.01	0.36	-0.30	0.00	-0.01	-0.08	-0.03
69	4	9	93.69	7.06	5.58	1.48	0.00	0.96	0.01	0.36	-0.31	0.00	-0.01	-0.07	-0.03
70	4	10	93.61	7.06	5.57	1.50	0.00	0.96	0.01	0.36	-0.31	0.00	-0.01	-0.07	-0.03
71	4	11	93.53	7.07	5.56	1.51	0.00	0.96	0.01	0.37	-0.31	0.00	0.00	-0.07	-0.03
72	4	12	93.45	7.07	5.55	1.52	0.00	0.96	0.01	0.37	-0.31	0.00	0.00	-0.07	-0.03
73	4	13	93.38	7.08	5.55	1.53	0.00	0.96	0.01	0.37	-0.31	0.00	0.00	-0.07	-0.03
74	4	14	93.31	7.08	5.54	1.54	0.00	0.96	0.01	0.37	-0.32	0.00	0.00	-0.07	-0.03
75	4	15	93.24	7.09	5.54	1.55	0.00	0.96	0.01	0.38	-0.32	0.00	0.00	-0.06	-0.03
76	4	16	93.17	7.09	5.53	1.56	0.00	0.96	0.01	0.38	-0.32	0.00	0.00	-0.06	-0.03
77	4	17	93.10	7.10	5.53	1.57	0.00	0.96	0.01	0.38	-0.32	0.00	0.00	-0.06	-0.03
78	4	18	93.03	7.10	5.52	1.58	0.00	0.96	0.01	0.38	-0.32	0.00	0.00	-0.06	-0.03
79	4	19	92.96	7.11	5.52	1.59	0.00	0.96	0.01	0.38	-0.32	0.00	0.00	-0.06	-0.03
80	4	20	92.90	7.11	5.51	1.59	0.00	0.96	0.01	0.39	-0.33	0.00	0.00	-0.06	-0.03
81	5	1	92.83	7.11	5.50	1.61	0.00	0.96	0.00	0.35	-0.33	0.00	-0.01	-0.06	-0.03
82	5	2	92.77	7.12	5.48	1.63	0.00	0.96	0.00	0.31	-0.33	0.00	-0.01	-0.06	-0.02
83	5	3	92.70	7.12	5.47	1.66	0.00	0.96	0.00	0.32	-0.33	0.00	-0.01	-0.06	-0.02

84	5	4	92.64	7.13	5.45	1.68	0.00	0.96	0.00	0.32	-0.33	0.00	-0.01	-0.05	-0.02

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 35
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** DISSOLVED OXYGEN DATA **

								COMPONENTS OF DISSOLVED OXYGEN MASS BALANCE (MG/L-DAY)						
ELE ORD	RCH NUM	ELE NUM	TEMP DEG-F	DO SAT MG/L	DO MG/L	DO DEF MG/L	DAM INPUT MG/L	NIT INHIB FACT	F-FNCTN INPUT	OXYGN REAIR	C-BOD	SOD	NET P-R	NH3-N	NO2-N
85	5	5	92.58	7.13	5.43	1.70	0.00	0.96	0.00	0.32	-0.33	0.00	-0.01	-0.05	-0.02
86	5	6	92.52	7.13	5.41	1.72	0.00	0.96	0.00	0.33	-0.33	0.00	-0.01	-0.05	-0.02
87	5	7	92.46	7.14	5.40	1.74	0.00	0.96	0.00	0.33	-0.34	0.00	-0.01	-0.05	-0.02
88	5	8	92.40	7.14	5.38	1.76	0.00	0.96	0.00	0.33	-0.34	0.00	-0.01	-0.05	-0.02
89	5	9	92.34	7.15	5.37	1.78	0.00	0.96	0.00	0.34	-0.34	0.00	-0.01	-0.05	-0.02
90	5	10	92.29	7.15	5.35	1.79	0.00	0.96	0.00	0.34	-0.34	0.00	-0.01	-0.05	-0.02
91	5	11	92.23	7.15	5.34	1.81	0.00	0.96	0.00	0.34	-0.34	0.00	-0.01	-0.05	-0.02
92	5	12	92.18	7.16	5.33	1.83	0.00	0.96	0.00	0.35	-0.34	0.00	-0.01	-0.05	-0.02
93	5	13	92.13	7.16	5.32	1.84	0.00	0.96	0.00	0.35	-0.34	0.00	-0.01	-0.05	-0.02
94	5	14	92.08	7.16	5.30	1.86	0.00	0.96	0.00	0.35	-0.35	0.00	-0.01	-0.05	-0.02
95	5	15	92.03	7.17	5.29	1.87	0.00	0.96	0.00	0.35	-0.35	0.00	-0.01	-0.05	-0.02
96	5	16	91.98	7.17	5.28	1.89	0.00	0.96	0.00	0.36	-0.35	0.00	-0.01	-0.05	-0.02
97	5	17	91.93	7.17	5.27	1.90	0.00	0.96	0.00	0.36	-0.35	0.00	-0.01	-0.05	-0.02
98	5	18	91.88	7.18	5.26	1.92	0.00	0.96	0.00	0.36	-0.35	0.00	-0.01	-0.04	-0.02
99	5	19	91.83	7.18	5.25	1.93	0.00	0.96	0.00	0.36	-0.35	0.00	-0.01	-0.04	-0.02
100	5	20	91.79	7.18	5.24	1.94	0.00	0.96	0.00	0.37	-0.35	0.00	-0.01	-0.04	-0.02
101	6	1	91.74	7.19	5.23	1.95	0.00	0.96	0.00	0.37	-0.35	0.00	0.00	-0.04	-0.02
102	6	2	91.69	7.19	5.22	1.97	0.00	0.96	0.00	0.37	-0.35	0.00	0.00	-0.04	-0.02
103	6	3	91.65	7.19	5.21	1.98	0.00	0.96	0.00	0.37	-0.35	0.00	0.00	-0.04	-0.02
104	6	4	91.60	7.20	5.21	1.99	0.00	0.96	0.00	0.37	-0.35	0.00	0.00	-0.04	-0.02
105	6	5	91.55	7.20	5.20	2.00	0.00	0.96	0.00	0.38	-0.35	0.00	0.00	-0.04	-0.02
106	6	6	91.51	7.20	5.19	2.01	0.00	0.96	0.00	0.38	-0.35	0.00	0.00	-0.04	-0.02
107	6	7	91.47	7.20	5.18	2.02	0.00	0.96	0.00	0.38	-0.35	0.00	0.00	-0.04	-0.02
108	6	8	91.42	7.21	5.18	2.03	0.00	0.96	0.00	0.38	-0.35	0.00	0.00	-0.04	-0.02
109	6	9	91.38	7.21	5.17	2.04	0.00	0.96	0.00	0.38	-0.35	0.00	0.00	-0.04	-0.02
110	6	10	91.34	7.21	5.16	2.05	0.00	0.95	0.00	0.38	-0.35	0.00	0.00	-0.04	-0.02
111	6	11	91.30	7.22	5.16	2.06	0.00	0.95	0.00	0.39	-0.35	0.00	0.00	-0.04	-0.02
112	6	12	91.26	7.22	5.15	2.06	0.00	0.95	0.00	0.39	-0.35	0.00	0.00	-0.04	-0.02
113	6	13	91.23	7.22	5.15	2.07	0.00	0.95	0.00	0.39	-0.35	0.00	0.00	-0.04	-0.01
114	6	14	91.19	7.22	5.14	2.08	0.00	0.95	0.00	0.39	-0.35	0.00	0.00	-0.04	-0.01
115	6	15	91.15	7.23	5.14	2.09	0.00	0.95	0.00	0.39	-0.36	0.00	0.00	-0.04	-0.01
116	6	16	91.10	7.23	5.14	2.09	0.00	0.95	0.09	0.39	-0.36	0.00	0.00	-0.05	-0.01
117	6	17	91.06	7.23	5.13	2.10	0.00	0.95	0.00	0.39	-0.36	0.00	0.00	-0.04	-0.01
118	6	18	91.03	7.23	5.13	2.11	0.00	0.95	0.00	0.39	-0.36	0.00	0.00	-0.04	-0.01
119	6	19	91.00	7.24	5.12	2.12	0.00	0.95	0.00	0.40	-0.36	0.00	0.00	-0.04	-0.01
120	6	20	90.96	7.24	5.12	2.12	0.00	0.95	0.00	0.40	-0.36	0.00	0.00	-0.04	-0.01

121	7	1	90.93	7.24	5.11	2.13	0.00	0.95	0.00	0.40	-0.36	-0.03	0.00	-0.04	-0.01
122	7	2	90.90	7.24	5.10	2.14	0.00	0.95	0.00	0.41	-0.36	-0.03	0.00	-0.04	-0.01
123	7	3	90.87	7.24	5.09	2.15	0.00	0.95	0.00	0.41	-0.35	-0.03	0.00	-0.04	-0.01
124	7	4	90.94	7.24	5.08	2.16	0.00	0.95	-6.14	0.41	-0.35	-0.03	0.00	-0.04	-0.01
125	7	5	94.52	7.00	5.02	1.99	0.00	0.95	5.93	0.39	-0.40	-0.03	0.00	-0.05	-0.02
126	7	6	94.41	7.01	4.99	2.02	0.00	0.95	0.00	0.40	-0.40	-0.03	0.00	-0.05	-0.02

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 36
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** DISSOLVED OXYGEN DATA **

ELE ORD	RCH NUM	ELE NUM	TEMP DEG-F	DO SAT MG/L	DO MG/L	DO DEF MG/L	DAM INPUT MG/L	NIT INHIB FACT	COMPONENTS OF DISSOLVED OXYGEN MASS BALANCE (MG/L-DAY) F-FNCTN INPUT	OXYGN REAIR	C-BOD	SOD	NET P-R	NH3-N	NO2-N
127	7	7	94.30	7.02	4.98	2.04	0.00	0.95	0.00	0.40	-0.39	-0.03	0.00	-0.05	-0.02
128	7	8	94.19	7.03	4.96	2.07	0.00	0.95	0.00	0.41	-0.39	-0.03	0.00	-0.05	-0.02
129	7	9	94.08	7.03	4.94	2.09	0.00	0.95	0.00	0.41	-0.39	-0.03	0.00	-0.05	-0.02
130	7	10	93.98	7.04	4.93	2.11	0.00	0.95	0.00	0.42	-0.39	-0.03	0.00	-0.05	-0.02
131	7	11	93.88	7.05	4.91	2.13	0.00	0.95	0.00	0.42	-0.38	-0.03	0.00	-0.05	-0.02
132	7	12	93.78	7.05	4.90	2.15	0.00	0.95	0.00	0.42	-0.38	-0.03	0.00	-0.05	-0.02
133	7	13	93.68	7.06	4.89	2.17	0.00	0.95	0.00	0.43	-0.38	-0.03	0.00	-0.05	-0.02
134	7	14	93.59	7.06	4.88	2.18	0.00	0.95	0.00	0.43	-0.38	-0.03	0.00	-0.05	-0.02
135	7	15	93.49	7.07	4.87	2.20	0.00	0.95	0.00	0.43	-0.37	-0.03	0.00	-0.05	-0.02
136	7	16	93.40	7.08	4.86	2.21	0.00	0.95	0.00	0.43	-0.37	-0.03	0.00	-0.05	-0.02
137	7	17	93.31	7.08	4.86	2.22	0.00	0.95	0.00	0.43	-0.37	-0.03	0.00	-0.05	-0.02
138	7	18	93.23	7.09	4.85	2.24	0.00	0.95	0.00	0.44	-0.37	-0.03	0.00	-0.05	-0.02
139	7	19	93.14	7.09	4.85	2.25	0.00	0.95	0.00	0.44	-0.37	-0.03	0.00	-0.05	-0.02
140	7	20	93.06	7.10	4.84	2.26	0.00	0.95	0.00	0.44	-0.36	-0.03	0.00	-0.05	-0.02
141	8	1	92.98	7.10	4.84	2.26	0.00	0.95	0.00	0.44	-0.36	-0.03	0.00	-0.05	-0.02
142	8	2	92.89	7.11	4.84	2.27	0.00	0.95	0.00	0.44	-0.36	-0.03	0.00	-0.05	-0.02
143	8	3	92.81	7.12	4.84	2.28	0.00	0.95	0.00	0.45	-0.36	-0.03	0.00	-0.05	-0.02
144	8	4	92.73	7.12	4.84	2.28	0.00	0.95	0.00	0.45	-0.35	-0.03	0.00	-0.05	-0.02
145	8	5	92.65	7.13	4.84	2.29	0.00	0.95	0.00	0.45	-0.35	-0.03	0.00	-0.05	-0.02
146	8	6	92.57	7.13	4.84	2.29	0.00	0.95	0.00	0.45	-0.35	-0.03	0.00	-0.05	-0.02
147	8	7	92.50	7.14	4.84	2.30	0.00	0.95	0.00	0.45	-0.35	-0.03	0.00	-0.04	-0.02
148	8	8	92.42	7.14	4.84	2.30	0.00	0.95	0.00	0.45	-0.35	-0.03	0.00	-0.04	-0.02
149	8	9	92.35	7.15	4.84	2.30	0.00	0.95	0.00	0.45	-0.34	-0.03	0.00	-0.04	-0.02
150	8	10	92.28	7.15	4.85	2.30	0.00	0.95	0.00	0.45	-0.34	-0.03	0.00	-0.04	-0.02
151	8	11	92.21	7.15	4.85	2.30	0.00	0.95	0.00	0.45	-0.34	-0.03	0.00	-0.04	-0.02
152	8	12	92.15	7.16	4.86	2.30	0.00	0.95	0.00	0.45	-0.34	-0.03	0.00	-0.04	-0.02
153	8	13	92.08	7.16	4.86	2.30	0.00	0.95	0.00	0.45	-0.34	-0.03	0.00	-0.04	-0.01
154	8	14	92.02	7.17	4.86	2.30	0.00	0.95	0.00	0.45	-0.34	-0.03	0.00	-0.04	-0.01
155	8	15	91.96	7.17	4.87	2.30	0.00	0.95	0.00	0.45	-0.33	-0.03	0.00	-0.04	-0.01

156	8	16	91.90	7.18	4.87	2.30	0.00	0.95	0.00	0.44	-0.33	-0.03	0.00	-0.04	-0.01
157	8	17	91.83	7.18	4.88	2.30	0.00	0.95	0.00	0.44	-0.34	-0.03	0.00	-0.05	-0.01
158	8	18	91.57	7.20	4.78	2.42	0.00	0.94	0.24	0.47	-0.45	-0.03	0.01	-0.10	-0.02
159	8	19	91.52	7.20	4.75	2.45	0.00	0.94	0.00	0.47	-0.45	-0.03	0.01	-0.09	-0.02
160	8	20	91.47	7.20	4.73	2.47	0.00	0.94	0.00	0.48	-0.44	-0.03	0.01	-0.09	-0.02
161	9	1	91.42	7.21	4.71	2.49	0.00	0.94	0.00	0.48	-0.44	-0.03	0.01	-0.08	-0.02
162	9	2	91.38	7.21	4.70	2.51	0.00	0.94	0.00	0.49	-0.44	-0.03	0.01	-0.08	-0.02
163	9	3	91.33	7.21	4.68	2.53	0.00	0.94	0.00	0.49	-0.43	-0.03	0.01	-0.08	-0.02
164	9	4	91.17	7.22	4.60	2.63	0.00	0.94	0.25	0.51	-0.45	-0.03	0.01	-0.12	-0.02
165	9	5	91.13	7.23	4.58	2.65	0.00	0.94	0.00	0.51	-0.45	-0.03	0.01	-0.11	-0.02
166	9	6	91.09	7.23	4.56	2.67	0.00	0.94	0.00	0.51	-0.45	-0.03	0.01	-0.11	-0.02
167	9	7	91.06	7.23	4.55	2.69	0.00	0.93	0.00	0.52	-0.44	-0.03	0.01	-0.10	-0.02
168	9	8	91.02	7.23	4.53	2.70	0.00	0.93	0.00	0.52	-0.44	-0.03	0.01	-0.10	-0.02

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QUAL-2E STREAM QUALITY ROUTING MODEL — Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** DISSOLVED OXYGEN DATA **

ELE ORD	RCH NUM	ELE NUM	TEMP DEG-F	DO SAT MG/L	DO MG/L	DO DEF MG/L	DAM INPUT MG/L	NIT INHIB FACT	COMPONENTS OF DISSOLVED OXYGEN MASS BALANCE (MG/L-DAY) F-FNCTN INPUT	OXYGN REAIR	C-BOD	SOD	NET P-R	NH3-N	NO2-N
169	9	9	90.99	7.24	4.52	2.71	0.00	0.93	0.00	0.52	-0.44	-0.03	0.01	-0.09	-0.03
170	9	10	90.96	7.24	4.51	2.73	0.00	0.93	0.00	0.52	-0.44	-0.03	0.01	-0.09	-0.03
171	9	11	90.92	7.24	4.50	2.74	0.00	0.93	0.00	0.53	-0.43	-0.03	0.01	-0.09	-0.03
172	9	12	90.89	7.24	4.50	2.75	0.00	0.93	0.00	0.53	-0.43	-0.03	0.01	-0.08	-0.03
173	9	13	90.86	7.24	4.49	2.75	0.00	0.93	0.00	0.53	-0.43	-0.03	0.01	-0.08	-0.03
174	9	14	90.83	7.25	4.49	2.76	0.00	0.93	0.00	0.53	-0.43	-0.03	0.01	-0.08	-0.03
175	9	15	90.80	7.25	4.48	2.76	0.00	0.93	0.00	0.53	-0.43	-0.03	0.01	-0.07	-0.03
176	9	16	90.77	7.25	4.48	2.77	0.00	0.93	0.00	0.53	-0.42	-0.03	0.01	-0.07	-0.03
177	9	17	90.74	7.25	4.48	2.77	0.00	0.93	0.00	0.53	-0.42	-0.03	0.01	-0.07	-0.03
178	9	18	90.71	7.25	4.48	2.77	0.00	0.93	0.00	0.53	-0.42	-0.03	0.01	-0.07	-0.03
179	9	19	90.69	7.26	4.48	2.77	0.00	0.93	0.00	0.53	-0.42	-0.03	0.01	-0.07	-0.02
180	9	20	90.66	7.26	4.48	2.78	0.00	0.93	0.00	0.53	-0.42	-0.03	0.01	-0.06	-0.02
181	10	1	90.63	7.26	4.49	2.77	0.00	0.93	0.00	0.54	-0.41	-0.03	0.01	-0.06	-0.02
182	10	2	90.61	7.26	4.49	2.77	0.00	0.93	0.00	0.54	-0.41	-0.03	0.01	-0.06	-0.02
183	10	3	90.59	7.26	4.50	2.77	0.00	0.93	0.00	0.54	-0.41	-0.03	0.01	-0.06	-0.02
184	10	4	90.56	7.26	4.50	2.76	0.00	0.93	0.00	0.54	-0.41	-0.03	0.01	-0.06	-0.02
185	10	5	90.54	7.27	4.51	2.76	0.00	0.93	0.00	0.54	-0.41	-0.03	0.01	-0.06	-0.02
186	10	6	90.52	7.27	4.51	2.75	0.00	0.93	0.00	0.54	-0.41	-0.03	0.01	-0.06	-0.02
187	10	7	90.50	7.27	4.52	2.75	0.00	0.93	0.00	0.54	-0.40	-0.03	0.01	-0.06	-0.02
188	10	8	90.47	7.27	4.53	2.74	0.00	0.93	0.02	0.54	-0.40	-0.03	0.01	-0.06	-0.02
189	10	9	90.45	7.27	4.53	2.74	0.00	0.93	0.00	0.53	-0.40	-0.03	0.01	-0.06	-0.02
190	10	10	90.43	7.27	4.54	2.73	0.00	0.93	0.00	0.53	-0.40	-0.03	0.01	-0.05	-0.02

191	10	11	90.41	7.27	4.55	2.73	0.00	0.93	0.00	0.53	-0.40	-0.03	0.01	-0.05	-0.02
192	10	12	90.39	7.28	4.56	2.72	0.00	0.94	0.00	0.53	-0.40	-0.03	0.01	-0.05	-0.02
193	10	13	90.37	7.28	4.56	2.71	0.00	0.94	0.00	0.53	-0.40	-0.03	0.01	-0.05	-0.02
194	10	14	90.35	7.28	4.57	2.71	0.00	0.94	0.00	0.53	-0.40	-0.03	0.01	-0.05	-0.02
195	10	15	90.33	7.28	4.58	2.70	0.00	0.94	0.00	0.53	-0.39	-0.03	0.02	-0.05	-0.02
196	10	16	90.32	7.28	4.59	2.69	0.00	0.94	0.00	0.52	-0.39	-0.03	0.02	-0.05	-0.02
197	10	17	90.30	7.28	4.60	2.69	0.00	0.94	0.00	0.52	-0.39	-0.03	0.02	-0.05	-0.02
198	10	18	90.28	7.28	4.60	2.68	0.00	0.94	0.00	0.52	-0.39	-0.03	0.02	-0.05	-0.02
199	10	19	90.26	7.28	4.61	2.67	0.00	0.94	0.00	0.52	-0.39	-0.03	0.02	-0.05	-0.02
200	10	20	90.25	7.29	4.62	2.67	0.00	0.94	0.00	0.52	-0.39	-0.03	0.02	-0.05	-0.02
201	11	1	90.23	7.29	4.63	2.66	0.00	0.94	0.00	0.52	-0.39	-0.03	0.02	-0.05	-0.02
202	11	2	90.22	7.29	4.64	2.65	0.00	0.94	0.00	0.52	-0.39	-0.03	0.02	-0.05	-0.02
203	11	3	90.20	7.29	4.65	2.64	0.00	0.94	0.00	0.52	-0.38	-0.03	0.02	-0.05	-0.02
204	11	4	90.19	7.29	4.66	2.63	0.00	0.94	0.00	0.52	-0.38	-0.03	0.02	-0.05	-0.02
205	11	5	90.17	7.29	4.67	2.62	0.00	0.94	0.00	0.52	-0.38	-0.03	0.02	-0.05	-0.02
206	11	6	90.16	7.29	4.68	2.62	0.00	0.94	0.00	0.51	-0.38	-0.03	0.02	-0.05	-0.02
207	11	7	90.15	7.29	4.69	2.61	0.00	0.94	0.00	0.51	-0.38	-0.03	0.02	-0.05	-0.02
208	11	8	90.13	7.29	4.70	2.60	0.00	0.94	0.00	0.51	-0.38	-0.03	0.02	-0.05	-0.02
209	11	9	90.12	7.29	4.70	2.59	0.00	0.94	0.00	0.51	-0.38	-0.03	0.02	-0.05	-0.02
210	11	10	90.11	7.30	4.71	2.58	0.00	0.94	0.00	0.51	-0.38	-0.03	0.02	-0.05	-0.02

STREAM QUALITY SIMULATION — OUTPUT PAGE NUMBER 38
QUAL-2E STREAM QUALITY ROUTING MODEL — Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** DISSOLVED OXYGEN DATA **

ELE ORD	RCH NUM	ELE NUM	TEMP DEG-F	DO SAT MG/L	DO MG/L	DO DEF MG/L	DAM INPUT MG/L	NIT INHIB FACT	COMPONENTS OF DISSOLVED OXYGEN MASS BALANCE (MG/L-DAY) F-FNCTN INPUT	OXYGN REAIR	C-BOD	SOD	NET P-R	NH3-N	NO2-N
211	11	11	90.09	7.30	4.72	2.57	0.00	0.94	0.00	0.51	-0.37	-0.03	0.02	-0.05	-0.02
212	11	12	90.08	7.30	4.73	2.56	0.00	0.94	0.00	0.50	-0.37	-0.03	0.02	-0.05	-0.02
213	11	13	90.07	7.30	4.74	2.56	0.00	0.94	0.00	0.50	-0.37	-0.03	0.02	-0.05	-0.02
214	11	14	90.06	7.30	4.75	2.55	0.00	0.94	0.00	0.50	-0.37	-0.03	0.02	-0.05	-0.02
215	11	15	90.05	7.30	4.76	2.54	0.00	0.94	0.00	0.50	-0.37	-0.03	0.02	-0.05	-0.02
216	11	16	90.03	7.30	4.77	2.53	0.00	0.94	0.00	0.50	-0.37	-0.03	0.02	-0.05	-0.02
217	11	17	90.02	7.30	4.78	2.52	0.00	0.94	0.00	0.50	-0.37	-0.03	0.02	-0.05	-0.02
218	11	18	90.01	7.30	4.79	2.51	0.00	0.94	0.00	0.49	-0.37	-0.03	0.02	-0.05	-0.02
219	11	19	90.00	7.30	4.80	2.51	0.00	0.94	0.00	0.49	-0.36	-0.03	0.02	-0.05	-0.02
220	11	20	89.99	7.30	4.81	2.50	0.00	0.94	0.00	0.49	-0.36	-0.03	0.02	-0.05	-0.02
221	12	1	89.98	7.30	4.80	2.50	0.00	0.94	0.00	0.44	-0.36	-0.02	0.01	-0.05	-0.02
222	12	2	89.97	7.31	4.79	2.51	0.00	0.94	0.00	0.39	-0.36	-0.02	0.01	-0.05	-0.02
223	12	3	89.96	7.31	4.78	2.52	0.00	0.94	0.00	0.39	-0.36	-0.02	0.01	-0.05	-0.02
224	12	4	89.95	7.31	4.77	2.53	0.00	0.94	0.00	0.39	-0.36	-0.02	0.01	-0.04	-0.02
225	12	5	89.94	7.31	4.77	2.54	0.00	0.94	0.00	0.39	-0.36	-0.02	0.01	-0.04	-0.02

226	12	6	89.93	7.31	4.76	2.55	0.00	0.94	0.00	0.39	-0.35	-0.02	0.01	-0.04	-0.02
227	12	7	89.92	7.31	4.75	2.56	0.00	0.94	0.00	0.40	-0.35	-0.02	0.01	-0.04	-0.02
228	12	8	89.92	7.31	4.74	2.56	0.00	0.94	0.00	0.40	-0.35	-0.02	0.01	-0.04	-0.02
229	12	9	89.91	7.31	4.74	2.57	0.00	0.94	0.00	0.40	-0.35	-0.02	0.01	-0.04	-0.02
230	12	10	89.90	7.31	4.73	2.58	0.00	0.94	0.00	0.40	-0.35	-0.02	0.01	-0.04	-0.02
231	12	11	89.89	7.31	4.73	2.58	0.00	0.94	0.00	0.40	-0.35	-0.02	0.01	-0.04	-0.02
232	12	12	89.88	7.31	4.72	2.59	0.00	0.94	0.00	0.40	-0.34	-0.02	0.01	-0.04	-0.02
233	12	13	89.87	7.31	4.72	2.59	0.00	0.94	0.00	0.40	-0.34	-0.02	0.01	-0.04	-0.02
234	12	14	89.87	7.31	4.72	2.60	0.00	0.94	0.00	0.40	-0.34	-0.02	0.01	-0.04	-0.02
235	12	15	89.86	7.31	4.71	2.60	0.00	0.94	0.00	0.40	-0.34	-0.02	0.01	-0.04	-0.02
236	12	16	89.85	7.31	4.71	2.60	0.00	0.94	0.00	0.40	-0.34	-0.02	0.01	-0.04	-0.02
237	12	17	89.84	7.31	4.71	2.60	0.00	0.94	0.00	0.40	-0.34	-0.02	0.01	-0.04	-0.02
238	12	18	89.83	7.31	4.71	2.61	0.00	0.94	0.00	0.40	-0.34	-0.02	0.01	-0.04	-0.01
239	12	19	89.83	7.31	4.71	2.61	0.00	0.94	0.00	0.40	-0.33	-0.02	0.01	-0.04	-0.01
240	12	20	89.82	7.32	4.71	2.61	0.00	0.94	0.00	0.40	-0.33	-0.02	0.01	-0.04	-0.01
241	13	1	89.81	7.32	4.70	2.62	0.00	0.94	0.00	0.37	-0.33	-0.02	0.00	-0.04	-0.01
242	13	2	89.81	7.32	4.68	2.64	0.00	0.94	0.00	0.33	-0.33	-0.02	0.00	-0.04	-0.01
243	13	3	89.80	7.32	4.66	2.65	0.00	0.94	0.00	0.34	-0.33	-0.02	0.00	-0.04	-0.01
244	13	4	89.79	7.32	4.65	2.67	0.00	0.94	0.00	0.34	-0.32	-0.02	0.00	-0.04	-0.01
245	13	5	89.79	7.32	4.63	2.68	0.00	0.94	0.00	0.34	-0.32	-0.02	0.00	-0.04	-0.01
246	13	6	89.78	7.32	4.62	2.70	0.00	0.94	0.00	0.34	-0.32	-0.02	0.00	-0.04	-0.01
247	13	7	89.77	7.32	4.61	2.71	0.00	0.94	0.00	0.34	-0.32	-0.02	0.00	-0.04	-0.01
248	13	8	89.77	7.32	4.60	2.72	0.00	0.94	0.00	0.34	-0.32	-0.02	0.00	-0.04	-0.01
249	13	9	89.76	7.32	4.59	2.73	0.00	0.94	0.00	0.35	-0.31	-0.02	0.00	-0.04	-0.01
250	13	10	89.76	7.32	4.58	2.74	0.00	0.94	0.00	0.35	-0.31	-0.02	0.00	-0.04	-0.01
251	13	11	89.75	7.32	4.57	2.75	0.00	0.94	0.00	0.35	-0.31	-0.02	0.00	-0.04	-0.01
252	13	12	89.74	7.32	4.56	2.76	0.00	0.94	0.00	0.35	-0.31	-0.02	0.00	-0.04	-0.01

***** STEADY STATE SIMULATION *****

** DISSOLVED OXYGEN DATA **

									COMPONENTS OF DISSOLVED OXYGEN MASS BALANCE (MG/L-DAY)						
ELE ORD	RCH NUM	ELE NUM	TEMP DEG-F	DO SAT MG/L	DO MG/L	DO DEF MG/L	DAM INPUT MG/L	NIT INHIB FACT	F-FNCTN INPUT	OXYGN REAIR	C-BOD	SOD	NET P-R	NH3-N	NO2-N
253	13	13	89.74	7.32	4.55	2.77	0.00	0.93	0.00	0.35	-0.31	-0.02	0.00	-0.04	-0.01
254	13	14	89.73	7.32	4.54	2.78	0.00	0.93	0.00	0.35	-0.31	-0.02	0.00	-0.04	-0.01
255	13	15	89.73	7.32	4.54	2.78	0.00	0.93	0.00	0.35	-0.30	-0.02	0.00	-0.04	-0.01
256	13	16	89.72	7.32	4.53	2.79	0.00	0.93	0.00	0.35	-0.30	-0.02	0.00	-0.04	-0.01
257	13	17	89.72	7.32	4.53	2.79	0.00	0.93	0.00	0.35	-0.30	-0.02	0.00	-0.04	-0.01
258	13	18	89.71	7.32	4.52	2.80	0.00	0.93	0.00	0.35	-0.30	-0.02	0.00	-0.04	-0.01
259	13	19	89.71	7.32	4.52	2.80	0.00	0.93	0.00	0.35	-0.30	-0.02	0.00	-0.04	-0.01
260	13	20	89.70	7.32	4.52	2.81	0.00	0.93	0.00	0.36	-0.30	-0.02	0.00	-0.04	-0.01

261	14	1	89.70	7.32	4.52	2.81	0.00	0.93	0.00	0.37	-0.29	-0.02	0.01	-0.04	-0.01
262	14	2	89.69	7.32	4.52	2.80	0.00	0.93	0.00	0.38	-0.29	-0.02	0.01	-0.04	-0.01
263	14	3	89.69	7.32	4.53	2.80	0.00	0.93	0.00	0.38	-0.29	-0.02	0.01	-0.04	-0.01
264	14	4	89.68	7.33	4.53	2.79	0.00	0.93	0.00	0.38	-0.29	-0.02	0.01	-0.04	-0.01
265	14	5	89.68	7.33	4.54	2.79	0.00	0.93	0.00	0.38	-0.29	-0.02	0.01	-0.04	-0.01
266	14	6	89.67	7.33	4.55	2.78	0.00	0.93	0.00	0.38	-0.28	-0.02	0.01	-0.04	-0.01
267	14	7	89.67	7.33	4.55	2.77	0.00	0.93	0.00	0.38	-0.28	-0.02	0.01	-0.04	-0.01
268	14	8	89.66	7.33	4.56	2.77	0.00	0.94	0.00	0.38	-0.28	-0.02	0.01	-0.04	-0.01
269	14	9	89.66	7.33	4.57	2.76	0.00	0.94	0.00	0.38	-0.28	-0.02	0.01	-0.04	-0.01
270	14	10	89.65	7.33	4.57	2.75	0.00	0.94	0.00	0.38	-0.28	-0.02	0.01	-0.04	-0.01
271	14	11	89.65	7.33	4.58	2.75	0.00	0.94	0.00	0.38	-0.28	-0.02	0.01	-0.04	-0.01
272	14	12	89.64	7.33	4.59	2.74	0.00	0.94	0.00	0.38	-0.27	-0.02	0.01	-0.04	-0.01
273	14	13	89.64	7.33	4.60	2.73	0.00	0.94	0.00	0.37	-0.27	-0.02	0.01	-0.04	-0.01
274	14	14	89.63	7.33	4.61	2.72	0.00	0.94	0.00	0.37	-0.27	-0.02	0.01	-0.04	-0.01
275	14	15	89.63	7.33	4.61	2.72	0.00	0.94	0.00	0.37	-0.27	-0.02	0.01	-0.04	-0.01
276	14	16	89.62	7.33	4.62	2.71	0.00	0.94	0.00	0.37	-0.27	-0.02	0.01	-0.04	-0.01
277	14	17	89.62	7.33	4.63	2.70	0.00	0.94	0.00	0.37	-0.27	-0.02	0.01	-0.04	-0.01
278	14	18	89.62	7.33	4.64	2.69	0.00	0.94	0.00	0.37	-0.27	-0.02	0.01	-0.04	-0.01
279	14	19	89.61	7.33	4.65	2.68	0.00	0.94	0.00	0.37	-0.26	-0.02	0.01	-0.04	-0.01
280	14	20	89.61	7.33	4.66	2.67	0.00	0.94	0.00	0.37	-0.26	-0.02	0.01	-0.04	-0.01
281	15	1	89.60	7.33	4.67	2.66	0.00	0.94	0.00	0.38	-0.26	-0.02	0.01	-0.04	-0.01
282	15	2	89.60	7.33	4.69	2.64	0.00	0.94	0.00	0.40	-0.26	-0.02	0.01	-0.04	-0.01
283	15	3	89.60	7.33	4.71	2.62	0.00	0.94	0.00	0.39	-0.26	-0.02	0.01	-0.04	-0.01
284	15	4	89.59	7.33	4.73	2.61	0.00	0.94	0.00	0.39	-0.26	-0.02	0.01	-0.04	-0.01
285	15	5	89.59	7.33	4.74	2.59	0.00	0.94	0.00	0.39	-0.25	-0.02	0.01	-0.04	-0.01
286	15	6	89.58	7.33	4.76	2.57	0.00	0.94	0.00	0.39	-0.25	-0.02	0.01	-0.04	-0.01
287	15	7	89.58	7.33	4.78	2.55	0.00	0.94	0.00	0.38	-0.25	-0.02	0.01	-0.04	-0.01
288	15	8	89.58	7.33	4.80	2.54	0.00	0.94	0.00	0.38	-0.25	-0.02	0.01	-0.04	-0.01
289	15	9	89.57	7.33	4.81	2.52	0.00	0.94	0.00	0.38	-0.25	-0.02	0.02	-0.04	-0.01
290	15	10	89.57	7.33	4.83	2.50	0.00	0.94	0.00	0.38	-0.25	-0.02	0.02	-0.04	-0.01
291	15	11	89.57	7.33	4.85	2.49	0.00	0.95	0.00	0.37	-0.24	-0.02	0.02	-0.04	-0.01
292	15	12	89.56	7.33	4.86	2.47	0.00	0.95	0.00	0.37	-0.24	-0.02	0.02	-0.04	-0.01
293	15	13	89.56	7.33	4.88	2.45	0.00	0.95	0.00	0.37	-0.24	-0.02	0.02	-0.04	-0.01
294	15	14	89.55	7.33	4.90	2.44	0.00	0.95	0.00	0.37	-0.24	-0.02	0.02	-0.04	-0.01

***** STEADY STATE SIMULATION *****

** DISSOLVED OXYGEN DATA **

ELE ORD	RCH NUM	ELE NUM	TEMP DEG-F	DO SAT MG/L	DO MG/L	DO DEF MG/L	DAM INPUT MG/L	NIT INHIB FACT	COMPONENTS OF DISSOLVED OXYGEN MASS BALANCE (MG/L-DAY) F-FNCTN INPUT	OXYGN REAIR	C-BOD	SOD	NET P-R	NH3-N	NO2-N
295	15	15	89.55	7.33	4.91	2.42	0.00	0.95	0.00	0.36	-0.24	-0.02	0.02	-0.04	-0.01
296	15	16	89.55	7.33	4.93	2.41	0.00	0.95	0.00	0.36	-0.24	-0.02	0.02	-0.04	-0.01
297	15	17	89.55	7.33	4.94	2.39	0.00	0.95	0.00	0.36	-0.24	-0.02	0.02	-0.04	-0.01

298	15	18	89.54	7.33	4.96	2.38	0.00	0.95	0.00	0.36	-0.24	-0.02	0.02	-0.04	-0.01
299	15	19	89.54	7.33	4.97	2.36	0.00	0.95	0.00	0.35	-0.23	-0.02	0.02	-0.04	-0.01
300	15	20	89.54	7.33	4.99	2.35	0.00	0.95	0.00	0.35	-0.23	-0.02	0.02	-0.04	-0.01
301	16	1	89.53	7.33	5.01	2.32	0.00	0.95	0.00	0.37	-0.23	-0.02	0.04	-0.04	-0.01
302	16	2	89.53	7.34	5.04	2.29	0.00	0.95	0.00	0.38	-0.23	-0.02	0.04	-0.04	-0.01
303	16	3	89.53	7.34	5.07	2.27	0.00	0.95	0.00	0.38	-0.23	-0.02	0.04	-0.04	-0.01
304	16	4	89.52	7.34	5.09	2.24	0.00	0.95	0.00	0.37	-0.23	-0.02	0.04	-0.04	-0.01
305	16	5	89.52	7.34	5.12	2.22	0.00	0.95	0.00	0.37	-0.23	-0.02	0.04	-0.04	-0.01
306	16	6	89.52	7.34	5.15	2.19	0.00	0.95	0.00	0.36	-0.22	-0.02	0.04	-0.04	-0.01
307	16	7	89.52	7.34	5.17	2.17	0.00	0.96	0.00	0.36	-0.22	-0.02	0.04	-0.04	-0.01
308	16	8	89.51	7.34	5.20	2.14	0.00	0.96	0.00	0.36	-0.22	-0.02	0.04	-0.04	-0.01
309	16	9	89.51	7.34	5.22	2.12	0.00	0.96	0.00	0.35	-0.22	-0.02	0.04	-0.04	-0.01
310	16	10	89.51	7.34	5.24	2.09	0.00	0.96	0.00	0.35	-0.22	-0.02	0.04	-0.04	-0.01
311	16	11	89.50	7.34	5.26	2.07	0.00	0.96	0.00	0.34	-0.22	-0.02	0.04	-0.04	-0.01
312	16	12	89.50	7.34	5.29	2.05	0.00	0.96	0.00	0.34	-0.22	-0.02	0.04	-0.04	-0.01
313	16	13	89.50	7.34	5.31	2.03	0.00	0.96	0.00	0.34	-0.21	-0.02	0.04	-0.04	-0.01
314	16	14	89.50	7.34	5.33	2.01	0.00	0.96	0.00	0.33	-0.21	-0.02	0.04	-0.04	-0.01
315	16	15	89.49	7.34	5.35	1.99	0.00	0.96	0.00	0.33	-0.21	-0.02	0.04	-0.04	-0.01
316	16	16	89.49	7.34	5.37	1.97	0.00	0.96	0.00	0.33	-0.21	-0.02	0.04	-0.04	-0.01
317	16	17	89.49	7.34	5.39	1.95	0.00	0.96	0.00	0.32	-0.21	-0.02	0.04	-0.04	-0.01
318	16	18	89.49	7.34	5.41	1.93	0.00	0.96	0.00	0.32	-0.21	-0.02	0.05	-0.04	-0.01
319	16	19	89.49	7.34	5.43	1.91	0.00	0.96	0.00	0.32	-0.21	-0.02	0.05	-0.04	-0.01
320	16	20	89.48	7.34	5.45	1.89	0.00	0.96	0.00	0.31	-0.21	-0.02	0.05	-0.03	-0.01
321	17	1	89.48	7.34	5.47	1.86	0.00	0.96	0.01	0.32	-0.21	-0.03	0.06	-0.03	-0.01
322	17	2	89.48	7.34	5.50	1.84	0.00	0.96	0.01	0.33	-0.21	-0.03	0.06	-0.03	-0.01
323	17	3	89.48	7.34	5.53	1.81	0.00	0.96	0.01	0.33	-0.21	-0.03	0.06	-0.03	-0.01
324	17	4	89.47	7.34	5.55	1.79	0.00	0.96	0.01	0.33	-0.21	-0.03	0.06	-0.03	-0.01
325	17	5	89.47	7.34	5.57	1.76	0.00	0.96	0.01	0.32	-0.21	-0.03	0.06	-0.03	-0.01
326	17	6	89.47	7.34	5.60	1.74	0.00	0.97	0.01	0.32	-0.21	-0.03	0.06	-0.03	-0.01
327	17	7	89.47	7.34	5.62	1.72	0.00	0.97	0.01	0.31	-0.21	-0.03	0.07	-0.03	-0.01
328	17	8	89.47	7.34	5.64	1.70	0.00	0.97	0.01	0.31	-0.21	-0.03	0.07	-0.03	-0.01
329	17	9	89.46	7.34	5.66	1.68	0.00	0.97	0.01	0.30	-0.21	-0.03	0.07	-0.03	-0.01
330	17	10	89.46	7.34	5.68	1.66	0.00	0.97	0.01	0.30	-0.20	-0.03	0.07	-0.03	-0.01
331	17	11	89.46	7.34	5.70	1.64	0.00	0.97	0.01	0.30	-0.20	-0.03	0.07	-0.03	-0.01
332	17	12	89.46	7.34	5.72	1.62	0.00	0.97	0.01	0.29	-0.20	-0.03	0.07	-0.03	-0.01

APPENDIX L - NOVEMBER PROJECTION OUTPUT

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                                    * * * QUAL-2E  STREAM QUALITY ROUTING MODEL * * *
                                                Version 3.21  -  Feb. 1995

 $$$ (PROBLEM TITLES) $$$

CARD TYPE                              QUAL-2E PROGRAM TITLES
TITLE01              LOWER OUACHITA RIVER NOVEMBER PROJECTION - STEADY STATE WQ
TITLE02              RUN WITHOUT LOAD REDUCTION
TITLE03  NO          CONSERVATIVE MINERAL I
TITLE04  NO          CONSERVATIVE MINERAL II
TITLE05  NO          CONSERVATIVE MINERAL III
TITLE06  YES         TEMPERATURE
TITLE07  YES         BIOCHEMICAL OXYGEN DEMAND
TITLE08  YES         ALGAE AS CHL-A IN UG/L
TITLE09  YES         PHOSPHORUS CYCLE AS P IN MG/L
TITLE10                (ORGANIC-P; DISSOLVED-P)
TITLE11  YES         NITROGEN CYCLE AS N IN MG/L
TITLE12                (ORGANIC-N; AMMONIA-N; NITRITE-N;' NITRATE-N)
TITLE13  YES         DISSOLVED OXYGEN IN MG/L
TITLE14  NO          FECAL COLIFORM IN NO./100 ML
TITLE15  NO          ARBITRARY NON-CONSERVATIVE
ENDTITLE

 $$$ DATA TYPE 1 (CONTROL DATA) $$$

CARD TYPE                                      CARD TYPE
LIST DATA INPUT             0.00000                                      0.00000
WRITE OPTIONAL SUMMARY      0.00000                                      0.00000
NO FLOW AUGMENTATION        0.00000                                      0.00000
STEADY STATE                0.00000                                      0.00000
NO TRAP CHANNELS            0.00000                                      0.00000
NO PRINT LCD/SOLAR DATA     0.00000                                      0.00000
NO PLOT DO AND BOD DATA     0.00000                                      0.00000
FIXED DNSTM CONC (YES=1)=   0.00000          5D-ULT BOD CONV K COEF  =   0.23000
INPUT METRIC            =   0.00000          OUTPUT METRIC           =   0.00000
NUMBER OF REACHES       =  17.00000          NUMBER OF JUNCTIONS     =   0.00000
NUM OF HEADWATERS       =   1.00000          NUMBER OF POINT LOADS   =  17.00000
TIME STEP (HOURS)       =   1.00000          LNTH. COMP. ELEMENT (DX)=   0.25000
MAXIMUM ROUTE TIME (HRS)= 450.00000          TIME INC. FOR RPT2 (HRS)=   3.00000
LATITUDE OF BASIN (DEG) =  32.50000          LONGITUDE OF BASIN (DEG)=  92.00000
STANDARD MARIDIAN (DEG) =  90.00000          DAY OF YEAR START TIME  = 319.00000
EVAP. COEF.,(AE)        =   0.00022          EVAP. COEF.,(BE)        =   0.00011
ELEV. OF BASIN (ELEV)   =  54.00000          DUST ATTENUATION COEF.  =   0.13000
ENDATA1                     0.00000                                      0.00000

 $$$ DATA TYPE 1A (ALGAE PRODUCTION AND NITROGEN OXIDATION CONSTANTS) $$$

CARD TYPE                                            CARD TYPE
O UPTAKE BY NH3 OXID(MG O/MG N)=    3.4300           O UPTAKE BY NO2 OXID(MG O/MG N)=    1.1400
O PROD  BY ALGAE (MG O/MG A)   =    1.8000           O UPTAKE BY ALGAE (MG O/MG A)  =    2.3000
N CONTENT OF ALGAE (MG N/MG A) =    0.0900           P CONTENT OF ALGAE (MG O/MG A) =    0.0150
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ALG MAX SPEC GROWTH RATE(1/DAY)=    2.1000          ALGAE RESPIRATION RATE (1/DAY) =    0.0500
N HALF SATURATION CONST (MG/L) =    0.2000          P HALF SATURATION CONST (MG/L) =    0.0400
LIN ALG SHADE CO (1/FT-UGCHA/L=)    0.0027          NLIN SHADE(1/FT-(UGCHA/L)**2/3)=    0.0165
LIGHT FUNCTION OPTION (LFNOPT) =    1.0000          LIGHT SAT'N COEF (BTU/FT2-MIN) =    0.0660
DAILY AVERAGING OPTION (LAVOPT)=    3.0000          LIGHT AVERAGING FACTOR (AFACT) =    0.9200
NUMBER OF DAYLIGHT HOURS (DLH) =   14.0000          TOTAL DAILY SOLR RAD (BTU/FT-2)= 1300.0000
ALGY GROWTH CALC OPTION(LGROPT)=    1.0000          ALGAL PREF FOR NH3-N (PREFN)   =    0.5000
ALG/TEMP SOLR RAD FACTOR(TFACT)=    0.4400          NITRIFICATION INHIBITION COEF  =    0.6000
ENDATA1A                            0.0000                                              0.0000

 $$$ DATA TYPE 1B (TEMPERATURE CORRECTION CONSTANTS FOR RATE COEFFICIENTS) $$$

CARD TYPE     RATE CODE     THETA VALUE

THETA( 1)      BOD DECA        1.047     USER
THETA( 2)      BOD SETT        1.024     USER
THETA( 3)      OXY TRAN        1.024     USER
THETA( 4)      SOD RATE        1.065     USER
THETA( 5)      ORGN DEC        1.047     USER
THETA( 6)      ORGN SET        1.024     USER
THETA( 7)      NH3 DECA        1.070     USER
THETA( 8)      NH3 SRCE        1.074     USER
THETA( 9)      NO2 DECA        1.047     USER
THETA(10)      PORG DEC        1.047     USER
THETA(11)      PORG SET        1.024     USER
THETA(12)      DISP SRC        1.074     USER
THETA(13)      ALG GROW        1.047     USER
THETA(14)      ALG RESP        1.047     USER
THETA(15)      ALG SETT        1.024     USER
THETA(16)      COLI DEC        1.047     DFLT
THETA(17)      ANC DECA        1.000     DFLT
THETA(18)      ANC SETT        1.024     DFLT
THETA(19)      ANC SRCE        1.000     DFLT
ENDATA1B

 $$$ DATA TYPE 2 (REACH IDENTIFICATION) $$$

CARD TYPE           REACH ORDER AND IDENT              R. MI/KM           R. MI/KM
STREAM REACH     1.0  RCH=        REACH 1    FROM        200.4    TO         195.4
STREAM REACH     2.0  RCH=        REACH 2    FROM        195.4    TO         190.4
STREAM REACH     3.0  RCH=        REACH 3    FROM        190.4    TO         185.4
STREAM REACH     4.0  RCH=        REACH 4    FROM        185.4    TO         180.4
STREAM REACH     5.0  RCH=        REACH 5    FROM        180.4    TO         175.4
STREAM REACH     6.0  RCH=        REACH 6    FROM        175.4    TO         170.4
STREAM REACH     7.0  RCH=        REACH 7    FROM        170.4    TO         165.4
STREAM REACH     8.0  RCH=        REACH 8    FROM        165.4    TO         160.4
STREAM REACH     9.0  RCH=        REACH 9    FROM        160.4    TO         155.4
STREAM REACH    10.0  RCH=        REACH 10   FROM        155.4    TO         150.4
STREAM REACH    11.0  RCH=        REACH 11   FROM        150.4    TO         145.4
STREAM REACH    12.0  RCH=        REACH 12   FROM        145.4    TO         140.4
STREAM REACH    13.0  RCH=        REACH 13   FROM        140.4    TO         135.4
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STREAM REACH    14.0  RCH=        REACH 14   FROM        135.4    TO         130.4
STREAM REACH    15.0  RCH=        REACH 15   FROM        130.4    TO         125.4
STREAM REACH    16.0  RCH=        REACH 16   FROM        125.4    TO         120.4
STREAM REACH    17.0  RCH=        REACH 17   FROM        120.4    TO         117.4
ENDATA2          0.0                                      0.0                  0.0

 $$$ DATA TYPE 3 (TARGET LEVEL DO AND FLOW AUGMENTATION SOURCES) $$$

CARD TYPE                  REACH  AVAIL HDWS TARGET     ORDER OF AVAIL SOURCES
ENDATA3                     0.        0.       0.0   0.   0.   0.   0.   0.   0.

 $$$ DATA TYPE 4 (COMPUTATIONAL REACH FLAG FIELD) $$$

CARD TYPE        REACH ELEMENTS/REACH             COMPUTATIONAL FLAGS
FLAG FIELD        1.       20.          1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        2.       20.          2.2.2.2.2.2.2.6.7.6.7.6.2.2.6.2.6.2.2.2.
FLAG FIELD        3.       20.          2.2.2.2.6.2.2.2.2.6.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        4.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        5.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        6.       20.          2.2.2.2.2.2.2.2.2.2.6.2.2.2.2.6.2.2.2.2.
FLAG FIELD        7.       20.          2.2.2.7.6.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD        8.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.6.2.2.
FLAG FIELD        9.       20.          2.2.2.6.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       10.       20.          2.2.2.2.2.2.2.6.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       11.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       12.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       13.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       14.       20.          2.2.2.2.2.2.2.6.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       15.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       16.       20.          2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
FLAG FIELD       17.       12.          2.2.2.2.2.2.2.2.2.2.5.0.0.0.0.0.0.0.0.0.
ENDATA4           0.        0.          0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.

 $$$ DATA TYPE 5 (HYDRAULIC DATA FOR DETERMINING VELOCITY AND DEPTH) $$$

CARD TYPE        REACH  COEF-DSPN  COEFQV    EXPOQV    COEFQH   EXPOQH     CMANN
HYDRAULICS        1.      30.00     0.000     0.979    14.000     0.016     0.035
HYDRAULICS        2.      30.00     0.000     0.984    13.300     0.014     0.035
HYDRAULICS        3.      30.00     0.000     0.979    12.400     0.012     0.035
HYDRAULICS        4.      30.00     0.000     0.982    16.100     0.015     0.035
HYDRAULICS        5.      30.00     0.000     0.986    21.200     0.009     0.035
HYDRAULICS        6.      30.00     0.000     0.992    21.700     0.005     0.035
HYDRAULICS        7.      30.00     0.000     0.993    21.700     0.003     0.035
HYDRAULICS        8.      30.00     0.000     0.995    21.600     0.003     0.035
HYDRAULICS        9.      30.00     0.000     0.996    21.600     0.001     0.035
HYDRAULICS       10.      30.00     0.000     0.996    21.100     0.002     0.035
HYDRAULICS       11.      30.00     0.000     0.997    20.900     0.002     0.035
HYDRAULICS       12.      30.00     0.000     0.998    26.500     0.001     0.035
HYDRAULICS       13.      30.00     0.000     0.998    32.300     0.001     0.035
HYDRAULICS       14.      30.00     0.000     0.999    29.800     0.001     0.035
HYDRAULICS       15.      30.00     0.000     0.999    27.300     0.000     0.035
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HYDRAULICS       16.     30.00     0.000     0.999    24.700     0.000     0.035
HYDRAULICS       17.     30.00     0.000     1.000    22.500     0.000     0.035
ENDATA5           0.      0.00     0.000     0.000     0.000     0.000     0.000

 $$$ DATA TYPE 5A (STEADY STATE TEMPERATURE AND CLIMATOLOGY DATA) $$$

CARD TYPE                          DUST     CLOUD   DRY BULB  WET BULB     ATM              SOLAR RAD
                 REACH   ELEVATION  COEF     COVER     TEMP      TEMP    PRESSURE     WIND   ATTENUATION
TEMP/LCD           1.       54.00   0.13      0.20     55.70     51.70     30.00      8.71      1.00
TEMP/LCD           2.       54.00   0.13      0.20     55.70     51.70     30.00      8.71      1.00
TEMP/LCD           3.       54.00   0.13      0.20     55.70     51.70     30.00      8.71      1.00
TEMP/LCD           4.       54.00   0.13      0.20     55.70     51.70     30.00      8.71      1.00
TEMP/LCD           5.       54.00   0.13      0.20     55.70     51.70     30.00      8.71      1.00
TEMP/LCD           6.       54.00   0.13      0.20     55.70     51.70     30.00      8.71      1.00
TEMP/LCD           7.       54.00   0.13      0.20     55.70     51.70     30.00      8.71      1.00
TEMP/LCD           8.       54.00   0.13      0.20     55.70     51.70     30.00      8.71      1.00
TEMP/LCD           9.       54.00   0.13      0.20     55.70     51.70     30.00      8.71      1.00
TEMP/LCD          10.       54.00   0.13      0.20     55.70     51.70     30.00      8.71      1.00
TEMP/LCD          11.       54.00   0.13      0.20     55.70     51.70     30.00      8.71      1.00
TEMP/LCD          12.       54.00   0.13      0.20     55.70     51.70     30.00      8.71      1.00
TEMP/LCD          13.       54.00   0.13      0.20     55.70     51.70     30.00      8.71      1.00
TEMP/LCD          14.       54.00   0.13      0.20     55.70     51.70     30.00      8.71      1.00
TEMP/LCD          15.       54.00   0.13      0.20     55.70     51.70     30.00      8.71      1.00
TEMP/LCD          16.       54.00   0.13      0.20     55.70     51.70     30.00      8.71      1.00
TEMP/LCD          17.       54.00   0.13      0.20     55.70     51.70     30.00      8.71      1.00
ENDATA5A           0.        0.00   0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 6 (REACTION COEFFICIENTS FOR DEOXYGENATION AND REAERATION) $$$

CARD TYPE        REACH     K1        K3       SOD         K2OPT     K2      COEQK2    OR   EXPQK2
                                              RATE                         TSIV COEF  OR    SLOPE
                                                                           FOR OPT 8      FOR OPT 8
REACT COEF         1.      0.03      0.00      0.000        1.      0.22      0.000        0.00000
REACT COEF         2.      0.03      0.00      0.000        1.      0.24      0.000        0.00000
REACT COEF         3.      0.03      0.00      0.000        1.      0.26      0.000        0.00000
REACT COEF         4.      0.03      0.00      0.000        1.      0.20      0.000        0.00000
REACT COEF         5.      0.03      0.00      0.000        1.      0.16      0.000        0.00000
REACT COEF         6.      0.03      0.00      0.000        1.      0.16      0.000        0.00000
REACT COEF         7.      0.03      0.00      0.011        1.      0.16      0.000        0.00000
REACT COEF         8.      0.03      0.00      0.011        1.      0.16      0.000        0.00000
REACT COEF         9.      0.03      0.00      0.011        1.      0.16      0.000        0.00000
REACT COEF        10.      0.03      0.00      0.011        1.      0.16      0.000        0.00000
REACT COEF        11.      0.03      0.00      0.011        1.      0.17      0.000        0.00000
REACT COEF        12.      0.03      0.00      0.011        1.      0.13      0.000        0.00000
REACT COEF        13.      0.03      0.00      0.011        1.      0.11      0.000        0.00000
REACT COEF        14.      0.03      0.00      0.011        1.      0.12      0.000        0.00000
REACT COEF        15.      0.03      0.00      0.011        1.      0.13      0.000        0.00000
REACT COEF        16.      0.03      0.00      0.011        1.      0.14      0.000        0.00000
REACT COEF        17.      0.03      0.00      0.011        1.      0.16      0.000        0.00000
ENDATA6            0.      0.00      0.00      0.000        0.      0.00      0.000        0.00000
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$$$ DATA TYPE 6A (NITROGEN AND PHOSPHORUS CONSTANTS) $$$

CARD TYPE	REACH	CKNH2	SETNH2	CKNH3	SNH3	CKNO2	CKPORG	SETPORG	SPO4
N AND P COEF	1.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	2.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	3.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	4.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	5.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	6.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	7.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	8.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	9.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	10.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	11.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	12.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	13.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	14.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	15.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	16.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
N AND P COEF	17.	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00
ENDATA6A	0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 6B (ALGAE/OTHER COEFFICIENTS) $$$

CARD TYPE	REACH	ALPHAO	ALGSET	EXCOEF	CK5 CKCOLI	CKANC	SETANC	SRCANC
ALG/OTHER COEF	1.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ALG/OTHER COEF	2.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ALG/OTHER COEF	3.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	4.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	5.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	6.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	7.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	8.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	9.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	10.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	11.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	12.	50.00	0.05	0.90	0.00	0.00	0.00	0.00
ALG/OTHER COEF	13.	50.00	0.05	0.82	0.00	0.00	0.00	0.00
ALG/OTHER COEF	14.	50.00	0.05	0.82	0.00	0.00	0.00	0.00
ALG/OTHER COEF	15.	50.00	0.05	0.82	0.00	0.00	0.00	0.00
ALG/OTHER COEF	16.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ALG/OTHER COEF	17.	50.00	0.05	0.72	0.00	0.00	0.00	0.00
ENDATA6B	0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 7 (INITIAL CONDITIONS) $$$

CARD TYPE	REACH	TEMP	D.O.	BOD	CM-1	CM-2	CM-3	ANC	COLI
INITIAL COND-1	1.	66.60	5.00	5.00	0.00	0.00	0.00	0.00	0.00
INITIAL COND-1	2.	66.60	5.00	5.00	0.00	0.00	0.00	0.00	0.00
INITIAL COND-1	3.	66.60	5.00	5.00	0.00	0.00	0.00	0.00	0.00

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INITIAL COND-1        4.     66.60      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        5.     66.60      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        6.     66.60      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        7.     66.60      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        8.     66.60      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1        9.     66.60      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       10.     66.60      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       11.     66.60      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       12.     66.60      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       13.     66.60      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       14.     66.60      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       15.     66.60      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       16.     66.60      5.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL COND-1       17.     66.60      5.00      5.00      0.00      0.00      0.00      0.00      0.00
ENDATA7               0.      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 7A (INITIAL CONDITIONS FOR CHOROPHYLL A, NITROGEN, AND PHOSPHORUS) $$$

CARD TYPE          REACH     CHL-A     ORG-N     NH3-N     NO2-N     NO3-N     ORG-P     DIS-P
INITIAL COND-2       1.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2       2.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2       3.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2       4.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2       5.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2       6.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2       7.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2       8.     10.00      0.55      0.03      0.02      0.20      0.06      0.02
INITIAL COND-2       9.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2      10.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2      11.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2      12.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2      13.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2      14.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2      15.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2      16.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
INITIAL COND-2      17.     10.00      0.55      0.03      0.02      0.30      0.06      0.03
ENDATA7A             0.      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 8 (INCREMENTAL INFLOW CONDITIONS) $$$

CARD TYPE          REACH      FLOW      TEMP      D.O.       BOD      CM-1      CM-2      CM-3       ANC      COLI
INCR INFLOW-1        1.     3.000     66.60      5.00      0.00      0.00      0.00      0.00      0.00      0.08
INCR INFLOW-1        2.     3.000     66.60      5.00      0.00      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        3.     3.000     66.60      5.00    370.40      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        4.     3.000     66.60      5.00    740.70      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        5.     3.000     66.60      5.00    833.30      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        6.     3.000     66.60      5.00    740.70      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        7.     3.000     66.60      5.00    555.60      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        8.     3.000     66.60      5.00    555.60      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        9.     3.000     66.60      5.00    555.60      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1       10.     3.000     66.60      5.00    555.60      0.00      0.00      0.00      0.00      0.00
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INCR INFLOW-1        11.     3.000     66.60      5.00    468.50      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        12.     3.000     66.60      5.00    468.50      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        13.     3.000     66.60      5.00    451.50      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        14.     3.000     66.60      5.00    408.90      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        15.     3.000     66.60      5.00    366.30      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        16.     3.000     66.60      5.00    323.70      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-1        17.     3.000     66.60      5.00    281.10      0.00      0.00      0.00      0.00      0.00
ENDATA8               0.     0.000      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 8A (INCREMENTAL INFLOW CONDITIONS FOR CHLOROPHYLL A, NITROGEN, AND PHOSPHORUS) $$$

CARD TYPE           REACH    CHL-A     ORG-N     NH3-N     NO2-N     NO3-N     ORG-P     DIS-P
INCR INFLOW-2         1.      0.00      0.00      0.00      0.00      0.00      0.74      0.00
INCR INFLOW-2         2.      0.00      0.00      0.00      0.00      0.00     12.96      0.00
INCR INFLOW-2         3.      0.00      0.00      0.00      0.00      0.00     25.93      0.00
INCR INFLOW-2         4.      0.00      0.00      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         5.      0.00      0.00      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         6.      0.00     22.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         7.      0.00     22.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         8.      0.00     22.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2         9.      0.00     22.20      0.00      0.00      0.00      3.70      0.00
INCR INFLOW-2        10.      0.00     22.20      0.00      0.00      0.00      5.56      0.00
INCR INFLOW-2        11.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        12.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        13.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        14.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        15.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        16.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
INCR INFLOW-2        17.      0.00     10.20      0.00      0.00      0.00      0.00      0.00
ENDATA8A              0.      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 9 (STREAM JUNCTIONS) $$$

CARD TYPE              JUNCTION ORDER AND IDENT         UPSTRM   JUNCTION    TRIB
ENDATA9                0.                                 0.        0.        0.

 $$$ DATA TYPE 10 (HEADWATER SOURCES) $$$

CARD TYPE    HDWTR     NAME              FLOW      TEMP      D.O.       BOD      CM-1      CM-2      CM-3
             ORDER
HEADWTR-1      1.          REACH 1    1231.00     65.50      7.50      5.60      0.00      0.00      0.00
ENDATA10       0.                        0.00      0.00      0.00      0.00      0.00      0.00      0.00

 $$$ DATA TYPE 10A (HEADWATER CONDITIONS FOR CHLOROPHYLL, NITROGEN, PHOSPHORUS,
                    COLIFORM AND SELECTED NON-CONSERVATIVE CONSTITUENT) $$$

CARD TYPE     HDWTR     ANC      COLI     CHL-A     ORG-N     NH3-N     NO2-N     NO3-N     ORG-P     DIS-P
              ORDER
HEADWTR-2       1.     0.00      0.00     13.80      0.72      0.03      0.02      0.17      0.04      0.02
ENDATA10A       0.     0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
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$$$ DATA TYPE 11 (POINT SOURCE / POINT SOURCE CHARACTERISTICS) $$$

CARD TYPE	POINT LOAD ORDER	NAME	EFF	FLOW	TEMP	D.O.	BOD	CM-1	CM-2	CM-3
POINTLD-1	1.	BARTHOLOMEW	0.00	69.00	60.30	7.90	8.10	0.00	0.00	0.00
POINTLD-1	2.	OUCH POW IN	0.00	-10.62	74.10	0.00	0.00	0.00	0.00	0.00
POINTLD-1	3.	OUCH POW OUT	0.00	2.40	99.00	6.00	5.00	0.00	0.00	0.00
POINTLD-1	4.	ENT STER IN	0.00	-307.54	74.10	0.00	0.00	0.00	0.00	0.00
POINTLD-1	5.	ENT STER OUT	0.00	307.54	112.00	7.70	5.00	0.00	0.00	0.00
POINTLD-1	6.	STERLINGTON	0.00	0.29	86.00	2.00	69.00	0.00	0.00	0.00
POINTLD-1	7.	KOCH OO1	0.00	4.82	86.00	2.00	10.70	0.00	0.00	0.00
POINTLD-1	8.	ANGUS 002	0.00	1.45	86.00	2.00	106.00	0.00	0.00	0.00
POINTLD-1	9.	B DE L'OUTRE	0.00	13.10	62.80	7.70	5.60	0.00	0.00	0.00
POINTLD-1	10.	B D'ARBONNE	0.00	0.00	65.80	7.50	5.60	0.00	0.00	0.00
POINTLD-1	11.	CHAUVIN B	0.00	2.40	60.30	7.90	23.00	0.00	0.00	0.00
POINTLD-1	12.	ENT MON IN	0.00	-224.30	75.10	0.00	0.00	0.00	0.00	0.00
POINTLD-1	13.	ENT MON OUT	0.00	224.30	106.00	6.75	7.00	0.00	0.00	0.00
POINTLD-1	14.	JUDY SLOUGH	0.00	43.71	59.90	2.00	86.40	0.00	0.00	0.00
POINTLD-1	15.	MONROE POTW	0.00	23.21	86.00	2.00	23.00	0.00	0.00	0.00
POINTLD-1	16.	CHENERE CR	0.00	0.50	59.90	8.00	12.10	0.00	0.00	0.00
POINTLD-1	17.	CYPRESS CR	0.00	0.00	86.00	0.00	0.00	0.00	0.00	0.00
ENDATA11	0.		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 11A (POINT SOURCE CHARACTERISTICS - CHLOROPHYLL A, NITROGEN, PHOSPHORUS, COLIFORMS AND SELECTED NON-CONSERVATIVE CONSTITUENT) $$$

CARD TYPE	POINT LOAD ORDER	ANC	COLI	CHL-A	ORG-N	NH3-N	NO2-N	N03-N	ORG-P	DIS-P
POINTLD-2	1.	0.00	0.00	17.40	0.70	0.02	0.02	0.22	0.21	0.03
POINTLD-2	2.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POINTLD-2	3.	0.00	0.00	0.00	0.70	0.03	0.02	0.16	0.08	0.02
POINTLD-2	4.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POINTLD-2	5.	0.00	0.00	0.00	0.70	0.03	0.02	0.20	0.10	0.02
POINTLD-2	6.	0.00	0.00	100.00	10.00	5.00	0.00	0.70	2.50	1.00
POINTLD-2	7.	0.00	0.00	0.00	0.76	16.50	0.00	0.58	0.24	0.15
POINTLD-2	8.	0.00	0.00	0.00	8.32	0.31	0.00	34.33	0.33	0.01
POINTLD-2	9.	0.00	0.00	13.30	0.81	0.02	0.02	0.08	0.08	0.01
POINTLD-2	10.	0.00	0.00	13.30	0.71	0.02	0.02	0.07	0.06	0.01
POINTLD-2	11.	0.00	0.00	29.30	1.88	1.24	0.02	0.22	0.41	0.63
POINTLD-2	12.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POINTLD-2	13.	0.00	0.00	0.00	0.67	0.04	0.04	0.30	0.15	0.03
POINTLD-2	14.	0.00	0.00	12.20	2.98	1.50	0.00	0.12	0.69	0.70
POINTLD-2	15.	0.00	0.00	0.00	0.67	1.33	0.00	6.36	0.95	0.29
POINTLD-2	16.	0.00	0.00	13.30	0.81	0.02	0.00	0.03	0.06	0.01
POINTLD-2	17.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENDATA11A	0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

$$$ DATA TYPE 12 (DAM CHARACTERISTICS) $$$

```
                            DAM   RCH   ELE    ADAM    BDAM    FDAM    HDAM

        ENDATA12                0.    0.    0.    0.00    0.00    0.00    0.00

         $$$ DATA TYPE 13 (DOWNSTREAM BOUNDARY CONDITIONS-1) $$$

             CARD TYPE               TEMP       D.O.      BOD       CM-1      CM-2      CM-3       ANC      COLI

        ENDATA13                    DOWNSTREAM BOUNDARY CONCENTRATIONS ARE UNCONSTRAINED

         $$$ DATA TYPE 13A (DOWNSTREAM BOUNDARY CONDITIONS-2) $$$

             CARD TYPE               CHL-A     ORG-N     NH3-N     NO2-N     NH3-N     ORG-P     DIS-P

        ENDATA13A                   DOWNSTREAM BOUNDARY CONCENTRATIONS ARE UNCONSTRAINED


STEADY STATE TEMPERATURE SIMULATION; CONVERGENCE SUMMARY:
---------------------------------------------------------

                    NUMBER OF
        ITERATION   NONCONVERGENT
                      ELEMENTS

             1            200
             2              0


SUMMARY OF VALUES FOR STEADY STATE TEMPERATURE CALCULATIONS (SUBROUTINE HEATER):
-------------------------------------------------------------------------------

      DAILY NET SOLAR RADIATION =    1262.622 BTU/FT-2   (  342.638 LANGLEYS)
      NUMBER OF DAYLIGHT HOURS =  10.3


      HOURLY VALUES OF SOLAR RADIATION (BTU/FT-2)

           1     0.00         9    95.59        17    19.22
           2     0.00        10   145.90        18     0.00
           3     0.00        11   181.40        19     0.00
           4     0.00        12   198.77        20     0.00
           5     0.00        13   196.34        21     0.00
           6     0.00        14   174.34        22     0.00
           7     0.05        15   134.89        23     0.00
           8    34.56        16    81.58        24     0.00


STEADY STATE ALGAE/NUTRIENT/DISSOLVED OXYGEN SIMULATION; CONVERGENCE SUMMARY:
-----------------------------------------------------------------------------

                                              NUMBER OF
```

VARIABLE	ITERATION	NONCONVERGENT ELEMENTS
ALGAE GROWTH RATE	1	332
ALGAE GROWTH RATE	2	332
ALGAE GROWTH RATE	3	325
ALGAE GROWTH RATE	4	296
ALGAE GROWTH RATE	5	146
ALGAE GROWTH RATE	6	0
NITRIFICATION INHIBITION	1	0
ALGAE GROWTH RATE	7	0
NITRIFICATION INHIBITION	2	0

SUMMARY OF CONDITIONS FOR ALGAL GROWTH RATE SIMULATION:

1. LIGHT AVERAGING OPTION. LAVOPT= 3

METHOD: AVERAGE OF HOURLY SOLAR VALUES

SOURCE OF SOLAR VALUES: SUBROUTINE HEATER (SS TEMP)
DAILY NET SOLAR RADIATION: 1262.622 BTU/FT-2 (342.638 LANGLEYS)
NUMBER OF DAYLIGHT HOURS: 10.3
PHOTOSYNTHETIC ACTIVE FRACTION OF SOLAR RADIATION (TFACT): 0.44
MEAN SOLAR RADIATION ADJUSTMENT FACTOR (AFACT): N/A

HOURLY VALUES OF SOLAR RADIATION (LANGLEYS)

1	0.00	9	25.94	17	5.21
2	0.00	10	39.59	18	0.00
3	0.00	11	49.23	19	0.00
4	0.00	12	53.94	20	0.00
5	0.00	13	53.28	21	0.00
6	0.00	14	47.31	22	0.00
7	0.01	15	36.60	23	0.00
8	9.38	16	22.14	24	0.00

2. LIGHT FUNCTION OPTION: LFNOPT= 1

HALF SATURATION METHOD, WITH HALF SATURATION COEF = 0.018 LANGLEYS/MIN

3. GROWTH ATTENUATION OPTION FOR NUTRIENTS. LGROPT= 1

MULTIPLICATIVE: FL*FN*FP

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	65.49	65.48	65.47	65.46	65.45	65.44	65.43	65.42	65.41	65.40	65.39	65.38	65.37	65.36	65.35	65.34	65.33	65.33	65.32	65.31
2	65.30	65.29	65.28	65.27	65.26	65.25	65.24	64.98	64.97	65.03	65.25	76.04	75.97	75.90	75.83	75.76	75.73	75.67	75.60	75.54
3	75.47	75.41	75.34	75.28	75.23	75.16	75.10	75.04	74.97	74.80	74.74	74.68	74.62	74.56	74.50	74.44	74.38	74.33	74.27	74.21
4	74.15	74.09	74.03	73.97	73.91	73.85	73.79	73.73	73.67	73.61	73.55	73.49	73.43	73.37	73.32	73.26	73.20	73.15	73.09	73.04
5	72.98	72.92	72.87	72.81	72.75	72.70	72.64	72.59	72.53	72.48	72.43	72.37	72.32	72.27	72.21	72.16	72.11	72.06	72.01	71.96
6	71.90	71.85	71.79	71.74	71.69	71.63	71.58	71.53	71.48	71.43	71.37	71.32	71.27	71.22	71.17	71.10	71.06	71.01	70.96	70.91
7	70.86	70.81	70.77	70.90	76.52	76.43	76.33	76.24	76.15	76.05	75.96	75.87	75.79	75.70	75.61	75.52	75.44	75.35	75.27	75.18
8	75.09	75.01	74.92	74.83	74.74	74.66	74.57	74.49	74.40	74.32	74.24	74.16	74.07	73.99	73.91	73.83	73.74	73.25	73.17	73.10
9	73.04	72.97	72.91	73.06	72.99	72.93	72.86	72.80	72.74	72.67	72.61	72.55	72.49	72.43	72.37	72.31	72.25	72.19	72.13	72.07
10	72.02	71.96	71.91	71.86	71.81	71.75	71.70	71.64	71.59	71.54	71.49	71.44	71.39	71.34	71.29	71.24	71.20	71.15	71.10	71.05
11	71.01	70.96	70.92	70.88	70.83	70.79	70.75	70.71	70.66	70.62	70.58	70.54	70.50	70.46	70.42	70.38	70.34	70.30	70.26	70.22
12	70.18	70.15	70.11	70.07	70.04	70.00	69.96	69.93	69.89	69.86	69.82	69.79	69.75	69.72	69.69	69.65	69.62	69.59	69.55	69.52
13	69.49	69.46	69.42	69.39	69.36	69.33	69.30	69.27	69.24	69.21	69.18	69.15	69.12	69.09	69.07	69.04	69.01	68.98	68.95	68.92
14	68.89	68.86	68.83	68.80	68.77	68.74	68.71	68.68	68.65	68.62	68.59	68.56	68.53	68.50	68.47	68.44	68.42	68.39	68.36	68.33
15	68.30	68.27	68.24	68.21	68.18	68.15	68.12	68.09	68.07	68.04	68.01	67.98	67.95	67.92	67.90	67.87	67.84	67.81	67.79	67.76
16	67.73	67.70	67.67	67.64	67.62	67.59	67.56	67.53	67.50	67.48	67.45	67.42	67.39	67.37	67.34	67.32	67.29	67.26	67.24	67.21
17	67.19	67.16	67.13	67.11	67.08	67.05	67.03	67.00	66.97	66.95	66.92	66.90								

DISSOLVED OXYGEN IN MG/L ITERATION 9

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	7.52	7.53	7.54	7.56	7.57	7.59	7.60	7.61	7.63	7.64	7.65	7.67	7.68	7.69	7.71	7.72	7.73	7.74	7.75	7.76
2	7.78	7.79	7.80	7.81	7.83	7.84	7.85	7.86	7.87	7.88	7.89	7.84	7.83	7.82	7.81	7.80	7.77	7.76	7.75	7.75
3	7.74	7.73	7.72	7.72	7.70	7.70	7.69	7.69	7.68	7.68	7.67	7.67	7.66	7.66	7.65	7.65	7.64	7.64	7.64	7.63
4	7.63	7.61	7.60	7.59	7.58	7.57	7.56	7.55	7.54	7.53	7.52	7.52	7.51	7.50	7.49	7.48	7.47	7.46	7.46	7.45
5	7.44	7.42	7.40	7.39	7.37	7.36	7.34	7.33	7.31	7.30	7.28	7.27	7.26	7.24	7.23	7.22	7.20	7.19	7.18	7.17
6	7.15	7.14	7.13	7.12	7.11	7.10	7.08	7.07	7.06	7.05	7.04	7.03	7.02	7.01	7.01	7.00	6.99	6.98	6.97	6.96
7	6.95	6.94	6.93	6.92	6.87	6.84	6.82	6.80	6.78	6.76	6.74	6.72	6.70	6.68	6.66	6.65	6.63	6.62	6.60	6.59
8	6.58	6.56	6.55	6.54	6.53	6.52	6.51	6.50	6.49	6.48	6.47	6.46	6.45	6.45	6.44	6.44	6.42	6.27	6.25	6.24
9	6.22	6.21	6.19	6.11	6.10	6.09	6.08	6.07	6.06	6.04	6.04	6.03	6.02	6.01	6.00	6.00	5.99	5.98	5.98	5.97
10	5.97	5.96	5.96	5.96	5.95	5.95	5.95	5.95	5.95	5.95	5.95	5.94	5.94	5.94	5.94	5.94	5.94	5.94	5.94	5.94
11	5.94	5.95	5.95	5.95	5.95	5.95	5.95	5.96	5.96	5.96	5.96	5.97	5.97	5.97	5.97	5.98	5.98	5.98	5.99	5.99
12	5.99	5.98	5.97	5.96	5.95	5.94	5.93	5.93	5.92	5.91	5.90	5.90	5.89	5.89	5.88	5.88	5.87	5.87	5.86	5.86
13	5.85	5.83	5.82	5.80	5.79	5.78	5.76	5.75	5.74	5.73	5.72	5.71	5.69	5.68	5.67	5.67	5.66	5.65	5.64	5.63
14	5.63	5.62	5.62	5.62	5.62	5.62	5.61	5.61	5.61	5.61	5.61	5.61	5.61	5.61	5.61	5.61	5.61	5.61	5.61	5.61
15	5.62	5.63	5.63	5.64	5.65	5.66	5.67	5.67	5.68	5.69	5.70	5.71	5.71	5.72	5.73	5.74	5.75	5.75	5.76	5.77
16	5.78	5.80	5.82	5.83	5.85	5.86	5.88	5.89	5.91	5.92	5.94	5.95	5.96	5.98	5.99	6.01	6.02	6.03	6.05	6.06
17	6.08	6.10	6.12	6.13	6.15	6.17	6.19	6.20	6.22	6.24	6.25	6.27								

BIOCHEMICAL OXYGEN DEMAND ITERATION 9

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	5.58	5.57	5.55	5.54	5.52	5.50	5.49	5.47	5.46	5.44	5.43	5.41	5.40	5.38	5.36	5.35	5.33	5.32	5.30	5.29
2	5.27	5.26	5.25	5.23	5.22	5.20	5.20	5.33	5.32	5.30	5.29	5.21	5.19	5.17	5.17	5.15	5.16	5.14	5.12	5.11
3	5.14	5.16	5.19	5.22	5.36	5.38	5.41	5.44	5.46	5.49	5.52	5.55	5.57	5.60	5.62	5.65	5.68	5.70	5.73	5.76
4	5.82	5.88	5.94	6.00	6.06	6.12	6.18	6.24	6.30	6.35	6.41	6.47	6.53	6.59	6.64	6.70	6.76	6.81	6.87	6.93
5	6.99	7.05	7.11	7.16	7.22	7.28	7.34	7.39	7.45	7.51	7.56	7.62	7.67	7.73	7.78	7.84	7.89	7.95	8.00	8.05
6	8.09	8.13	8.17	8.21	8.25	8.29	8.33	8.37	8.41	8.44	8.48	8.52	8.56	8.60	8.63	8.70	8.73	8.77	8.81	8.84
7	8.86	8.87	8.88	8.88	8.58	8.59	8.60	8.61	8.61	8.62	8.63	8.64	8.64	8.65	8.66	8.67	8.68	8.68	8.69	8.70

8	8.71	8.71	8.72	8.72	8.72	8.73	8.74	8.74	8.75	8.75	8.76	8.76	8.77	8.77	8.78	8.79	8.88	11.24	11.23	11.22
9	11.21	11.21	11.22	11.40	11.39	11.39	11.38	11.38	11.38	11.37	11.37	11.37	11.36	11.36	11.35	11.35	11.35	11.35	11.34	11.34
10	11.34	11.34	11.34	11.34	11.35	11.35	11.35	11.35	11.36	11.36	11.36	11.36	11.37	11.37	11.37	11.37	11.38	11.38	11.38	11.39
11	11.38	11.38	11.38	11.38	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.36	11.36	11.36	11.36	11.36	11.36	11.35	11.35	11.35
12	11.35	11.33	11.32	11.31	11.30	11.29	11.28	11.27	11.26	11.25	11.24	11.23	11.22	11.21	11.20	11.19	11.18	11.17	11.16	11.15
13	11.14	11.12	11.10	11.08	11.06	11.04	11.02	11.00	10.98	10.96	10.95	10.93	10.91	10.89	10.87	10.86	10.84	10.82	10.81	10.79
14	10.77	10.74	10.72	10.70	10.68	10.65	10.63	10.61	10.59	10.57	10.55	10.53	10.50	10.48	10.46	10.44	10.42	10.40	10.38	10.36
15	10.34	10.31	10.29	10.27	10.24	10.22	10.20	10.17	10.15	10.13	10.10	10.08	10.06	10.04	10.02	9.99	9.97	9.95	9.93	9.91
16	9.88	9.86	9.83	9.81	9.79	9.76	9.74	9.72	9.69	9.67	9.65	9.62	9.60	9.58	9.56	9.53	9.51	9.49	9.47	9.45
17	9.44	9.43	9.43	9.42	9.42	9.41	9.41	9.40	9.40	9.39	9.39	9.38								

ORGANIC NITROGEN AS N IN MG/L ITERATION 9

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	0.72	0.72	0.72	0.72	0.72	0.72	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.70
2	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.69	0.70	0.69	0.69	0.69	0.69	0.69
3	0.69	0.69	0.69	0.69	0.70	0.70	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
4	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.66
5	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.64	0.64	0.64	0.64	0.64
6	0.64	0.64	0.64	0.64	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.66	0.66	0.66	0.66	0.66	0.66	0.66
7	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68
8	0.68	0.68	0.68	0.68	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.70	0.77	0.77	0.77
9	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
10	0.78	0.78	0.78	0.78	0.78	0.78	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.80
11	0.80	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79
12	0.79	0.79	0.79	0.79	0.79	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
13	0.78	0.78	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.76	0.76	0.76	0.76	0.76
14	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
15	0.75	0.75	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.73	0.73	0.73	0.73
16	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
17	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72								

AMMONIA AS N IN MG/L ITERATION 9

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
2	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.03	0.03	0.03	0.04	0.03	0.03	0.03	0.04	0.04	0.10	0.09	0.09	0.09
3	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
4	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06
5	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05
6	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
7	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04
8	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.09	0.09	0.09
9	0.08	0.08	0.08	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08
10	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
11	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
12	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
13	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
14	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
15	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
16	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

17	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

NITRITE AS N IN MG/L — ITERATION 9

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
2	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03
3	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
4	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
5	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
6	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
7	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
8	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
9	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
10	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
11	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
12	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
13	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
14	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
15	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
16	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
17	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04								

NITRATE AS N IN MG/L — ITERATION 9

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18
2	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
3	0.19	0.19	0.19	0.19	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
4	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26	0.26	0.26
5	0.26	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.28	0.28	0.29	0.29	0.29	0.29	0.29	0.29
6	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.31	0.31	0.31	0.31	0.31	0.31	0.32	0.32	0.32	0.32	0.32	0.32	0.32
7	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.34	0.34	0.34	0.34	0.34	0.34	0.35	0.35	0.35	0.35	0.35
8	0.35	0.36	0.36	0.36	0.36	0.36	0.36	0.37	0.37	0.37	0.37	0.37	0.37	0.38	0.38	0.38	0.38	0.37	0.38	0.38
9	0.38	0.38	0.39	0.48	0.48	0.49	0.49	0.49	0.49	0.49	0.49	0.50	0.50	0.50	0.50	0.50	0.51	0.51	0.51	0.51
10	0.51	0.52	0.52	0.52	0.52	0.52	0.52	0.53	0.53	0.53	0.53	0.53	0.54	0.54	0.54	0.54	0.54	0.54	0.55	0.55
11	0.55	0.55	0.55	0.55	0.56	0.56	0.56	0.56	0.56	0.56	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.58	0.58	0.58
12	0.58	0.58	0.58	0.59	0.59	0.59	0.59	0.59	0.60	0.60	0.60	0.60	0.60	0.60	0.61	0.61	0.61	0.61	0.61	0.61
13	0.62	0.62	0.62	0.62	0.62	0.62	0.63	0.63	0.63	0.63	0.63	0.64	0.64	0.64	0.64	0.64	0.64	0.65	0.65	0.65
14	0.65	0.65	0.66	0.66	0.66	0.66	0.66	0.66	0.67	0.67	0.67	0.67	0.67	0.67	0.68	0.68	0.68	0.68	0.68	0.68
15	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.70	0.70	0.70	0.70	0.70	0.70	0.71	0.71	0.71	0.71	0.71	0.71	0.71
16	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.74	0.74	0.74	0.74	0.74	0.74
17	0.74	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.76	0.76	0.76								

ORGANIC PHOSPHORUS AS P IN MG/L — ITERATION 9

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
2	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09
3	0.09	0.09	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.15
4	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14

5	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
6	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
7	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
8	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.14
9	0.14	0.14	0.14	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
10	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.17
11	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
12	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
13	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.14	0.14	0.14	0.14	0.14
15	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
16	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
17	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13								

DISSOLVED PHOSPHORUS AS P IN MG/L ITERATION 9

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
2	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
3	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
4	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
5	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
6	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
7	0.03	0.03	0.04	0.04	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
8	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.06	0.06	0.06
9	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
10	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
11	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
12	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
13	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
14	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
15	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10
16	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
17	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10								

ALGAE AS CHL-A IN UG/L ITERATION 9

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	13.77	13.74	13.72	13.69	13.66	13.64	13.61	13.58	13.56	13.53	13.50	13.48	13.45	13.42	13.40	13.37	13.35	13.32	13.29	13.27
2	13.25	13.23	13.20	13.18	13.16	13.14	13.12	13.32	13.30	13.26	13.17	10.10	10.08	10.06	10.06	10.04	9.99	9.98	9.97	9.95
3	9.94	9.92	9.91	9.89	9.87	9.85	9.84	9.82	9.81	9.83	9.82	9.80	9.79	9.78	9.77	9.75	9.74	9.73	9.71	9.70
4	9.68	9.65	9.63	9.60	9.58	9.55	9.52	9.50	9.48	9.45	9.43	9.40	9.38	9.36	9.33	9.31	9.29	9.26	9.24	9.22
5	9.19	9.15	9.12	9.08	9.05	9.01	8.98	8.95	8.91	8.88	8.85	8.82	8.78	8.75	8.72	8.69	8.66	8.63	8.60	8.57
6	8.54	8.51	8.48	8.45	8.42	8.39	8.36	8.33	8.30	8.27	8.24	8.21	8.18	8.16	8.13	8.14	8.11	8.09	8.06	8.03
7	8.01	7.98	7.95	7.89	6.58	6.55	6.53	6.51	6.48	6.46	6.44	6.41	6.39	6.37	6.35	6.33	6.31	6.28	6.26	6.24
8	6.22	6.20	6.18	6.16	6.14	6.12	6.10	6.08	6.06	6.05	6.03	6.01	5.99	5.97	5.96	5.94	5.93	6.11	6.10	6.09
9	6.09	6.08	6.07	5.97	5.97	5.96	5.96	5.96	5.95	5.95	5.95	5.94	5.94	5.94	5.94	5.93	5.93	5.93	5.93	5.92
10	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.91	5.91	5.91	5.91	5.91	5.91	5.91	5.91	5.91	5.91
11	5.91	5.91	5.91	5.91	5.91	5.91	5.91	5.91	5.91	5.91	5.91	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92
12	5.92	5.91	5.90	5.89	5.88	5.88	5.87	5.86	5.86	5.85	5.84	5.83	5.83	5.82	5.81	5.81	5.80	5.79	5.79	5.78
13	5.77	5.76	5.75	5.73	5.72	5.71	5.70	5.69	5.68	5.67	5.66	5.65	5.64	5.63	5.62	5.61	5.60	5.59	5.58	5.57

14	5.56	5.56	5.55	5.54	5.54	5.53	5.52	5.52	5.51	5.50	5.50	5.49	5.49	5.48	5.47	5.47	5.46	5.46	5.45	5.44
15	5.44	5.44	5.44	5.44	5.44	5.43	5.43	5.43	5.43	5.43	5.43	5.43	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42
16	5.43	5.44	5.45	5.46	5.47	5.48	5.49	5.50	5.51	5.52	5.53	5.54	5.55	5.56	5.57	5.58	5.59	5.60	5.61	5.62
17	5.64	5.65	5.67	5.68	5.70	5.71	5.73	5.75	5.76	5.78	5.79	5.81								

ALGAE GROWTH RATES IN PER DAY ARE ITERATION 9

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
2	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05
3	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
4	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
5	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
6	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
7	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
8	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05
9	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
10	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
11	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
12	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
13	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
14	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
15	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
16	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
17	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07								

PHOTOSYNTHESIS-RESPIRATION RATIOS ARE ITERATION 9

RCH/CL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	0.43	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
2	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.50	0.50	0.50	0.51	0.52	0.52	0.52	0.53	0.53	0.60	0.60	0.60	0.60
3	0.54	0.54	0.54	0.54	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.58	0.58	0.58	0.58	0.58	0.58
4	0.44	0.45	0.45	0.45	0.45	0.45	0.46	0.46	0.46	0.46	0.46	0.46	0.47	0.47	0.47	0.47	0.47	0.48	0.48	0.48
5	0.38	0.39	0.39	0.39	0.39	0.39	0.40	0.40	0.40	0.40	0.40	0.41	0.41	0.41	0.41	0.41	0.42	0.42	0.42	0.42
6	0.43	0.43	0.43	0.43	0.43	0.44	0.44	0.44	0.44	0.44	0.45	0.45	0.45	0.45	0.46	0.47	0.47	0.47	0.47	0.47
7	0.48	0.48	0.49	0.49	0.49	0.49	0.49	0.49	0.50	0.50	0.50	0.50	0.50	0.51	0.51	0.51	0.51	0.52	0.52	0.52
8	0.53	0.53	0.53	0.53	0.54	0.54	0.54	0.54	0.55	0.55	0.55	0.55	0.55	0.56	0.56	0.56	0.57	0.69	0.69	0.69
9	0.70	0.70	0.71	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.79	0.79
10	0.80	0.80	0.80	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
11	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.86	0.86
12	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.70	0.70
13	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
14	0.70	0.70	0.70	0.70	0.70	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.72	0.72	0.72	0.72
15	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
16	1.00	1.00	1.00	1.00	1.00	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.02	1.02	1.02
17	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.13								

***** STEADY STATE SIMULATION *****

** HYDRAULICS SUMMARY **

ELE ORD	RCH NUM	ELE NUM	BEGIN LOC MILE	END LOC MILE	FLOW CFS	POINT SRCE CFS	INCR FLOW CFS	VEL FPS	TRVL TIME DAY	DEPTH FT	WIDTH FT	VOLUME K-FT-3	BOTTOM AREA K-FT-2	X-SECT AREA FT-2	DSPRSN COEF FT-2/S
1	1	1	200.38	200.13	1231.15	0.00	0.15	0.194	0.079	15.719	404.381	8390.80	575.28	6356.67	7.71
2	1	2	200.13	199.88	1231.30	0.00	0.15	0.194	0.079	15.720	404.382	8390.82	575.28	6356.68	7.71
3	1	3	199.88	199.63	1231.45	0.00	0.15	0.194	0.079	15.720	404.382	8390.84	575.28	6356.70	7.71
4	1	4	199.63	199.38	1231.60	0.00	0.15	0.194	0.079	15.720	404.382	8390.86	575.28	6356.71	7.71
5	1	5	199.38	199.13	1231.75	0.00	0.15	0.194	0.079	15.720	404.382	8390.88	575.28	6356.73	7.71
6	1	6	199.13	198.88	1231.90	0.00	0.15	0.194	0.079	15.720	404.382	8390.91	575.28	6356.75	7.71
7	1	7	198.88	198.63	1232.05	0.00	0.15	0.194	0.079	15.720	404.383	8390.93	575.29	6356.76	7.71
8	1	8	198.63	198.38	1232.20	0.00	0.15	0.194	0.079	15.720	404.383	8390.95	575.29	6356.78	7.71
9	1	9	198.38	198.13	1232.35	0.00	0.15	0.194	0.079	15.720	404.383	8390.97	575.29	6356.80	7.72
10	1	10	198.13	197.88	1232.50	0.00	0.15	0.194	0.079	15.720	404.383	8390.99	575.29	6356.81	7.72
11	1	11	197.88	197.63	1232.65	0.00	0.15	0.194	0.079	15.720	404.384	8391.01	575.29	6356.83	7.72
12	1	12	197.63	197.38	1232.80	0.00	0.15	0.194	0.079	15.720	404.384	8391.04	575.29	6356.85	7.72
13	1	13	197.38	197.13	1232.95	0.00	0.15	0.194	0.079	15.720	404.384	8391.06	575.29	6356.86	7.72
14	1	14	197.13	196.88	1233.10	0.00	0.15	0.194	0.079	15.720	404.384	8391.08	575.29	6356.88	7.72
15	1	15	196.88	196.63	1233.25	0.00	0.15	0.194	0.079	15.720	404.385	8391.10	575.29	6356.89	7.72
16	1	16	196.63	196.38	1233.40	0.00	0.15	0.194	0.079	15.720	404.385	8391.12	575.29	6356.91	7.72
17	1	17	196.38	196.13	1233.55	0.00	0.15	0.194	0.079	15.720	404.385	8391.14	575.29	6356.93	7.72
18	1	18	196.13	195.88	1233.70	0.00	0.15	0.194	0.079	15.720	404.385	8391.16	575.29	6356.94	7.72
19	1	19	195.88	195.63	1233.85	0.00	0.15	0.194	0.079	15.720	404.386	8391.19	575.29	6356.96	7.73
20	1	20	195.63	195.38	1234.00	0.00	0.15	0.194	0.079	15.720	404.386	8391.21	575.29	6356.98	7.73
21	2	1	195.38	195.13	1234.15	0.00	0.15	0.208	0.073	14.643	404.441	7817.09	572.52	5922.03	7.82
22	2	2	195.13	194.88	1234.30	0.00	0.15	0.208	0.073	14.643	404.441	7817.10	572.52	5922.05	7.82
23	2	3	194.88	194.63	1234.45	0.00	0.15	0.208	0.073	14.643	404.441	7817.12	572.52	5922.06	7.82
24	2	4	194.63	194.38	1234.60	0.00	0.15	0.208	0.073	14.643	404.441	7817.13	572.52	5922.07	7.82
25	2	5	194.38	194.13	1234.75	0.00	0.15	0.208	0.073	14.643	404.441	7817.15	572.52	5922.08	7.82
26	2	6	194.13	193.88	1234.90	0.00	0.15	0.209	0.073	14.643	404.441	7817.16	572.52	5922.09	7.82
27	2	7	193.88	193.63	1235.05	0.00	0.15	0.209	0.073	14.643	404.442	7817.18	572.52	5922.10	7.82
28	2	8	193.63	193.38	1304.20	69.00	0.15	0.220	0.069	14.653	404.501	7824.08	572.63	5927.33	8.26
29	2	9	193.38	193.13	1293.73	-10.62	0.15	0.218	0.070	14.652	404.492	7823.06	572.61	5926.56	8.19
30	2	10	193.13	192.88	1296.28	2.40	0.15	0.219	0.070	14.652	404.494	7823.31	572.61	5926.75	8.21
31	2	11	192.88	192.63	988.89	-307.54	0.15	0.168	0.091	14.599	404.200	7789.08	572.08	5900.82	6.27
32	2	12	192.63	192.38	1296.58	307.54	0.15	0.219	0.070	14.652	404.494	7823.34	572.61	5926.77	8.21
33	2	13	192.38	192.13	1296.73	0.00	0.15	0.219	0.070	14.652	404.495	7823.35	572.62	5926.78	8.21
34	2	14	192.13	191.88	1296.88	0.00	0.15	0.219	0.070	14.652	404.495	7823.37	572.62	5926.79	8.21
35	2	15	191.88	191.63	1297.32	0.29	0.15	0.219	0.070	14.652	404.495	7823.41	572.62	5926.83	8.22
36	2	16	191.63	191.38	1297.47	0.00	0.15	0.219	0.070	14.652	404.495	7823.42	572.62	5926.84	8.22
37	2	17	191.38	191.13	1302.44	4.82	0.15	0.220	0.070	14.653	404.499	7823.91	572.62	5927.20	8.25
38	2	18	191.13	190.88	1302.59	0.00	0.15	0.220	0.070	14.653	404.499	7823.92	572.62	5927.21	8.25
39	2	19	190.88	190.63	1302.74	0.00	0.15	0.220	0.070	14.653	404.500	7823.94	572.62	5927.23	8.25
40	2	20	190.63	190.38	1302.89	0.00	0.15	0.220	0.070	14.653	404.500	7823.95	572.62	5927.24	8.25

41	3	1	190.38	190.13	1303.04	0.00	0.15	0.240	0.064	13.540	400.351	7155.27	564.21	5420.66	8.45
42	3	2	190.13	189.88	1303.19	0.00	0.15	0.240	0.064	13.540	400.352	7155.29	564.21	5420.67	8.45

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 2
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** HYDRAULICS SUMMARY **

ELE ORD	RCH NUM	ELE NUM	BEGIN LOC MILE	END LOC MILE	FLOW CFS	POINT SRCE CFS	INCR FLOW CFS	VEL FPS	TRVL TIME DAY	DEPTH FT	WIDTH FT	VOLUME K-FT-3	BOTTOM AREA K-FT-2	X-SECT AREA FT-2	DSPRSN COEF FT-2/S
43	3	3	189.88	189.63	1303.34	0.00	0.15	0.240	0.064	13.540	400.352	7155.30	564.21	5420.69	8.45
44	3	4	189.63	189.38	1303.49	0.00	0.15	0.240	0.064	13.540	400.352	7155.32	564.21	5420.70	8.45
45	3	5	189.38	189.13	1305.09	1.45	0.15	0.241	0.063	13.540	400.356	7155.50	564.22	5420.83	8.46
46	3	6	189.13	188.88	1305.24	0.00	0.15	0.241	0.063	13.540	400.357	7155.52	564.22	5420.85	8.46
47	3	7	188.88	188.63	1305.39	0.00	0.15	0.241	0.063	13.540	400.357	7155.54	564.22	5420.86	8.46
48	3	8	188.63	188.38	1305.54	0.00	0.15	0.241	0.063	13.540	400.357	7155.55	564.22	5420.87	8.46
49	3	9	188.38	188.13	1305.69	0.00	0.15	0.241	0.063	13.540	400.358	7155.57	564.22	5420.89	8.47
50	3	10	188.13	187.88	1318.94	13.10	0.15	0.243	0.063	13.542	400.391	7157.05	564.27	5422.01	8.55
51	3	11	187.88	187.63	1319.09	0.00	0.15	0.243	0.063	13.542	400.392	7157.07	564.27	5422.02	8.55
52	3	12	187.63	187.38	1319.24	0.00	0.15	0.243	0.063	13.542	400.392	7157.08	564.27	5422.03	8.55
53	3	13	187.38	187.13	1319.39	0.00	0.15	0.243	0.063	13.542	400.392	7157.10	564.27	5422.05	8.55
54	3	14	187.13	186.88	1319.54	0.00	0.15	0.243	0.063	13.542	400.393	7157.12	564.27	5422.06	8.55
55	3	15	186.88	186.63	1319.69	0.00	0.15	0.243	0.063	13.542	400.393	7157.13	564.27	5422.07	8.56
56	3	16	186.63	186.38	1319.84	0.00	0.15	0.243	0.063	13.542	400.393	7157.15	564.27	5422.08	8.56
57	3	17	186.38	186.13	1319.99	0.00	0.15	0.243	0.063	13.542	400.394	7157.17	564.27	5422.10	8.56
58	3	18	186.13	185.88	1320.14	0.00	0.15	0.243	0.063	13.542	400.394	7157.18	564.27	5422.11	8.56
59	3	19	185.88	185.63	1320.29	0.00	0.15	0.244	0.063	13.542	400.395	7157.20	564.27	5422.12	8.56
60	3	20	185.63	185.38	1320.44	0.00	0.15	0.244	0.063	13.542	400.395	7157.22	564.27	5422.13	8.56
61	4	1	185.38	185.13	1320.59	0.00	0.15	0.166	0.092	17.892	445.083	10511.98	634.75	7963.62	7.35
62	4	2	185.13	184.88	1320.74	0.00	0.15	0.166	0.092	17.892	445.083	10512.00	634.75	7963.64	7.35
63	4	3	184.88	184.63	1320.89	0.00	0.15	0.166	0.092	17.893	445.083	10512.02	634.75	7963.65	7.35
64	4	4	184.63	184.38	1321.04	0.00	0.15	0.166	0.092	17.893	445.083	10512.05	634.75	7963.67	7.35
65	4	5	184.38	184.13	1321.19	0.00	0.15	0.166	0.092	17.893	445.083	10512.07	634.75	7963.69	7.35
66	4	6	184.13	183.88	1321.34	0.00	0.15	0.166	0.092	17.893	445.083	10512.09	634.75	7963.70	7.36
67	4	7	183.88	183.63	1321.49	0.00	0.15	0.166	0.092	17.893	445.084	10512.11	634.75	7963.72	7.36
68	4	8	183.63	183.38	1321.64	0.00	0.15	0.166	0.092	17.893	445.084	10512.13	634.75	7963.73	7.36
69	4	9	183.38	183.13	1321.79	0.00	0.15	0.166	0.092	17.893	445.084	10512.15	634.75	7963.75	7.36
70	4	10	183.13	182.88	1321.94	0.00	0.15	0.166	0.092	17.893	445.084	10512.17	634.75	7963.77	7.36
71	4	11	182.88	182.63	1322.09	0.00	0.15	0.166	0.092	17.893	445.084	10512.19	634.75	7963.78	7.36
72	4	12	182.63	182.38	1322.24	0.00	0.15	0.166	0.092	17.893	445.084	10512.21	634.75	7963.80	7.36
73	4	13	182.38	182.13	1322.39	0.00	0.15	0.166	0.092	17.893	445.084	10512.23	634.75	7963.81	7.36
74	4	14	182.13	181.88	1322.54	0.00	0.15	0.166	0.092	17.893	445.085	10512.26	634.75	7963.83	7.36
75	4	15	181.88	181.63	1322.69	0.00	0.15	0.166	0.092	17.893	445.085	10512.28	634.75	7963.85	7.36
76	4	16	181.63	181.38	1322.84	0.00	0.15	0.166	0.092	17.893	445.085	10512.30	634.75	7963.86	7.36
77	4	17	181.38	181.13	1322.99	0.00	0.15	0.166	0.092	17.893	445.085	10512.32	634.75	7963.88	7.36

78	4	18	181.13	180.88	1323.14	0.00	0.15	0.166	0.092	17.893	445.085	10512.34	634.75	7963.89	7.37
79	4	19	180.88	180.63	1323.29	0.00	0.15	0.166	0.092	17.893	445.085	10512.36	634.75	7963.91	7.37
80	4	20	180.63	180.38	1323.44	0.00	0.15	0.166	0.092	17.893	445.086	10512.38	634.75	7963.93	7.37
81	5	1	180.38	180.13	1323.59	0.00	0.15	0.126	0.121	22.546	464.384	13820.25	672.51	10469.88	6.79
82	5	2	180.13	179.88	1323.74	0.00	0.15	0.126	0.121	22.546	464.385	13820.27	672.51	10469.90	6.80
83	5	3	179.88	179.63	1323.89	0.00	0.15	0.126	0.121	22.546	464.385	13820.29	672.51	10469.92	6.80
84	5	4	179.63	179.38	1324.04	0.00	0.15	0.126	0.121	22.546	464.385	13820.31	672.51	10469.93	6.80

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 3
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** HYDRAULICS SUMMARY **

ELE ORD	RCH NUM	ELE NUM	BEGIN LOC MILE	END LOC MILE	FLOW CFS	POINT SRCE CFS	INCR FLOW CFS	VEL FPS	TRVL TIME DAY	DEPTH FT	WIDTH FT	VOLUME K-FT-3	BOTTOM AREA K-FT-2	X-SECT AREA FT-2	DSPRSN COEF FT-2/S
85	5	5	179.38	179.13	1324.19	0.00	0.15	0.126	0.121	22.546	464.385	13820.33	672.51	10469.95	6.80
86	5	6	179.13	178.88	1324.34	0.00	0.15	0.126	0.121	22.546	464.386	13820.36	672.51	10469.97	6.80
87	5	7	178.88	178.63	1324.49	0.00	0.15	0.127	0.121	22.546	464.386	13820.38	672.51	10469.98	6.80
88	5	8	178.63	178.38	1324.64	0.00	0.15	0.127	0.121	22.546	464.386	13820.40	672.51	10470.00	6.80
89	5	9	178.38	178.13	1324.79	0.00	0.15	0.127	0.121	22.546	464.387	13820.42	672.51	10470.02	6.80
90	5	10	178.13	177.88	1324.94	0.00	0.15	0.127	0.121	22.546	464.387	13820.44	672.51	10470.03	6.80
91	5	11	177.88	177.63	1325.09	0.00	0.15	0.127	0.121	22.546	464.387	13820.47	672.51	10470.05	6.80
92	5	12	177.63	177.38	1325.24	0.00	0.15	0.127	0.121	22.546	464.387	13820.49	672.51	10470.07	6.80
93	5	13	177.38	177.13	1325.39	0.00	0.15	0.127	0.121	22.546	464.388	13820.51	672.51	10470.08	6.80
94	5	14	177.13	176.88	1325.54	0.00	0.15	0.127	0.121	22.546	464.388	13820.53	672.51	10470.10	6.80
95	5	15	176.88	176.63	1325.69	0.00	0.15	0.127	0.121	22.546	464.388	13820.55	672.51	10470.12	6.81
96	5	16	176.63	176.38	1325.84	0.00	0.15	0.127	0.121	22.546	464.389	13820.58	672.51	10470.13	6.81
97	5	17	176.38	176.13	1325.99	0.00	0.15	0.127	0.121	22.546	464.389	13820.60	672.52	10470.15	6.81
98	5	18	176.13	175.88	1326.14	0.00	0.15	0.127	0.121	22.546	464.389	13820.62	672.52	10470.17	6.81
99	5	19	175.88	175.63	1326.29	0.00	0.15	0.127	0.121	22.546	464.389	13820.64	672.52	10470.18	6.81
100	5	20	175.63	175.38	1326.44	0.00	0.15	0.127	0.121	22.546	464.390	13820.66	672.52	10470.20	6.81
101	6	1	175.38	175.13	1326.59	0.00	0.15	0.116	0.131	22.458	507.510	15044.69	729.20	11397.49	6.24
102	6	2	175.13	174.88	1326.74	0.00	0.15	0.116	0.131	22.458	507.510	15044.71	729.20	11397.50	6.24
103	6	3	174.88	174.63	1326.89	0.00	0.15	0.116	0.131	22.458	507.511	15044.72	729.20	11397.51	6.24
104	6	4	174.63	174.38	1327.04	0.00	0.15	0.116	0.131	22.458	507.511	15044.73	729.20	11397.52	6.24
105	6	5	174.38	174.13	1327.19	0.00	0.15	0.116	0.131	22.458	507.511	15044.74	729.20	11397.53	6.24
106	6	6	174.13	173.88	1327.34	0.00	0.15	0.116	0.131	22.458	507.511	15044.76	729.20	11397.54	6.24
107	6	7	173.88	173.63	1327.49	0.00	0.15	0.116	0.131	22.458	507.511	15044.77	729.20	11397.55	6.24
108	6	8	173.63	173.38	1327.64	0.00	0.15	0.116	0.131	22.458	507.511	15044.78	729.20	11397.56	6.24
109	6	9	173.38	173.13	1327.79	0.00	0.15	0.116	0.131	22.458	507.512	15044.80	729.20	11397.57	6.24
110	6	10	173.13	172.88	1327.94	0.00	0.15	0.117	0.131	22.458	507.512	15044.81	729.20	11397.58	6.24
111	6	11	172.88	172.63	1328.09	0.00	0.15	0.117	0.131	22.458	507.512	15044.82	729.20	11397.59	6.24
112	6	12	172.63	172.38	1328.24	0.00	0.15	0.117	0.131	22.458	507.512	15044.84	729.20	11397.60	6.24
113	6	13	172.38	172.13	1328.39	0.00	0.15	0.117	0.131	22.458	507.512	15044.85	729.20	11397.61	6.24

114	6	14	172.13	171.88	1328.54	0.00	0.15	0.117	0.131	22.458	507.512	15044.86	729.21	11397.62	6.24
115	6	15	171.88	171.63	1328.69	0.00	0.15	0.117	0.131	22.458	507.513	15044.88	729.21	11397.63	6.25
116	6	16	171.63	171.38	1331.24	2.40	0.15	0.117	0.131	22.458	507.516	15045.10	729.21	11397.80	6.26
117	6	17	171.38	171.13	1331.39	0.00	0.15	0.117	0.131	22.458	507.516	15045.11	729.21	11397.81	6.26
118	6	18	171.13	170.88	1331.54	0.00	0.15	0.117	0.131	22.458	507.516	15045.13	729.21	11397.82	6.26
119	6	19	170.88	170.63	1331.69	0.00	0.15	0.117	0.131	22.458	507.516	15045.14	729.21	11397.83	6.26
120	6	20	170.63	170.38	1331.84	0.00	0.15	0.117	0.131	22.458	507.516	15045.15	729.21	11397.84	6.26
121	7	1	170.38	170.13	1331.99	0.00	0.15	0.109	0.140	22.201	549.216	16095.23	783.58	12193.36	5.80
122	7	2	170.13	169.88	1332.14	0.00	0.15	0.109	0.140	22.201	549.216	16095.25	783.58	12193.37	5.80
123	7	3	169.88	169.63	1332.29	0.00	0.15	0.109	0.140	22.201	549.217	16095.26	783.58	12193.38	5.80
124	7	4	169.63	169.38	1108.14	-224.30	0.15	0.091	0.168	22.188	548.870	16075.70	783.09	12178.56	4.83
125	7	5	169.38	169.13	1332.59	224.30	0.15	0.109	0.140	22.201	549.217	16095.28	783.58	12193.39	5.80
126	7	6	169.13	168.88	1332.74	0.00	0.15	0.109	0.140	22.201	549.217	16095.29	783.58	12193.40	5.80

***** STEADY STATE SIMULATION *****

** HYDRAULICS SUMMARY **

ELE ORD	RCH NUM	ELE NUM	BEGIN LOC MILE	END LOC MILE	FLOW CFS	POINT SRCE CFS	INCR FLOW CFS	VEL FPS	TRVL TIME DAY	DEPTH FT	WIDTH FT	VOLUME K-FT-3	BOTTOM AREA K-FT-2	X-SECT AREA FT-2	DSPRSN COEF FT-2/S
127	7	7	168.88	168.63	1332.89	0.00	0.15	0.109	0.140	22.201	549.217	16095.30	783.58	12193.41	5.80
128	7	8	168.63	168.38	1333.04	0.00	0.15	0.109	0.140	22.201	549.218	16095.32	783.58	12193.42	5.80
129	7	9	168.38	168.13	1333.19	0.00	0.15	0.109	0.140	22.201	549.218	16095.33	783.58	12193.43	5.80
130	7	10	168.13	167.88	1333.34	0.00	0.15	0.109	0.140	22.201	549.218	16095.34	783.58	12193.44	5.80
131	7	11	167.88	167.63	1333.49	0.00	0.15	0.109	0.140	22.201	549.218	16095.35	783.58	12193.45	5.80
132	7	12	167.63	167.38	1333.64	0.00	0.15	0.109	0.140	22.201	549.218	16095.37	783.58	12193.46	5.80
133	7	13	167.38	167.13	1333.79	0.00	0.15	0.109	0.140	22.201	549.219	16095.38	783.58	12193.47	5.80
134	7	14	167.13	166.88	1333.94	0.00	0.15	0.109	0.140	22.201	549.219	16095.39	783.58	12193.48	5.80
135	7	15	166.88	166.63	1334.09	0.00	0.15	0.109	0.140	22.201	549.219	16095.40	783.58	12193.48	5.81
136	7	16	166.63	166.38	1334.24	0.00	0.15	0.109	0.140	22.202	549.219	16095.41	783.58	12193.49	5.81
137	7	17	166.38	166.13	1334.39	0.00	0.15	0.109	0.140	22.202	549.219	16095.42	783.58	12193.50	5.81
138	7	18	166.13	165.88	1334.54	0.00	0.15	0.109	0.140	22.202	549.220	16095.44	783.58	12193.51	5.81
139	7	19	165.88	165.63	1334.69	0.00	0.15	0.109	0.140	22.202	549.220	16095.45	783.58	12193.52	5.81
140	7	20	165.63	165.38	1334.84	0.00	0.15	0.109	0.140	22.202	549.220	16095.46	783.58	12193.53	5.81
141	8	1	165.38	165.13	1334.99	0.00	0.15	0.103	0.149	22.005	590.871	17162.63	838.04	13002.00	5.41
142	8	2	165.13	164.88	1335.14	0.00	0.15	0.103	0.149	22.005	590.871	17162.64	838.04	13002.00	5.41
143	8	3	164.88	164.63	1335.29	0.00	0.15	0.103	0.149	22.005	590.871	17162.65	838.04	13002.01	5.41
144	8	4	164.63	164.38	1335.44	0.00	0.15	0.103	0.149	22.005	590.871	17162.66	838.04	13002.02	5.41
145	8	5	164.38	164.13	1335.59	0.00	0.15	0.103	0.149	22.005	590.871	17162.67	838.04	13002.02	5.41
146	8	6	164.13	163.88	1335.74	0.00	0.15	0.103	0.149	22.005	590.872	17162.68	838.04	13002.03	5.41
147	8	7	163.88	163.63	1335.89	0.00	0.15	0.103	0.149	22.005	590.872	17162.69	838.04	13002.04	5.41
148	8	8	163.63	163.38	1336.04	0.00	0.15	0.103	0.149	22.005	590.872	17162.70	838.04	13002.04	5.41
149	8	9	163.38	163.13	1336.19	0.00	0.15	0.103	0.149	22.005	590.872	17162.71	838.04	13002.05	5.41

150	8	10	163.13	162.88	1336.34	0.00	0.15	0.103	0.149	22.005	590.872	17162.71	838.04	13002.06	5.41
151	8	11	162.88	162.63	1336.49	0.00	0.15	0.103	0.149	22.005	590.872	17162.72	838.04	13002.06	5.41
152	8	12	162.63	162.38	1336.64	0.00	0.15	0.103	0.149	22.005	590.872	17162.73	838.04	13002.07	5.41
153	8	13	162.38	162.13	1336.79	0.00	0.15	0.103	0.149	22.005	590.872	17162.74	838.04	13002.08	5.42
154	8	14	162.13	161.88	1336.94	0.00	0.15	0.103	0.149	22.005	590.873	17162.75	838.04	13002.08	5.42
155	8	15	161.88	161.63	1337.09	0.00	0.15	0.103	0.149	22.005	590.873	17162.76	838.04	13002.09	5.42
156	8	16	161.63	161.38	1337.24	0.00	0.15	0.103	0.149	22.005	590.873	17162.77	838.05	13002.10	5.42
157	8	17	161.38	161.13	1337.39	0.00	0.15	0.103	0.149	22.005	590.873	17162.78	838.05	13002.10	5.42
158	8	18	161.13	160.88	1381.25	43.71	0.15	0.106	0.144	22.007	590.911	17165.32	838.10	13004.03	5.59
159	8	19	160.88	160.63	1381.40	0.00	0.15	0.106	0.144	22.007	590.912	17165.33	838.10	13004.04	5.60
160	8	20	160.63	160.38	1381.55	0.00	0.15	0.106	0.144	22.007	590.912	17165.34	838.10	13004.05	5.60
161	9	1	160.38	160.13	1381.70	0.00	0.15	0.114	0.134	21.809	555.922	16003.98	791.39	12124.23	5.96
162	9	2	160.13	159.88	1381.85	0.00	0.15	0.114	0.134	21.809	555.922	16003.99	791.39	12124.23	5.96
163	9	3	159.88	159.63	1382.00	0.00	0.15	0.114	0.134	21.809	555.923	16003.99	791.39	12124.24	5.96
164	9	4	159.63	159.38	1405.36	23.21	0.15	0.116	0.132	21.810	555.947	16005.06	791.43	12125.05	6.06
165	9	5	159.38	159.13	1405.51	0.00	0.15	0.116	0.132	21.810	555.948	16005.07	791.43	12125.05	6.06
166	9	6	159.13	158.88	1405.66	0.00	0.15	0.116	0.132	21.810	555.948	16005.08	791.43	12125.06	6.06
167	9	7	158.88	158.63	1405.81	0.00	0.15	0.116	0.132	21.810	555.948	16005.09	791.43	12125.06	6.06
168	9	8	158.63	158.38	1405.96	0.00	0.15	0.116	0.132	21.810	555.948	16005.09	791.43	12125.07	6.06

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 5
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** HYDRAULICS SUMMARY **

ELE ORD	RCH NUM	ELE NUM	BEGIN LOC MILE	END LOC MILE	FLOW CFS	POINT SRCE CFS	INCR FLOW CFS	VEL FPS	TRVL TIME DAY	DEPTH FT	WIDTH FT	VOLUME K-FT-3	BOTTOM AREA K-FT-2	X-SECT AREA FT-2	DSPRSN COEF FT-2/S
169	9	9	158.38	158.13	1406.11	0.00	0.15	0.116	0.132	21.810	555.948	16005.10	791.43	12125.08	6.06
170	9	10	158.13	157.88	1406.26	0.00	0.15	0.116	0.132	21.810	555.948	16005.11	791.43	12125.08	6.06
171	9	11	157.88	157.63	1406.41	0.00	0.15	0.116	0.132	21.810	555.949	16005.11	791.43	12125.08	6.06
172	9	12	157.63	157.38	1406.56	0.00	0.15	0.116	0.132	21.810	555.949	16005.12	791.43	12125.09	6.06
173	9	13	157.38	157.13	1406.71	0.00	0.15	0.116	0.132	21.810	555.949	16005.13	791.43	12125.10	6.07
174	9	14	157.13	156.88	1406.86	0.00	0.15	0.116	0.132	21.810	555.949	16005.13	791.43	12125.10	6.07
175	9	15	156.88	156.63	1407.01	0.00	0.15	0.116	0.132	21.810	555.949	16005.14	791.43	12125.11	6.07
176	9	16	156.63	156.38	1407.16	0.00	0.15	0.116	0.132	21.810	555.949	16005.15	791.43	12125.11	6.07
177	9	17	156.38	156.13	1407.31	0.00	0.15	0.116	0.132	21.810	555.949	16005.15	791.43	12125.12	6.07
178	9	18	156.13	155.88	1407.46	0.00	0.15	0.116	0.132	21.810	555.950	16005.16	791.43	12125.12	6.07
179	9	19	155.88	155.63	1407.61	0.00	0.15	0.116	0.132	21.810	555.950	16005.17	791.43	12125.13	6.07
180	9	20	155.63	155.38	1407.76	0.00	0.15	0.116	0.132	21.810	555.950	16005.17	791.43	12125.13	6.07
181	10	1	155.38	155.13	1407.91	0.00	0.15	0.126	0.122	21.409	523.034	14780.73	746.92	11197.52	6.47
182	10	2	155.13	154.88	1408.06	0.00	0.15	0.126	0.121	21.409	523.034	14780.73	746.92	11197.52	6.47
183	10	3	154.88	154.63	1408.21	0.00	0.15	0.126	0.121	21.409	523.034	14780.74	746.92	11197.53	6.47
184	10	4	154.63	154.38	1408.36	0.00	0.15	0.126	0.121	21.409	523.034	14780.74	746.92	11197.53	6.47
185	10	5	154.38	154.13	1408.51	0.00	0.15	0.126	0.121	21.409	523.034	14780.75	746.92	11197.54	6.48

186	10	6	154.13	153.88	1408.66	0.00	0.15	0.126	0.121	21.409	523.034	14780.76	746.92	11197.54	6.48
187	10	7	153.88	153.63	1408.81	0.00	0.15	0.126	0.121	21.409	523.034	14780.76	746.92	11197.55	6.48
188	10	8	153.63	153.38	1409.46	0.50	0.15	0.126	0.121	21.409	523.035	14780.79	746.93	11197.57	6.48
189	10	9	153.38	153.13	1409.61	0.00	0.15	0.126	0.121	21.409	523.035	14780.79	746.93	11197.57	6.48
190	10	10	153.13	152.88	1409.76	0.00	0.15	0.126	0.121	21.409	523.035	14780.80	746.93	11197.58	6.48
191	10	11	152.88	152.63	1409.91	0.00	0.15	0.126	0.121	21.409	523.035	14780.81	746.93	11197.58	6.48
192	10	12	152.63	152.38	1410.06	0.00	0.15	0.126	0.121	21.409	523.035	14780.81	746.93	11197.58	6.48
193	10	13	152.38	152.13	1410.21	0.00	0.15	0.126	0.121	21.409	523.035	14780.82	746.93	11197.59	6.48
194	10	14	152.13	151.88	1410.36	0.00	0.15	0.126	0.121	21.409	523.035	14780.82	746.93	11197.59	6.48
195	10	15	151.88	151.63	1410.51	0.00	0.15	0.126	0.121	21.409	523.035	14780.83	746.93	11197.60	6.48
196	10	16	151.63	151.38	1410.66	0.00	0.15	0.126	0.121	21.409	523.035	14780.84	746.93	11197.60	6.49
197	10	17	151.38	151.13	1410.81	0.00	0.15	0.126	0.121	21.409	523.036	14780.84	746.93	11197.61	6.49
198	10	18	151.13	150.88	1410.96	0.00	0.15	0.126	0.121	21.409	523.036	14780.85	746.93	11197.61	6.49
199	10	19	150.88	150.63	1411.11	0.00	0.15	0.126	0.121	21.409	523.036	14780.85	746.93	11197.62	6.49
200	10	20	150.63	150.38	1411.26	0.00	0.15	0.126	0.121	21.409	523.036	14780.86	746.93	11197.62	6.49
201	11	1	150.38	150.13	1411.41	0.00	0.15	0.136	0.112	21.129	489.711	13658.12	702.20	10347.06	6.95
202	11	2	150.13	149.88	1411.56	0.00	0.15	0.136	0.112	21.129	489.711	13658.12	702.20	10347.06	6.95
203	11	3	149.88	149.63	1411.71	0.00	0.15	0.136	0.112	21.129	489.711	13658.13	702.20	10347.06	6.95
204	11	4	149.63	149.38	1411.86	0.00	0.15	0.136	0.112	21.129	489.711	13658.13	702.20	10347.07	6.95
205	11	5	149.38	149.13	1412.01	0.00	0.15	0.136	0.112	21.129	489.711	13658.13	702.20	10347.07	6.95
206	11	6	149.13	148.88	1412.16	0.00	0.15	0.136	0.112	21.129	489.711	13658.14	702.20	10347.07	6.95
207	11	7	148.88	148.63	1412.31	0.00	0.15	0.136	0.112	21.129	489.711	13658.14	702.20	10347.08	6.95
208	11	8	148.63	148.38	1412.46	0.00	0.15	0.137	0.112	21.129	489.711	13658.15	702.20	10347.08	6.95
209	11	9	148.38	148.13	1412.61	0.00	0.15	0.137	0.112	21.129	489.712	13658.15	702.20	10347.08	6.95
210	11	10	148.13	147.88	1412.76	0.00	0.15	0.137	0.112	21.129	489.712	13658.15	702.20	10347.09	6.95

***** STEADY STATE SIMULATION *****

** HYDRAULICS SUMMARY **

ELE ORD	RCH NUM	ELE NUM	BEGIN LOC MILE	END LOC MILE	FLOW CFS	POINT SRCE CFS	INCR FLOW CFS	VEL FPS	TRVL TIME DAY	DEPTH FT	WIDTH FT	VOLUME K-FT-3	BOTTOM AREA K-FT-2	X-SECT AREA FT-2	DSPRSN COEF FT-2/S
211	11	11	147.88	147.63	1412.91	0.00	0.15	0.137	0.112	21.129	489.712	13658.16	702.20	10347.09	6.95
212	11	12	147.63	147.38	1413.06	0.00	0.15	0.137	0.112	21.129	489.712	13658.16	702.20	10347.09	6.95
213	11	13	147.38	147.13	1413.21	0.00	0.15	0.137	0.112	21.129	489.712	13658.17	702.20	10347.10	6.95
214	11	14	147.13	146.88	1413.36	0.00	0.15	0.137	0.112	21.129	489.712	13658.17	702.20	10347.10	6.96
215	11	15	146.88	146.63	1413.51	0.00	0.15	0.137	0.112	21.129	489.712	13658.18	702.20	10347.10	6.96
216	11	16	146.63	146.38	1413.66	0.00	0.15	0.137	0.112	21.129	489.712	13658.18	702.20	10347.10	6.96
217	11	17	146.38	146.13	1413.81	0.00	0.15	0.137	0.112	21.129	489.712	13658.18	702.20	10347.11	6.96
218	11	18	146.13	145.88	1413.96	0.00	0.15	0.137	0.112	21.129	489.712	13658.19	702.20	10347.11	6.96
219	11	19	145.88	145.63	1414.11	0.00	0.15	0.137	0.112	21.129	489.712	13658.19	702.20	10347.12	6.96
220	11	20	145.63	145.38	1414.27	0.00	0.15	0.137	0.112	21.129	489.712	13658.20	702.20	10347.12	6.96
221	12	1	145.38	145.13	1414.42	0.00	0.15	0.113	0.135	26.762	467.924	16529.68	688.31	12522.48	7.00

222	12	2	145.13	144.88	1414.57	0.00	0.15	0.113	0.135	26.762	467.924	16529.68	688.31	12522.48	7.00
223	12	3	144.88	144.63	1414.72	0.00	0.15	0.113	0.135	26.762	467.924	16529.68	688.31	12522.49	7.00
224	12	4	144.63	144.38	1414.87	0.00	0.15	0.113	0.135	26.762	467.924	16529.69	688.31	12522.49	7.00
225	12	5	144.38	144.13	1415.02	0.00	0.15	0.113	0.135	26.762	467.924	16529.69	688.31	12522.49	7.01
226	12	6	144.13	143.88	1415.17	0.00	0.15	0.113	0.135	26.762	467.924	16529.70	688.31	12522.50	7.01
227	12	7	143.88	143.63	1415.32	0.00	0.15	0.113	0.135	26.762	467.924	16529.70	688.31	12522.50	7.01
228	12	8	143.63	143.38	1415.47	0.00	0.15	0.113	0.135	26.762	467.924	16529.70	688.31	12522.50	7.01
229	12	9	143.38	143.13	1415.62	0.00	0.15	0.113	0.135	26.762	467.925	16529.71	688.31	12522.50	7.01
230	12	10	143.13	142.88	1415.77	0.00	0.15	0.113	0.135	26.762	467.925	16529.71	688.31	12522.51	7.01
231	12	11	142.88	142.63	1415.92	0.00	0.15	0.113	0.135	26.762	467.925	16529.71	688.31	12522.51	7.01
232	12	12	142.63	142.38	1416.07	0.00	0.15	0.113	0.135	26.762	467.925	16529.72	688.31	12522.51	7.01
233	12	13	142.38	142.13	1416.22	0.00	0.15	0.113	0.135	26.762	467.925	16529.72	688.31	12522.52	7.01
234	12	14	142.13	141.88	1416.37	0.00	0.15	0.113	0.135	26.762	467.925	16529.73	688.31	12522.52	7.01
235	12	15	141.88	141.63	1416.52	0.00	0.15	0.113	0.135	26.762	467.925	16529.73	688.31	12522.52	7.01
236	12	16	141.63	141.38	1416.67	0.00	0.15	0.113	0.135	26.762	467.925	16529.74	688.31	12522.53	7.01
237	12	17	141.38	141.13	1416.82	0.00	0.15	0.113	0.135	26.762	467.925	16529.74	688.31	12522.53	7.01
238	12	18	141.13	140.88	1416.97	0.00	0.15	0.113	0.135	26.762	467.925	16529.74	688.31	12522.53	7.02
239	12	19	140.88	140.63	1417.12	0.00	0.15	0.113	0.135	26.762	467.925	16529.75	688.31	12522.54	7.02
240	12	20	140.63	140.38	1417.27	0.00	0.15	0.113	0.135	26.762	467.925	16529.75	688.31	12522.54	7.02
241	13	1	140.38	140.13	1417.42	0.00	0.15	0.098	0.156	32.487	444.554	19063.53	672.58	14442.06	7.15
242	13	2	140.13	139.88	1417.57	0.00	0.15	0.098	0.156	32.487	444.554	19063.53	672.58	14442.07	7.15
243	13	3	139.88	139.63	1417.72	0.00	0.15	0.098	0.156	32.487	444.554	19063.53	672.58	14442.07	7.15
244	13	4	139.63	139.38	1417.87	0.00	0.15	0.098	0.156	32.487	444.554	19063.53	672.58	14442.07	7.15
245	13	5	139.38	139.13	1418.02	0.00	0.15	0.098	0.156	32.487	444.554	19063.54	672.58	14442.07	7.15
246	13	6	139.13	138.88	1418.17	0.00	0.15	0.098	0.156	32.487	444.554	19063.54	672.58	14442.07	7.15
247	13	7	138.88	138.63	1418.32	0.00	0.15	0.098	0.156	32.487	444.554	19063.54	672.58	14442.08	7.16
248	13	8	138.63	138.38	1418.47	0.00	0.15	0.098	0.156	32.487	444.554	19063.54	672.58	14442.08	7.16
249	13	9	138.38	138.13	1418.62	0.00	0.15	0.098	0.156	32.487	444.554	19063.55	672.58	14442.08	7.16
250	13	10	138.13	137.88	1418.77	0.00	0.15	0.098	0.156	32.487	444.554	19063.55	672.58	14442.08	7.16
251	13	11	137.88	137.63	1418.92	0.00	0.15	0.098	0.156	32.487	444.554	19063.55	672.58	14442.09	7.16
252	13	12	137.63	137.38	1419.07	0.00	0.15	0.098	0.155	32.487	444.554	19063.56	672.58	14442.09	7.16

***** STEADY STATE SIMULATION *****

** HYDRAULICS SUMMARY **

ELE ORD	RCH NUM	ELE NUM	BEGIN LOC MILE	END LOC MILE	FLOW CFS	POINT SRCE CFS	INCR FLOW CFS	VEL FPS	TRVL TIME DAY	DEPTH FT	WIDTH FT	VOLUME K-FT-3	BOTTOM AREA K-FT-2	X-SECT AREA FT-2	DSPRSN COEF FT-2/S
253	13	13	137.38	137.13	1419.22	0.00	0.15	0.098	0.155	32.487	444.554	19063.56	672.58	14442.09	7.16
254	13	14	137.13	136.88	1419.37	0.00	0.15	0.098	0.155	32.487	444.554	19063.56	672.58	14442.09	7.16
255	13	15	136.88	136.63	1419.52	0.00	0.15	0.098	0.155	32.487	444.554	19063.56	672.58	14442.09	7.16
256	13	16	136.63	136.38	1419.67	0.00	0.15	0.098	0.155	32.487	444.554	19063.57	672.58	14442.10	7.16
257	13	17	136.38	136.13	1419.82	0.00	0.15	0.098	0.155	32.487	444.554	19063.57	672.58	14442.10	7.16
258	13	18	136.13	135.88	1419.97	0.00	0.15	0.098	0.155	32.487	444.554	19063.57	672.58	14442.10	7.16
259	13	19	135.88	135.63	1420.12	0.00	0.15	0.098	0.155	32.487	444.555	19063.58	672.58	14442.10	7.16

260	13	20	135.63	135.38	1420.27	0.00	0.15	0.098	0.155	32.487	444.555	19063.58	672.58	14442.11	7.17
261	14	1	135.38	135.13	1420.42	0.00	0.15	0.096	0.160	29.912	497.037	19625.10	735.06	14867.50	6.50
262	14	2	135.13	134.88	1420.57	0.00	0.15	0.096	0.160	29.912	497.037	19625.11	735.06	14867.50	6.50
263	14	3	134.88	134.63	1420.72	0.00	0.15	0.096	0.160	29.912	497.037	19625.11	735.06	14867.50	6.50
264	14	4	134.63	134.38	1420.87	0.00	0.15	0.096	0.160	29.912	497.037	19625.11	735.06	14867.51	6.50
265	14	5	134.38	134.13	1421.02	0.00	0.15	0.096	0.160	29.912	497.037	19625.11	735.06	14867.51	6.50
266	14	6	134.13	133.88	1421.17	0.00	0.15	0.096	0.160	29.912	497.037	19625.11	735.06	14867.51	6.50
267	14	7	133.88	133.63	1421.32	0.00	0.15	0.096	0.160	29.912	497.037	19625.12	735.06	14867.51	6.50
268	14	8	133.63	133.38	1421.47	0.00	0.15	0.096	0.160	29.912	497.037	19625.12	735.06	14867.51	6.50
269	14	9	133.38	133.13	1421.62	0.00	0.15	0.096	0.160	29.912	497.037	19625.12	735.06	14867.51	6.50
270	14	10	133.13	132.88	1421.77	0.00	0.15	0.096	0.160	29.912	497.037	19625.12	735.06	14867.52	6.50
271	14	11	132.88	132.63	1421.92	0.00	0.15	0.096	0.160	29.912	497.037	19625.13	735.06	14867.52	6.51
272	14	12	132.63	132.38	1422.07	0.00	0.15	0.096	0.160	29.912	497.037	19625.13	735.06	14867.52	6.51
273	14	13	132.38	132.13	1422.22	0.00	0.15	0.096	0.160	29.912	497.037	19625.13	735.06	14867.52	6.51
274	14	14	132.13	131.88	1422.37	0.00	0.15	0.096	0.160	29.912	497.037	19625.13	735.06	14867.52	6.51
275	14	15	131.88	131.63	1422.52	0.00	0.15	0.096	0.160	29.912	497.037	19625.13	735.06	14867.53	6.51
276	14	16	131.63	131.38	1422.67	0.00	0.15	0.096	0.160	29.912	497.038	19625.14	735.06	14867.53	6.51
277	14	17	131.38	131.13	1422.82	0.00	0.15	0.096	0.160	29.912	497.038	19625.14	735.06	14867.53	6.51
278	14	18	131.13	130.88	1422.97	0.00	0.15	0.096	0.160	29.912	497.038	19625.14	735.06	14867.53	6.51
279	14	19	130.88	130.63	1423.12	0.00	0.15	0.096	0.160	29.912	497.038	19625.14	735.06	14867.53	6.51
280	14	20	130.63	130.38	1423.27	0.00	0.15	0.096	0.160	29.912	497.038	19625.14	735.06	14867.53	6.51
281	15	1	130.38	130.13	1423.42	0.00	0.15	0.095	0.161	27.330	548.494	19787.51	796.16	14990.54	5.99
282	15	2	130.13	129.88	1423.57	0.00	0.15	0.095	0.161	27.330	548.494	19787.51	796.16	14990.54	5.99
283	15	3	129.88	129.63	1423.72	0.00	0.15	0.095	0.161	27.330	548.494	19787.51	796.16	14990.54	5.99
284	15	4	129.63	129.38	1423.87	0.00	0.15	0.095	0.161	27.330	548.494	19787.51	796.16	14990.54	5.99
285	15	5	129.38	129.13	1424.02	0.00	0.15	0.095	0.161	27.330	548.494	19787.51	796.16	14990.54	5.99
286	15	6	129.13	128.88	1424.17	0.00	0.15	0.095	0.161	27.330	548.494	19787.51	796.16	14990.54	5.99
287	15	7	128.88	128.63	1424.32	0.00	0.15	0.095	0.161	27.330	548.494	19787.52	796.16	14990.54	5.99
288	15	8	128.63	128.38	1424.47	0.00	0.15	0.095	0.161	27.330	548.494	19787.52	796.16	14990.54	6.00
289	15	9	128.38	128.13	1424.62	0.00	0.15	0.095	0.161	27.330	548.494	19787.52	796.16	14990.54	6.00
290	15	10	128.13	127.88	1424.77	0.00	0.15	0.095	0.161	27.330	548.494	19787.52	796.16	14990.54	6.00
291	15	11	127.88	127.63	1424.92	0.00	0.15	0.095	0.161	27.330	548.494	19787.52	796.16	14990.54	6.00
292	15	12	127.63	127.38	1425.07	0.00	0.15	0.095	0.161	27.330	548.494	19787.52	796.16	14990.54	6.00
293	15	13	127.38	127.13	1425.22	0.00	0.15	0.095	0.161	27.330	548.495	19787.52	796.16	14990.55	6.00
294	15	14	127.13	126.88	1425.37	0.00	0.15	0.095	0.161	27.330	548.495	19787.52	796.16	14990.55	6.00

***** STEADY STATE SIMULATION *****

** HYDRAULICS SUMMARY **

ELE ORD	RCH NUM	ELE NUM	BEGIN LOC MILE	END LOC MILE	FLOW CFS	POINT SRCE CFS	INCR FLOW CFS	VEL FPS	TRVL TIME DAY	DEPTH FT	WIDTH FT	VOLUME K-FT-3	BOTTOM AREA K-FT-2	X-SECT AREA FT-2	DSPRSN COEF FT-2/S
295	15	15	126.88	126.63	1425.52	0.00	0.15	0.095	0.161	27.330	548.495	19787.53	796.16	14990.55	6.00

296	15	16	126.63	126.38	1425.67	0.00	0.15	0.095	0.161	27.330	548.495	19787.53	796.16	14990.55	6.00
297	15	17	126.38	126.13	1425.82	0.00	0.15	0.095	0.161	27.330	548.495	19787.53	796.17	14990.55	6.00
298	15	18	126.13	125.88	1425.97	0.00	0.15	0.095	0.161	27.330	548.495	19787.53	796.17	14990.55	6.00
299	15	19	125.88	125.63	1426.12	0.00	0.15	0.095	0.161	27.330	548.495	19787.53	796.17	14990.55	6.00
300	15	20	125.63	125.38	1426.27	0.00	0.15	0.095	0.161	27.330	548.495	19787.53	796.17	14990.55	6.00
301	16	1	125.38	125.13	1426.42	0.00	0.15	0.096	0.159	24.738	601.046	19626.71	858.69	14868.71	5.57
302	16	2	125.13	124.88	1426.57	0.00	0.15	0.096	0.159	24.738	601.046	19626.71	858.69	14868.72	5.57
303	16	3	124.88	124.63	1426.72	0.00	0.15	0.096	0.159	24.738	601.046	19626.71	858.69	14868.72	5.57
304	16	4	124.63	124.38	1426.87	0.00	0.15	0.096	0.159	24.738	601.046	19626.71	858.69	14868.72	5.57
305	16	5	124.38	124.13	1427.02	0.00	0.15	0.096	0.159	24.738	601.046	19626.71	858.69	14868.72	5.57
306	16	6	124.13	123.88	1427.17	0.00	0.15	0.096	0.159	24.738	601.046	19626.71	858.69	14868.72	5.57
307	16	7	123.88	123.63	1427.32	0.00	0.15	0.096	0.159	24.738	601.046	19626.71	858.69	14868.72	5.57
308	16	8	123.63	123.38	1427.47	0.00	0.15	0.096	0.159	24.738	601.046	19626.71	858.69	14868.72	5.57
309	16	9	123.38	123.13	1427.62	0.00	0.15	0.096	0.159	24.738	601.046	19626.71	858.69	14868.72	5.58
310	16	10	123.13	122.88	1427.77	0.00	0.15	0.096	0.159	24.738	601.046	19626.71	858.69	14868.72	5.58
311	16	11	122.88	122.63	1427.92	0.00	0.15	0.096	0.159	24.738	601.046	19626.71	858.69	14868.72	5.58
312	16	12	122.63	122.38	1428.07	0.00	0.15	0.096	0.159	24.738	601.046	19626.72	858.69	14868.72	5.58
313	16	13	122.38	122.13	1428.22	0.00	0.15	0.096	0.159	24.738	601.046	19626.72	858.69	14868.72	5.58
314	16	14	122.13	121.88	1428.37	0.00	0.15	0.096	0.159	24.738	601.046	19626.72	858.69	14868.73	5.58
315	16	15	121.88	121.63	1428.52	0.00	0.15	0.096	0.159	24.738	601.046	19626.72	858.69	14868.73	5.58
316	16	16	121.63	121.38	1428.67	0.00	0.15	0.096	0.159	24.738	601.046	19626.72	858.69	14868.73	5.58
317	16	17	121.38	121.13	1428.82	0.00	0.15	0.096	0.159	24.738	601.046	19626.72	858.69	14868.73	5.58
318	16	18	121.13	120.88	1428.97	0.00	0.15	0.096	0.159	24.738	601.046	19626.72	858.69	14868.73	5.58
319	16	19	120.88	120.63	1429.12	0.00	0.15	0.096	0.159	24.738	601.046	19626.72	858.69	14868.73	5.58
320	16	20	120.63	120.38	1429.27	0.00	0.15	0.096	0.159	24.738	601.046	19626.72	858.69	14868.73	5.58
321	17	1	120.38	120.13	1429.52	0.00	0.25	0.098	0.156	22.509	647.147	19227.94	913.66	14566.62	5.27
322	17	2	120.13	119.88	1429.77	0.00	0.25	0.098	0.156	22.509	647.147	19227.94	913.66	14566.62	5.27
323	17	3	119.88	119.63	1430.02	0.00	0.25	0.098	0.156	22.509	647.147	19227.94	913.66	14566.62	5.27
324	17	4	119.63	119.38	1430.27	0.00	0.25	0.098	0.156	22.509	647.147	19227.94	913.66	14566.62	5.27
325	17	5	119.38	119.13	1430.52	0.00	0.25	0.098	0.156	22.509	647.147	19227.94	913.66	14566.62	5.27
326	17	6	119.13	118.88	1430.77	0.00	0.25	0.098	0.156	22.509	647.147	19227.94	913.66	14566.62	5.27
327	17	7	118.88	118.63	1431.02	0.00	0.25	0.098	0.156	22.509	647.147	19227.94	913.66	14566.62	5.27
328	17	8	118.63	118.38	1431.27	0.00	0.25	0.098	0.155	22.509	647.147	19227.94	913.66	14566.62	5.27
329	17	9	118.38	118.13	1431.52	0.00	0.25	0.098	0.155	22.509	647.147	19227.95	913.66	14566.62	5.27
330	17	10	118.13	117.88	1431.77	0.00	0.25	0.098	0.155	22.509	647.147	19227.95	913.66	14566.62	5.28
331	17	11	117.88	117.63	1432.02	0.00	0.25	0.098	0.155	22.509	647.147	19227.95	913.66	14566.62	5.28
332	17	12	117.63	117.38	1432.27	0.00	0.25	0.098	0.155	22.509	647.147	19227.95	913.66	14566.62	5.28

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 9
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** REACTION COEFFICIENT SUMMARY **

RCH	ELE	DO	K2	OXYGN	BOD	BOD	SOD	ORGN	ORGN	NH3	NH3	NO2	ORGP	ORGP	DISP	COLI	ANC	ANC	ANC

NUM	NUM	SAT MG/L	OPT	REAIR 1/DAY	DECAY 1/DAY	SETT 1/DAY	RATE G/F2D	DECAY 1/DAY	SETT 1/DAY	DECAY 1/DAY	SRCE MG/F2D	DECAY 1/DAY	DECAY 1/DAY	SETT 1/DAY	SRCE MG/F2D	DECAY 1/DAY	DECAY 1/DAY	SETT 1/DAY	SRCE MG/F2D
1	1	9.38	1	0.22	0.03	0.00	0.00	0.01	0.00	0.18	0.00	0.23	0.01	0.00	0.00	0.00	0.00	0.00	0.00
1	2	9.38	1	0.22	0.03	0.00	0.00	0.01	0.00	0.18	0.00	0.23	0.01	0.00	0.00	0.00	0.00	0.00	0.00
1	3	9.38	1	0.22	0.03	0.00	0.00	0.01	0.00	0.18	0.00	0.23	0.01	0.00	0.00	0.00	0.00	0.00	0.00
1	4	9.39	1	0.22	0.03	0.00	0.00	0.01	0.00	0.18	0.00	0.23	0.01	0.00	0.00	0.00	0.00	0.00	0.00
1	5	9.39	1	0.22	0.03	0.00	0.00	0.01	0.00	0.18	0.00	0.23	0.01	0.00	0.00	0.00	0.00	0.00	0.00
1	6	9.39	1	0.22	0.03	0.00	0.00	0.01	0.00	0.18	0.00	0.23	0.01	0.00	0.00	0.00	0.00	0.00	0.00
1	7	9.39	1	0.22	0.03	0.00	0.00	0.01	0.00	0.18	0.00	0.23	0.01	0.00	0.00	0.00	0.00	0.00	0.00
1	8	9.39	1	0.22	0.03	0.00	0.00	0.01	0.00	0.18	0.00	0.23	0.01	0.00	0.00	0.00	0.00	0.00	0.00
1	9	9.39	1	0.22	0.03	0.00	0.00	0.01	0.00	0.18	0.00	0.23	0.01	0.00	0.00	0.00	0.00	0.00	0.00
1	10	9.39	1	0.22	0.03	0.00	0.00	0.01	0.00	0.18	0.00	0.23	0.01	0.00	0.00	0.00	0.00	0.00	0.00
1	11	9.39	1	0.22	0.03	0.00	0.00	0.01	0.00	0.18	0.00	0.23	0.01	0.00	0.00	0.00	0.00	0.00	0.00
1	12	9.39	1	0.22	0.03	0.00	0.00	0.01	0.00	0.18	0.00	0.23	0.01	0.00	0.00	0.00	0.00	0.00	0.00
1	13	9.39	1	0.22	0.03	0.00	0.00	0.01	0.00	0.18	0.00	0.23	0.01	0.00	0.00	0.00	0.00	0.00	0.00
1	14	9.40	1	0.22	0.03	0.00	0.00	0.01	0.00	0.18	0.00	0.23	0.01	0.00	0.00	0.00	0.00	0.00	0.00
1	15	9.40	1	0.22	0.03	0.00	0.00	0.01	0.00	0.18	0.00	0.23	0.01	0.00	0.00	0.00	0.00	0.00	0.00
1	16	9.40	1	0.22	0.03	0.00	0.00	0.01	0.00	0.18	0.00	0.23	0.01	0.00	0.00	0.00	0.00	0.00	0.00
1	17	9.40	1	0.22	0.03	0.00	0.00	0.01	0.00	0.18	0.00	0.23	0.01	0.00	0.00	0.00	0.00	0.00	0.00
1	18	9.40	1	0.22	0.03	0.00	0.00	0.01	0.00	0.18	0.00	0.23	0.01	0.00	0.00	0.00	0.00	0.00	0.00
1	19	9.40	1	0.22	0.03	0.00	0.00	0.01	0.00	0.18	0.00	0.23	0.01	0.00	0.00	0.00	0.00	0.00	0.00
1	20	9.40	1	0.22	0.03	0.00	0.00	0.01	0.00	0.18	0.00	0.23	0.01	0.00	0.00	0.00	0.00	0.00	0.00
2	1	9.40	1	0.22	0.03	0.00	0.00	0.01	0.00	0.18	0.00	0.23	0.01	0.00	0.00	0.00	0.00	0.00	0.00
2	2	9.40	1	0.23	0.03	0.00	0.00	0.01	0.00	0.18	0.00	0.23	0.01	0.00	0.00	0.00	0.00	0.00	0.00
2	3	9.40	1	0.23	0.03	0.00	0.00	0.01	0.00	0.18	0.00	0.23	0.01	0.00	0.00	0.00	0.00	0.00	0.00
2	4	9.41	1	0.23	0.03	0.00	0.00	0.01	0.00	0.18	0.00	0.23	0.01	0.00	0.00	0.00	0.00	0.00	0.00
2	5	9.41	1	0.23	0.03	0.00	0.00	0.01	0.00	0.18	0.00	0.23	0.01	0.00	0.00	0.00	0.00	0.00	0.00
2	6	9.41	1	0.23	0.03	0.00	0.00	0.01	0.00	0.18	0.00	0.23	0.01	0.00	0.00	0.00	0.00	0.00	0.00
2	7	9.41	1	0.23	0.03	0.00	0.00	0.01	0.00	0.18	0.00	0.23	0.01	0.00	0.00	0.00	0.00	0.00	0.00
2	8	9.44	1	0.23	0.03	0.00	0.00	0.01	0.00	0.18	0.00	0.23	0.01	0.00	0.00	0.00	0.00	0.00	0.00
2	9	9.44	1	0.23	0.03	0.00	0.00	0.01	0.00	0.18	0.00	0.23	0.01	0.00	0.00	0.00	0.00	0.00	0.00
2	10	9.43	1	0.23	0.03	0.00	0.00	0.01	0.00	0.18	0.00	0.23	0.01	0.00	0.00	0.00	0.00	0.00	0.00
2	11	9.41	1	0.23	0.03	0.00	0.00	0.01	0.00	0.18	0.00	0.23	0.01	0.00	0.00	0.00	0.00	0.00	0.00
2	12	8.37	1	0.27	0.04	0.01	0.00	0.02	0.00	0.27	0.00	0.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00
2	13	8.38	1	0.27	0.04	0.01	0.00	0.02	0.00	0.27	0.00	0.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00
2	14	8.39	1	0.27	0.04	0.01	0.00	0.02	0.00	0.27	0.00	0.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00
2	15	8.39	1	0.27	0.04	0.01	0.00	0.02	0.00	0.27	0.00	0.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00
2	16	8.40	1	0.26	0.04	0.01	0.00	0.02	0.00	0.27	0.00	0.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00
2	17	8.40	1	0.26	0.04	0.01	0.00	0.02	0.00	0.27	0.00	0.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00
2	18	8.41	1	0.26	0.04	0.01	0.00	0.02	0.00	0.26	0.00	0.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00
2	19	8.41	1	0.26	0.04	0.01	0.00	0.02	0.00	0.26	0.00	0.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00
2	20	8.42	1	0.26	0.04	0.01	0.00	0.02	0.00	0.26	0.00	0.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00
3	1	8.42	1	0.27	0.04	0.01	0.00	0.02	0.00	0.26	0.00	0.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00
3	2	8.43	1	0.29	0.04	0.01	0.00	0.02	0.00	0.26	0.00	0.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00

QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** REACTION COEFFICIENT SUMMARY **

RCH NUM	ELE NUM	DO SAT MG/L	K2 OPT	OXYGN REAIR 1/DAY	BOD DECAY 1/DAY	BOD SETT 1/DAY	SOD RATE G/F2D	ORGN DECAY 1/DAY	ORGN SETT 1/DAY	NH3 DECAY 1/DAY	NH3 SRCE MG/F2D	NO2 DECAY 1/DAY	ORGP DECAY 1/DAY	ORGP SETT 1/DAY	DISP SRCE MG/F2D	COLI DECAY 1/DAY	ANC DECAY 1/DAY	ANC SETT 1/DAY	ANC SRCE MG/F2D
3	3	8.43	1	0.29	0.04	0.01	0.00	0.02	0.00	0.26	0.00	0.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00
3	4	8.44	1	0.29	0.04	0.01	0.00	0.02	0.00	0.26	0.00	0.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00
3	5	8.44	1	0.28	0.04	0.01	0.00	0.02	0.00	0.26	0.00	0.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00
3	6	8.45	1	0.28	0.04	0.01	0.00	0.02	0.00	0.26	0.00	0.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00
3	7	8.46	1	0.28	0.04	0.01	0.00	0.02	0.00	0.26	0.00	0.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00
3	8	8.46	1	0.28	0.04	0.01	0.00	0.02	0.00	0.26	0.00	0.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00
3	9	8.47	1	0.28	0.04	0.01	0.00	0.02	0.00	0.26	0.00	0.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00
3	10	8.48	1	0.28	0.04	0.01	0.00	0.02	0.00	0.26	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
3	11	8.49	1	0.28	0.04	0.01	0.00	0.02	0.00	0.26	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
3	12	8.49	1	0.28	0.04	0.01	0.00	0.02	0.00	0.25	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
3	13	8.50	1	0.28	0.04	0.01	0.00	0.02	0.00	0.25	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
3	14	8.50	1	0.28	0.04	0.01	0.00	0.02	0.00	0.25	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
3	15	8.51	1	0.28	0.04	0.01	0.00	0.02	0.00	0.25	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
3	16	8.51	1	0.28	0.04	0.01	0.00	0.02	0.00	0.25	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
3	17	8.52	1	0.28	0.04	0.01	0.00	0.02	0.00	0.25	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
3	18	8.52	1	0.28	0.04	0.01	0.00	0.02	0.00	0.25	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
3	19	8.53	1	0.28	0.04	0.01	0.00	0.02	0.00	0.25	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
3	20	8.53	1	0.28	0.04	0.01	0.00	0.02	0.00	0.25	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
4	1	8.54	1	0.25	0.04	0.01	0.00	0.02	0.00	0.25	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
4	2	8.55	1	0.21	0.04	0.01	0.00	0.02	0.00	0.25	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
4	3	8.55	1	0.21	0.04	0.01	0.00	0.02	0.00	0.25	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
4	4	8.56	1	0.21	0.04	0.01	0.00	0.02	0.00	0.25	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
4	5	8.56	1	0.21	0.04	0.01	0.00	0.02	0.00	0.25	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
4	6	8.57	1	0.21	0.04	0.01	0.00	0.02	0.00	0.25	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
4	7	8.57	1	0.21	0.04	0.01	0.00	0.02	0.00	0.25	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
4	8	8.58	1	0.21	0.04	0.01	0.00	0.02	0.00	0.25	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
4	9	8.58	1	0.21	0.04	0.01	0.00	0.02	0.00	0.24	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
4	10	8.59	1	0.21	0.04	0.01	0.00	0.02	0.00	0.24	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
4	11	8.59	1	0.21	0.04	0.01	0.00	0.01	0.00	0.24	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
4	12	8.60	1	0.21	0.04	0.01	0.00	0.01	0.00	0.24	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
4	13	8.60	1	0.21	0.04	0.01	0.00	0.01	0.00	0.24	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
4	14	8.61	1	0.21	0.04	0.01	0.00	0.01	0.00	0.24	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
4	15	8.61	1	0.21	0.04	0.01	0.00	0.01	0.00	0.24	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
4	16	8.62	1	0.21	0.04	0.01	0.00	0.01	0.00	0.24	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
4	17	8.63	1	0.21	0.04	0.01	0.00	0.01	0.00	0.24	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
4	18	8.63	1	0.21	0.04	0.01	0.00	0.01	0.00	0.24	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
4	19	8.64	1	0.21	0.04	0.01	0.00	0.01	0.00	0.24	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
4	20	8.64	1	0.21	0.04	0.01	0.00	0.01	0.00	0.24	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00

5	1	8.65	1	0.19	0.04	0.01	0.00	0.01	0.00	0.24	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
5	2	8.65	1	0.17	0.04	0.01	0.00	0.01	0.00	0.24	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
5	3	8.66	1	0.17	0.04	0.01	0.00	0.01	0.00	0.24	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
5	4	8.66	1	0.17	0.04	0.01	0.00	0.01	0.00	0.24	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 11
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** REACTION COEFFICIENT SUMMARY **

RCH NUM	ELE NUM	DO SAT MG/L	K2 OPT	OXYGN REAIR 1/DAY	BOD DECAY 1/DAY	BOD SETT 1/DAY	SOD RATE G/F2D	ORGN DECAY 1/DAY	ORGN SETT 1/DAY	NH3 DECAY 1/DAY	NH3 SRCE MG/F2D	NO2 DECAY 1/DAY	ORGP DECAY 1/DAY	ORGP SETT 1/DAY	DISP SRCE MG/F2D	COLI DECAY 1/DAY	ANC DECAY 1/DAY	ANC SETT 1/DAY	ANC SRCE MG/F2D
5	5	8.67	1	0.17	0.04	0.01	0.00	0.01	0.00	0.24	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
5	6	8.67	1	0.16	0.04	0.01	0.00	0.01	0.00	0.24	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
5	7	8.68	1	0.16	0.04	0.01	0.00	0.01	0.00	0.24	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
5	8	8.68	1	0.16	0.04	0.01	0.00	0.01	0.00	0.23	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
5	9	8.69	1	0.16	0.04	0.01	0.00	0.01	0.00	0.23	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
5	10	8.69	1	0.16	0.04	0.01	0.00	0.01	0.00	0.23	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
5	11	8.70	1	0.16	0.04	0.01	0.00	0.01	0.00	0.23	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
5	12	8.70	1	0.16	0.04	0.01	0.00	0.01	0.00	0.23	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
5	13	8.71	1	0.16	0.04	0.01	0.00	0.01	0.00	0.23	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
5	14	8.71	1	0.16	0.04	0.01	0.00	0.01	0.00	0.23	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
5	15	8.72	1	0.16	0.04	0.01	0.00	0.01	0.00	0.23	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
5	16	8.72	1	0.16	0.04	0.01	0.00	0.01	0.00	0.23	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
5	17	8.73	1	0.16	0.04	0.01	0.00	0.01	0.00	0.23	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
5	18	8.73	1	0.16	0.04	0.01	0.00	0.01	0.00	0.23	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
5	19	8.74	1	0.16	0.04	0.01	0.00	0.01	0.00	0.23	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
5	20	8.74	1	0.16	0.04	0.01	0.00	0.01	0.00	0.23	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
6	1	8.75	1	0.16	0.04	0.01	0.00	0.01	0.00	0.23	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
6	2	8.75	1	0.16	0.04	0.01	0.00	0.01	0.00	0.23	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
6	3	8.76	1	0.16	0.04	0.01	0.00	0.01	0.00	0.23	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
6	4	8.76	1	0.16	0.04	0.01	0.00	0.01	0.00	0.23	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
6	5	8.77	1	0.16	0.04	0.01	0.00	0.01	0.00	0.23	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
6	6	8.77	1	0.16	0.04	0.01	0.00	0.01	0.00	0.23	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
6	7	8.78	1	0.16	0.04	0.01	0.00	0.01	0.00	0.23	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
6	8	8.78	1	0.16	0.04	0.01	0.00	0.01	0.00	0.23	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
6	9	8.79	1	0.16	0.03	0.01	0.00	0.01	0.00	0.22	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
6	10	8.79	1	0.16	0.03	0.01	0.00	0.01	0.00	0.22	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
6	11	8.79	1	0.16	0.03	0.01	0.00	0.01	0.00	0.22	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
6	12	8.80	1	0.16	0.03	0.01	0.00	0.01	0.00	0.22	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
6	13	8.80	1	0.16	0.03	0.01	0.00	0.01	0.00	0.22	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
6	14	8.81	1	0.16	0.03	0.01	0.00	0.01	0.00	0.22	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
6	15	8.81	1	0.16	0.03	0.01	0.00	0.01	0.00	0.22	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
6	16	8.82	1	0.16	0.03	0.01	0.00	0.01	0.00	0.22	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
6	17	8.82	1	0.16	0.03	0.01	0.00	0.01	0.00	0.22	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
6	18	8.83	1	0.16	0.03	0.01	0.00	0.01	0.00	0.22	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00

6	19	8.83	1	0.16	0.03	0.01	0.00	0.01	0.00	0.22	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
6	20	8.84	1	0.16	0.03	0.01	0.00	0.01	0.00	0.22	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
7	1	8.84	1	0.16	0.03	0.01	0.01	0.01	0.00	0.22	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
7	2	8.85	1	0.16	0.03	0.01	0.01	0.01	0.00	0.22	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
7	3	8.85	1	0.16	0.03	0.01	0.01	0.01	0.00	0.22	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
7	4	8.84	1	0.16	0.03	0.01	0.01	0.01	0.00	0.22	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
7	5	8.33	1	0.18	0.04	0.01	0.01	0.02	0.00	0.27	0.00	0.31	0.01	0.00	0.00	0.00	0.00	0.00	0.00
7	6	8.34	1	0.18	0.04	0.01	0.01	0.02	0.00	0.27	0.00	0.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 12
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** REACTION COEFFICIENT SUMMARY **

RCH NUM	ELE NUM	DO SAT MG/L	K2 OPT	OXYGN REAIR 1/DAY	BOD DECAY 1/DAY	BOD SETT 1/DAY	SOD RATE G/F2D	ORGN DECAY 1/DAY	ORGN SETT 1/DAY	NH3 DECAY 1/DAY	NH3 SRCE MG/F2D	NO2 DECAY 1/DAY	ORGP DECAY 1/DAY	ORGP SETT 1/DAY	DISP SRCE MG/F2D	COLI DECAY 1/DAY	ANC DECAY 1/DAY	ANC SETT 1/DAY	ANC SRCE MG/F2D
7	7	8.35	1	0.18	0.04	0.01	0.01	0.02	0.00	0.27	0.00	0.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00
7	8	8.36	1	0.18	0.04	0.01	0.01	0.02	0.00	0.27	0.00	0.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00
7	9	8.36	1	0.18	0.04	0.01	0.01	0.02	0.00	0.27	0.00	0.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00
7	10	8.37	1	0.18	0.04	0.01	0.01	0.02	0.00	0.27	0.00	0.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00
7	11	8.38	1	0.18	0.04	0.01	0.01	0.02	0.00	0.27	0.00	0.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00
7	12	8.39	1	0.18	0.04	0.01	0.01	0.02	0.00	0.26	0.00	0.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00
7	13	8.40	1	0.18	0.04	0.01	0.01	0.02	0.00	0.26	0.00	0.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00
7	14	8.40	1	0.17	0.04	0.01	0.01	0.02	0.00	0.26	0.00	0.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00
7	15	8.41	1	0.17	0.04	0.01	0.01	0.02	0.00	0.26	0.00	0.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00
7	16	8.42	1	0.17	0.04	0.01	0.01	0.02	0.00	0.26	0.00	0.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00
7	17	8.43	1	0.17	0.04	0.01	0.01	0.02	0.00	0.26	0.00	0.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00
7	18	8.43	1	0.17	0.04	0.01	0.01	0.02	0.00	0.26	0.00	0.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00
7	19	8.44	1	0.17	0.04	0.01	0.01	0.02	0.00	0.26	0.00	0.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00
7	20	8.45	1	0.17	0.04	0.01	0.01	0.02	0.00	0.26	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
8	1	8.46	1	0.17	0.04	0.01	0.01	0.02	0.00	0.26	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
8	2	8.46	1	0.17	0.04	0.01	0.01	0.02	0.00	0.26	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
8	3	8.47	1	0.17	0.04	0.01	0.01	0.02	0.00	0.25	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
8	4	8.48	1	0.17	0.04	0.01	0.01	0.02	0.00	0.25	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
8	5	8.49	1	0.17	0.04	0.01	0.01	0.02	0.00	0.25	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
8	6	8.49	1	0.17	0.04	0.01	0.01	0.02	0.00	0.25	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
8	7	8.50	1	0.17	0.04	0.01	0.01	0.02	0.00	0.25	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
8	8	8.51	1	0.17	0.04	0.01	0.01	0.02	0.00	0.25	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
8	9	8.52	1	0.17	0.04	0.01	0.01	0.02	0.00	0.25	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
8	10	8.52	1	0.17	0.04	0.01	0.01	0.02	0.00	0.25	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
8	11	8.53	1	0.17	0.04	0.01	0.01	0.02	0.00	0.25	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
8	12	8.54	1	0.17	0.04	0.01	0.01	0.02	0.00	0.25	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
8	13	8.55	1	0.17	0.04	0.01	0.01	0.02	0.00	0.25	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
8	14	8.55	1	0.17	0.04	0.01	0.01	0.02	0.00	0.25	0.00	0.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00

8	15	8.56	1	0.17	0.04	0.01	0.01	0.02	0.00	0.24	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
8	16	8.57	1	0.17	0.04	0.01	0.01	0.02	0.00	0.24	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
8	17	8.58	1	0.17	0.04	0.01	0.01	0.02	0.00	0.24	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
8	18	8.62	1	0.17	0.04	0.01	0.01	0.01	0.00	0.24	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
8	19	8.63	1	0.17	0.04	0.01	0.01	0.01	0.00	0.24	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
8	20	8.63	1	0.17	0.04	0.01	0.01	0.01	0.00	0.24	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
9	1	8.64	1	0.17	0.04	0.01	0.01	0.01	0.00	0.24	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
9	2	8.65	1	0.17	0.04	0.01	0.01	0.01	0.00	0.24	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
9	3	8.65	1	0.17	0.04	0.01	0.01	0.01	0.00	0.23	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
9	4	8.64	1	0.17	0.04	0.01	0.01	0.01	0.00	0.24	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
9	5	8.64	1	0.17	0.04	0.01	0.01	0.01	0.00	0.24	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
9	6	8.65	1	0.17	0.04	0.01	0.01	0.01	0.00	0.23	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
9	7	8.66	1	0.17	0.04	0.01	0.01	0.01	0.00	0.23	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
9	8	8.66	1	0.17	0.04	0.01	0.01	0.01	0.00	0.23	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 13
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** REACTION COEFFICIENT SUMMARY **

RCH NUM	ELE NUM	DO SAT MG/L	K2 OPT	OXYGN REAIR 1/DAY	BOD DECAY 1/DAY	BOD SETT 1/DAY	SOD RATE G/F2D	ORGN DECAY 1/DAY	ORGN SETT 1/DAY	NH3 DECAY 1/DAY	NH3 SRCE MG/F2D	NO2 DECAY 1/DAY	ORGP DECAY 1/DAY	ORGP SETT 1/DAY	DISP SRCE MG/F2D	COLI DECAY 1/DAY	ANC DECAY 1/DAY	ANC SETT 1/DAY	ANC SRCE MG/F2D
9	9	8.67	1	0.17	0.04	0.01	0.01	0.01	0.00	0.23	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
9	10	8.67	1	0.17	0.04	0.01	0.01	0.01	0.00	0.23	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
9	11	8.68	1	0.17	0.04	0.01	0.01	0.01	0.00	0.23	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
9	12	8.69	1	0.17	0.04	0.01	0.01	0.01	0.00	0.23	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
9	13	8.69	1	0.17	0.04	0.01	0.01	0.01	0.00	0.23	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
9	14	8.70	1	0.17	0.04	0.01	0.01	0.01	0.00	0.23	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
9	15	8.70	1	0.17	0.04	0.01	0.01	0.01	0.00	0.23	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
9	16	8.71	1	0.17	0.04	0.01	0.01	0.01	0.00	0.23	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
9	17	8.71	1	0.17	0.04	0.01	0.01	0.01	0.00	0.23	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
9	18	8.72	1	0.17	0.04	0.01	0.01	0.01	0.00	0.23	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
9	19	8.72	1	0.17	0.04	0.01	0.01	0.01	0.00	0.23	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
9	20	8.73	1	0.17	0.04	0.01	0.01	0.01	0.00	0.23	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
10	1	8.73	1	0.17	0.04	0.01	0.01	0.01	0.00	0.23	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
10	2	8.74	1	0.17	0.04	0.01	0.01	0.01	0.00	0.23	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
10	3	8.74	1	0.17	0.04	0.01	0.01	0.01	0.00	0.23	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
10	4	8.75	1	0.17	0.04	0.01	0.01	0.01	0.00	0.22	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
10	5	8.75	1	0.17	0.04	0.01	0.01	0.01	0.00	0.22	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
10	6	8.76	1	0.17	0.04	0.01	0.01	0.01	0.00	0.22	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
10	7	8.76	1	0.17	0.04	0.01	0.01	0.01	0.00	0.22	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
10	8	8.77	1	0.17	0.04	0.01	0.01	0.01	0.00	0.22	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
10	9	8.77	1	0.17	0.04	0.01	0.01	0.01	0.00	0.22	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
10	10	8.78	1	0.17	0.04	0.01	0.01	0.01	0.00	0.22	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00

10	11	8.78	1	0.17	0.03	0.01	0.01	0.01	0.00	0.22	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
10	12	8.79	1	0.17	0.03	0.01	0.01	0.01	0.00	0.22	0.00	0.27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
10	13	8.79	1	0.17	0.03	0.01	0.01	0.01	0.00	0.22	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
10	14	8.80	1	0.17	0.03	0.01	0.01	0.01	0.00	0.22	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
10	15	8.80	1	0.17	0.03	0.01	0.01	0.01	0.00	0.22	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
10	16	8.81	1	0.17	0.03	0.01	0.01	0.01	0.00	0.22	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
10	17	8.81	1	0.17	0.03	0.01	0.01	0.01	0.00	0.22	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
10	18	8.82	1	0.17	0.03	0.01	0.01	0.01	0.00	0.22	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
10	19	8.82	1	0.17	0.03	0.01	0.01	0.01	0.00	0.22	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
10	20	8.82	1	0.17	0.03	0.01	0.01	0.01	0.00	0.22	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
11	1	8.83	1	0.17	0.03	0.01	0.01	0.01	0.00	0.22	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
11	2	8.83	1	0.17	0.03	0.01	0.01	0.01	0.00	0.22	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
11	3	8.84	1	0.17	0.03	0.01	0.01	0.01	0.00	0.22	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
11	4	8.84	1	0.17	0.03	0.01	0.01	0.01	0.00	0.22	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
11	5	8.85	1	0.17	0.03	0.01	0.01	0.01	0.00	0.22	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
11	6	8.85	1	0.17	0.03	0.01	0.01	0.01	0.00	0.22	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
11	7	8.85	1	0.17	0.03	0.01	0.01	0.01	0.00	0.22	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
11	8	8.86	1	0.17	0.03	0.01	0.01	0.01	0.00	0.22	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
11	9	8.86	1	0.17	0.03	0.01	0.01	0.01	0.00	0.21	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
11	10	8.87	1	0.17	0.03	0.01	0.01	0.01	0.00	0.21	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 14
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** REACTION COEFFICIENT SUMMARY **

RCH NUM	ELE NUM	DO SAT MG/L	K2 OPT	OXYGN REAIR 1/DAY	BOD DECAY 1/DAY	BOD SETT 1/DAY	SOD RATE G/F2D	ORGN DECAY 1/DAY	ORGN SETT 1/DAY	NH3 DECAY 1/DAY	NH3 SRCE MG/F2D	NO2 DECAY 1/DAY	ORGP DECAY 1/DAY	ORGP SETT 1/DAY	DISP SRCE MG/F2D	COLI DECAY 1/DAY	ANC DECAY 1/DAY	ANC SETT 1/DAY	ANC SRCE MG/F2D
11	11	8.87	1	0.17	0.03	0.01	0.01	0.01	0.00	0.21	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
11	12	8.87	1	0.17	0.03	0.01	0.01	0.01	0.00	0.21	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
11	13	8.88	1	0.17	0.03	0.01	0.01	0.01	0.00	0.21	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
11	14	8.88	1	0.17	0.03	0.01	0.01	0.01	0.00	0.21	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
11	15	8.89	1	0.17	0.03	0.01	0.01	0.01	0.00	0.21	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
11	16	8.89	1	0.17	0.03	0.01	0.01	0.01	0.00	0.21	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
11	17	8.89	1	0.17	0.03	0.01	0.01	0.01	0.00	0.21	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
11	18	8.90	1	0.17	0.03	0.01	0.01	0.01	0.00	0.21	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
11	19	8.90	1	0.17	0.03	0.01	0.01	0.01	0.00	0.21	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
11	20	8.90	1	0.17	0.03	0.01	0.01	0.01	0.00	0.21	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
12	1	8.91	1	0.15	0.03	0.01	0.01	0.01	0.00	0.21	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
12	2	8.91	1	0.13	0.03	0.01	0.01	0.01	0.00	0.21	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
12	3	8.92	1	0.13	0.03	0.01	0.01	0.01	0.00	0.21	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
12	4	8.92	1	0.13	0.03	0.01	0.01	0.01	0.00	0.21	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
12	5	8.92	1	0.13	0.03	0.01	0.01	0.01	0.00	0.21	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
12	6	8.93	1	0.13	0.03	0.01	0.01	0.01	0.00	0.21	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00

12	7	8.93	1	0.13	0.03	0.01	0.01	0.01	0.00	0.21	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
12	8	8.93	1	0.13	0.03	0.01	0.01	0.01	0.00	0.21	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
12	9	8.94	1	0.13	0.03	0.01	0.01	0.01	0.00	0.21	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
12	10	8.94	1	0.13	0.03	0.01	0.01	0.01	0.00	0.21	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
12	11	8.94	1	0.13	0.03	0.01	0.01	0.01	0.00	0.21	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
12	12	8.95	1	0.13	0.03	0.01	0.01	0.01	0.00	0.21	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
12	13	8.95	1	0.13	0.03	0.01	0.01	0.01	0.00	0.21	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
12	14	8.95	1	0.13	0.03	0.01	0.01	0.01	0.00	0.21	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
12	15	8.96	1	0.13	0.03	0.01	0.01	0.01	0.00	0.21	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
12	16	8.96	1	0.13	0.03	0.01	0.01	0.01	0.00	0.21	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
12	17	8.96	1	0.13	0.03	0.01	0.01	0.01	0.00	0.21	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
12	18	8.97	1	0.13	0.03	0.01	0.01	0.01	0.00	0.21	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
12	19	8.97	1	0.13	0.03	0.01	0.01	0.01	0.00	0.21	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
12	20	8.97	1	0.13	0.03	0.01	0.01	0.01	0.00	0.21	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
13	1	8.98	1	0.12	0.03	0.01	0.01	0.01	0.00	0.21	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
13	2	8.98	1	0.11	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
13	3	8.98	1	0.11	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
13	4	8.98	1	0.11	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
13	5	8.99	1	0.11	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
13	6	8.99	1	0.11	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
13	7	8.99	1	0.11	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
13	8	9.00	1	0.11	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
13	9	9.00	1	0.11	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
13	10	9.00	1	0.11	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
13	11	9.01	1	0.11	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
13	12	9.01	1	0.11	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 15
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** REACTION COEFFICIENT SUMMARY **

RCH NUM	ELE NUM	DO SAT MG/L	K2 OPT	OXYGN REAIR 1/DAY	BOD DECAY 1/DAY	BOD SETT 1/DAY	SOD RATE G/F2D	ORGN DECAY 1/DAY	ORGN SETT 1/DAY	NH3 DECAY 1/DAY	NH3 SRCE MG/F2D	NO2 DECAY 1/DAY	ORGP DECAY 1/DAY	ORGP SETT 1/DAY	DISP SRCE MG/F2D	COLI DECAY 1/DAY	ANC DECAY 1/DAY	ANC SETT 1/DAY	ANC SRCE MG/F2D
13	13	9.01	1	0.11	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
13	14	9.01	1	0.11	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
13	15	9.02	1	0.11	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
13	16	9.02	1	0.11	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
13	17	9.02	1	0.11	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
13	18	9.03	1	0.11	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
13	19	9.03	1	0.11	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
13	20	9.03	1	0.11	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
14	1	9.03	1	0.11	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
14	2	9.04	1	0.12	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00

14	3	9.04	1	0.12	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
14	4	9.04	1	0.12	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
14	5	9.05	1	0.12	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
14	6	9.05	1	0.12	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
14	7	9.05	1	0.12	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
14	8	9.06	1	0.12	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
14	9	9.06	1	0.12	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
14	10	9.06	1	0.12	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
14	11	9.06	1	0.12	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
14	12	9.07	1	0.12	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
14	13	9.07	1	0.12	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
14	14	9.07	1	0.12	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
14	15	9.08	1	0.12	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
14	16	9.08	1	0.12	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
14	17	9.08	1	0.12	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
14	18	9.08	1	0.12	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
14	19	9.09	1	0.12	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
14	20	9.09	1	0.12	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
15	1	9.09	1	0.12	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
15	2	9.10	1	0.13	0.03	0.01	0.01	0.01	0.00	0.20	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
15	3	9.10	1	0.13	0.03	0.01	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
15	4	9.10	1	0.13	0.03	0.01	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
15	5	9.10	1	0.13	0.03	0.01	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
15	6	9.11	1	0.13	0.03	0.01	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
15	7	9.11	1	0.13	0.03	0.01	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
15	8	9.11	1	0.13	0.03	0.01	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
15	9	9.12	1	0.13	0.03	0.01	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
15	10	9.12	1	0.13	0.03	0.01	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
15	11	9.12	1	0.13	0.03	0.01	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
15	12	9.13	1	0.13	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
15	13	9.13	1	0.13	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
15	14	9.13	1	0.13	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 16
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** REACTION COEFFICIENT SUMMARY **

RCH NUM	ELE NUM	DO SAT MG/L	K2 OPT	OXYGN REAIR 1/DAY	BOD DECAY 1/DAY	BOD SETT 1/DAY	SOD RATE G/F2D	ORGN DECAY 1/DAY	ORGN SETT 1/DAY	NH3 DECAY 1/DAY	NH3 SRCE MG/F2D	NO2 DECAY 1/DAY	ORGP DECAY 1/DAY	ORGP SETT 1/DAY	DISP SRCE MG/F2D	COLI DECAY 1/DAY	ANC DECAY 1/DAY	ANC SETT 1/DAY	ANC SRCE MG/F2D
15	15	9.13	1	0.13	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
15	16	9.14	1	0.13	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
15	17	9.14	1	0.13	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
15	18	9.14	1	0.13	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
15	19	9.15	1	0.13	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
15	20	9.15	1	0.13	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00

16	1	9.15	1	0.13	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
16	2	9.15	1	0.14	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
16	3	9.16	1	0.14	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
16	4	9.16	1	0.14	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
16	5	9.16	1	0.14	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
16	6	9.17	1	0.14	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
16	7	9.17	1	0.14	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
16	8	9.17	1	0.14	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
16	9	9.17	1	0.14	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
16	10	9.18	1	0.14	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
16	11	9.18	1	0.14	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
16	12	9.18	1	0.14	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
16	13	9.18	1	0.14	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
16	14	9.19	1	0.14	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
16	15	9.19	1	0.14	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
16	16	9.19	1	0.14	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
16	17	9.20	1	0.14	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
16	18	9.20	1	0.14	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
16	19	9.20	1	0.14	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
16	20	9.20	1	0.14	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
17	1	9.21	1	0.15	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
17	2	9.21	1	0.15	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
17	3	9.21	1	0.15	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
17	4	9.21	1	0.15	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
17	5	9.22	1	0.15	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
17	6	9.22	1	0.15	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
17	7	9.22	1	0.15	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
17	8	9.23	1	0.15	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
17	9	9.23	1	0.15	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
17	10	9.23	1	0.15	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
17	11	9.23	1	0.15	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00
17	12	9.23	1	0.15	0.03	0.00	0.01	0.01	0.00	0.19	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00

STREAM QUALITY SIMULATION — OUTPUT PAGE NUMBER 17
QUAL-2E STREAM QUALITY ROUTING MODEL — Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** WATER QUALITY VARIABLES **

RCH NUM	ELE NUM	TEMP DEG-F	CM-1	CM-2	CM-3	DO MG/L	BOD MG/L	ORGN MG/L	NH3N MG/L	NO2N MG/L	NO3N MG/L	SUM-N MG/L	ORGP MG/L	DIS-P MG/L	SUM-P MG/L	COLI #/100ML	ANC	CHLA UG/L
1	1	65.49	0.00	0.00	0.00	7.52	5.58	0.72	0.03	0.02	0.17	0.94	0.04	0.02	0.06	0.00	0.00	13.77
1	2	65.48	0.00	0.00	0.00	7.53	5.57	0.72	0.03	0.02	0.17	0.94	0.04	0.02	0.06	0.00	0.00	13.74

1	3	65.47	0.00	0.00	0.00	7.54	5.55	0.72	0.03	0.02	0.17	0.94	0.04	0.02	0.06	0.00	0.00	13.72
1	4	65.46	0.00	0.00	0.00	7.56	5.54	0.72	0.03	0.02	0.17	0.94	0.04	0.02	0.06	0.00	0.00	13.69
1	5	65.45	0.00	0.00	0.00	7.57	5.52	0.72	0.03	0.02	0.17	0.94	0.04	0.02	0.06	0.00	0.00	13.66
1	6	65.44	0.00	0.00	0.00	7.59	5.50	0.72	0.03	0.02	0.17	0.94	0.04	0.02	0.06	0.00	0.00	13.64
1	7	65.43	0.00	0.00	0.00	7.60	5.49	0.71	0.03	0.02	0.17	0.94	0.04	0.02	0.06	0.00	0.00	13.61
1	8	65.42	0.00	0.00	0.00	7.61	5.47	0.71	0.03	0.02	0.17	0.94	0.04	0.02	0.06	0.00	0.00	13.58
1	9	65.41	0.00	0.00	0.00	7.63	5.46	0.71	0.03	0.02	0.17	0.94	0.04	0.02	0.06	0.00	0.00	13.56
1	10	65.40	0.00	0.00	0.00	7.64	5.44	0.71	0.03	0.02	0.17	0.94	0.04	0.02	0.06	0.00	0.00	13.53
1	11	65.39	0.00	0.00	0.00	7.65	5.43	0.71	0.03	0.02	0.17	0.94	0.04	0.02	0.06	0.00	0.00	13.50
1	12	65.38	0.00	0.00	0.00	7.67	5.41	0.71	0.03	0.02	0.17	0.94	0.04	0.02	0.06	0.00	0.00	13.48
1	13	65.37	0.00	0.00	0.00	7.68	5.40	0.71	0.03	0.02	0.17	0.94	0.04	0.02	0.06	0.00	0.00	13.45
1	14	65.36	0.00	0.00	0.00	7.69	5.38	0.71	0.03	0.02	0.17	0.94	0.04	0.02	0.06	0.00	0.00	13.42
1	15	65.35	0.00	0.00	0.00	7.71	5.36	0.71	0.03	0.02	0.17	0.94	0.04	0.02	0.06	0.00	0.00	13.40
1	16	65.34	0.00	0.00	0.00	7.72	5.35	0.71	0.03	0.02	0.17	0.94	0.04	0.02	0.06	0.00	0.00	13.37
1	17	65.33	0.00	0.00	0.00	7.73	5.33	0.71	0.03	0.02	0.18	0.94	0.04	0.02	0.06	0.00	0.00	13.35
1	18	65.33	0.00	0.00	0.00	7.74	5.32	0.71	0.03	0.02	0.18	0.94	0.04	0.02	0.06	0.00	0.00	13.32
1	19	65.32	0.00	0.00	0.00	7.75	5.30	0.71	0.03	0.02	0.18	0.94	0.04	0.02	0.06	0.00	0.00	13.29
1	20	65.31	0.00	0.00	0.00	7.76	5.29	0.70	0.03	0.02	0.18	0.94	0.04	0.02	0.06	0.00	0.00	13.27
2	1	65.30	0.00	0.00	0.00	7.78	5.27	0.70	0.03	0.02	0.18	0.94	0.04	0.02	0.06	0.00	0.00	13.25
2	2	65.29	0.00	0.00	0.00	7.79	5.26	0.70	0.03	0.02	0.18	0.94	0.04	0.02	0.06	0.00	0.00	13.23
2	3	65.28	0.00	0.00	0.00	7.80	5.25	0.70	0.03	0.02	0.18	0.94	0.05	0.02	0.07	0.00	0.00	13.20
2	4	65.27	0.00	0.00	0.00	7.81	5.23	0.70	0.03	0.02	0.18	0.94	0.05	0.02	0.07	0.00	0.00	13.18
2	5	65.26	0.00	0.00	0.00	7.83	5.22	0.70	0.04	0.02	0.18	0.94	0.05	0.02	0.07	0.00	0.00	13.16
2	6	65.25	0.00	0.00	0.00	7.84	5.20	0.70	0.04	0.02	0.18	0.94	0.05	0.02	0.07	0.00	0.00	13.14
2	7	65.24	0.00	0.00	0.00	7.85	5.20	0.70	0.04	0.02	0.18	0.94	0.05	0.02	0.07	0.00	0.00	13.12
2	8	64.98	0.00	0.00	0.00	7.86	5.33	0.70	0.03	0.02	0.18	0.94	0.06	0.02	0.08	0.00	0.00	13.32
2	9	64.97	0.00	0.00	0.00	7.87	5.32	0.70	0.03	0.02	0.18	0.94	0.06	0.02	0.08	0.00	0.00	13.30
2	10	65.03	0.00	0.00	0.00	7.88	5.30	0.70	0.03	0.02	0.18	0.94	0.06	0.02	0.09	0.00	0.00	13.26
2	11	65.25	0.00	0.00	0.00	7.89	5.29	0.70	0.04	0.02	0.18	0.94	0.07	0.02	0.09	0.00	0.00	13.17
2	12	76.04	0.00	0.00	0.00	7.84	5.21	0.70	0.03	0.02	0.19	0.94	0.08	0.02	0.10	0.00	0.00	10.10
2	13	75.97	0.00	0.00	0.00	7.83	5.19	0.70	0.03	0.02	0.19	0.94	0.08	0.02	0.10	0.00	0.00	10.08
2	14	75.90	0.00	0.00	0.00	7.82	5.17	0.69	0.03	0.02	0.19	0.94	0.08	0.02	0.10	0.00	0.00	10.06
2	15	75.83	0.00	0.00	0.00	7.81	5.17	0.70	0.04	0.02	0.19	0.94	0.08	0.02	0.10	0.00	0.00	10.06
2	16	75.76	0.00	0.00	0.00	7.80	5.15	0.69	0.04	0.02	0.19	0.94	0.08	0.02	0.10	0.00	0.00	10.04
2	17	75.73	0.00	0.00	0.00	7.77	5.16	0.69	0.10	0.02	0.19	1.00	0.08	0.02	0.11	0.00	0.00	9.99
2	18	75.67	0.00	0.00	0.00	7.76	5.14	0.69	0.09	0.03	0.19	1.00	0.09	0.02	0.11	0.00	0.00	9.98
2	19	75.60	0.00	0.00	0.00	7.75	5.12	0.69	0.09	0.03	0.19	1.00	0.09	0.02	0.11	0.00	0.00	9.97
2	20	75.54	0.00	0.00	0.00	7.75	5.11	0.69	0.09	0.03	0.19	1.00	0.09	0.02	0.11	0.00	0.00	9.95
3	1	75.47	0.00	0.00	0.00	7.74	5.14	0.69	0.09	0.03	0.19	1.00	0.09	0.02	0.11	0.00	0.00	9.94
3	2	75.41	0.00	0.00	0.00	7.73	5.16	0.69	0.09	0.03	0.19	1.00	0.09	0.02	0.12	0.00	0.00	9.92

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 18
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** WATER QUALITY VARIABLES **

RCH NUM	ELE NUM	TEMP DEG-F	CM-1	CM-2	CM-3	DO MG/L	BOD MG/L	ORGN MG/L	NH3N MG/L	NO2N MG/L	NO3N MG/L	SUM-N MG/L	ORGP MG/L	DIS-P MG/L	SUM-P MG/L	COLI #/100ML	ANC	CHLA UG/L
3	3	75.34	0.00	0.00	0.00	7.72	5.19	0.69	0.09	0.03	0.19	1.00	0.10	0.02	0.12	0.00	0.00	9.91
3	4	75.28	0.00	0.00	0.00	7.72	5.22	0.69	0.09	0.03	0.19	1.00	0.10	0.02	0.12	0.00	0.00	9.89
3	5	75.23	0.00	0.00	0.00	7.70	5.36	0.70	0.09	0.03	0.23	1.05	0.10	0.02	0.13	0.00	0.00	9.87
3	6	75.16	0.00	0.00	0.00	7.70	5.38	0.70	0.09	0.03	0.23	1.05	0.11	0.02	0.13	0.00	0.00	9.85
3	7	75.10	0.00	0.00	0.00	7.69	5.41	0.69	0.09	0.03	0.23	1.05	0.11	0.02	0.13	0.00	0.00	9.84
3	8	75.04	0.00	0.00	0.00	7.69	5.44	0.69	0.09	0.03	0.23	1.05	0.11	0.02	0.13	0.00	0.00	9.82
3	9	74.97	0.00	0.00	0.00	7.68	5.46	0.69	0.09	0.04	0.23	1.05	0.11	0.02	0.14	0.00	0.00	9.81
3	10	74.80	0.00	0.00	0.00	7.68	5.49	0.69	0.08	0.04	0.23	1.05	0.12	0.02	0.14	0.00	0.00	9.83
3	11	74.74	0.00	0.00	0.00	7.67	5.52	0.69	0.08	0.04	0.23	1.05	0.12	0.02	0.14	0.00	0.00	9.82
3	12	74.68	0.00	0.00	0.00	7.67	5.55	0.69	0.08	0.04	0.23	1.05	0.12	0.02	0.15	0.00	0.00	9.80
3	13	74.62	0.00	0.00	0.00	7.66	5.57	0.69	0.08	0.04	0.24	1.05	0.13	0.02	0.15	0.00	0.00	9.79
3	14	74.56	0.00	0.00	0.00	7.66	5.60	0.69	0.08	0.04	0.24	1.05	0.13	0.02	0.15	0.00	0.00	9.78
3	15	74.50	0.00	0.00	0.00	7.65	5.62	0.69	0.08	0.04	0.24	1.05	0.13	0.02	0.15	0.00	0.00	9.77
3	16	74.44	0.00	0.00	0.00	7.65	5.65	0.69	0.08	0.04	0.24	1.05	0.13	0.02	0.16	0.00	0.00	9.75
3	17	74.38	0.00	0.00	0.00	7.64	5.68	0.69	0.08	0.04	0.24	1.05	0.14	0.02	0.16	0.00	0.00	9.74
3	18	74.33	0.00	0.00	0.00	7.64	5.70	0.69	0.08	0.04	0.24	1.05	0.14	0.02	0.16	0.00	0.00	9.73
3	19	74.27	0.00	0.00	0.00	7.64	5.73	0.69	0.08	0.04	0.24	1.04	0.14	0.02	0.17	0.00	0.00	9.71
3	20	74.21	0.00	0.00	0.00	7.63	5.76	0.69	0.08	0.04	0.24	1.04	0.15	0.02	0.17	0.00	0.00	9.70
4	1	74.15	0.00	0.00	0.00	7.63	5.82	0.68	0.08	0.04	0.24	1.04	0.14	0.02	0.17	0.00	0.00	9.68
4	2	74.09	0.00	0.00	0.00	7.61	5.88	0.68	0.08	0.04	0.24	1.04	0.14	0.02	0.17	0.00	0.00	9.65
4	3	74.03	0.00	0.00	0.00	7.60	5.94	0.68	0.08	0.04	0.24	1.04	0.14	0.02	0.17	0.00	0.00	9.63
4	4	73.97	0.00	0.00	0.00	7.59	6.00	0.68	0.07	0.04	0.24	1.04	0.14	0.02	0.17	0.00	0.00	9.60
4	5	73.91	0.00	0.00	0.00	7.58	6.06	0.68	0.07	0.04	0.25	1.04	0.14	0.02	0.17	0.00	0.00	9.58
4	6	73.85	0.00	0.00	0.00	7.57	6.12	0.68	0.07	0.04	0.25	1.04	0.14	0.02	0.17	0.00	0.00	9.55
4	7	73.79	0.00	0.00	0.00	7.56	6.18	0.68	0.07	0.04	0.25	1.04	0.14	0.02	0.17	0.00	0.00	9.52
4	8	73.73	0.00	0.00	0.00	7.55	6.24	0.68	0.07	0.05	0.25	1.04	0.14	0.02	0.17	0.00	0.00	9.50
4	9	73.67	0.00	0.00	0.00	7.54	6.30	0.68	0.07	0.05	0.25	1.04	0.14	0.02	0.17	0.00	0.00	9.48
4	10	73.61	0.00	0.00	0.00	7.53	6.35	0.68	0.07	0.05	0.25	1.04	0.14	0.02	0.17	0.00	0.00	9.45
4	11	73.55	0.00	0.00	0.00	7.52	6.41	0.67	0.07	0.05	0.25	1.04	0.14	0.03	0.17	0.00	0.00	9.43
4	12	73.49	0.00	0.00	0.00	7.52	6.47	0.67	0.07	0.05	0.25	1.04	0.14	0.03	0.17	0.00	0.00	9.40
4	13	73.43	0.00	0.00	0.00	7.51	6.53	0.67	0.07	0.05	0.25	1.04	0.14	0.03	0.17	0.00	0.00	9.38
4	14	73.37	0.00	0.00	0.00	7.50	6.59	0.67	0.07	0.05	0.26	1.04	0.14	0.03	0.17	0.00	0.00	9.36
4	15	73.32	0.00	0.00	0.00	7.49	6.64	0.67	0.07	0.05	0.26	1.04	0.14	0.03	0.17	0.00	0.00	9.33
4	16	73.26	0.00	0.00	0.00	7.48	6.70	0.67	0.07	0.05	0.26	1.04	0.14	0.03	0.17	0.00	0.00	9.31
4	17	73.20	0.00	0.00	0.00	7.47	6.76	0.67	0.07	0.05	0.26	1.04	0.14	0.03	0.17	0.00	0.00	9.29
4	18	73.15	0.00	0.00	0.00	7.46	6.81	0.67	0.07	0.05	0.26	1.04	0.14	0.03	0.17	0.00	0.00	9.26
4	19	73.09	0.00	0.00	0.00	7.46	6.87	0.67	0.07	0.05	0.26	1.04	0.14	0.03	0.17	0.00	0.00	9.24
4	20	73.04	0.00	0.00	0.00	7.45	6.93	0.66	0.06	0.05	0.26	1.04	0.14	0.03	0.17	0.00	0.00	9.22
5	1	72.98	0.00	0.00	0.00	7.44	6.99	0.66	0.06	0.05	0.26	1.04	0.14	0.03	0.17	0.00	0.00	9.19
5	2	72.92	0.00	0.00	0.00	7.42	7.05	0.66	0.06	0.05	0.27	1.04	0.14	0.03	0.17	0.00	0.00	9.15
5	3	72.87	0.00	0.00	0.00	7.40	7.11	0.66	0.06	0.05	0.27	1.04	0.14	0.03	0.17	0.00	0.00	9.12
5	4	72.81	0.00	0.00	0.00	7.39	7.16	0.66	0.06	0.05	0.27	1.04	0.14	0.03	0.17	0.00	0.00	9.08

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 19
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** WATER QUALITY VARIABLES **

RCH NUM	ELE NUM	TEMP DEG-F	CM-1	CM-2	CM-3	DO MG/L	BOD MG/L	ORGN MG/L	NH3N MG/L	NO2N MG/L	NO3N MG/L	SUM-N MG/L	ORGP MG/L	DIS-P MG/L	SUM-P MG/L	COLI #/100ML	ANC	CHLA UG/L
5	5	72.75	0.00	0.00	0.00	7.37	7.22	0.66	0.06	0.05	0.27	1.04	0.14	0.03	0.17	0.00	0.00	9.05
5	6	72.70	0.00	0.00	0.00	7.36	7.28	0.66	0.06	0.05	0.27	1.04	0.14	0.03	0.17	0.00	0.00	9.01
5	7	72.64	0.00	0.00	0.00	7.34	7.34	0.66	0.06	0.05	0.27	1.04	0.14	0.03	0.17	0.00	0.00	8.98
5	8	72.59	0.00	0.00	0.00	7.33	7.39	0.65	0.06	0.05	0.27	1.04	0.14	0.03	0.17	0.00	0.00	8.95
5	9	72.53	0.00	0.00	0.00	7.31	7.45	0.65	0.06	0.05	0.28	1.04	0.14	0.03	0.17	0.00	0.00	8.91
5	10	72.48	0.00	0.00	0.00	7.30	7.51	0.65	0.06	0.05	0.28	1.04	0.14	0.03	0.17	0.00	0.00	8.88
5	11	72.43	0.00	0.00	0.00	7.28	7.56	0.65	0.06	0.05	0.28	1.04	0.14	0.03	0.17	0.00	0.00	8.85
5	12	72.37	0.00	0.00	0.00	7.27	7.62	0.65	0.06	0.05	0.28	1.04	0.14	0.03	0.17	0.00	0.00	8.82
5	13	72.32	0.00	0.00	0.00	7.26	7.67	0.65	0.06	0.05	0.28	1.04	0.14	0.03	0.17	0.00	0.00	8.78
5	14	72.27	0.00	0.00	0.00	7.24	7.73	0.65	0.06	0.05	0.28	1.04	0.14	0.03	0.17	0.00	0.00	8.75
5	15	72.21	0.00	0.00	0.00	7.23	7.78	0.65	0.06	0.05	0.29	1.04	0.14	0.03	0.17	0.00	0.00	8.72
5	16	72.16	0.00	0.00	0.00	7.22	7.84	0.64	0.06	0.05	0.29	1.04	0.14	0.03	0.17	0.00	0.00	8.69
5	17	72.11	0.00	0.00	0.00	7.20	7.89	0.64	0.06	0.05	0.29	1.04	0.14	0.03	0.17	0.00	0.00	8.66
5	18	72.06	0.00	0.00	0.00	7.19	7.95	0.64	0.05	0.05	0.29	1.04	0.14	0.03	0.17	0.00	0.00	8.63
5	19	72.01	0.00	0.00	0.00	7.18	8.00	0.64	0.05	0.05	0.29	1.04	0.14	0.03	0.17	0.00	0.00	8.60
5	20	71.96	0.00	0.00	0.00	7.17	8.05	0.64	0.05	0.05	0.29	1.04	0.14	0.03	0.17	0.00	0.00	8.57
6	1	71.90	0.00	0.00	0.00	7.15	8.09	0.64	0.05	0.05	0.30	1.04	0.14	0.03	0.17	0.00	0.00	8.54
6	2	71.85	0.00	0.00	0.00	7.14	8.13	0.64	0.05	0.05	0.30	1.04	0.14	0.03	0.17	0.00	0.00	8.51
6	3	71.79	0.00	0.00	0.00	7.13	8.17	0.64	0.05	0.05	0.30	1.04	0.14	0.03	0.17	0.00	0.00	8.48
6	4	71.74	0.00	0.00	0.00	7.12	8.21	0.64	0.05	0.05	0.30	1.04	0.14	0.03	0.17	0.00	0.00	8.45
6	5	71.69	0.00	0.00	0.00	7.11	8.25	0.65	0.05	0.05	0.30	1.05	0.14	0.03	0.17	0.00	0.00	8.42
6	6	71.63	0.00	0.00	0.00	7.10	8.29	0.65	0.05	0.05	0.30	1.05	0.14	0.03	0.17	0.00	0.00	8.39
6	7	71.58	0.00	0.00	0.00	7.08	8.33	0.65	0.05	0.05	0.30	1.05	0.14	0.03	0.17	0.00	0.00	8.36
6	8	71.53	0.00	0.00	0.00	7.07	8.37	0.65	0.05	0.05	0.31	1.05	0.14	0.03	0.17	0.00	0.00	8.33
6	9	71.48	0.00	0.00	0.00	7.06	8.41	0.65	0.05	0.05	0.31	1.06	0.14	0.03	0.17	0.00	0.00	8.30
6	10	71.43	0.00	0.00	0.00	7.05	8.44	0.65	0.05	0.05	0.31	1.06	0.13	0.03	0.17	0.00	0.00	8.27
6	11	71.37	0.00	0.00	0.00	7.04	8.48	0.65	0.05	0.05	0.31	1.06	0.13	0.03	0.17	0.00	0.00	8.24
6	12	71.32	0.00	0.00	0.00	7.03	8.52	0.65	0.05	0.05	0.31	1.06	0.13	0.03	0.17	0.00	0.00	8.21
6	13	71.27	0.00	0.00	0.00	7.02	8.56	0.65	0.05	0.05	0.31	1.07	0.13	0.03	0.17	0.00	0.00	8.18
6	14	71.22	0.00	0.00	0.00	7.01	8.60	0.66	0.05	0.05	0.32	1.07	0.13	0.03	0.17	0.00	0.00	8.16
6	15	71.17	0.00	0.00	0.00	7.01	8.63	0.66	0.05	0.05	0.32	1.07	0.13	0.03	0.17	0.00	0.00	8.13
6	16	71.10	0.00	0.00	0.00	7.00	8.70	0.66	0.05	0.05	0.32	1.08	0.13	0.03	0.17	0.00	0.00	8.14
6	17	71.06	0.00	0.00	0.00	6.99	8.73	0.66	0.05	0.05	0.32	1.08	0.13	0.03	0.17	0.00	0.00	8.11
6	18	71.01	0.00	0.00	0.00	6.98	8.77	0.66	0.05	0.05	0.32	1.08	0.13	0.03	0.17	0.00	0.00	8.09
6	19	70.96	0.00	0.00	0.00	6.97	8.81	0.66	0.05	0.05	0.32	1.08	0.13	0.03	0.17	0.00	0.00	8.06
6	20	70.91	0.00	0.00	0.00	6.96	8.84	0.66	0.05	0.05	0.32	1.09	0.13	0.03	0.17	0.00	0.00	8.03
7	1	70.86	0.00	0.00	0.00	6.95	8.86	0.67	0.05	0.05	0.33	1.09	0.13	0.03	0.17	0.00	0.00	8.01

7	2	70.81	0.00	0.00	0.00	6.94	8.87	0.67	0.05	0.05	0.33	1.09	0.13	0.03	0.17	0.00	0.00	7.98
7	3	70.77	0.00	0.00	0.00	6.93	8.88	0.67	0.05	0.05	0.33	1.09	0.13	0.04	0.17	0.00	0.00	7.95
7	4	70.90	0.00	0.00	0.00	6.92	8.88	0.67	0.05	0.04	0.33	1.09	0.13	0.04	0.17	0.00	0.00	7.89
7	5	76.52	0.00	0.00	0.00	6.87	8.58	0.67	0.05	0.04	0.33	1.09	0.13	0.03	0.17	0.00	0.00	6.58
7	6	76.43	0.00	0.00	0.00	6.84	8.59	0.67	0.05	0.04	0.33	1.09	0.13	0.03	0.17	0.00	0.00	6.55

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 20
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** WATER QUALITY VARIABLES **

RCH NUM	ELE NUM	TEMP DEG-F	CM-1	CM-2	CM-3	DO MG/L	BOD MG/L	ORGN MG/L	NH3N MG/L	NO2N MG/L	NO3N MG/L	SUM-N MG/L	ORGP MG/L	DIS-P MG/L	SUM-P MG/L	COLI #/100ML	ANC	CHLA UG/L
7	7	76.33	0.00	0.00	0.00	6.82	8.60	0.67	0.05	0.04	0.33	1.09	0.13	0.03	0.17	0.00	0.00	6.53
7	8	76.24	0.00	0.00	0.00	6.80	8.61	0.67	0.05	0.04	0.33	1.10	0.13	0.04	0.17	0.00	0.00	6.51
7	9	76.15	0.00	0.00	0.00	6.78	8.61	0.67	0.05	0.04	0.33	1.10	0.13	0.04	0.17	0.00	0.00	6.48
7	10	76.05	0.00	0.00	0.00	6.76	8.62	0.67	0.05	0.04	0.34	1.10	0.13	0.04	0.17	0.00	0.00	6.46
7	11	75.96	0.00	0.00	0.00	6.74	8.63	0.67	0.05	0.04	0.34	1.10	0.13	0.04	0.17	0.00	0.00	6.44
7	12	75.87	0.00	0.00	0.00	6.72	8.64	0.68	0.05	0.04	0.34	1.10	0.13	0.04	0.17	0.00	0.00	6.41
7	13	75.79	0.00	0.00	0.00	6.70	8.64	0.68	0.05	0.04	0.34	1.11	0.13	0.04	0.17	0.00	0.00	6.39
7	14	75.70	0.00	0.00	0.00	6.68	8.65	0.68	0.05	0.04	0.34	1.11	0.13	0.04	0.17	0.00	0.00	6.37
7	15	75.61	0.00	0.00	0.00	6.66	8.66	0.68	0.05	0.04	0.34	1.11	0.13	0.04	0.17	0.00	0.00	6.35
7	16	75.52	0.00	0.00	0.00	6.65	8.67	0.68	0.05	0.04	0.35	1.11	0.13	0.04	0.17	0.00	0.00	6.33
7	17	75.44	0.00	0.00	0.00	6.63	8.68	0.68	0.04	0.04	0.35	1.12	0.13	0.04	0.17	0.00	0.00	6.31
7	18	75.35	0.00	0.00	0.00	6.62	8.68	0.68	0.04	0.04	0.35	1.12	0.13	0.04	0.17	0.00	0.00	6.28
7	19	75.27	0.00	0.00	0.00	6.60	8.69	0.68	0.04	0.04	0.35	1.12	0.13	0.04	0.17	0.00	0.00	6.26
7	20	75.18	0.00	0.00	0.00	6.59	8.70	0.68	0.04	0.04	0.35	1.12	0.13	0.04	0.17	0.00	0.00	6.24
8	1	75.09	0.00	0.00	0.00	6.58	8.71	0.68	0.04	0.04	0.35	1.12	0.13	0.04	0.17	0.00	0.00	6.22
8	2	75.01	0.00	0.00	0.00	6.56	8.71	0.68	0.04	0.04	0.36	1.13	0.13	0.04	0.17	0.00	0.00	6.20
8	3	74.92	0.00	0.00	0.00	6.55	8.72	0.68	0.04	0.04	0.36	1.13	0.13	0.04	0.17	0.00	0.00	6.18
8	4	74.83	0.00	0.00	0.00	6.54	8.72	0.68	0.04	0.04	0.36	1.13	0.13	0.04	0.17	0.00	0.00	6.16
8	5	74.74	0.00	0.00	0.00	6.53	8.72	0.69	0.04	0.04	0.36	1.13	0.13	0.04	0.17	0.00	0.00	6.14
8	6	74.66	0.00	0.00	0.00	6.52	8.73	0.69	0.04	0.04	0.36	1.13	0.13	0.04	0.17	0.00	0.00	6.12
8	7	74.57	0.00	0.00	0.00	6.51	8.74	0.69	0.04	0.04	0.36	1.14	0.13	0.04	0.17	0.00	0.00	6.10
8	8	74.49	0.00	0.00	0.00	6.50	8.74	0.69	0.04	0.04	0.37	1.14	0.13	0.04	0.17	0.00	0.00	6.08
8	9	74.40	0.00	0.00	0.00	6.49	8.75	0.69	0.04	0.04	0.37	1.14	0.13	0.04	0.17	0.00	0.00	6.06
8	10	74.32	0.00	0.00	0.00	6.48	8.75	0.69	0.04	0.04	0.37	1.14	0.13	0.04	0.17	0.00	0.00	6.05
8	11	74.24	0.00	0.00	0.00	6.47	8.76	0.69	0.04	0.04	0.37	1.15	0.13	0.04	0.17	0.00	0.00	6.03
8	12	74.16	0.00	0.00	0.00	6.46	8.76	0.69	0.04	0.04	0.37	1.15	0.13	0.04	0.17	0.00	0.00	6.01
8	13	74.07	0.00	0.00	0.00	6.45	8.77	0.69	0.04	0.04	0.37	1.15	0.13	0.04	0.17	0.00	0.00	5.99
8	14	73.99	0.00	0.00	0.00	6.45	8.77	0.69	0.04	0.04	0.38	1.15	0.13	0.04	0.17	0.00	0.00	5.97
8	15	73.91	0.00	0.00	0.00	6.44	8.78	0.69	0.04	0.04	0.38	1.15	0.13	0.04	0.17	0.00	0.00	5.96
8	16	73.83	0.00	0.00	0.00	6.44	8.79	0.69	0.04	0.04	0.38	1.16	0.13	0.04	0.17	0.00	0.00	5.94
8	17	73.74	0.00	0.00	0.00	6.42	8.88	0.70	0.05	0.04	0.38	1.16	0.13	0.04	0.17	0.00	0.00	5.93
8	18	73.25	0.00	0.00	0.00	6.27	11.24	0.77	0.09	0.04	0.37	1.27	0.14	0.06	0.21	0.00	0.00	6.11
8	19	73.17	0.00	0.00	0.00	6.25	11.23	0.77	0.09	0.04	0.38	1.27	0.14	0.06	0.21	0.00	0.00	6.10

8	20	73.10	0.00	0.00	0.00	6.24	11.22	0.77	0.09	0.04	0.38	1.27	0.14	0.06	0.21	0.00	0.00	6.09
9	1	73.04	0.00	0.00	0.00	6.22	11.21	0.77	0.08	0.04	0.38	1.28	0.14	0.06	0.21	0.00	0.00	6.09
9	2	72.97	0.00	0.00	0.00	6.21	11.21	0.77	0.08	0.04	0.38	1.28	0.14	0.06	0.21	0.00	0.00	6.08
9	3	72.91	0.00	0.00	0.00	6.19	11.22	0.77	0.08	0.05	0.39	1.28	0.14	0.06	0.21	0.00	0.00	6.07
9	4	73.06	0.00	0.00	0.00	6.11	11.40	0.77	0.10	0.05	0.48	1.40	0.16	0.07	0.22	0.00	0.00	5.97
9	5	72.99	0.00	0.00	0.00	6.10	11.39	0.77	0.10	0.05	0.48	1.40	0.16	0.07	0.22	0.00	0.00	5.97
9	6	72.93	0.00	0.00	0.00	6.09	11.39	0.77	0.10	0.05	0.49	1.40	0.16	0.07	0.23	0.00	0.00	5.96
9	7	72.86	0.00	0.00	0.00	6.08	11.38	0.77	0.10	0.05	0.49	1.40	0.16	0.07	0.23	0.00	0.00	5.96
9	8	72.80	0.00	0.00	0.00	6.07	11.38	0.77	0.09	0.05	0.49	1.41	0.16	0.07	0.23	0.00	0.00	5.96

***** STEADY STATE SIMULATION *****

** WATER QUALITY VARIABLES **

RCH NUM	ELE NUM	TEMP DEG-F	CM-1	CM-2	CM-3	DO MG/L	BOD MG/L	ORGN MG/L	NH3N MG/L	NO2N MG/L	NO3N MG/L	SUM-N MG/L	ORGP MG/L	DIS-P MG/L	SUM-P MG/L	COLI #/100ML	ANC	CHLA UG/L
9	9	72.74	0.00	0.00	0.00	6.06	11.38	0.77	0.09	0.05	0.49	1.41	0.16	0.07	0.23	0.00	0.00	5.95
9	10	72.67	0.00	0.00	0.00	6.04	11.37	0.77	0.09	0.05	0.49	1.41	0.16	0.07	0.23	0.00	0.00	5.95
9	11	72.61	0.00	0.00	0.00	6.04	11.37	0.77	0.09	0.05	0.49	1.41	0.16	0.07	0.23	0.00	0.00	5.95
9	12	72.55	0.00	0.00	0.00	6.03	11.37	0.77	0.09	0.05	0.50	1.41	0.16	0.07	0.23	0.00	0.00	5.94
9	13	72.49	0.00	0.00	0.00	6.02	11.36	0.78	0.09	0.06	0.50	1.42	0.16	0.07	0.23	0.00	0.00	5.94
9	14	72.43	0.00	0.00	0.00	6.01	11.36	0.78	0.09	0.06	0.50	1.42	0.16	0.07	0.23	0.00	0.00	5.94
9	15	72.37	0.00	0.00	0.00	6.00	11.35	0.78	0.09	0.06	0.50	1.42	0.16	0.07	0.23	0.00	0.00	5.94
9	16	72.31	0.00	0.00	0.00	6.00	11.35	0.78	0.08	0.06	0.50	1.42	0.16	0.07	0.23	0.00	0.00	5.93
9	17	72.25	0.00	0.00	0.00	5.99	11.35	0.78	0.08	0.06	0.51	1.42	0.16	0.07	0.23	0.00	0.00	5.93
9	18	72.19	0.00	0.00	0.00	5.98	11.35	0.78	0.08	0.06	0.51	1.43	0.16	0.07	0.23	0.00	0.00	5.93
9	19	72.13	0.00	0.00	0.00	5.98	11.34	0.78	0.08	0.06	0.51	1.43	0.16	0.07	0.23	0.00	0.00	5.93
9	20	72.07	0.00	0.00	0.00	5.97	11.34	0.78	0.08	0.06	0.51	1.43	0.16	0.07	0.23	0.00	0.00	5.92
10	1	72.02	0.00	0.00	0.00	5.97	11.34	0.78	0.08	0.06	0.51	1.43	0.16	0.07	0.23	0.00	0.00	5.92
10	2	71.96	0.00	0.00	0.00	5.96	11.34	0.78	0.08	0.06	0.52	1.43	0.16	0.07	0.23	0.00	0.00	5.92
10	3	71.91	0.00	0.00	0.00	5.96	11.34	0.78	0.08	0.06	0.52	1.44	0.16	0.07	0.23	0.00	0.00	5.92
10	4	71.86	0.00	0.00	0.00	5.96	11.34	0.78	0.08	0.06	0.52	1.44	0.16	0.07	0.23	0.00	0.00	5.92
10	5	71.81	0.00	0.00	0.00	5.95	11.35	0.78	0.08	0.06	0.52	1.44	0.16	0.07	0.23	0.00	0.00	5.92
10	6	71.75	0.00	0.00	0.00	5.95	11.35	0.78	0.08	0.06	0.52	1.44	0.16	0.07	0.23	0.00	0.00	5.92
10	7	71.70	0.00	0.00	0.00	5.95	11.35	0.79	0.08	0.06	0.52	1.44	0.16	0.07	0.23	0.00	0.00	5.92
10	8	71.64	0.00	0.00	0.00	5.95	11.35	0.79	0.07	0.06	0.53	1.45	0.16	0.07	0.23	0.00	0.00	5.92
10	9	71.59	0.00	0.00	0.00	5.95	11.36	0.79	0.07	0.06	0.53	1.45	0.16	0.07	0.23	0.00	0.00	5.92
10	10	71.54	0.00	0.00	0.00	5.95	11.36	0.79	0.07	0.06	0.53	1.45	0.16	0.07	0.23	0.00	0.00	5.92
10	11	71.49	0.00	0.00	0.00	5.95	11.36	0.79	0.07	0.06	0.53	1.45	0.16	0.07	0.24	0.00	0.00	5.91
10	12	71.44	0.00	0.00	0.00	5.94	11.36	0.79	0.07	0.06	0.53	1.45	0.16	0.07	0.24	0.00	0.00	5.91
10	13	71.39	0.00	0.00	0.00	5.94	11.37	0.79	0.07	0.06	0.54	1.46	0.16	0.07	0.24	0.00	0.00	5.91
10	14	71.34	0.00	0.00	0.00	5.94	11.37	0.79	0.07	0.06	0.54	1.46	0.16	0.07	0.24	0.00	0.00	5.91
10	15	71.29	0.00	0.00	0.00	5.94	11.37	0.79	0.07	0.06	0.54	1.46	0.16	0.07	0.24	0.00	0.00	5.91

10	16	71.24	0.00	0.00	0.00	5.94	11.37	0.79	0.07	0.06	0.54	1.46	0.16	0.07	0.24	0.00	0.00	5.91
10	17	71.20	0.00	0.00	0.00	5.94	11.38	0.79	0.07	0.06	0.54	1.46	0.16	0.07	0.24	0.00	0.00	5.91
10	18	71.15	0.00	0.00	0.00	5.94	11.38	0.79	0.07	0.06	0.54	1.47	0.16	0.07	0.24	0.00	0.00	5.91
10	19	71.10	0.00	0.00	0.00	5.94	11.38	0.79	0.07	0.06	0.55	1.47	0.17	0.07	0.24	0.00	0.00	5.91
10	20	71.05	0.00	0.00	0.00	5.94	11.39	0.80	0.07	0.06	0.55	1.47	0.17	0.07	0.24	0.00	0.00	5.91
11	1	71.01	0.00	0.00	0.00	5.94	11.38	0.80	0.07	0.06	0.55	1.47	0.17	0.07	0.24	0.00	0.00	5.91
11	2	70.96	0.00	0.00	0.00	5.95	11.38	0.79	0.07	0.06	0.55	1.47	0.17	0.08	0.24	0.00	0.00	5.91
11	3	70.92	0.00	0.00	0.00	5.95	11.38	0.79	0.07	0.06	0.55	1.47	0.16	0.08	0.24	0.00	0.00	5.91
11	4	70.88	0.00	0.00	0.00	5.95	11.38	0.79	0.07	0.06	0.55	1.47	0.16	0.08	0.24	0.00	0.00	5.91
11	5	70.83	0.00	0.00	0.00	5.95	11.37	0.79	0.07	0.06	0.56	1.47	0.16	0.08	0.24	0.00	0.00	5.91
11	6	70.79	0.00	0.00	0.00	5.95	11.37	0.79	0.07	0.06	0.56	1.48	0.16	0.08	0.24	0.00	0.00	5.91
11	7	70.75	0.00	0.00	0.00	5.95	11.37	0.79	0.07	0.06	0.56	1.48	0.16	0.08	0.24	0.00	0.00	5.91
11	8	70.71	0.00	0.00	0.00	5.96	11.37	0.79	0.07	0.06	0.56	1.48	0.16	0.08	0.24	0.00	0.00	5.91
11	9	70.66	0.00	0.00	0.00	5.96	11.37	0.79	0.06	0.06	0.56	1.48	0.16	0.08	0.24	0.00	0.00	5.91
11	10	70.62	0.00	0.00	0.00	5.96	11.37	0.79	0.06	0.06	0.56	1.48	0.16	0.08	0.24	0.00	0.00	5.91

***** STEADY STATE SIMULATION *****

** WATER QUALITY VARIABLES **

RCH NUM	ELE NUM	TEMP DEG-F	CM-1	CM-2	CM-3	DO MG/L	BOD MG/L	ORGN MG/L	NH3N MG/L	NO2N MG/L	NO3N MG/L	SUM-N MG/L	ORGP MG/L	DIS-P MG/L	SUM-P MG/L	COLI #/100ML	ANC	CHLA UG/L
11	11	70.58	0.00	0.00	0.00	5.96	11.36	0.79	0.06	0.06	0.57	1.48	0.16	0.08	0.24	0.00	0.00	5.91
11	12	70.54	0.00	0.00	0.00	5.97	11.36	0.79	0.06	0.06	0.57	1.48	0.16	0.08	0.24	0.00	0.00	5.92
11	13	70.50	0.00	0.00	0.00	5.97	11.36	0.79	0.06	0.06	0.57	1.48	0.16	0.08	0.24	0.00	0.00	5.92
11	14	70.46	0.00	0.00	0.00	5.97	11.36	0.79	0.06	0.06	0.57	1.48	0.16	0.08	0.24	0.00	0.00	5.92
11	15	70.42	0.00	0.00	0.00	5.97	11.36	0.79	0.06	0.06	0.57	1.48	0.16	0.08	0.24	0.00	0.00	5.92
11	16	70.38	0.00	0.00	0.00	5.98	11.36	0.79	0.06	0.06	0.57	1.48	0.16	0.08	0.24	0.00	0.00	5.92
11	17	70.34	0.00	0.00	0.00	5.98	11.36	0.79	0.06	0.06	0.57	1.48	0.16	0.08	0.24	0.00	0.00	5.92
11	18	70.30	0.00	0.00	0.00	5.98	11.35	0.79	0.06	0.06	0.58	1.48	0.16	0.08	0.24	0.00	0.00	5.92
11	19	70.26	0.00	0.00	0.00	5.99	11.35	0.79	0.06	0.06	0.58	1.48	0.16	0.08	0.24	0.00	0.00	5.92
11	20	70.22	0.00	0.00	0.00	5.99	11.35	0.79	0.06	0.06	0.58	1.49	0.16	0.08	0.24	0.00	0.00	5.92
12	1	70.18	0.00	0.00	0.00	5.99	11.35	0.79	0.06	0.06	0.58	1.49	0.16	0.08	0.24	0.00	0.00	5.92
12	2	70.15	0.00	0.00	0.00	5.98	11.33	0.79	0.06	0.06	0.58	1.49	0.16	0.08	0.24	0.00	0.00	5.91
12	3	70.11	0.00	0.00	0.00	5.97	11.32	0.79	0.06	0.06	0.58	1.49	0.16	0.08	0.24	0.00	0.00	5.90
12	4	70.07	0.00	0.00	0.00	5.96	11.31	0.79	0.06	0.06	0.59	1.49	0.16	0.08	0.24	0.00	0.00	5.89
12	5	70.04	0.00	0.00	0.00	5.95	11.30	0.79	0.06	0.06	0.59	1.49	0.16	0.08	0.24	0.00	0.00	5.88
12	6	70.00	0.00	0.00	0.00	5.94	11.29	0.78	0.06	0.06	0.59	1.49	0.16	0.08	0.24	0.00	0.00	5.88
12	7	69.96	0.00	0.00	0.00	5.93	11.28	0.78	0.06	0.05	0.59	1.49	0.16	0.08	0.24	0.00	0.00	5.87
12	8	69.93	0.00	0.00	0.00	5.93	11.27	0.78	0.06	0.05	0.59	1.49	0.16	0.08	0.24	0.00	0.00	5.86
12	9	69.89	0.00	0.00	0.00	5.92	11.26	0.78	0.06	0.05	0.60	1.49	0.16	0.08	0.24	0.00	0.00	5.86
12	10	69.86	0.00	0.00	0.00	5.91	11.25	0.78	0.06	0.05	0.60	1.49	0.16	0.08	0.24	0.00	0.00	5.85
12	11	69.82	0.00	0.00	0.00	5.90	11.24	0.78	0.06	0.05	0.60	1.49	0.16	0.08	0.24	0.00	0.00	5.84

12	12	69.79	0.00	0.00	0.00	5.90	11.23	0.78	0.06	0.05	0.60	1.49	0.16	0.08	0.24	0.00	0.00	5.83
12	13	69.75	0.00	0.00	0.00	5.89	11.22	0.78	0.06	0.05	0.60	1.49	0.16	0.08	0.24	0.00	0.00	5.83
12	14	69.72	0.00	0.00	0.00	5.89	11.21	0.78	0.06	0.05	0.60	1.50	0.16	0.08	0.24	0.00	0.00	5.82
12	15	69.69	0.00	0.00	0.00	5.88	11.20	0.78	0.06	0.05	0.61	1.50	0.16	0.08	0.24	0.00	0.00	5.81
12	16	69.65	0.00	0.00	0.00	5.88	11.19	0.78	0.06	0.05	0.61	1.50	0.16	0.08	0.24	0.00	0.00	5.81
12	17	69.62	0.00	0.00	0.00	5.87	11.18	0.78	0.06	0.05	0.61	1.50	0.16	0.08	0.24	0.00	0.00	5.80
12	18	69.59	0.00	0.00	0.00	5.87	11.17	0.78	0.06	0.05	0.61	1.50	0.16	0.08	0.24	0.00	0.00	5.79
12	19	69.55	0.00	0.00	0.00	5.86	11.16	0.78	0.06	0.05	0.61	1.50	0.16	0.08	0.24	0.00	0.00	5.79
12	20	69.52	0.00	0.00	0.00	5.86	11.15	0.78	0.06	0.05	0.61	1.50	0.16	0.08	0.24	0.00	0.00	5.78
13	1	69.49	0.00	0.00	0.00	5.85	11.14	0.78	0.06	0.05	0.62	1.50	0.16	0.08	0.24	0.00	0.00	5.77
13	2	69.46	0.00	0.00	0.00	5.83	11.12	0.78	0.06	0.05	0.62	1.50	0.15	0.08	0.24	0.00	0.00	5.76
13	3	69.42	0.00	0.00	0.00	5.82	11.10	0.77	0.06	0.05	0.62	1.50	0.15	0.08	0.24	0.00	0.00	5.75
13	4	69.39	0.00	0.00	0.00	5.80	11.08	0.77	0.06	0.05	0.62	1.50	0.15	0.08	0.24	0.00	0.00	5.73
13	5	69.36	0.00	0.00	0.00	5.79	11.06	0.77	0.06	0.05	0.62	1.50	0.15	0.08	0.24	0.00	0.00	5.72
13	6	69.33	0.00	0.00	0.00	5.78	11.04	0.77	0.06	0.05	0.62	1.50	0.15	0.08	0.24	0.00	0.00	5.71
13	7	69.30	0.00	0.00	0.00	5.76	11.02	0.77	0.06	0.05	0.63	1.50	0.15	0.08	0.24	0.00	0.00	5.70
13	8	69.27	0.00	0.00	0.00	5.75	11.00	0.77	0.06	0.05	0.63	1.51	0.15	0.08	0.24	0.00	0.00	5.69
13	9	69.24	0.00	0.00	0.00	5.74	10.98	0.77	0.06	0.05	0.63	1.51	0.15	0.08	0.24	0.00	0.00	5.68
13	10	69.21	0.00	0.00	0.00	5.73	10.96	0.77	0.06	0.05	0.63	1.51	0.15	0.08	0.24	0.00	0.00	5.67
13	11	69.18	0.00	0.00	0.00	5.72	10.95	0.77	0.06	0.05	0.63	1.51	0.15	0.08	0.24	0.00	0.00	5.66
13	12	69.15	0.00	0.00	0.00	5.71	10.93	0.77	0.05	0.05	0.64	1.51	0.15	0.08	0.24	0.00	0.00	5.65

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 23
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** WATER QUALITY VARIABLES **

RCH NUM	ELE NUM	TEMP DEG-F	CM-1	CM-2	CM-3	DO MG/L	BOD MG/L	ORGN MG/L	NH3N MG/L	NO2N MG/L	NO3N MG/L	SUM-N MG/L	ORGP MG/L	DIS-P MG/L	SUM-P MG/L	COLI #/100ML	ANC	CHLA UG/L
13	13	69.12	0.00	0.00	0.00	5.69	10.91	0.77	0.05	0.05	0.64	1.51	0.15	0.09	0.24	0.00	0.00	5.64
13	14	69.09	0.00	0.00	0.00	5.68	10.89	0.77	0.05	0.05	0.64	1.51	0.15	0.09	0.24	0.00	0.00	5.63
13	15	69.07	0.00	0.00	0.00	5.67	10.87	0.77	0.05	0.05	0.64	1.51	0.15	0.09	0.24	0.00	0.00	5.62
13	16	69.04	0.00	0.00	0.00	5.67	10.86	0.76	0.05	0.05	0.64	1.51	0.15	0.09	0.24	0.00	0.00	5.61
13	17	69.01	0.00	0.00	0.00	5.66	10.84	0.76	0.05	0.05	0.64	1.51	0.15	0.09	0.24	0.00	0.00	5.60
13	18	68.98	0.00	0.00	0.00	5.65	10.82	0.76	0.05	0.05	0.65	1.51	0.15	0.09	0.24	0.00	0.00	5.59
13	19	68.95	0.00	0.00	0.00	5.64	10.81	0.76	0.05	0.05	0.65	1.51	0.15	0.09	0.24	0.00	0.00	5.58
13	20	68.92	0.00	0.00	0.00	5.63	10.79	0.76	0.05	0.05	0.65	1.51	0.15	0.09	0.24	0.00	0.00	5.57
14	1	68.89	0.00	0.00	0.00	5.63	10.77	0.76	0.05	0.05	0.65	1.51	0.15	0.09	0.24	0.00	0.00	5.56
14	2	68.86	0.00	0.00	0.00	5.62	10.74	0.76	0.05	0.05	0.65	1.51	0.15	0.09	0.24	0.00	0.00	5.56
14	3	68.83	0.00	0.00	0.00	5.62	10.72	0.76	0.05	0.05	0.66	1.52	0.15	0.09	0.24	0.00	0.00	5.55
14	4	68.80	0.00	0.00	0.00	5.62	10.70	0.76	0.05	0.05	0.66	1.52	0.15	0.09	0.24	0.00	0.00	5.54
14	5	68.77	0.00	0.00	0.00	5.62	10.68	0.76	0.05	0.05	0.66	1.52	0.15	0.09	0.24	0.00	0.00	5.54
14	6	68.74	0.00	0.00	0.00	5.62	10.65	0.76	0.05	0.05	0.66	1.52	0.15	0.09	0.24	0.00	0.00	5.53
14	7	68.71	0.00	0.00	0.00	5.61	10.63	0.76	0.05	0.05	0.66	1.52	0.15	0.09	0.24	0.00	0.00	5.52

14	8	68.68	0.00	0.00	0.00	5.61	10.61	0.76	0.05	0.05	0.66	1.52	0.15	0.09	0.24	0.00	0.00	5.52
14	9	68.65	0.00	0.00	0.00	5.61	10.59	0.75	0.05	0.05	0.67	1.52	0.15	0.09	0.24	0.00	0.00	5.51
14	10	68.62	0.00	0.00	0.00	5.61	10.57	0.75	0.05	0.05	0.67	1.52	0.15	0.09	0.24	0.00	0.00	5.50
14	11	68.59	0.00	0.00	0.00	5.61	10.55	0.75	0.05	0.05	0.67	1.52	0.15	0.09	0.24	0.00	0.00	5.50
14	12	68.56	0.00	0.00	0.00	5.61	10.53	0.75	0.05	0.05	0.67	1.52	0.15	0.09	0.24	0.00	0.00	5.49
14	13	68.53	0.00	0.00	0.00	5.61	10.50	0.75	0.05	0.05	0.67	1.52	0.15	0.09	0.24	0.00	0.00	5.49
14	14	68.50	0.00	0.00	0.00	5.61	10.48	0.75	0.05	0.05	0.67	1.52	0.15	0.09	0.24	0.00	0.00	5.48
14	15	68.47	0.00	0.00	0.00	5.61	10.46	0.75	0.05	0.05	0.68	1.52	0.15	0.09	0.24	0.00	0.00	5.47
14	16	68.44	0.00	0.00	0.00	5.61	10.44	0.75	0.05	0.05	0.68	1.52	0.14	0.09	0.24	0.00	0.00	5.47
14	17	68.42	0.00	0.00	0.00	5.61	10.42	0.75	0.05	0.05	0.68	1.53	0.14	0.09	0.23	0.00	0.00	5.46
14	18	68.39	0.00	0.00	0.00	5.61	10.40	0.75	0.05	0.05	0.68	1.53	0.14	0.09	0.23	0.00	0.00	5.46
14	19	68.36	0.00	0.00	0.00	5.61	10.38	0.75	0.05	0.05	0.68	1.53	0.14	0.09	0.23	0.00	0.00	5.45
14	20	68.33	0.00	0.00	0.00	5.61	10.36	0.75	0.05	0.05	0.68	1.53	0.14	0.09	0.23	0.00	0.00	5.44
15	1	68.30	0.00	0.00	0.00	5.62	10.34	0.75	0.05	0.04	0.69	1.53	0.14	0.09	0.23	0.00	0.00	5.44
15	2	68.27	0.00	0.00	0.00	5.63	10.31	0.75	0.05	0.04	0.69	1.53	0.14	0.09	0.23	0.00	0.00	5.44
15	3	68.24	0.00	0.00	0.00	5.63	10.29	0.74	0.05	0.04	0.69	1.53	0.14	0.09	0.23	0.00	0.00	5.44
15	4	68.21	0.00	0.00	0.00	5.64	10.27	0.74	0.05	0.04	0.69	1.53	0.14	0.09	0.23	0.00	0.00	5.44
15	5	68.18	0.00	0.00	0.00	5.65	10.24	0.74	0.05	0.04	0.69	1.53	0.14	0.09	0.23	0.00	0.00	5.44
15	6	68.15	0.00	0.00	0.00	5.66	10.22	0.74	0.05	0.04	0.69	1.53	0.14	0.09	0.23	0.00	0.00	5.43
15	7	68.12	0.00	0.00	0.00	5.67	10.20	0.74	0.05	0.04	0.69	1.53	0.14	0.09	0.23	0.00	0.00	5.43
15	8	68.09	0.00	0.00	0.00	5.67	10.17	0.74	0.05	0.04	0.70	1.53	0.14	0.09	0.23	0.00	0.00	5.43
15	9	68.07	0.00	0.00	0.00	5.68	10.15	0.74	0.05	0.04	0.70	1.53	0.14	0.09	0.23	0.00	0.00	5.43
15	10	68.04	0.00	0.00	0.00	5.69	10.13	0.74	0.05	0.04	0.70	1.53	0.14	0.09	0.23	0.00	0.00	5.43
15	11	68.01	0.00	0.00	0.00	5.70	10.10	0.74	0.05	0.04	0.70	1.53	0.14	0.09	0.23	0.00	0.00	5.43
15	12	67.98	0.00	0.00	0.00	5.71	10.08	0.74	0.05	0.04	0.70	1.54	0.14	0.09	0.23	0.00	0.00	5.43
15	13	67.95	0.00	0.00	0.00	5.71	10.06	0.74	0.05	0.04	0.70	1.54	0.14	0.09	0.23	0.00	0.00	5.42
15	14	67.92	0.00	0.00	0.00	5.72	10.04	0.74	0.05	0.04	0.71	1.54	0.14	0.09	0.23	0.00	0.00	5.42

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 24
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** WATER QUALITY VARIABLES **

RCH NUM	ELE NUM	TEMP DEG-F	CM-1	CM-2	CM-3	DO MG/L	BOD MG/L	ORGN MG/L	NH3N MG/L	NO2N MG/L	NO3N MG/L	SUM-N MG/L	ORGP MG/L	DIS-P MG/L	SUM-P MG/L	COLI #/100ML	ANC	CHLA UG/L
15	15	67.90	0.00	0.00	0.00	5.73	10.02	0.74	0.05	0.04	0.71	1.54	0.14	0.09	0.23	0.00	0.00	5.42
15	16	67.87	0.00	0.00	0.00	5.74	9.99	0.74	0.05	0.04	0.71	1.54	0.14	0.09	0.23	0.00	0.00	5.42
15	17	67.84	0.00	0.00	0.00	5.75	9.97	0.73	0.05	0.04	0.71	1.54	0.14	0.09	0.23	0.00	0.00	5.42
15	18	67.81	0.00	0.00	0.00	5.75	9.95	0.73	0.05	0.04	0.71	1.54	0.14	0.09	0.23	0.00	0.00	5.42
15	19	67.79	0.00	0.00	0.00	5.76	9.93	0.73	0.05	0.04	0.71	1.54	0.14	0.09	0.23	0.00	0.00	5.42
15	20	67.76	0.00	0.00	0.00	5.77	9.91	0.73	0.05	0.04	0.71	1.54	0.14	0.10	0.23	0.00	0.00	5.42
16	1	67.73	0.00	0.00	0.00	5.78	9.88	0.73	0.05	0.04	0.72	1.54	0.14	0.10	0.23	0.00	0.00	5.43
16	2	67.70	0.00	0.00	0.00	5.80	9.86	0.73	0.05	0.04	0.72	1.54	0.14	0.10	0.23	0.00	0.00	5.44
16	3	67.67	0.00	0.00	0.00	5.82	9.83	0.73	0.05	0.04	0.72	1.54	0.14	0.10	0.23	0.00	0.00	5.45

16	4	67.64	0.00	0.00	0.00	5.83	9.81	0.73	0.05	0.04	0.72	1.54	0.14	0.10	0.23	0.00	0.00	5.46
16	5	67.62	0.00	0.00	0.00	5.85	9.79	0.73	0.05	0.04	0.72	1.54	0.14	0.10	0.23	0.00	0.00	5.47
16	6	67.59	0.00	0.00	0.00	5.86	9.76	0.73	0.05	0.04	0.72	1.54	0.14	0.10	0.23	0.00	0.00	5.48
16	7	67.56	0.00	0.00	0.00	5.88	9.74	0.73	0.05	0.04	0.72	1.55	0.14	0.10	0.23	0.00	0.00	5.49
16	8	67.53	0.00	0.00	0.00	5.89	9.72	0.73	0.05	0.04	0.73	1.55	0.14	0.10	0.23	0.00	0.00	5.50
16	9	67.50	0.00	0.00	0.00	5.91	9.69	0.73	0.05	0.04	0.73	1.55	0.14	0.10	0.23	0.00	0.00	5.51
16	10	67.48	0.00	0.00	0.00	5.92	9.67	0.73	0.05	0.04	0.73	1.55	0.14	0.10	0.23	0.00	0.00	5.52
16	11	67.45	0.00	0.00	0.00	5.94	9.65	0.73	0.05	0.04	0.73	1.55	0.14	0.10	0.23	0.00	0.00	5.53
16	12	67.42	0.00	0.00	0.00	5.95	9.62	0.72	0.05	0.04	0.73	1.55	0.14	0.10	0.23	0.00	0.00	5.54
16	13	67.39	0.00	0.00	0.00	5.96	9.60	0.72	0.05	0.04	0.73	1.55	0.13	0.10	0.23	0.00	0.00	5.55
16	14	67.37	0.00	0.00	0.00	5.98	9.58	0.72	0.05	0.04	0.73	1.55	0.13	0.10	0.23	0.00	0.00	5.56
16	15	67.34	0.00	0.00	0.00	5.99	9.56	0.72	0.05	0.04	0.74	1.55	0.13	0.10	0.23	0.00	0.00	5.57
16	16	67.32	0.00	0.00	0.00	6.01	9.53	0.72	0.05	0.04	0.74	1.55	0.13	0.10	0.23	0.00	0.00	5.58
16	17	67.29	0.00	0.00	0.00	6.02	9.51	0.72	0.05	0.04	0.74	1.55	0.13	0.10	0.23	0.00	0.00	5.59
16	18	67.26	0.00	0.00	0.00	6.03	9.49	0.72	0.05	0.04	0.74	1.55	0.13	0.10	0.23	0.00	0.00	5.60
16	19	67.24	0.00	0.00	0.00	6.05	9.47	0.72	0.05	0.04	0.74	1.55	0.13	0.10	0.23	0.00	0.00	5.61
16	20	67.21	0.00	0.00	0.00	6.06	9.45	0.72	0.05	0.04	0.74	1.55	0.13	0.10	0.23	0.00	0.00	5.62
17	1	67.19	0.00	0.00	0.00	6.08	9.44	0.72	0.05	0.04	0.74	1.56	0.13	0.10	0.23	0.00	0.00	5.64
17	2	67.16	0.00	0.00	0.00	6.10	9.43	0.72	0.05	0.04	0.75	1.56	0.13	0.10	0.23	0.00	0.00	5.65
17	3	67.13	0.00	0.00	0.00	6.12	9.43	0.72	0.05	0.04	0.75	1.56	0.13	0.10	0.23	0.00	0.00	5.67
17	4	67.11	0.00	0.00	0.00	6.13	9.42	0.72	0.05	0.04	0.75	1.56	0.13	0.10	0.23	0.00	0.00	5.68
17	5	67.08	0.00	0.00	0.00	6.15	9.42	0.72	0.05	0.04	0.75	1.56	0.13	0.10	0.23	0.00	0.00	5.70
17	6	67.05	0.00	0.00	0.00	6.17	9.41	0.72	0.05	0.04	0.75	1.56	0.13	0.10	0.23	0.00	0.00	5.71
17	7	67.03	0.00	0.00	0.00	6.19	9.41	0.72	0.05	0.04	0.75	1.56	0.13	0.10	0.23	0.00	0.00	5.73
17	8	67.00	0.00	0.00	0.00	6.20	9.40	0.72	0.05	0.04	0.75	1.56	0.13	0.10	0.23	0.00	0.00	5.75
17	9	66.97	0.00	0.00	0.00	6.22	9.40	0.72	0.05	0.04	0.75	1.57	0.13	0.10	0.23	0.00	0.00	5.76
17	10	66.95	0.00	0.00	0.00	6.24	9.39	0.72	0.05	0.04	0.76	1.57	0.13	0.10	0.23	0.00	0.00	5.78
17	11	66.92	0.00	0.00	0.00	6.25	9.39	0.72	0.05	0.04	0.76	1.57	0.13	0.10	0.23	0.00	0.00	5.79
17	12	66.90	0.00	0.00	0.00	6.27	9.38	0.72	0.05	0.04	0.76	1.57	0.13	0.10	0.23	0.00	0.00	5.81

STREAM QUALITY SIMULATION — OUTPUT PAGE NUMBER 25
QUAL-2E STREAM QUALITY ROUTING MODEL — Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** ALGAE DATA **

ELE ORD	RCH NUM	ELE NUM	CHLA UG/L	ALGY GRWTH 1/DAY	ALGY RESP 1/DAY	ALGY SETT FT/DA	A P/R RATIO *	NET P-R MG/L-D	NH3 PREF *	NH3-N FRACT N-UPTKE *	LIGHT EXTCO 1/FT	ALGAE GROWTH RATE ATTEN FACTORS LIGHT *	NITRGN *	PHSPRS *
1	1	1	13.77	0.03	0.05	0.05	0.43	-0.02	0.50	0.15	0.85	0.08	0.50	0.33
2	1	2	13.74	0.03	0.05	0.05	0.44	-0.02	0.50	0.15	0.85	0.08	0.50	0.33
3	1	3	13.72	0.03	0.05	0.05	0.44	-0.02	0.50	0.15	0.85	0.08	0.50	0.33
4	1	4	13.69	0.03	0.05	0.05	0.44	-0.02	0.50	0.15	0.85	0.08	0.50	0.33
5	1	5	13.66	0.03	0.05	0.05	0.44	-0.02	0.50	0.15	0.85	0.08	0.50	0.33
6	1	6	13.64	0.03	0.05	0.05	0.44	-0.02	0.50	0.15	0.85	0.08	0.50	0.33

7	1	7	13.61	0.03	0.05	0.05	0.44	-0.02	0.50	0.16	0.85	0.08	0.50	0.33
8	1	8	13.58	0.03	0.05	0.05	0.44	-0.02	0.50	0.16	0.85	0.08	0.51	0.34
9	1	9	13.56	0.03	0.05	0.05	0.44	-0.02	0.50	0.16	0.85	0.08	0.51	0.34
10	1	10	13.53	0.03	0.05	0.05	0.44	-0.02	0.50	0.16	0.85	0.08	0.51	0.34
11	1	11	13.50	0.03	0.05	0.05	0.44	-0.02	0.50	0.16	0.85	0.08	0.51	0.34
12	1	12	13.48	0.03	0.05	0.05	0.44	-0.02	0.50	0.16	0.85	0.08	0.51	0.34
13	1	13	13.45	0.03	0.05	0.05	0.45	-0.02	0.50	0.16	0.85	0.08	0.51	0.34
14	1	14	13.42	0.03	0.05	0.05	0.45	-0.02	0.50	0.16	0.85	0.08	0.51	0.34
15	1	15	13.40	0.03	0.05	0.05	0.45	-0.02	0.50	0.16	0.85	0.08	0.51	0.34
16	1	16	13.37	0.03	0.05	0.05	0.45	-0.02	0.50	0.16	0.85	0.08	0.51	0.34
17	1	17	13.35	0.03	0.05	0.05	0.45	-0.02	0.50	0.16	0.85	0.08	0.51	0.34
18	1	18	13.32	0.03	0.05	0.05	0.45	-0.02	0.50	0.16	0.85	0.08	0.51	0.34
19	1	19	13.29	0.03	0.05	0.05	0.45	-0.02	0.50	0.16	0.85	0.08	0.51	0.34
20	1	20	13.27	0.03	0.05	0.05	0.45	-0.02	0.50	0.16	0.85	0.08	0.51	0.34
21	2	1	13.25	0.03	0.05	0.05	0.49	-0.01	0.50	0.16	0.85	0.09	0.51	0.34
22	2	2	13.23	0.03	0.05	0.05	0.49	-0.01	0.50	0.16	0.85	0.09	0.51	0.34
23	2	3	13.20	0.03	0.05	0.05	0.49	-0.01	0.50	0.16	0.85	0.09	0.51	0.34
24	2	4	13.18	0.03	0.05	0.05	0.49	-0.01	0.50	0.16	0.85	0.09	0.52	0.34
25	2	5	13.16	0.03	0.05	0.05	0.49	-0.01	0.50	0.16	0.85	0.09	0.52	0.34
26	2	6	13.14	0.03	0.05	0.05	0.49	-0.01	0.50	0.16	0.85	0.09	0.52	0.34
27	2	7	13.12	0.03	0.05	0.05	0.49	-0.01	0.50	0.17	0.85	0.09	0.52	0.34
28	2	8	13.32	0.03	0.05	0.05	0.50	-0.01	0.50	0.16	0.85	0.09	0.52	0.34
29	2	9	13.30	0.03	0.05	0.05	0.50	-0.01	0.50	0.16	0.85	0.09	0.52	0.35
30	2	10	13.26	0.03	0.05	0.05	0.50	-0.01	0.50	0.16	0.85	0.09	0.52	0.35
31	2	11	13.17	0.03	0.05	0.05	0.51	-0.01	0.50	0.16	0.85	0.09	0.52	0.35
32	2	12	10.10	0.04	0.06	0.06	0.52	-0.01	0.50	0.15	0.82	0.09	0.52	0.34
33	2	13	10.08	0.04	0.06	0.06	0.52	-0.01	0.50	0.15	0.82	0.09	0.52	0.34
34	2	14	10.06	0.04	0.06	0.06	0.52	-0.01	0.50	0.15	0.82	0.09	0.53	0.34
35	2	15	10.06	0.04	0.06	0.06	0.53	-0.01	0.50	0.16	0.82	0.09	0.53	0.35
36	2	16	10.04	0.04	0.06	0.06	0.53	-0.01	0.50	0.16	0.82	0.09	0.53	0.35
37	2	17	9.99	0.05	0.06	0.06	0.60	-0.01	0.50	0.33	0.82	0.09	0.59	0.35
38	2	18	9.98	0.05	0.06	0.06	0.60	-0.01	0.50	0.33	0.82	0.09	0.59	0.35
39	2	19	9.97	0.05	0.06	0.06	0.60	-0.01	0.50	0.33	0.82	0.09	0.59	0.36
40	2	20	9.95	0.05	0.06	0.06	0.60	-0.01	0.50	0.33	0.82	0.09	0.59	0.36
41	3	1	9.94	0.04	0.06	0.06	0.54	-0.01	0.50	0.32	1.00	0.08	0.59	0.36
42	3	2	9.92	0.04	0.06	0.06	0.54	-0.01	0.50	0.32	1.00	0.08	0.59	0.36

STREAM QUALITY SIMULATION — OUTPUT PAGE NUMBER 26
QUAL-2E STREAM QUALITY ROUTING MODEL — Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** ALGAE DATA **

ELE ORD	RCH NUM	ELE NUM	CHLA UG/L	ALGY GRWTH 1/DAY	ALGY RESP 1/DAY	ALGY SETT FT/DA	A P/R RATIO *	NET P-R MG/L-D	NH3 PREF *	NH3-N FRACT N-UPTKE *	LIGHT EXTCO 1/FT	ALGAE GROWTH RATE ATTEN FACTORS LIGHT *	NITRGN *	PHSPRS *

43	3	3	9.91	0.04	0.06	0.06	0.54	-0.01	0.50	0.32	1.00	0.08	0.59	0.36
44	3	4	9.89	0.04	0.06	0.06	0.54	-0.01	0.50	0.31	1.00	0.08	0.59	0.36
45	3	5	9.87	0.04	0.06	0.05	0.57	-0.01	0.50	0.28	1.00	0.08	0.62	0.36
46	3	6	9.85	0.04	0.06	0.05	0.57	-0.01	0.50	0.27	1.00	0.08	0.62	0.36
47	3	7	9.84	0.04	0.06	0.05	0.57	-0.01	0.50	0.27	1.00	0.08	0.62	0.36
48	3	8	9.82	0.04	0.06	0.05	0.57	-0.01	0.50	0.27	1.00	0.08	0.62	0.36
49	3	9	9.81	0.04	0.06	0.05	0.57	-0.01	0.50	0.27	1.00	0.08	0.62	0.36
50	3	10	9.83	0.04	0.06	0.05	0.57	-0.01	0.50	0.26	1.00	0.08	0.61	0.36
51	3	11	9.82	0.04	0.06	0.05	0.57	-0.01	0.50	0.26	1.00	0.08	0.61	0.36
52	3	12	9.80	0.04	0.06	0.05	0.57	-0.01	0.50	0.26	1.00	0.08	0.61	0.36
53	3	13	9.79	0.04	0.06	0.05	0.57	-0.01	0.50	0.26	1.00	0.08	0.61	0.36
54	3	14	9.78	0.04	0.06	0.05	0.57	-0.01	0.50	0.26	1.00	0.08	0.61	0.36
55	3	15	9.77	0.04	0.06	0.05	0.58	-0.01	0.50	0.25	1.00	0.08	0.61	0.37
56	3	16	9.75	0.04	0.06	0.05	0.58	-0.01	0.50	0.25	1.00	0.08	0.61	0.37
57	3	17	9.74	0.04	0.06	0.05	0.58	-0.01	0.50	0.25	1.00	0.08	0.61	0.37
58	3	18	9.73	0.04	0.06	0.05	0.58	-0.01	0.50	0.25	1.00	0.08	0.61	0.37
59	3	19	9.71	0.04	0.06	0.05	0.58	-0.01	0.50	0.25	1.00	0.08	0.61	0.37
60	3	20	9.70	0.04	0.06	0.05	0.58	-0.01	0.50	0.24	1.00	0.08	0.61	0.37
61	4	1	9.68	0.03	0.06	0.05	0.44	-0.01	0.50	0.24	1.00	0.06	0.61	0.37
62	4	2	9.65	0.03	0.06	0.05	0.45	-0.01	0.50	0.24	1.00	0.06	0.61	0.37
63	4	3	9.63	0.03	0.06	0.05	0.45	-0.01	0.50	0.24	1.00	0.06	0.61	0.37
64	4	4	9.60	0.03	0.06	0.05	0.45	-0.01	0.50	0.23	1.00	0.06	0.61	0.38
65	4	5	9.58	0.03	0.06	0.05	0.45	-0.01	0.50	0.23	1.00	0.06	0.61	0.38
66	4	6	9.55	0.03	0.06	0.05	0.45	-0.01	0.50	0.23	1.00	0.06	0.62	0.38
67	4	7	9.52	0.03	0.06	0.05	0.46	-0.01	0.50	0.23	1.00	0.06	0.62	0.38
68	4	8	9.50	0.03	0.06	0.05	0.46	-0.01	0.50	0.22	1.00	0.06	0.62	0.38
69	4	9	9.48	0.03	0.06	0.05	0.46	-0.01	0.50	0.22	1.00	0.06	0.62	0.38
70	4	10	9.45	0.03	0.06	0.05	0.46	-0.01	0.50	0.22	1.00	0.06	0.62	0.38
71	4	11	9.43	0.03	0.06	0.05	0.46	-0.01	0.50	0.22	1.00	0.06	0.62	0.39
72	4	12	9.40	0.03	0.06	0.05	0.46	-0.01	0.50	0.21	1.00	0.06	0.62	0.39
73	4	13	9.38	0.03	0.06	0.05	0.47	-0.01	0.50	0.21	1.00	0.06	0.62	0.39
74	4	14	9.36	0.03	0.06	0.05	0.47	-0.01	0.50	0.21	1.00	0.06	0.62	0.39
75	4	15	9.33	0.03	0.06	0.05	0.47	-0.01	0.50	0.21	1.00	0.06	0.62	0.39
76	4	16	9.31	0.03	0.06	0.05	0.47	-0.01	0.50	0.21	1.00	0.06	0.62	0.39
77	4	17	9.29	0.03	0.06	0.05	0.47	-0.01	0.50	0.20	1.00	0.06	0.62	0.39
78	4	18	9.26	0.03	0.06	0.05	0.48	-0.01	0.50	0.20	1.00	0.06	0.62	0.39
79	4	19	9.24	0.03	0.06	0.05	0.48	-0.01	0.50	0.20	1.00	0.06	0.62	0.40
80	4	20	9.22	0.03	0.06	0.05	0.48	-0.01	0.50	0.20	1.00	0.06	0.62	0.40
81	5	1	9.19	0.03	0.06	0.05	0.38	-0.01	0.50	0.20	1.00	0.05	0.62	0.40
82	5	2	9.15	0.03	0.06	0.05	0.39	-0.01	0.50	0.19	1.00	0.05	0.62	0.40
83	5	3	9.12	0.03	0.06	0.05	0.39	-0.01	0.50	0.19	1.00	0.05	0.62	0.40
84	5	4	9.08	0.03	0.06	0.05	0.39	-0.01	0.50	0.19	1.00	0.05	0.62	0.40

** ALGAE DATA **

ELE ORD	RCH NUM	ELE NUM	CHLA UG/L	ALGY GRWTH 1/DAY	ALGY RESP 1/DAY	ALGY SETT FT/DA	A P/R RATIO *	NET P-R MG/L-D	NH3 PREF *	NH3-N FRACT N-UPTKE *	LIGHT EXTCO 1/FT	ALGAE GROWTH RATE ATTEN FACTORS LIGHT *	NITRGN *	PHSPRS *
85	5	5	9.05	0.03	0.06	0.05	0.39	-0.01	0.50	0.19	1.00	0.05	0.62	0.40
86	5	6	9.01	0.03	0.06	0.05	0.39	-0.01	0.50	0.18	1.00	0.05	0.62	0.41
87	5	7	8.98	0.03	0.06	0.05	0.40	-0.01	0.50	0.18	1.00	0.05	0.63	0.41
88	5	8	8.95	0.03	0.06	0.05	0.40	-0.01	0.50	0.18	1.00	0.05	0.63	0.41
89	5	9	8.91	0.03	0.06	0.05	0.40	-0.01	0.50	0.18	1.00	0.05	0.63	0.41
90	5	10	8.88	0.03	0.06	0.05	0.40	-0.01	0.50	0.17	0.99	0.05	0.63	0.41
91	5	11	8.85	0.03	0.06	0.05	0.40	-0.01	0.50	0.17	0.99	0.05	0.63	0.41
92	5	12	8.82	0.03	0.06	0.05	0.41	-0.01	0.50	0.17	0.99	0.05	0.63	0.42
93	5	13	8.78	0.03	0.06	0.05	0.41	-0.01	0.50	0.17	0.99	0.05	0.63	0.42
94	5	14	8.75	0.03	0.06	0.05	0.41	-0.01	0.50	0.17	0.99	0.05	0.63	0.42
95	5	15	8.72	0.03	0.06	0.05	0.41	-0.01	0.50	0.16	0.99	0.05	0.63	0.42
96	5	16	8.69	0.03	0.06	0.05	0.41	-0.01	0.50	0.16	0.99	0.05	0.63	0.42
97	5	17	8.66	0.03	0.06	0.05	0.42	-0.01	0.50	0.16	0.99	0.05	0.63	0.42
98	5	18	8.63	0.03	0.06	0.05	0.42	-0.01	0.50	0.16	0.99	0.05	0.63	0.42
99	5	19	8.60	0.03	0.06	0.05	0.42	-0.01	0.50	0.16	0.99	0.05	0.63	0.43
100	5	20	8.57	0.03	0.06	0.05	0.42	-0.01	0.50	0.16	0.99	0.05	0.63	0.43
101	6	1	8.54	0.03	0.06	0.05	0.43	-0.01	0.50	0.15	0.99	0.05	0.64	0.43
102	6	2	8.51	0.03	0.06	0.05	0.43	-0.01	0.50	0.15	0.99	0.05	0.64	0.43
103	6	3	8.48	0.03	0.06	0.05	0.43	-0.01	0.50	0.15	0.99	0.05	0.64	0.43
104	6	4	8.45	0.03	0.06	0.05	0.43	-0.01	0.50	0.15	0.99	0.05	0.64	0.43
105	6	5	8.42	0.03	0.05	0.05	0.43	-0.01	0.50	0.15	0.99	0.05	0.64	0.43
106	6	6	8.39	0.03	0.05	0.05	0.44	-0.01	0.50	0.15	0.99	0.05	0.64	0.44
107	6	7	8.36	0.03	0.05	0.05	0.44	-0.01	0.50	0.14	0.99	0.05	0.64	0.44
108	6	8	8.33	0.03	0.05	0.05	0.44	-0.01	0.50	0.14	0.99	0.05	0.64	0.44
109	6	9	8.30	0.03	0.05	0.05	0.44	-0.01	0.50	0.14	0.99	0.05	0.64	0.44
110	6	10	8.27	0.03	0.05	0.05	0.44	-0.01	0.50	0.14	0.99	0.05	0.64	0.44
111	6	11	8.24	0.03	0.05	0.05	0.45	-0.01	0.50	0.14	0.99	0.05	0.64	0.44
112	6	12	8.21	0.03	0.05	0.05	0.45	-0.01	0.50	0.14	0.99	0.05	0.64	0.44
113	6	13	8.18	0.03	0.05	0.05	0.45	-0.01	0.50	0.14	0.99	0.05	0.65	0.45
114	6	14	8.16	0.03	0.05	0.05	0.45	-0.01	0.50	0.14	0.99	0.05	0.65	0.45
115	6	15	8.13	0.03	0.05	0.05	0.46	-0.01	0.50	0.13	0.99	0.05	0.65	0.45
116	6	16	8.14	0.03	0.05	0.05	0.47	-0.01	0.50	0.14	0.99	0.05	0.65	0.46
117	6	17	8.11	0.03	0.05	0.05	0.47	-0.01	0.50	0.14	0.99	0.05	0.65	0.46
118	6	18	8.09	0.03	0.05	0.05	0.47	-0.01	0.50	0.14	0.99	0.05	0.65	0.46
119	6	19	8.06	0.03	0.05	0.05	0.47	-0.01	0.50	0.13	0.99	0.05	0.65	0.46
120	6	20	8.03	0.03	0.05	0.05	0.47	-0.01	0.50	0.13	0.99	0.05	0.65	0.46
121	7	1	8.01	0.03	0.05	0.05	0.48	-0.01	0.50	0.13	0.99	0.05	0.65	0.46
122	7	2	7.98	0.03	0.05	0.05	0.48	-0.01	0.50	0.13	0.99	0.05	0.65	0.47
123	7	3	7.95	0.03	0.05	0.05	0.49	-0.01	0.50	0.13	0.99	0.05	0.65	0.47

124	7	4	7.89	0.03	0.05	0.05	0.49	-0.01	0.50	0.13	0.99	0.05	0.66	0.47
125	7	5	6.58	0.04	0.06	0.06	0.49	-0.01	0.50	0.13	0.98	0.05	0.65	0.46
126	7	6	6.55	0.04	0.06	0.06	0.49	-0.01	0.50	0.13	0.98	0.05	0.65	0.46

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 28
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** ALGAE DATA **

ELE ORD	RCH NUM	ELE NUM	CHLA UG/L	ALGY GRWTH 1/DAY	ALGY RESP 1/DAY	ALGY SETT FT/DA	A P/R RATIO *	NET P-R MG/L-D	NH3 PREF *	NH3-N FRACT N-UPTKE *	LIGHT EXTCO 1/FT	ALGAE GROWTH RATE ATTEN FACTORS LIGHT *	NITRGN *	PHSPRS *
127	7	7	6.53	0.04	0.06	0.06	0.49	-0.01	0.50	0.12	0.98	0.05	0.65	0.47
128	7	8	6.51	0.04	0.06	0.06	0.49	-0.01	0.50	0.12	0.98	0.05	0.65	0.47
129	7	9	6.48	0.04	0.06	0.06	0.50	-0.01	0.50	0.12	0.97	0.05	0.66	0.47
130	7	10	6.46	0.04	0.06	0.06	0.50	-0.01	0.50	0.12	0.97	0.05	0.66	0.47
131	7	11	6.44	0.04	0.06	0.06	0.50	-0.01	0.50	0.12	0.97	0.05	0.66	0.47
132	7	12	6.41	0.04	0.06	0.06	0.50	-0.01	0.50	0.12	0.97	0.05	0.66	0.47
133	7	13	6.39	0.04	0.06	0.06	0.50	-0.01	0.50	0.12	0.97	0.05	0.66	0.48
134	7	14	6.37	0.04	0.06	0.06	0.51	-0.01	0.50	0.12	0.97	0.05	0.66	0.48
135	7	15	6.35	0.04	0.06	0.06	0.51	-0.01	0.50	0.12	0.97	0.05	0.66	0.48
136	7	16	6.33	0.04	0.06	0.06	0.51	-0.01	0.50	0.12	0.97	0.05	0.66	0.48
137	7	17	6.31	0.04	0.06	0.06	0.51	-0.01	0.50	0.11	0.97	0.05	0.66	0.48
138	7	18	6.28	0.04	0.06	0.06	0.52	-0.01	0.50	0.11	0.97	0.05	0.66	0.48
139	7	19	6.26	0.04	0.06	0.06	0.52	-0.01	0.50	0.11	0.97	0.05	0.66	0.48
140	7	20	6.24	0.04	0.06	0.05	0.52	-0.01	0.50	0.11	0.97	0.05	0.67	0.49
141	8	1	6.22	0.04	0.06	0.05	0.53	-0.01	0.50	0.11	0.97	0.05	0.67	0.49
142	8	2	6.20	0.04	0.06	0.05	0.53	-0.01	0.50	0.11	0.97	0.05	0.67	0.49
143	8	3	6.18	0.04	0.06	0.05	0.53	-0.01	0.50	0.11	0.97	0.05	0.67	0.49
144	8	4	6.16	0.04	0.06	0.05	0.53	-0.01	0.50	0.11	0.97	0.05	0.67	0.49
145	8	5	6.14	0.04	0.06	0.05	0.54	-0.01	0.50	0.11	0.97	0.05	0.67	0.49
146	8	6	6.12	0.04	0.06	0.05	0.54	-0.01	0.50	0.11	0.97	0.05	0.67	0.49
147	8	7	6.10	0.04	0.06	0.05	0.54	-0.01	0.50	0.11	0.97	0.05	0.67	0.49
148	8	8	6.08	0.04	0.06	0.05	0.54	-0.01	0.50	0.11	0.97	0.05	0.67	0.50
149	8	9	6.06	0.04	0.06	0.05	0.55	-0.01	0.50	0.11	0.97	0.05	0.67	0.50
150	8	10	6.05	0.04	0.06	0.05	0.55	-0.01	0.50	0.11	0.97	0.05	0.67	0.50
151	8	11	6.03	0.04	0.06	0.05	0.55	-0.01	0.50	0.11	0.97	0.05	0.67	0.50
152	8	12	6.01	0.04	0.06	0.05	0.55	-0.01	0.50	0.10	0.97	0.05	0.68	0.50
153	8	13	5.99	0.04	0.06	0.05	0.55	-0.01	0.50	0.10	0.97	0.05	0.68	0.50
154	8	14	5.97	0.04	0.06	0.05	0.56	-0.01	0.50	0.10	0.97	0.05	0.68	0.50
155	8	15	5.96	0.04	0.06	0.05	0.56	-0.01	0.50	0.10	0.97	0.05	0.68	0.51
156	8	16	5.94	0.04	0.06	0.05	0.56	-0.01	0.50	0.10	0.97	0.05	0.68	0.51
157	8	17	5.93	0.04	0.06	0.05	0.57	-0.01	0.50	0.11	0.97	0.05	0.68	0.51
158	8	18	6.11	0.05	0.06	0.05	0.69	0.00	0.50	0.19	0.97	0.05	0.70	0.61
159	8	19	6.10	0.05	0.06	0.05	0.69	0.00	0.50	0.19	0.97	0.05	0.70	0.61
160	8	20	6.09	0.05	0.06	0.05	0.69	0.00	0.50	0.18	0.97	0.05	0.70	0.61

161	9	1	6.09	0.05	0.06	0.05	0.70	0.00	0.50	0.18	0.97	0.05	0.70	0.61
162	9	2	6.08	0.05	0.06	0.05	0.70	0.00	0.50	0.18	0.97	0.05	0.70	0.61
163	9	3	6.07	0.05	0.06	0.05	0.71	0.00	0.50	0.18	0.97	0.05	0.70	0.61
164	9	4	5.97	0.06	0.06	0.05	0.77	0.00	0.50	0.17	0.97	0.05	0.74	0.63
165	9	5	5.97	0.06	0.06	0.05	0.77	0.00	0.50	0.17	0.97	0.05	0.74	0.63
166	9	6	5.96	0.06	0.06	0.05	0.77	0.00	0.50	0.17	0.97	0.05	0.74	0.63
167	9	7	5.96	0.06	0.06	0.05	0.77	0.00	0.50	0.16	0.97	0.05	0.74	0.63
168	9	8	5.96	0.06	0.06	0.05	0.77	0.00	0.50	0.16	0.97	0.05	0.74	0.63

***** STEADY STATE SIMULATION *****

** ALGAE DATA **

ELE ORD	RCH NUM	ELE NUM	CHLA UG/L	ALGY GRWTH 1/DAY	ALGY RESP 1/DAY	ALGY SETT FT/DA	A P/R RATIO *	NET P-R MG/L-D	NH3 PREF *	NH3-N FRACT N-UPTKE *	LIGHT EXTCO 1/FT	ALGAE GROWTH RATE ATTEN FACTORS LIGHT *	NITRGN *	PHSPRS *
169	9	9	5.95	0.06	0.06	0.05	0.77	0.00	0.50	0.16	0.97	0.05	0.75	0.63
170	9	10	5.95	0.06	0.06	0.05	0.77	0.00	0.50	0.16	0.97	0.05	0.75	0.63
171	9	11	5.95	0.06	0.06	0.05	0.78	0.00	0.50	0.16	0.97	0.05	0.75	0.63
172	9	12	5.94	0.06	0.06	0.05	0.78	0.00	0.50	0.15	0.97	0.05	0.75	0.63
173	9	13	5.94	0.06	0.06	0.05	0.78	0.00	0.50	0.15	0.97	0.05	0.75	0.63
174	9	14	5.94	0.06	0.06	0.05	0.78	0.00	0.50	0.15	0.97	0.05	0.75	0.63
175	9	15	5.94	0.06	0.06	0.05	0.78	0.00	0.50	0.15	0.97	0.05	0.75	0.64
176	9	16	5.93	0.06	0.06	0.05	0.78	0.00	0.50	0.14	0.97	0.05	0.75	0.64
177	9	17	5.93	0.06	0.06	0.05	0.78	0.00	0.50	0.14	0.97	0.05	0.75	0.64
178	9	18	5.93	0.06	0.06	0.05	0.78	0.00	0.50	0.14	0.97	0.05	0.75	0.64
179	9	19	5.93	0.06	0.06	0.05	0.79	0.00	0.50	0.14	0.97	0.05	0.75	0.64
180	9	20	5.92	0.06	0.06	0.05	0.79	0.00	0.50	0.14	0.97	0.05	0.75	0.64
181	10	1	5.92	0.06	0.06	0.05	0.80	0.00	0.50	0.13	0.97	0.05	0.75	0.64
182	10	2	5.92	0.06	0.06	0.05	0.80	0.00	0.50	0.13	0.97	0.05	0.75	0.64
183	10	3	5.92	0.06	0.06	0.05	0.80	0.00	0.50	0.13	0.97	0.05	0.75	0.64
184	10	4	5.92	0.06	0.06	0.05	0.81	0.00	0.50	0.13	0.97	0.05	0.75	0.64
185	10	5	5.92	0.06	0.06	0.05	0.81	0.00	0.50	0.13	0.97	0.05	0.75	0.64
186	10	6	5.92	0.06	0.06	0.05	0.81	0.00	0.50	0.13	0.97	0.05	0.75	0.64
187	10	7	5.92	0.06	0.05	0.05	0.81	0.00	0.50	0.13	0.97	0.05	0.75	0.64
188	10	8	5.92	0.06	0.05	0.05	0.81	0.00	0.50	0.12	0.97	0.05	0.75	0.64
189	10	9	5.92	0.06	0.05	0.05	0.81	0.00	0.50	0.12	0.97	0.05	0.75	0.64
190	10	10	5.92	0.06	0.05	0.05	0.81	0.00	0.50	0.12	0.97	0.05	0.75	0.65
191	10	11	5.91	0.06	0.05	0.05	0.81	0.00	0.50	0.12	0.97	0.05	0.75	0.65
192	10	12	5.91	0.06	0.05	0.05	0.81	0.00	0.50	0.12	0.97	0.05	0.75	0.65
193	10	13	5.91	0.06	0.05	0.05	0.82	0.00	0.50	0.12	0.97	0.05	0.75	0.65
194	10	14	5.91	0.06	0.05	0.05	0.82	0.00	0.50	0.12	0.97	0.05	0.75	0.65
195	10	15	5.91	0.06	0.05	0.05	0.82	0.00	0.50	0.12	0.97	0.05	0.75	0.65

196	10	16	5.91	0.06	0.05	0.05	0.82	0.00	0.50	0.11	0.97	0.05	0.75	0.65
197	10	17	5.91	0.06	0.05	0.05	0.82	0.00	0.50	0.11	0.97	0.05	0.75	0.65
198	10	18	5.91	0.06	0.05	0.05	0.82	0.00	0.50	0.11	0.97	0.05	0.75	0.65
199	10	19	5.91	0.06	0.05	0.05	0.82	0.00	0.50	0.11	0.97	0.05	0.75	0.65
200	10	20	5.91	0.06	0.05	0.05	0.82	0.00	0.50	0.11	0.97	0.05	0.75	0.65
201	11	1	5.91	0.06	0.05	0.05	0.84	0.00	0.50	0.11	0.97	0.05	0.76	0.65
202	11	2	5.91	0.06	0.05	0.05	0.84	0.00	0.50	0.11	0.97	0.05	0.76	0.65
203	11	3	5.91	0.06	0.05	0.05	0.84	0.00	0.50	0.11	0.97	0.05	0.76	0.65
204	11	4	5.91	0.06	0.05	0.05	0.84	0.00	0.50	0.11	0.97	0.05	0.76	0.65
205	11	5	5.91	0.06	0.05	0.05	0.84	0.00	0.50	0.11	0.97	0.05	0.76	0.65
206	11	6	5.91	0.06	0.05	0.05	0.84	0.00	0.50	0.11	0.97	0.05	0.76	0.65
207	11	7	5.91	0.06	0.05	0.05	0.84	0.00	0.50	0.10	0.97	0.05	0.76	0.65
208	11	8	5.91	0.06	0.05	0.05	0.84	0.00	0.50	0.10	0.97	0.05	0.76	0.66
209	11	9	5.91	0.06	0.05	0.05	0.85	0.00	0.50	0.10	0.97	0.05	0.76	0.66
210	11	10	5.91	0.06	0.05	0.05	0.85	0.00	0.50	0.10	0.97	0.05	0.76	0.66

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 30
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** ALGAE DATA **

ELE ORD	RCH NUM	ELE NUM	CHLA UG/L	ALGY GRWTH 1/DAY	ALGY RESP 1/DAY	ALGY SETT FT/DA	A P/R RATIO *	NET P-R MG/L-D	NH3 PREF *	NH3-N FRACT N-UPTKE *	LIGHT EXTCO 1/FT	ALGAE GROWTH RATE ATTEN FACTORS LIGHT *	NITRGN *	PHSPRS *
211	11	11	5.91	0.06	0.05	0.05	0.85	0.00	0.50	0.10	0.97	0.05	0.76	0.66
212	11	12	5.92	0.06	0.05	0.05	0.85	0.00	0.50	0.10	0.97	0.05	0.76	0.66
213	11	13	5.92	0.06	0.05	0.05	0.85	0.00	0.50	0.10	0.97	0.05	0.76	0.66
214	11	14	5.92	0.06	0.05	0.05	0.85	0.00	0.50	0.10	0.97	0.05	0.76	0.66
215	11	15	5.92	0.06	0.05	0.05	0.85	0.00	0.50	0.10	0.97	0.05	0.76	0.66
216	11	16	5.92	0.06	0.05	0.05	0.85	0.00	0.50	0.10	0.97	0.05	0.76	0.66
217	11	17	5.92	0.06	0.05	0.05	0.85	0.00	0.50	0.10	0.97	0.05	0.76	0.66
218	11	18	5.92	0.06	0.05	0.05	0.85	0.00	0.50	0.10	0.97	0.05	0.76	0.66
219	11	19	5.92	0.06	0.05	0.05	0.86	0.00	0.50	0.10	0.97	0.05	0.76	0.66
220	11	20	5.92	0.06	0.05	0.05	0.86	0.00	0.50	0.10	0.97	0.05	0.76	0.66
221	12	1	5.92	0.05	0.05	0.05	0.68	0.00	0.50	0.10	0.97	0.04	0.76	0.66
222	12	2	5.91	0.05	0.05	0.05	0.68	0.00	0.50	0.09	0.97	0.04	0.76	0.66
223	12	3	5.90	0.05	0.05	0.05	0.68	0.00	0.50	0.09	0.97	0.04	0.76	0.66
224	12	4	5.89	0.05	0.05	0.05	0.68	0.00	0.50	0.09	0.97	0.04	0.76	0.66
225	12	5	5.88	0.05	0.05	0.05	0.68	0.00	0.50	0.09	0.97	0.04	0.76	0.66
226	12	6	5.88	0.05	0.05	0.05	0.68	0.00	0.50	0.09	0.97	0.04	0.76	0.66
227	12	7	5.87	0.05	0.05	0.05	0.68	0.00	0.50	0.09	0.97	0.04	0.77	0.67
228	12	8	5.86	0.05	0.05	0.05	0.68	0.00	0.50	0.09	0.97	0.04	0.77	0.67
229	12	9	5.86	0.05	0.05	0.05	0.69	0.00	0.50	0.09	0.97	0.04	0.77	0.67
230	12	10	5.85	0.05	0.05	0.05	0.69	0.00	0.50	0.09	0.97	0.04	0.77	0.67

231	12	11	5.84	0.05	0.05	0.05	0.69	0.00	0.50	0.09	0.97	0.04	0.77	0.67
232	12	12	5.83	0.05	0.05	0.05	0.69	0.00	0.50	0.09	0.97	0.04	0.77	0.67
233	12	13	5.83	0.05	0.05	0.05	0.69	0.00	0.50	0.09	0.97	0.04	0.77	0.67
234	12	14	5.82	0.05	0.05	0.05	0.69	0.00	0.50	0.09	0.97	0.04	0.77	0.67
235	12	15	5.81	0.05	0.05	0.05	0.69	0.00	0.50	0.09	0.97	0.04	0.77	0.67
236	12	16	5.81	0.05	0.05	0.05	0.69	0.00	0.50	0.09	0.97	0.04	0.77	0.67
237	12	17	5.80	0.05	0.05	0.05	0.69	0.00	0.50	0.09	0.97	0.04	0.77	0.67
238	12	18	5.79	0.05	0.05	0.05	0.69	0.00	0.50	0.09	0.97	0.04	0.77	0.67
239	12	19	5.79	0.05	0.05	0.05	0.70	0.00	0.50	0.09	0.97	0.04	0.77	0.67
240	12	20	5.78	0.05	0.05	0.05	0.70	0.00	0.50	0.08	0.97	0.04	0.77	0.67
241	13	1	5.77	0.04	0.05	0.05	0.63	-0.01	0.50	0.08	0.89	0.04	0.77	0.67
242	13	2	5.76	0.04	0.05	0.05	0.63	-0.01	0.50	0.08	0.89	0.04	0.77	0.67
243	13	3	5.75	0.04	0.05	0.05	0.63	-0.01	0.50	0.08	0.89	0.04	0.77	0.67
244	13	4	5.73	0.04	0.05	0.05	0.63	-0.01	0.50	0.08	0.89	0.04	0.77	0.68
245	13	5	5.72	0.04	0.05	0.05	0.63	-0.01	0.50	0.08	0.89	0.04	0.77	0.68
246	13	6	5.71	0.04	0.05	0.05	0.63	-0.01	0.50	0.08	0.89	0.04	0.77	0.68
247	13	7	5.70	0.04	0.05	0.05	0.63	0.00	0.50	0.08	0.89	0.04	0.77	0.68
248	13	8	5.69	0.04	0.05	0.05	0.63	0.00	0.50	0.08	0.89	0.04	0.77	0.68
249	13	9	5.68	0.04	0.05	0.05	0.63	0.00	0.50	0.08	0.89	0.04	0.77	0.68
250	13	10	5.67	0.04	0.05	0.05	0.64	0.00	0.50	0.08	0.89	0.04	0.77	0.68
251	13	11	5.66	0.04	0.05	0.05	0.64	0.00	0.50	0.08	0.89	0.04	0.78	0.68
252	13	12	5.65	0.04	0.05	0.05	0.64	0.00	0.50	0.08	0.89	0.04	0.78	0.68

***** STEADY STATE SIMULATION *****

** ALGAE DATA **

ELE ORD	RCH NUM	ELE NUM	CHLA UG/L	ALGY GRWTH 1/DAY	ALGY RESP 1/DAY	ALGY SETT FT/DA	A P/R RATIO *	NET P-R MG/L-D	NH3 PREF *	NH3-N FRACT N-UPTKE *	LIGHT EXTCO 1/FT	ALGAE GROWTH RATE ATTEN FACTORS LIGHT *	NITRGN *	PHSPRS *
253	13	13	5.64	0.04	0.05	0.05	0.64	0.00	0.50	0.08	0.89	0.04	0.78	0.68
254	13	14	5.63	0.04	0.05	0.05	0.64	0.00	0.50	0.08	0.89	0.04	0.78	0.68
255	13	15	5.62	0.04	0.05	0.05	0.64	0.00	0.50	0.08	0.89	0.04	0.78	0.68
256	13	16	5.61	0.04	0.05	0.05	0.64	0.00	0.50	0.08	0.89	0.04	0.78	0.68
257	13	17	5.60	0.04	0.05	0.05	0.64	0.00	0.50	0.08	0.89	0.04	0.78	0.68
258	13	18	5.59	0.04	0.05	0.05	0.64	0.00	0.50	0.08	0.89	0.04	0.78	0.68
259	13	19	5.58	0.04	0.05	0.05	0.64	0.00	0.50	0.08	0.89	0.04	0.78	0.68
260	13	20	5.57	0.04	0.05	0.05	0.64	0.00	0.50	0.08	0.89	0.04	0.78	0.68
261	14	1	5.56	0.05	0.05	0.05	0.70	0.00	0.50	0.08	0.89	0.04	0.78	0.68
262	14	2	5.56	0.05	0.05	0.05	0.70	0.00	0.50	0.08	0.89	0.04	0.78	0.69
263	14	3	5.55	0.05	0.05	0.05	0.70	0.00	0.50	0.08	0.89	0.04	0.78	0.69
264	14	4	5.54	0.05	0.05	0.05	0.70	0.00	0.50	0.08	0.89	0.04	0.78	0.69
265	14	5	5.54	0.05	0.05	0.05	0.70	0.00	0.50	0.08	0.89	0.04	0.78	0.69

266	14	6	5.53	0.05	0.05	0.05	0.71	0.00	0.50	0.07	0.89	0.04	0.78	0.69
267	14	7	5.52	0.05	0.05	0.05	0.71	0.00	0.50	0.07	0.89	0.04	0.78	0.69
268	14	8	5.52	0.05	0.05	0.05	0.71	0.00	0.50	0.07	0.89	0.04	0.78	0.69
269	14	9	5.51	0.05	0.05	0.05	0.71	0.00	0.50	0.07	0.89	0.04	0.78	0.69
270	14	10	5.50	0.05	0.05	0.05	0.71	0.00	0.50	0.07	0.89	0.04	0.78	0.69
271	14	11	5.50	0.05	0.05	0.05	0.71	0.00	0.50	0.07	0.89	0.04	0.78	0.69
272	14	12	5.49	0.05	0.05	0.05	0.71	0.00	0.50	0.07	0.89	0.04	0.78	0.69
273	14	13	5.49	0.05	0.05	0.05	0.71	0.00	0.50	0.07	0.89	0.04	0.78	0.69
274	14	14	5.48	0.05	0.05	0.05	0.71	0.00	0.50	0.07	0.89	0.04	0.78	0.69
275	14	15	5.47	0.05	0.05	0.05	0.71	0.00	0.50	0.07	0.89	0.04	0.78	0.69
276	14	16	5.47	0.05	0.05	0.05	0.71	0.00	0.50	0.07	0.89	0.04	0.78	0.69
277	14	17	5.46	0.05	0.05	0.05	0.72	0.00	0.50	0.07	0.89	0.04	0.79	0.69
278	14	18	5.46	0.05	0.05	0.05	0.72	0.00	0.50	0.07	0.89	0.04	0.79	0.69
279	14	19	5.45	0.05	0.05	0.05	0.72	0.00	0.50	0.07	0.89	0.04	0.79	0.69
280	14	20	5.44	0.05	0.05	0.05	0.72	0.00	0.50	0.07	0.89	0.04	0.79	0.69
281	15	1	5.44	0.05	0.05	0.05	0.79	0.00	0.50	0.07	0.89	0.04	0.79	0.70
282	15	2	5.44	0.05	0.05	0.05	0.79	0.00	0.50	0.07	0.89	0.04	0.79	0.70
283	15	3	5.44	0.05	0.05	0.05	0.79	0.00	0.50	0.07	0.89	0.04	0.79	0.70
284	15	4	5.44	0.05	0.05	0.05	0.79	0.00	0.50	0.07	0.89	0.04	0.79	0.70
285	15	5	5.44	0.05	0.05	0.05	0.79	0.00	0.50	0.07	0.89	0.04	0.79	0.70
286	15	6	5.43	0.05	0.05	0.05	0.79	0.00	0.50	0.07	0.89	0.04	0.79	0.70
287	15	7	5.43	0.05	0.05	0.05	0.79	0.00	0.50	0.07	0.89	0.04	0.79	0.70
288	15	8	5.43	0.05	0.05	0.05	0.79	0.00	0.50	0.07	0.89	0.04	0.79	0.70
289	15	9	5.43	0.05	0.05	0.05	0.79	0.00	0.50	0.07	0.89	0.04	0.79	0.70
290	15	10	5.43	0.05	0.05	0.05	0.79	0.00	0.50	0.07	0.89	0.04	0.79	0.70
291	15	11	5.43	0.05	0.05	0.05	0.80	0.00	0.50	0.07	0.89	0.04	0.79	0.70
292	15	12	5.43	0.05	0.05	0.05	0.80	0.00	0.50	0.07	0.89	0.04	0.79	0.70
293	15	13	5.42	0.05	0.05	0.05	0.80	0.00	0.50	0.07	0.89	0.04	0.79	0.70
294	15	14	5.42	0.05	0.05	0.05	0.80	0.00	0.50	0.07	0.89	0.04	0.79	0.70

***** STEADY STATE SIMULATION *****

** ALGAE DATA **

ELE ORD	RCH NUM	ELE NUM	CHLA UG/L	ALGY GRWTH 1/DAY	ALGY RESP 1/DAY	ALGY SETT FT/DA	A P/R RATIO *	NET P-R MG/L-D	NH3 PREF *	NH3-N FRACT N-UPTKE *	LIGHT EXTCO 1/FT	ALGAE GROWTH RATE ATTEN FACTORS LIGHT *	NITRGN *	PHSPRS *
295	15	15	5.42	0.05	0.05	0.05	0.80	0.00	0.50	0.07	0.89	0.04	0.79	0.70
296	15	16	5.42	0.05	0.05	0.05	0.80	0.00	0.50	0.07	0.89	0.04	0.79	0.70
297	15	17	5.42	0.05	0.05	0.05	0.80	0.00	0.50	0.07	0.89	0.04	0.79	0.70
298	15	18	5.42	0.05	0.05	0.05	0.80	0.00	0.50	0.07	0.89	0.04	0.79	0.70
299	15	19	5.42	0.05	0.05	0.05	0.80	0.00	0.50	0.07	0.89	0.04	0.79	0.70
300	15	20	5.42	0.05	0.05	0.05	0.80	0.00	0.50	0.07	0.89	0.04	0.79	0.70

301	16	1	5.43	0.06	0.05	0.05	1.00	0.00	0.50	0.07	0.79	0.05	0.79	0.70
302	16	2	5.44	0.06	0.05	0.05	1.00	0.00	0.50	0.07	0.79	0.05	0.79	0.70
303	16	3	5.45	0.06	0.05	0.05	1.00	0.00	0.50	0.07	0.79	0.05	0.79	0.71
304	16	4	5.46	0.06	0.05	0.05	1.00	0.00	0.50	0.07	0.79	0.05	0.79	0.71
305	16	5	5.47	0.06	0.05	0.05	1.00	0.00	0.50	0.07	0.79	0.05	0.79	0.71
306	16	6	5.48	0.06	0.05	0.05	1.01	0.00	0.50	0.07	0.79	0.05	0.79	0.71
307	16	7	5.49	0.06	0.05	0.05	1.01	0.00	0.50	0.07	0.79	0.05	0.79	0.71
308	16	8	5.50	0.06	0.05	0.05	1.01	0.00	0.50	0.06	0.79	0.05	0.80	0.71
309	16	9	5.51	0.06	0.05	0.05	1.01	0.00	0.50	0.06	0.79	0.05	0.80	0.71
310	16	10	5.52	0.06	0.05	0.05	1.01	0.00	0.50	0.06	0.79	0.05	0.80	0.71
311	16	11	5.53	0.06	0.05	0.05	1.01	0.00	0.50	0.06	0.79	0.05	0.80	0.71
312	16	12	5.54	0.06	0.05	0.05	1.01	0.00	0.50	0.06	0.79	0.05	0.80	0.71
313	16	13	5.55	0.06	0.05	0.05	1.01	0.00	0.50	0.06	0.79	0.05	0.80	0.71
314	16	14	5.56	0.06	0.05	0.05	1.01	0.00	0.50	0.06	0.79	0.05	0.80	0.71
315	16	15	5.57	0.06	0.05	0.05	1.01	0.00	0.50	0.06	0.79	0.05	0.80	0.71
316	16	16	5.58	0.06	0.05	0.05	1.01	0.00	0.50	0.06	0.79	0.05	0.80	0.71
317	16	17	5.59	0.06	0.05	0.05	1.01	0.00	0.50	0.06	0.79	0.05	0.80	0.71
318	16	18	5.60	0.06	0.05	0.05	1.02	0.00	0.50	0.06	0.79	0.05	0.80	0.71
319	16	19	5.61	0.06	0.05	0.05	1.02	0.00	0.50	0.06	0.79	0.05	0.80	0.71
320	16	20	5.62	0.06	0.05	0.05	1.02	0.00	0.50	0.06	0.79	0.05	0.80	0.71
321	17	1	5.64	0.07	0.05	0.05	1.12	0.00	0.50	0.06	0.79	0.06	0.80	0.71
322	17	2	5.65	0.07	0.05	0.05	1.12	0.00	0.50	0.06	0.79	0.06	0.80	0.71
323	17	3	5.67	0.07	0.05	0.05	1.12	0.00	0.50	0.06	0.79	0.06	0.80	0.71
324	17	4	5.68	0.07	0.05	0.05	1.12	0.00	0.50	0.06	0.79	0.06	0.80	0.71
325	17	5	5.70	0.07	0.05	0.05	1.12	0.00	0.50	0.06	0.79	0.06	0.80	0.71
326	17	6	5.71	0.07	0.05	0.05	1.12	0.00	0.50	0.06	0.79	0.06	0.80	0.71
327	17	7	5.73	0.07	0.05	0.05	1.12	0.00	0.50	0.06	0.79	0.06	0.80	0.71
328	17	8	5.75	0.07	0.05	0.05	1.12	0.00	0.50	0.06	0.79	0.06	0.80	0.71
329	17	9	5.76	0.07	0.05	0.05	1.12	0.00	0.50	0.06	0.79	0.06	0.80	0.71
330	17	10	5.78	0.07	0.05	0.05	1.12	0.00	0.50	0.06	0.79	0.06	0.80	0.72
331	17	11	5.79	0.07	0.05	0.05	1.12	0.00	0.50	0.06	0.79	0.06	0.80	0.72
332	17	12	5.81	0.07	0.05	0.05	1.13	0.00	0.50	0.06	0.79	0.06	0.80	0.72

***** STEADY STATE SIMULATION *****

** DISSOLVED OXYGEN DATA **

ELE ORD	RCH NUM	ELE NUM	TEMP DEG-F	DO SAT MG/L	DO MG/L	DO DEF MG/L	DAM INPUT MG/L	NIT INHIB FACT	COMPONENTS OF DISSOLVED OXYGEN MASS BALANCE (MG/L-DAY) F-FNCTN INPUT	OXYGN REAIR	C-BOD	SOD	NET P-R	NH3-N	NO2-N
1	1	1	65.49	9.38	7.52	1.87	0.00	0.99	95.07	0.40	-0.17	0.00	-0.02	-0.02	-0.01
2	1	2	65.48	9.38	7.53	1.85	0.00	0.99	0.01	0.40	-0.17	0.00	-0.02	-0.02	-0.01
3	1	3	65.47	9.38	7.54	1.84	0.00	0.99	0.01	0.40	-0.17	0.00	-0.02	-0.02	-0.01

4	1	4	65.46	9.39	7.56	1.83	0.00	0.99	0.01	0.39	-0.17	0.00	-0.02	-0.02	-0.01
5	1	5	65.45	9.39	7.57	1.81	0.00	0.99	0.01	0.39	-0.17	0.00	-0.02	-0.02	-0.01
6	1	6	65.44	9.39	7.59	1.80	0.00	0.99	0.01	0.39	-0.16	0.00	-0.02	-0.02	-0.01
7	1	7	65.43	9.39	7.60	1.79	0.00	0.99	0.01	0.39	-0.16	0.00	-0.02	-0.02	-0.01
8	1	8	65.42	9.39	7.61	1.78	0.00	0.99	0.01	0.38	-0.16	0.00	-0.02	-0.02	-0.01
9	1	9	65.41	9.39	7.63	1.76	0.00	0.99	0.01	0.38	-0.16	0.00	-0.02	-0.02	-0.01
10	1	10	65.40	9.39	7.64	1.75	0.00	0.99	0.01	0.38	-0.16	0.00	-0.02	-0.02	-0.01
11	1	11	65.39	9.39	7.65	1.74	0.00	0.99	0.01	0.37	-0.16	0.00	-0.02	-0.02	-0.01
12	1	12	65.38	9.39	7.67	1.73	0.00	0.99	0.01	0.37	-0.16	0.00	-0.02	-0.02	-0.01
13	1	13	65.37	9.39	7.68	1.71	0.00	0.99	0.01	0.37	-0.16	0.00	-0.02	-0.02	-0.01
14	1	14	65.36	9.40	7.69	1.70	0.00	0.99	0.01	0.37	-0.16	0.00	-0.02	-0.02	-0.01
15	1	15	65.35	9.40	7.71	1.69	0.00	0.99	0.01	0.36	-0.16	0.00	-0.02	-0.02	-0.01
16	1	16	65.34	9.40	7.72	1.68	0.00	0.99	0.01	0.36	-0.16	0.00	-0.02	-0.02	-0.01
17	1	17	65.33	9.40	7.73	1.67	0.00	0.99	0.01	0.36	-0.16	0.00	-0.02	-0.02	-0.01
18	1	18	65.33	9.40	7.74	1.66	0.00	0.99	0.01	0.36	-0.16	0.00	-0.02	-0.02	-0.01
19	1	19	65.32	9.40	7.75	1.65	0.00	0.99	0.01	0.35	-0.16	0.00	-0.02	-0.02	-0.01
20	1	20	65.31	9.40	7.76	1.64	0.00	0.99	0.01	0.35	-0.16	0.00	-0.02	-0.02	-0.01
21	2	1	65.30	9.40	7.78	1.63	0.00	0.99	0.01	0.36	-0.16	0.00	-0.01	-0.02	-0.01
22	2	2	65.29	9.40	7.79	1.61	0.00	0.99	0.01	0.37	-0.16	0.00	-0.01	-0.02	-0.01
23	2	3	65.28	9.40	7.80	1.60	0.00	0.99	0.01	0.37	-0.16	0.00	-0.01	-0.02	-0.01
24	2	4	65.27	9.41	7.81	1.59	0.00	0.99	0.01	0.37	-0.16	0.00	-0.01	-0.02	-0.01
25	2	5	65.26	9.41	7.83	1.58	0.00	0.99	0.01	0.36	-0.16	0.00	-0.01	-0.02	-0.01
26	2	6	65.25	9.41	7.84	1.57	0.00	0.99	0.01	0.36	-0.16	0.00	-0.01	-0.02	-0.01
27	2	7	65.24	9.41	7.85	1.56	0.00	0.99	0.01	0.36	-0.15	0.00	-0.01	-0.02	-0.01
28	2	8	64.98	9.44	7.86	1.57	0.00	0.99	6.03	0.36	-0.16	0.00	-0.01	-0.02	-0.01
29	2	9	64.97	9.44	7.87	1.56	0.00	0.99	-0.92	0.36	-0.16	0.00	-0.01	-0.02	-0.01
30	2	10	65.03	9.43	7.88	1.55	0.00	0.99	0.17	0.36	-0.16	0.00	-0.01	-0.02	-0.01
31	2	11	65.25	9.41	7.89	1.52	0.00	0.99	-26.91	0.35	-0.16	0.00	-0.01	-0.02	-0.01
32	2	12	76.04	8.37	7.84	0.54	0.00	0.99	26.16	0.14	-0.20	0.00	-0.01	-0.03	-0.01
33	2	13	75.97	8.38	7.83	0.55	0.00	0.99	0.01	0.15	-0.20	0.00	-0.01	-0.03	-0.01
34	2	14	75.90	8.39	7.82	0.57	0.00	0.99	0.01	0.15	-0.20	0.00	-0.01	-0.03	-0.01
35	2	15	75.83	8.39	7.81	0.58	0.00	0.99	0.01	0.15	-0.20	0.00	-0.01	-0.03	-0.01
36	2	16	75.76	8.40	7.80	0.59	0.00	0.99	0.01	0.16	-0.20	0.00	-0.01	-0.03	-0.01
37	2	17	75.73	8.40	7.77	0.63	0.00	0.99	0.11	0.17	-0.20	0.00	-0.01	-0.09	-0.01
38	2	18	75.67	8.41	7.76	0.64	0.00	0.99	0.01	0.17	-0.20	0.00	-0.01	-0.09	-0.01
39	2	19	75.60	8.41	7.75	0.66	0.00	0.99	0.01	0.17	-0.20	0.00	-0.01	-0.08	-0.01
40	2	20	75.54	8.42	7.75	0.67	0.00	0.99	0.01	0.18	-0.20	0.00	-0.01	-0.08	-0.01
41	3	1	75.47	8.42	7.74	0.69	0.00	0.99	0.01	0.19	-0.20	0.00	-0.01	-0.08	-0.01
42	3	2	75.41	8.43	7.73	0.70	0.00	0.99	0.01	0.20	-0.20	0.00	-0.01	-0.08	-0.01

***** STEADY STATE SIMULATION *****

** DISSOLVED OXYGEN DATA **

COMPONENTS OF DISSOLVED OXYGEN MASS BALANCE (MG/L-DAY)

ELE ORD	RCH NUM	ELE NUM	TEMP DEG-F	DO SAT MG/L	DO MG/L	DO DEF MG/L	DAM INPUT MG/L	NIT INHIB FACT	F-FNCTN INPUT	OXYGN REAIR	C-BOD	SOD	NET P-R	NH3-N	NO2-N
43	3	3	75.34	8.43	7.72	0.71	0.00	0.99	0.01	0.20	-0.20	0.00	-0.01	-0.08	-0.01
44	3	4	75.28	8.44	7.72	0.72	0.00	0.99	0.01	0.21	-0.20	0.00	-0.01	-0.08	-0.01
45	3	5	75.23	8.44	7.70	0.74	0.00	0.99	0.04	0.21	-0.21	0.00	-0.01	-0.08	-0.01
46	3	6	75.16	8.45	7.70	0.75	0.00	0.99	0.01	0.21	-0.21	0.00	-0.01	-0.08	-0.01
47	3	7	75.10	8.46	7.69	0.76	0.00	0.99	0.01	0.22	-0.21	0.00	-0.01	-0.08	-0.01
48	3	8	75.04	8.46	7.69	0.77	0.00	0.99	0.01	0.22	-0.21	0.00	-0.01	-0.08	-0.01
49	3	9	74.97	8.47	7.68	0.79	0.00	0.99	0.01	0.22	-0.21	0.00	-0.01	-0.08	-0.01
50	3	10	74.80	8.48	7.68	0.81	0.00	0.99	1.23	0.23	-0.21	0.00	-0.01	-0.07	-0.01
51	3	11	74.74	8.49	7.67	0.82	0.00	0.99	0.01	0.23	-0.21	0.00	-0.01	-0.07	-0.01
52	3	12	74.68	8.49	7.67	0.83	0.00	0.99	0.01	0.23	-0.21	0.00	-0.01	-0.07	-0.01
53	3	13	74.62	8.50	7.66	0.84	0.00	0.99	0.01	0.24	-0.21	0.00	-0.01	-0.07	-0.01
54	3	14	74.56	8.50	7.66	0.85	0.00	0.99	0.01	0.24	-0.21	0.00	-0.01	-0.07	-0.01
55	3	15	74.50	8.51	7.65	0.86	0.00	0.99	0.01	0.24	-0.21	0.00	-0.01	-0.07	-0.01
56	3	16	74.44	8.51	7.65	0.87	0.00	0.99	0.01	0.24	-0.21	0.00	-0.01	-0.07	-0.01
57	3	17	74.38	8.52	7.64	0.87	0.00	0.99	0.01	0.25	-0.21	0.00	-0.01	-0.07	-0.01
58	3	18	74.33	8.52	7.64	0.88	0.00	0.99	0.01	0.25	-0.21	0.00	-0.01	-0.07	-0.01
59	3	19	74.27	8.53	7.64	0.89	0.00	0.99	0.01	0.25	-0.22	0.00	-0.01	-0.07	-0.01
60	3	20	74.21	8.53	7.63	0.90	0.00	0.99	0.01	0.25	-0.22	0.00	-0.01	-0.07	-0.01
61	4	1	74.15	8.54	7.63	0.91	0.00	0.99	0.01	0.23	-0.22	0.00	-0.01	-0.07	-0.01
62	4	2	74.09	8.55	7.61	0.93	0.00	0.99	0.01	0.20	-0.22	0.00	-0.01	-0.07	-0.01
63	4	3	74.03	8.55	7.60	0.95	0.00	0.99	0.01	0.20	-0.22	0.00	-0.01	-0.06	-0.01
64	4	4	73.97	8.56	7.59	0.96	0.00	0.99	0.01	0.20	-0.22	0.00	-0.01	-0.06	-0.01
65	4	5	73.91	8.56	7.58	0.98	0.00	0.99	0.01	0.21	-0.23	0.00	-0.01	-0.06	-0.01
66	4	6	73.85	8.57	7.57	0.99	0.00	0.99	0.01	0.21	-0.23	0.00	-0.01	-0.06	-0.01
67	4	7	73.79	8.57	7.56	1.01	0.00	0.99	0.01	0.21	-0.23	0.00	-0.01	-0.06	-0.01
68	4	8	73.73	8.58	7.55	1.02	0.00	0.99	0.01	0.22	-0.23	0.00	-0.01	-0.06	-0.01
69	4	9	73.67	8.58	7.54	1.04	0.00	0.99	0.01	0.22	-0.23	0.00	-0.01	-0.06	-0.01
70	4	10	73.61	8.59	7.53	1.05	0.00	0.99	0.01	0.22	-0.23	0.00	-0.01	-0.06	-0.01
71	4	11	73.55	8.59	7.52	1.07	0.00	0.99	0.01	0.23	-0.24	0.00	-0.01	-0.06	-0.02
72	4	12	73.49	8.60	7.52	1.08	0.00	0.99	0.01	0.23	-0.24	0.00	-0.01	-0.06	-0.02
73	4	13	73.43	8.60	7.51	1.10	0.00	0.99	0.01	0.23	-0.24	0.00	-0.01	-0.06	-0.02
74	4	14	73.37	8.61	7.50	1.11	0.00	0.99	0.01	0.23	-0.24	0.00	-0.01	-0.06	-0.02
75	4	15	73.32	8.61	7.49	1.13	0.00	0.99	0.01	0.24	-0.24	0.00	-0.01	-0.06	-0.02
76	4	16	73.26	8.62	7.48	1.14	0.00	0.99	0.01	0.24	-0.25	0.00	-0.01	-0.06	-0.02
77	4	17	73.20	8.63	7.47	1.15	0.00	0.99	0.01	0.24	-0.25	0.00	-0.01	-0.05	-0.02
78	4	18	73.15	8.63	7.46	1.17	0.00	0.99	0.01	0.24	-0.25	0.00	-0.01	-0.05	-0.02
79	4	19	73.09	8.64	7.46	1.18	0.00	0.99	0.01	0.25	-0.25	0.00	-0.01	-0.05	-0.02
80	4	20	73.04	8.64	7.45	1.19	0.00	0.99	0.01	0.25	-0.25	0.00	-0.01	-0.05	-0.02
81	5	1	72.98	8.65	7.44	1.21	0.00	0.99	0.00	0.23	-0.25	0.00	-0.01	-0.05	-0.02
82	5	2	72.92	8.65	7.42	1.23	0.00	0.99	0.00	0.20	-0.26	0.00	-0.01	-0.05	-0.02
83	5	3	72.87	8.66	7.40	1.25	0.00	0.99	0.00	0.21	-0.26	0.00	-0.01	-0.05	-0.02
84	5	4	72.81	8.66	7.39	1.27	0.00	0.99	0.00	0.21	-0.26	0.00	-0.01	-0.05	-0.02

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 35
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** DISSOLVED OXYGEN DATA **

ELE ORD	RCH NUM	ELE NUM	TEMP DEG-F	DO SAT MG/L	DO MG/L	DO DEF MG/L	DAM INPUT MG/L	NIT INHIB FACT	COMPONENTS OF DISSOLVED OXYGEN MASS BALANCE (MG/L-DAY) F-FNCTN INPUT	OXYGN REAIR	C-BOD	SOD	NET P-R	NH3-N	NO2-N
85	5	5	72.75	8.67	7.37	1.29	0.00	0.99	0.00	0.21	-0.26	0.00	-0.01	-0.05	-0.02
86	5	6	72.70	8.67	7.36	1.32	0.00	0.99	0.00	0.22	-0.26	0.00	-0.01	-0.05	-0.02
87	5	7	72.64	8.68	7.34	1.34	0.00	0.99	0.00	0.22	-0.26	0.00	-0.01	-0.05	-0.02
88	5	8	72.59	8.68	7.33	1.36	0.00	0.99	0.00	0.22	-0.27	0.00	-0.01	-0.05	-0.02
89	5	9	72.53	8.69	7.31	1.37	0.00	0.99	0.00	0.23	-0.27	0.00	-0.01	-0.05	-0.02
90	5	10	72.48	8.69	7.30	1.39	0.00	0.99	0.00	0.23	-0.27	0.00	-0.01	-0.05	-0.02
91	5	11	72.43	8.70	7.28	1.41	0.00	0.99	0.00	0.23	-0.27	0.00	-0.01	-0.05	-0.02
92	5	12	72.37	8.70	7.27	1.43	0.00	0.99	0.00	0.24	-0.27	0.00	-0.01	-0.05	-0.02
93	5	13	72.32	8.71	7.26	1.45	0.00	0.99	0.00	0.24	-0.27	0.00	-0.01	-0.05	-0.02
94	5	14	72.27	8.71	7.24	1.47	0.00	0.99	0.00	0.24	-0.28	0.00	-0.01	-0.05	-0.02
95	5	15	72.21	8.72	7.23	1.49	0.00	0.99	0.00	0.24	-0.28	0.00	-0.01	-0.04	-0.02
96	5	16	72.16	8.72	7.22	1.50	0.00	0.99	0.00	0.25	-0.28	0.00	-0.01	-0.04	-0.02
97	5	17	72.11	8.73	7.20	1.52	0.00	0.99	0.00	0.25	-0.28	0.00	-0.01	-0.04	-0.02
98	5	18	72.06	8.73	7.19	1.54	0.00	0.99	0.00	0.25	-0.28	0.00	-0.01	-0.04	-0.02
99	5	19	72.01	8.74	7.18	1.56	0.00	0.99	0.00	0.25	-0.28	0.00	-0.01	-0.04	-0.02
100	5	20	71.96	8.74	7.17	1.57	0.00	0.99	0.00	0.26	-0.29	0.00	-0.01	-0.04	-0.02
101	6	1	71.90	8.75	7.15	1.59	0.00	0.99	0.00	0.26	-0.29	0.00	-0.01	-0.04	-0.02
102	6	2	71.85	8.75	7.14	1.61	0.00	0.99	0.00	0.26	-0.29	0.00	-0.01	-0.04	-0.02
103	6	3	71.79	8.76	7.13	1.62	0.00	0.99	0.00	0.27	-0.29	0.00	-0.01	-0.04	-0.01
104	6	4	71.74	8.76	7.12	1.64	0.00	0.99	0.00	0.27	-0.29	0.00	-0.01	-0.04	-0.01
105	6	5	71.69	8.77	7.11	1.66	0.00	0.99	0.00	0.27	-0.29	0.00	-0.01	-0.04	-0.01
106	6	6	71.63	8.77	7.10	1.67	0.00	0.99	0.00	0.27	-0.29	0.00	-0.01	-0.04	-0.01
107	6	7	71.58	8.78	7.08	1.69	0.00	0.99	0.00	0.28	-0.29	0.00	-0.01	-0.04	-0.01
108	6	8	71.53	8.78	7.07	1.71	0.00	0.99	0.00	0.28	-0.29	0.00	-0.01	-0.04	-0.01
109	6	9	71.48	8.79	7.06	1.72	0.00	0.99	0.00	0.28	-0.29	0.00	-0.01	-0.04	-0.01
110	6	10	71.43	8.79	7.05	1.74	0.00	0.99	0.00	0.28	-0.29	0.00	-0.01	-0.04	-0.01
111	6	11	71.37	8.79	7.04	1.75	0.00	0.99	0.00	0.29	-0.30	0.00	-0.01	-0.04	-0.01
112	6	12	71.32	8.80	7.03	1.77	0.00	0.99	0.00	0.29	-0.30	0.00	-0.01	-0.04	-0.01
113	6	13	71.27	8.80	7.02	1.78	0.00	0.99	0.00	0.29	-0.30	0.00	-0.01	-0.04	-0.01
114	6	14	71.22	8.81	7.01	1.79	0.00	0.99	0.00	0.29	-0.30	0.00	-0.01	-0.04	-0.01
115	6	15	71.17	8.81	7.01	1.81	0.00	0.99	0.00	0.29	-0.30	0.00	-0.01	-0.04	-0.01
116	6	16	71.10	8.82	7.00	1.82	0.00	0.98	0.11	0.30	-0.30	0.00	-0.01	-0.04	-0.01
117	6	17	71.06	8.82	6.99	1.84	0.00	0.98	0.00	0.30	-0.30	0.00	-0.01	-0.04	-0.01
118	6	18	71.01	8.83	6.98	1.85	0.00	0.98	0.00	0.30	-0.30	0.00	-0.01	-0.04	-0.01
119	6	19	70.96	8.83	6.97	1.86	0.00	0.98	0.00	0.30	-0.30	0.00	-0.01	-0.04	-0.01
120	6	20	70.91	8.84	6.96	1.88	0.00	0.98	0.00	0.30	-0.30	0.00	-0.01	-0.04	-0.01

121	7	1	70.86	8.84	6.95	1.89	0.00	0.98	0.00	0.31	-0.30	-0.02	-0.01	-0.04	-0.01
122	7	2	70.81	8.85	6.94	1.91	0.00	0.98	0.00	0.31	-0.30	-0.02	-0.01	-0.04	-0.01
123	7	3	70.77	8.85	6.93	1.92	0.00	0.98	0.00	0.31	-0.31	-0.02	-0.01	-0.04	-0.01
124	7	4	70.90	8.84	6.92	1.92	0.00	0.98	-8.34	0.32	-0.31	-0.02	-0.01	-0.04	-0.01
125	7	5	76.52	8.33	6.87	1.47	0.00	0.98	8.13	0.26	-0.34	-0.02	-0.01	-0.04	-0.02
126	7	6	76.43	8.34	6.84	1.50	0.00	0.98	0.00	0.26	-0.34	-0.02	-0.01	-0.04	-0.02

***** STEADY STATE SIMULATION *****

** DISSOLVED OXYGEN DATA **

ELE ORD	RCH NUM	ELE NUM	TEMP DEG-F	DO SAT MG/L	DO MG/L	DO DEF MG/L	DAM INPUT MG/L	NIT INHIB FACT	COMPONENTS OF DISSOLVED OXYGEN MASS BALANCE (MG/L-DAY) F-FNCTN INPUT	OXYGN REAIR	C-BOD	SOD	NET P-R	NH3-N	NO2-N
127	7	7	76.33	8.35	6.82	1.53	0.00	0.98	0.00	0.27	-0.34	-0.02	-0.01	-0.04	-0.02
128	7	8	76.24	8.36	6.80	1.56	0.00	0.98	0.00	0.27	-0.34	-0.02	-0.01	-0.04	-0.02
129	7	9	76.15	8.36	6.78	1.59	0.00	0.98	0.00	0.28	-0.34	-0.02	-0.01	-0.04	-0.02
130	7	10	76.05	8.37	6.76	1.62	0.00	0.98	0.00	0.28	-0.34	-0.02	-0.01	-0.04	-0.01
131	7	11	75.96	8.38	6.74	1.65	0.00	0.98	0.00	0.29	-0.34	-0.02	-0.01	-0.04	-0.01
132	7	12	75.87	8.39	6.72	1.67	0.00	0.98	0.00	0.29	-0.34	-0.02	-0.01	-0.04	-0.01
133	7	13	75.79	8.40	6.70	1.70	0.00	0.98	0.00	0.30	-0.34	-0.02	-0.01	-0.04	-0.01
134	7	14	75.70	8.40	6.68	1.72	0.00	0.98	0.00	0.30	-0.34	-0.02	-0.01	-0.04	-0.01
135	7	15	75.61	8.41	6.66	1.75	0.00	0.98	0.00	0.31	-0.34	-0.02	-0.01	-0.04	-0.01
136	7	16	75.52	8.42	6.65	1.77	0.00	0.98	0.00	0.31	-0.34	-0.02	-0.01	-0.04	-0.01
137	7	17	75.44	8.43	6.63	1.79	0.00	0.98	0.00	0.31	-0.34	-0.02	-0.01	-0.04	-0.01
138	7	18	75.35	8.43	6.62	1.82	0.00	0.98	0.00	0.32	-0.34	-0.02	-0.01	-0.04	-0.01
139	7	19	75.27	8.44	6.60	1.84	0.00	0.98	0.00	0.32	-0.33	-0.02	-0.01	-0.04	-0.01
140	7	20	75.18	8.45	6.59	1.86	0.00	0.98	0.00	0.32	-0.33	-0.02	-0.01	-0.04	-0.01
141	8	1	75.09	8.46	6.58	1.88	0.00	0.98	0.00	0.33	-0.33	-0.02	-0.01	-0.04	-0.01
142	8	2	75.01	8.46	6.56	1.90	0.00	0.98	0.00	0.33	-0.33	-0.02	-0.01	-0.04	-0.01
143	8	3	74.92	8.47	6.55	1.92	0.00	0.98	0.00	0.33	-0.33	-0.02	-0.01	-0.04	-0.01
144	8	4	74.83	8.48	6.54	1.94	0.00	0.98	0.00	0.34	-0.33	-0.02	-0.01	-0.04	-0.01
145	8	5	74.74	8.49	6.53	1.96	0.00	0.98	0.00	0.34	-0.33	-0.02	-0.01	-0.04	-0.01
146	8	6	74.66	8.49	6.52	1.98	0.00	0.98	0.00	0.34	-0.33	-0.02	-0.01	-0.04	-0.01
147	8	7	74.57	8.50	6.51	2.00	0.00	0.98	0.00	0.35	-0.33	-0.02	-0.01	-0.04	-0.01
148	8	8	74.49	8.51	6.50	2.01	0.00	0.98	0.00	0.35	-0.33	-0.02	-0.01	-0.04	-0.01
149	8	9	74.40	8.52	6.49	2.03	0.00	0.98	0.00	0.35	-0.33	-0.02	-0.01	-0.04	-0.01
150	8	10	74.32	8.52	6.48	2.05	0.00	0.98	0.00	0.35	-0.33	-0.02	-0.01	-0.04	-0.01
151	8	11	74.24	8.53	6.47	2.06	0.00	0.98	0.00	0.36	-0.33	-0.02	-0.01	-0.04	-0.01
152	8	12	74.16	8.54	6.46	2.08	0.00	0.98	0.00	0.36	-0.33	-0.02	-0.01	-0.04	-0.01
153	8	13	74.07	8.55	6.45	2.09	0.00	0.98	0.00	0.36	-0.33	-0.02	-0.01	-0.04	-0.01
154	8	14	73.99	8.55	6.45	2.11	0.00	0.98	0.00	0.36	-0.33	-0.02	-0.01	-0.04	-0.01
155	8	15	73.91	8.56	6.44	2.12	0.00	0.98	0.00	0.36	-0.33	-0.02	-0.01	-0.04	-0.01
156	8	16	73.83	8.57	6.44	2.13	0.00	0.98	0.00	0.37	-0.33	-0.02	-0.01	-0.04	-0.01
157	8	17	73.74	8.58	6.42	2.15	0.00	0.98	0.00	0.37	-0.33	-0.02	-0.01	-0.04	-0.01

158	8	18	73.25	8.62	6.27	2.35	0.00	0.98	0.44	0.40	-0.41	-0.02	0.00	-0.07	-0.01
159	8	19	73.17	8.63	6.25	2.37	0.00	0.98	0.00	0.40	-0.41	-0.02	0.00	-0.07	-0.01
160	8	20	73.10	8.63	6.24	2.40	0.00	0.98	0.00	0.41	-0.41	-0.02	0.00	-0.07	-0.01
161	9	1	73.04	8.64	6.22	2.42	0.00	0.98	0.00	0.41	-0.41	-0.02	0.00	-0.07	-0.01
162	9	2	72.97	8.65	6.21	2.44	0.00	0.98	0.00	0.42	-0.41	-0.02	0.00	-0.07	-0.01
163	9	3	72.91	8.65	6.19	2.46	0.00	0.98	0.00	0.42	-0.41	-0.02	0.00	-0.07	-0.01
164	9	4	73.06	8.64	6.11	2.52	0.00	0.97	0.25	0.43	-0.41	-0.02	0.00	-0.08	-0.01
165	9	5	72.99	8.64	6.10	2.54	0.00	0.97	0.00	0.44	-0.41	-0.02	0.00	-0.08	-0.01
166	9	6	72.93	8.65	6.09	2.56	0.00	0.97	0.00	0.44	-0.41	-0.02	0.00	-0.08	-0.02
167	9	7	72.86	8.66	6.08	2.58	0.00	0.97	0.00	0.44	-0.41	-0.02	0.00	-0.08	-0.02
168	9	8	72.80	8.66	6.07	2.60	0.00	0.97	0.00	0.45	-0.41	-0.02	0.00	-0.08	-0.02

***** STEADY STATE SIMULATION *****

** DISSOLVED OXYGEN DATA **

									COMPONENTS OF DISSOLVED OXYGEN MASS BALANCE (MG/L-DAY)						
ELE ORD	RCH NUM	ELE NUM	TEMP DEG-F	DO SAT MG/L	DO MG/L	DO DEF MG/L	DAM INPUT MG/L	NIT INHIB FACT	F-FNCTN INPUT	OXYGN REAIR	C-BOD	SOD	NET P-R	NH3-N	NO2-N
169	9	9	72.74	8.67	6.06	2.61	0.00	0.97	0.00	0.45	-0.41	-0.02	0.00	-0.07	-0.02
170	9	10	72.67	8.67	6.04	2.63	0.00	0.97	0.00	0.45	-0.41	-0.02	0.00	-0.07	-0.02
171	9	11	72.61	8.68	6.04	2.64	0.00	0.97	0.00	0.45	-0.41	-0.02	0.00	-0.07	-0.02
172	9	12	72.55	8.69	6.03	2.66	0.00	0.97	0.00	0.45	-0.41	-0.02	0.00	-0.07	-0.02
173	9	13	72.49	8.69	6.02	2.67	0.00	0.97	0.00	0.46	-0.41	-0.02	0.00	-0.07	-0.02
174	9	14	72.43	8.70	6.01	2.69	0.00	0.97	0.00	0.46	-0.41	-0.02	0.00	-0.07	-0.02
175	9	15	72.37	8.70	6.00	2.70	0.00	0.97	0.00	0.46	-0.41	-0.02	0.00	-0.07	-0.02
176	9	16	72.31	8.71	6.00	2.71	0.00	0.97	0.00	0.46	-0.41	-0.02	0.00	-0.07	-0.02
177	9	17	72.25	8.71	5.99	2.72	0.00	0.97	0.00	0.46	-0.40	-0.02	0.00	-0.07	-0.02
178	9	18	72.19	8.72	5.98	2.74	0.00	0.97	0.00	0.47	-0.40	-0.02	0.00	-0.06	-0.02
179	9	19	72.13	8.72	5.98	2.75	0.00	0.97	0.00	0.47	-0.40	-0.02	0.00	-0.06	-0.02
180	9	20	72.07	8.73	5.97	2.76	0.00	0.97	0.00	0.47	-0.40	-0.02	0.00	-0.06	-0.02
181	10	1	72.02	8.73	5.97	2.77	0.00	0.97	0.00	0.47	-0.40	-0.02	0.00	-0.06	-0.02
182	10	2	71.96	8.74	5.96	2.78	0.00	0.97	0.00	0.48	-0.40	-0.02	0.00	-0.06	-0.02
183	10	3	71.91	8.74	5.96	2.78	0.00	0.97	0.00	0.48	-0.40	-0.02	0.00	-0.06	-0.02
184	10	4	71.86	8.75	5.96	2.79	0.00	0.97	0.00	0.48	-0.40	-0.02	0.00	-0.06	-0.02
185	10	5	71.81	8.75	5.95	2.80	0.00	0.97	0.00	0.48	-0.40	-0.02	0.00	-0.06	-0.02
186	10	6	71.75	8.76	5.95	2.81	0.00	0.97	0.00	0.48	-0.40	-0.02	0.00	-0.06	-0.02
187	10	7	71.70	8.76	5.95	2.81	0.00	0.97	0.00	0.48	-0.40	-0.02	0.00	-0.06	-0.02
188	10	8	71.64	8.77	5.95	2.82	0.00	0.97	0.03	0.49	-0.40	-0.02	0.00	-0.06	-0.02
189	10	9	71.59	8.77	5.95	2.83	0.00	0.97	0.00	0.49	-0.40	-0.02	0.00	-0.06	-0.02
190	10	10	71.54	8.78	5.95	2.83	0.00	0.97	0.00	0.49	-0.40	-0.02	0.00	-0.06	-0.02
191	10	11	71.49	8.78	5.95	2.84	0.00	0.97	0.00	0.49	-0.40	-0.02	0.00	-0.06	-0.02
192	10	12	71.44	8.79	5.94	2.84	0.00	0.97	0.00	0.49	-0.40	-0.02	0.00	-0.05	-0.02

193	10	13	71.39	8.79	5.94	2.85	0.00	0.97	0.00	0.49	-0.40	-0.02	0.00	-0.05	-0.02
194	10	14	71.34	8.80	5.94	2.85	0.00	0.97	0.00	0.49	-0.40	-0.02	0.00	-0.05	-0.02
195	10	15	71.29	8.80	5.94	2.86	0.00	0.97	0.00	0.49	-0.40	-0.02	0.00	-0.05	-0.02
196	10	16	71.24	8.81	5.94	2.86	0.00	0.97	0.00	0.49	-0.40	-0.02	0.00	-0.05	-0.02
197	10	17	71.20	8.81	5.94	2.87	0.00	0.97	0.00	0.49	-0.40	-0.02	0.00	-0.05	-0.02
198	10	18	71.15	8.82	5.94	2.87	0.00	0.97	0.00	0.49	-0.39	-0.02	0.00	-0.05	-0.02
199	10	19	71.10	8.82	5.94	2.88	0.00	0.97	0.00	0.49	-0.39	-0.02	0.00	-0.05	-0.02
200	10	20	71.05	8.82	5.94	2.88	0.00	0.97	0.00	0.49	-0.39	-0.02	0.00	-0.05	-0.02
201	11	1	71.01	8.83	5.94	2.88	0.00	0.97	0.00	0.50	-0.39	-0.02	0.00	-0.05	-0.02
202	11	2	70.96	8.83	5.95	2.89	0.00	0.97	0.00	0.50	-0.39	-0.02	0.00	-0.05	-0.02
203	11	3	70.92	8.84	5.95	2.89	0.00	0.97	0.00	0.50	-0.39	-0.02	0.00	-0.05	-0.02
204	11	4	70.88	8.84	5.95	2.89	0.00	0.97	0.00	0.50	-0.39	-0.02	0.00	-0.05	-0.02
205	11	5	70.83	8.85	5.95	2.90	0.00	0.97	0.00	0.50	-0.39	-0.02	0.00	-0.05	-0.02
206	11	6	70.79	8.85	5.95	2.90	0.00	0.97	0.00	0.50	-0.39	-0.02	0.00	-0.05	-0.02
207	11	7	70.75	8.85	5.95	2.90	0.00	0.97	0.00	0.50	-0.39	-0.02	0.00	-0.05	-0.02
208	11	8	70.71	8.86	5.96	2.90	0.00	0.97	0.00	0.50	-0.39	-0.02	0.00	-0.05	-0.02
209	11	9	70.66	8.86	5.96	2.90	0.00	0.97	0.00	0.50	-0.39	-0.02	0.00	-0.05	-0.02
210	11	10	70.62	8.87	5.96	2.90	0.00	0.97	0.00	0.50	-0.39	-0.02	0.00	-0.05	-0.02

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 38
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** DISSOLVED OXYGEN DATA **

									COMPONENTS OF DISSOLVED OXYGEN MASS BALANCE (MG/L-DAY)						
ELE ORD	RCH NUM	ELE NUM	TEMP DEG-F	DO SAT MG/L	DO MG/L	DO DEF MG/L	DAM INPUT MG/L	NIT INHIB FACT	F-FNCTN INPUT	OXYGN REAIR	C-BOD	SOD	NET P-R	NH3-N	NO2-N
211	11	11	70.58	8.87	5.96	2.91	0.00	0.97	0.00	0.50	-0.39	-0.02	0.00	-0.05	-0.02
212	11	12	70.54	8.87	5.97	2.91	0.00	0.97	0.00	0.50	-0.39	-0.02	0.00	-0.05	-0.02
213	11	13	70.50	8.88	5.97	2.91	0.00	0.97	0.00	0.50	-0.39	-0.02	0.00	-0.05	-0.02
214	11	14	70.46	8.88	5.97	2.91	0.00	0.97	0.00	0.50	-0.39	-0.02	0.00	-0.05	-0.02
215	11	15	70.42	8.89	5.97	2.91	0.00	0.97	0.00	0.50	-0.39	-0.02	0.00	-0.05	-0.02
216	11	16	70.38	8.89	5.98	2.91	0.00	0.97	0.00	0.50	-0.39	-0.02	0.00	-0.05	-0.02
217	11	17	70.34	8.89	5.98	2.91	0.00	0.97	0.00	0.50	-0.39	-0.02	0.00	-0.05	-0.02
218	11	18	70.30	8.90	5.98	2.91	0.00	0.97	0.00	0.50	-0.39	-0.02	0.00	-0.05	-0.02
219	11	19	70.26	8.90	5.99	2.91	0.00	0.97	0.00	0.50	-0.38	-0.02	0.00	-0.04	-0.02
220	11	20	70.22	8.90	5.99	2.92	0.00	0.97	0.00	0.50	-0.38	-0.02	0.00	-0.04	-0.02
221	12	1	70.18	8.91	5.99	2.92	0.00	0.97	0.00	0.45	-0.38	-0.02	0.00	-0.04	-0.02
222	12	2	70.15	8.91	5.98	2.94	0.00	0.97	0.00	0.40	-0.38	-0.02	0.00	-0.04	-0.02
223	12	3	70.11	8.92	5.97	2.95	0.00	0.97	0.00	0.40	-0.38	-0.02	0.00	-0.04	-0.02
224	12	4	70.07	8.92	5.96	2.96	0.00	0.97	0.00	0.40	-0.38	-0.02	0.00	-0.04	-0.02
225	12	5	70.04	8.92	5.95	2.97	0.00	0.97	0.00	0.40	-0.38	-0.02	0.00	-0.04	-0.02
226	12	6	70.00	8.93	5.94	2.98	0.00	0.97	0.00	0.40	-0.38	-0.02	0.00	-0.04	-0.02
227	12	7	69.96	8.93	5.93	3.00	0.00	0.97	0.00	0.40	-0.38	-0.02	0.00	-0.04	-0.02

228	12	8	69.93	8.93	5.93	3.01	0.00	0.97	0.00	0.40	-0.38	-0.02	0.00	-0.04	-0.02
229	12	9	69.89	8.94	5.92	3.02	0.00	0.97	0.00	0.41	-0.38	-0.02	0.00	-0.04	-0.02
230	12	10	69.86	8.94	5.91	3.03	0.00	0.97	0.00	0.41	-0.38	-0.02	0.00	-0.04	-0.02
231	12	11	69.82	8.94	5.90	3.04	0.00	0.97	0.00	0.41	-0.38	-0.02	0.00	-0.04	-0.02
232	12	12	69.79	8.95	5.90	3.05	0.00	0.97	0.00	0.41	-0.38	-0.02	0.00	-0.04	-0.02
233	12	13	69.75	8.95	5.89	3.06	0.00	0.97	0.00	0.41	-0.38	-0.02	0.00	-0.04	-0.02
234	12	14	69.72	8.95	5.89	3.07	0.00	0.97	0.00	0.41	-0.37	-0.02	0.00	-0.04	-0.02
235	12	15	69.69	8.96	5.88	3.08	0.00	0.97	0.00	0.41	-0.37	-0.02	0.00	-0.04	-0.02
236	12	16	69.65	8.96	5.88	3.08	0.00	0.97	0.00	0.41	-0.37	-0.02	0.00	-0.04	-0.02
237	12	17	69.62	8.96	5.87	3.09	0.00	0.97	0.00	0.41	-0.37	-0.02	0.00	-0.04	-0.02
238	12	18	69.59	8.97	5.87	3.10	0.00	0.97	0.00	0.41	-0.37	-0.02	0.00	-0.04	-0.02
239	12	19	69.55	8.97	5.86	3.11	0.00	0.97	0.00	0.42	-0.37	-0.02	0.00	-0.04	-0.02
240	12	20	69.52	8.97	5.86	3.12	0.00	0.97	0.00	0.42	-0.37	-0.02	0.00	-0.04	-0.02
241	13	1	69.49	8.98	5.85	3.13	0.00	0.97	0.00	0.38	-0.37	-0.01	-0.01	-0.04	-0.01
242	13	2	69.46	8.98	5.83	3.15	0.00	0.97	0.00	0.35	-0.37	-0.01	-0.01	-0.04	-0.01
243	13	3	69.42	8.98	5.82	3.16	0.00	0.97	0.00	0.35	-0.37	-0.01	-0.01	-0.04	-0.01
244	13	4	69.39	8.98	5.80	3.18	0.00	0.97	0.00	0.35	-0.37	-0.01	-0.01	-0.04	-0.01
245	13	5	69.36	8.99	5.79	3.20	0.00	0.97	0.00	0.35	-0.37	-0.01	-0.01	-0.04	-0.01
246	13	6	69.33	8.99	5.78	3.21	0.00	0.97	0.00	0.35	-0.37	-0.01	-0.01	-0.04	-0.01
247	13	7	69.30	8.99	5.76	3.23	0.00	0.97	0.00	0.35	-0.36	-0.01	0.00	-0.04	-0.01
248	13	8	69.27	9.00	5.75	3.25	0.00	0.97	0.00	0.36	-0.36	-0.01	0.00	-0.04	-0.01
249	13	9	69.24	9.00	5.74	3.26	0.00	0.97	0.00	0.36	-0.36	-0.01	0.00	-0.04	-0.01
250	13	10	69.21	9.00	5.73	3.28	0.00	0.97	0.00	0.36	-0.36	-0.01	0.00	-0.04	-0.01
251	13	11	69.18	9.01	5.72	3.29	0.00	0.97	0.00	0.36	-0.36	-0.01	0.00	-0.04	-0.01
252	13	12	69.15	9.01	5.71	3.30	0.00	0.97	0.00	0.36	-0.36	-0.01	0.00	-0.04	-0.01

STREAM QUALITY SIMULATION OUTPUT PAGE NUMBER 39
QUAL-2E STREAM QUALITY ROUTING MODEL Version 3.21 - Feb. 1995

***** STEADY STATE SIMULATION *****

** DISSOLVED OXYGEN DATA **

									COMPONENTS OF DISSOLVED OXYGEN MASS BALANCE (MG/L-DAY)						
ELE ORD	RCH NUM	ELE NUM	TEMP DEG-F	DO SAT MG/L	DO MG/L	DO DEF MG/L	DAM INPUT MG/L	NIT INHIB FACT	F-FNCTN INPUT	OXYGN REAIR	C-BOD	SOD	NET P-R	NH3-N	NO2-N
253	13	13	69.12	9.01	5.69	3.32	0.00	0.97	0.00	0.36	-0.36	-0.01	0.00	-0.04	-0.01
254	13	14	69.09	9.01	5.68	3.33	0.00	0.97	0.00	0.36	-0.36	-0.01	0.00	-0.04	-0.01
255	13	15	69.07	9.02	5.67	3.34	0.00	0.97	0.00	0.37	-0.36	-0.01	0.00	-0.04	-0.01
256	13	16	69.04	9.02	5.67	3.35	0.00	0.97	0.00	0.37	-0.36	-0.01	0.00	-0.04	-0.01
257	13	17	69.01	9.02	5.66	3.37	0.00	0.97	0.00	0.37	-0.36	-0.01	0.00	-0.04	-0.01
258	13	18	68.98	9.03	5.65	3.38	0.00	0.97	0.00	0.37	-0.36	-0.01	0.00	-0.04	-0.01
259	13	19	68.95	9.03	5.64	3.39	0.00	0.97	0.00	0.37	-0.35	-0.01	0.00	-0.04	-0.01
260	13	20	68.92	9.03	5.63	3.40	0.00	0.97	0.00	0.37	-0.35	-0.01	0.00	-0.04	-0.01
261	14	1	68.89	9.03	5.63	3.41	0.00	0.97	0.00	0.39	-0.35	-0.01	0.00	-0.04	-0.01
262	14	2	68.86	9.04	5.62	3.41	0.00	0.97	0.00	0.40	-0.35	-0.01	0.00	-0.04	-0.01

263	14	3	68.83	9.04	5.62	3.42	0.00	0.97	0.00	0.40	-0.35	-0.01	0.00	-0.04	-0.01
264	14	4	68.80	9.04	5.62	3.42	0.00	0.97	0.00	0.40	-0.35	-0.01	0.00	-0.04	-0.01
265	14	5	68.77	9.05	5.62	3.43	0.00	0.97	0.00	0.41	-0.35	-0.01	0.00	-0.04	-0.01
266	14	6	68.74	9.05	5.62	3.43	0.00	0.97	0.00	0.41	-0.35	-0.01	0.00	-0.04	-0.01
267	14	7	68.71	9.05	5.61	3.44	0.00	0.97	0.00	0.41	-0.35	-0.01	0.00	-0.04	-0.01
268	14	8	68.68	9.06	5.61	3.44	0.00	0.97	0.00	0.41	-0.35	-0.01	0.00	-0.04	-0.01
269	14	9	68.65	9.06	5.61	3.45	0.00	0.97	0.00	0.41	-0.34	-0.01	0.00	-0.04	-0.01
270	14	10	68.62	9.06	5.61	3.45	0.00	0.97	0.00	0.41	-0.34	-0.01	0.00	-0.04	-0.01
271	14	11	68.59	9.06	5.61	3.45	0.00	0.97	0.00	0.41	-0.34	-0.01	0.00	-0.04	-0.01
272	14	12	68.56	9.07	5.61	3.46	0.00	0.97	0.00	0.41	-0.34	-0.01	0.00	-0.04	-0.01
273	14	13	68.53	9.07	5.61	3.46	0.00	0.97	0.00	0.41	-0.34	-0.01	0.00	-0.04	-0.01
274	14	14	68.50	9.07	5.61	3.46	0.00	0.97	0.00	0.41	-0.34	-0.01	0.00	-0.04	-0.01
275	14	15	68.47	9.08	5.61	3.47	0.00	0.97	0.00	0.41	-0.34	-0.01	0.00	-0.04	-0.01
276	14	16	68.44	9.08	5.61	3.47	0.00	0.97	0.00	0.41	-0.34	-0.01	0.00	-0.04	-0.01
277	14	17	68.42	9.08	5.61	3.47	0.00	0.97	0.00	0.41	-0.34	-0.01	0.00	-0.04	-0.01
278	14	18	68.39	9.08	5.61	3.47	0.00	0.97	0.00	0.41	-0.34	-0.01	0.00	-0.04	-0.01
279	14	19	68.36	9.09	5.61	3.47	0.00	0.97	0.00	0.41	-0.34	-0.01	0.00	-0.04	-0.01
280	14	20	68.33	9.09	5.61	3.48	0.00	0.97	0.00	0.41	-0.33	-0.01	0.00	-0.03	-0.01
281	15	1	68.30	9.09	5.62	3.47	0.00	0.97	0.00	0.43	-0.33	-0.01	0.00	-0.03	-0.01
282	15	2	68.27	9.10	5.63	3.47	0.00	0.97	0.00	0.45	-0.33	-0.01	0.00	-0.03	-0.01
283	15	3	68.24	9.10	5.63	3.46	0.00	0.97	0.00	0.44	-0.33	-0.01	0.00	-0.03	-0.01
284	15	4	68.21	9.10	5.64	3.46	0.00	0.97	0.00	0.44	-0.33	-0.01	0.00	-0.03	-0.01
285	15	5	68.18	9.10	5.65	3.45	0.00	0.97	0.00	0.44	-0.33	-0.01	0.00	-0.03	-0.01
286	15	6	68.15	9.11	5.66	3.45	0.00	0.97	0.00	0.44	-0.33	-0.01	0.00	-0.03	-0.01
287	15	7	68.12	9.11	5.67	3.45	0.00	0.97	0.00	0.44	-0.33	-0.01	0.00	-0.03	-0.01
288	15	8	68.09	9.11	5.67	3.44	0.00	0.97	0.00	0.44	-0.33	-0.01	0.00	-0.03	-0.01
289	15	9	68.07	9.12	5.68	3.44	0.00	0.97	0.00	0.44	-0.33	-0.01	0.00	-0.03	-0.01
290	15	10	68.04	9.12	5.69	3.43	0.00	0.97	0.00	0.44	-0.32	-0.01	0.00	-0.03	-0.01
291	15	11	68.01	9.12	5.70	3.42	0.00	0.97	0.00	0.44	-0.32	-0.01	0.00	-0.03	-0.01
292	15	12	67.98	9.13	5.71	3.42	0.00	0.97	0.00	0.44	-0.32	-0.01	0.00	-0.03	-0.01
293	15	13	67.95	9.13	5.71	3.41	0.00	0.97	0.00	0.44	-0.32	-0.01	0.00	-0.03	-0.01
294	15	14	67.92	9.13	5.72	3.41	0.00	0.97	0.00	0.44	-0.32	-0.01	0.00	-0.03	-0.01

***** STEADY STATE SIMULATION *****

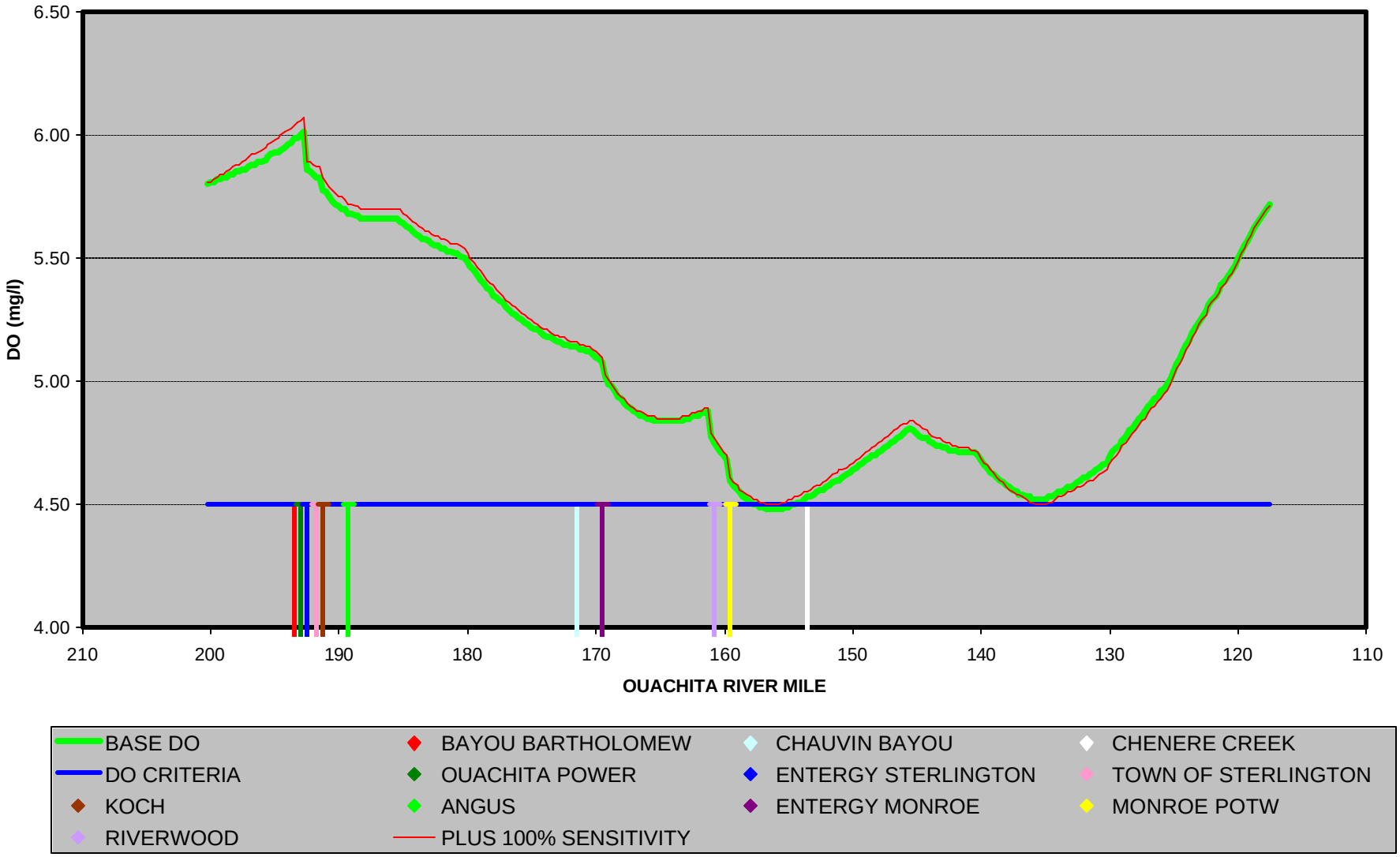
** DISSOLVED OXYGEN DATA **

									COMPONENTS OF DISSOLVED OXYGEN MASS BALANCE (MG/L-DAY)						
ELE ORD	RCH NUM	ELE NUM	TEMP DEG-F	DO SAT MG/L	DO MG/L	DO DEF MG/L	DAM INPUT MG/L	NIT INHIB FACT	F-FNCTN INPUT	OXYGN REAIR	C-BOD	SOD	NET P-R	NH3-N	NO2-N
295	15	15	67.90	9.13	5.73	3.40	0.00	0.97	0.00	0.44	-0.32	-0.01	0.00	-0.03	-0.01
296	15	16	67.87	9.14	5.74	3.40	0.00	0.97	0.00	0.43	-0.32	-0.01	0.00	-0.03	-0.01
297	15	17	67.84	9.14	5.75	3.39	0.00	0.97	0.00	0.43	-0.32	-0.01	0.00	-0.03	-0.01
298	15	18	67.81	9.14	5.75	3.39	0.00	0.97	0.00	0.43	-0.32	-0.01	0.00	-0.03	-0.01
299	15	19	67.79	9.15	5.76	3.38	0.00	0.97	0.00	0.43	-0.32	-0.01	0.00	-0.03	-0.01

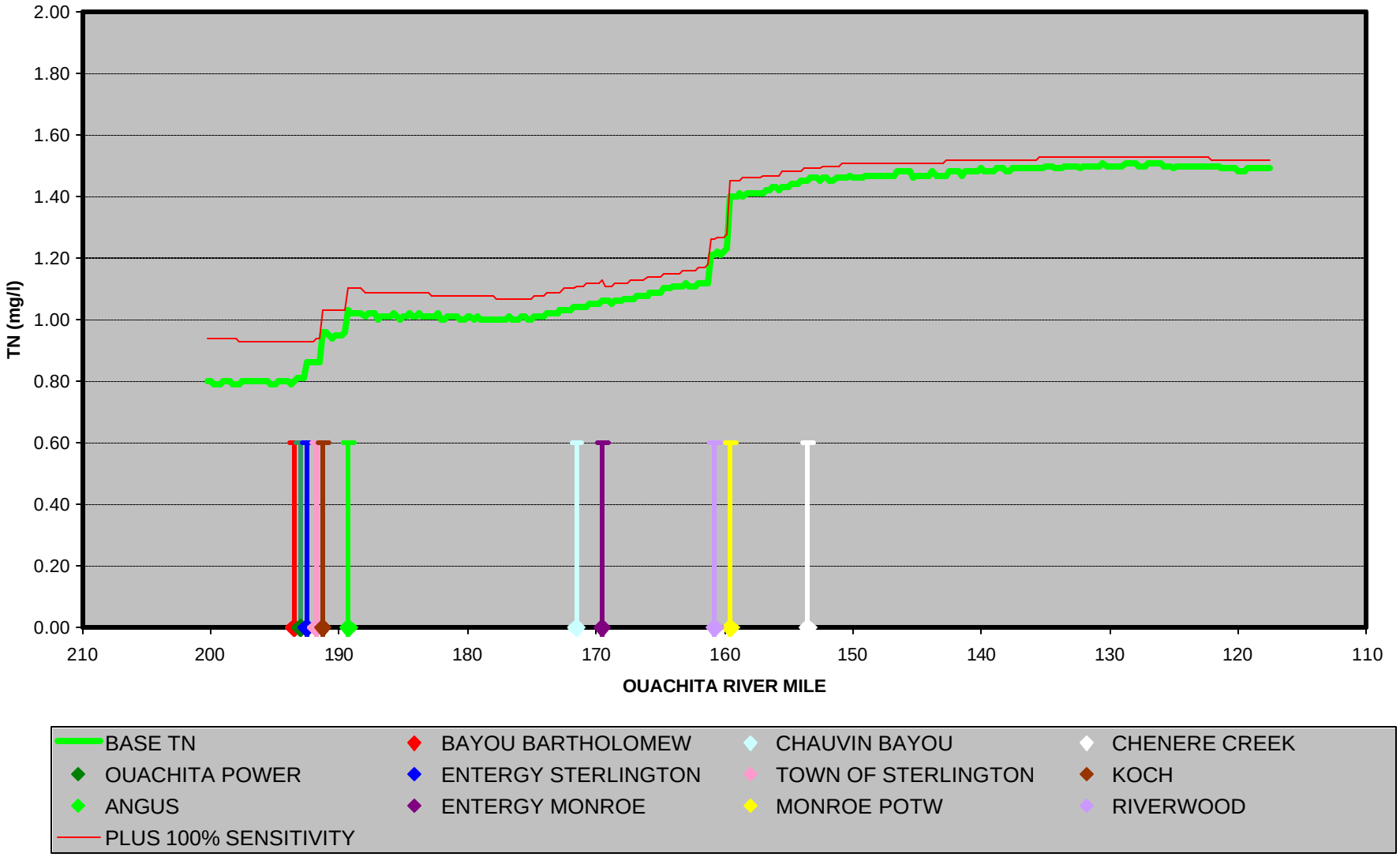
300	15	20	67.76	9.15	5.77	3.38	0.00	0.97	0.00	0.43	-0.32	-0.01	0.00	-0.03	-0.01
301	16	1	67.73	9.15	5.78	3.37	0.00	0.97	0.00	0.45	-0.31	-0.02	0.00	-0.03	-0.01
302	16	2	67.70	9.15	5.80	3.35	0.00	0.97	0.00	0.47	-0.31	-0.02	0.00	-0.03	-0.01
303	16	3	67.67	9.16	5.82	3.34	0.00	0.97	0.00	0.47	-0.31	-0.02	0.00	-0.03	-0.01
304	16	4	67.64	9.16	5.83	3.33	0.00	0.97	0.00	0.47	-0.31	-0.02	0.00	-0.03	-0.01
305	16	5	67.62	9.16	5.85	3.32	0.00	0.97	0.00	0.47	-0.31	-0.02	0.00	-0.03	-0.01
306	16	6	67.59	9.17	5.86	3.30	0.00	0.97	0.00	0.47	-0.31	-0.02	0.00	-0.03	-0.01
307	16	7	67.56	9.17	5.88	3.29	0.00	0.97	0.00	0.46	-0.31	-0.02	0.00	-0.03	-0.01
308	16	8	67.53	9.17	5.89	3.28	0.00	0.97	0.00	0.46	-0.31	-0.02	0.00	-0.03	-0.01
309	16	9	67.50	9.17	5.91	3.27	0.00	0.97	0.00	0.46	-0.31	-0.02	0.00	-0.03	-0.01
310	16	10	67.48	9.18	5.92	3.26	0.00	0.97	0.00	0.46	-0.31	-0.02	0.00	-0.03	-0.01
311	16	11	67.45	9.18	5.94	3.24	0.00	0.97	0.00	0.46	-0.30	-0.02	0.00	-0.03	-0.01
312	16	12	67.42	9.18	5.95	3.23	0.00	0.97	0.00	0.46	-0.30	-0.02	0.00	-0.03	-0.01
313	16	13	67.39	9.18	5.96	3.22	0.00	0.97	0.00	0.45	-0.30	-0.02	0.00	-0.03	-0.01
314	16	14	67.37	9.19	5.98	3.21	0.00	0.97	0.00	0.45	-0.30	-0.02	0.00	-0.03	-0.01
315	16	15	67.34	9.19	5.99	3.20	0.00	0.97	0.00	0.45	-0.30	-0.02	0.00	-0.03	-0.01
316	16	16	67.32	9.19	6.01	3.19	0.00	0.97	0.00	0.45	-0.30	-0.02	0.00	-0.03	-0.01
317	16	17	67.29	9.20	6.02	3.18	0.00	0.97	0.00	0.45	-0.30	-0.02	0.00	-0.03	-0.01
318	16	18	67.26	9.20	6.03	3.16	0.00	0.97	0.00	0.44	-0.30	-0.02	0.00	-0.03	-0.01
319	16	19	67.24	9.20	6.05	3.15	0.00	0.97	0.00	0.44	-0.30	-0.02	0.00	-0.03	-0.01
320	16	20	67.21	9.20	6.06	3.14	0.00	0.97	0.00	0.44	-0.30	-0.02	0.00	-0.03	-0.01
321	17	1	67.19	9.21	6.08	3.13	0.00	0.97	0.01	0.46	-0.30	-0.02	0.00	-0.03	-0.01
322	17	2	67.16	9.21	6.10	3.11	0.00	0.97	0.01	0.48	-0.30	-0.02	0.00	-0.03	-0.01
323	17	3	67.13	9.21	6.12	3.10	0.00	0.97	0.01	0.48	-0.30	-0.02	0.00	-0.03	-0.01
324	17	4	67.11	9.21	6.13	3.08	0.00	0.97	0.01	0.47	-0.29	-0.02	0.00	-0.03	-0.01
325	17	5	67.08	9.22	6.15	3.06	0.00	0.98	0.01	0.47	-0.29	-0.02	0.00	-0.03	-0.01
326	17	6	67.05	9.22	6.17	3.05	0.00	0.98	0.01	0.47	-0.29	-0.02	0.00	-0.03	-0.01
327	17	7	67.03	9.22	6.19	3.03	0.00	0.98	0.01	0.47	-0.29	-0.02	0.00	-0.03	-0.01
328	17	8	67.00	9.23	6.20	3.02	0.00	0.98	0.01	0.47	-0.29	-0.02	0.00	-0.03	-0.01
329	17	9	66.97	9.23	6.22	3.01	0.00	0.98	0.01	0.46	-0.29	-0.02	0.00	-0.03	-0.01
330	17	10	66.95	9.23	6.24	2.99	0.00	0.98	0.01	0.46	-0.29	-0.02	0.00	-0.03	-0.01
331	17	11	66.92	9.23	6.25	2.98	0.00	0.98	0.01	0.46	-0.29	-0.02	0.00	-0.03	-0.01
332	17	12	66.90	9.23	6.27	2.97	0.00	0.98	0.01	0.46	-0.29	-0.02	0.00	-0.03	-0.01

APPENDIX M - NUTRIENT IMPACTS

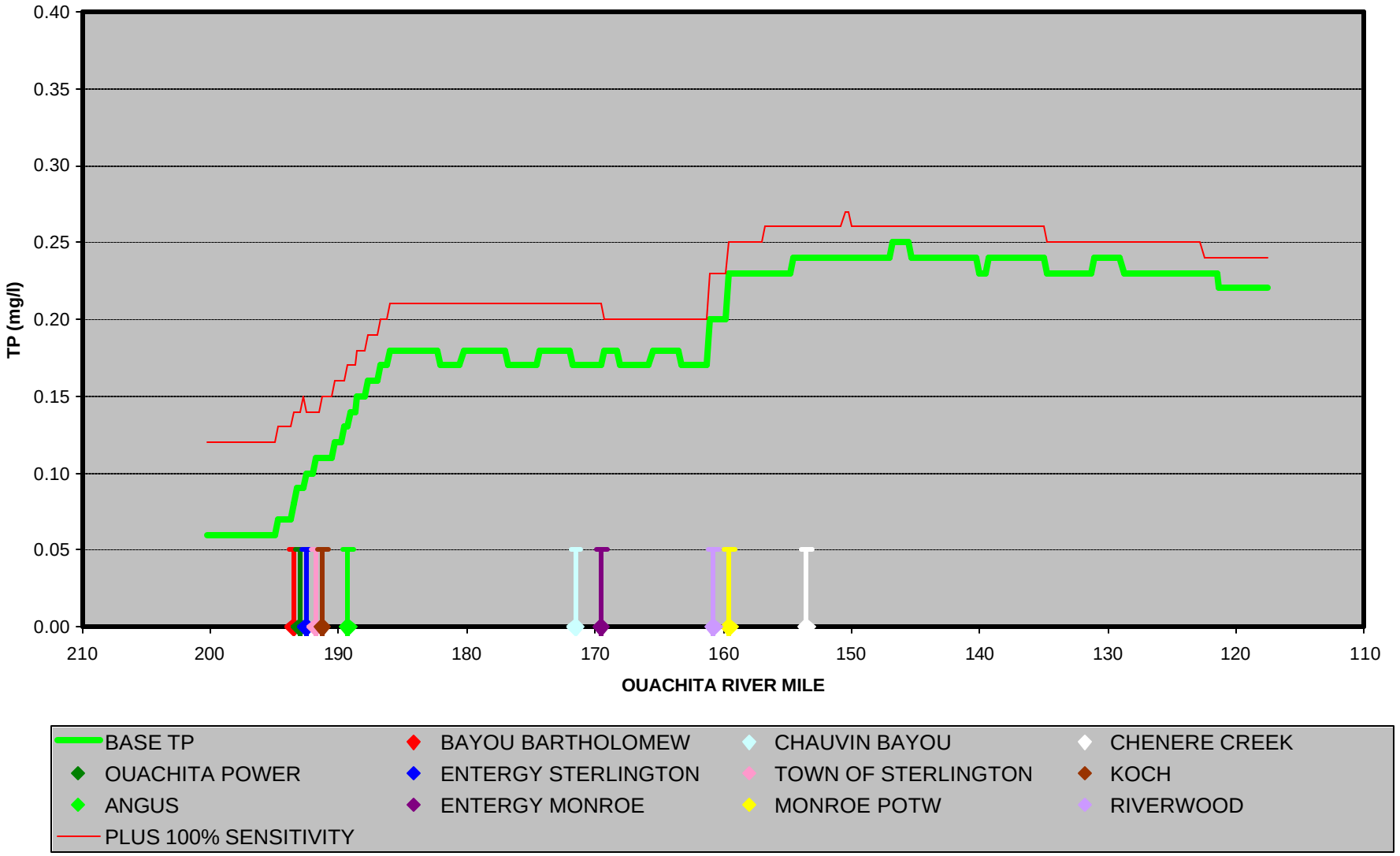
LOWER OUACHITA RIVER AUGUST PROJECTION SENSITIVITY FOR HEADWATER NUTRIENTS - PLUS 100% PERTURBATION - DISSOLVED OXYGEN CHART



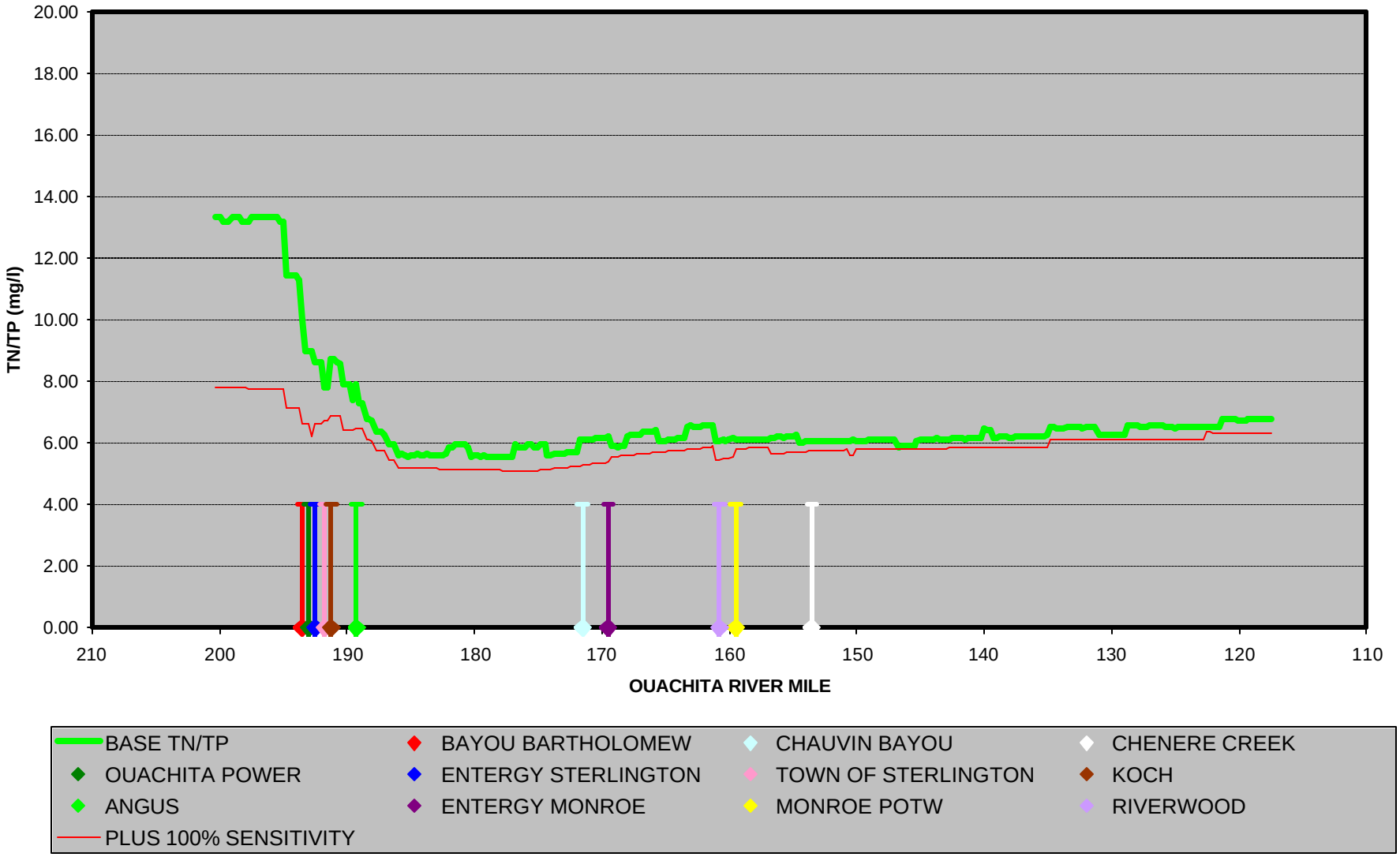
LOWER OUACHITA RIVER AUGUST PROJECTION SENSITIVITY FOR HEADWATER NUTRIENTS - PLUS 100% PERTURBATION - TOTAL NITROGEN CHART



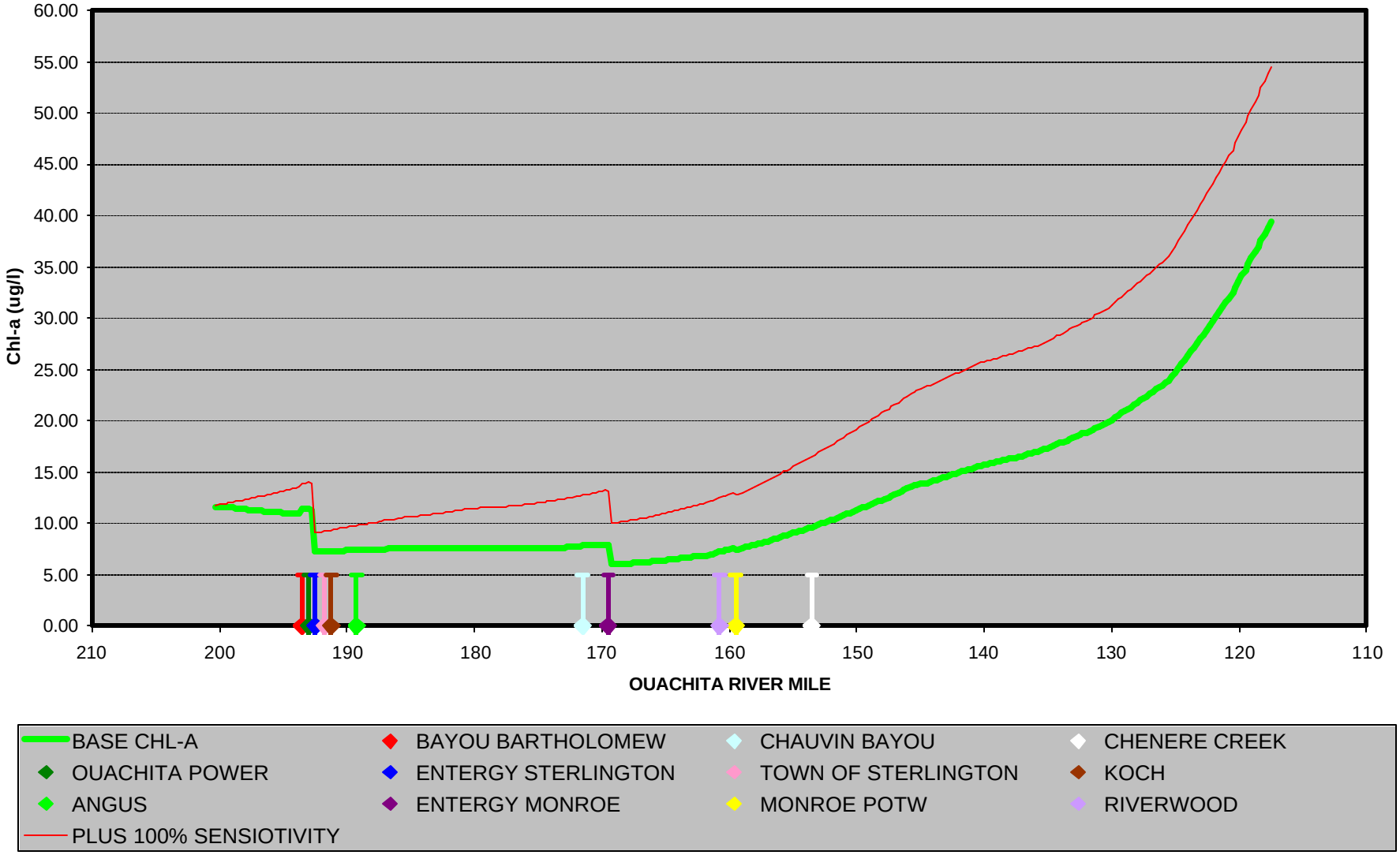
LOWER OUACHITA RIVER AUGUST PROJECTION SENSITIVITY FOR HEADWATER NUTRIENTS - PLUS 100% PERTURBATION - TOTAL PHOSPHORUS CHART



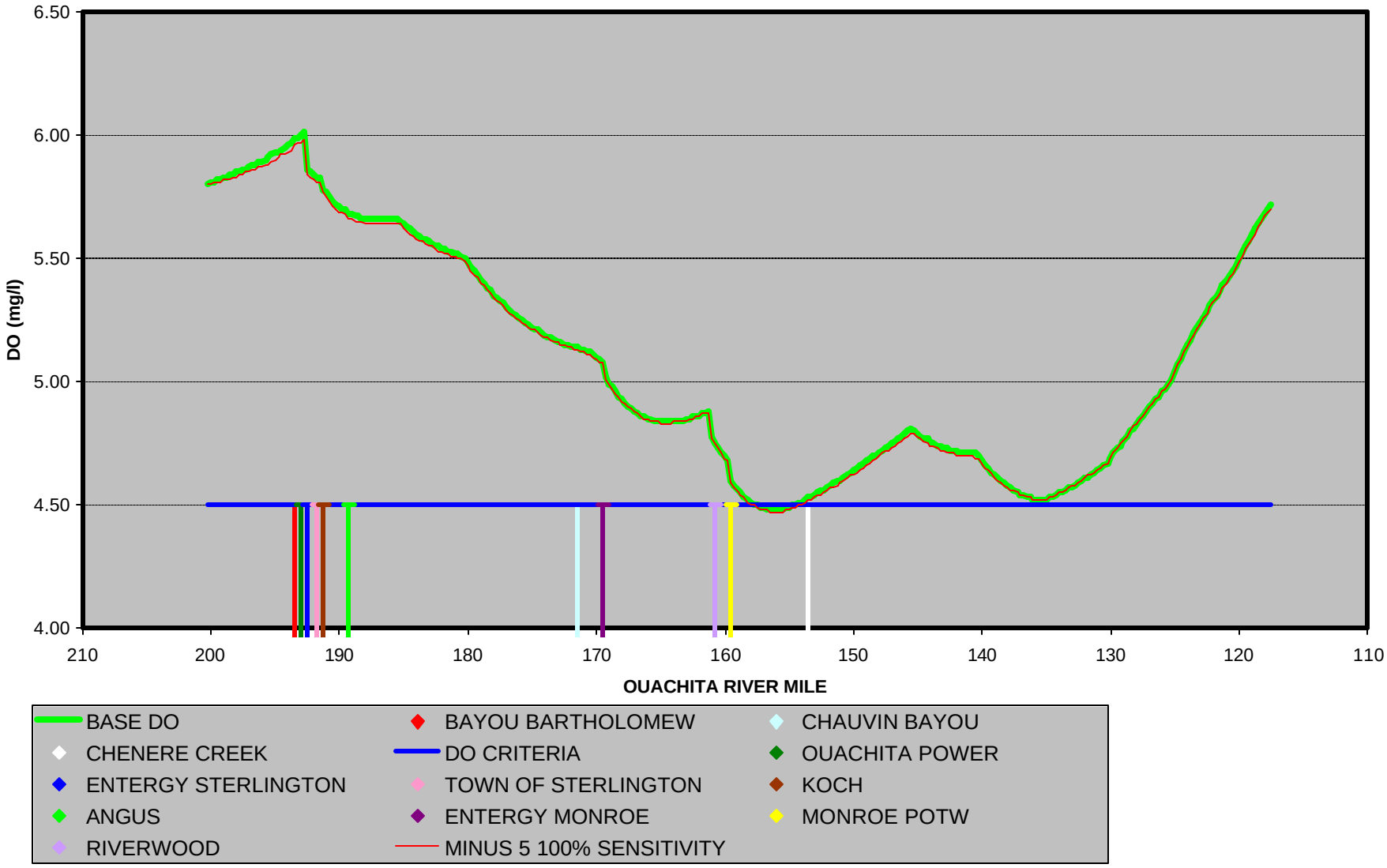
LOWER OUACHITA RIVER AUGUST PROJECTION SENSITIVITY FOR HEADWATER NUTRIENTS - PLUS 100% PERTURBATION - NITROGEN TO PHOSPHORUS RATIO CHART



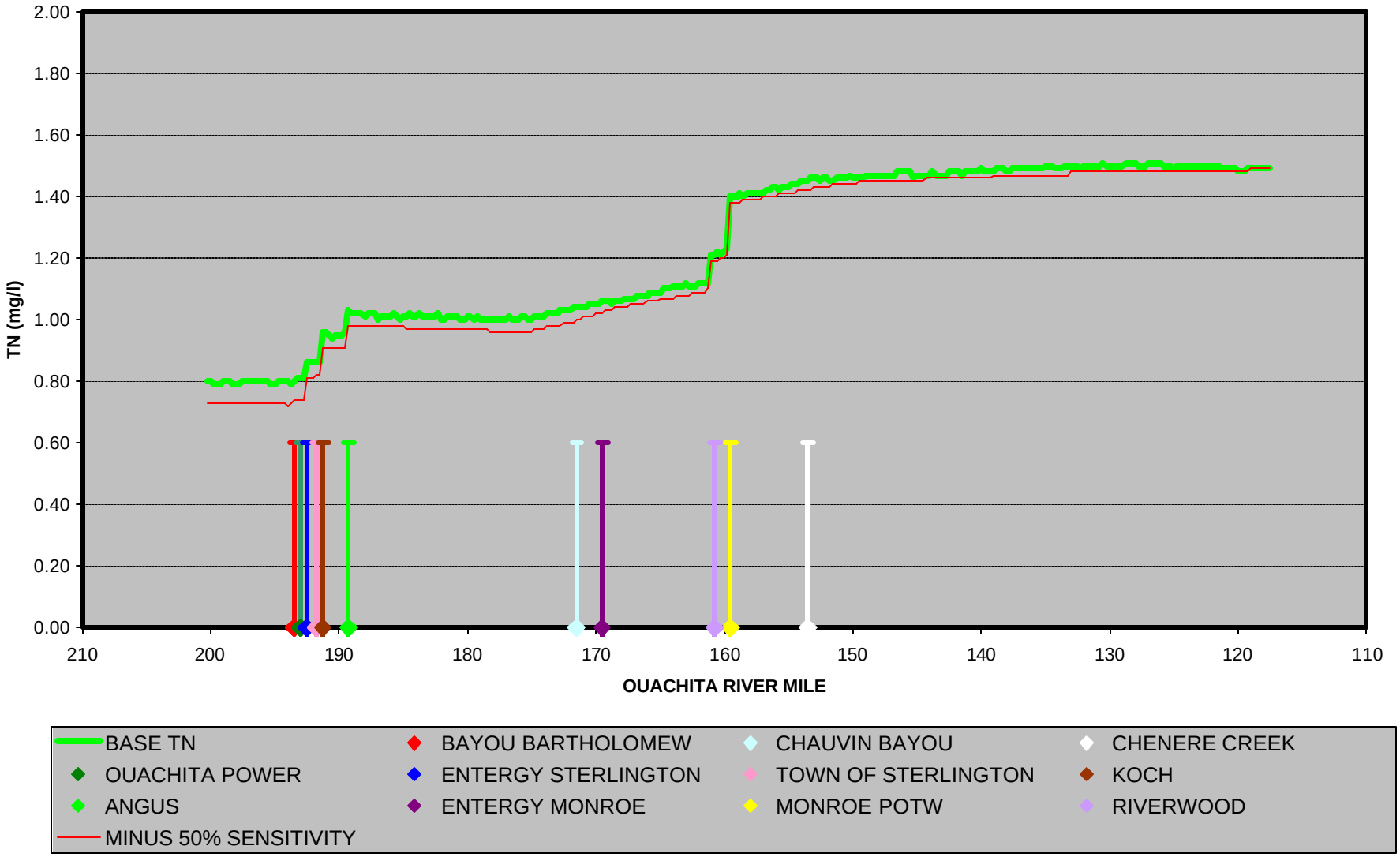
LOWER OUACHITA RIVER AUGUST PROJECTION SENSITIVITY FOR HEADWATER NUTRIENT - PLUS 100% PERTURBATION - CHLOROPHYLL A CHART



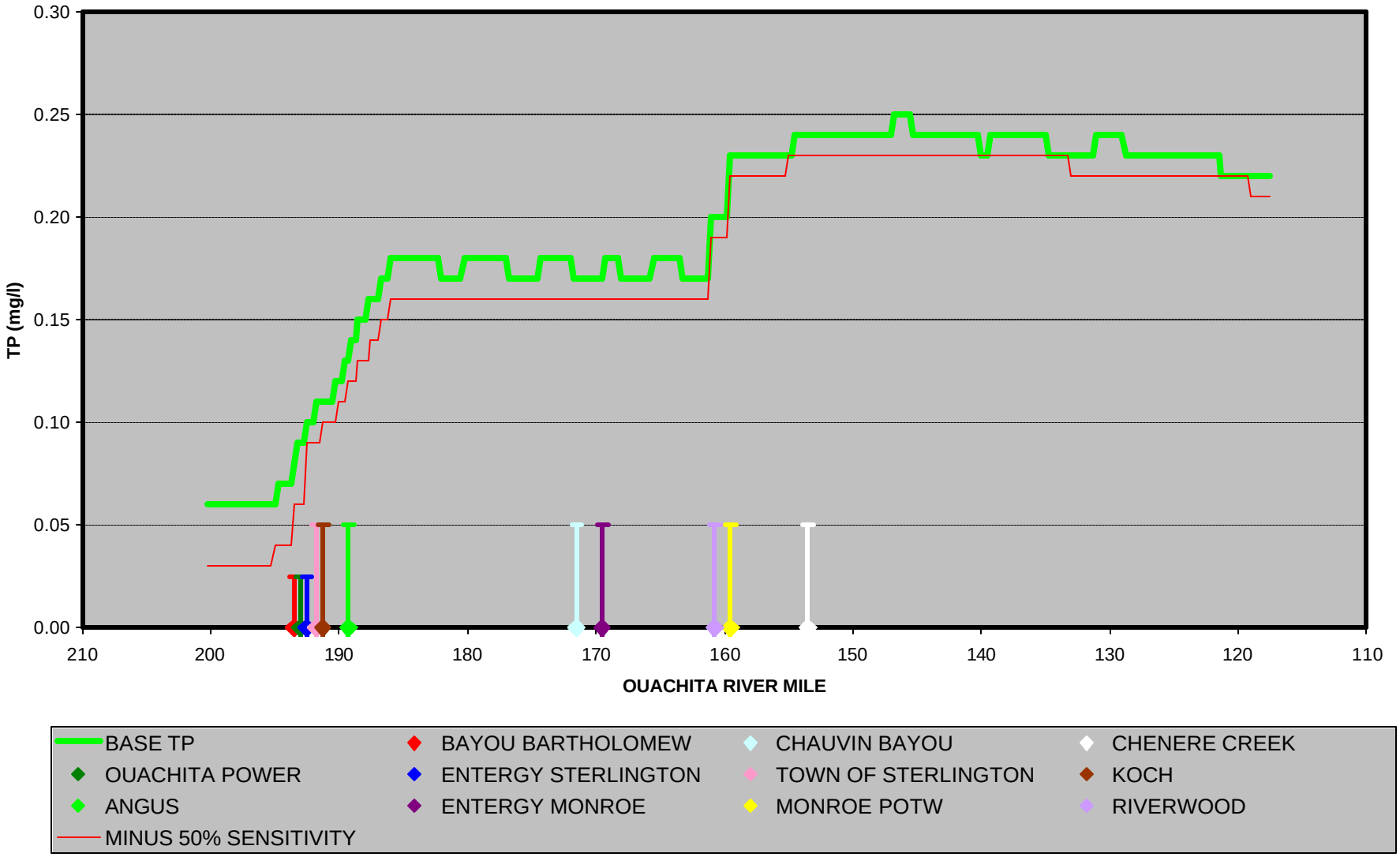
LOWER OUACHITA RIVER AUGUST PROJECTION SENSITIVITY FOR HEADWATER NUTRIENTS - MINUS 50% PERTURBATION - DISSOLVED OXYGEN CHART



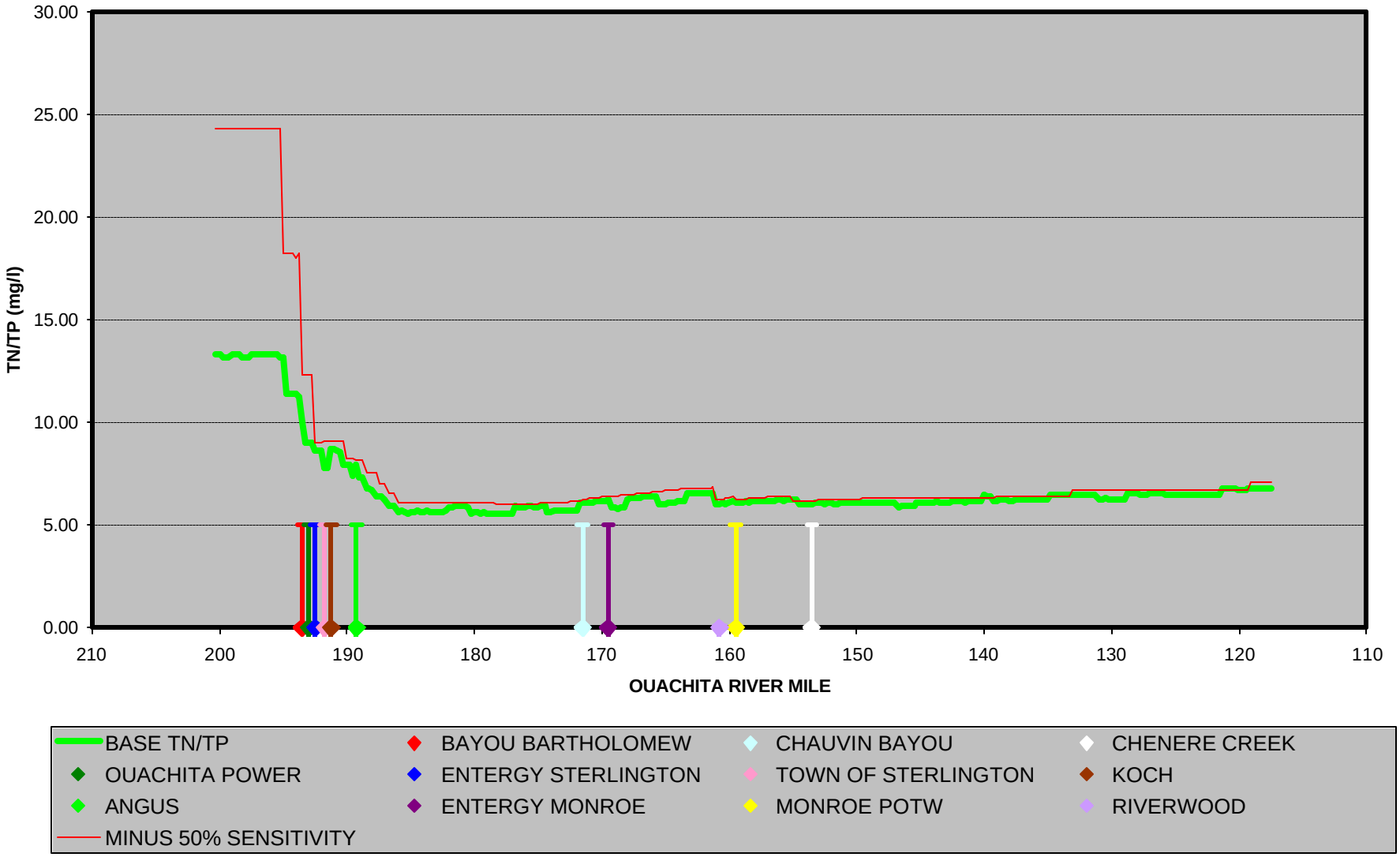
LOWER OUACHITA RIVER AUGUST PROJECTION SENSITIVITY FOR HEADWATER NUTRIENTS - MINUS 50% PERTURBATION - TOTAL NITROGEN CHART



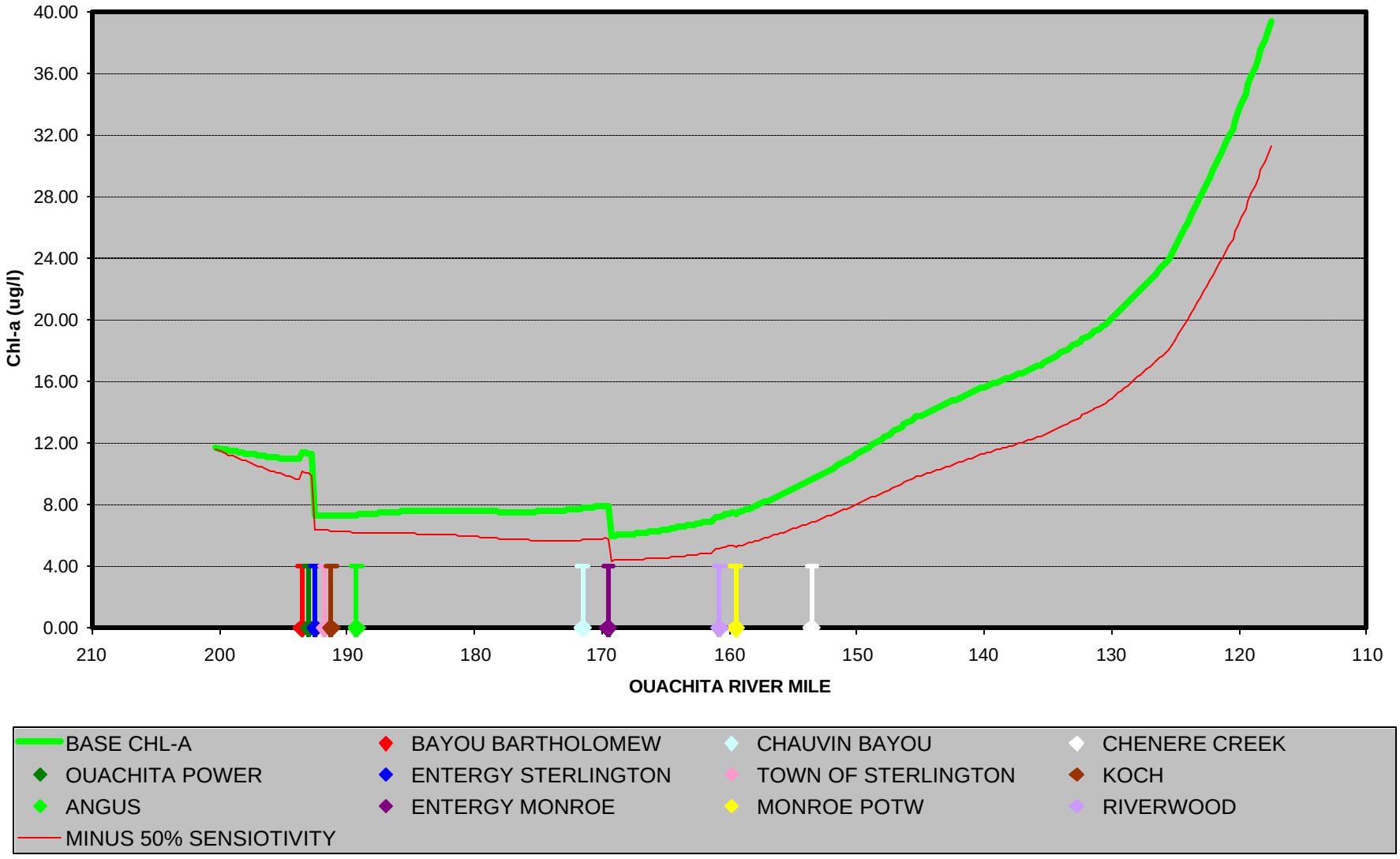
LOWER OUACHITA RIVER AUGUST PROJECTION SENSITIVITY FOR HEADWATER NUTRIENTS - MINUS 50% PERTURBATION - TOTAL PHOSPHORUS CHART



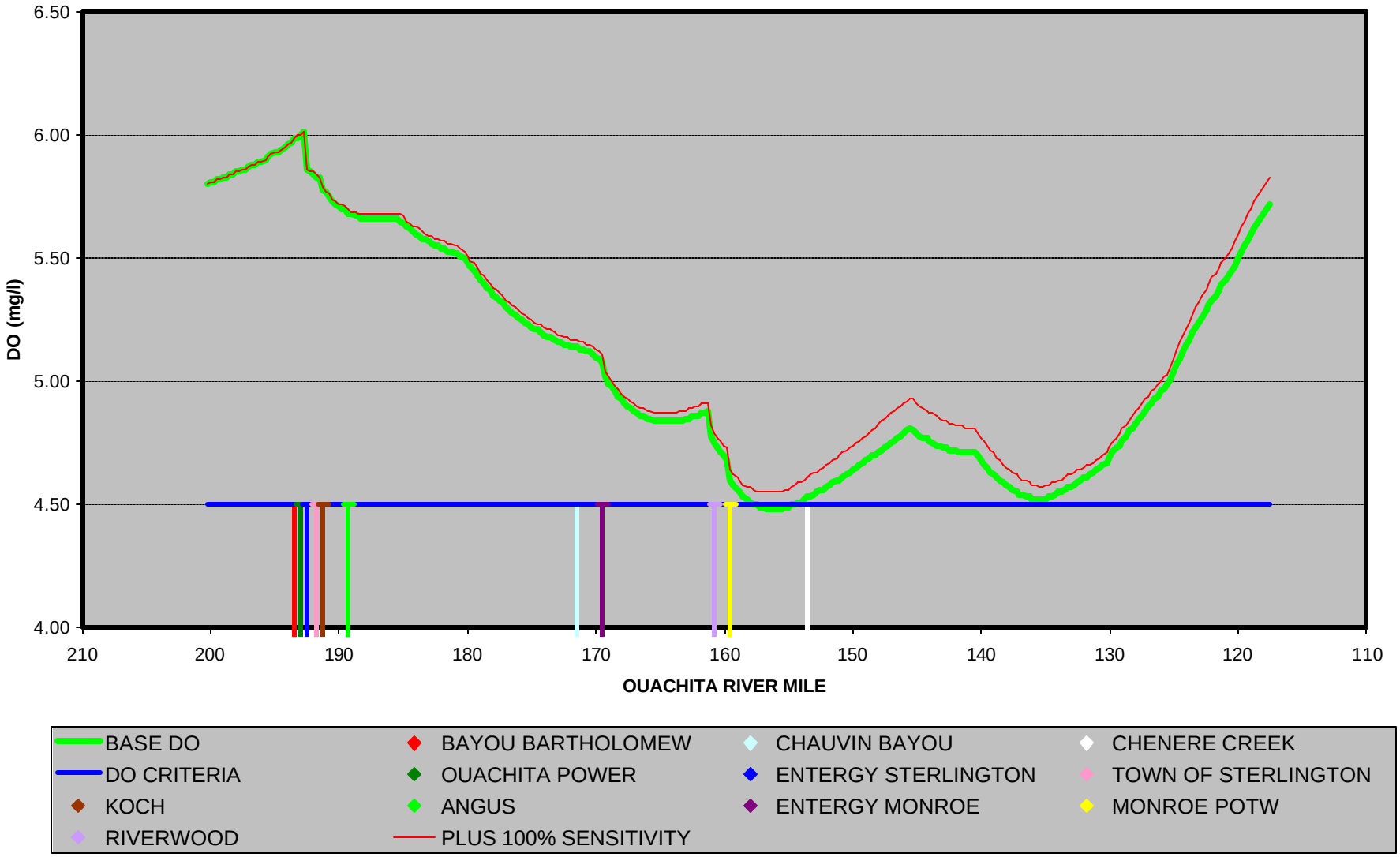
LOWER OUACHITA RIVER AUGUST PROJECTION SENSITIVITY FOR HEADWATER NUTRIENTS - MINUS 50% PERTURBATION - NITROGEN TO PHOSPHORUS RATIO CHART



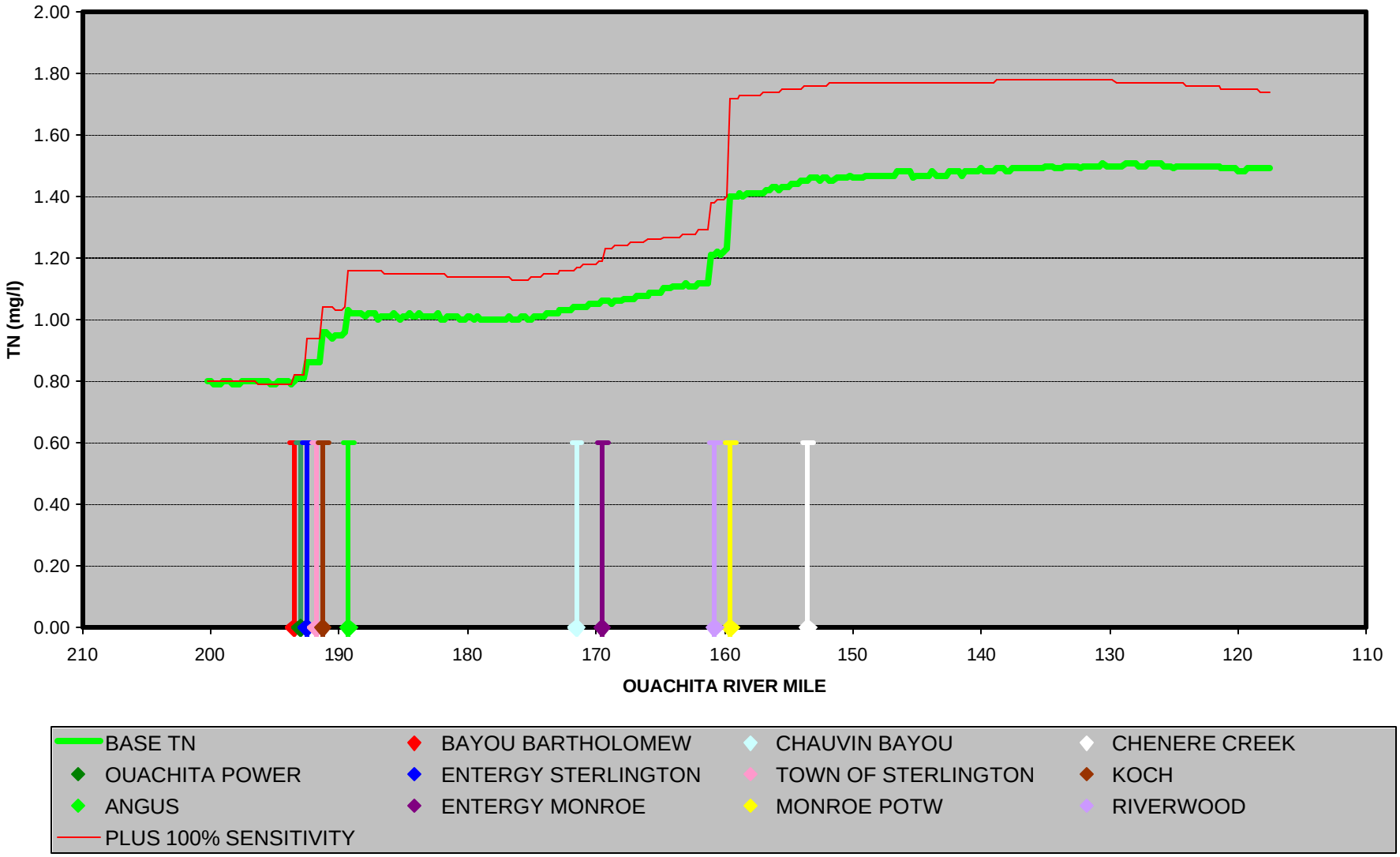
LOWER OUACHITA RIVER AUGUST PROJECTION SENSITIVITY FOR HEADWATER NUTRIENT - MINUS 50% PERTURBATION - CHLOROPHYLL A CHART



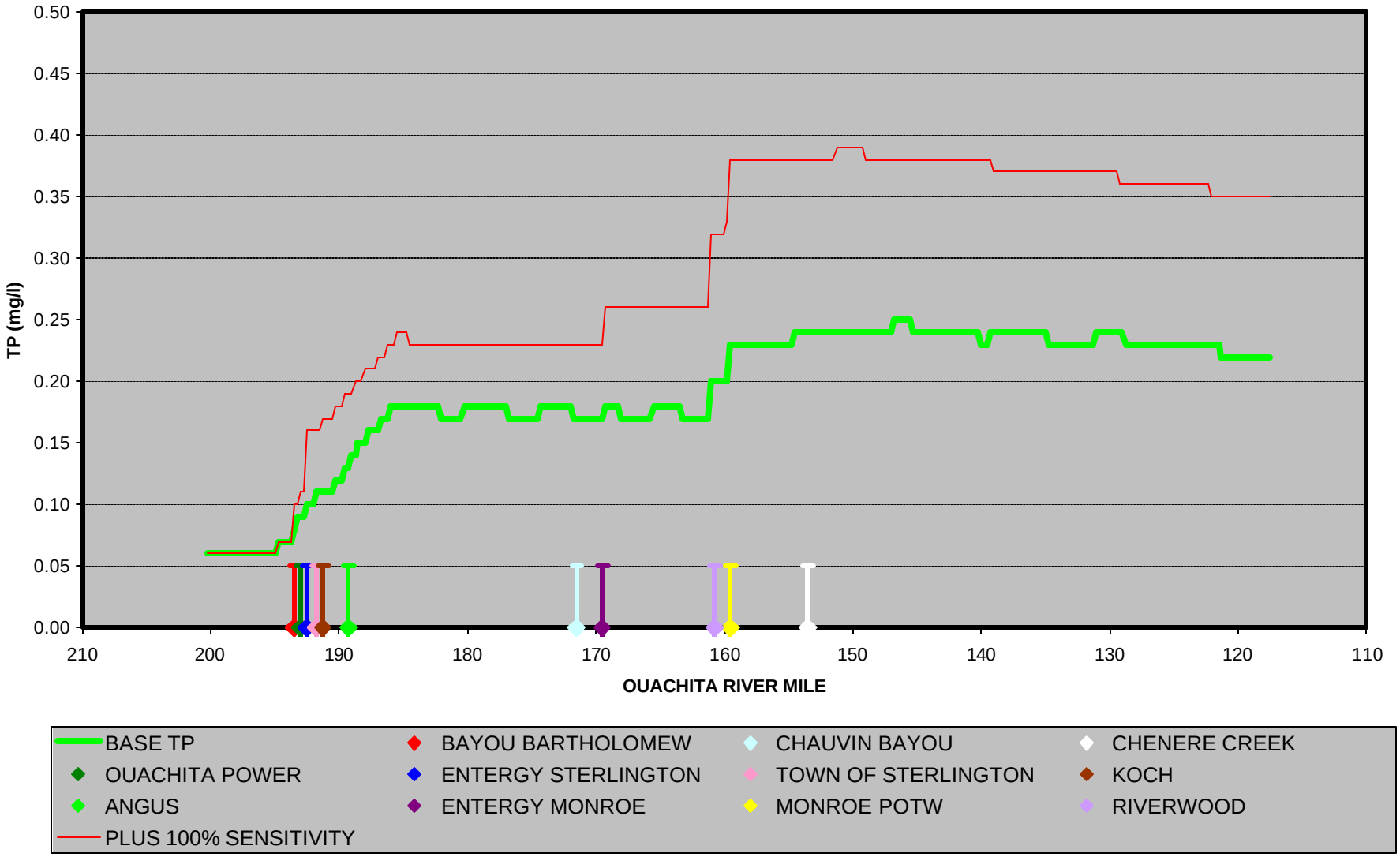
LOWER OUACHITA RIVER AUGUST PROJECTION SENSITIVITY FOR POINT SOURCE NUTRIENTS - PLUS 100% PERTURBATION - DISSOLVED OXYGEN CHART



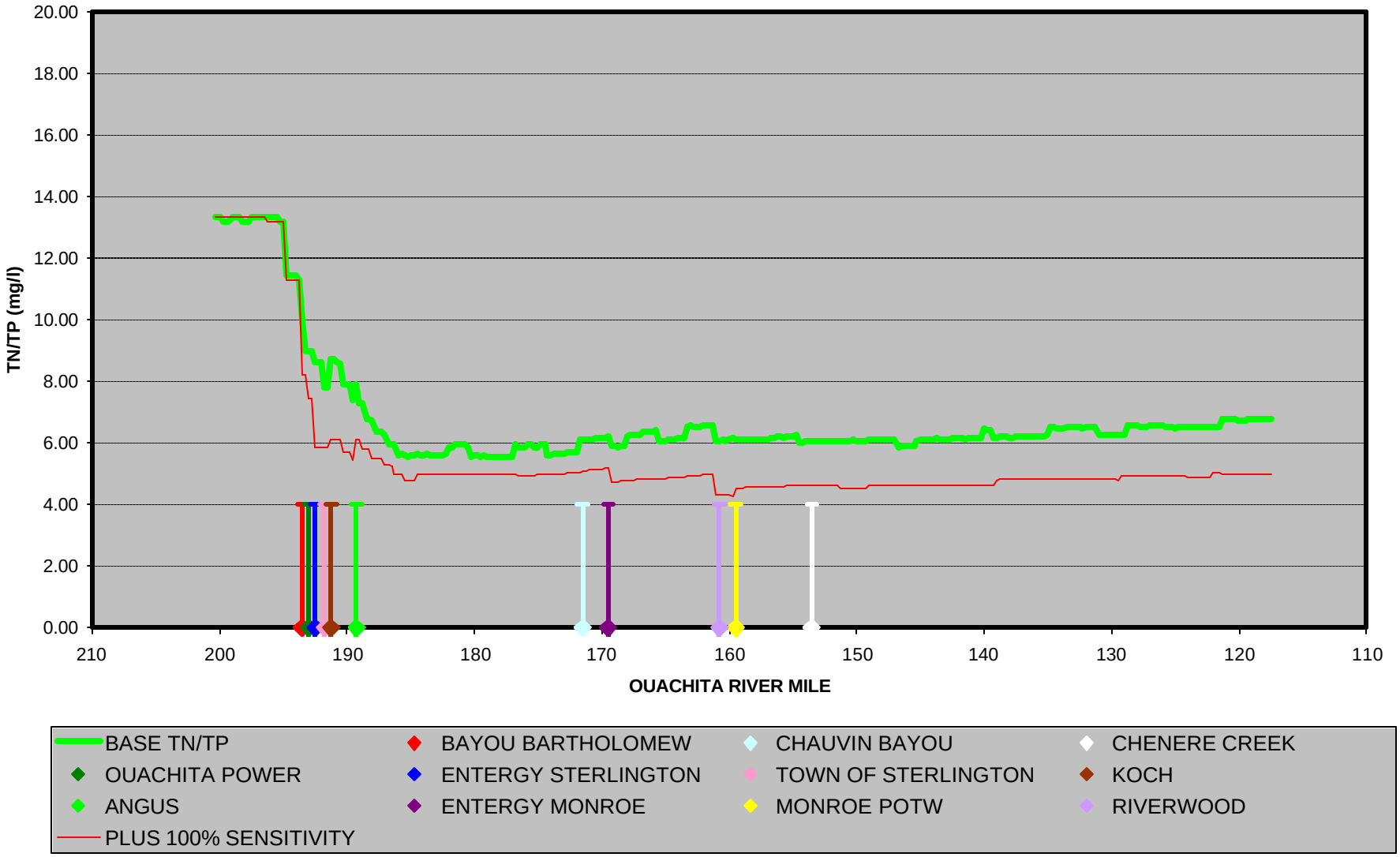
LOWER OUACHITA RIVER AUGUST PROJECTION SENSITIVITY FOR POINT SOURCE NUTRIENTS - PLUS 100% PERTURBATION - TOTAL NITROGEN CHART



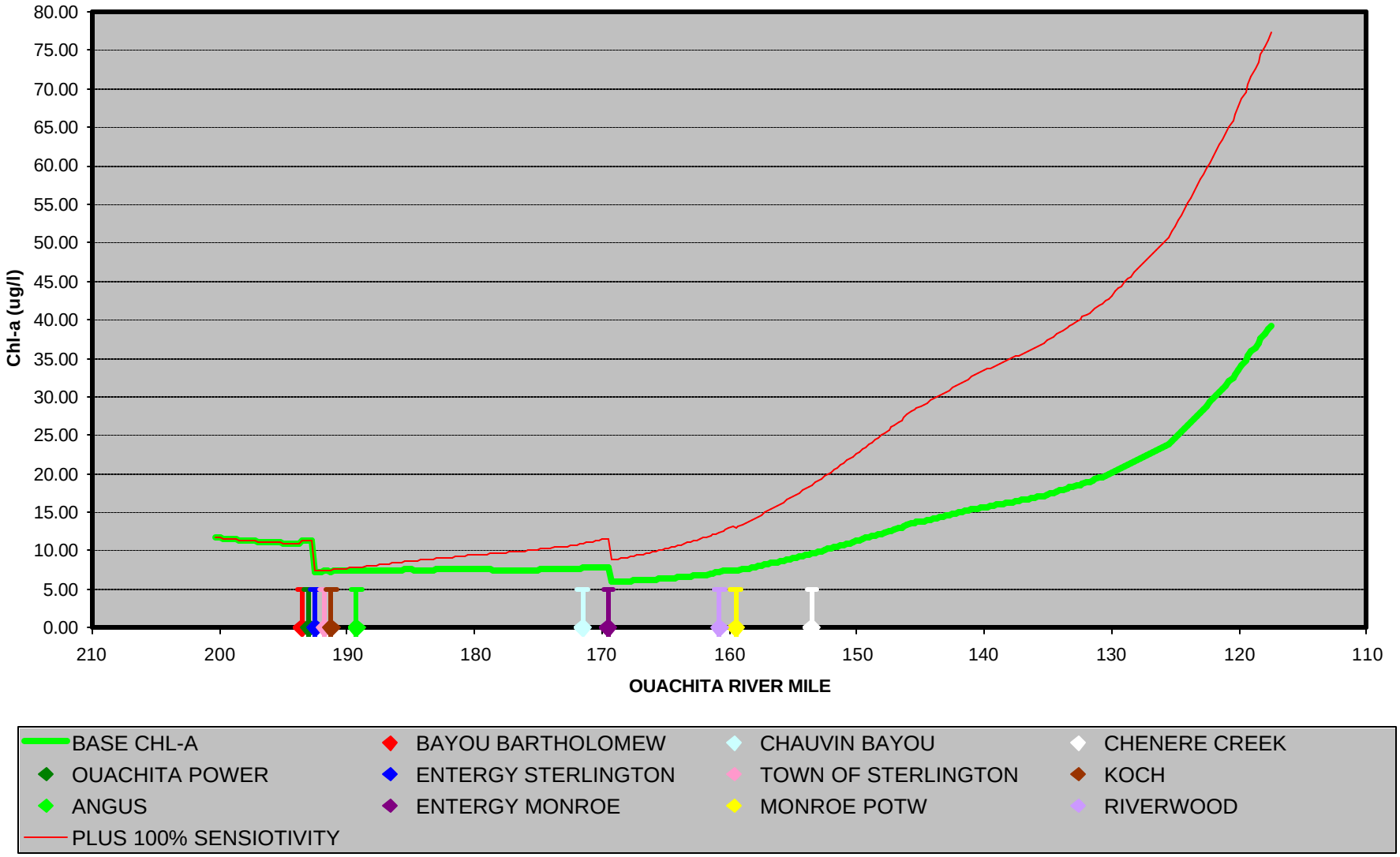
LOWER OUACHITA RIVER AUGUST PROJECTION SENSITIVITY FOR POINT SOURCE NUTRIENTS - PLUS 100% PERTURBATION - TOTAL PHOSPHORUS CHART



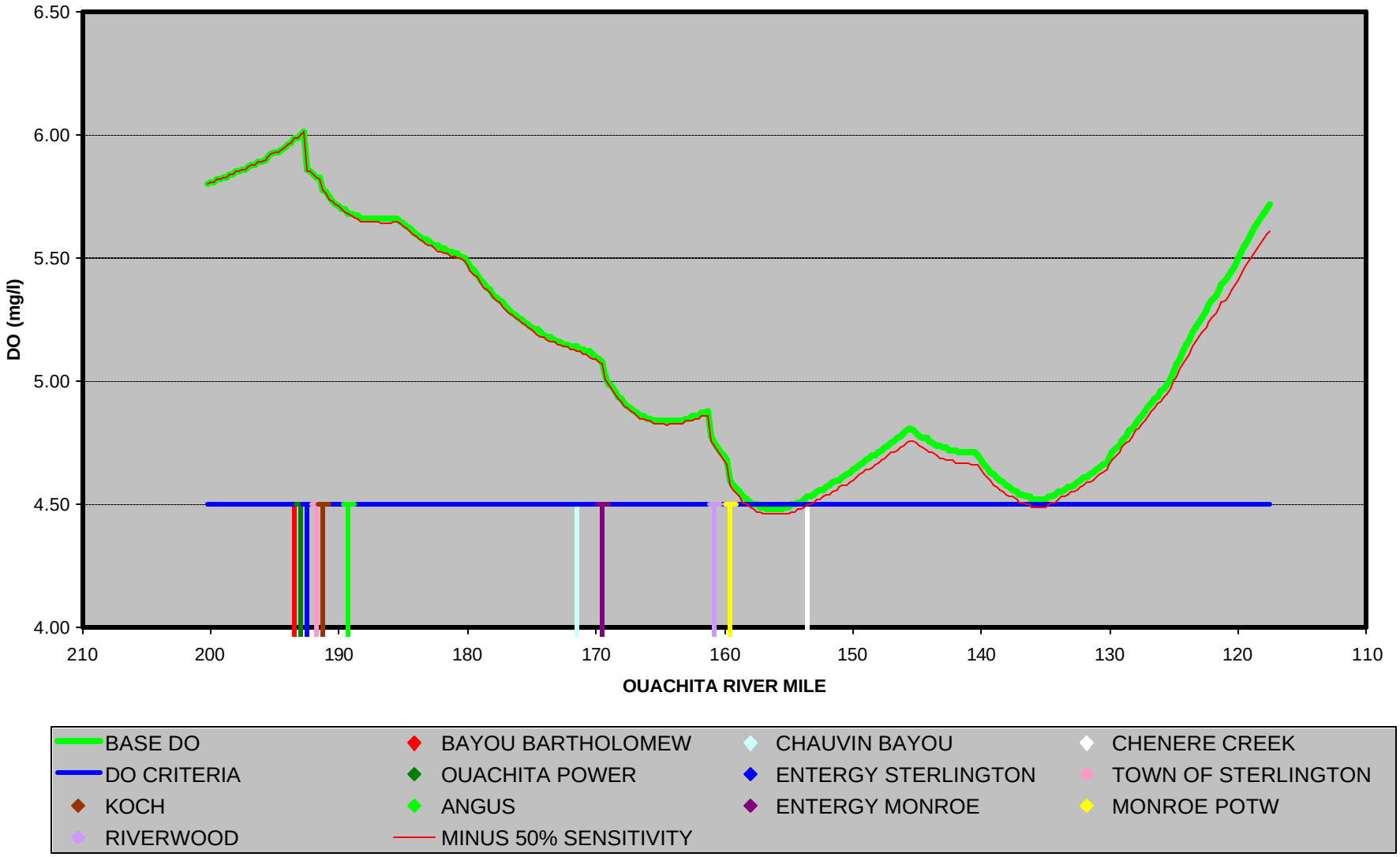
LOWER OUACHITA RIVER AUGUST PROJECTION SENSITIVITY FOR POINT SOURCE NUTRIENTS - PLUS 100% PERTURBATION - NITROGEN TO PHOSPHORUS RATIO CHART



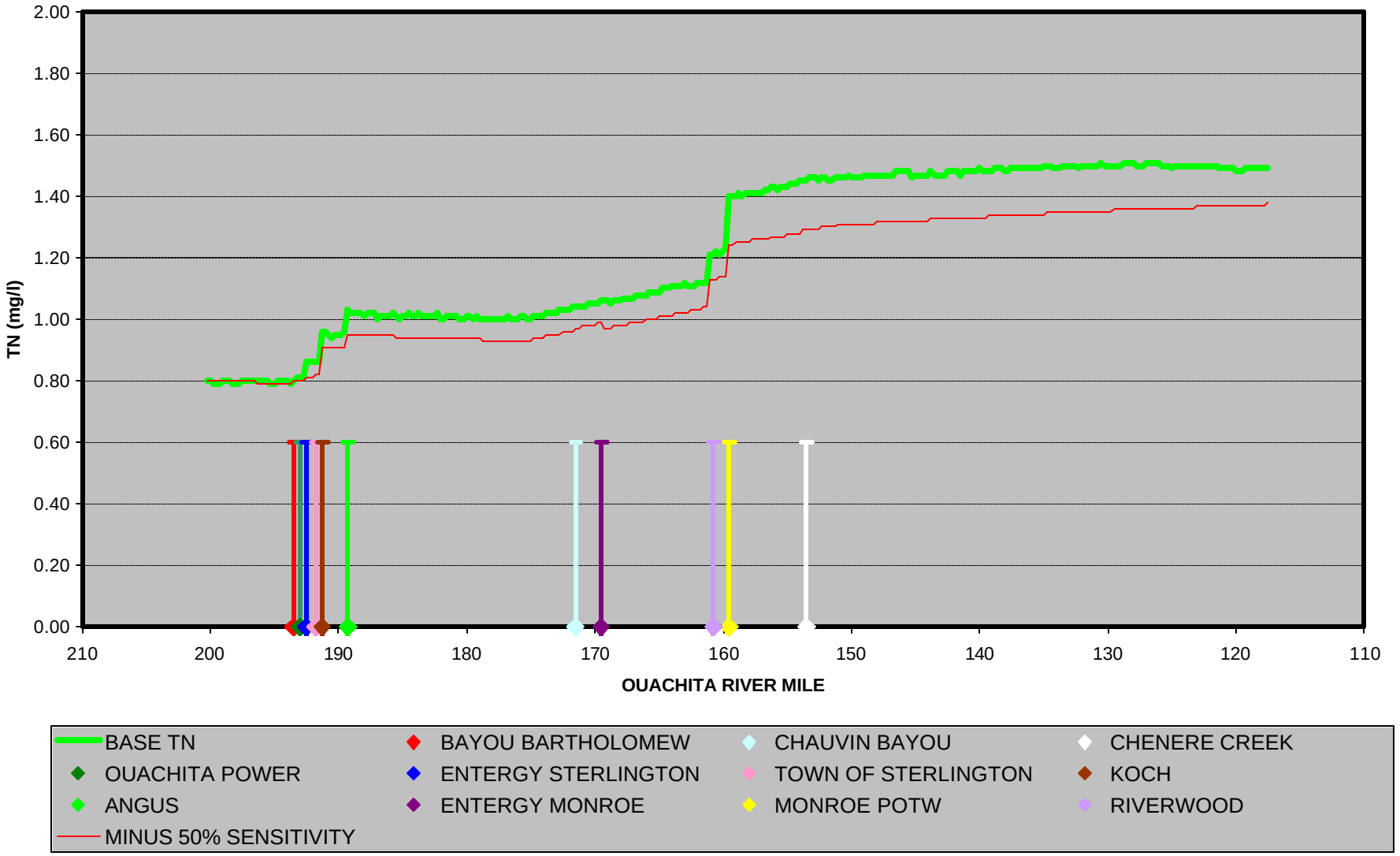
LOWER OUACHITA RIVER AUGUST PROJECTION SENSITIVITY FOR POINT SOURCE NUTRIENT - PLUS 100% PERTURBATION - CHLOROPHYLL A CHART



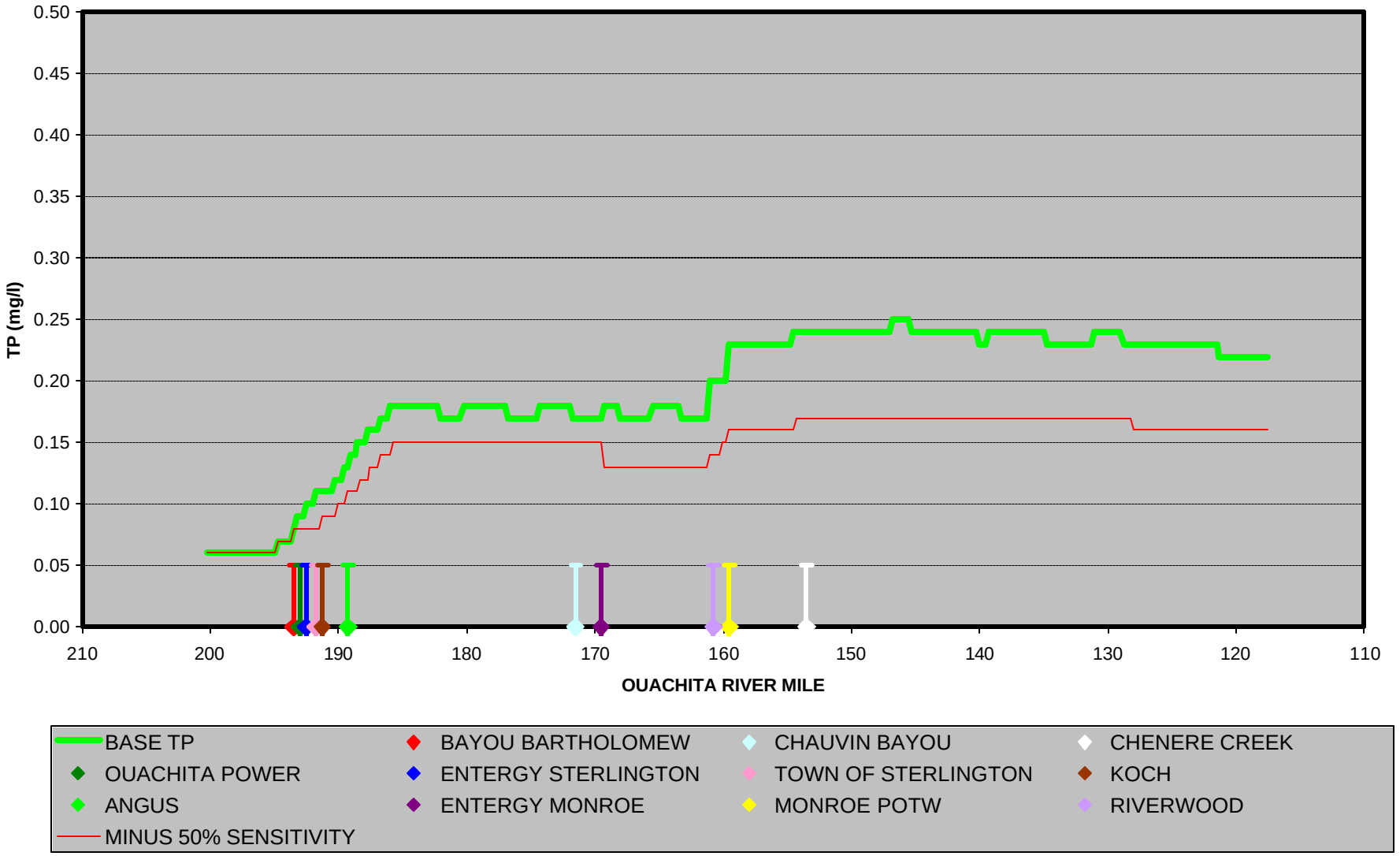
LOWER OUACHITA RIVER AUGUST PROJECTION SENSITIVITY FOR POINT SOURCE NUTRIENTS - MINUS 50% PERTURBATION - DISSOLVED OXYGEN CHART



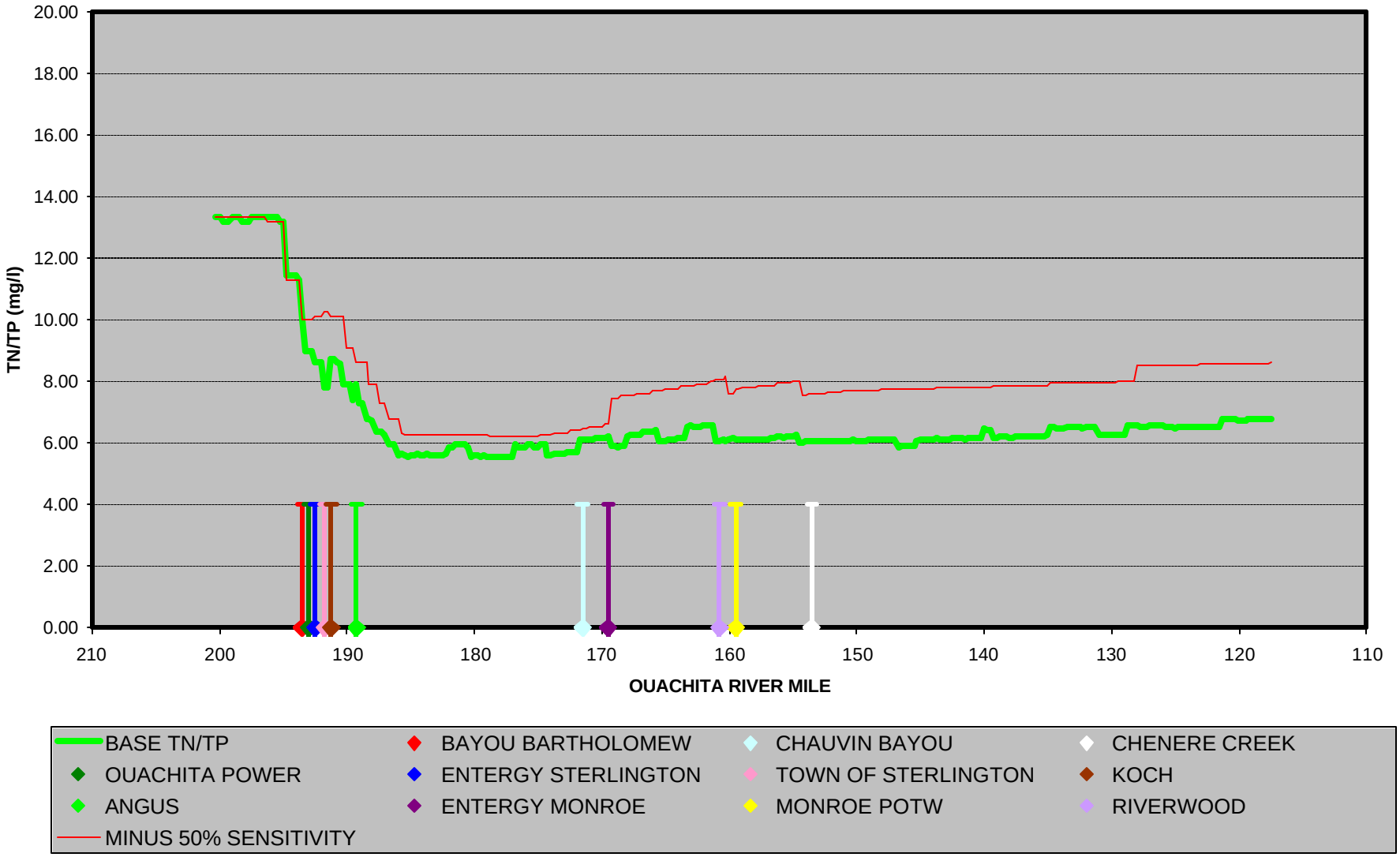
LOWER OUACHITA RIVER AUGUST PROJECTION SENSITIVITY FOR POINT SOURCE NUTRIENTS - MINUS 50% PERTURBATION - TOTAL NITROGEN CHART



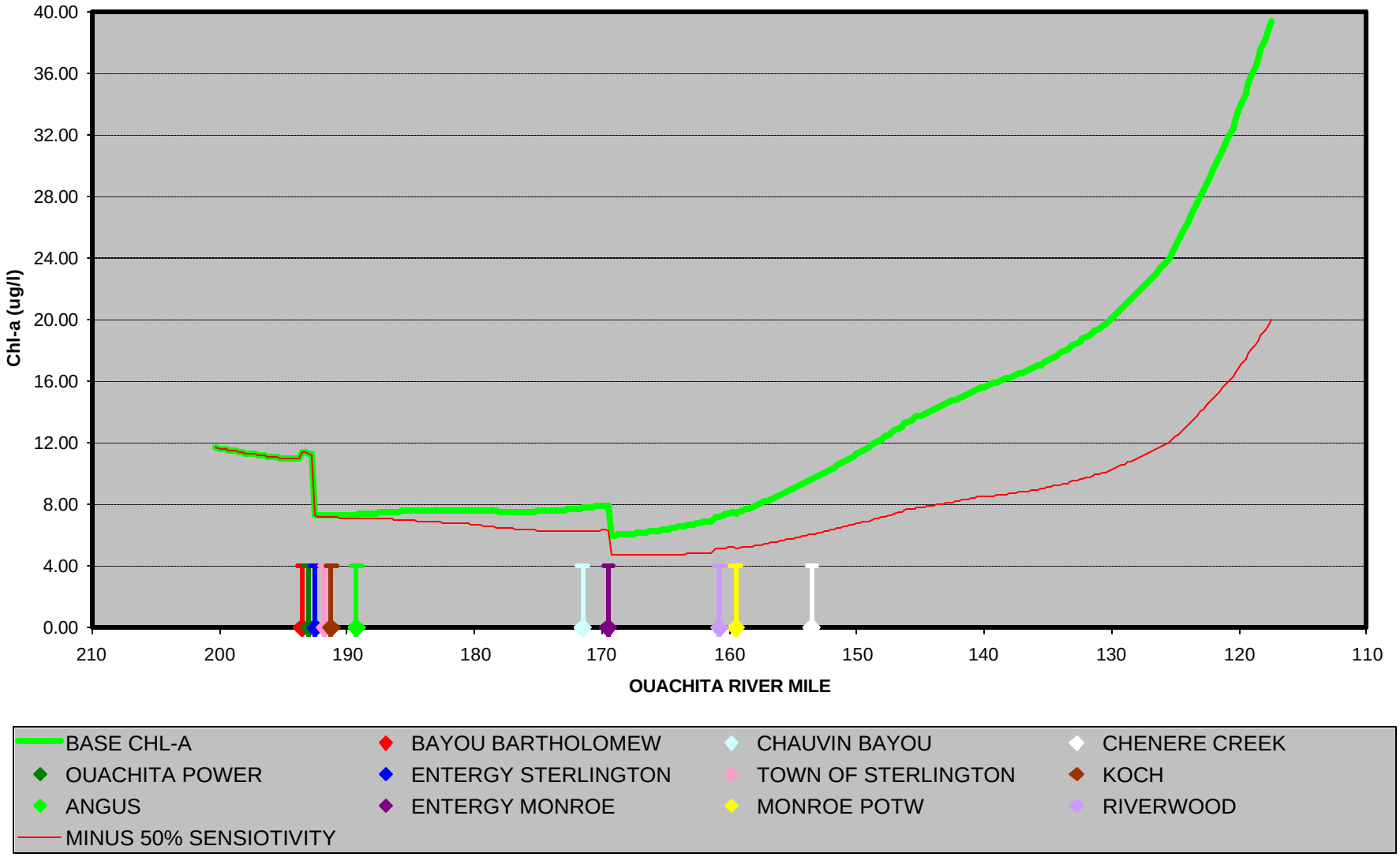
LOWER OUACHITA RIVER AUGUST PROJECTION SENSITIVITY FOR POINT SOURCE NUTRIENTS - MINUS 50% PERTURBATION - TOTAL PHOSPHORUS CHART



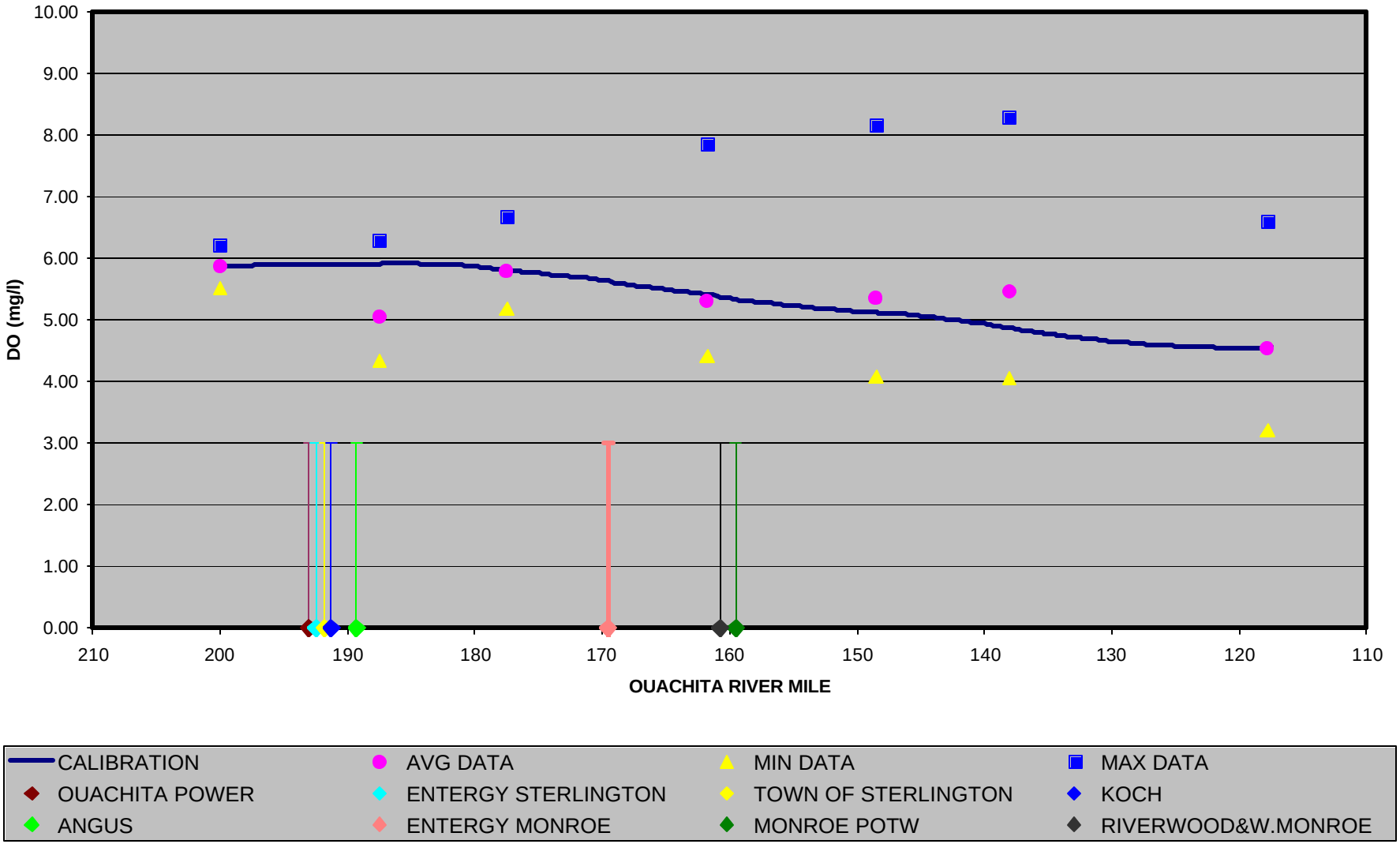
LOWER OUACHITA RIVER AUGUST PROJECTION SENSITIVITY FOR POINT SOURCE NUTRIENTS - MINUS 50% PERTURBATION - NITROGEN TO PHOSPHORUS RATIO CHART



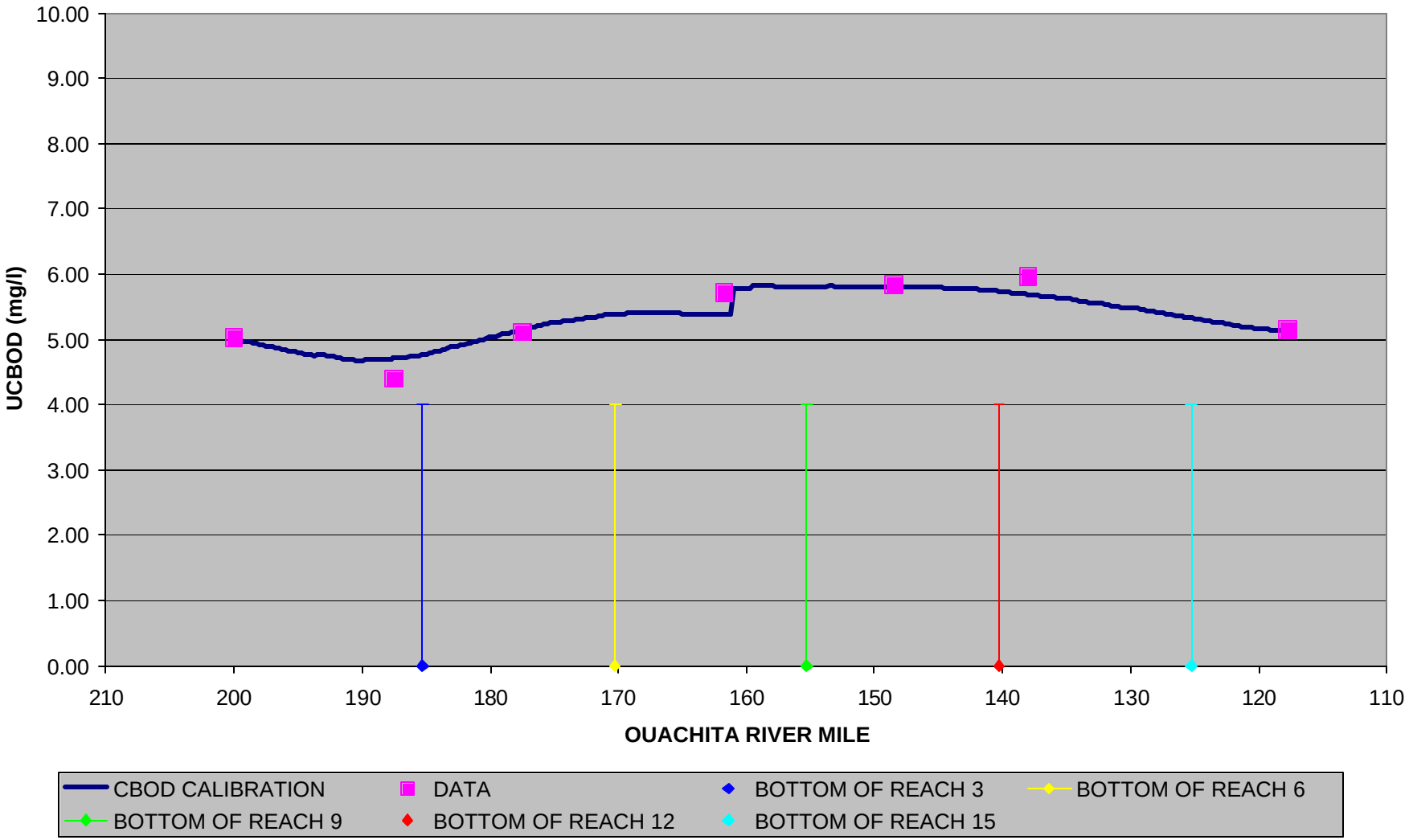
LOWER OUACHITA RIVER AUGUST PROJECTION SENSITIVITY FOR POINT SOURCE NUTRIENT - MINUS 50% PERTURBATION - CHLOROPHYLL A CHART



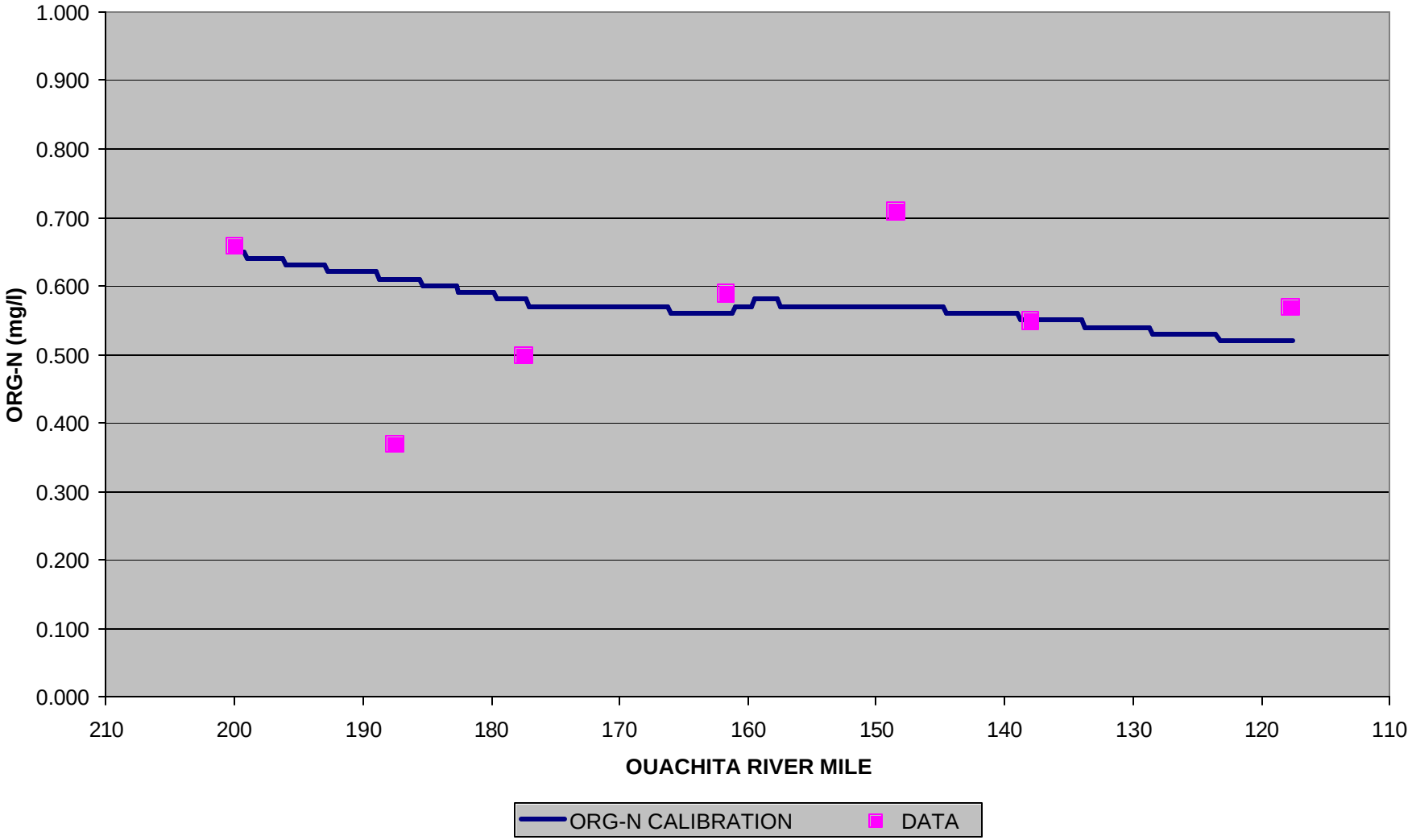
LOWER OUACHITA RIVER DO CALIBRATION WITHOUT NUTRIENT-ALGAE CYCLE



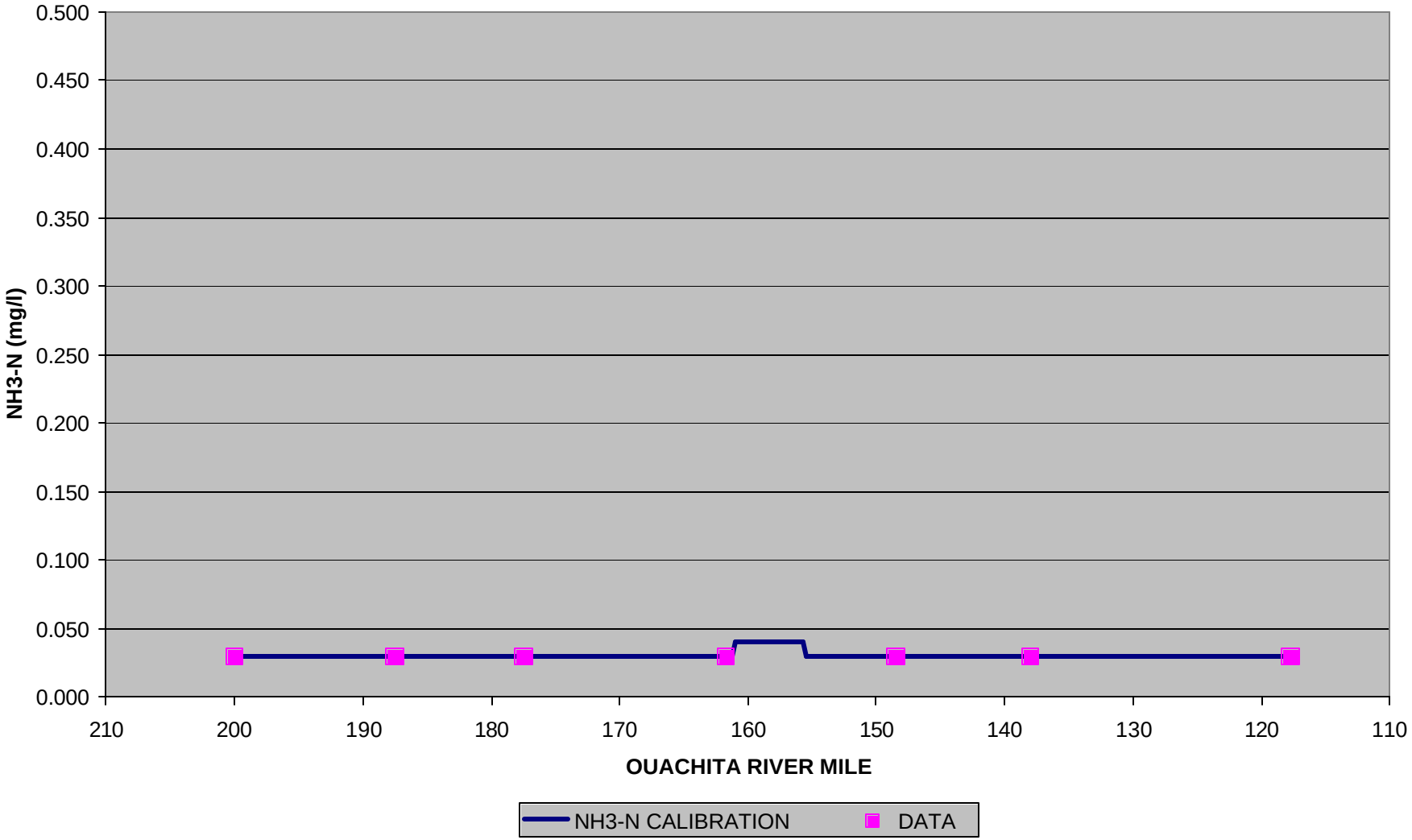
LOWER OUACHITA RIVER CBOD CALIBRATION WITHOUT NUTRIENT-ALGAE CYCLE



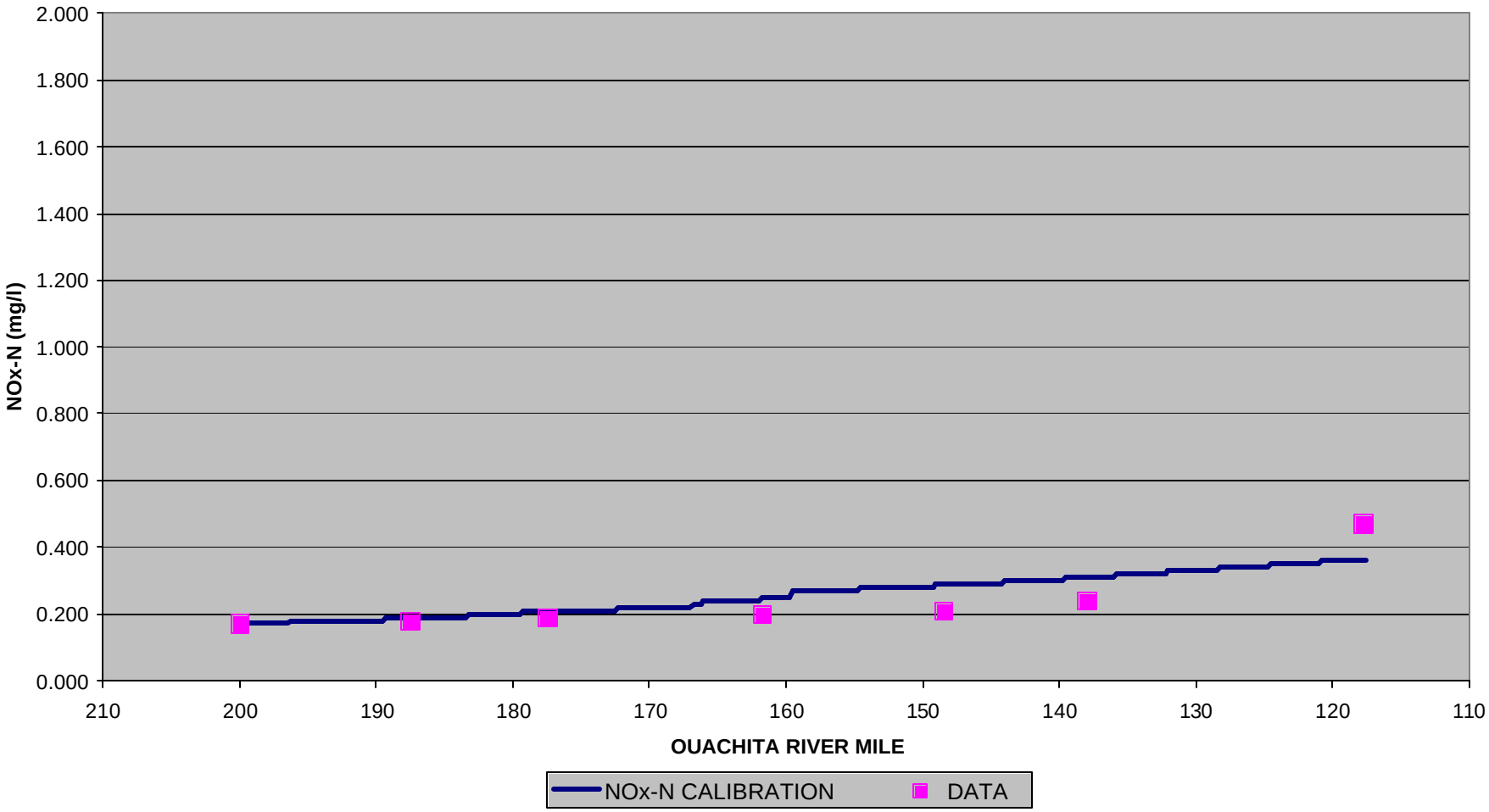
LOWER OUACHITA RIVER ORGANIC NITROGEN CALIBRATION WITHOUT NUTRIENT-ALGAE CYCLE



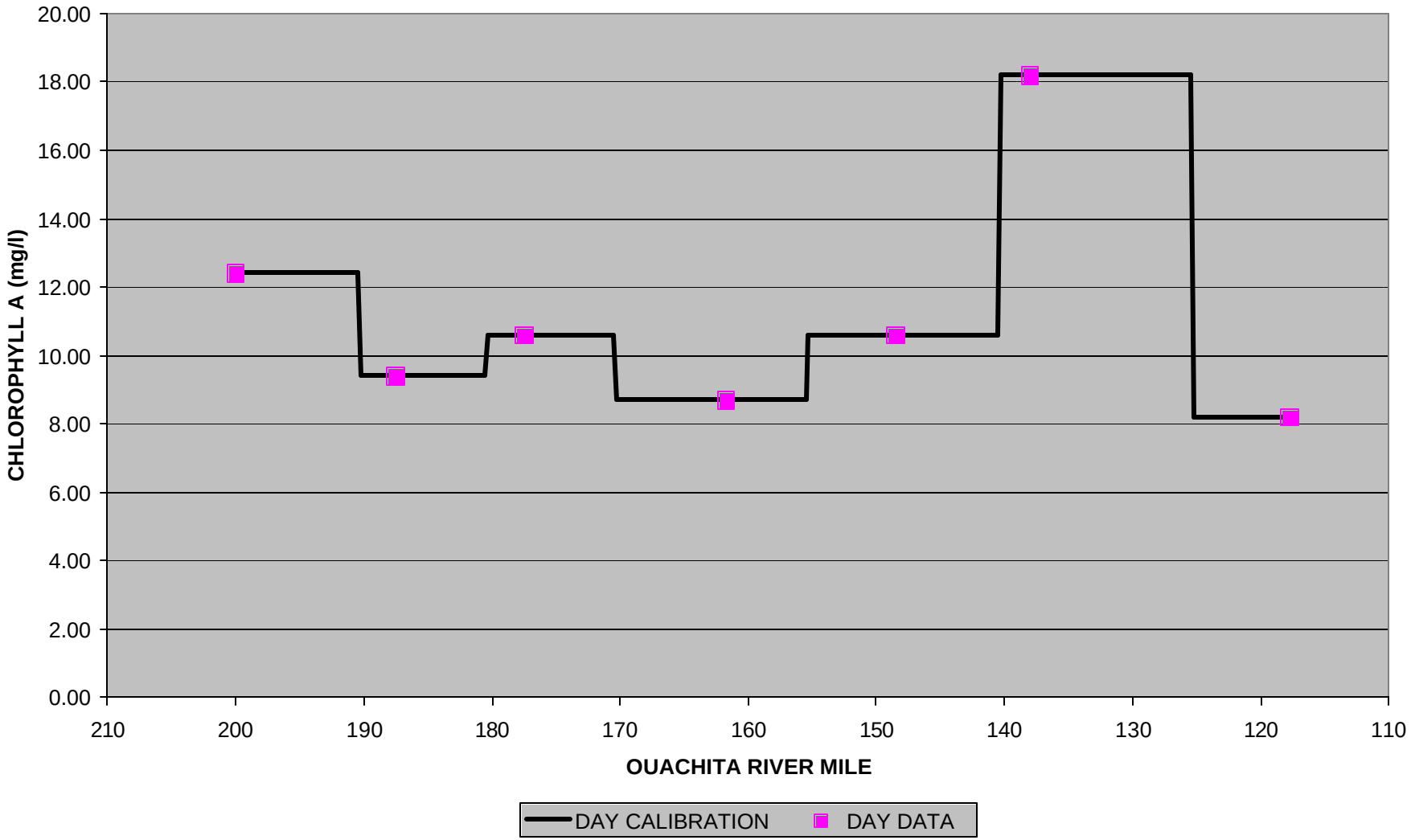
LOWER OUACHITA RIVER AMMONIA NITROGEN CALIBRATION WITHOUT NUTRIENT-ALGAE CYCLE



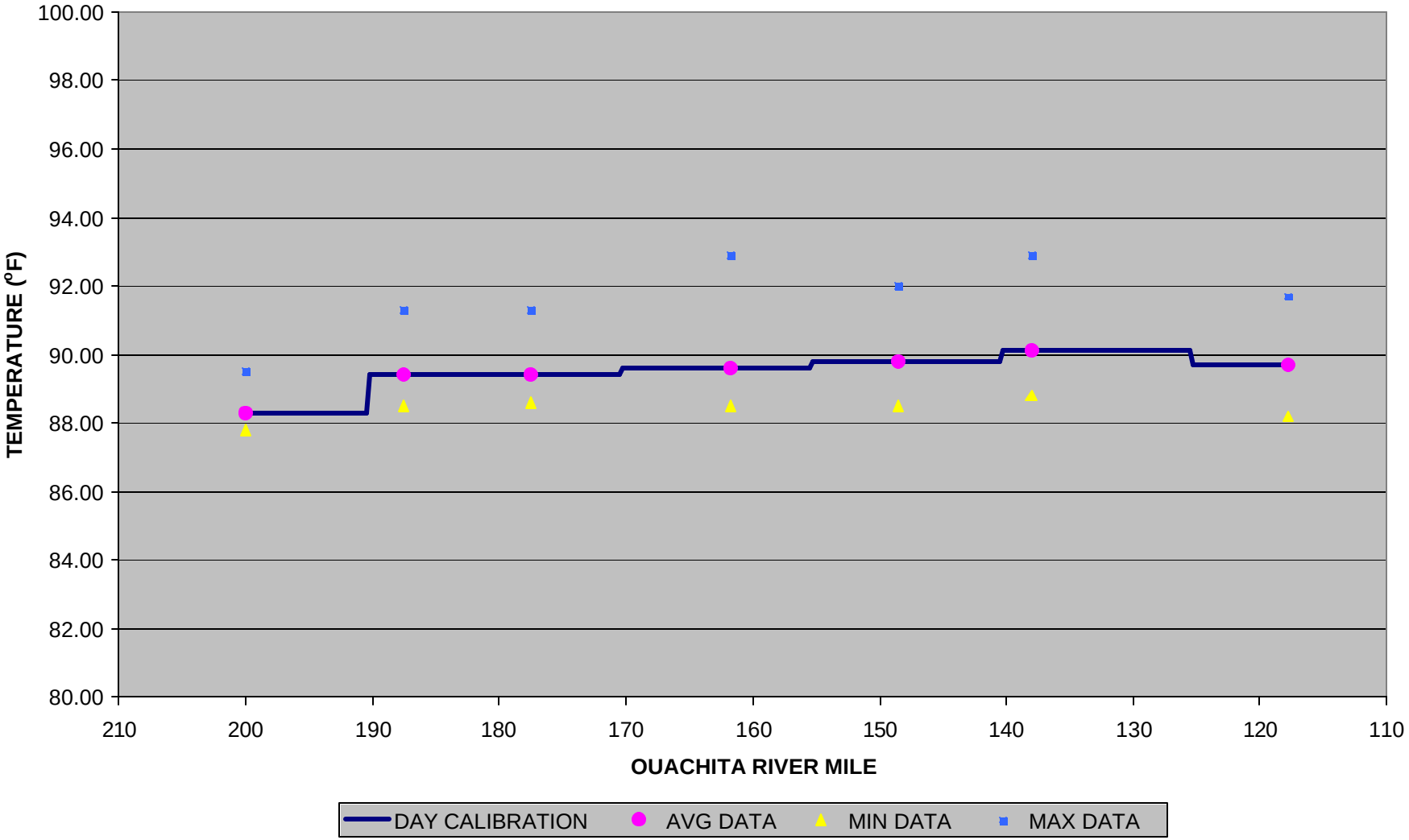
LOWER OUACHITA RIVER NO_2 + NO_3 NITROGEN CALIBRATION WITHOUT NUTRIENT-ALGAE CYCLE



LOWER OUACHITA RIVER CHLOROPHYLL-A CALIBRATION WITHOUT NUTRIENT-ALGAE CYCLE



LOWER OUACHITA RIVER TEMPERATURE CALIBRATION WITHOUT NUTRIENT-ALGAE CYCLE



LOWER OUACHITA RIVER AUGUST PROJECTION AND TMDL WORKSHEET - WITHOUT REDUCTION AND WITHOUT NUTRIENT-ALGAE SIMULATION: BENTHIC SOURCES

Input to blue shaded areas

Reach No.	Reach Length (mi)	Calibration Benthic Source Rates					MOS & Reduction		Projection Input Source Rates		
		NH_3-N (mg/ft^2-d)	Theta for NH3 Decay	Dis P (mg/ft2-d)	SOD (gm/ft2-d)	Theta for SOD Decay	MOS (%)	Reduction (%)	NH_3-N (gm/ft^2-d)	Dis P (mg/ft2-d)	SOD (mg/ft2-d)
1	5.00	0.00	1.070	0.00	0.000	1.065	10	0	0.00	0.00	0.0000
2	5.00	0.00	1.070	0.00	0.002	1.065	10	0	0.00	0.00	0.0022
3	5.00	0.00	1.070	0.00	0.002	1.065	10	0	0.00	0.00	0.0022
4	5.00	0.00	1.070	0.00	0.002	1.065	10	0	0.00	0.00	0.0022
5	5.00	0.00	1.070	0.00	0.002	1.065	10	0	0.00	0.00	0.0022
6	5.00	0.00	1.070	0.00	0.002	1.065	10	0	0.00	0.00	0.0022
7	5.00	0.00	1.070	0.00	0.012	1.065	10	0	0.00	0.00	0.0133
8	5.00	0.00	1.070	0.00	0.012	1.065	10	0	0.00	0.00	0.0133
9	5.00	0.00	1.070	0.00	0.012	1.065	10	0	0.00	0.00	0.0133
10	5.00	0.00	1.070	0.00	0.012	1.065	10	0	0.00	0.00	0.0133
11	5.00	0.00	1.070	0.00	0.012	1.065	10	0	0.00	0.00	0.0133
12	5.00	0.00	1.070	0.00	0.012	1.065	10	0	0.00	0.00	0.0133
13	5.00	0.00	1.070	0.00	0.012	1.065	10	0	0.00	0.00	0.0133
14	5.00	0.00	1.070	0.00	0.012	1.065	10	0	0.00	0.00	0.0133
15	5.00	0.00	1.070	0.00	0.012	1.065	10	0	0.00	0.00	0.0133
16	5.00	0.00	1.070	0.00	0.012	1.065	10	0	0.00	0.00	0.0133
17	3.00	0.00	1.070	0.00	0.012	1.065	10	0	0.00	0.00	0.0133

LOWER OUACHITA RIVER AUGUST PROJECTION AND TMDL WORKSHEET - WITHOUT REDUCTION AND WITHOUT NUTRIENT-ALGAE SIMULATION: BENTHIC SOURCES

Input to blue shaded areas

Reach No.	Projection Stream Temp (^{o}F)	Projection Stream Width (ft)	**Projection Oxygen Demanding Load Allocation**		**Projection MOS**	
			NH_3-N (lb O_2/d)	**SOD (lb O_2/d)**	**NH_3-N (lb O_2/d)**	**SOD (lb O_2/d)**
1	83.2	404	0.0	0.0	0.0	0.0
2	83.2	405	0.0	0.1	0.0	0.0
3	83.2	400	0.0	0.1	0.0	0.0
4	83.2	445	0.0	0.1	0.0	0.0
5	83.2	464	0.0	0.1	0.0	0.0
6	83.2	507	0.0	0.1	0.0	0.0
7	83.2	549	0.0	0.6	0.0	0.1
8	83.2	591	0.0	0.6	0.0	0.1
9	83.2	556	0.0	0.6	0.0	0.1
10	83.2	523	0.0	0.6	0.0	0.1
11	83.2	490	0.0	0.5	0.0	0.1
12	83.2	468	0.0	0.5	0.0	0.1
13	83.2	445	0.0	0.5	0.0	0.1
14	83.2	497	0.0	0.5	0.0	0.1
15	83.2	548	0.0	0.6	0.0	0.1
16	83.2	601	0.0	0.6	0.0	0.1
17	83.2	647	0.0	0.4	0.0	0.0
		Total	0.0	6.4	0.0	0.7

LOWER OUACHITA RIVER AUGUST PROJECTION AND TMDL WORKSHEET - WITHOUT REDUCTION AND WITHOUT NUTRIENT-ALGAE SIMULATION: HEADWATER AND TRIBUTARIES

Input to blue shaded areas

	Calibration Concentrations							MOS & Reduction		Projection Input Concentrations			
Name	Chl-a (ug/l)	UCBOD (mg/l)	Org-N (mg/l)	NH_3-N (mg/l)	NOx-N (mg/l)	Org-P (mg/l)	Dis-P (mg/l)	MOS (%)	Reduction (%)	Chl-a (ug/l)	UCBOD (mg/l)	Org-N (mg/l)	NH_3-N (mg/l)
Ouachita headwater	12.4	5.0	0.66	0.02	0.17	0.04	0.02	0	0				
Bayou Bartholomew	15.7	7.3	0.63	0.02	0.09	0.19	0.03	0	0				
Bayou Chauvin	26.4	20.7	1.69	1.12	0.22	0.37	0.57	0	0				
Chenere Creek	12.0	10.9	0.73	0.02	0.03	0.05	0.01	0	0				
	Projection concentrations w/o MOS or Reduction												
Ouachita headwater	12.4	5.0	0.65	0.03	0.17	0.04	0.02	10	0	13.8	5.6	0.72	0.03
Bayou Bartholomew	15.7	7.3	0.63	0.02	0.22	0.19	0.03	10	0	17.4	8.1	0.70	0.02
Bayou de Loutre	12.0	5.0	0.73	0.02	0.09	0.07	0.01	10	0	13.3	5.6	0.81	0.02
Bayou d'Arbonne	12.0	5.0	0.64	0.02	0.08	0.05	0.01	10	0	13.3	5.6	0.71	0.02
Bayou Chauvin	26.4	20.7	1.69	1.12	0.22	0.37	0.57	10	0	29.3	23.0	1.88	1.24
Chenere Creek	12.0	10.9	0.73	0.02	0.03	0.05	0.01	10	0	13.3	12.1	0.81	0.02

LOWER OUACHITA RIVER AUGUST PROJECTION AND TMDL WORKSHEET - WITHOUT REDUCTION AND WITHOUT NUTRIENT-ALGAE SIMULATION: HEADWATER AND

Input to blue shaded areas

Name	Projection Input Concentrations			Projection Critical Flow (cfs)	Projection Oxygen Demanding Load Allocations			Projection MOS		
	NOx-N (mg/l)	Org-P (mg/l)	Dis-P (mg/l)		**UCBOD (lb O_2/d)**	**Org-N (lb O_2/d)**	**NH_3-N (lb O_2/d)**	**UCBOD (lb O_2/d)**	**Org-N (lb O_2/d)**	**NH_3-N (lb O_2/d)**
Ouachita headwater										
Bayou Bartholomew										
Bayou Chauvin										
Chenere Creek										
Ouachita headwater	0.19	0.04	0.02	894.0	24083	14308	660	2676	1590	73.4
Bayou Bartholomew	0.24	0.21	0.03	74.0	2910	1148	36	323	128	4.0
Bayou de Loutre	0.10	0.08	0.01	3.9	105	70	2	12	8	0.2
Bayou d'Arbonne	0.09	0.06	0.01	0.1	3	2	0	0	0	0.0
Bayou Chauvin	0.24	0.41	0.63	2.4	268	100	66	30	11	7.4
Chenere Creek	0.03	0.06	0.01	0.5	29	9	0	3	1	0.0
				Total	27397.93	15635.94	765.1874	3044.214	1737.327	85.02083

LOWER OUACHITA RIVER AUGUST PROJECTION AND TMDL WORKSHEET - WITHOUT REDUCTION AND WITHOUT NUTRIENT-ALGAE SIMULATION: INCREMENTAL FLOW

Input to blue shaded areas

	Calibration Flows and Concentrations				Calibration Loads			Projection Flows and Equivalent Concentrations Prior to MOS and Reduction			
REACH	FLOW (cfs/reach)	UCBOD (mg/l)	ORG-N (mg/l)	ORG-P (mg/l)	UCBOD (lb/day)	ORG-N (lb/day)	ORG-P (lb/day)	FLOW (cfs/reach)	UCBOD (mg/l)	ORG-N (mg/l)	ORG-P (mg/l)
1	50.0	0.0	0.00	0.04	0.0	0.0	10.8	3.0	0.0	0.0	0.7
2	50.0	0.0	0.00	0.70	0.0	0.0	188.6	3.0	0.0	0.0	11.7
3	50.0	20.0	0.00	1.40	5387.6	0.0	377.1	3.0	333.3	0.0	23.3
4	50.0	40.0	0.00	0.00	10775.3	0.0	0.0	3.0	666.7	0.0	0.0
5	50.0	45.0	0.00	0.00	12122.2	0.0	0.0	3.0	750.0	0.0	0.0
6	50.0	40.0	1.40	0.00	10775.3	377.1	0.0	3.0	666.7	23.3	0.0
7	50.0	30.0	1.40	0.00	8081.5	377.1	0.0	3.0	500.0	23.3	0.0
8	50.0	30.0	1.40	0.00	8081.5	377.1	0.0	3.0	500.0	23.3	0.0
9	50.0	30.0	1.40	0.20	8081.5	377.1	53.9	3.0	500.0	23.3	3.3
10	50.0	30.0	1.40	0.30	8081.5	377.1	80.8	3.0	500.0	23.3	5.0
11	23.0	55.0	1.40	0.00	6815.4	173.5	0.0	3.0	421.7	10.7	0.0
12	23.0	55.0	1.40	0.00	6815.4	173.5	0.0	3.0	421.7	10.7	0.0
13	23.0	53.0	1.40	0.00	6567.5	173.5	0.0	3.0	406.3	10.7	0.0
14	23.0	48.0	1.40	0.00	5948.0	173.5	0.0	3.0	368.0	10.7	0.0
15	23.0	43.0	1.40	0.00	5328.4	173.5	0.0	3.0	329.7	10.7	0.0
16	23.0	38.0	1.40	0.00	4708.8	173.5	0.0	3.0	291.3	10.7	0.0
17	23.0	33.0	1.40	0.00	4089.2	173.5	0.0	3.0	253.0	10.7	0.0

LOWER OUACHITA RIVER AUGUST PROJECTION AND TMDL WORKSHEET - WITHOUT REDUCTION AND WITHOUT NUTRIENT-ALGAE SIMULATION: INCREMENTAL FLOW

Input to blue shaded areas

	MOS & Reduction		Projection Input Concentrations			**Projection Oxygen Demanding Load Allocation**			**Projection MOS**		
REACH	MOS (%)	Reduction (%)	UCBOD (mg/l)	ORG-N (mg/l)	ORG-P (mg/l)	**UCBOD (lb O_2/day)**	**ORG-N (lb O_2/day)**		**UCBOD (lb O_2/day)**	**ORG-N (lb O_2/day)**	
1	10	0	0.0	0.0	0.74	0.0	0.0		0.0	0.0	
2	10	0	0.0	0.0	12.96	0.0	0.0		0.0	0.0	
3	10	0	370.4	0.0	25.93	5387.6	0.0		598.6	0.0	
4	10	0	740.7	0.0	0.00	10775.3	0.0		1197.3	0.0	
5	10	0	833.3	0.0	0.00	12122.2	0.0		1346.9	0.0	
6	10	0	740.7	25.9	0.00	10775.3	1723.5		1197.3	191.5	
7	10	0	555.6	25.9	0.00	8081.5	1723.5		897.9	191.5	
8	10	0	555.6	25.9	0.00	8081.5	1723.5		897.9	191.5	
9	10	0	555.6	25.9	3.70	8081.5	1723.5		897.9	191.5	
10	10	0	555.6	25.9	5.56	8081.5	1723.5		897.9	191.5	
11	10	0	468.5	11.9	0.00	6815.4	792.8		757.3	88.1	
12	10	0	468.5	11.9	0.00	6815.4	792.8		757.3	88.1	
13	10	0	451.5	11.9	0.00	6567.5	792.8		729.7	88.1	
14	10	0	408.9	11.9	0.00	5948.0	792.8		660.9	88.1	
15	10	0	366.3	11.9	0.00	5328.4	792.8		592.0	88.1	
16	10	0	323.7	11.9	0.00	4708.8	792.8		523.2	88.1	
17	10	0	281.1	11.9	0.00	4089.2	792.8		454.4	88.1	
					Total	111658.8	14167.2		12406.5	1574.1	

LOWER OUACHITA RIVER AUGUST PROJECTION AND TMDL WORKSHEET - WITHOUT REDUCTION AND WITHOUT NUTRIENT-ALGAE SIMULATION: POINT SOURCES

Input to blue shaded areas | Input to blue shaded areas | Permit limitations

Name	Ouachita 7Q10 (cfs)	Calibration Data (Ouachita River WQ at intake for power plants)							Projection Concentrations							
		Chl-a (ug/l)	UCBOD (mg/l)	Org-N (mg/l)	NH_3-N (mg/l)	NOx-N (mg/l)	Org-P (mg/l)	DIS-P (mg/l)	Chl-a (ug/l)	$CBOD_5$ (mg/l)	UCBOD (mg/l)	Org-N (mg/l)	NH_3-N (mg/l)	NO_3-N (mg/l)	Org-P (mg/l)	Dis-P (mg/l)
Ouachita Power intake																
Ouachita Power 001&002		0	4.9	0.6	0.02	0.2	0.06	0.02	0	1.8	4.0	0.50	0.02	0.15	0.03	0.02
Entergy Sterlington 001&002		0	4.9		0.02	0.2	0.06	0.02	0	1.8	4.0	0.50	0.02	0.15	0.03	0.02
Town of Sterlington POTW 001									100	30.0	69.0	10.00	5.00	0.70	2.50	1.00
Koch Nitrogen 001		0	10.7	0.76	0.4	0.58	0.24	0.15	0	4.7	10.7	0.76	16.50	0.58	0.24	0.15
Angus Chemical 002		0	0.0	8.32	0.31	34.33	0.33	0.01	0	46.1	106.0	8.32	0.31	34.33	0.33	0.01
Entergy Monroe 001		0	5.1	0.57	0.02	0.22	0.06	0.02	0	1.8	4.0	0.50	0.02	0.26	0.07	0.03
Riverwood Industries 001*	802	12.2	86.4	2.98	1.5	0.12	0.69	0.7	12.2	37.6	86.4	2.98	1.50	0.12	0.69	0.70
City of Monroe POTW 001		0	24.3	1.83	0.34	6.36	0.95	0.29	0	10.0	23.0	0.67	1.33	6.36	0.95	0.29
	CBOD5 (lb O2/d)															
Riverwood 001 permit load	4532															
Riverwood 001 % reduction	0															
Riverwood 001 allocation	4532															

* Using the measured UCBOD as typical, the projection discharge flow (including a margin of safety and reduced by the Riverwood 001 % reduction), is calculated from the Ouachita river state line 7Q10 using the formula for the mass discharge limitation (lb/d BOD_5 = 5.95Q-240). The corresponding mass allocation is calculated is the bottom left corner of the chart.

LOWER OUACHITA RIVER AUGUST PROJECTION AND TMDL WORKSHEET - WITHOUT REDUCTION AND WITHOUT NUTRIENT-ALGAE SIMULATION: POINT SOURCES

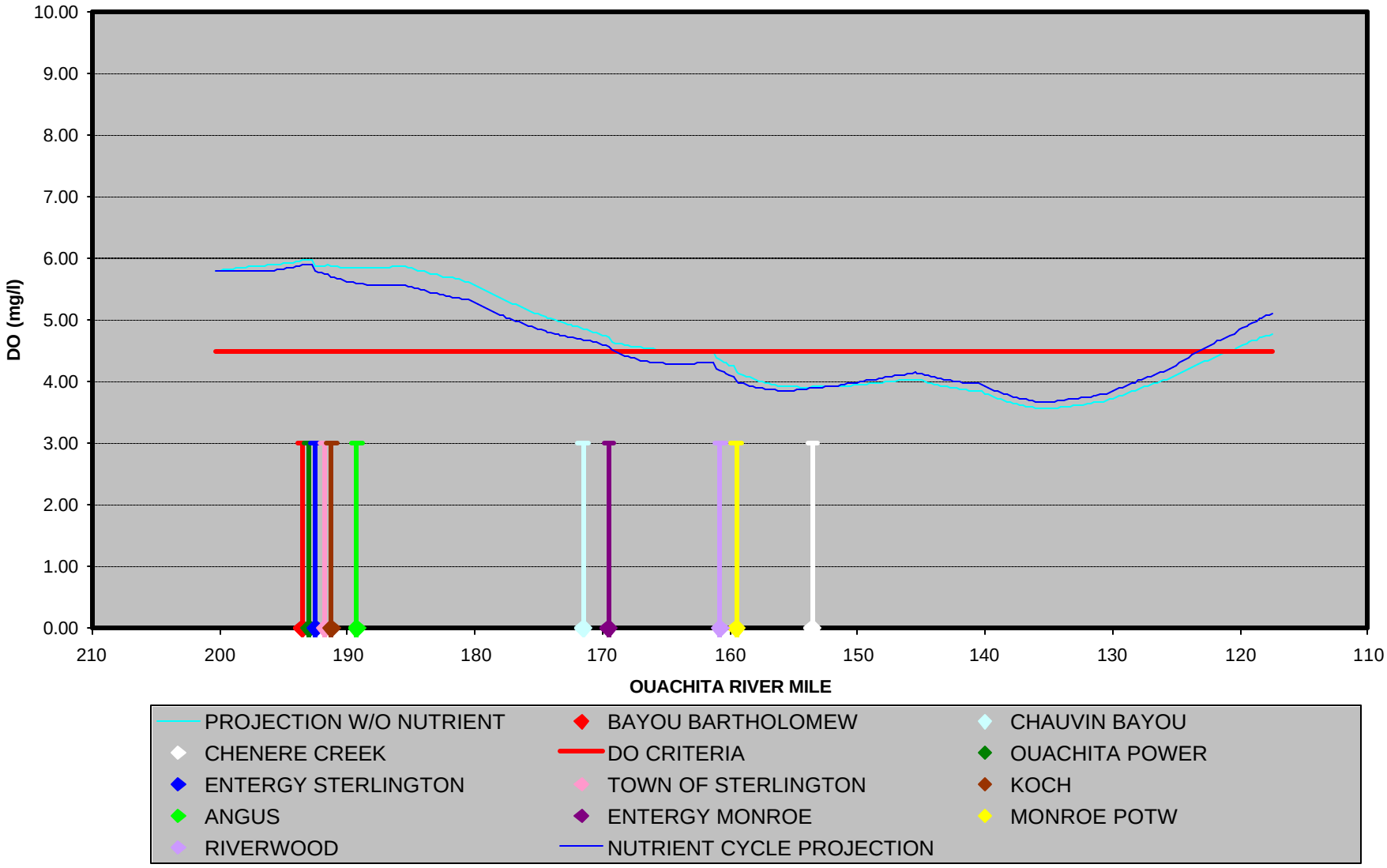
Input to blue shaded areas Input to blue shaded areas Permit limitations

Name	Ouachita 7Q10 (cfs)	Projection Flows				Projection Oxygen Demanding Waste Load Allocations			Projection MOS		
		Design Flows (mgd)	MOS (%)	Projection Flows (mgd)	Projection Flows (cfs)	UCBOD (lb O_2/d)	Org-N (lb O_2/d)	NH3-N (lb O_2/d)	UCBOD (lb O_2/d)	Org-N (lb O_2/d)	NH3-N (lb O_2/d)
Ouachita Power intake		5.49	20	6.87	10.62						
Ouachita Power 001&002		1.24	20	1.55	2.40	41.7	23.7	0.9	10.4	5.9	0.2
Entergy Sterlington 001&002		159.00	20	198.75	307.47	5337.4	3030.0	121.2	1334.3	757.5	30.3
Town of Sterlington POTW 001		0.15	20	0.19	0.29	86.3	57.2	28.6	21.6	14.3	7.1
Koch Nitrogen 001		2.49	20	3.11	4.82	222.1	72.1	1565.9	55.5	18.0	391.5
Angus Chemical 002		0.75	20	0.94	1.45	663.2	237.8	8.9	165.8	59.5	2.2
Entergy Monroe 001		116.00	20	145.00	224.32	3893.9	2210.6	88.4	973.5	552.7	22.1
Riverwood Industries 001*	802	29.50	20	18.07	27.96	10423.4	1642.2	826.6	2605.8	410.5	206.7
City of Monroe POTW 001		12.00	20	15.00	23.21	2301.8	306.4	608.3	575.5	76.6	152.1
	CBOD5 (lb O2/d)										
Riverwood 001 permit load	4532										
Riverwood 001 % reduction	0										
Riverwood 001 allocation	4532										
					Total	22969.9	7580.1	3248.8	5742.5	1895.0	812.2

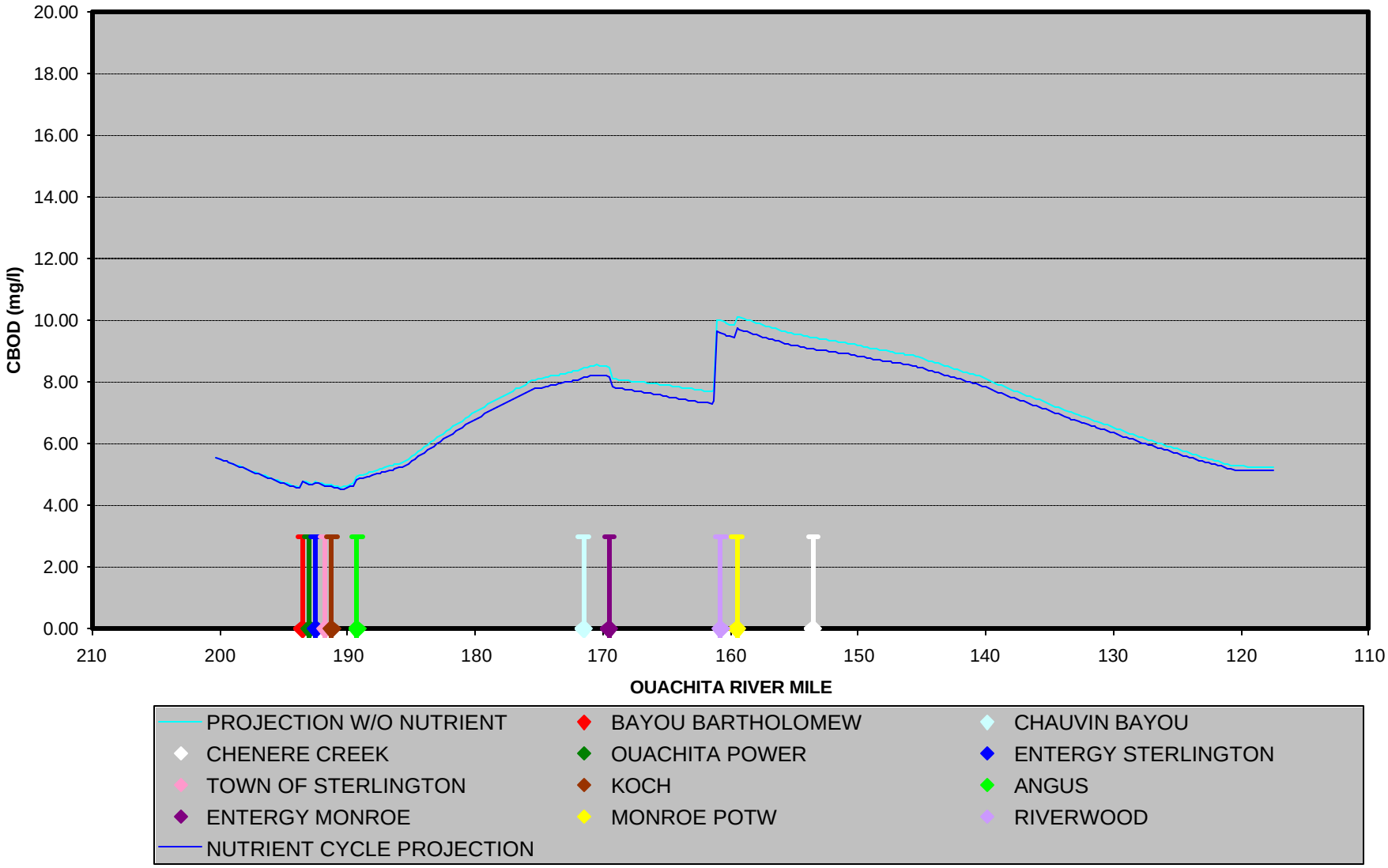
LOWER OUACHITA RIVER AUGUST PROJECTION AND TMDL WORKSHEET -
WITHOUT REDUCTION AND WITHOUT NUTRIENT-ALGAE SIMULATION: TMDL

PARAMETER	WLA (lb/day)	LA (lb/day)	MOS (lb/day)	TMDL (lb/day)
UCBOD	22969.9	139056.8	21193.2	183219.9
ORG-N	7580.1	29803.2	5206.5	42589.7
NH_3-N	3248.8	765.2	897.2	4911.2
SOD	--	6.4	0.7	7.2
TOTAL	33798.8	169631.6	27297.6	230728.0

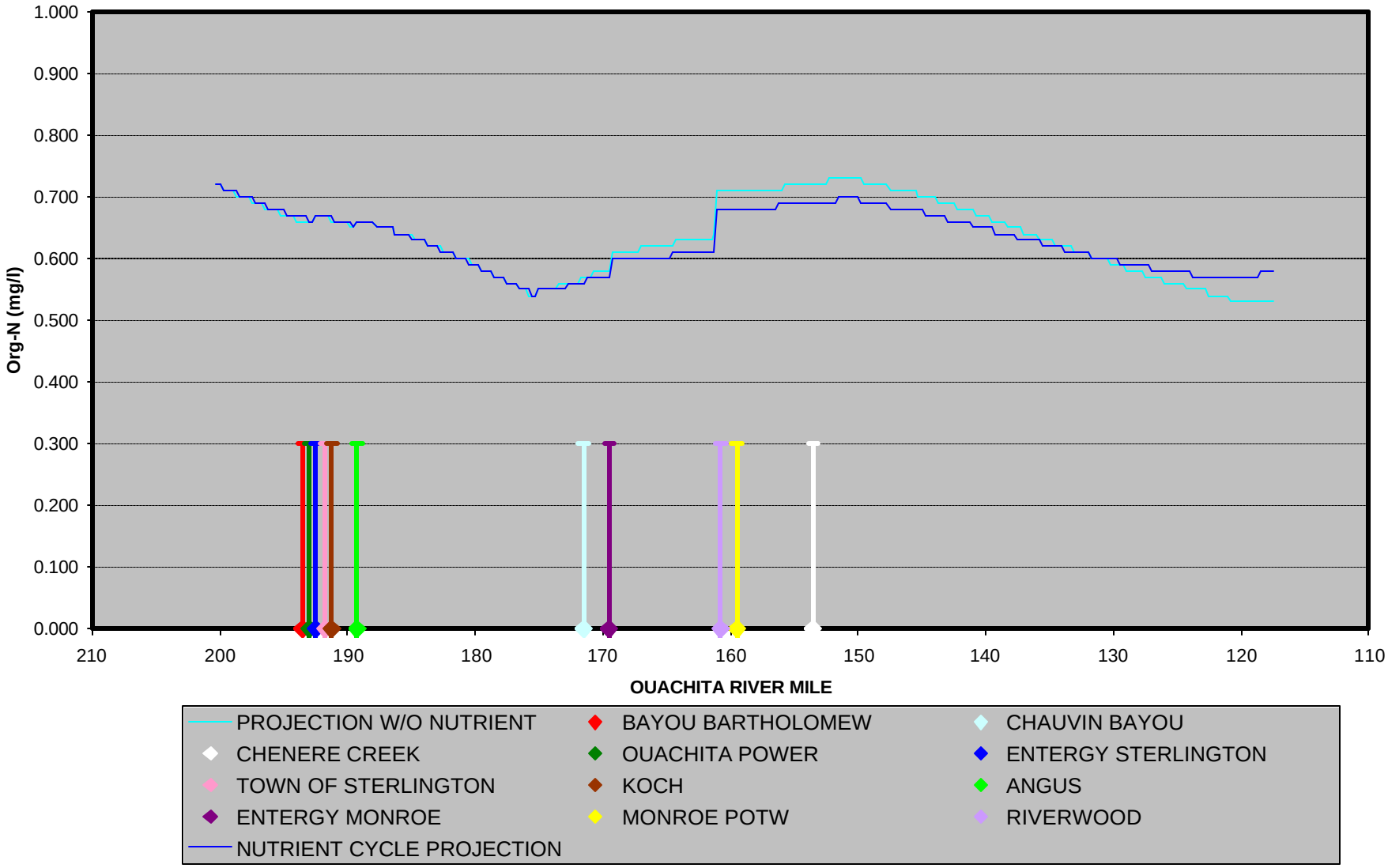
LOWER OUACHITA RIVER AUGUST DO PROJECTION W/O REDUCTION AND W/O NUTRIENT & ALGAE CYCLES



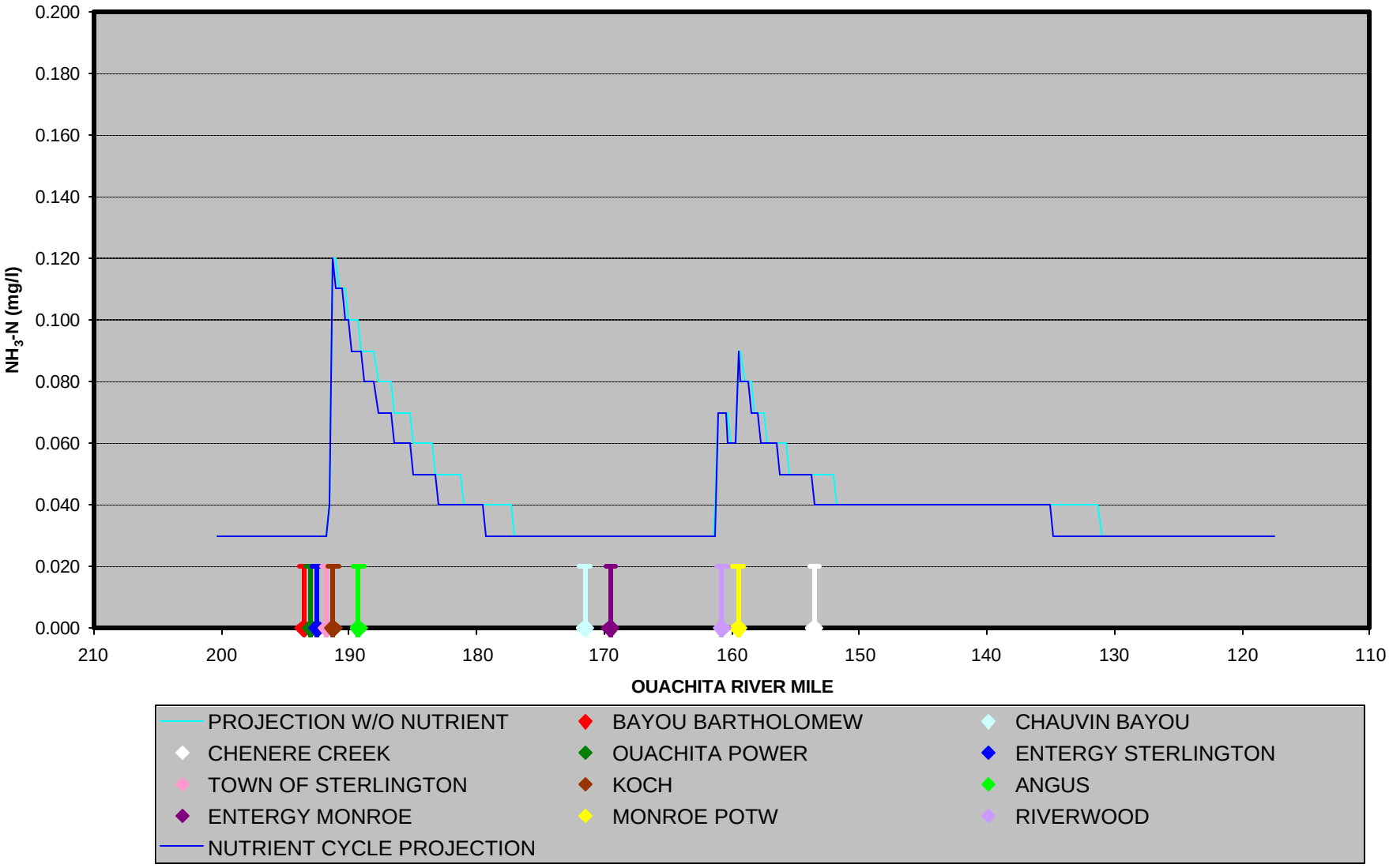
LOWER OUACHITA RIVER AUGUST CBOD PROJECTION W/O REDUCTION AND W/O NUTRIENT & ALGAE CYCLES



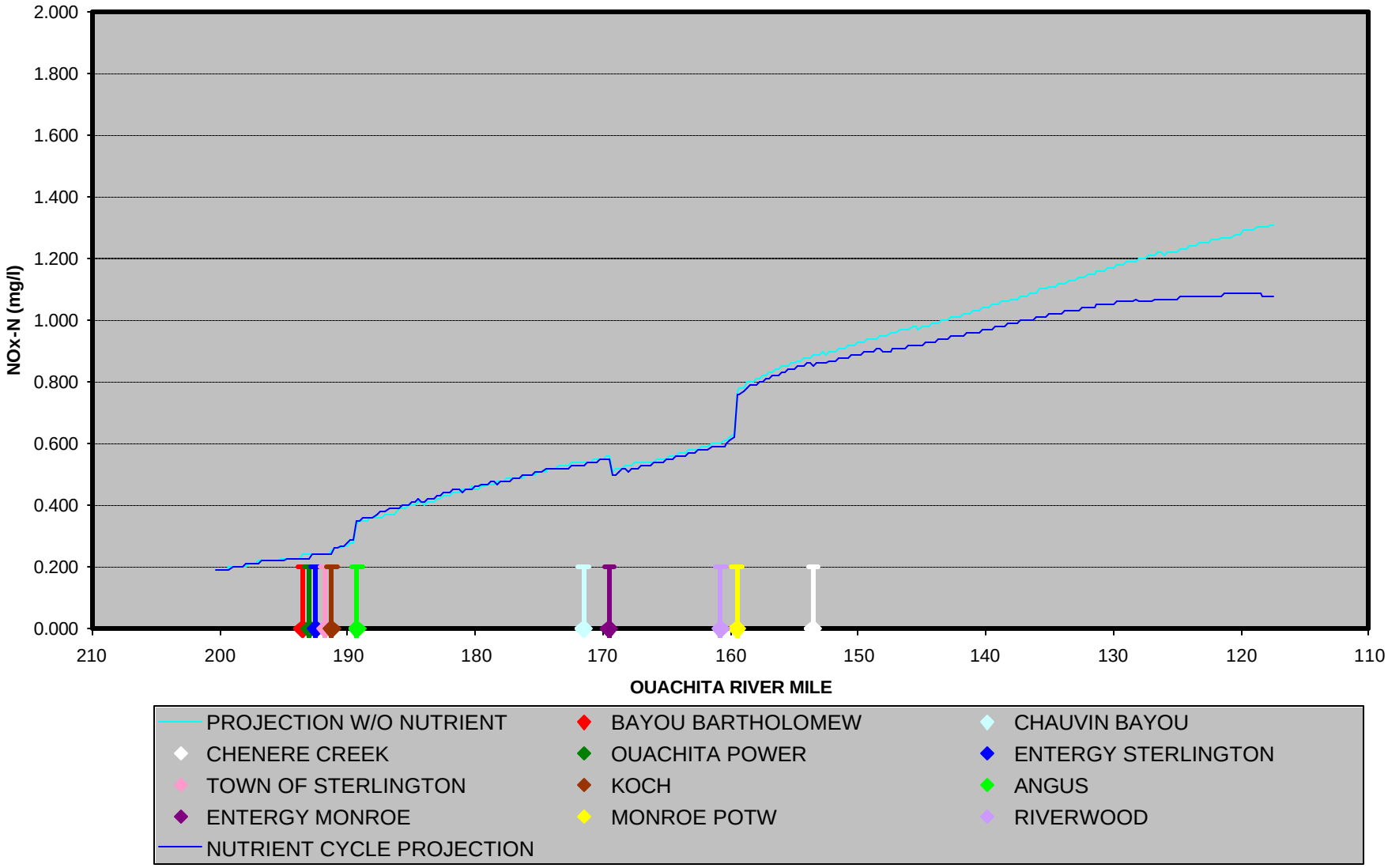
LOWER OUACHITA RIVER AUGUST ORG-N PROJECTION W/O REDUCTION AND W/O NUTRIENT & ALGAE CYCLES



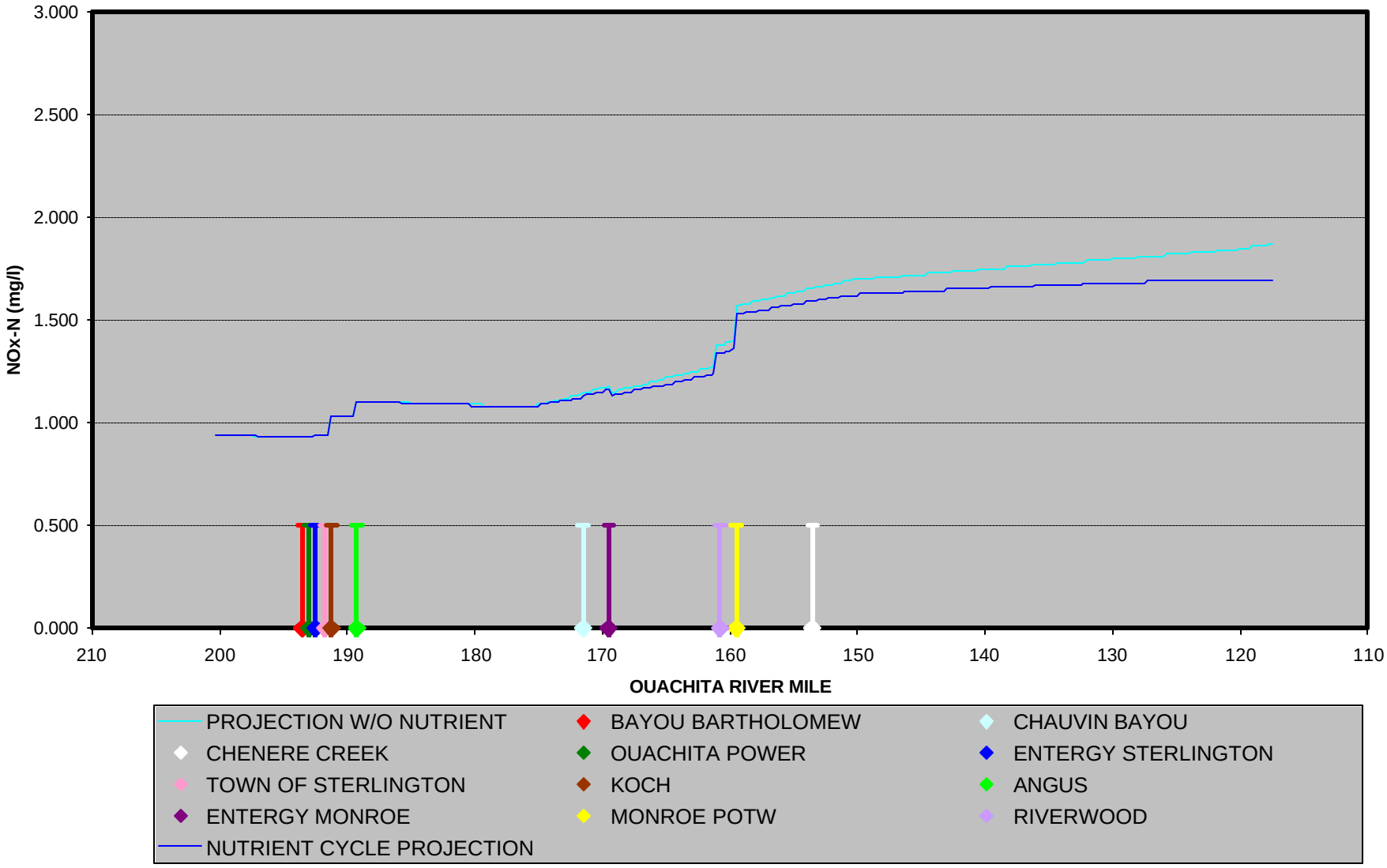
LOWER OUACHITA RIVER AUGUST NH_3-N PROJECTION W/O REDUCTION AND W/O NUTRIENT & ALGAE CYCLES



LOWER OUACHITA RIVER AUGUST NOx-N PROJECTION W/O REDUCTION AND W/O NUTRIENT & ALGAE CYCLES

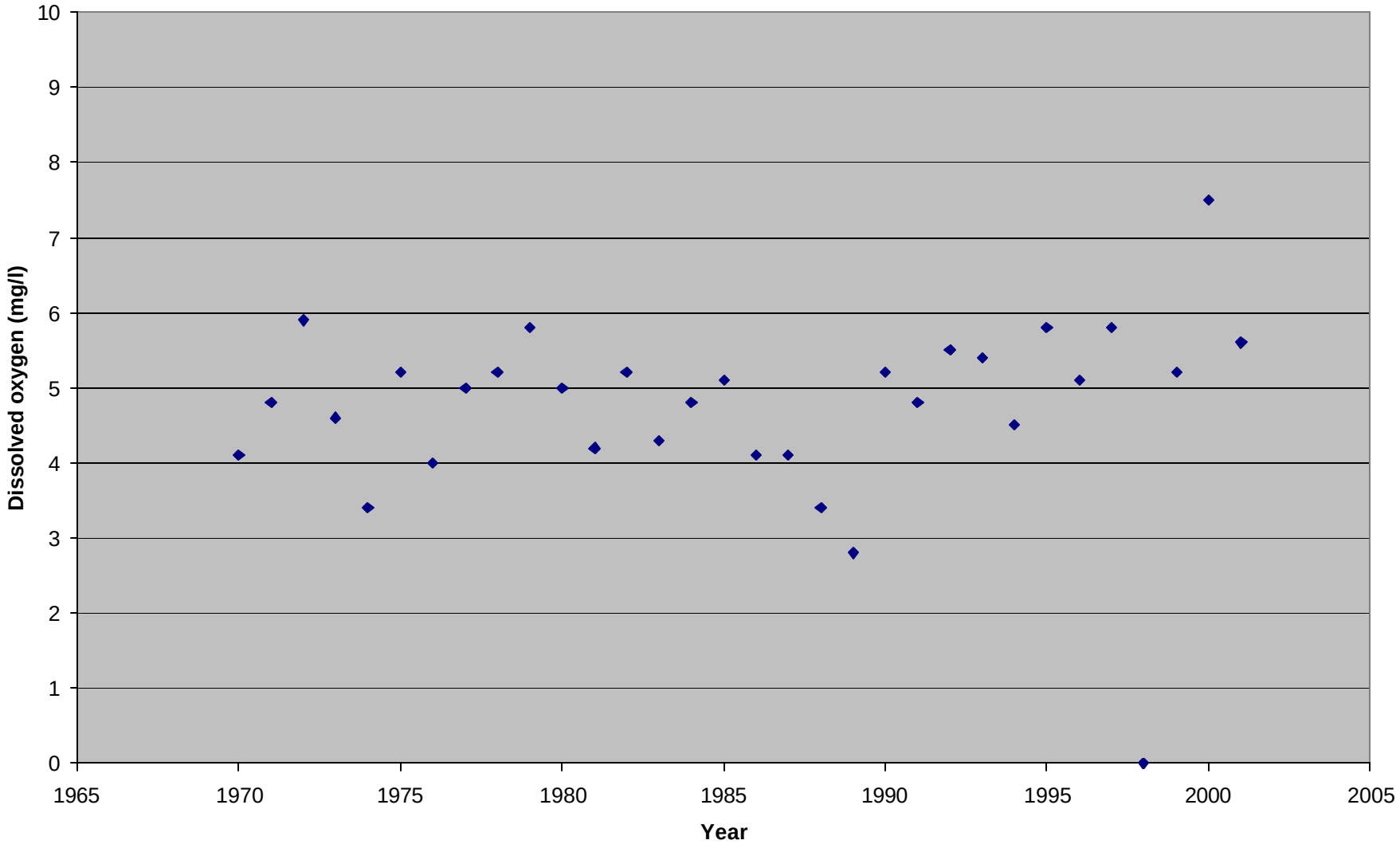


LOWER OUACHITA RIVER AUGUST TN PROJECTION W/O REDUCTION AND W/O NUTRIENT & ALGAE CYCLES

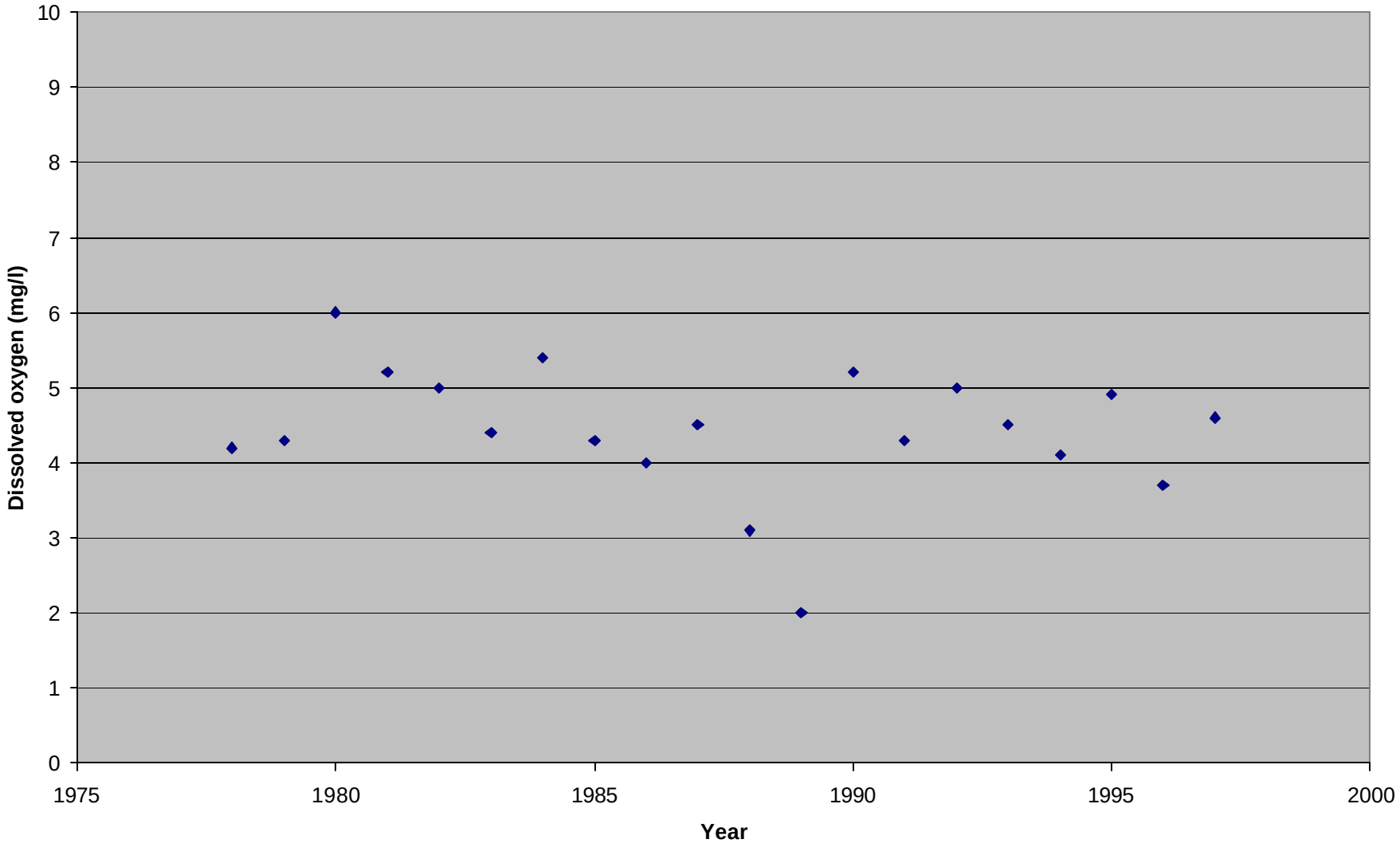


APPENDIX N - HISTORIC DATA TRENDS

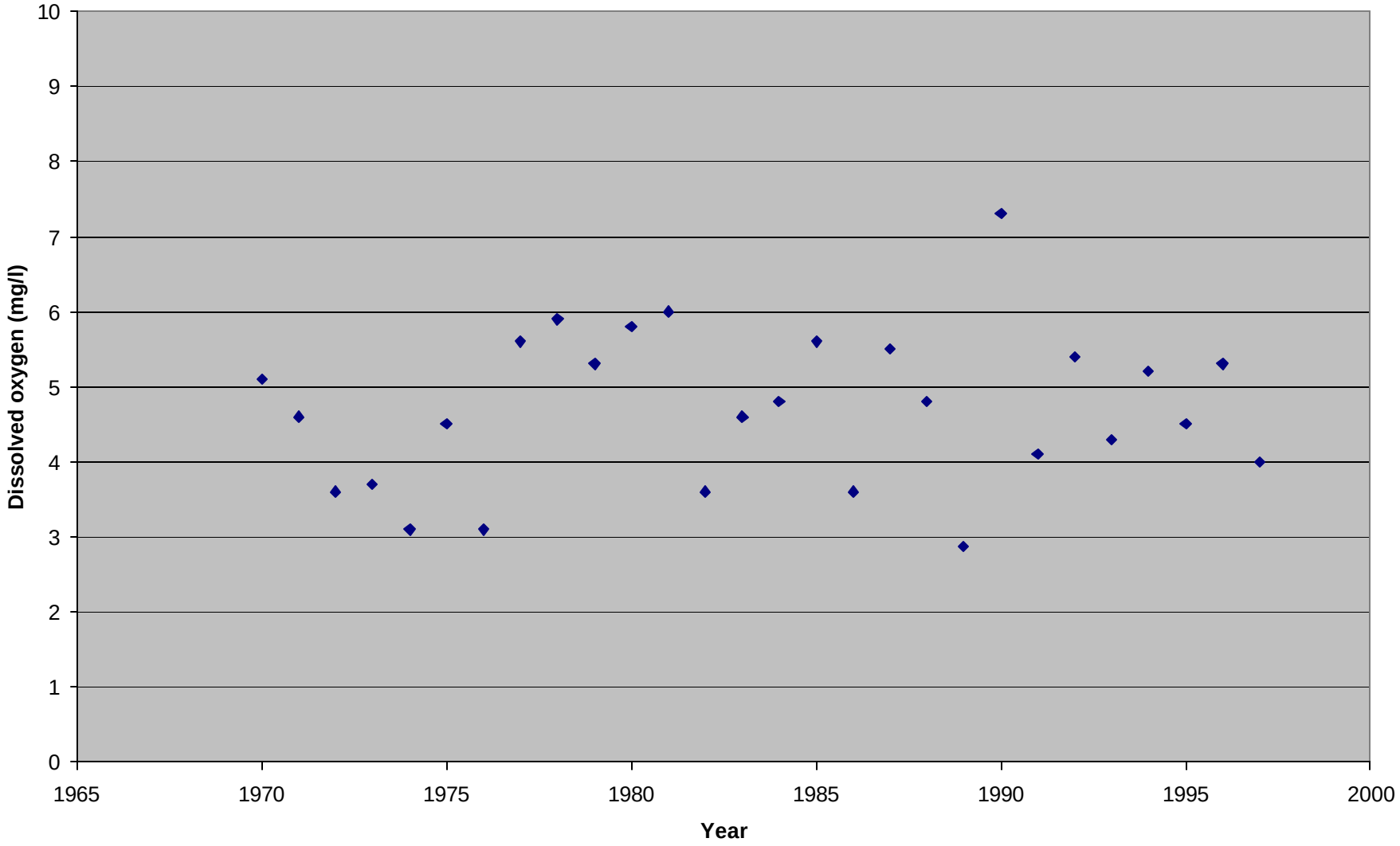
OUACHITA RIVER TREND FOR AUGUST DISSOLVED OXYGEN AT STERLINGTON



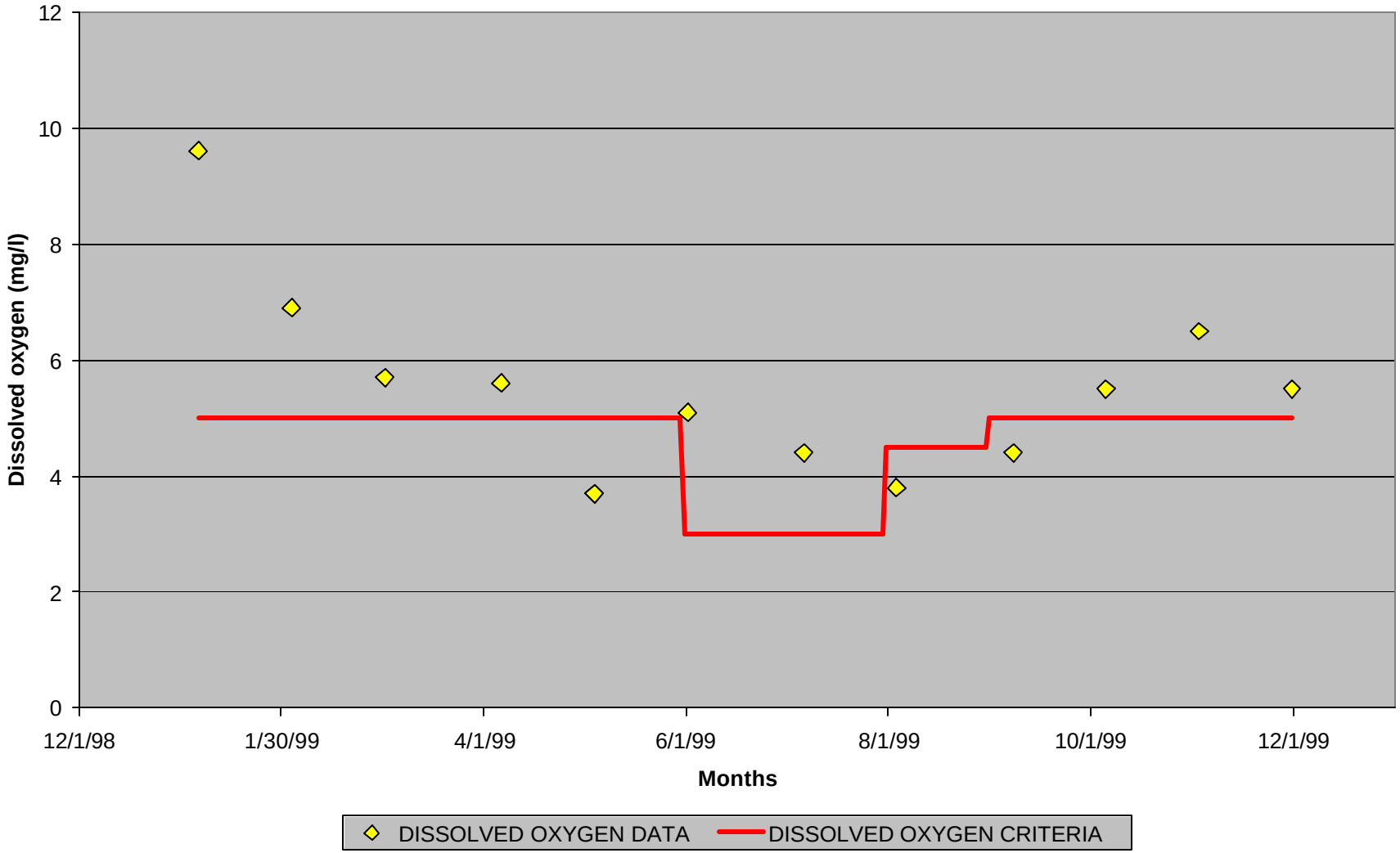
OUACHITA RIVER TREND FOR AUGUST DISSOLVED OXYGEN AT MONROE



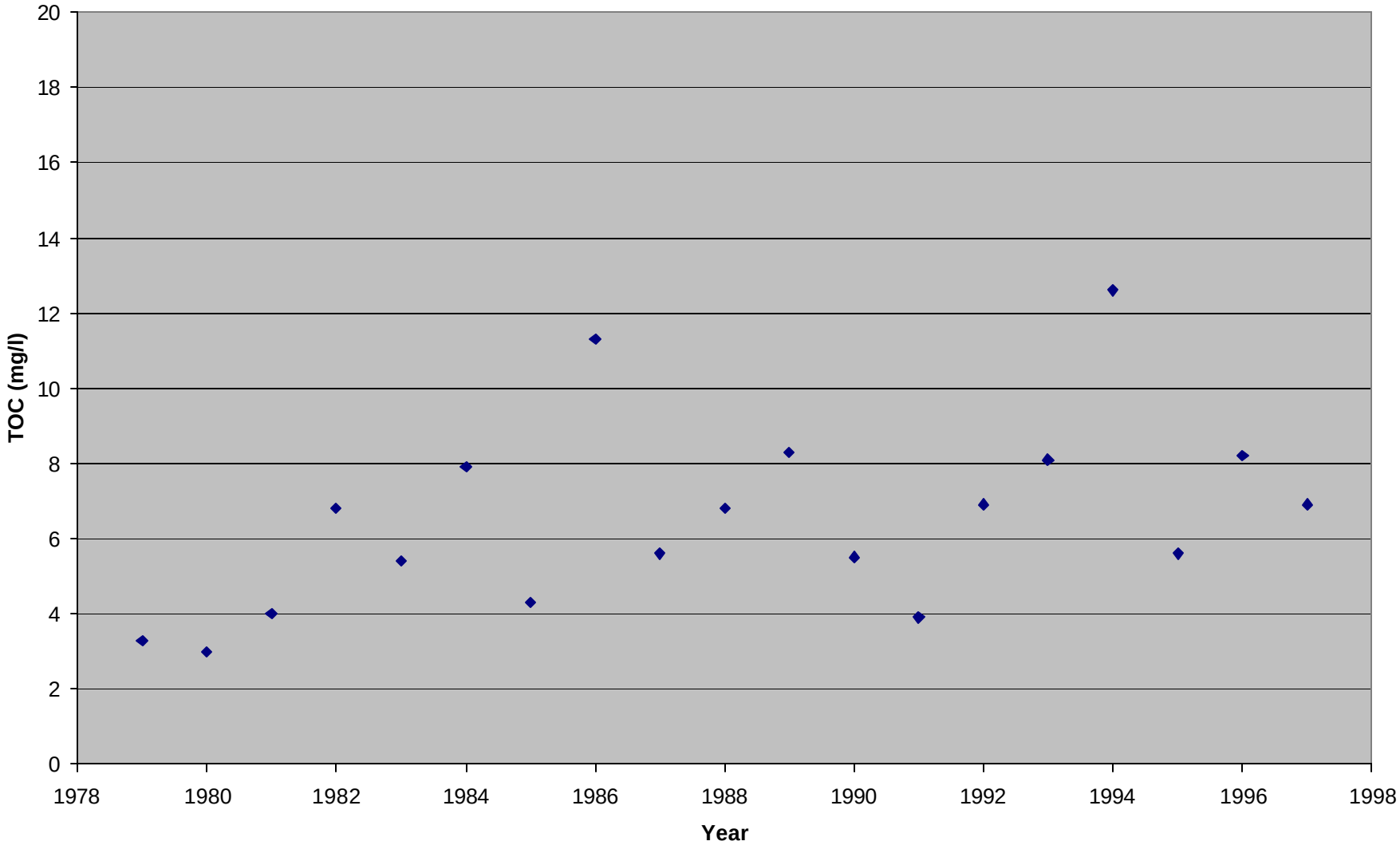
OUACHITA RIVER TREND FOR AUGUST DISSOLVED OXYGEN AT COLUMBIA



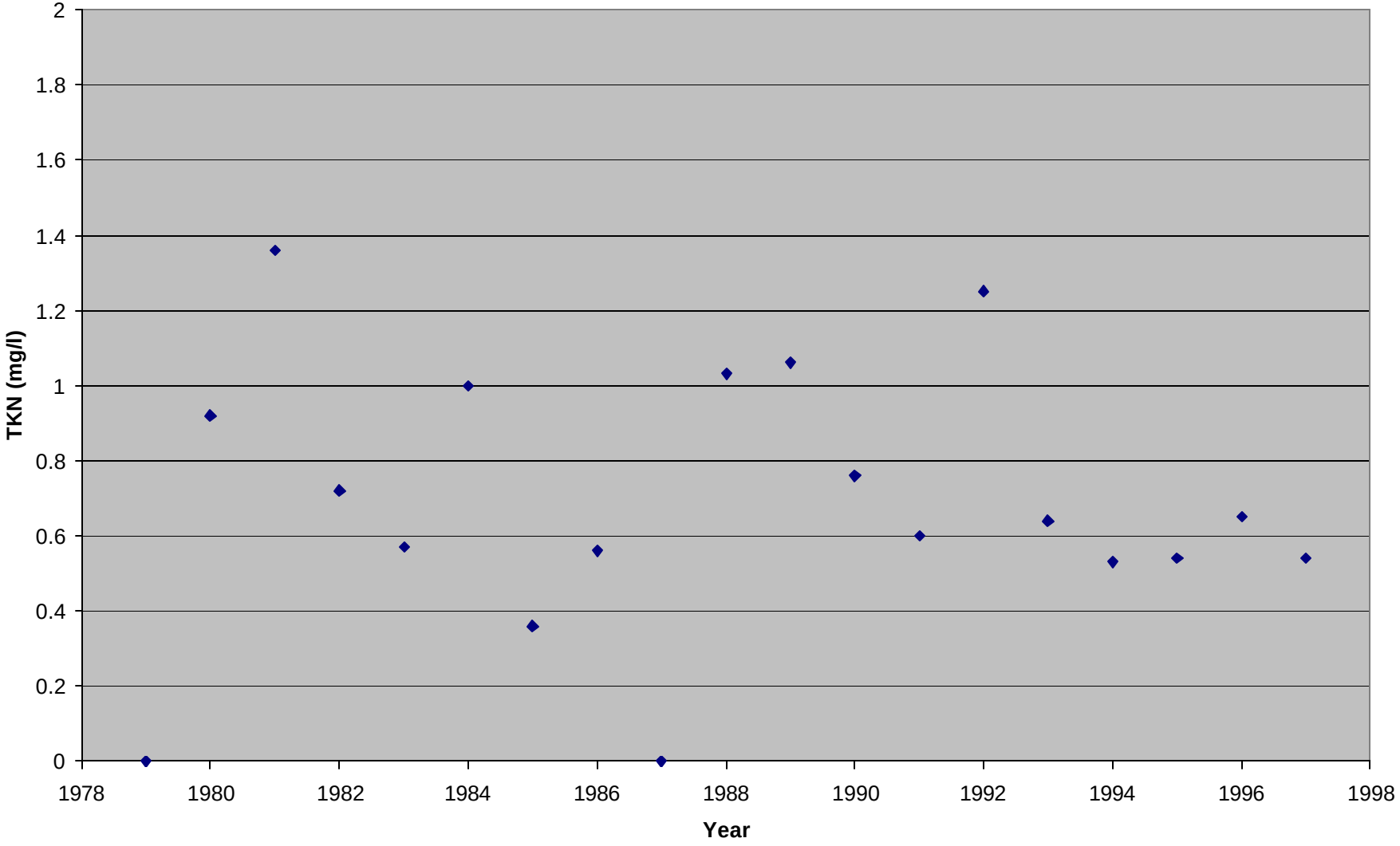
1999 DISSOLVED OXYGEN DATA IN THE NAVIGATION CHANNEL ABOVE COLUMBIA LOCK & DAM



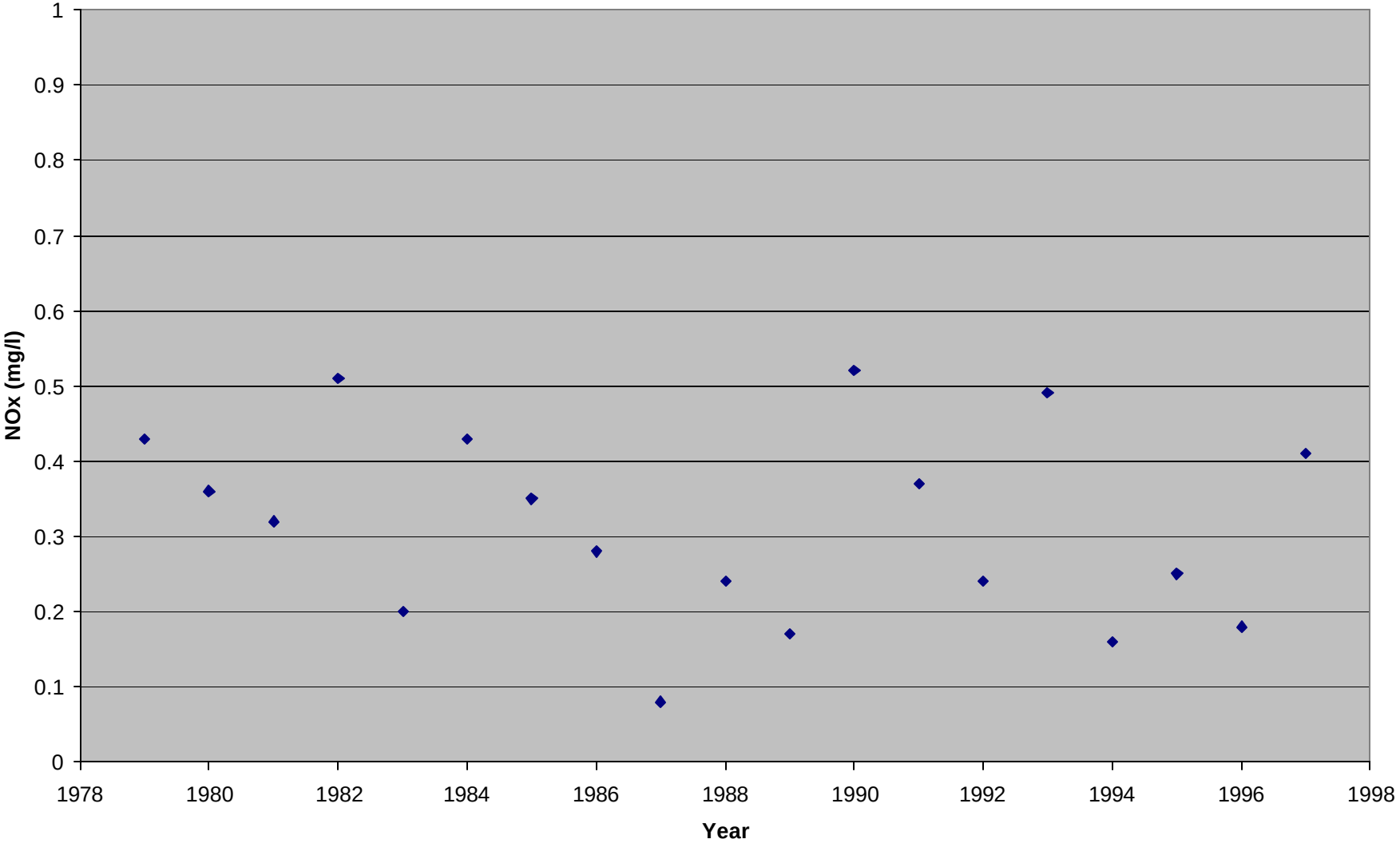
OUACHITA RIVER TREND FOR AUGUST TOC DATA AT COLUMBIA



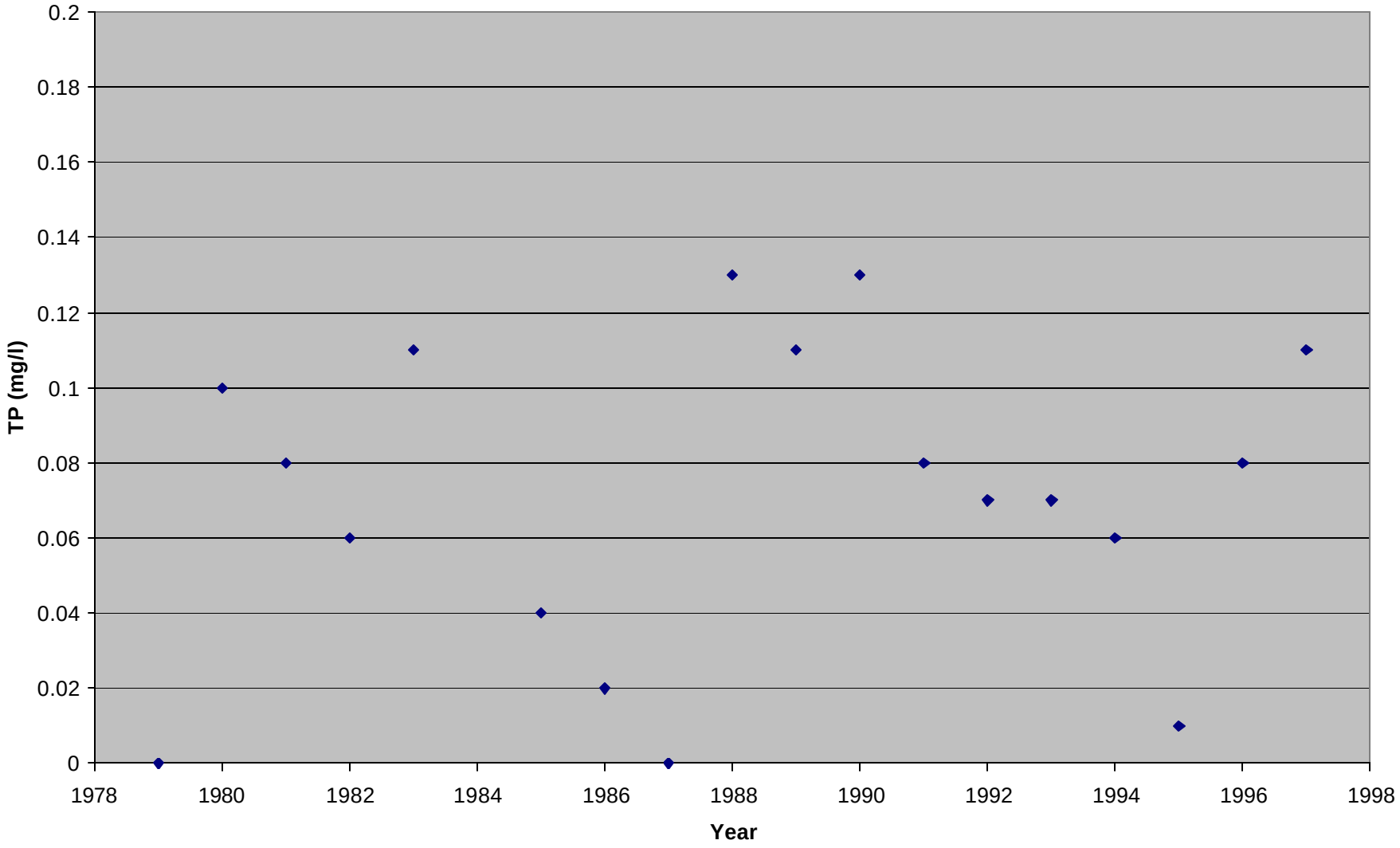
OUACHITA RIVER TREND FOR AUGUST TKN DATA AT COLUMBIA



OUACHITA RIVER TREND FOR AUGUST NOx DATA AT COLUMBIA



OUACHITA RIVER TREND FOR AUGUST TP DATA AT COLUMBIA



APPENDIX O – SURVEY DATA

CONTINUOUS MONITORING RECORDS

DataSonde 4a 37756
Log File Name : Ouachita River Site 1
Setup Date (MMDDYY) : 071601
Setup Time (HHMMSS) : 085130
Starting Date (MMDDYY) : 071601
Starting Time (HHMMSS) : 180000
Stopping Date (MMDDYY) : 071901
Stopping Time (HHMMSS) : 140000
Interval (HHMMSS) : 001500
Sensor warmup (HHMMSS) : 000200
Circltr warmup (HHMMSS) : 000200

Date MMDDYY	Time HHMMSS				Date & Time	Temp Øc	DO% Sat	DO mg/l	SpCond Æs/cm	Ph Units	Ibatt Volts
7/17/2001	160000	0.6667	0.0000	0.0000	7/17/2001 16:00	31.48	83.4	6.15	100.6	6.9	11.3
7/17/2001	161500	0.6667	0.0104	0.0000	7/17/2001 16:15	31.45	82.5	6.08	100.6	6.91	11.4
7/17/2001	163000	0.6667	0.0208	0.0000	7/17/2001 16:30	31.46	83.3	6.14	100.7	6.91	11.4
7/17/2001	164500	0.6667	0.0313	0.0000	7/17/2001 16:45	31.47	84.4	6.22	100.7	6.91	11.6
7/17/2001	170000	0.7083	0.0000	0.0000	7/17/2001 17:00	31.44	83.6	6.16	100.6	6.91	11.6
7/17/2001	171500	0.7083	0.0104	0.0000	7/17/2001 17:15	31.44	83.8	6.18	100.6	6.9	11.5
7/17/2001	173000	0.7083	0.0208	0.0000	7/17/2001 17:30	31.43	82.4	6.08	100.6	6.91	11.7
7/17/2001	174500	0.7083	0.0313	0.0000	7/17/2001 17:45	31.42	83.7	6.17	100.7	6.91	11.7
7/17/2001	180000	0.7500	0.0000	0.0000	7/17/2001 18:00	31.42	84	6.19	100.7	6.91	11.7
7/17/2001	181500	0.7500	0.0104	0.0000	7/17/2001 18:15	31.38	83.1	6.13	100.8	6.9	11.5
7/17/2001	183000	0.7500	0.0208	0.0000	7/17/2001 18:30	31.39	83.2	6.14	100.5	6.9	11.7
7/17/2001	184500	0.7500	0.0313	0.0000	7/17/2001 18:45	31.38	82.5	6.09	100.7	6.9	11.7
7/17/2001	190000	0.7917	0.0000	0.0000	7/17/2001 19:00	31.38	82.2	6.07	100.8	6.9	11.7
7/17/2001	191500	0.7917	0.0104	0.0000	7/17/2001 19:15	31.37	81.9	6.04	100.5	6.9	11.7
7/17/2001	193000	0.7917	0.0208	0.0000	7/17/2001 19:30	31.36	81.8	6.04	100.6	6.9	11.7
7/17/2001	194500	0.7917	0.0313	0.0000	7/17/2001 19:45	31.38	82.1	6.06	100.5	6.9	11.7
7/17/2001	200000	0.8333	0.0000	0.0000	7/17/2001 20:00	31.37	81.6	6.02	100.5	6.89	11.7
7/17/2001	201500	0.8333	0.0104	0.0000	7/17/2001 20:15	31.37	82.1	6.06	100.7	6.9	11.7
7/17/2001	203000	0.8333	0.0208	0.0000	7/17/2001 20:30	31.37	81.9	6.05	100.5	6.91	11.4
7/17/2001	204500	0.8333	0.0313	0.0000	7/17/2001 20:45	31.35	81.5	6.02	100.4	6.89	11.7
7/17/2001	210000	0.8750	0.0000	0.0000	7/17/2001 21:00	31.35	81.4	6.01	100.5	6.89	11.6
7/17/2001	211500	0.8750	0.0104	0.0000	7/17/2001 21:15	31.34	81	5.98	100.3	6.89	11.7
7/17/2001	213000	0.8750	0.0208	0.0000	7/17/2001 21:30	31.34	81.3	6	100.3	6.89	11.7
7/17/2001	214500	0.8750	0.0313	0.0000	7/17/2001 21:45	31.33	80.9	5.98	100.3	6.89	11.7
7/17/2001	220000	0.9167	0.0000	0.0000	7/17/2001 22:00	31.31	80.6	5.96	100.3	6.89	11.6
7/17/2001	221500	0.9167	0.0104	0.0000	7/17/2001 22:15	31.31	81.3	6	100.2	6.89	11.6

7/17/2001	223000	0.9167	0.0208	0.0000	7/17/2001 22:30	31.31	80.1	5.92	100.2	6.89	11.7
7/17/2001	224500	0.9167	0.0313	0.0000	7/17/2001 22:45	31.31	81.2	6	100.2	6.89	11.7
7/17/2001	230000	0.9583	0.0000	0.0000	7/17/2001 23:00	31.29	81.1	5.99	100.2	6.9	11.7
7/17/2001	231500	0.9583	0.0104	0.0000	7/17/2001 23:15	31.29	80.7	5.97	100.2	6.88	11.7
7/17/2001	233000	0.9583	0.0208	0.0000	7/17/2001 23:30	31.28	80.7	5.97	100	6.89	11.7
7/17/2001	234500	0.9583	0.0313	0.0000	7/17/2001 23:45	31.27	80.6	5.96	100	6.88	11.6
7/18/2001	0	0.0000	0.0000	0.0000	7/18/2001 0:00	31.25	80.5	5.96	100	6.88	11.7
7/18/2001	1500	0.0000	0.0104	0.0000	7/18/2001 0:15	31.25	80.5	5.96	100	6.89	11.6
7/18/2001	3000	0.0000	0.0208	0.0000	7/18/2001 0:30	31.24	80.7	5.97	99.8	6.88	11.7
7/18/2001	4500	0.0000	0.0313	0.0000	7/18/2001 0:45	31.24	80.9	5.99	99.8	6.88	11.7
7/18/2001	10000	0.0417	0.0000	0.0000	7/18/2001 1:00	31.22	80.2	5.93	99.8	6.88	11.6
7/18/2001	11500	0.0417	0.0104	0.0000	7/18/2001 1:15	31.22	80.6	5.96	99.8	6.87	11.7
7/18/2001	13000	0.0417	0.0208	0.0000	7/18/2001 1:30	31.2	79.7	5.9	99.9	6.88	11.7
7/18/2001	14500	0.0417	0.0313	0.0000	7/18/2001 1:45	31.2	80.7	5.97	99.8	6.88	11.7
7/18/2001	20000	0.0833	0.0000	0.0000	7/18/2001 2:00	31.18	80	5.92	99.8	6.88	11.7
7/18/2001	21500	0.0833	0.0104	0.0000	7/18/2001 2:15	31.18	80	5.93	99.9	6.88	11.7
7/18/2001	23000	0.0833	0.0208	0.0000	7/18/2001 2:30	31.18	80	5.92	99.9	6.88	11.7
7/18/2001	24500	0.0833	0.0313	0.0000	7/18/2001 2:45	31.16	79.9	5.92	99.9	6.88	11.7
7/18/2001	30000	0.1250	0.0000	0.0000	7/18/2001 3:00	31.18	80.1	5.93	100.2	6.88	11.7
7/18/2001	31500	0.1250	0.0104	0.0000	7/18/2001 3:15	31.16	80.4	5.96	100.2	6.88	11.6
7/18/2001	33000	0.1250	0.0208	0.0000	7/18/2001 3:30	31.14	79.7	5.9	100.2	6.88	11.7
7/18/2001	34500	0.1250	0.0313	0.0000	7/18/2001 3:45	31.15	79.4	5.88	100.4	6.88	11.6
7/18/2001	40000	0.1667	0.0000	0.0000	7/18/2001 4:00	31.13	79.7	5.9	100.6	6.88	11.6
7/18/2001	41500	0.1667	0.0104	0.0000	7/18/2001 4:15	31.1	79.4	5.89	100.7	6.88	11.7
7/18/2001	43000	0.1667	0.0208	0.0000	7/18/2001 4:30	31.09	79.2	5.87	100.7	6.88	11.6
7/18/2001	44500	0.1667	0.0313	0.0000	7/18/2001 4:45	31.08	79.2	5.88	100.9	6.87	11.7
7/18/2001	50000	0.2083	0.0000	0.0000	7/18/2001 5:00	31.08	78	5.79	101.2	6.87	11.6
7/18/2001	51500	0.2083	0.0104	0.0000	7/18/2001 5:15	31.08	78.3	5.81	101.5	6.87	11.7
7/18/2001	53000	0.2083	0.0208	0.0000	7/18/2001 5:30	31.06	78.4	5.81	101.5	6.88	11.6
7/18/2001	54500	0.2083	0.0313	0.0000	7/18/2001 5:45	31.05	78	5.79	101.6	6.87	11.7
7/18/2001	60000	0.2500	0.0000	0.0000	7/18/2001 6:00	31.03	77.7	5.77	101.8	6.87	11.6
7/18/2001	61500	0.2500	0.0104	0.0000	7/18/2001 6:15	31.02	77.3	5.74	102	6.86	11.5
7/18/2001	63000	0.2500	0.0208	0.0000	7/18/2001 6:30	31.01	77.1	5.73	102.1	6.86	11.6
7/18/2001	64500	0.2500	0.0313	0.0000	7/18/2001 6:45	31	77.3	5.74	102.3	6.86	11.7
7/18/2001	70000	0.2917	0.0000	0.0000	7/18/2001 7:00	31.01	77.6	5.76	103	6.86	11.7
7/18/2001	71500	0.2917	0.0104	0.0000	7/18/2001 7:15	31	77.4	5.75	102.9	6.87	11.6
7/18/2001	73000	0.2917	0.0208	0.0000	7/18/2001 7:30	30.98	77.1	5.73	103	6.87	11.7
7/18/2001	74500	0.2917	0.0313	0.0000	7/18/2001 7:45	30.99	77.2	5.73	103.6	6.88	11.6
7/18/2001	80000	0.3333	0.0000	0.0000	7/18/2001 8:00	31.02	77.5	5.75	103.9	6.87	11.5
7/18/2001	81500	0.3333	0.0104	0.0000	7/18/2001 8:15	31.02	77.3	5.74	104.1	6.87	11.6
7/18/2001	83000	0.3333	0.0208	0.0000	7/18/2001 8:30	31.02	77.4	5.75	104.3	6.87	11.5
7/18/2001	84500	0.3333	0.0313	0.0000	7/18/2001 8:45	31.04	77.5	5.75	104.6	6.88	11.5

7/18/2001	90000	0.3750	0.0000	0.0000	7/18/2001 9:00	31.05	77.6	5.76	104.4	6.88	11.5
7/18/2001	91500	0.3750	0.0104	0.0000	7/18/2001 9:15	31.07	77.1	5.72	104.6	6.87	11.5
7/18/2001	93000	0.3750	0.0208	0.0000	7/18/2001 9:30	31.08	76.5	5.67	104.7	6.89	11.5
7/18/2001	94500	0.3750	0.0313	0.0000	7/18/2001 9:45	31.09	76.8	5.7	104.9	6.88	11.6
7/18/2001	100000	0.4167	0.0000	0.0000	7/18/2001 10:00	31.11	77.4	5.74	105	6.89	11.6
7/18/2001	101500	0.4167	0.0104	0.0000	7/18/2001 10:15	31.13	77	5.7	105.2	6.89	11.4
7/18/2001	103000	0.4167	0.0208	0.0000	7/18/2001 10:30	31.21	77.8	5.76	105.4	6.89	11.4
7/18/2001	104500	0.4167	0.0313	0.0000	7/18/2001 10:45	31.23	77	5.69	105.6	6.88	11.5
7/18/2001	110000	0.4583	0.0000	0.0000	7/18/2001 11:00	31.23	77.2	5.71	105.6	6.89	11.4
7/18/2001	111500	0.4583	0.0104	0.0000	7/18/2001 11:15	31.19	77.5	5.74	105.9	6.88	11.3
7/18/2001	113000	0.4583	0.0208	0.0000	7/18/2001 11:30	31.26	77.5	5.73	105.9	6.85	11.4
7/18/2001	114500	0.4583	0.0313	0.0000	7/18/2001 11:45	31.34	77.5	5.73	106.1	6.89	11.4
7/18/2001	120000	0.5000	0.0000	0.0000	7/18/2001 12:00	31.33	78.2	5.77	106.4	6.87	11.4
7/18/2001	121500	0.5000	0.0104	0.0000	7/18/2001 12:15	31.23	77.6	5.74	106.7	6.88	11.1
7/18/2001	123000	0.5000	0.0208	0.0000	7/18/2001 12:30	31.29	78.8	5.83	107.3	6.85	11.3
7/18/2001	124500	0.5000	0.0313	0.0000	7/18/2001 12:45	31.31	78.4	5.79	107.4	6.88	11.4
7/18/2001	130000	0.5417	0.0000	0.0000	7/18/2001 13:00	31.35	78.8	5.81	107.7	6.87	11.4
7/18/2001	131500	0.5417	0.0104	0.0000	7/18/2001 13:15	31.42	79.7	5.88	107.9	6.88	11.2
7/18/2001	133000	0.5417	0.0208	0.0000	7/18/2001 13:30	31.56	81.6	6	109	6.91	11.1
7/18/2001	134500	0.5417	0.0313	0.0000	7/18/2001 13:45	31.57	81.5	5.99	108.4	6.76	11.1
7/18/2001	140000	0.5833	0.0000	0.0000	7/18/2001 14:00	31.62	81.3	5.97	108.6	6.91	11.2
7/18/2001	141500	0.5833	0.0104	0.0000	7/18/2001 14:15	31.72	81.4	5.97	108.7	6.98	11.2
7/18/2001	143000	0.5833	0.0208	0.0000	7/18/2001 14:30	31.82	82.1	6.01	108.6	6.92	11.6
7/18/2001	144500	0.5833	0.0313	0.0000	7/18/2001 14:45	31.96	84.6	6.18	108.9	6.96	11.3
7/18/2001	150000	0.6250	0.0000	0.0000	7/18/2001 15:00	31.87	82.4	6.03	108.7	6.93	11.6
7/18/2001	151500	0.6250	0.0104	0.0000	7/18/2001 15:15	31.94	83.8	6.12	108.9	6.97	11.4
7/18/2001	153000	0.6250	0.0208	0.0000	7/18/2001 15:30	31.8	82.9	6.08	109.2	7.01	11.4
7/18/2001	154500	0.6250	0.0313	0.0000	7/18/2001 15:45	31.75	81.6	5.99	109.2	7.04	11.5
7/18/2001	160000	0.6667	0.0000	0.0000	7/18/2001 16:00	31.67	81.4	5.97	109.2	7.02	11.6
7/18/2001	161500	0.6667	0.0104	0.0000	7/18/2001 16:15	31.6	82.6	6.07	109.6	6.97	11.4
7/18/2001	163000	0.6667	0.0208	0.0000	7/18/2001 16:30	31.49	78.8	5.8	109.5	6.97	11.5
7/18/2001	164500	0.6667	0.0313	0.0000	7/18/2001 16:45	31.46	80.4	5.92	109.5	6.95	11.6
7/18/2001	170000	0.7083	0.0000	0.0000	7/18/2001 17:00	31.4	79.7	5.88	109.7	6.93	11.4
7/18/2001	171500	0.7083	0.0104	0.0000	7/18/2001 17:15	31.55	83.3	6.13	110.4	6.94	11.3
7/18/2001	173000	0.7083	0.0208	0.0000	7/18/2001 17:30	31.36	80	5.9	110.1	6.92	11.2
7/18/2001	174500	0.7083	0.0313	0.0000	7/18/2001 17:45	31.44	81.8	6.03	110.3	6.94	11.5
7/18/2001	180000	0.7500	0.0000	0.0000	7/18/2001 18:00	31.47	82.1	6.05	110.5	6.94	11.4
7/18/2001	181500	0.7500	0.0104	0.0000	7/18/2001 18:15	31.46	81.9	6.04	110.4	6.94	11.1
7/18/2001	183000	0.7500	0.0208	0.0000	7/18/2001 18:30	31.4	81.8	6.03	110.5	6.96	11.2
7/18/2001	184500	0.7500	0.0313	0.0000	7/18/2001 18:45	31.4	81.3	6	110.7	6.96	11.2
7/18/2001	190000	0.7917	0.0000	0.0000	7/18/2001 19:00	31.42	81.4	6	110.5	6.95	11.5
7/18/2001	191500	0.7917	0.0104	0.0000	7/18/2001 19:15	31.35	81.3	6	110.7	6.94	10.7

7/18/2001	193000	0.7917	0.0208	0.0000	7/18/2001 19:30	31.35	81.3	6	110.9	6.93	11.2
7/18/2001	194500	0.7917	0.0313	0.0000	7/18/2001 19:45	31.35	80.7	5.96	111	6.94	11.2
7/18/2001	200000	0.8333	0.0000	0.0000	7/18/2001 20:00	31.29	80	5.91	111	6.94	11.4
7/18/2001	201500	0.8333	0.0104	0.0000	7/18/2001 20:15	31.33	79.9	5.9	110.9	6.93	11.4
7/18/2001	203000	0.8333	0.0208	0.0000	7/18/2001 20:30	31.29	79.3	5.86	111.1	6.93	11.5
7/18/2001	204500	0.8333	0.0313	0.0000	7/18/2001 20:45	31.29	79.6	5.89	111.1	6.93	11.5
7/18/2001	210000	0.8750	0.0000	0.0000	7/18/2001 21:00	31.27	77.8	5.75	111.1	6.94	11.4
7/18/2001	211500	0.8750	0.0104	0.0000	7/18/2001 21:15	31.28	78.2	5.78	111.1	6.93	11.5
7/18/2001	213000	0.8750	0.0208	0.0000	7/18/2001 21:30	31.29	78.3	5.78	111.1	6.94	11.5
7/18/2001	214500	0.8750	0.0313	0.0000	7/18/2001 21:45	31.29	78	5.77	111.1	6.94	11.5
7/18/2001	220000	0.9167	0.0000	0.0000	7/18/2001 22:00	31.28	78	5.76	111.1	6.94	11.4
7/18/2001	221500	0.9167	0.0104	0.0000	7/18/2001 22:15	31.29	77.2	5.71	111.1	6.95	11.5
7/18/2001	223000	0.9167	0.0208	0.0000	7/18/2001 22:30	31.28	78.3	5.78	111.2	6.94	11.5
7/18/2001	224500	0.9167	0.0313	0.0000	7/18/2001 22:45	31.27	77.9	5.76	111.3	6.96	11.5
7/18/2001	230000	0.9583	0.0000	0.0000	7/18/2001 23:00	31.27	77.9	5.76	111.3	6.96	11.5
7/18/2001	231500	0.9583	0.0104	0.0000	7/18/2001 23:15	31.26	78.5	5.81	111.6	6.96	11.5
7/18/2001	233000	0.9583	0.0208	0.0000	7/18/2001 23:30	31.28	77.8	5.75	111.6	6.95	11.5
7/18/2001	234500	0.9583	0.0313	0.0000	7/18/2001 23:45	31.28	77.7	5.74	111.6	6.95	11.4
7/19/2001	0	0.0000	0.0000	0.0000	7/19/2001 0:00	31.27	77.3	5.71	111.6	6.95	11.5
7/19/2001	1500	0.0000	0.0104	0.0000	7/19/2001 0:15	31.29	77.4	5.72	111.6	6.95	11.5
7/19/2001	3000	0.0000	0.0208	0.0000	7/19/2001 0:30	31.27	77.6	5.73	111.6	6.94	11.5
7/19/2001	4500	0.0000	0.0313	0.0000	7/19/2001 0:45	31.27	76.4	5.65	111.6	6.95	11.5
7/19/2001	10000	0.0417	0.0000	0.0000	7/19/2001 1:00	31.27	76.7	5.67	111.8	6.95	11.4
7/19/2001	11500	0.0417	0.0104	0.0000	7/19/2001 1:15	31.28	77.5	5.73	111.6	6.95	11.5
7/19/2001	13000	0.0417	0.0208	0.0000	7/19/2001 1:30	31.29	76.5	5.66	111.8	6.95	11.5
7/19/2001	14500	0.0417	0.0313	0.0000	7/19/2001 1:45	31.3	76.1	5.62	111.8	6.95	11.5
7/19/2001	20000	0.0833	0.0000	0.0000	7/19/2001 2:00	31.27	76.6	5.66	111.8	6.95	11.4
7/19/2001	21500	0.0833	0.0104	0.0000	7/19/2001 2:15	31.28	76.2	5.63	111.6	6.95	11.5
7/19/2001	23000	0.0833	0.0208	0.0000	7/19/2001 2:30	31.26	76.2	5.63	111.7	6.95	11.4
7/19/2001	24500	0.0833	0.0313	0.0000	7/19/2001 2:45	31.26	75.9	5.61	111.9	6.95	11.5
7/19/2001	30000	0.1250	0.0000	0.0000	7/19/2001 3:00	31.26	76	5.62	111.9	6.95	11.5
7/19/2001	31500	0.1250	0.0104	0.0000	7/19/2001 3:15	31.26	74.5	5.51	111.9	6.95	11.5
7/19/2001	33000	0.1250	0.0208	0.0000	7/19/2001 3:30	31.25	75.9	5.62	111.9	6.96	11.5
7/19/2001	34500	0.1250	0.0313	0.0000	7/19/2001 3:45	31.24	76.5	5.66	112.1	6.95	11.5
7/19/2001	40000	0.1667	0.0000	0.0000	7/19/2001 4:00	31.23	77	5.7	112	6.95	11.5
7/19/2001	41500	0.1667	0.0104	0.0000	7/19/2001 4:15	31.24	76.4	5.65	112.1	6.96	11.5
7/19/2001	43000	0.1667	0.0208	0.0000	7/19/2001 4:30	31.22	76.2	5.64	112.1	6.95	11.5
7/19/2001	44500	0.1667	0.0313	0.0000	7/19/2001 4:45	31.22	76.8	5.68	112.1	6.96	11.5
7/19/2001	50000	0.2083	0.0000	0.0000	7/19/2001 5:00	31.21	77	5.7	112.2	6.95	11.5
7/19/2001	51500	0.2083	0.0104	0.0000	7/19/2001 5:15	31.18	76.8	5.68	112.3	6.95	11.5
7/19/2001	53000	0.2083	0.0208	0.0000	7/19/2001 5:30	31.17	76	5.63	112.3	6.95	11.5
7/19/2001	54500	0.2083	0.0313	0.0000	7/19/2001 5:45	31.15	77.4	5.74	112.5	6.95	11.5

7/19/2001	60000	0.2500	0.0000	0.0000	7/19/2001 6:00	31.15	77.6	5.75	112.4	6.95	11.5
					Maximum	31.96	84.6	6.22	112.5	7.04	11.7
					Average	31.29	79.5	5.87	105.9	6.91	11.5
					Minimum	30.98	74.5	5.51	99.8	6.76	10.7

DataSonde 4a 37759
Log File Name : Ouachita River Site 2
Setup Date (MMDDYY) : 071601
Setup Time (HHMMSS) : 084338
Starting Date (MMDDYY) : 071601
Starting Time (HHMMSS) : 180000
Stopping Date (MMDDYY) : 071901
Stopping Time (HHMMSS) : 140000
Interval (HHMMSS) : 001500
Sensor warmup (HHMMSS) : 000200
Circltr warmup (HHMMSS) : 000200

Date MMDDYY	Time HHMMSS				Date & Time	Temp Øc	DO% Sat	DO mg/l	SpCond Æs/cm	Ph Units	Ibatt Volts
7/17/2001	160000	0.6667	0.0000	0.0000	7/17/2001 16:00	31.42	63.6	4.69	105.9	6.86	11.5
7/17/2001	161500	0.6667	0.0104	0.0000	7/17/2001 16:15	31.46	61.5	4.53	105.9	6.87	11.4
7/17/2001	163000	0.6667	0.0208	0.0000	7/17/2001 16:30	31.48	62.3	4.59	105.6	6.87	11.4
7/17/2001	164500	0.6667	0.0313	0.0000	7/17/2001 16:45	31.45	61.8	4.55	105.9	6.87	11.4
7/17/2001	170000	0.7083	0.0000	0.0000	7/17/2001 17:00	31.45	63.2	4.65	105.5	6.87	11.5
7/17/2001	171500	0.7083	0.0104	0.0000	7/17/2001 17:15	31.43	65.5	4.83	105.7	6.87	11.1
7/17/2001	173000	0.7083	0.0208	0.0000	7/17/2001 17:30	31.51	63.3	4.66	105	6.89	11.5
7/17/2001	174500	0.7083	0.0313	0.0000	7/17/2001 17:45	31.46	61	4.5	105	6.88	11.4
7/17/2001	180000	0.7500	0.0000	0.0000	7/17/2001 18:00	31.53	61.9	4.55	104.4	6.89	11.4
7/17/2001	181500	0.7500	0.0104	0.0000	7/17/2001 18:15	31.53	60.8	4.48	104.5	6.89	11.4
7/17/2001	183000	0.7500	0.0208	0.0000	7/17/2001 18:30	31.49	62.8	4.63	105	6.89	11.4
7/17/2001	184500	0.7500	0.0313	0.0000	7/17/2001 18:45	31.53	61.5	4.52	105.3	6.9	11.4
7/17/2001	190000	0.7917	0.0000	0.0000	7/17/2001 19:00	31.6	63.7	4.68	105	6.9	11.4
7/17/2001	191500	0.7917	0.0104	0.0000	7/17/2001 19:15	31.52	64	4.71	105.4	6.88	11.5
7/17/2001	193000	0.7917	0.0208	0.0000	7/17/2001 19:30	31.58	62.9	4.63	105.5	6.9	11.4
7/17/2001	194500	0.7917	0.0313	0.0000	7/17/2001 19:45	31.6	64.4	4.73	105.5	6.9	11.4
7/17/2001	200000	0.8333	0.0000	0.0000	7/17/2001 20:00	31.57	67.5	4.96	105.6	6.9	11.5
7/17/2001	201500	0.8333	0.0104	0.0000	7/17/2001 20:15	31.57	64.7	4.76	105.6	6.91	11.5
7/17/2001	203000	0.8333	0.0208	0.0000	7/17/2001 20:30	31.6	69.9	5.14	105.5	6.9	11.4
7/17/2001	204500	0.8333	0.0313	0.0000	7/17/2001 20:45	31.57	66	4.85	105.2	6.92	11.4
7/17/2001	210000	0.8750	0.0000	0.0000	7/17/2001 21:00	31.53	64.6	4.75	105.2	6.91	11.5
7/17/2001	211500	0.8750	0.0104	0.0000	7/17/2001 21:15	31.53	65.5	4.82	104.9	6.9	11.4
7/17/2001	213000	0.8750	0.0208	0.0000	7/17/2001 21:30	31.49	65.2	4.8	105.4	6.9	11.5
7/17/2001	214500	0.8750	0.0313	0.0000	7/17/2001 21:45	31.47	64.4	4.75	105.2	6.89	11.4
7/17/2001	220000	0.9167	0.0000	0.0000	7/17/2001 22:00	31.48	63.7	4.69	105.6	6.89	11.4
7/17/2001	221500	0.9167	0.0104	0.0000	7/17/2001 22:15	31.48	63.5	4.68	105.6	6.89	11.4

7/17/2001	223000	0.9167	0.0208	0.0000	7/17/2001	22:30	31.48	63.7	4.69	106.1	6.89	11.4
7/17/2001	224500	0.9167	0.0313	0.0000	7/17/2001	22:45	31.45	65.2	4.8	105.6	6.9	11.4
7/17/2001	230000	0.9583	0.0000	0.0000	7/17/2001	23:00	31.45	64.9	4.78	105.5	6.9	11.4
7/17/2001	231500	0.9583	0.0104	0.0000	7/17/2001	23:15	31.45	63.5	4.68	105.7	6.89	11.4
7/17/2001	233000	0.9583	0.0208	0.0000	7/17/2001	23:30	31.44	62.8	4.63	105.7	6.89	11.4
7/17/2001	234500	0.9583	0.0313	0.0000	7/17/2001	23:45	31.44	63	4.64	106	6.89	11.5
7/18/2001	0	0.0000	0.0000	0.0000	7/18/2001	0:00	31.43	62.4	4.6	106.1	6.89	11.4
7/18/2001	1500	0.0000	0.0104	0.0000	7/18/2001	0:15	31.43	63.9	4.71	105.9	6.9	11.4
7/18/2001	3000	0.0000	0.0208	0.0000	7/18/2001	0:30	31.42	63	4.65	106.1	6.89	11.5
7/18/2001	4500	0.0000	0.0313	0.0000	7/18/2001	0:45	31.42	63.1	4.65	106	6.89	11.4
7/18/2001	10000	0.0417	0.0000	0.0000	7/18/2001	1:00	31.41	64.6	4.76	106	6.91	11.4
7/18/2001	11500	0.0417	0.0104	0.0000	7/18/2001	1:15	31.42	62.4	4.6	106.4	6.89	11.4
7/18/2001	13000	0.0417	0.0208	0.0000	7/18/2001	1:30	31.41	64.3	4.74	106.7	6.88	11.4
7/18/2001	14500	0.0417	0.0313	0.0000	7/18/2001	1:45	31.42	62.3	4.6	106	6.89	11.4
7/18/2001	20000	0.0833	0.0000	0.0000	7/18/2001	2:00	31.43	63.1	4.65	106.5	6.89	11.4
7/18/2001	21500	0.0833	0.0104	0.0000	7/18/2001	2:15	31.44	62.5	4.61	106.7	6.89	11.4
7/18/2001	23000	0.0833	0.0208	0.0000	7/18/2001	2:30	31.43	63.5	4.68	106.7	6.89	11.4
7/18/2001	24500	0.0833	0.0313	0.0000	7/18/2001	2:45	31.49	60.9	4.49	106.2	6.9	11.5
7/18/2001	30000	0.1250	0.0000	0.0000	7/18/2001	3:00	31.5	61.9	4.56	106.5	6.89	11.4
7/18/2001	31500	0.1250	0.0104	0.0000	7/18/2001	3:15	31.51	61.8	4.55	106.3	6.89	11.4
7/18/2001	33000	0.1250	0.0208	0.0000	7/18/2001	3:30	31.55	64.5	4.74	105.6	6.88	11.4
7/18/2001	34500	0.1250	0.0313	0.0000	7/18/2001	3:45	31.57	62.8	4.62	105.5	6.89	11.4
7/18/2001	40000	0.1667	0.0000	0.0000	7/18/2001	4:00	31.61	62.1	4.56	105.4	6.88	11.4
7/18/2001	41500	0.1667	0.0104	0.0000	7/18/2001	4:15	31.64	62.8	4.61	105.4	6.9	11.4
7/18/2001	43000	0.1667	0.0208	0.0000	7/18/2001	4:30	31.65	62.4	4.58	106	6.89	11.4
7/18/2001	44500	0.1667	0.0313	0.0000	7/18/2001	4:45	31.67	63	4.62	105.6	6.89	11.4
7/18/2001	50000	0.2083	0.0000	0.0000	7/18/2001	5:00	31.67	61.3	4.5	105.6	6.88	11.4
7/18/2001	51500	0.2083	0.0104	0.0000	7/18/2001	5:15	31.69	62.9	4.61	105.3	6.89	11.4
7/18/2001	53000	0.2083	0.0208	0.0000	7/18/2001	5:30	31.68	62.8	4.61	105.6	6.87	11.4
7/18/2001	54500	0.2083	0.0313	0.0000	7/18/2001	5:45	31.69	61.3	4.5	105.6	6.88	11.4
7/18/2001	60000	0.2500	0.0000	0.0000	7/18/2001	6:00	31.69	61.5	4.51	105.3	6.88	11.4
7/18/2001	61500	0.2500	0.0104	0.0000	7/18/2001	6:15	31.69	61.5	4.51	105.3	6.88	11.4
7/18/2001	63000	0.2500	0.0208	0.0000	7/18/2001	6:30	31.68	61.4	4.51	105.2	6.87	11.4
7/18/2001	64500	0.2500	0.0313	0.0000	7/18/2001	6:45	31.69	59	4.33	105.1	6.88	11.4
7/18/2001	70000	0.2917	0.0000	0.0000	7/18/2001	7:00	31.65	60	4.41	105.4	6.88	11.4
7/18/2001	71500	0.2917	0.0104	0.0000	7/18/2001	7:15	31.68	60.3	4.43	105.2	6.88	11.4
7/18/2001	73000	0.2917	0.0208	0.0000	7/18/2001	7:30	31.65	61.1	4.49	105.6	6.87	11.4
7/18/2001	74500	0.2917	0.0313	0.0000	7/18/2001	7:45	31.63	61.8	4.54	105.3	6.87	11.4
7/18/2001	80000	0.3333	0.0000	0.0000	7/18/2001	8:00	31.64	61.2	4.5	105.1	6.88	11.4
7/18/2001	81500	0.3333	0.0104	0.0000	7/18/2001	8:15	31.63	63.5	4.67	105.3	6.87	11.1
7/18/2001	83000	0.3333	0.0208	0.0000	7/18/2001	8:30	31.63	61.3	4.51	105.1	6.88	11.4
7/18/2001	84500	0.3333	0.0313	0.0000	7/18/2001	8:45	31.63	63.4	4.66	105.1	6.88	11.4

7/18/2001	90000	0.3750	0.0000	0.0000	7/18/2001	9:00	31.62	64.2	4.72	105.7	6.86	11.4
7/18/2001	91500	0.3750	0.0104	0.0000	7/18/2001	9:15	31.62	62.2	4.57	105.7	6.86	11.4
7/18/2001	93000	0.3750	0.0208	0.0000	7/18/2001	9:30	31.63	63.1	4.64	105.8	6.86	11.4
7/18/2001	94500	0.3750	0.0313	0.0000	7/18/2001	9:45	31.67	61.2	4.49	105.6	6.87	11.4
7/18/2001	100000	0.4167	0.0000	0.0000	7/18/2001	10:00	31.67	62.4	4.58	105.7	6.87	11.4
7/18/2001	101500	0.4167	0.0104	0.0000	7/18/2001	10:15	31.66	62.5	4.59	105.6	6.86	11.4
7/18/2001	103000	0.4167	0.0208	0.0000	7/18/2001	10:30	31.69	62.5	4.59	105.7	6.87	11.4
7/18/2001	104500	0.4167	0.0313	0.0000	7/18/2001	10:45	31.77	61.3	4.49	105	6.88	11.4
7/18/2001	110000	0.4583	0.0000	0.0000	7/18/2001	11:00	31.72	63.6	4.66	105.8	6.87	11.4
7/18/2001	111500	0.4583	0.0104	0.0000	7/18/2001	11:15	31.72	66.1	4.85	105.4	6.88	11.4
7/18/2001	113000	0.4583	0.0208	0.0000	7/18/2001	11:30	31.74	62.6	4.59	104.4	6.87	11.4
7/18/2001	114500	0.4583	0.0313	0.0000	7/18/2001	11:45	31.76	63.4	4.64	104.5	6.88	11.4
7/18/2001	120000	0.5000	0.0000	0.0000	7/18/2001	12:00	31.75	63.5	4.65	104.6	6.88	11.1
7/18/2001	121500	0.5000	0.0104	0.0000	7/18/2001	12:15	31.74	65.4	4.8	104.3	6.89	11.1
7/18/2001	123000	0.5000	0.0208	0.0000	7/18/2001	12:30	32.25	65.9	4.79	103.2	6.92	11.1
7/18/2001	124500	0.5000	0.0313	0.0000	7/18/2001	12:45	31.91	70	5.12	104.2	6.93	11.1
7/18/2001	130000	0.5417	0.0000	0.0000	7/18/2001	13:00	32.06	70.7	5.16	103.5	6.94	11.2
7/18/2001	131500	0.5417	0.0104	0.0000	7/18/2001	13:15	32.1	71.7	5.23	103	6.97	11
7/18/2001	133000	0.5417	0.0208	0.0000	7/18/2001	13:30	32.19	75	5.46	102.6	6.96	11.2
7/18/2001	134500	0.5417	0.0313	0.0000	7/18/2001	13:45	32.12	72.5	5.28	102.7	6.96	11.1
7/18/2001	140000	0.5833	0.0000	0.0000	7/18/2001	14:00	32.12	75.1	5.47	102.8	6.97	11.2
7/18/2001	141500	0.5833	0.0104	0.0000	7/18/2001	14:15	32.12	74.3	5.41	102.7	6.98	10.8
7/18/2001	143000	0.5833	0.0208	0.0000	7/18/2001	14:30	32.39	78.6	5.7	102	6.99	10.9
7/18/2001	144500	0.5833	0.0313	0.0000	7/18/2001	14:45	32.16	75	5.46	102.2	6.98	10.8
7/18/2001	150000	0.6250	0.0000	0.0000	7/18/2001	15:00	32.22	78.7	5.73	101.7	6.99	11.1
7/18/2001	151500	0.6250	0.0104	0.0000	7/18/2001	15:15	32.25	77.6	5.65	101.6	7.01	11.4
7/18/2001	153000	0.6250	0.0208	0.0000	7/18/2001	15:30	32.38	77.3	5.61	101.6	7.03	11.1
7/18/2001	154500	0.6250	0.0313	0.0000	7/18/2001	15:45	32.35	78.3	5.68	101.5	7.03	10.9
7/18/2001	160000	0.6667	0.0000	0.0000	7/18/2001	16:00	32.19	76	5.53	101.6	7.04	11.1
7/18/2001	161500	0.6667	0.0104	0.0000	7/18/2001	16:15	32.16	77.4	5.64	101.3	7.01	10.8
7/18/2001	163000	0.6667	0.0208	0.0000	7/18/2001	16:30	32.28	81.9	5.95	101.2	7.04	10.8
7/18/2001	164500	0.6667	0.0313	0.0000	7/18/2001	16:45	32.38	79.7	5.78	101.2	7.09	10.9
7/18/2001	170000	0.7083	0.0000	0.0000	7/18/2001	17:00	32.34	80	5.81	101.1	7.1	10.8
7/18/2001	171500	0.7083	0.0104	0.0000	7/18/2001	17:15	32.46	82	5.94	101	7.07	11
7/18/2001	173000	0.7083	0.0208	0.0000	7/18/2001	17:30	32.71	85	6.13	100.5	7.14	10.4
7/18/2001	174500	0.7083	0.0313	0.0000	7/18/2001	17:45	32.84	86.5	6.23	100.5	7.13	10.8
7/18/2001	180000	0.7500	0.0000	0.0000	7/18/2001	18:00	32.68	85.6	6.18	100.1	7.16	11.1
7/18/2001	181500	0.7500	0.0104	0.0000	7/18/2001	18:15	32.94	87.5	6.29	100.9	7.15	10.9
7/18/2001	183000	0.7500	0.0208	0.0000	7/18/2001	18:30	32.63	85.1	6.15	100.9	7.11	11.4
7/18/2001	184500	0.7500	0.0313	0.0000	7/18/2001	18:45	32.58	83.3	6.03	100.5	6.99	10.8
7/18/2001	190000	0.7917	0.0000	0.0000	7/18/2001	19:00	32.48	81.9	5.93	100.9	7.07	11.3
7/18/2001	191500	0.7917	0.0104	0.0000	7/18/2001	19:15	32.53	81.2	5.88	101.3	7.1	11.2

7/18/2001	193000	0.7917	0.0208	0.0000	7/18/2001 19:30	32.47	81.9	5.93	100.7	7.12	11.1
7/18/2001	194500	0.7917	0.0313	0.0000	7/18/2001 19:45	32.62	84	6.07	100.3	7.11	10.8
7/18/2001	200000	0.8333	0.0000	0.0000	7/18/2001 20:00	32.62	84.8	6.13	100.9	7.12	10.9
7/18/2001	201500	0.8333	0.0104	0.0000	7/18/2001 20:15	32.62	85	6.14	100.7	7.13	11.1
7/18/2001	203000	0.8333	0.0208	0.0000	7/18/2001 20:30	32.55	84.3	6.1	100.8	7.09	11.2
7/18/2001	204500	0.8333	0.0313	0.0000	7/18/2001 20:45	32.42	81.6	5.91	100.7	7.09	11.1
7/18/2001	210000	0.8750	0.0000	0.0000	7/18/2001 21:00	32.46	83.8	6.07	100.6	7.09	11.2
7/18/2001	211500	0.8750	0.0104	0.0000	7/18/2001 21:15	32.53	85	6.15	100.9	7.13	11.3
7/18/2001	213000	0.8750	0.0208	0.0000	7/18/2001 21:30	32.32	80.5	5.84	100.8	7.06	11.3
7/18/2001	214500	0.8750	0.0313	0.0000	7/18/2001 21:45	32.28	79.7	5.79	100.4	7.05	11.3
7/18/2001	220000	0.9167	0.0000	0.0000	7/18/2001 22:00	32.31	80.3	5.84	100.4	7.06	11.2
7/18/2001	221500	0.9167	0.0104	0.0000	7/18/2001 22:15	32.3	80.8	5.87	100.7	7.06	11.3
7/18/2001	223000	0.9167	0.0208	0.0000	7/18/2001 22:30	32.21	77.4	5.63	100.3	7.03	11.2
7/18/2001	224500	0.9167	0.0313	0.0000	7/18/2001 22:45	32.19	75.7	5.51	100.4	7.03	11.3
7/18/2001	230000	0.9583	0.0000	0.0000	7/18/2001 23:00	32.24	77.2	5.61	100.7	7.05	11.3
7/18/2001	231500	0.9583	0.0104	0.0000	7/18/2001 23:15	32.22	76.4	5.56	100.9	7.04	11.3
7/18/2001	233000	0.9583	0.0208	0.0000	7/18/2001 23:30	32.17	77.3	5.62	100.8	7.03	11.3
7/18/2001	234500	0.9583	0.0313	0.0000	7/18/2001 23:45	32.14	74.1	5.4	100.4	7.02	11.3
7/19/2001	0	0.0000	0.0000	0.0000	7/19/2001 0:00	32.12	75.4	5.49	100.6	7	11.2
7/19/2001	1500	0.0000	0.0104	0.0000	7/19/2001 0:15	32.12	74.5	5.43	100.8	7	11.2
7/19/2001	3000	0.0000	0.0208	0.0000	7/19/2001 0:30	32.09	73.1	5.33	101	6.97	11.3
7/19/2001	4500	0.0000	0.0313	0.0000	7/19/2001 0:45	32.09	73.2	5.34	101	6.98	11.2
7/19/2001	10000	0.0417	0.0000	0.0000	7/19/2001 1:00	32.06	72.6	5.29	100.8	6.99	11.2
7/19/2001	11500	0.0417	0.0104	0.0000	7/19/2001 1:15	32.08	73.2	5.34	101.3	6.97	11.3
7/19/2001	13000	0.0417	0.0208	0.0000	7/19/2001 1:30	32.06	71.1	5.19	101.2	6.97	11.3
7/19/2001	14500	0.0417	0.0313	0.0000	7/19/2001 1:45	32.07	70.7	5.16	101.3	6.97	11.2
7/19/2001	20000	0.0833	0.0000	0.0000	7/19/2001 2:00	32.05	70.7	5.16	101.6	6.97	11.2
7/19/2001	21500	0.0833	0.0104	0.0000	7/19/2001 2:15	32.03	73	5.33	101.8	6.97	11.3
7/19/2001	23000	0.0833	0.0208	0.0000	7/19/2001 2:30	31.99	71.9	5.25	101.7	6.96	11.3
7/19/2001	24500	0.0833	0.0313	0.0000	7/19/2001 2:45	32	69.4	5.07	101.5	6.96	11.2
7/19/2001	30000	0.1250	0.0000	0.0000	7/19/2001 3:00	32	70.6	5.16	101.7	6.95	11.2
7/19/2001	31500	0.1250	0.0104	0.0000	7/19/2001 3:15	31.98	69.9	5.1	102	6.95	11.1
7/19/2001	33000	0.1250	0.0208	0.0000	7/19/2001 3:30	31.96	68.9	5.03	101.8	6.94	11.1
7/19/2001	34500	0.1250	0.0313	0.0000	7/19/2001 3:45	31.93	68	4.97	102.2	6.93	11.2
7/19/2001	40000	0.1667	0.0000	0.0000	7/19/2001 4:00	31.92	67.1	4.9	101.9	6.94	11.2
7/19/2001	41500	0.1667	0.0104	0.0000	7/19/2001 4:15	31.9	69.2	5.06	101.6	6.93	11.2
7/19/2001	43000	0.1667	0.0208	0.0000	7/19/2001 4:30	31.9	68.2	4.98	102.3	6.93	11.2
7/19/2001	44500	0.1667	0.0313	0.0000	7/19/2001 4:45	31.89	69.9	5.11	101.9	6.94	11.3
7/19/2001	50000	0.2083	0.0000	0.0000	7/19/2001 5:00	31.89	66.9	4.89	101.8	6.93	11.3
7/19/2001	51500	0.2083	0.0104	0.0000	7/19/2001 5:15	31.85	67.7	4.96	103.1	6.92	11.1
7/19/2001	53000	0.2083	0.0208	0.0000	7/19/2001 5:30	31.86	66.6	4.88	101.9	6.93	11.1
7/19/2001	54500	0.2083	0.0313	0.0000	7/19/2001 5:45	31.88	65.7	4.81	101.5	6.93	11.1

7/19/2001	60000	0.2500	0.0000	0.0000	7/19/2001 6:00	31.86	66.8	4.89	101.6	6.93	11.3
					Maximum	32.94	87.5	6.29	106.7	7.16	11.5
					Average	31.87	69.1	5.05	103.6	6.95	11.3
					Minimum	31.41	59.0	4.33	100.1	6.86	10.4

DataSonde 4a 37752
Log File Name : Ouachita River site 3
Setup Date (MMDDYY) : 071601
Setup Time (HHMMSS) : 083452
Starting Date (MMDDYY) : 071601
Starting Time (HHMMSS) : 180000
Stopping Date (MMDDYY) : 071901
Stopping Time (HHMMSS) : 140000
Interval (HHMMSS) : 001500
Sensor warmup (HHMMSS) : 000200
Circltr warmup (HHMMSS) : 000200

Date MMDDYY	Time HHMMSS				Date & Time	Temp Øc	DO% Sat	DO mg/l	SpCond Æs/cm	Ph Units	Ibatt Volts
7/17/2001	160000	0.6667	0.0000	0.0000	7/17/2001 16:00	31.81	76.9	5.63	85.9	6.7	11.4
7/17/2001	161500	0.6667	0.0104	0.0000	7/17/2001 16:15	31.71	75.1	5.51	85.8	6.7	11.9
7/17/2001	163000	0.6667	0.0208	0.0000	7/17/2001 16:30	31.72	75.4	5.53	85.8	6.7	12
7/17/2001	164500	0.6667	0.0313	0.0000	7/17/2001 16:45	31.75	75.6	5.54	85.8	6.69	12
7/17/2001	170000	0.7083	0.0000	0.0000	7/17/2001 17:00	31.82	78.4	5.74	85.7	6.7	11.8
7/17/2001	171500	0.7083	0.0104	0.0000	7/17/2001 17:15	31.82	78	5.71	85.7	6.7	11.6
7/17/2001	173000	0.7083	0.0208	0.0000	7/17/2001 17:30	31.79	76.3	5.59	85.7	6.69	11.8
7/17/2001	174500	0.7083	0.0313	0.0000	7/17/2001 17:45	31.79	76.2	5.58	85.7	6.69	11.8
7/17/2001	180000	0.7500	0.0000	0.0000	7/17/2001 18:00	31.79	76.6	5.61	85.7	6.69	11.9
7/17/2001	181500	0.7500	0.0104	0.0000	7/17/2001 18:15	31.8	76.2	5.59	85.6	6.69	11.8
7/17/2001	183000	0.7500	0.0208	0.0000	7/17/2001 18:30	31.79	76.2	5.58	85.6	6.69	11.8
7/17/2001	184500	0.7500	0.0313	0.0000	7/17/2001 18:45	31.77	76.3	5.6	85.5	6.68	11.8
7/17/2001	190000	0.7917	0.0000	0.0000	7/17/2001 19:00	31.78	77.1	5.65	85.7	6.69	11.8
7/17/2001	191500	0.7917	0.0104	0.0000	7/17/2001 19:15	31.76	76.4	5.6	85.5	6.69	11.8
7/17/2001	193000	0.7917	0.0208	0.0000	7/17/2001 19:30	31.8	79.9	5.86	85.4	6.68	11.4
7/17/2001	194500	0.7917	0.0313	0.0000	7/17/2001 19:45	31.82	78.7	5.76	85.4	6.7	11.8
7/17/2001	200000	0.8333	0.0000	0.0000	7/17/2001 20:00	31.78	76.4	5.6	85.4	6.68	11.8
7/17/2001	201500	0.8333	0.0104	0.0000	7/17/2001 20:15	31.76	76.7	5.62	85.5	6.69	11.8
7/17/2001	203000	0.8333	0.0208	0.0000	7/17/2001 20:30	31.8	78.9	5.78	85.1	6.69	11.8
7/17/2001	204500	0.8333	0.0313	0.0000	7/17/2001 20:45	31.81	78.1	5.72	85	6.69	11.8
7/17/2001	210000	0.8750	0.0000	0.0000	7/17/2001 21:00	31.83	79.7	5.84	84.9	6.7	11.9
7/17/2001	211500	0.8750	0.0104	0.0000	7/17/2001 21:15	31.82	77.9	5.71	84.9	6.71	11.9
7/17/2001	213000	0.8750	0.0208	0.0000	7/17/2001 21:30	31.84	79.8	5.85	84.8	6.73	11.8
7/17/2001	214500	0.8750	0.0313	0.0000	7/17/2001 21:45	31.81	79.5	5.82	84.9	6.71	11.8
7/17/2001	220000	0.9167	0.0000	0.0000	7/17/2001 22:00	31.77	78.7	5.77	85.1	6.69	11.9
7/17/2001	221500	0.9167	0.0104	0.0000	7/17/2001 22:15	31.75	78.7	5.77	85.1	6.7	11.9

7/17/2001	223000	0.9167	0.0208	0.0000	7/17/2001 22:30	31.75	78.7	5.77	85.1	6.69	11.9
7/17/2001	224500	0.9167	0.0313	0.0000	7/17/2001 22:45	31.73	78.1	5.73	85.1	6.69	11.9
7/17/2001	230000	0.9583	0.0000	0.0000	7/17/2001 23:00	31.73	78.3	5.75	85.1	6.69	11.9
7/17/2001	231500	0.9583	0.0104	0.0000	7/17/2001 23:15	31.72	78.2	5.74	85.2	6.69	11.9
7/17/2001	233000	0.9583	0.0208	0.0000	7/17/2001 23:30	31.71	78.4	5.75	85.1	6.69	11.9
7/17/2001	234500	0.9583	0.0313	0.0000	7/17/2001 23:45	31.71	78.3	5.74	85.1	6.68	11.9
7/18/2001	0	0.0000	0.0000	0.0000	7/18/2001 0:00	31.68	75.9	5.57	85	6.68	11.9
7/18/2001	1500	0.0000	0.0104	0.0000	7/18/2001 0:15	31.66	75.2	5.52	85.2	6.68	11.8
7/18/2001	3000	0.0000	0.0208	0.0000	7/18/2001 0:30	31.64	74.1	5.44	85	6.67	11.9
7/18/2001	4500	0.0000	0.0313	0.0000	7/18/2001 0:45	31.62	74.6	5.48	85	6.68	11.9
7/18/2001	10000	0.0417	0.0000	0.0000	7/18/2001 1:00	31.62	73.6	5.41	84.9	6.66	11.9
7/18/2001	11500	0.0417	0.0104	0.0000	7/18/2001 1:15	31.6	73.2	5.38	85.1	6.67	11.8
7/18/2001	13000	0.0417	0.0208	0.0000	7/18/2001 1:30	31.6	72.9	5.36	85	6.65	11.9
7/18/2001	14500	0.0417	0.0313	0.0000	7/18/2001 1:45	31.58	73.4	5.4	84.8	6.67	11.9
7/18/2001	20000	0.0833	0.0000	0.0000	7/18/2001 2:00	31.57	72.9	5.37	84.8	6.66	11.9
7/18/2001	21500	0.0833	0.0104	0.0000	7/18/2001 2:15	31.57	72.9	5.36	85	6.65	11.9
7/18/2001	23000	0.0833	0.0208	0.0000	7/18/2001 2:30	31.56	72.5	5.33	85.1	6.66	11.9
7/18/2001	24500	0.0833	0.0313	0.0000	7/18/2001 2:45	31.55	72.2	5.32	85.2	6.66	11.9
7/18/2001	30000	0.1250	0.0000	0.0000	7/18/2001 3:00	31.54	72.6	5.35	85.4	6.66	11.8
7/18/2001	31500	0.1250	0.0104	0.0000	7/18/2001 3:15	31.54	72	5.29	85.2	6.65	11.8
7/18/2001	33000	0.1250	0.0208	0.0000	7/18/2001 3:30	31.55	73	5.37	85.2	6.66	11.9
7/18/2001	34500	0.1250	0.0313	0.0000	7/18/2001 3:45	31.54	72.7	5.35	85.4	6.67	11.9
7/18/2001	40000	0.1667	0.0000	0.0000	7/18/2001 4:00	31.53	72.1	5.3	85.4	6.66	11.9
7/18/2001	41500	0.1667	0.0104	0.0000	7/18/2001 4:15	31.52	71.8	5.29	85.5	6.66	11.9
7/18/2001	43000	0.1667	0.0208	0.0000	7/18/2001 4:30	31.51	72	5.3	85.5	6.66	11.9
7/18/2001	44500	0.1667	0.0313	0.0000	7/18/2001 4:45	31.5	72	5.3	85.6	6.66	11.9
7/18/2001	50000	0.2083	0.0000	0.0000	7/18/2001 5:00	31.52	71.7	5.28	86	6.65	11.8
7/18/2001	51500	0.2083	0.0104	0.0000	7/18/2001 5:15	31.5	71.9	5.29	86.2	6.66	11.8
7/18/2001	53000	0.2083	0.0208	0.0000	7/18/2001 5:30	31.5	71.5	5.26	86.3	6.65	11.8
7/18/2001	54500	0.2083	0.0313	0.0000	7/18/2001 5:45	31.51	71.6	5.27	86.2	6.66	11.9
7/18/2001	60000	0.2500	0.0000	0.0000	7/18/2001 6:00	31.5	71.3	5.25	86.3	6.65	11.9
7/18/2001	61500	0.2500	0.0104	0.0000	7/18/2001 6:15	31.5	71.3	5.25	86.3	6.67	11.9
7/18/2001	63000	0.2500	0.0208	0.0000	7/18/2001 6:30	31.5	71.1	5.24	86.4	6.66	11.8
7/18/2001	64500	0.2500	0.0313	0.0000	7/18/2001 6:45	31.49	71.5	5.26	86.6	6.66	11.8
7/18/2001	70000	0.2917	0.0000	0.0000	7/18/2001 7:00	31.48	71.3	5.25	86.9	6.66	11.9
7/18/2001	71500	0.2917	0.0104	0.0000	7/18/2001 7:15	31.47	71.1	5.24	86.9	6.67	11.9
7/18/2001	73000	0.2917	0.0208	0.0000	7/18/2001 7:30	31.48	71.4	5.26	87	6.65	11.8
7/18/2001	74500	0.2917	0.0313	0.0000	7/18/2001 7:45	31.48	70.9	5.23	86.9	6.66	11.9
7/18/2001	80000	0.3333	0.0000	0.0000	7/18/2001 8:00	31.48	71	5.23	86.9	6.66	11.9
7/18/2001	81500	0.3333	0.0104	0.0000	7/18/2001 8:15	31.48	70.9	5.22	87.1	6.66	11.8
7/18/2001	83000	0.3333	0.0208	0.0000	7/18/2001 8:30	31.48	70.3	5.18	87.1	6.65	11.7
7/18/2001	84500	0.3333	0.0313	0.0000	7/18/2001 8:45	31.49	70.6	5.2	87.1	6.66	11.8

7/18/2001	90000	0.3750	0.0000	0.0000	7/18/2001 9:00	31.48	71	5.23	87.3	6.66	11.9
7/18/2001	91500	0.3750	0.0104	0.0000	7/18/2001 9:15	31.5	71.1	5.24	87.4	6.67	11.8
7/18/2001	93000	0.3750	0.0208	0.0000	7/18/2001 9:30	31.62	72.9	5.36	87.7	6.67	11.8
7/18/2001	94500	0.3750	0.0313	0.0000	7/18/2001 9:45	31.58	72.6	5.34	87.8	6.68	11.8
7/18/2001	100000	0.4167	0.0000	0.0000	7/18/2001 10:00	31.58	73.2	5.39	88.1	6.68	11.9
7/18/2001	101500	0.4167	0.0104	0.0000	7/18/2001 10:15	31.61	73.8	5.42	87.9	6.68	11.9
7/18/2001	103000	0.4167	0.0208	0.0000	7/18/2001 10:30	31.58	71.6	5.27	87.9	6.67	11.8
7/18/2001	104500	0.4167	0.0313	0.0000	7/18/2001 10:45	31.71	74.1	5.44	88.2	6.7	11.9
7/18/2001	110000	0.4583	0.0000	0.0000	7/18/2001 11:00	31.86	76.1	5.57	88.2	6.71	11.9
7/18/2001	111500	0.4583	0.0104	0.0000	7/18/2001 11:15	31.75	75.2	5.52	88.6	6.7	11.8
7/18/2001	113000	0.4583	0.0208	0.0000	7/18/2001 11:30	31.82	76.2	5.58	88.5	6.7	11.9
7/18/2001	114500	0.4583	0.0313	0.0000	7/18/2001 11:45	32.06	79.3	5.78	88.6	6.73	11.9
7/18/2001	120000	0.5000	0.0000	0.0000	7/18/2001 12:00	32.2	81.4	5.92	88.6	6.75	11.9
7/18/2001	121500	0.5000	0.0104	0.0000	7/18/2001 12:15	32.1	79.3	5.78	88.6	6.73	11.9
7/18/2001	123000	0.5000	0.0208	0.0000	7/18/2001 12:30	32.07	79.7	5.81	88.6	6.73	11.8
7/18/2001	124500	0.5000	0.0313	0.0000	7/18/2001 12:45	32.1	78.8	5.75	88.6	6.74	11.8
7/18/2001	130000	0.5417	0.0000	0.0000	7/18/2001 13:00	32.27	80.1	5.82	88.6	6.74	11.9
7/18/2001	131500	0.5417	0.0104	0.0000	7/18/2001 13:15	32	76.7	5.6	89	6.72	11.9
7/18/2001	133000	0.5417	0.0208	0.0000	7/18/2001 13:30	31.92	75.6	5.53	88.9	6.71	11.9
7/18/2001	134500	0.5417	0.0313	0.0000	7/18/2001 13:45	32.5	83.9	6.08	89.1	6.77	11.9
7/18/2001	140000	0.5833	0.0000	0.0000	7/18/2001 14:00	32.67	85	6.14	89.3	6.79	11.4
7/18/2001	141500	0.5833	0.0104	0.0000	7/18/2001 14:15	32.83	84.1	6.06	89.1	6.78	11.8
7/18/2001	143000	0.5833	0.0208	0.0000	7/18/2001 14:30	32.73	85.8	6.18	89.2	6.81	11.9
7/18/2001	144500	0.5833	0.0313	0.0000	7/18/2001 14:45	32.76	87.7	6.32	89.4	6.82	11.8
7/18/2001	150000	0.6250	0.0000	0.0000	7/18/2001 15:00	32.97	92.7	6.66	89.5	6.87	11.8
7/18/2001	151500	0.6250	0.0104	0.0000	7/18/2001 15:15	32.88	91.1	6.55	89.5	6.85	11.8
7/18/2001	153000	0.6250	0.0208	0.0000	7/18/2001 15:30	32.63	87.2	6.3	89.8	6.8	11.4
7/18/2001	154500	0.6250	0.0313	0.0000	7/18/2001 15:45	32.58	87.5	6.33	89.9	6.8	11.8
7/18/2001	160000	0.6667	0.0000	0.0000	7/18/2001 16:00	32.51	85.5	6.19	90	6.78	11.9
7/18/2001	161500	0.6667	0.0104	0.0000	7/18/2001 16:15	32.83	90.4	6.51	89.8	6.83	11.7
7/18/2001	163000	0.6667	0.0208	0.0000	7/18/2001 16:30	32.84	90.9	6.54	90	6.82	11.4
7/18/2001	164500	0.6667	0.0313	0.0000	7/18/2001 16:45	32.73	90.5	6.53	90.2	6.82	11.6
7/18/2001	170000	0.7083	0.0000	0.0000	7/18/2001 17:00	32.64	87.3	6.31	90.2	6.81	11.9
7/18/2001	171500	0.7083	0.0104	0.0000	7/18/2001 17:15	32.79	90.8	6.54	90.2	6.83	11.5
7/18/2001	173000	0.7083	0.0208	0.0000	7/18/2001 17:30	32.69	89.6	6.47	90.1	6.81	11.8
7/18/2001	174500	0.7083	0.0313	0.0000	7/18/2001 17:45	32.52	88	6.37	90.7	6.8	11.8
7/18/2001	180000	0.7500	0.0000	0.0000	7/18/2001 18:00	32.75	91.8	6.62	90.8	6.85	11.5
7/18/2001	181500	0.7500	0.0104	0.0000	7/18/2001 18:15	32.7	91.4	6.6	90.7	6.84	11.5
7/18/2001	183000	0.7500	0.0208	0.0000	7/18/2001 18:30	32.62	90.5	6.54	90.8	6.85	11.8
7/18/2001	184500	0.7500	0.0313	0.0000	7/18/2001 18:45	32.65	91	6.57	90.7	6.85	11.8
7/18/2001	190000	0.7917	0.0000	0.0000	7/18/2001 19:00	32.5	88.1	6.38	90.5	6.82	11.8
7/18/2001	191500	0.7917	0.0104	0.0000	7/18/2001 19:15	32.56	89.8	6.5	90.6	6.85	11.7

7/18/2001	193000	0.7917	0.0208	0.0000	7/18/2001 19:30	32.47	88.6	6.42	90.7	6.83	11.8
7/18/2001	194500	0.7917	0.0313	0.0000	7/18/2001 19:45	32.34	88	6.39	90.8	6.78	11.4
7/18/2001	200000	0.8333	0.0000	0.0000	7/18/2001 20:00	32.34	88.4	6.42	91	6.83	11.7
7/18/2001	201500	0.8333	0.0104	0.0000	7/18/2001 20:15	32.31	88.7	6.45	90.9	6.83	11.8
7/18/2001	203000	0.8333	0.0208	0.0000	7/18/2001 20:30	32.26	87.4	6.35	90.9	6.8	11.4
7/18/2001	204500	0.8333	0.0313	0.0000	7/18/2001 20:45	32.25	86.7	6.3	90.9	6.81	11.8
7/18/2001	210000	0.8750	0.0000	0.0000	7/18/2001 21:00	32.29	88.7	6.44	90.9	6.84	11.8
7/18/2001	211500	0.8750	0.0104	0.0000	7/18/2001 21:15	32.28	90.6	6.58	90.8	6.85	11.8
7/18/2001	213000	0.8750	0.0208	0.0000	7/18/2001 21:30	32.26	90.3	6.56	90.8	6.84	11.8
7/18/2001	214500	0.8750	0.0313	0.0000	7/18/2001 21:45	32.21	89.5	6.51	91	6.84	11.8
7/18/2001	220000	0.9167	0.0000	0.0000	7/18/2001 22:00	32.2	89.4	6.51	90.9	6.83	11.8
7/18/2001	221500	0.9167	0.0104	0.0000	7/18/2001 22:15	32.15	88.9	6.48	90.8	6.83	11.8
7/18/2001	223000	0.9167	0.0208	0.0000	7/18/2001 22:30	32.14	88.3	6.43	90.8	6.82	11.8
7/18/2001	224500	0.9167	0.0313	0.0000	7/18/2001 22:45	32.11	86.9	6.33	90.8	6.82	11.8
7/18/2001	230000	0.9583	0.0000	0.0000	7/18/2001 23:00	32.08	86.2	6.28	90.7	6.82	11.8
7/18/2001	231500	0.9583	0.0104	0.0000	7/18/2001 23:15	32.02	85.1	6.21	90.8	6.81	11.8
7/18/2001	233000	0.9583	0.0208	0.0000	7/18/2001 23:30	31.98	84	6.13	90.7	6.81	11.8
7/18/2001	234500	0.9583	0.0313	0.0000	7/18/2001 23:45	31.98	85.7	6.26	90.7	6.81	11.8
7/19/2001	0	0.0000	0.0000	0.0000	7/19/2001 0:00	31.95	84.2	6.15	90.8	6.79	11.8
7/19/2001	1500	0.0000	0.0104	0.0000	7/19/2001 0:15	31.96	85.5	6.25	90.8	6.8	11.8
7/19/2001	3000	0.0000	0.0208	0.0000	7/19/2001 0:30	31.91	83.1	6.08	90.9	6.8	11.8
7/19/2001	4500	0.0000	0.0313	0.0000	7/19/2001 0:45	31.92	83.6	6.11	90.9	6.8	11.8
7/19/2001	10000	0.0417	0.0000	0.0000	7/19/2001 1:00	31.89	82.6	6.05	91	6.79	11.8
7/19/2001	11500	0.0417	0.0104	0.0000	7/19/2001 1:15	31.89	82.3	6.02	91	6.78	11.8
7/19/2001	13000	0.0417	0.0208	0.0000	7/19/2001 1:30	31.84	82.4	6.04	90.7	6.78	11.8
7/19/2001	14500	0.0417	0.0313	0.0000	7/19/2001 1:45	31.8	80.8	5.92	90.8	6.79	11.8
7/19/2001	20000	0.0833	0.0000	0.0000	7/19/2001 2:00	31.74	80.2	5.88	90.5	6.76	11.8
7/19/2001	21500	0.0833	0.0104	0.0000	7/19/2001 2:15	31.69	76.4	5.61	90.4	6.73	11.8
7/19/2001	23000	0.0833	0.0208	0.0000	7/19/2001 2:30	31.67	74.8	5.5	90.5	6.74	11.8
7/19/2001	24500	0.0833	0.0313	0.0000	7/19/2001 2:45	31.66	73.7	5.41	90.7	6.73	11.8
7/19/2001	30000	0.1250	0.0000	0.0000	7/19/2001 3:00	31.65	73.4	5.39	90.5	6.74	11.8
7/19/2001	31500	0.1250	0.0104	0.0000	7/19/2001 3:15	31.65	75.2	5.52	90.7	6.74	11.8
7/19/2001	33000	0.1250	0.0208	0.0000	7/19/2001 3:30	31.65	77.2	5.67	90.5	6.77	11.8
7/19/2001	34500	0.1250	0.0313	0.0000	7/19/2001 3:45	31.63	76.9	5.65	90.5	6.76	11.8
7/19/2001	40000	0.1667	0.0000	0.0000	7/19/2001 4:00	31.61	76.3	5.6	90.5	6.76	11.8
7/19/2001	41500	0.1667	0.0104	0.0000	7/19/2001 4:15	31.55	78	5.74	90.4	6.76	11.8
7/19/2001	43000	0.1667	0.0208	0.0000	7/19/2001 4:30	31.55	77.9	5.73	90.6	6.76	11.8
7/19/2001	44500	0.1667	0.0313	0.0000	7/19/2001 4:45	31.54	77.2	5.68	90.4	6.76	11.8
7/19/2001	50000	0.2083	0.0000	0.0000	7/19/2001 5:00	31.53	77.3	5.69	90.6	6.76	11.8
7/19/2001	51500	0.2083	0.0104	0.0000	7/19/2001 5:15	31.52	75.8	5.58	90.5	6.76	11.8
7/19/2001	53000	0.2083	0.0208	0.0000	7/19/2001 5:30	31.51	74.4	5.48	90.5	6.75	11.8
7/19/2001	54500	0.2083	0.0313	0.0000	7/19/2001 5:45	31.47	75.3	5.55	90.4	6.74	11.8

7/19/2001	60000	0.2500	0.0000	0.0000	7/19/2001 6:00	31.47	75.1	5.53	90.5	6.74	11.8
7/19/2001	61500	0.2500	0.0104	0.0000	7/19/2001 6:15	31.45	74.2	5.47	90.3	6.74	11.8
					Maximum	32.97	92.7	6.66	91.0	6.87	12.0
					Average	31.90	79.1	5.78	88.1	6.73	11.8
					Minimum	31.45	70.3	5.18	84.8	6.65	11.4

DataSonde 4a 37753
Log File Name : Ouachita River Site 4
Setup Date (MMDDYY) : 071601
Setup Time (HHMMSS) : 085006
Starting Date (MMDDYY) : 071601
Starting Time (HHMMSS) : 180000
Stopping Date (MMDDYY) : 071901
Stopping Time (HHMMSS) : 140000
Interval (HHMMSS) : 001500
Sensor warmup (HHMMSS) : 000200
Circltr warmup (HHMMSS) : 000200

Date MMDDYY	Time HHMMSS				Date & Time	Temp Øc	DO% Sat	DO mg/l	SpCond Æs/cm	Ph Units	Ibatt Volts
7/17/2001	160000	0.6667	0.0000	0.0000	7/17/2001 16:00	32.1	69.7	5.08	117.1	6.81	10.6
7/17/2001	161500	0.6667	0.0104	0.0000	7/17/2001 16:15	32.32	79	5.73	117.2	6.87	10.7
7/17/2001	163000	0.6667	0.0208	0.0000	7/17/2001 16:30	32.27	76.2	5.54	117	6.82	10.6
7/17/2001	164500	0.6667	0.0313	0.0000	7/17/2001 16:45	32.36	79	5.73	117	6.9	10.6
7/17/2001	170000	0.7083	0.0000	0.0000	7/17/2001 17:00	32.36	78.4	5.69	117	6.9	10.6
7/17/2001	171500	0.7083	0.0104	0.0000	7/17/2001 17:15	32.41	80.3	5.82	117	6.94	10.6
7/17/2001	173000	0.7083	0.0208	0.0000	7/17/2001 17:30	32.41	80	5.8	117	6.96	10.7
7/17/2001	174500	0.7083	0.0313	0.0000	7/17/2001 17:45	32.52	83.6	6.05	117	6.95	10.6
7/17/2001	180000	0.7500	0.0000	0.0000	7/17/2001 18:00	32.64	89	6.43	117	7.02	10.5
7/17/2001	181500	0.7500	0.0104	0.0000	7/17/2001 18:15	32.49	79.6	5.77	117	6.93	10.6
7/17/2001	183000	0.7500	0.0208	0.0000	7/17/2001 18:30	32.79	93.5	6.74	116.9	7.14	10.6
7/17/2001	184500	0.7500	0.0313	0.0000	7/17/2001 18:45	32.8	97.1	6.99	117.2	7.16	10.5
7/17/2001	190000	0.7917	0.0000	0.0000	7/17/2001 19:00	32.65	93.4	6.75	117.2	7.13	10.6
7/17/2001	191500	0.7917	0.0104	0.0000	7/17/2001 19:15	32.45	87.4	6.34	117.4	7.02	10.5
7/17/2001	193000	0.7917	0.0208	0.0000	7/17/2001 19:30	32.54	92.8	6.71	117.5	7.11	10.5
7/17/2001	194500	0.7917	0.0313	0.0000	7/17/2001 19:45	32.3	83.5	6.07	117.4	6.99	10.5
7/17/2001	200000	0.8333	0.0000	0.0000	7/17/2001 20:00	32.35	85.7	6.22	117.2	7	10.5
7/17/2001	201500	0.8333	0.0104	0.0000	7/17/2001 20:15	32.27	86.7	6.3	117.8	6.99	10.5
7/17/2001	203000	0.8333	0.0208	0.0000	7/17/2001 20:30	32.19	84	6.12	117.7	6.98	10.6
7/17/2001	204500	0.8333	0.0313	0.0000	7/17/2001 20:45	32.09	79.9	5.83	117.7	6.93	10.6
7/17/2001	210000	0.8750	0.0000	0.0000	7/17/2001 21:00	32.02	80.6	5.88	118	6.93	10.5
7/17/2001	211500	0.8750	0.0104	0.0000	7/17/2001 21:15	31.99	78.9	5.76	118	6.91	10.6
7/17/2001	213000	0.8750	0.0208	0.0000	7/17/2001 21:30	31.92	76.1	5.56	118.1	6.87	10.5
7/17/2001	214500	0.8750	0.0313	0.0000	7/17/2001 21:45	31.86	75.3	5.51	118.1	6.86	10.5
7/17/2001	220000	0.9167	0.0000	0.0000	7/17/2001 22:00	31.79	73.7	5.4	118.2	6.84	10.4
7/17/2001	221500	0.9167	0.0104	0.0000	7/17/2001 22:15	31.75	72.6	5.32	118	6.83	10.4

7/17/2001	223000	0.9167	0.0208	0.0000	7/17/2001 22:30	31.71	68.5	5.03	117.8	6.8	10.4
7/17/2001	224500	0.9167	0.0313	0.0000	7/17/2001 22:45	31.72	68.9	5.05	117.7	6.8	10.4
7/17/2001	230000	0.9583	0.0000	0.0000	7/17/2001 23:00	31.68	67.5	4.96	117.5	6.79	10.4
7/17/2001	231500	0.9583	0.0104	0.0000	7/17/2001 23:15	31.65	67.4	4.95	117.6	6.78	10.4
7/17/2001	233000	0.9583	0.0208	0.0000	7/17/2001 23:30	31.62	66.8	4.91	118	6.78	10.4
7/17/2001	234500	0.9583	0.0313	0.0000	7/17/2001 23:45	31.59	66.2	4.87	117.8	6.78	10.3
7/18/2001	0	0.0000	0.0000	0.0000	7/18/2001 0:00	31.58	65.4	4.81	118.1	6.75	10.4
7/18/2001	1500	0.0000	0.0104	0.0000	7/18/2001 0:15	31.57	65.3	4.8	117.9	6.76	10.4
7/18/2001	3000	0.0000	0.0208	0.0000	7/18/2001 0:30	31.54	64.3	4.73	118.4	6.74	10.4
7/18/2001	4500	0.0000	0.0313	0.0000	7/18/2001 0:45	31.52	64	4.71	118.5	6.74	10.4
7/18/2001	10000	0.0417	0.0000	0.0000	7/18/2001 1:00	31.54	64.9	4.77	118.9	6.75	10.1
7/18/2001	11500	0.0417	0.0104	0.0000	7/18/2001 1:15	31.51	64.3	4.73	118.8	6.75	10.1
7/18/2001	13000	0.0417	0.0208	0.0000	7/18/2001 1:30	31.51	64.1	4.72	118.8	6.74	9.8
7/18/2001	14500	0.0417	0.0313	0.0000	7/18/2001 1:45	31.5	62.6	4.61	118.9	6.73	9.7
7/18/2001	20000	0.0833	0.0000	0.0000	7/18/2001 2:00	31.48	62.1	4.58	119.1	6.73	9.7
7/18/2001	21500	0.0833	0.0104	0.0000	7/18/2001 2:15	31.47	62.3	4.59	119.1	6.73	9
7/18/2001	23000	0.0833	0.0208	0.0000	7/18/2001 2:30	31.47	63	4.64	119.7	6.73	8.5
7/18/2001	24500	0.0833	0.0313	0.0000	7/18/2001 2:45	31.47	63	4.64	119.7	6.73	8.6
7/18/2001	30000	0.1250	0.0000	0.0000	7/18/2001 3:00	31.47	63.3	4.66	119.8	6.73	8.5
7/18/2001	31500	0.1250	0.0104	0.0000	7/18/2001 3:15	31.47	63.2	4.66	119.8	6.73	8.5
7/18/2001	33000	0.1250	0.0208	0.0000	7/18/2001 3:30	31.45	63.1	4.65	119.8	6.73	8.6
7/18/2001	34500	0.1250	0.0313	0.0000	7/18/2001 3:45	31.47	63.1	4.65	120.1	6.73	8.6
7/18/2001	40000	0.1667	0.0000	0.0000	7/18/2001 4:00	31.45	63.2	4.66	120	6.74	8.6
7/18/2001	41500	0.1667	0.0104	0.0000	7/18/2001 4:15	31.48	64.2	4.73	120.3	6.74	8.6
7/18/2001	43000	0.1667	0.0208	0.0000	7/18/2001 4:30	31.47	63.9	4.71	120.2	6.74	8.6
7/18/2001	44500	0.1667	0.0313	0.0000	7/18/2001 4:45	31.47	64.5	4.75	120.2	6.75	8.6
7/18/2001	50000	0.2083	0.0000	0.0000	7/18/2001 5:00	31.49	64.4	4.74	120.1	6.74	8.5
7/18/2001	51500	0.2083	0.0104	0.0000	7/18/2001 5:15	31.47	64.9	4.78	120.3	6.75	8.5
7/18/2001	53000	0.2083	0.0208	0.0000	7/18/2001 5:30	31.48	64.2	4.73	120.5	6.75	8.6
7/18/2001	54500	0.2083	0.0313	0.0000	7/18/2001 5:45	31.47	63.7	4.69	120.4	6.74	8.6
7/18/2001	60000	0.2500	0.0000	0.0000	7/18/2001 6:00	31.46	63.1	4.65	120.7	6.73	8.6
7/18/2001	61500	0.2500	0.0104	0.0000	7/18/2001 6:15	31.45	62.3	4.59	120.7	6.73	8.6
7/18/2001	63000	0.2500	0.0208	0.0000	7/18/2001 6:30	31.44	62.3	4.59	120.7	6.72	8.6
7/18/2001	64500	0.2500	0.0313	0.0000	7/18/2001 6:45	31.44	61.9	4.57	120.5	6.72	8.6
7/18/2001	70000	0.2917	0.0000	0.0000	7/18/2001 7:00	31.44	61.6	4.54	120.5	6.72	8.6
7/18/2001	71500	0.2917	0.0104	0.0000	7/18/2001 7:15	31.42	62	4.57	120.5	6.72	8.6
7/18/2001	73000	0.2917	0.0208	0.0000	7/18/2001 7:30	31.41	61.6	4.54	120.5	6.72	8.5
7/18/2001	74500	0.2917	0.0313	0.0000	7/18/2001 7:45	31.42	62	4.57	120.6	6.72	8.6
7/18/2001	80000	0.3333	0.0000	0.0000	7/18/2001 8:00	31.41	61.7	4.55	120.6	6.72	8.6
7/18/2001	81500	0.3333	0.0104	0.0000	7/18/2001 8:15	31.42	62	4.57	120.7	6.72	8.6
7/18/2001	83000	0.3333	0.0208	0.0000	7/18/2001 8:30	31.46	62.4	4.6	120.7	6.72	8.5
7/18/2001	84500	0.3333	0.0313	0.0000	7/18/2001 8:45	31.45	61.7	4.55	120.7	6.71	8.5

7/18/2001	90000	0.3750	0.0000	0.0000	7/18/2001 9:00	31.47	61.5	4.53	120.6	6.72	8.6
7/18/2001	91500	0.3750	0.0104	0.0000	7/18/2001 9:15	31.49	61.6	4.54	120.8	6.72	8.6
7/18/2001	93000	0.3750	0.0208	0.0000	7/18/2001 9:30	31.49	61.6	4.54	120.6	6.72	8.6
7/18/2001	94500	0.3750	0.0313	0.0000	7/18/2001 9:45	31.53	62.1	4.57	120.6	6.72	8.6
7/18/2001	100000	0.4167	0.0000	0.0000	7/18/2001 10:00	31.53	61.7	4.54	120.6	6.72	8.6
7/18/2001	101500	0.4167	0.0104	0.0000	7/18/2001 10:15	31.54	61.7	4.54	120.7	6.72	8.6
7/18/2001	103000	0.4167	0.0208	0.0000	7/18/2001 10:30	31.56	61.6	4.53	120.7	6.72	8.6
7/18/2001	104500	0.4167	0.0313	0.0000	7/18/2001 10:45	31.54	61.1	4.5	120.8	6.71	8.6
7/18/2001	110000	0.4583	0.0000	0.0000	7/18/2001 11:00	31.51	61	4.49	120.5	6.71	8.7
7/18/2001	111500	0.4583	0.0104	0.0000	7/18/2001 11:15	31.56	61	4.49	120.8	6.71	8.6
7/18/2001	113000	0.4583	0.0208	0.0000	7/18/2001 11:30	31.57	61.1	4.49	120.7	6.71	8.6
7/18/2001	114500	0.4583	0.0313	0.0000	7/18/2001 11:45	31.59	61.5	4.52	120.6	6.71	8.6
7/18/2001	120000	0.5000	0.0000	0.0000	7/18/2001 12:00	31.73	63.5	4.66	120.7	6.73	8.6
7/18/2001	121500	0.5000	0.0104	0.0000	7/18/2001 12:15	31.73	63.5	4.65	120.7	6.72	8.6
7/18/2001	123000	0.5000	0.0208	0.0000	7/18/2001 12:30	32.39	72.1	5.23	120.4	6.79	8.6
7/18/2001	124500	0.5000	0.0313	0.0000	7/18/2001 12:45	32.17	68.7	5	120.5	6.78	8.7
7/18/2001	130000	0.5417	0.0000	0.0000	7/18/2001 13:00	32.32	70.6	5.13	120.5	6.78	8.6
7/18/2001	131500	0.5417	0.0104	0.0000	7/18/2001 13:15	32.07	67.1	4.89	120.5	6.75	8.6
7/18/2001	133000	0.5417	0.0208	0.0000	7/18/2001 13:30	31.72	62.5	4.58	120.6	6.72	8.7
7/18/2001	134500	0.5417	0.0313	0.0000	7/18/2001 13:45	31.68	62.5	4.59	120.4	6.72	8.7
7/18/2001	140000	0.5833	0.0000	0.0000	7/18/2001 14:00	31.61	60.8	4.47	120.1	6.71	8.7
7/18/2001	141500	0.5833	0.0104	0.0000	7/18/2001 14:15	31.75	62.8	4.6	120.4	6.73	8.6
7/18/2001	143000	0.5833	0.0208	0.0000	7/18/2001 14:30	32.7	76.1	5.49	120.1	6.81	8.6
7/18/2001	144500	0.5833	0.0313	0.0000	7/18/2001 14:45	32.08	67.9	4.95	120.5	6.75	8.6
7/18/2001	150000	0.6250	0.0000	0.0000	7/18/2001 15:00	32.18	65.4	4.76	120.1	6.74	8.6
7/18/2001	151500	0.6250	0.0104	0.0000	7/18/2001 15:15	32.47	74.1	5.37	119.9	6.83	8.6
7/18/2001	153000	0.6250	0.0208	0.0000	7/18/2001 15:30	31.84	63.8	4.67	120.1	6.73	8.7
7/18/2001	154500	0.6250	0.0313	0.0000	7/18/2001 15:45	31.57	59.8	4.4	120.3	6.69	8.6
7/18/2001	160000	0.6667	0.0000	0.0000	7/18/2001 16:00	31.81	63.1	4.62	119.8	6.72	8.7
7/18/2001	161500	0.6667	0.0104	0.0000	7/18/2001 16:15	31.65	61	4.48	120.1	6.7	8.6
7/18/2001	163000	0.6667	0.0208	0.0000	7/18/2001 16:30	31.81	63.1	4.62	120	6.71	8.6
7/18/2001	164500	0.6667	0.0313	0.0000	7/18/2001 16:45	31.67	61.3	4.5	120.3	6.71	8.6
7/18/2001	170000	0.7083	0.0000	0.0000	7/18/2001 17:00	32.09	69.6	5.07	120	6.77	8.6
7/18/2001	171500	0.7083	0.0104	0.0000	7/18/2001 17:15	31.92	65.2	4.77	119.8	6.75	8.6
7/18/2001	173000	0.7083	0.0208	0.0000	7/18/2001 17:30	31.89	64.7	4.74	119.6	6.75	8.6
7/18/2001	174500	0.7083	0.0313	0.0000	7/18/2001 17:45	33.27	91.2	6.52	118.7	7	8.6
7/18/2001	180000	0.7500	0.0000	0.0000	7/18/2001 18:00	33.12	88.1	6.31	118.5	6.99	8.6
7/18/2001	181500	0.7500	0.0104	0.0000	7/18/2001 18:15	31.76	62.1	4.55	119.6	6.72	8.7
7/18/2001	183000	0.7500	0.0208	0.0000	7/18/2001 18:30	31.86	62.5	4.58	119.8	6.71	8.7
7/18/2001	184500	0.7500	0.0313	0.0000	7/18/2001 18:45	33.31	91.2	6.52	118.6	7.03	8.6
7/18/2001	190000	0.7917	0.0000	0.0000	7/18/2001 19:00	33.83	107.9	7.64	117.9	7.43	8.6
7/18/2001	191500	0.7917	0.0104	0.0000	7/18/2001 19:15	33.83	110.1	7.8	117.6	7.52	8.7

7/18/2001	193000	0.7917	0.0208	0.0000	7/18/2001 19:30	33.83	110.8	7.85	117.5	7.49	8.6
7/18/2001	194500	0.7917	0.0313	0.0000	7/18/2001 19:45	33.37	89.2	6.37	118.1	7.05	8.7
7/18/2001	200000	0.8333	0.0000	0.0000	7/18/2001 20:00	33.64	108	7.67	117	7.48	8.6
7/18/2001	201500	0.8333	0.0104	0.0000	7/18/2001 20:15	33.22	94.5	6.76	117.2	7.1	8.6
7/18/2001	203000	0.8333	0.0208	0.0000	7/18/2001 20:30	33.4	100.6	7.17	117.5	7.29	8.6
7/18/2001	204500	0.8333	0.0313	0.0000	7/18/2001 20:45	33.37	100.9	7.2	117.2	7.24	8.6
7/18/2001	210000	0.8750	0.0000	0.0000	7/18/2001 21:00	33.08	95.6	6.86	117.3	7.14	8.6
7/18/2001	211500	0.8750	0.0104	0.0000	7/18/2001 21:15	32.93	93.8	6.74	117	7.12	8.6
7/18/2001	213000	0.8750	0.0208	0.0000	7/18/2001 21:30	32.7	86.3	6.23	117.4	6.98	8.6
7/18/2001	214500	0.8750	0.0313	0.0000	7/18/2001 21:45	32.77	91	6.56	117.1	7.09	8.6
7/18/2001	220000	0.9167	0.0000	0.0000	7/18/2001 22:00	32.65	89.4	6.46	117.6	7.05	8.6
7/18/2001	221500	0.9167	0.0104	0.0000	7/18/2001 22:15	32.7	90.8	6.55	117	7.09	8.7
7/18/2001	223000	0.9167	0.0208	0.0000	7/18/2001 22:30	32.63	89.3	6.45	117.2	7.07	8.7
7/18/2001	224500	0.9167	0.0313	0.0000	7/18/2001 22:45	32.57	89.6	6.48	116.8	7.06	8.6
7/18/2001	230000	0.9583	0.0000	0.0000	7/18/2001 23:00	32.44	87	6.31	116.5	7.02	8.6
7/18/2001	231500	0.9583	0.0104	0.0000	7/18/2001 23:15	32.51	89.8	6.5	116.4	7.03	8.6
7/18/2001	233000	0.9583	0.0208	0.0000	7/18/2001 23:30	32.42	86	6.23	116.7	7.01	8.6
7/18/2001	234500	0.9583	0.0313	0.0000	7/18/2001 23:45	32.35	84.2	6.11	116.6	6.98	8.6
7/19/2001	0	0.0000	0.0000	0.0000	7/19/2001 0:00	32.31	84.7	6.15	116.8	6.98	8.6
7/19/2001	1500	0.0000	0.0104	0.0000	7/19/2001 0:15	32.34	85.1	6.18	116	6.98	8.6
7/19/2001	3000	0.0000	0.0208	0.0000	7/19/2001 0:30	32.22	82	5.97	116.7	6.95	8.6
7/19/2001	4500	0.0000	0.0313	0.0000	7/19/2001 0:45	32.18	81	5.9	116.2	6.93	8.6
7/19/2001	10000	0.0417	0.0000	0.0000	7/19/2001 1:00	32.17	81.1	5.91	116	6.93	8.6
7/19/2001	11500	0.0417	0.0104	0.0000	7/19/2001 1:15	32.16	80.7	5.88	116	6.92	8.6
7/19/2001	13000	0.0417	0.0208	0.0000	7/19/2001 1:30	32.02	75.4	5.5	116.5	6.88	8.7
7/19/2001	14500	0.0417	0.0313	0.0000	7/19/2001 1:45	32.03	77.4	5.65	116.6	6.89	8.6
7/19/2001	20000	0.0833	0.0000	0.0000	7/19/2001 2:00	31.99	75.6	5.52	116.3	6.85	8.6
7/19/2001	21500	0.0833	0.0104	0.0000	7/19/2001 2:15	31.9	72.6	5.31	116.3	6.82	8.7
7/19/2001	23000	0.0833	0.0208	0.0000	7/19/2001 2:30	31.85	71.2	5.21	116.2	6.81	8.6
7/19/2001	24500	0.0833	0.0313	0.0000	7/19/2001 2:45	31.82	71	5.2	116.3	6.81	8.6
7/19/2001	30000	0.1250	0.0000	0.0000	7/19/2001 3:00	31.78	69	5.06	116.2	6.79	8.6
7/19/2001	31500	0.1250	0.0104	0.0000	7/19/2001 3:15	31.76	69.1	5.06	116.3	6.78	8.6
7/19/2001	33000	0.1250	0.0208	0.0000	7/19/2001 3:30	31.74	70	5.13	116.3	6.8	8.6
7/19/2001	34500	0.1250	0.0313	0.0000	7/19/2001 3:45	31.72	68.3	5.01	116.4	6.78	8.6
7/19/2001	40000	0.1667	0.0000	0.0000	7/19/2001 4:00	31.67	67.3	4.94	116.3	6.77	8.5
7/19/2001	41500	0.1667	0.0104	0.0000	7/19/2001 4:15	31.66	66.4	4.88	116.1	6.76	8.6
7/19/2001	43000	0.1667	0.0208	0.0000	7/19/2001 4:30	31.63	63.8	4.68	116.3	6.74	8.6
7/19/2001	44500	0.1667	0.0313	0.0000	7/19/2001 4:45	31.61	64.5	4.74	116.3	6.75	8.7
7/19/2001	50000	0.2083	0.0000	0.0000	7/19/2001 5:00	31.6	63.4	4.66	116.1	6.74	8.6
7/19/2001	51500	0.2083	0.0104	0.0000	7/19/2001 5:15	31.58	62.7	4.61	116.2	6.73	8.6
7/19/2001	53000	0.2083	0.0208	0.0000	7/19/2001 5:30	31.57	64.1	4.71	116.5	6.75	8.6
7/19/2001	54500	0.2083	0.0313	0.0000	7/19/2001 5:45	31.57	63.3	4.65	116.4	6.74	8.6

7/19/2001	60000	0.2500	0.0000	0.0000	7/19/2001 6:00	31.57	63.1	4.64	116.4	6.73	8.5
					Maximum	33.83	110.8	7.85	120.8	7.52	10.7
					Average	32.00	72.9	5.31	118.5	6.85	9.1
					Minimum	31.41	59.8	4.40	116.0	6.69	8.5

DataSonde 4a 37758
Log File Name : Ouachita River Site 5
Setup Date (MMDDYY) : 071601
Setup Time (HHMMSS) : 084910
Starting Date (MMDDYY) : 071601
Starting Time (HHMMSS) : 180000
Stopping Date (MMDDYY) : 071901
Stopping Time (HHMMSS) : 140000
Interval (HHMMSS) : 001500
Sensor warmup (HHMMSS) : 000200
Circltr warmup (HHMMSS) : 000200

Date MMDDYY	Time HHMMSS				Date & Time	Temp Øc	DO% Sat	DO mg/l	SpCond Æs/cm	Ph Units	Ibatt Volts
7/17/2001	160000	0.6667	0.0000	0.0000	7/17/2001 16:00	32.36	70.8	5.14	138.1	6.9	11.1
7/17/2001	161500	0.6667	0.0104	0.0000	7/17/2001 16:15	32.51	77.4	5.6	138.2	6.96	11.1
7/17/2001	163000	0.6667	0.0208	0.0000	7/17/2001 16:30	32.55	81.9	5.92	138.6	6.97	11.1
7/17/2001	164500	0.6667	0.0313	0.0000	7/17/2001 16:45	32.17	69.1	5.03	139.3	6.86	11.1
7/17/2001	170000	0.7083	0.0000	0.0000	7/17/2001 17:00	32.24	67.8	4.93	139.5	6.86	11.1
7/17/2001	171500	0.7083	0.0104	0.0000	7/17/2001 17:15	32.34	73.4	5.33	139.7	6.9	11.1
7/17/2001	173000	0.7083	0.0208	0.0000	7/17/2001 17:30	32.25	71.9	5.23	140.1	6.88	11.1
7/17/2001	174500	0.7083	0.0313	0.0000	7/17/2001 17:45	32.94	94.4	6.78	139.5	7.13	11.1
7/17/2001	180000	0.7500	0.0000	0.0000	7/17/2001 18:00	32.64	86.4	6.24	140.2	7.05	11.1
7/17/2001	181500	0.7500	0.0104	0.0000	7/17/2001 18:15	32.54	83.7	6.05	139.9	6.99	11.1
7/17/2001	183000	0.7500	0.0208	0.0000	7/17/2001 18:30	33.36	107.8	7.69	140	7.49	11.1
7/17/2001	184500	0.7500	0.0313	0.0000	7/17/2001 18:45	32.63	85.2	6.15	140.7	7.06	11.1
7/17/2001	190000	0.7917	0.0000	0.0000	7/17/2001 19:00	32.78	93	6.7	140.6	7.09	11.1
7/17/2001	191500	0.7917	0.0104	0.0000	7/17/2001 19:15	32.77	84.5	6.09	140.9	7.07	11.1
7/17/2001	193000	0.7917	0.0208	0.0000	7/17/2001 19:30	32.96	95.4	6.85	140.6	7.16	11.1
7/17/2001	194500	0.7917	0.0313	0.0000	7/17/2001 19:45	32.9	96.7	6.95	140.6	7.23	11.1
7/17/2001	200000	0.8333	0.0000	0.0000	7/17/2001 20:00	32.28	72.7	5.28	141.7	6.93	11.1
7/17/2001	201500	0.8333	0.0104	0.0000	7/17/2001 20:15	32.46	80.4	5.82	141.3	6.98	11.1
7/17/2001	203000	0.8333	0.0208	0.0000	7/17/2001 20:30	32.22	76.3	5.55	140.8	6.91	11.1
7/17/2001	204500	0.8333	0.0313	0.0000	7/17/2001 20:45	32.85	99.8	7.18	140.6	7.3	11.1
7/17/2001	210000	0.8750	0.0000	0.0000	7/17/2001 21:00	32.96	113.5	8.16	139.4	7.85	11.1
7/17/2001	211500	0.8750	0.0104	0.0000	7/17/2001 21:15	32.93	113.3	8.14	139.2	7.91	11.1
7/17/2001	213000	0.8750	0.0208	0.0000	7/17/2001 21:30	32.85	112.6	8.1	138.6	7.76	11.1
7/17/2001	214500	0.8750	0.0313	0.0000	7/17/2001 21:45	32.73	106.8	7.71	138.1	7.49	11.1
7/17/2001	220000	0.9167	0.0000	0.0000	7/17/2001 22:00	32.63	102.5	7.4	138.7	7.37	11.1
7/17/2001	221500	0.9167	0.0104	0.0000	7/17/2001 22:15	32.56	101.9	7.37	137.8	7.33	11.1

7/17/2001	223000	0.9167	0.0208	0.0000	7/17/2001 22:30	32.45	96.4	6.98	138.1	7.21	11.1
7/17/2001	224500	0.9167	0.0313	0.0000	7/17/2001 22:45	32.4	93.6	6.79	137.9	7.17	11.1
7/17/2001	230000	0.9583	0.0000	0.0000	7/17/2001 23:00	32.33	91.7	6.66	137.8	7.14	11.1
7/17/2001	231500	0.9583	0.0104	0.0000	7/17/2001 23:15	32.26	90.6	6.58	138	7.09	11.1
7/17/2001	233000	0.9583	0.0208	0.0000	7/17/2001 23:30	32.14	86.2	6.28	137.8	7.04	11.1
7/17/2001	234500	0.9583	0.0313	0.0000	7/17/2001 23:45	32.08	83.5	6.09	138.1	7.01	11.1
7/18/2001	0	0.0000	0.0000	0.0000	7/18/2001 0:00	31.97	80.5	5.88	138	6.98	11.1
7/18/2001	1500	0.0000	0.0104	0.0000	7/18/2001 0:15	31.85	78.4	5.74	137.5	6.94	11.1
7/18/2001	3000	0.0000	0.0208	0.0000	7/18/2001 0:30	31.78	72.4	5.31	137.8	6.89	11.1
7/18/2001	4500	0.0000	0.0313	0.0000	7/18/2001 0:45	31.72	69.3	5.09	138.1	6.86	11.1
7/18/2001	10000	0.0417	0.0000	0.0000	7/18/2001 1:00	31.65	68.2	5.01	137.4	6.84	11.1
7/18/2001	11500	0.0417	0.0104	0.0000	7/18/2001 1:15	31.62	64.6	4.75	138.3	6.83	11.1
7/18/2001	13000	0.0417	0.0208	0.0000	7/18/2001 1:30	31.61	64.9	4.77	138.4	6.81	11.1
7/18/2001	14500	0.0417	0.0313	0.0000	7/18/2001 1:45	31.57	64.4	4.73	137.8	6.81	11.1
7/18/2001	20000	0.0833	0.0000	0.0000	7/18/2001 2:00	31.54	61.3	4.51	137.9	6.79	11.1
7/18/2001	21500	0.0833	0.0104	0.0000	7/18/2001 2:15	31.52	60.3	4.44	138.4	6.78	11.1
7/18/2001	23000	0.0833	0.0208	0.0000	7/18/2001 2:30	31.49	58.6	4.32	138.1	6.77	11.1
7/18/2001	24500	0.0833	0.0313	0.0000	7/18/2001 2:45	31.48	58.3	4.29	137.7	6.76	11.1
7/18/2001	30000	0.1250	0.0000	0.0000	7/18/2001 3:00	31.46	57	4.2	137.4	6.76	11.1
7/18/2001	31500	0.1250	0.0104	0.0000	7/18/2001 3:15	31.46	57.4	4.23	137.4	6.75	11.1
7/18/2001	33000	0.1250	0.0208	0.0000	7/18/2001 3:30	31.45	56.9	4.19	137.4	6.75	11.1
7/18/2001	34500	0.1250	0.0313	0.0000	7/18/2001 3:45	31.43	57.1	4.21	137.4	6.75	11.1
7/18/2001	40000	0.1667	0.0000	0.0000	7/18/2001 4:00	31.42	55.3	4.08	137.9	6.74	11.1
7/18/2001	41500	0.1667	0.0104	0.0000	7/18/2001 4:15	31.42	57.6	4.25	136.7	6.75	11.1
7/18/2001	43000	0.1667	0.0208	0.0000	7/18/2001 4:30	31.37	55.8	4.12	137.4	6.75	11.1
7/18/2001	44500	0.1667	0.0313	0.0000	7/18/2001 4:45	31.39	57.2	4.22	136.4	6.75	11.1
7/18/2001	50000	0.2083	0.0000	0.0000	7/18/2001 5:00	31.39	56.8	4.19	136.6	6.75	11.1
7/18/2001	51500	0.2083	0.0104	0.0000	7/18/2001 5:15	31.4	57.4	4.23	136.7	6.75	11.1
7/18/2001	53000	0.2083	0.0208	0.0000	7/18/2001 5:30	31.41	58.1	4.28	136.2	6.75	11.1
7/18/2001	54500	0.2083	0.0313	0.0000	7/18/2001 5:45	31.4	58.2	4.29	136.2	6.75	11.1
7/18/2001	60000	0.2500	0.0000	0.0000	7/18/2001 6:00	31.39	58.2	4.29	135.9	6.76	11.1
7/18/2001	61500	0.2500	0.0104	0.0000	7/18/2001 6:15	31.4	58.7	4.33	135.5	6.76	11.1
7/18/2001	63000	0.2500	0.0208	0.0000	7/18/2001 6:30	31.4	58.2	4.29	135.4	6.76	11
7/18/2001	64500	0.2500	0.0313	0.0000	7/18/2001 6:45	31.39	58.9	4.35	135	6.76	11
7/18/2001	70000	0.2917	0.0000	0.0000	7/18/2001 7:00	31.38	59	4.35	135	6.76	11
7/18/2001	71500	0.2917	0.0104	0.0000	7/18/2001 7:15	31.4	58.8	4.34	134.9	6.76	11.1
7/18/2001	73000	0.2917	0.0208	0.0000	7/18/2001 7:30	31.41	59.5	4.39	134.8	6.76	11
7/18/2001	74500	0.2917	0.0313	0.0000	7/18/2001 7:45	31.41	59.2	4.37	134.7	6.76	11.1
7/18/2001	80000	0.3333	0.0000	0.0000	7/18/2001 8:00	31.42	59.6	4.39	134.3	6.77	11
7/18/2001	81500	0.3333	0.0104	0.0000	7/18/2001 8:15	31.44	60.6	4.47	134.4	6.76	11.1
7/18/2001	83000	0.3333	0.0208	0.0000	7/18/2001 8:30	31.45	60.7	4.47	134.1	6.77	11.1
7/18/2001	84500	0.3333	0.0313	0.0000	7/18/2001 8:45	31.44	59.5	4.39	134.1	6.76	11

7/18/2001	90000	0.3750	0.0000	0.0000	7/18/2001 9:00	31.47	59.7	4.4	134.1	6.76	11
7/18/2001	91500	0.3750	0.0104	0.0000	7/18/2001 9:15	31.53	61	4.49	133.9	6.77	11.1
7/18/2001	93000	0.3750	0.0208	0.0000	7/18/2001 9:30	31.47	59.5	4.38	134	6.76	11
7/18/2001	94500	0.3750	0.0313	0.0000	7/18/2001 9:45	31.49	59.1	4.35	133.9	6.77	11.1
7/18/2001	100000	0.4167	0.0000	0.0000	7/18/2001 10:00	31.5	60.5	4.46	133.7	6.77	11.1
7/18/2001	101500	0.4167	0.0104	0.0000	7/18/2001 10:15	31.68	65.2	4.78	133.6	6.8	11.1
7/18/2001	103000	0.4167	0.0208	0.0000	7/18/2001 10:30	31.77	65.2	4.78	133.7	6.81	11
7/18/2001	104500	0.4167	0.0313	0.0000	7/18/2001 10:45	31.74	62.9	4.61	133.5	6.79	11.1
7/18/2001	110000	0.4583	0.0000	0.0000	7/18/2001 11:00	31.96	67.6	4.94	133.3	6.84	11
7/18/2001	111500	0.4583	0.0104	0.0000	7/18/2001 11:15	31.8	62.3	4.57	133.5	6.8	11.1
7/18/2001	113000	0.4583	0.0208	0.0000	7/18/2001 11:30	31.98	67.8	4.95	133.6	6.83	11.1
7/18/2001	114500	0.4583	0.0313	0.0000	7/18/2001 11:45	32.15	75.6	5.51	133.4	6.9	11
7/18/2001	120000	0.5000	0.0000	0.0000	7/18/2001 12:00	32.03	70.9	5.18	133.5	6.85	11
7/18/2001	121500	0.5000	0.0104	0.0000	7/18/2001 12:15	31.97	71.8	5.24	133.6	6.86	11
7/18/2001	123000	0.5000	0.0208	0.0000	7/18/2001 12:30	32.07	70.4	5.14	133.6	6.86	11.1
7/18/2001	124500	0.5000	0.0313	0.0000	7/18/2001 12:45	32.15	71	5.17	133.5	6.87	11
7/18/2001	130000	0.5417	0.0000	0.0000	7/18/2001 13:00	32.01	70.3	5.13	133.9	6.85	11.1
7/18/2001	131500	0.5417	0.0104	0.0000	7/18/2001 13:15	31.97	70.4	5.14	133.8	6.84	11.1
7/18/2001	133000	0.5417	0.0208	0.0000	7/18/2001 13:30	32.37	79.3	5.75	133.8	6.94	11.1
7/18/2001	134500	0.5417	0.0313	0.0000	7/18/2001 13:45	32.29	76	5.53	134.1	6.89	11.1
7/18/2001	140000	0.5833	0.0000	0.0000	7/18/2001 14:00	32.16	73.9	5.38	134.1	6.87	11
7/18/2001	141500	0.5833	0.0104	0.0000	7/18/2001 14:15	32.41	78.2	5.67	134.1	6.91	11.1
7/18/2001	143000	0.5833	0.0208	0.0000	7/18/2001 14:30	32.33	74.2	5.39	134.3	6.88	11.1
7/18/2001	144500	0.5833	0.0313	0.0000	7/18/2001 14:45	32.52	79.9	5.78	134	6.93	11.1
7/18/2001	150000	0.6250	0.0000	0.0000	7/18/2001 15:00	32.32	75.5	5.48	134.1	6.89	11.1
7/18/2001	151500	0.6250	0.0104	0.0000	7/18/2001 15:15	32.54	79.3	5.73	134.4	6.92	11.1
7/18/2001	153000	0.6250	0.0208	0.0000	7/18/2001 15:30	32.24	71.8	5.22	134.4	6.87	11
7/18/2001	154500	0.6250	0.0313	0.0000	7/18/2001 15:45	32.38	72.3	5.24	134.2	6.88	10.9
7/18/2001	160000	0.6667	0.0000	0.0000	7/18/2001 16:00	32.6	72.6	5.25	134.6	6.88	11.1
7/18/2001	161500	0.6667	0.0104	0.0000	7/18/2001 16:15	32.73	79.7	5.75	134.8	6.95	11.1
7/18/2001	163000	0.6667	0.0208	0.0000	7/18/2001 16:30	32.58	77.5	5.6	134.6	6.91	11.1
7/18/2001	164500	0.6667	0.0313	0.0000	7/18/2001 16:45	32.73	78.1	5.63	134.5	6.94	11
7/18/2001	170000	0.7083	0.0000	0.0000	7/18/2001 17:00	32.34	73.9	5.37	135.7	6.87	11.1
7/18/2001	171500	0.7083	0.0104	0.0000	7/18/2001 17:15	32.39	74.3	5.39	136.2	6.88	11
7/18/2001	173000	0.7083	0.0208	0.0000	7/18/2001 17:30	32.36	73.6	5.34	136.3	6.89	11.1
7/18/2001	174500	0.7083	0.0313	0.0000	7/18/2001 17:45	32.26	71.6	5.21	136.4	6.86	11.1
7/18/2001	180000	0.7500	0.0000	0.0000	7/18/2001 18:00	32.78	75.5	5.44	135.4	6.95	11.1
7/18/2001	181500	0.7500	0.0104	0.0000	7/18/2001 18:15	32.74	79.8	5.75	135.7	6.94	11
7/18/2001	183000	0.7500	0.0208	0.0000	7/18/2001 18:30	32.88	78	5.61	135.1	7	11.1
7/18/2001	184500	0.7500	0.0313	0.0000	7/18/2001 18:45	32.8	76.9	5.54	135.2	6.95	11
7/18/2001	190000	0.7917	0.0000	0.0000	7/18/2001 19:00	32.55	75.3	5.45	136.1	6.91	11
7/18/2001	191500	0.7917	0.0104	0.0000	7/18/2001 19:15	33.13	83.7	6	136.5	7.04	11

7/18/2001	193000	0.7917	0.0208	0.0000	7/18/2001 19:30	33.23	90.8	6.49	136.3	7.09	11
7/18/2001	194500	0.7917	0.0313	0.0000	7/18/2001 19:45	32.65	75.1	5.42	137	6.92	11.1
7/18/2001	200000	0.8333	0.0000	0.0000	7/18/2001 20:00	32.8	79.8	5.75	136.8	6.96	11
7/18/2001	201500	0.8333	0.0104	0.0000	7/18/2001 20:15	33.19	91.8	6.57	137.1	7.11	11.1
7/18/2001	203000	0.8333	0.0208	0.0000	7/18/2001 20:30	32.91	81.4	5.85	136.3	7.01	11.1
7/18/2001	204500	0.8333	0.0313	0.0000	7/18/2001 20:45	32.62	76	5.49	137.3	6.94	11
7/18/2001	210000	0.8750	0.0000	0.0000	7/18/2001 21:00	32.87	81.6	5.87	136.7	6.99	11
7/18/2001	211500	0.8750	0.0104	0.0000	7/18/2001 21:15	32.94	83.5	6	137.2	7.02	11
7/18/2001	213000	0.8750	0.0208	0.0000	7/18/2001 21:30	32.98	85.6	6.15	137.2	7.06	11
7/18/2001	214500	0.8750	0.0313	0.0000	7/18/2001 21:45	32.57	75.8	5.48	137.2	6.99	11
7/18/2001	220000	0.9167	0.0000	0.0000	7/18/2001 22:00	32.33	68.4	4.97	137.4	6.87	11
7/18/2001	221500	0.9167	0.0104	0.0000	7/18/2001 22:15	32.66	81.3	5.87	137.3	7	11
7/18/2001	223000	0.9167	0.0208	0.0000	7/18/2001 22:30	32.56	78.4	5.67	137.4	6.99	11
7/18/2001	224500	0.9167	0.0313	0.0000	7/18/2001 22:45	32.37	73.2	5.31	137.6	6.91	11
7/18/2001	230000	0.9583	0.0000	0.0000	7/18/2001 23:00	32.42	77.4	5.61	137.6	6.96	11
7/18/2001	231500	0.9583	0.0104	0.0000	7/18/2001 23:15	32.26	71.1	5.16	137.7	6.9	11.1
7/18/2001	233000	0.9583	0.0208	0.0000	7/18/2001 23:30	32.24	73	5.31	137.5	6.91	11
7/18/2001	234500	0.9583	0.0313	0.0000	7/18/2001 23:45	32.2	70.5	5.13	137.6	6.89	11
7/19/2001	0	0.0000	0.0000	0.0000	7/19/2001 0:00	32.36	82.2	5.97	137.3	7.01	11
7/19/2001	1500	0.0000	0.0104	0.0000	7/19/2001 0:15	32.27	77.8	5.66	137.3	6.98	11
7/19/2001	3000	0.0000	0.0208	0.0000	7/19/2001 0:30	32.03	64.7	4.72	137.8	6.92	11
7/19/2001	4500	0.0000	0.0313	0.0000	7/19/2001 0:45	32.27	80.3	5.83	137.2	7.02	11.1
7/19/2001	10000	0.0417	0.0000	0.0000	7/19/2001 1:00	32.27	79.8	5.8	137.2	7.03	11
7/19/2001	11500	0.0417	0.0104	0.0000	7/19/2001 1:15	32.26	81.1	5.89	137.2	7.04	10.9
7/19/2001	13000	0.0417	0.0208	0.0000	7/19/2001 1:30	32.23	80.8	5.87	137	7.03	11
7/19/2001	14500	0.0417	0.0313	0.0000	7/19/2001 1:45	32.21	79.4	5.78	137	7.02	11.1
7/19/2001	20000	0.0833	0.0000	0.0000	7/19/2001 2:00	31.95	61.3	4.48	137.5	6.83	11
7/19/2001	21500	0.0833	0.0104	0.0000	7/19/2001 2:15	32.09	76.7	5.59	136.9	6.96	11.1
7/19/2001	23000	0.0833	0.0208	0.0000	7/19/2001 2:30	32.04	75.8	5.53	137	6.95	11
7/19/2001	24500	0.0833	0.0313	0.0000	7/19/2001 2:45	31.97	73.9	5.4	136.8	6.93	11
7/19/2001	30000	0.1250	0.0000	0.0000	7/19/2001 3:00	31.88	68.3	5	136.8	6.89	11
7/19/2001	31500	0.1250	0.0104	0.0000	7/19/2001 3:15	31.84	68.5	5.01	137	6.88	11
7/19/2001	33000	0.1250	0.0208	0.0000	7/19/2001 3:30	31.8	66.9	4.9	137	6.88	10.9
7/19/2001	34500	0.1250	0.0313	0.0000	7/19/2001 3:45	31.78	64.6	4.73	137.1	6.85	10.9
7/19/2001	40000	0.1667	0.0000	0.0000	7/19/2001 4:00	31.75	65.9	4.83	137	6.85	11
7/19/2001	41500	0.1667	0.0104	0.0000	7/19/2001 4:15	31.72	64.5	4.73	137.1	6.83	10.9
7/19/2001	43000	0.1667	0.0208	0.0000	7/19/2001 4:30	31.65	60.5	4.44	137.2	6.82	11
7/19/2001	44500	0.1667	0.0313	0.0000	7/19/2001 4:45	31.66	61.3	4.5	137.3	6.81	11
7/19/2001	50000	0.2083	0.0000	0.0000	7/19/2001 5:00	31.62	60	4.41	137.1	6.81	11
7/19/2001	51500	0.2083	0.0104	0.0000	7/19/2001 5:15	31.61	60.2	4.43	137.2	6.8	11
7/19/2001	53000	0.2083	0.0208	0.0000	7/19/2001 5:30	31.6	58.6	4.31	137.2	6.79	11
7/19/2001	54500	0.2083	0.0313	0.0000	7/19/2001 5:45	31.58	58.1	4.28	137.2	6.79	10.9

7/19/2001	60000	0.2500	0.0000	0.0000	7/19/2001 6:00	31.58	57.1	4.2	137.1	6.78	11
					Maximum	33.36	113.5	8.16	141.7	7.91	11.1
					Average	32.12	73.4	5.34	136.7	6.93	11.1
					Minimum	31.37	55.3	4.08	133.3	6.74	10.9

DataSonde 4a 37754
Log File Name : Ouachita River Site 6
Setup Date (MMDDYY) : 071601
Setup Time (HHMMSS) : 085318
Starting Date (MMDDYY) : 071601
Starting Time (HHMMSS) : 180000
Stopping Date (MMDDYY) : 071901
Stopping Time (HHMMSS) : 140000
Interval (HHMMSS) : 001500
Sensor warmup (HHMMSS) : 000200
Circltr warmup (HHMMSS) : 000200

Date MMDDYY	Time HHMMSS				Date & Time	Temp Øc	DO% Sat	DO mg/l	Ph Units	SpCond Æs/cm	Ibatt Volts
7/17/2001	160000	0.6667	0.0000	0.0000	7/17/2001 16:00	33.33	86.7	6.19	6.89	160.6	11.5
7/17/2001	161500	0.6667	0.0104	0.0000	7/17/2001 16:15	32.17	62	4.51	6.77	161.2	11.4
7/17/2001	163000	0.6667	0.0208	0.0000	7/17/2001 16:30	31.99	59.2	4.32	6.72	161.1	11.4
7/17/2001	164500	0.6667	0.0313	0.0000	7/17/2001 16:45	33.13	84	6.02	6.86	160.4	11.4
7/17/2001	170000	0.7083	0.0000	0.0000	7/17/2001 17:00	33.43	97.7	6.97	7.1	160.1	11.4
7/17/2001	171500	0.7083	0.0104	0.0000	7/17/2001 17:15	32.81	77.2	5.56	6.84	160.2	11.5
7/17/2001	173000	0.7083	0.0208	0.0000	7/17/2001 17:30	33.51	96.2	6.85	7.1	159.9	11.4
7/17/2001	174500	0.7083	0.0313	0.0000	7/17/2001 17:45	33.83	111.8	7.92	7.35	159.7	11.4
7/17/2001	180000	0.7500	0.0000	0.0000	7/17/2001 18:00	32.67	80.6	5.82	6.95	159.5	11.4
7/17/2001	181500	0.7500	0.0104	0.0000	7/17/2001 18:15	32.95	86	6.18	6.91	159.2	11.4
7/17/2001	183000	0.7500	0.0208	0.0000	7/17/2001 18:30	32.45	75.6	5.47	6.85	159.8	11.4
7/17/2001	184500	0.7500	0.0313	0.0000	7/17/2001 18:45	32.96	89.5	6.43	6.99	159.5	11.4
7/17/2001	190000	0.7917	0.0000	0.0000	7/17/2001 19:00	32.55	76.6	5.54	6.81	159.8	11.4
7/17/2001	191500	0.7917	0.0104	0.0000	7/17/2001 19:15	33.07	84.9	6.09	6.85	160.3	11.4
7/17/2001	193000	0.7917	0.0208	0.0000	7/17/2001 19:30	33.35	103.7	7.4	7.24	158.9	11.4
7/17/2001	194500	0.7917	0.0313	0.0000	7/17/2001 19:45	32.76	87.6	6.31	6.94	159.4	11.4
7/17/2001	200000	0.8333	0.0000	0.0000	7/17/2001 20:00	32.97	95	6.83	7.08	159.5	11.4
7/17/2001	201500	0.8333	0.0104	0.0000	7/17/2001 20:15	32.56	81.4	5.89	6.92	159.4	11.4
7/17/2001	203000	0.8333	0.0208	0.0000	7/17/2001 20:30	32.94	93.4	6.71	7.04	159.7	11.4
7/17/2001	204500	0.8333	0.0313	0.0000	7/17/2001 20:45	32.69	86.2	6.22	6.89	159.6	11.4
7/17/2001	210000	0.8750	0.0000	0.0000	7/17/2001 21:00	32.82	94.9	6.83	7	159.7	11.4
7/17/2001	211500	0.8750	0.0104	0.0000	7/17/2001 21:15	32.71	91.8	6.63	6.97	159.7	11.4
7/17/2001	213000	0.8750	0.0208	0.0000	7/17/2001 21:30	32.5	85.9	6.22	6.91	159.7	11.4
7/17/2001	214500	0.8750	0.0313	0.0000	7/17/2001 21:45	32.44	82.3	5.96	6.85	159.9	11.4
7/17/2001	220000	0.9167	0.0000	0.0000	7/17/2001 22:00	32.33	79.3	5.76	6.82	159.7	11.4
7/17/2001	221500	0.9167	0.0104	0.0000	7/17/2001 22:15	32.32	81.9	5.94	6.87	159.7	11.4

7/17/2001	223000	0.9167	0.0208	0.0000	7/17/2001 22:30	32.27	81.7	5.94	6.85	159.5	11.4
7/17/2001	224500	0.9167	0.0313	0.0000	7/17/2001 22:45	32.03	73.3	5.35	6.79	159.8	11.4
7/17/2001	230000	0.9583	0.0000	0.0000	7/17/2001 23:00	31.95	67.8	4.95	6.73	159.8	11.4
7/17/2001	231500	0.9583	0.0104	0.0000	7/17/2001 23:15	32	72	5.26	6.74	159.7	11.4
7/17/2001	233000	0.9583	0.0208	0.0000	7/17/2001 23:30	31.87	66.1	4.84	6.71	160	11.4
7/17/2001	234500	0.9583	0.0313	0.0000	7/17/2001 23:45	31.89	66.2	4.84	6.7	160	11.4
7/18/2001	0	0.0000	0.0000	0.0000	7/18/2001 0:00	31.83	64	4.69	6.7	160	11.4
7/18/2001	1500	0.0000	0.0104	0.0000	7/18/2001 0:15	31.76	60.7	4.45	6.68	160	11.4
7/18/2001	3000	0.0000	0.0208	0.0000	7/18/2001 0:30	31.75	62.9	4.61	6.68	160	11.4
7/18/2001	4500	0.0000	0.0313	0.0000	7/18/2001 0:45	31.93	67.7	4.95	6.71	160.6	11.4
7/18/2001	10000	0.0417	0.0000	0.0000	7/18/2001 1:00	31.76	61.8	4.53	6.68	160.2	11.4
7/18/2001	11500	0.0417	0.0104	0.0000	7/18/2001 1:15	31.74	61.3	4.49	6.67	160.4	11.4
7/18/2001	13000	0.0417	0.0208	0.0000	7/18/2001 1:30	31.78	63	4.61	6.69	160.2	11.4
7/18/2001	14500	0.0417	0.0313	0.0000	7/18/2001 1:45	31.77	65.3	4.78	6.69	160.3	11.4
7/18/2001	20000	0.0833	0.0000	0.0000	7/18/2001 2:00	31.72	61.2	4.49	6.68	160.3	11.4
7/18/2001	21500	0.0833	0.0104	0.0000	7/18/2001 2:15	31.74	67.6	4.96	6.71	160.6	11.4
7/18/2001	23000	0.0833	0.0208	0.0000	7/18/2001 2:30	31.72	62.6	4.6	6.68	160.3	11.4
7/18/2001	24500	0.0833	0.0313	0.0000	7/18/2001 2:45	31.7	64	4.7	6.71	160.5	11.4
7/18/2001	30000	0.1250	0.0000	0.0000	7/18/2001 3:00	31.69	61.8	4.53	6.7	160.6	11.4
7/18/2001	31500	0.1250	0.0104	0.0000	7/18/2001 3:15	31.74	67.4	4.94	6.73	160.7	11.4
7/18/2001	33000	0.1250	0.0208	0.0000	7/18/2001 3:30	31.7	66.5	4.88	6.73	160.6	11.4
7/18/2001	34500	0.1250	0.0313	0.0000	7/18/2001 3:45	31.71	66.7	4.89	6.72	161	11.4
7/18/2001	40000	0.1667	0.0000	0.0000	7/18/2001 4:00	31.68	66	4.84	6.71	161.1	11.4
7/18/2001	41500	0.1667	0.0104	0.0000	7/18/2001 4:15	31.67	63.6	4.67	6.7	160.8	11.4
7/18/2001	43000	0.1667	0.0208	0.0000	7/18/2001 4:30	31.67	63.7	4.67	6.7	161.1	11.4
7/18/2001	44500	0.1667	0.0313	0.0000	7/18/2001 4:45	31.65	63.5	4.66	6.7	161.2	11.4
7/18/2001	50000	0.2083	0.0000	0.0000	7/18/2001 5:00	31.61	63.3	4.65	6.69	161.1	11.4
7/18/2001	51500	0.2083	0.0104	0.0000	7/18/2001 5:15	31.63	63.2	4.64	6.69	161.3	11.4
7/18/2001	53000	0.2083	0.0208	0.0000	7/18/2001 5:30	31.64	63.1	4.63	6.69	161.3	11.4
7/18/2001	54500	0.2083	0.0313	0.0000	7/18/2001 5:45	31.63	62.3	4.57	6.69	161.2	11.4
7/18/2001	60000	0.2500	0.0000	0.0000	7/18/2001 6:00	31.61	61.3	4.51	6.68	161.3	11.4
7/18/2001	61500	0.2500	0.0104	0.0000	7/18/2001 6:15	31.57	60.8	4.47	6.68	161.4	11.4
7/18/2001	63000	0.2500	0.0208	0.0000	7/18/2001 6:30	31.58	60.5	4.45	6.67	161.4	11.4
7/18/2001	64500	0.2500	0.0313	0.0000	7/18/2001 6:45	31.56	59.2	4.35	6.67	161.6	11.4
7/18/2001	70000	0.2917	0.0000	0.0000	7/18/2001 7:00	31.56	58.6	4.31	6.66	161.6	11.4
7/18/2001	71500	0.2917	0.0104	0.0000	7/18/2001 7:15	31.56	58.8	4.32	6.65	161.6	11.4
7/18/2001	73000	0.2917	0.0208	0.0000	7/18/2001 7:30	31.56	58	4.27	6.66	161.5	11.4
7/18/2001	74500	0.2917	0.0313	0.0000	7/18/2001 7:45	31.56	58.4	4.3	6.65	161.6	11.4
7/18/2001	80000	0.3333	0.0000	0.0000	7/18/2001 8:00	31.56	57.6	4.24	6.65	161.6	11.4
7/18/2001	81500	0.3333	0.0104	0.0000	7/18/2001 8:15	31.57	58.5	4.31	6.66	161.5	11.4
7/18/2001	83000	0.3333	0.0208	0.0000	7/18/2001 8:30	31.59	60.2	4.43	6.67	161.4	11
7/18/2001	84500	0.3333	0.0313	0.0000	7/18/2001 8:45	31.59	60	4.41	6.67	161.5	11.4

7/18/2001	90000	0.3750	0.0000	0.0000	7/18/2001 9:00	31.6	60.7	4.46	6.68	161.3	11.4
7/18/2001	91500	0.3750	0.0104	0.0000	7/18/2001 9:15	31.6	60	4.41	6.67	161.1	11.4
7/18/2001	93000	0.3750	0.0208	0.0000	7/18/2001 9:30	31.57	58.8	4.32	6.66	161.3	11.4
7/18/2001	94500	0.3750	0.0313	0.0000	7/18/2001 9:45	31.57	56.8	4.17	6.66	161.3	11.4
7/18/2001	100000	0.4167	0.0000	0.0000	7/18/2001 10:00	31.56	56.3	4.14	6.66	161.6	11.4
7/18/2001	101500	0.4167	0.0104	0.0000	7/18/2001 10:15	31.6	56.7	4.17	6.65	161.4	11.4
7/18/2001	103000	0.4167	0.0208	0.0000	7/18/2001 10:30	31.58	55.7	4.1	6.66	161.5	11.4
7/18/2001	104500	0.4167	0.0313	0.0000	7/18/2001 10:45	31.71	57.2	4.2	6.67	161.4	11.4
7/18/2001	110000	0.4583	0.0000	0.0000	7/18/2001 11:00	31.62	55.3	4.06	6.66	161.6	11.3
7/18/2001	111500	0.4583	0.0104	0.0000	7/18/2001 11:15	31.8	58.8	4.31	6.67	161.5	11.4
7/18/2001	113000	0.4583	0.0208	0.0000	7/18/2001 11:30	31.7	56.7	4.16	6.65	161.5	11.4
7/18/2001	114500	0.4583	0.0313	0.0000	7/18/2001 11:45	31.73	57.1	4.19	6.66	161.5	11.4
7/18/2001	120000	0.5000	0.0000	0.0000	7/18/2001 12:00	31.82	60.1	4.4	6.67	160.9	11.4
7/18/2001	121500	0.5000	0.0104	0.0000	7/18/2001 12:15	31.99	62.2	4.54	6.69	161.1	11.3
7/18/2001	123000	0.5000	0.0208	0.0000	7/18/2001 12:30	31.9	60.1	4.39	6.68	161.1	11.4
7/18/2001	124500	0.5000	0.0313	0.0000	7/18/2001 12:45	31.91	60.6	4.43	6.69	160.8	11.3
7/18/2001	130000	0.5417	0.0000	0.0000	7/18/2001 13:00	31.79	59.8	4.38	6.67	160.5	11.4
7/18/2001	131500	0.5417	0.0104	0.0000	7/18/2001 13:15	32	62.2	4.54	6.69	160.3	11.4
7/18/2001	133000	0.5417	0.0208	0.0000	7/18/2001 13:30	32.11	62.7	4.57	6.73	160.4	11.4
7/18/2001	134500	0.5417	0.0313	0.0000	7/18/2001 13:45	32.52	67.2	4.86	6.74	160.4	11.3
7/18/2001	140000	0.5833	0.0000	0.0000	7/18/2001 14:00	32.41	66.9	4.85	6.75	159.3	11.4
7/18/2001	141500	0.5833	0.0104	0.0000	7/18/2001 14:15	31.88	58.6	4.29	6.69	160.1	11.4
7/18/2001	143000	0.5833	0.0208	0.0000	7/18/2001 14:30	32.07	63.7	4.64	6.7	159.2	11.3
7/18/2001	144500	0.5833	0.0313	0.0000	7/18/2001 14:45	32.06	62.6	4.57	6.68	159.2	11.4
7/18/2001	150000	0.6250	0.0000	0.0000	7/18/2001 15:00	31.81	57.7	4.23	6.67	159.6	11.4
7/18/2001	151500	0.6250	0.0104	0.0000	7/18/2001 15:15	31.73	57.3	4.2	6.66	158.4	11.3
7/18/2001	153000	0.6250	0.0208	0.0000	7/18/2001 15:30	32.03	62.4	4.56	6.68	158.3	11.4
7/18/2001	154500	0.6250	0.0313	0.0000	7/18/2001 15:45	31.81	58.6	4.29	6.66	157.8	11.4
7/18/2001	160000	0.6667	0.0000	0.0000	7/18/2001 16:00	32.25	71.6	5.21	6.75	154.6	11.4
7/18/2001	161500	0.6667	0.0104	0.0000	7/18/2001 16:15	33.18	87.9	6.29	6.91	154.1	11.4
7/18/2001	163000	0.6667	0.0208	0.0000	7/18/2001 16:30	32.66	70.6	5.1	6.85	155.3	11.4
7/18/2001	164500	0.6667	0.0313	0.0000	7/18/2001 16:45	32.73	85.4	6.16	6.89	152.2	11.4
7/18/2001	170000	0.7083	0.0000	0.0000	7/18/2001 17:00	33.36	98.9	7.06	7.02	152.5	11.4
7/18/2001	171500	0.7083	0.0104	0.0000	7/18/2001 17:15	32.78	79.1	5.7	6.81	154.8	11.3
7/18/2001	173000	0.7083	0.0208	0.0000	7/18/2001 17:30	32.35	75.8	5.5	6.76	152.3	11.3
7/18/2001	174500	0.7083	0.0313	0.0000	7/18/2001 17:45	33.44	95.3	6.79	6.92	151.3	11.3
7/18/2001	180000	0.7500	0.0000	0.0000	7/18/2001 18:00	32.41	78.3	5.68	6.85	150	11.4
7/18/2001	181500	0.7500	0.0104	0.0000	7/18/2001 18:15	33.11	94.5	6.77	6.91	150.5	11.4
7/18/2001	183000	0.7500	0.0208	0.0000	7/18/2001 18:30	32.79	78.7	5.67	6.77	152.3	11.3
7/18/2001	184500	0.7500	0.0313	0.0000	7/18/2001 18:45	33.27	90.5	6.47	6.96	150.3	11.4
7/18/2001	190000	0.7917	0.0000	0.0000	7/18/2001 19:00	32.82	76.8	5.53	6.83	148.9	11.4
7/18/2001	191500	0.7917	0.0104	0.0000	7/18/2001 19:15	32.71	84.9	6.13	6.88	149.4	11.3

7/18/2001	193000	0.7917	0.0208	0.0000	7/18/2001 19:30	33.01	89.9	6.45	6.93	148.9	11.4
7/18/2001	194500	0.7917	0.0313	0.0000	7/18/2001 19:45	32.16	69.6	5.06	6.77	150.1	11.4
7/18/2001	200000	0.8333	0.0000	0.0000	7/18/2001 20:00	32.77	83.4	6.01	6.83	148.7	11.4
7/18/2001	201500	0.8333	0.0104	0.0000	7/18/2001 20:15	33.21	93.9	6.72	6.96	149.6	11.4
7/18/2001	203000	0.8333	0.0208	0.0000	7/18/2001 20:30	33.14	94.2	6.75	6.98	147.6	11.4
7/18/2001	204500	0.8333	0.0313	0.0000	7/18/2001 20:45	32.75	83.5	6.02	6.86	148.8	11.4
7/18/2001	210000	0.8750	0.0000	0.0000	7/18/2001 21:00	33.19	94.7	6.78	7	149.3	11.4
7/18/2001	211500	0.8750	0.0104	0.0000	7/18/2001 21:15	32.99	89.9	6.45	6.93	147.9	11.4
7/18/2001	213000	0.8750	0.0208	0.0000	7/18/2001 21:30	33.64	116.5	8.28	7.6	147	11.4
7/18/2001	214500	0.8750	0.0313	0.0000	7/18/2001 21:45	33.26	103.5	7.4	7.18	147.8	11.4
7/18/2001	220000	0.9167	0.0000	0.0000	7/18/2001 22:00	32.96	93.1	6.69	6.99	147.9	11.4
7/18/2001	221500	0.9167	0.0104	0.0000	7/18/2001 22:15	33.21	105.6	7.55	7.13	147.7	11.4
7/18/2001	223000	0.9167	0.0208	0.0000	7/18/2001 22:30	33.14	110.7	7.93	7.36	146.5	11.4
7/18/2001	224500	0.9167	0.0313	0.0000	7/18/2001 22:45	32.97	108.3	7.78	7.37	146.4	11.4
7/18/2001	230000	0.9583	0.0000	0.0000	7/18/2001 23:00	32.91	105.9	7.61	7.29	147.5	11.4
7/18/2001	231500	0.9583	0.0104	0.0000	7/18/2001 23:15	32.66	95.6	6.9	7.08	147.4	11.3
7/18/2001	233000	0.9583	0.0208	0.0000	7/18/2001 23:30	32.56	95.3	6.89	7.03	146.2	11.4
7/18/2001	234500	0.9583	0.0313	0.0000	7/18/2001 23:45	32.53	95.2	6.89	7.02	146	11.3
7/19/2001	0	0.0000	0.0000	0.0000	7/19/2001 0:00	32.51	93.9	6.8	7	146	11.4
7/19/2001	1500	0.0000	0.0104	0.0000	7/19/2001 0:15	32.41	90.9	6.59	6.98	146	11.4
7/19/2001	3000	0.0000	0.0208	0.0000	7/19/2001 0:30	32.4	91.2	6.61	6.97	146	11.4
7/19/2001	4500	0.0000	0.0313	0.0000	7/19/2001 0:45	32.36	89.4	6.48	6.97	146.1	11.3
7/19/2001	10000	0.0417	0.0000	0.0000	7/19/2001 1:00	32.32	90.8	6.59	6.97	145.9	11.4
7/19/2001	11500	0.0417	0.0104	0.0000	7/19/2001 1:15	32.26	88.7	6.45	6.93	146.1	11.4
7/19/2001	13000	0.0417	0.0208	0.0000	7/19/2001 1:30	32.19	82.2	5.98	6.87	145.7	11.4
7/19/2001	14500	0.0417	0.0313	0.0000	7/19/2001 1:45	32.23	81.3	5.91	6.84	145.5	11.4
7/19/2001	20000	0.0833	0.0000	0.0000	7/19/2001 2:00	32.24	84.2	6.12	6.88	145.2	11.4
7/19/2001	21500	0.0833	0.0104	0.0000	7/19/2001 2:15	32.24	84	6.11	6.89	145.1	11.4
7/19/2001	23000	0.0833	0.0208	0.0000	7/19/2001 2:30	32.18	81.5	5.94	6.86	145.3	11.4
7/19/2001	24500	0.0833	0.0313	0.0000	7/19/2001 2:45	32.2	81.2	5.91	6.86	145.1	11.3
7/19/2001	30000	0.1250	0.0000	0.0000	7/19/2001 3:00	32.21	81.5	5.93	6.85	144.9	11.4
7/19/2001	31500	0.1250	0.0104	0.0000	7/19/2001 3:15	32.1	77.3	5.63	6.84	145.2	11.4
7/19/2001	33000	0.1250	0.0208	0.0000	7/19/2001 3:30	32.22	82.2	5.98	6.85	144.7	11.4
7/19/2001	34500	0.1250	0.0313	0.0000	7/19/2001 3:45	32.13	79.3	5.78	6.84	144.8	11.4
7/19/2001	40000	0.1667	0.0000	0.0000	7/19/2001 4:00	32.11	77.8	5.67	6.81	144.7	11.3
7/19/2001	41500	0.1667	0.0104	0.0000	7/19/2001 4:15	32.1	78.7	5.74	6.83	144.8	11.4
7/19/2001	43000	0.1667	0.0208	0.0000	7/19/2001 4:30	32.06	77.1	5.62	6.82	144.6	11.4
7/19/2001	44500	0.1667	0.0313	0.0000	7/19/2001 4:45	32.04	77.3	5.64	6.81	144.7	11.4
7/19/2001	50000	0.2083	0.0000	0.0000	7/19/2001 5:00	32.03	76.2	5.56	6.8	144.6	11.4
7/19/2001	51500	0.2083	0.0104	0.0000	7/19/2001 5:15	31.95	73.4	5.36	6.77	144.9	11.3
7/19/2001	53000	0.2083	0.0208	0.0000	7/19/2001 5:30	31.94	73	5.33	6.77	144.7	11.4
7/19/2001	54500	0.2083	0.0313	0.0000	7/19/2001 5:45	31.9	70.7	5.17	6.75	144.9	11.4

7/19/2001	60000	0.2500	0.0000	0.0000	7/19/2001 6:00	31.9	72.5	5.3	6.76	144.8	11.4
					Maximum	33.83	116.5	8.28	7.6	161.60	11.5
					Average	32.25	75.2	5.46	6.8	155.71	11.4
					Minimum	31.56	55.3	4.06	6.7	144.60	11.0

DataSonde 4a 37755
Log File Name : Ouachita River Site 9
Setup Date (MMDDYY) : 071601
Setup Time (HHMMSS) : 090556
Starting Date (MMDDYY) : 071601
Starting Time (HHMMSS) : 180000
Stopping Date (MMDDYY) : 071901
Stopping Time (HHMMSS) : 140000
Interval (HHMMSS) : 001500
Sensor warmup (HHMMSS) : 000200
Circltr warmup (HHMMSS) : 000200

Date MMDDYY	Time HHMMSS				Date & Time	Temp Øc	DO% Sat	DO mg/l	SpCond Æs/cm	Ph Units	Ibatt Volts
7/17/2001	160000	0.6667	0.0000	0.0000	7/17/2001 16:00	32.56	69.9	5.06	133.1	6.74	11.5
7/17/2001	161500	0.6667	0.0104	0.0000	7/17/2001 16:15	32.6	71.9	5.2	133	6.75	11.6
7/17/2001	163000	0.6667	0.0208	0.0000	7/17/2001 16:30	32.52	70.2	5.08	132.9	6.74	11.6
7/17/2001	164500	0.6667	0.0313	0.0000	7/17/2001 16:45	32.61	73	5.28	132.9	6.71	11.7
7/17/2001	170000	0.7083	0.0000	0.0000	7/17/2001 17:00	32.55	71.1	5.15	133.1	6.69	11.6
7/17/2001	171500	0.7083	0.0104	0.0000	7/17/2001 17:15	32.47	70.4	5.1	133	6.71	11.6
7/17/2001	173000	0.7083	0.0208	0.0000	7/17/2001 17:30	32.47	71.8	5.2	133.1	6.72	11.5
7/17/2001	174500	0.7083	0.0313	0.0000	7/17/2001 17:45	32.58	74.5	5.39	133	6.77	11.6
7/17/2001	180000	0.7500	0.0000	0.0000	7/17/2001 18:00	32.28	69.9	5.08	133.1	6.72	11.6
7/17/2001	181500	0.7500	0.0104	0.0000	7/17/2001 18:15	32.6	78.8	5.7	132.9	6.75	11.6
7/17/2001	183000	0.7500	0.0208	0.0000	7/17/2001 18:30	32.31	71.1	5.17	132.9	6.7	11.6
7/17/2001	184500	0.7500	0.0313	0.0000	7/17/2001 18:45	32.28	69.1	5.02	133.2	6.7	11.6
7/17/2001	190000	0.7917	0.0000	0.0000	7/17/2001 19:00	32.46	73.3	5.31	133	6.73	11.5
7/17/2001	191500	0.7917	0.0104	0.0000	7/17/2001 19:15	32.68	81.3	5.87	132.8	6.8	11.7
7/17/2001	193000	0.7917	0.0208	0.0000	7/17/2001 19:30	32.65	80.8	5.83	132.8	6.79	11.6
7/17/2001	194500	0.7917	0.0313	0.0000	7/17/2001 19:45	32.72	84.3	6.08	132.8	6.84	11.6
7/17/2001	200000	0.8333	0.0000	0.0000	7/17/2001 20:00	32.55	79	5.72	133	6.79	11.5
7/17/2001	201500	0.8333	0.0104	0.0000	7/17/2001 20:15	32.65	83.9	6.06	133	6.84	11.6
7/17/2001	203000	0.8333	0.0208	0.0000	7/17/2001 20:30	32.47	77.6	5.62	133	6.8	11.7
7/17/2001	204500	0.8333	0.0313	0.0000	7/17/2001 20:45	32.46	76.8	5.56	133.1	6.74	11.5
7/17/2001	210000	0.8750	0.0000	0.0000	7/17/2001 21:00	32.21	67.9	4.94	133.3	6.69	11.6
7/17/2001	211500	0.8750	0.0104	0.0000	7/17/2001 21:15	32.11	64	4.66	133.6	6.62	11.6
7/17/2001	213000	0.8750	0.0208	0.0000	7/17/2001 21:30	31.92	57.5	4.2	133.8	6.59	11.6
7/17/2001	214500	0.8750	0.0313	0.0000	7/17/2001 21:45	31.98	57.6	4.21	133.7	6.6	11.6
7/17/2001	220000	0.9167	0.0000	0.0000	7/17/2001 22:00	31.96	58.5	4.28	133.7	6.6	11.6
7/17/2001	221500	0.9167	0.0104	0.0000	7/17/2001 22:15	31.9	57.7	4.22	133.7	6.58	11.5

7/17/2001	223000	0.9167	0.0208	0.0000	7/17/2001 22:30	31.88	56.9	4.16	133.7	6.58	11.6
7/17/2001	224500	0.9167	0.0313	0.0000	7/17/2001 22:45	31.95	61.3	4.48	133.7	6.61	11.6
7/17/2001	230000	0.9583	0.0000	0.0000	7/17/2001 23:00	31.94	64.9	4.74	133.7	6.65	11.6
7/17/2001	231500	0.9583	0.0104	0.0000	7/17/2001 23:15	31.88	67.8	4.96	133.6	6.67	11.6
7/17/2001	233000	0.9583	0.0208	0.0000	7/17/2001 23:30	31.85	62.7	4.59	133.7	6.63	11.6
7/17/2001	234500	0.9583	0.0313	0.0000	7/17/2001 23:45	31.95	66.6	4.86	133.7	6.66	11.6
7/18/2001	0	0.0000	0.0000	0.0000	7/18/2001 0:00	31.79	55.7	4.08	134	6.57	11.6
7/18/2001	1500	0.0000	0.0104	0.0000	7/18/2001 0:15	31.77	57	4.18	134	6.6	11.6
7/18/2001	3000	0.0000	0.0208	0.0000	7/18/2001 0:30	31.86	66.1	4.84	133.7	6.64	11.5
7/18/2001	4500	0.0000	0.0313	0.0000	7/18/2001 0:45	31.82	62	4.54	133.8	6.63	11.6
7/18/2001	10000	0.0417	0.0000	0.0000	7/18/2001 1:00	31.85	60.8	4.45	133.8	6.62	11.6
7/18/2001	11500	0.0417	0.0104	0.0000	7/18/2001 1:15	31.89	66.3	4.85	133.7	6.65	11.6
7/18/2001	13000	0.0417	0.0208	0.0000	7/18/2001 1:30	31.89	64.1	4.69	134	6.64	11.5
7/18/2001	14500	0.0417	0.0313	0.0000	7/18/2001 1:45	31.85	59.9	4.39	133.9	6.6	11.5
7/18/2001	20000	0.0833	0.0000	0.0000	7/18/2001 2:00	31.83	62	4.54	134	6.63	11.6
7/18/2001	21500	0.0833	0.0104	0.0000	7/18/2001 2:15	31.83	65.3	4.78	133.9	6.64	11.5
7/18/2001	23000	0.0833	0.0208	0.0000	7/18/2001 2:30	31.82	64.3	4.71	134	6.63	11.5
7/18/2001	24500	0.0833	0.0313	0.0000	7/18/2001 2:45	31.76	58.2	4.26	134	6.61	11.6
7/18/2001	30000	0.1250	0.0000	0.0000	7/18/2001 3:00	31.75	64.4	4.72	134.1	6.63	11.6
7/18/2001	31500	0.1250	0.0104	0.0000	7/18/2001 3:15	31.71	63	4.62	134.3	6.62	11.6
7/18/2001	33000	0.1250	0.0208	0.0000	7/18/2001 3:30	31.66	60.6	4.45	134.4	6.6	11.6
7/18/2001	34500	0.1250	0.0313	0.0000	7/18/2001 3:45	31.6	60.7	4.46	134.6	6.6	11.6
7/18/2001	40000	0.1667	0.0000	0.0000	7/18/2001 4:00	31.59	60.2	4.42	134.4	6.6	11.6
7/18/2001	41500	0.1667	0.0104	0.0000	7/18/2001 4:15	31.54	60.4	4.44	134.3	6.6	11.6
7/18/2001	43000	0.1667	0.0208	0.0000	7/18/2001 4:30	31.51	59.6	4.39	134.4	6.6	11.4
7/18/2001	44500	0.1667	0.0313	0.0000	7/18/2001 4:45	31.48	60.3	4.44	134.4	6.6	11.5
7/18/2001	50000	0.2083	0.0000	0.0000	7/18/2001 5:00	31.44	59.8	4.4	134.6	6.6	11.5
7/18/2001	51500	0.2083	0.0104	0.0000	7/18/2001 5:15	31.42	58.7	4.33	134.6	6.59	11.5
7/18/2001	53000	0.2083	0.0208	0.0000	7/18/2001 5:30	31.39	56.5	4.17	134.6	6.58	11.5
7/18/2001	54500	0.2083	0.0313	0.0000	7/18/2001 5:45	31.36	53.9	3.98	134.6	6.56	11.6
7/18/2001	60000	0.2500	0.0000	0.0000	7/18/2001 6:00	31.33	51.2	3.78	134.7	6.54	11.5
7/18/2001	61500	0.2500	0.0104	0.0000	7/18/2001 6:15	31.3	51.2	3.78	134.7	6.54	11.5
7/18/2001	63000	0.2500	0.0208	0.0000	7/18/2001 6:30	31.29	50.1	3.7	134.7	6.53	11.5
7/18/2001	64500	0.2500	0.0313	0.0000	7/18/2001 6:45	31.24	49.9	3.69	134.8	6.53	11.5
7/18/2001	70000	0.2917	0.0000	0.0000	7/18/2001 7:00	31.25	48.3	3.57	134.6	6.52	11.5
7/18/2001	71500	0.2917	0.0104	0.0000	7/18/2001 7:15	31.22	47.6	3.52	135	6.51	11.5
7/18/2001	73000	0.2917	0.0208	0.0000	7/18/2001 7:30	31.23	46.9	3.47	134.7	6.51	11.5
7/18/2001	74500	0.2917	0.0313	0.0000	7/18/2001 7:45	31.23	44.9	3.32	134.9	6.5	11.5
7/18/2001	80000	0.3333	0.0000	0.0000	7/18/2001 8:00	31.22	44.3	3.28	134.9	6.5	11.6
7/18/2001	81500	0.3333	0.0104	0.0000	7/18/2001 8:15	31.23	43.6	3.22	134.9	6.49	11.5
7/18/2001	83000	0.3333	0.0208	0.0000	7/18/2001 8:30	31.23	43.3	3.21	135	6.49	11.5
7/18/2001	84500	0.3333	0.0313	0.0000	7/18/2001 8:45	31.25	44.5	3.29	135.1	6.5	11.6

7/18/2001	90000	0.3750	0.0000	0.0000	7/18/2001 9:00	31.26	45.5	3.37	134.9	6.5	11.5
7/18/2001	91500	0.3750	0.0104	0.0000	7/18/2001 9:15	31.26	44.6	3.3	135	6.5	11.4
7/18/2001	93000	0.3750	0.0208	0.0000	7/18/2001 9:30	31.28	44.6	3.3	135.1	6.5	11.5
7/18/2001	94500	0.3750	0.0313	0.0000	7/18/2001 9:45	31.3	45	3.33	135.1	6.51	11.5
7/18/2001	100000	0.4167	0.0000	0.0000	7/18/2001 10:00	31.29	44.2	3.27	135.1	6.5	11.5
7/18/2001	101500	0.4167	0.0104	0.0000	7/18/2001 10:15	31.29	45.1	3.33	135.1	6.5	11.4
7/18/2001	103000	0.4167	0.0208	0.0000	7/18/2001 10:30	31.39	47	3.46	135.1	6.52	11.5
7/18/2001	104500	0.4167	0.0313	0.0000	7/18/2001 10:45	31.4	46.9	3.46	135.2	6.51	11.5
7/18/2001	110000	0.4583	0.0000	0.0000	7/18/2001 11:00	31.4	47	3.47	135.1	6.52	11.5
7/18/2001	111500	0.4583	0.0104	0.0000	7/18/2001 11:15	31.33	46	3.4	135.1	6.51	11.5
7/18/2001	113000	0.4583	0.0208	0.0000	7/18/2001 11:30	31.58	50.7	3.73	135.3	6.53	11.5
7/18/2001	114500	0.4583	0.0313	0.0000	7/18/2001 11:45	31.66	51.6	3.79	135.3	6.54	11.4
7/18/2001	120000	0.5000	0.0000	0.0000	7/18/2001 12:00	31.65	52.6	3.86	135.3	6.55	11.4
7/18/2001	121500	0.5000	0.0104	0.0000	7/18/2001 12:15	31.55	50	3.68	135.4	6.53	11.4
7/18/2001	123000	0.5000	0.0208	0.0000	7/18/2001 12:30	31.56	50.1	3.69	135.3	6.53	11.4
7/18/2001	124500	0.5000	0.0313	0.0000	7/18/2001 12:45	31.53	49.6	3.65	135.5	6.53	11.4
7/18/2001	130000	0.5417	0.0000	0.0000	7/18/2001 13:00	31.52	49.4	3.64	135.5	6.52	11.4
7/18/2001	131500	0.5417	0.0104	0.0000	7/18/2001 13:15	31.51	48.8	3.59	135.4	6.52	11.4
7/18/2001	133000	0.5417	0.0208	0.0000	7/18/2001 13:30	31.5	48.6	3.58	135.4	6.52	11.5
7/18/2001	134500	0.5417	0.0313	0.0000	7/18/2001 13:45	31.6	50.5	3.71	135.5	6.53	11.5
7/18/2001	140000	0.5833	0.0000	0.0000	7/18/2001 14:00	31.66	51.2	3.76	135.6	6.53	11.4
7/18/2001	141500	0.5833	0.0104	0.0000	7/18/2001 14:15	31.55	49.9	3.67	135.6	6.52	11.3
7/18/2001	143000	0.5833	0.0208	0.0000	7/18/2001 14:30	31.67	51	3.74	135.4	6.53	11.4
7/18/2001	144500	0.5833	0.0313	0.0000	7/18/2001 14:45	32.02	59.2	4.32	135.2	6.62	11.4
7/18/2001	150000	0.6250	0.0000	0.0000	7/18/2001 15:00	33.12	79.1	5.67	135.1	6.76	11.4
7/18/2001	151500	0.6250	0.0104	0.0000	7/18/2001 15:15	32.33	64.7	4.7	135.2	6.65	11.4
7/18/2001	153000	0.6250	0.0208	0.0000	7/18/2001 15:30	32.45	68.9	4.99	135.1	6.7	11.4
7/18/2001	154500	0.6250	0.0313	0.0000	7/18/2001 15:45	32.77	74.1	5.34	135	6.72	11.5
7/18/2001	160000	0.6667	0.0000	0.0000	7/18/2001 16:00	32.5	69.6	5.04	135.2	6.69	11.5
7/18/2001	161500	0.6667	0.0104	0.0000	7/18/2001 16:15	32.65	72.2	5.21	134.8	6.73	11.5
7/18/2001	163000	0.6667	0.0208	0.0000	7/18/2001 16:30	32.56	71.6	5.17	135	6.71	11.5
7/18/2001	164500	0.6667	0.0313	0.0000	7/18/2001 16:45	32.52	67.5	4.88	134.9	6.67	11.4
7/18/2001	170000	0.7083	0.0000	0.0000	7/18/2001 17:00	32.35	66.3	4.81	135.4	6.64	11.4
7/18/2001	171500	0.7083	0.0104	0.0000	7/18/2001 17:15	32.33	64.9	4.71	135.2	6.6	11.4
7/18/2001	173000	0.7083	0.0208	0.0000	7/18/2001 17:30	32.28	64.7	4.7	135.4	6.64	11.3
7/18/2001	174500	0.7083	0.0313	0.0000	7/18/2001 17:45	32.66	72.1	5.2	135.5	6.65	11.2
7/18/2001	180000	0.7500	0.0000	0.0000	7/18/2001 18:00	32.21	63.6	4.63	135.6	6.59	11.5
7/18/2001	181500	0.7500	0.0104	0.0000	7/18/2001 18:15	32.44	67.7	4.91	135.5	6.69	11.5
7/18/2001	183000	0.7500	0.0208	0.0000	7/18/2001 18:30	32.52	71.7	5.19	135.5	6.71	11.4
7/18/2001	184500	0.7500	0.0313	0.0000	7/18/2001 18:45	32.67	76.3	5.51	135.3	6.73	11.4
7/18/2001	190000	0.7917	0.0000	0.0000	7/18/2001 19:00	32.7	79.2	5.71	135.4	6.75	11.5
7/18/2001	191500	0.7917	0.0104	0.0000	7/18/2001 19:15	32.75	76.7	5.53	135.4	6.73	11.4

7/18/2001	193000	0.7917	0.0208	0.0000	7/18/2001 19:30	32.69	74.1	5.35	135.4	6.69	11.4
7/18/2001	194500	0.7917	0.0313	0.0000	7/18/2001 19:45	32.75	76.8	5.54	135.2	6.74	11.4
7/18/2001	200000	0.8333	0.0000	0.0000	7/18/2001 20:00	32.95	82.3	5.91	135.1	6.78	11.4
7/18/2001	201500	0.8333	0.0104	0.0000	7/18/2001 20:15	33.01	91.8	6.59	135	6.88	11.4
7/18/2001	203000	0.8333	0.0208	0.0000	7/18/2001 20:30	32.95	84.7	6.08	135.4	6.8	11.4
7/18/2001	204500	0.8333	0.0313	0.0000	7/18/2001 20:45	32.91	80.4	5.78	135.3	6.8	11.4
7/18/2001	210000	0.8750	0.0000	0.0000	7/18/2001 21:00	33.17	89.2	6.38	135.4	6.87	11.4
7/18/2001	211500	0.8750	0.0104	0.0000	7/18/2001 21:15	33.07	83.3	5.98	135.4	6.94	11.4
7/18/2001	213000	0.8750	0.0208	0.0000	7/18/2001 21:30	33.04	86.7	6.22	135.2	6.88	11.4
7/18/2001	214500	0.8750	0.0313	0.0000	7/18/2001 21:45	32.18	60	4.36	135.7	6.66	11.4
7/18/2001	220000	0.9167	0.0000	0.0000	7/18/2001 22:00	31.95	55.8	4.07	135.9	6.58	11.5
7/18/2001	221500	0.9167	0.0104	0.0000	7/18/2001 22:15	31.84	53.7	3.93	136.1	6.53	11.4
7/18/2001	223000	0.9167	0.0208	0.0000	7/18/2001 22:30	31.93	53.1	3.88	136.2	6.55	11.4
7/18/2001	224500	0.9167	0.0313	0.0000	7/18/2001 22:45	31.95	53.4	3.91	136.3	6.55	11.4
7/18/2001	230000	0.9583	0.0000	0.0000	7/18/2001 23:00	32.11	55.6	4.05	136.3	6.56	11.4
7/18/2001	231500	0.9583	0.0104	0.0000	7/18/2001 23:15	32.15	55.9	4.07	136.1	6.57	11.5
7/18/2001	233000	0.9583	0.0208	0.0000	7/18/2001 23:30	32.41	68.3	4.95	136	6.65	11.5
7/18/2001	234500	0.9583	0.0313	0.0000	7/18/2001 23:45	32.46	68.6	4.97	135.9	6.71	11.4
7/19/2001	0	0.0000	0.0000	0.0000	7/19/2001 0:00	32.68	81.9	5.91	135.7	6.82	11.4
7/19/2001	1500	0.0000	0.0104	0.0000	7/19/2001 0:15	32.47	63.1	4.57	136.1	6.67	11.4
7/19/2001	3000	0.0000	0.0208	0.0000	7/19/2001 0:30	32.79	86.2	6.21	135.7	6.84	11.5
7/19/2001	4500	0.0000	0.0313	0.0000	7/19/2001 0:45	32.65	72.2	5.22	135.9	6.69	11.4
7/19/2001	10000	0.0417	0.0000	0.0000	7/19/2001 1:00	32.5	68.3	4.94	136.2	6.7	11.5
7/19/2001	11500	0.0417	0.0104	0.0000	7/19/2001 1:15	32.45	70.6	5.12	136.3	6.66	11.5
7/19/2001	13000	0.0417	0.0208	0.0000	7/19/2001 1:30	32.41	69.2	5.02	136.7	6.69	11.4
7/19/2001	14500	0.0417	0.0313	0.0000	7/19/2001 1:45	32.4	68.4	4.96	136.7	6.65	11.4
7/19/2001	20000	0.0833	0.0000	0.0000	7/19/2001 2:00	32.2	56.6	4.12	136.9	6.55	11.4
7/19/2001	21500	0.0833	0.0104	0.0000	7/19/2001 2:15	32.3	59.8	4.35	136.9	6.6	11.5
7/19/2001	23000	0.0833	0.0208	0.0000	7/19/2001 2:30	32.21	58	4.22	137.1	6.57	11.4
7/19/2001	24500	0.0833	0.0313	0.0000	7/19/2001 2:45	32.19	60.5	4.4	136.9	6.57	11.4
7/19/2001	30000	0.1250	0.0000	0.0000	7/19/2001 3:00	32.2	58.3	4.24	137.2	6.6	11.4
7/19/2001	31500	0.1250	0.0104	0.0000	7/19/2001 3:15	32.09	54.7	3.99	137.5	6.57	11.4
7/19/2001	33000	0.1250	0.0208	0.0000	7/19/2001 3:30	32.12	55.8	4.07	137.5	6.57	11.4
7/19/2001	34500	0.1250	0.0313	0.0000	7/19/2001 3:45	32.11	56.4	4.11	137.6	6.58	11.4
7/19/2001	40000	0.1667	0.0000	0.0000	7/19/2001 4:00	32.06	55.6	4.05	137.4	6.58	11.4
7/19/2001	41500	0.1667	0.0104	0.0000	7/19/2001 4:15	31.93	52	3.8	137.5	6.54	11.4
7/19/2001	43000	0.1667	0.0208	0.0000	7/19/2001 4:30	31.99	57.5	4.2	137.3	6.62	11.5
7/19/2001	44500	0.1667	0.0313	0.0000	7/19/2001 4:45	31.83	50.7	3.71	137.6	6.55	11.4
7/19/2001	50000	0.2083	0.0000	0.0000	7/19/2001 5:00	31.79	50.2	3.68	137.3	6.55	11.4
7/19/2001	51500	0.2083	0.0104	0.0000	7/19/2001 5:15	31.71	49.1	3.6	137.5	6.53	11.4
7/19/2001	53000	0.2083	0.0208	0.0000	7/19/2001 5:30	31.68	50.3	3.69	137.2	6.55	11.4
7/19/2001	54500	0.2083	0.0313	0.0000	7/19/2001 5:45	31.81	63.8	4.67	137.5	6.62	11.4

7/19/2001	60000	0.2500	0.0000	0.0000	7/19/2001 6:00	31.79	65.1	4.77	137.6	6.65	11.4
					Maximum	33.17	91.8	6.59	137.6	6.94	11.7
					Average	32.03	62.2	4.53	135.0	6.63	11.5
					Minimum	31.22	43.3	3.21	132.8	6.49	11.2

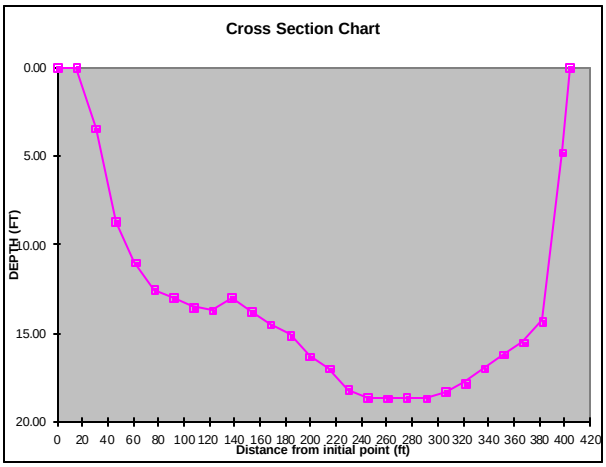
DISCHARGE AND CROSS SECTIONS

STREAM CROSS-SECTION SPREADSHEET

Site Number: OR 2 **Subsegment:** 080101 **Waterbody:** Ouachita River
Site Description: 100yds downstream of boat ramp @ Chapman Rd
Type of Equipment: ☐ Fathometer ☑ Hydrotrac ☐ Manual
Initial Bank: ☐ RDB ☑ LDB
Tapedown: N/A
Guage Height: N/A
Date: 7/18/2001

WIDTH[1] (ft):	404.00
AREA[2] (ft²):	5519.82
AVG. DEPTH[3](ft):	13.66

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6 & 7]
1	0.0	7.65	0.00	0.00	
2	15.3	15.30	0.00	0.00	0.00%
3	30.6	15.30	3.40	52.02	0.94%
4	45.9	15.30	8.70	133.11	2.41%
5	61.2	15.30	11.00	168.30	3.05%
6	76.5	15.30	12.50	191.25	3.46%
7	91.8	15.30	13.00	198.90	3.60%
8	107.1	15.30	13.50	206.55	3.74%
9	122.4	15.30	13.70	209.61	3.80%
10	137.7	15.30	13.00	198.90	3.60%
11	153.0	15.30	13.80	211.14	3.83%
12	168.3	15.30	14.50	221.85	4.02%
13	183.6	15.30	15.10	231.03	4.19%
14	198.9	15.30	16.30	249.39	4.52%
15	214.2	15.30	17.00	260.10	4.71%
16	229.5	15.30	18.20	278.46	5.04%
17	244.8	15.30	18.60	284.58	5.16%
18	260.1	15.30	18.70	286.11	5.18%
19	275.4	15.30	18.60	284.58	5.16%
20	290.7	15.30	18.70	286.11	5.18%
21	306.0	15.30	18.30	279.99	5.07%
22	321.3	15.30	17.80	272.34	4.93%
23	336.6	15.30	17.00	260.10	4.71%
24	351.9	15.30	16.20	247.86	4.49%
25	367.2	15.30	15.50	237.15	4.30%
26	382.5	15.30	14.30	218.79	3.96%
27	397.8	10.75	4.80	51.60	0.93%
28	404.0	3.10	0.00	0.00	0.00%
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
	Total	404.00		5519.82	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	R. Gianelloni	Data Inputed by / Date:	C. Schwartzenburg / 07/23/01
Notetaker/Recorder:	C. Schwartzenburg	Data Input Checked by / Date:	J. Phillippe / 07/23/01
Other:	D. Lanthier		

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

STREAM CROSS-SECTION SPREADSHEET

Site Number: OR 3 **Subsegment:** 080101 **Waterbody:** Ouachita River
Site Description: 1.25 miles downstream of Moon Lake
Type of Equipment: ☐ Fathometer ☑ Hydrotrac ☐ Manual
Initial Bank: ☐ RDB ☑ LDB
Tapedown: N/A
Guage Height: N/A
Date: 7/18/2001

WIDTH[1] (ft):	467.00
AREA[2] (ft^2):	10643.77
AVG. DEPTH[3](ft):	22.79

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area [6 & 7]
1	0.0	12.83	0.00	0.00	
2	25.7	25.66	8.00	205.28	1.93%
3	51.3	25.66	17.10	438.79	4.12%
4	77.0	25.66	24.70	633.80	5.95%
5	102.6	25.66	28.50	731.31	6.87%
6	128.3	25.66	28.80	739.01	6.94%
7	154.0	25.66	28.30	726.18	6.82%
8	179.6	25.66	27.60	708.22	6.65%
9	205.3	25.66	28.00	718.48	6.75%
10	230.9	25.66	27.20	697.95	6.56%
11	256.6	25.66	26.80	687.69	6.46%
12	282.3	25.66	28.40	728.74	6.85%
13	307.9	25.66	27.20	697.95	6.56%
14	333.6	25.66	29.20	749.27	7.04%
15	359.2	25.66	26.20	672.29	6.32%
16	384.9	25.66	25.10	644.07	6.05%
17	410.6	25.66	21.30	546.56	5.14%
18	436.2	25.66	12.40	318.18	2.99%
19	461.9	15.39	0.00	0.00	0.00%
20	467.0	2.56	0.00	0.00	0.00%
21					
22					
23					
24					
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26					
27					
28					
29					
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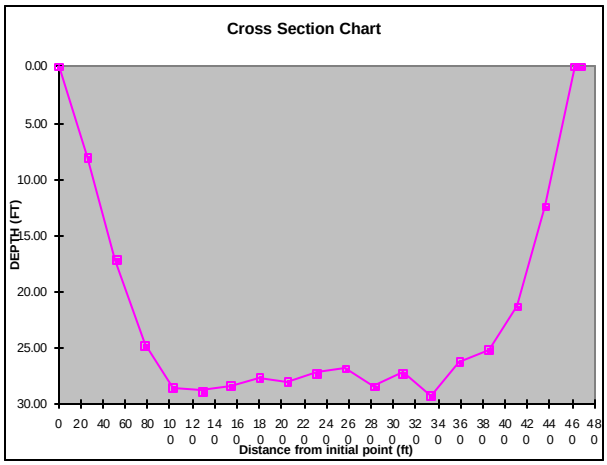
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
	Total	467.00		10643.77	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	R. Gianelloni	Data Inputed by / Date:	C. Schwartzenburg / 07/23/01
Notetaker/Recorder:	C. Schwartzenburg	Data Input Checked by / Date:	J. Phillippe / 07/23/01
Other:	D. Lanthier		

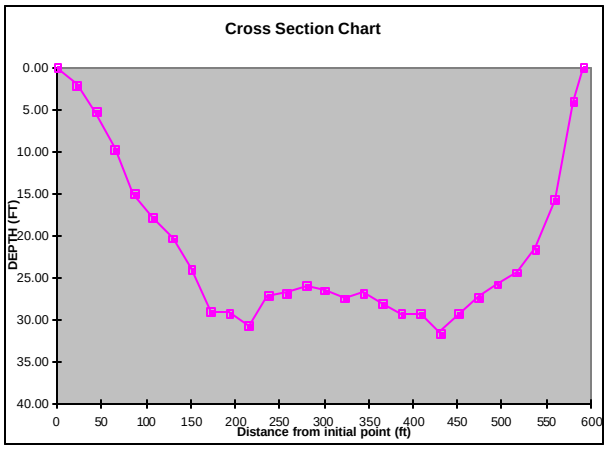
Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

STREAM CROSS-SECTION SPREADSHEET

Site Number: OR 4 **Subsegment:** 080101 **Waterbody:** Ouachita River
Site Description: 600 yds upstream of confluence w/trib # 12
Type of Equipment: ☑ Fathometer ☐ Hydrotrac ☐ Manual
Initial Bank: ☐ RDB ☑ LDB
Tapedown:
Guage Height:
Date: 7/20/2001

WIDTH[1] (ft):	592.00
AREA[2] (ft^2):	13101.08
AVG. DEPTH[3] (ft):	22.13

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6 & 7]
1	0.0	10.73	0.00	0.00	
2	21.5	21.50	2.10	45.15	0.34%
3	43.0	21.53	5.20	111.93	0.85%
4	64.5	21.50	9.70	208.55	1.59%
5	86.0	21.50	15.00	322.50	2.46%
6	107.5	21.50	17.90	384.85	2.94%
7	129.0	21.50	20.30	436.45	3.33%
8	150.5	21.50	24.00	516.00	3.94%
9	172.0	21.50	29.00	623.50	4.76%
10	193.5	21.50	29.20	627.80	4.79%
11	215.0	21.50	30.70	660.05	5.04%
12	236.5	21.50	27.20	584.80	4.46%
13	258.0	21.50	26.80	576.20	4.40%
14	279.5	21.50	25.90	556.85	4.25%
15	301.0	21.50	26.50	569.75	4.35%
16	322.5	21.50	27.50	591.25	4.51%
17	344.0	21.50	26.80	576.20	4.40%
18	365.5	21.50	28.10	604.15	4.61%
19	387.0	21.50	29.30	629.95	4.81%
20	408.5	21.50	29.30	629.95	4.81%
21	430.0	21.50	31.60	679.40	5.19%
22	451.5	21.50	29.30	629.95	4.81%
23	473.0	21.50	27.30	586.95	4.48%
24	494.5	21.50	25.80	554.70	4.23%
25	516.0	21.50	24.40	524.60	4.00%
26	537.5	21.50	21.60	464.40	3.54%
27	559.0	21.50	15.70	337.55	2.58%
28	580.5	16.50	4.10	67.65	0.52%
29	592.0	5.75	0.00	0.00	0.00%
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
	Total	592.00		13101.08	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Farlow	Data Inputed by / Date:	Garner 7/20/01
Notetaker/Recorder:	Brignac	Data Input Checked by / Date:	Brignac 7/20/01
Other:			

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

STREAM CROSS-SECTION SPREADSHEET

Site Number: QR 6 **Subsegment:** 080101 **Waterbody:** Ouachita River

Site Description: 3 miles upstream of confluence with Lake Lafitta

Type of Equipment: ☑ Fathometer ☐ Hydrotrac ☐ Manual

Initial Bank: ☐ RDB ☑ LDB

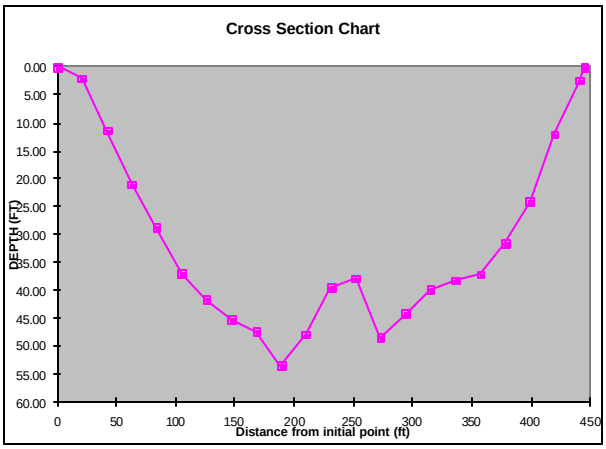
Tapedown:

Guage Height:

Date: 7/18/2001

WIDTH[1] (ft):	**445.00**
AREA[2] (ft²):	**14459.10**
AVG. DEPTH[3] (ft):	**32.49**

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6 & 7]
1	0.0	10.50	0.00	0.00	
2	21.0	21.00	2.00	42.00	0.29%
3	42.0	21.00	11.30	237.30	1.64%
4	63.0	21.00	21.00	441.00	3.05%
5	84.0	21.00	28.70	602.70	4.17%
6	105.0	21.00	36.90	774.90	5.36%
7	126.0	21.00	41.50	871.50	6.03%
8	147.0	21.00	45.20	949.20	6.56%
9	168.0	21.00	47.30	993.30	6.87%
10	189.0	21.00	53.40	1121.40	7.76%
11	210.0	21.00	47.70	1001.70	6.93%
12	231.0	21.00	39.40	827.40	5.72%
13	252.0	21.00	37.80	793.80	5.49%
14	273.0	21.00	48.30	1014.30	7.01%
15	294.0	21.00	44.00	924.00	6.39%
16	315.0	21.00	39.80	835.80	5.78%
17	336.0	21.00	38.10	800.10	5.53%
18	357.0	21.00	37.00	777.00	5.37%
19	378.0	21.00	31.60	663.60	4.59%
20	399.0	21.00	24.10	506.10	3.50%
21	420.0	21.00	12.00	252.00	1.74%
22	441.0	12.50	2.40	30.00	0.21%
23	445.0	2.00	0.00	0.00	0.00%
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
	Total	445.00		14459.10	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Farlow	**Data Inputed by / Date:**	Garner 7/20/01
Notetaker/Recorder:	Brignac	**Data Input Checked by / Date:**	Brignac 7/20/01
Other:			

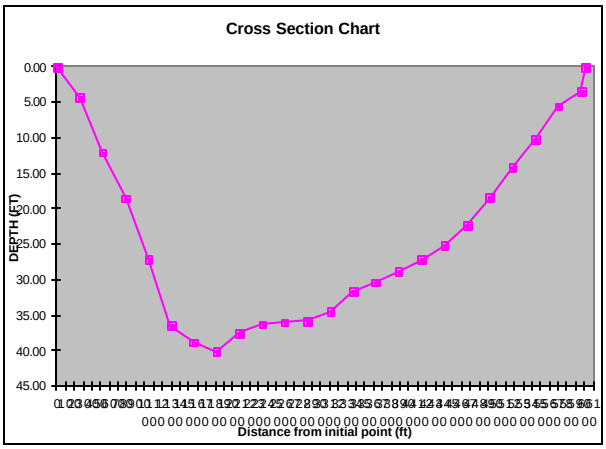
Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

STREAM CROSS-SECTION SPREADSHEET

Site Number: OR7 **Subsegment:** 080101 **Waterbody:** Ouachita River
Site Description: near Corey/downstream of Ferrand Lake
Type of Equipment: ☐ Fathometer ☑ Hydrotrac ☐ Manual
Initial Bank: ☑ RDB ☐ LDB
Tapedown: n/a
Guage Height: n/a
Date: 7/17/2001

WIDTH[1] (ft):	601.00
AREA[2] (ft²):	14838.32
AVG. DEPTH[3](ft):	24.69

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6 & 7]
1	0.0	12.95	0.00	0.00	
2	25.9	25.90	4.30	111.37	0.75%
3	51.8	25.90	12.00	310.80	2.09%
4	77.7	25.90	18.50	479.15	3.23%
5	103.6	25.90	27.00	699.30	4.71%
6	129.5	25.90	36.50	945.35	6.37%
7	155.4	25.90	38.80	1004.92	6.77%
8	181.3	25.90	40.10	1038.59	7.00%
9	207.2	25.90	37.50	971.25	6.55%
10	233.1	25.90	36.30	940.17	6.34%
11	259.0	25.90	36.00	932.40	6.28%
12	284.9	25.90	35.80	927.22	6.25%
13	310.8	25.90	34.50	893.55	6.02%
14	336.7	25.90	31.60	818.44	5.52%
15	362.6	25.90	30.30	784.77	5.29%
16	388.5	25.90	28.80	745.92	5.03%
17	414.4	25.90	27.20	704.48	4.75%
18	440.3	25.90	25.10	650.09	4.38%
19	466.2	25.90	22.30	577.57	3.89%
20	492.1	25.90	18.40	476.56	3.21%
21	518.0	25.90	14.20	367.78	2.48%
22	543.9	25.90	10.10	261.59	1.76%
23	569.8	25.90	5.50	142.45	0.96%
24	595.7	15.60	3.50	54.60	0.37%
25	601.0	2.65	0.00	0.00	0.00%
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
	Total	601.00		14838.32	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Champagne	Data Inputed by / Date:	7/20/2001
Notetaker/Recorder:	Baldwin	Data Input Checked by / Date:	Baldwin
Other:	Cooley		

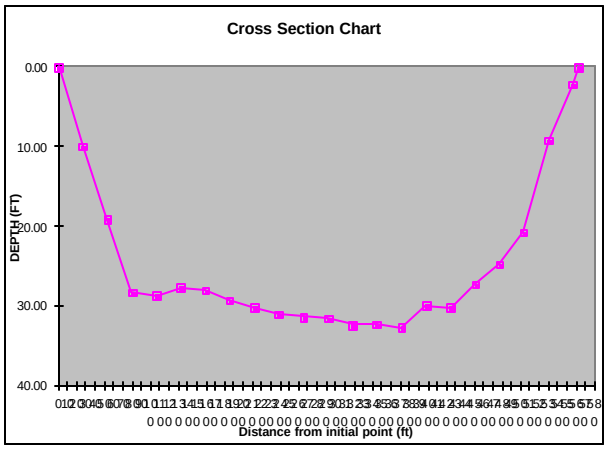
Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

STREAM CROSS-SECTION SPREADSHEET

Site Number: OR8 **Subsegment:** 080101 **Waterbody:** Ouachita River
Site Description: Northwest of Riverton/upstream of Riverton Lake
Type of Equipment: ☐ Fathometer ☑ Hydrotrac ☐ Manual
Initial Bank: ☑ RDB ☐ LDB
Tapedown: n/a
Guage Height: n/a
Date: 7/17/2001

WIDTH[1] (ft):	563.00
AREA[2] (ft²):	14179.90
AVG. DEPTH[3] (ft):	25.19

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6 & 7]
1	0.0	13.25	0.00	0.00	
2	26.5	26.50	9.90	262.35	1.85%
3	53.0	26.50	19.10	506.15	3.57%
4	79.5	26.50	28.20	747.30	5.27%
5	106.0	26.50	28.60	757.90	5.34%
6	132.5	26.50	27.60	731.40	5.16%
7	159.0	26.25	28.00	735.00	5.18%
8	185.0	26.50	29.20	773.80	5.46%
9	212.0	26.75	30.20	807.85	5.70%
10	238.5	26.50	31.00	821.50	5.79%
11	265.0	26.50	31.30	829.45	5.85%
12	291.5	26.50	31.50	834.75	5.89%
13	318.0	26.50	32.30	855.95	6.04%
14	344.5	26.50	32.20	853.30	6.02%
15	371.0	26.50	32.70	866.55	6.11%
16	397.5	26.50	29.90	792.35	5.59%
17	424.0	26.50	30.20	800.30	5.64%
18	450.5	26.50	27.20	720.80	5.08%
19	477.0	26.50	24.70	654.55	4.62%
20	503.5	26.50	20.70	548.55	3.87%
21	530.0	26.50	9.20	243.80	1.72%
22	556.5	16.50	2.20	36.30	0.26%
23	563.0	3.25	0.00	0.00	0.00%
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
	Total	563.00		14179.90	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Champagne	Data Inputed by / Date:	7/20/2001
Notetaker/Recorder:	Baldwin/Cooley	Data Input Checked by / Date:	Baldwin
Other:			

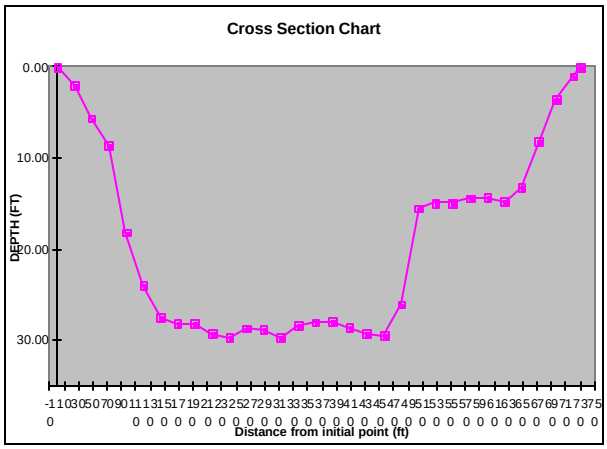
Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

STREAM CROSS-SECTION SPREADSHEET

Site Number: OR9 **Subsegment:** 080101 **Waterbody:** Ouachita River
Site Description: west of Riverton/upstream of Columbia Lock & Dam
Type of Equipment: ☐ Fathometer ☑ Hydrotrac ☐ Manual
Initial Bank: ☑ RDB ☐ LDB
Tapedown: n/a
Guage Height: n/a
Date: 7/17/2001

WIDTH[1] (ft):	730.00
AREA[2] (ft[2]):	14397.80
AVG. DEPTH[3] (ft):	19.72

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6 & 7]
1	0.0	12.00	0.00	0.00	
2	24.0	24.00	2.00	48.00	0.33%
3	48.0	24.00	5.60	134.40	0.93%
4	72.0	24.00	8.60	206.40	1.43%
5	96.0	24.00	18.10	434.40	3.02%
6	120.0	24.00	24.00	576.00	4.00%
7	144.0	24.00	27.40	657.60	4.57%
8	168.0	24.00	28.10	674.40	4.68%
9	192.0	24.00	28.10	674.40	4.68%
10	216.0	24.00	29.20	700.80	4.87%
11	240.0	24.00	29.60	710.40	4.93%
12	264.0	24.00	28.70	688.80	4.78%
13	288.0	24.00	28.80	691.20	4.80%
14	312.0	24.00	29.70	712.80	4.95%
15	336.0	24.00	28.40	681.60	4.73%
16	360.0	24.00	28.00	672.00	4.67%
17	384.0	24.00	27.90	669.60	4.65%
18	408.0	24.00	28.50	684.00	4.75%
19	432.0	24.00	29.20	700.80	4.87%
20	456.0	24.00	29.50	708.00	4.92%
21	480.0	24.00	26.00	624.00	4.33%
22	504.0	24.00	15.50	372.00	2.58%
23	528.0	24.00	14.90	357.60	2.48%
24	552.0	24.00	14.90	357.60	2.48%
25	576.0	24.00	14.40	345.60	2.40%
26	600.0	24.00	14.30	343.20	2.38%
27	624.0	24.00	14.80	355.20	2.47%
28	648.0	24.00	13.20	316.80	2.20%
29	672.0	24.00	8.20	196.80	1.37%
30	696.0	24.00	3.60	86.40	0.60%
31	720.0	17.00	1.00	17.00	0.12%
32	730.0	5.00	0.00	0.00	0.00%
33					
34					
35					
36					
37					
38					
39					
40					
	Total	730.00		14397.80	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Champagne	Data Inputed by / Date:	7/20/2001
Notetaker/Recorder:	Baldwin/cooley	Data Input Checked by / Date:	Baldwin
Other:			

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

STREAM DISCHARGE SPREADSHEET

Site Number: QR11B **Subsegment:** 080101 **Waterbod** Bayou Bartholomew
Site Description: 50 ft. upstream of LA Hwy 592 bridge
Type of Meter: ☑ Price A:A 1:1 ☐ Pygmy ☐ Price A:A 5:1 **Standard:** ☐ Standard 1 ☑ Standard 2
Type of Equipment: ☑ Wading ☐ Bridge Board ☐ Boat Board
Initial Bank: ☐ RDB ☑ LDB
Tapedown: 36.18 ft.
Guage Height:
Date: 7/18/2001
Start Time: 10:45 **End Time:** 11:20

WIDTH[1] (ft):	66.80
AREA[2] (ft²):	123.95
AVG. DEPTH[3] (ft):	1.86
DISCHARGE[4] (cfs):	62.39
AVG. VELOCITY[5] (fps):	0.50

Subsection	Distance from initial point (ft)	Width of element[6] (ft)	Depth of element (ft)	Area of element[7] (ft²)	Velocity of element (fps) .2D	.6D	.8D	Average[8]	Adjusted Angle[9]	Discharge through element[10] (cfs)	Element discharge at % of total discharge[11]
1	2.0	1.50	0.00	0.00		0.00		0.00		0.00	0.00%
2	5.0	3.00	0.55	1.65		0.31		0.31		0.51	0.82%
3	8.0	3.00	0.80	2.40		0.29		0.29		0.70	1.12%
4	11.0	3.00	1.20	3.60		0.41		0.41		1.48	2.37%
5	14.0	3.00	2.00	6.00		0.51		0.51		3.03	4.86%
6	17.0	3.00	2.00	6.00		0.57		0.57		3.40	5.44%
7	20.0	3.00	1.70	5.10		0.60		0.60		3.05	4.89%
8	23.0	3.00	2.00	6.00		0.55		0.55		3.32	5.33%
9	26.0	3.00	2.30	6.90		0.58		0.58		4.00	6.41%
10	29.0	3.00	2.40	7.20		0.59		0.59		4.26	6.83%
11	32.0	3.00	2.40	7.20		0.67		0.67		4.81	7.71%
12	35.0	3.00	2.40	7.20		0.60		0.60		4.33	6.94%
13	38.0	3.00	2.30	6.90		0.63		0.63		4.31	6.91%
14	41.0	3.00	2.30	6.90		0.51		0.51		3.54	5.67%
15	44.0	3.00	2.30	6.90		0.52		0.52		3.59	5.75%
16	47.0	3.00	2.50	7.50	0.64		0.43	0.53		3.98	6.38%
17	50.0	3.00	3.10	9.30	0.59		0.39	0.49		4.53	7.26%
18	53.0	3.00	3.00	9.00	0.48		0.32	0.40		3.57	5.72%
19	56.0	3.00	2.50	7.50	0.45		0.26	0.35		2.66	4.26%
20	59.0	3.00	2.00	6.00		0.36		0.36		2.14	3.43%
21	62.0	3.00	1.00	3.00		0.29		0.29		0.88	1.41%
22	65.0	3.40	0.50	1.70		0.18		0.18		0.31	0.49%
23	68.8	1.90	0.00	0.00		0.00		0.00		0.00	0.00%
24											
25											
26											
27											
28											
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45											
	Total	66.80		123.95						62.39	100.00%

Data Collection Crew	Jamie, Steve, Carrick	**Office Data Work**	
Measurement made by:	Steve Stone	**Data Inputed by / Date:**	Carrick Boffy
Notetaker/Recorder:	Carrick Boffy	**Data Input Checked by / Date:**	Ryan Farlow
Other:			

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (ft²) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: DISCHARGE (cfs) = sum of the discharge column

STREAM DISCHARGE SPREADSHEET

Site Number: QR14 **Subsegment:** 080101 **Waterbody:** Bayou Chauvin

Site Description: 100 ft. upstream of levee culverts

Type of Meter: ☐ Price A:A 1:1 ☑ Pygmy ☐ Price A:A 5:1 **Standard:** ☐ Standard 1 ☑ Standard 2

Type of Equipment: ☑ Wading ☐ Bridge Board ☐ Boat Board

Initial Bank: ☑ RDB ☐ LDB

Tapedown: 9.31 feet

Guage Height: N/A

Date: 7/18/2001

Start Time: 13:00 **End Time:** 13:40

WIDTH [1] (ft):	9.30
AREA [2] (ft^2):	3.06
AVG. DEPTH [3] (ft):	0.33
DISCHARGE [4] (cfs):	2.02
AVG. VELOCITY [5] (fps):	0.66

Subsection	Distance from initial point (ft)	Width of element [6] (ft)	Depth of element (ft)	Area of element [7] (ft^2)	Velocity of element (fps)				Adjusted Angle [9]	Discharge through element [10] (cfs)	Element discharge at % of total discharge [11]
					.2D	.6D	.8D	Average [8]			
1	1.0	0.15	0.00	0.00		0.00		0.00		0.00	0.00%
2	1.3	0.30	0.20	0.06		0.00		0.00		0.00	0.00%
3	1.6	0.30	0.20	0.06		0.30		0.30		0.02	0.89%
4	1.9	0.30	0.20	0.06		0.63		0.63		0.04	1.87%
5	2.2	0.30	0.30	0.09		0.73		0.73		0.07	3.25%
6	2.5	0.30	0.30	0.09		0.26		0.26		0.02	1.15%
7	2.8	0.30	0.50	0.15		0.37		0.37		0.05	2.72%
8	3.1	0.30	0.40	0.12		0.89		0.89		0.11	5.29%
9	3.4	0.30	0.50	0.15		0.52		0.52		0.08	3.83%
10	3.7	0.30	0.50	0.15		0.82		0.82		0.12	6.06%
11	4.0	0.30	0.50	0.15		0.68		0.68		0.10	5.04%
12	4.3	0.30	0.50	0.15		1.08		1.08		0.16	8.04%
13	4.6	0.20	0.50	0.10		1.22		1.22		0.12	6.06%
14	4.7	0.15	0.50	0.08		1.30		1.30		0.10	4.82%
15	4.9	0.25	0.50	0.13		1.24		1.24		0.15	7.64%
16	5.2	0.30	0.40	0.12		1.08		1.08		0.13	6.43%
17	5.5	0.30	0.30	0.09		0.68		0.68		0.06	3.02%
18	5.8	0.30	0.40	0.12		0.95		0.95		0.11	5.63%
19	6.1	0.30	0.40	0.12		0.74		0.74		0.09	4.42%
20	6.4	0.30	0.40	0.12		0.72		0.72		0.09	4.27%
21	6.7	0.30	0.40	0.12		0.72		0.72		0.09	4.30%
22	7.0	0.30	0.40	0.12		0.58		0.58		0.07	3.43%
23	7.3	0.30	0.40	0.12		0.54		0.54		0.07	3.22%
24	7.6	0.30	0.30	0.09		0.57		0.57		0.05	2.52%
25	7.9	0.30	0.40	0.12		0.34		0.34		0.04	2.00%
26	8.2	0.30	0.20	0.06		0.37		0.37		0.02	1.09%
27	8.5	0.30	0.20	0.06		0.19		0.19		0.01	0.55%
28	8.8	0.30	0.20	0.06		0.38		0.38		0.02	1.13%
29	9.1	0.30	0.20	0.06		0.30		0.30		0.02	0.88%
30	9.4	0.30	0.20	0.06		0.15		0.15		0.01	0.45%
31	9.7	0.30	0.20	0.06		0.00		0.00		0.00	0.00%
32	10.0	0.30	0.10	0.03		0.00		0.00		0.00	0.00%
33	10.3	0.15	0.00	0.00		0.00		0.00		0.00	0.00%
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45											
	Total	9.30		3.06						2.02	100.00%

Data Collection Crew			Office Data Work	
Measurement made by:	B. Blalock		Data Inputed by / Date:	J. Severson/ 7-19-01
Notetaker/Recorder:	J. Severson		Data Input Checked by / Date:	B. Blalock/ 7-19-01
Other:				

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (ft^2) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: DISCHARGE (cfs) = sum of the discharge column

STREAM DISCHARGE SPREADSHEET

Site Number: OR 15 **Subsegment:** 080101 **Waterbody:** Cheniere Creek
Site Description: ~200 yds. Downstream from weir
Type of Meter: ☑ Price A:A 1:1 ☐ Pygmy ☐ Price A:A 5:1 **Standard:** ☐ Standard 1 ☑ Standard 2
Type of Equipment: ☑ Wading ☐ Bridge Board ☐ Boat Board
Initial Bank: ☑ RDB ☐ LDB
Tapedown: 17.14'
Guage Height: n/a
Date: 7/18/2001
Start Time: 8:55a **End Time:** 10:35a

WIDTH[1] (ft):	34.00
AREA[2] (ft²):	101.95
AVG. DEPTH[3] (ft):	3.00
DISCHARGE[4] (cfs):	16.79
AVG. VELOCITY[5] (fps):	0.16

Subsection	Distance from initial point (ft)	Width of element[6] (ft)	Depth of element (ft)	Area of element[7] (ft²)	Velocity of element (fps)				Adjusted Angle[9]	Discharge through element[10] (cfs)	Element discharge at % of total discharge[11]
					.2D	.6D	.8D	Average[8]			
1	0.0	0.50	0.00	0.00		0.00		0.00			
2	1.0	1.00	0.85	0.85		0.16		0.16		0.14	0.81%
3	2.0	1.00	1.10	1.10		0.12		0.12		0.13	0.75%
4	3.0	1.00	1.50	1.50		0.21		0.21		0.31	1.85%
5	4.0	1.00	2.40	2.40		0.17		0.17		0.41	2.43%
6	5.0	1.00	2.70	2.70	0.39		0.26	0.33		0.89	5.27%
7	6.0	1.00	2.70	2.70	0.39		0.31	0.35		0.95	5.66%
8	7.0	1.00	2.70	2.70	0.34		0.31	0.33		0.88	5.26%
9	8.0	1.00	2.70	2.70	0.33		0.16	0.24		0.66	3.93%
10	9.0	1.00	3.10	3.10	0.30		0.16	0.23		0.71	4.23%
11	10.0	1.00	3.10	3.10	0.30		0.15	0.22		0.69	4.12%
12	11.0	1.00	3.10	3.10	0.29		0.14	0.21		0.66	3.96%
13	12.0	1.00	3.20	3.20	0.32		0.19	0.26		0.82	4.87%
14	13.0	1.00	3.20	3.20	0.31		0.13	0.22		0.70	4.17%
15	14.0	1.00	3.50	3.50	0.28		0.16	0.22		0.76	4.51%
16	15.0	1.00	3.50	3.50	0.27		0.17	0.22		0.76	4.54%
17	16.0	1.00	3.50	3.50	0.25		0.13	0.19		0.67	4.00%
18	17.0	1.00	3.50	3.50	0.23		0.04	0.14		0.47	2.81%
19	18.0	1.00	3.70	3.70	0.14		0.06	0.10		0.38	2.24%
20	19.0	1.00	3.50	3.50	0.17		0.06	0.12		0.41	2.42%
21	20.0	1.00	3.70	3.70	0.14		0.10	0.12		0.46	2.71%
22	21.0	1.00	3.90	3.90	0.15		0.12	0.13		0.52	3.11%
23	22.0	1.00	3.90	3.90	0.16		0.14	0.15		0.57	3.40%
24	23.0	1.00	3.70	3.70	0.18		0.18	0.18		0.67	4.00%
25	24.0	1.00	3.90	3.90	0.16		0.06	0.11		0.42	2.51%
26	25.0	1.00	3.60	3.60	0.20		0.11	0.15		0.55	3.30%
27	26.0	1.00	3.00	3.00	0.20		0.15	0.18		0.53	3.15%
28	27.0	1.00	3.80	3.80	0.23		0.22	0.22		0.85	5.06%
29	28.0	1.00	3.50	3.50	0.12		0.00	0.06		0.21	1.27%
30	29.0	1.00	3.80	3.80	0.20		0.12	0.16		0.61	3.65%
31	30.0	1.00	3.70	3.70	0.00		0.00	0.00		0.00	0.00%
32	31.0	1.00	3.50	3.50	0.00		0.00	0.00		0.00	0.00%
33	32.0	1.00	2.90	2.90	0.00		0.00	0.00		0.00	0.00%
34	33.0	1.00	1.50	1.50		0.00		0.00		0.00	0.00%
35	34.0	0.50	0.00	0.00		0.00		0.00		0.00	0.00%
36											
37											
38											
39											
40											
41											
42											
43											
44											
45											
	Total	34.00		101.95						16.79	100.00%

Data Collection Crew		Office Data Work	
Measurement made by:	B. Blalock	Data Inputed by / Date:	B. Blalock 07/19/01
Notetaker/Recorder:	J. Severson	Data Input Checked by / Date:	
Other:			

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (ft²) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: DISCHARGE (cfs) = sum of the discharge column

ACCOUSTIC DOPPLER FLOWMETER DATA

Site:	OR1	Site:	OR5	Site:	OR10
Date:	7/18/2001	Date:	7/18/2001	Date:	7/18/2001
Time:	8:30	Time:	11:00	Time:	13:40
Discharge (cfs):	3720.77	Discharge (cfs):	4461.33	Discharge (cfs):	4433.35
Area (ft^2)	6499.67	Area (ft^2)	10367.27	Area (ft^2)	10212.09
Width (ft)	406.87	Width (ft)	489.51	Width (ft)	427.71
Velocity (fs):	0.572	Velocity (fs):	0.430	Velocity (fs):	0.434
Avg. depth	15.975	Avg. depth	21.179	Avg. depth	23.876

FACILITY FLOW AND TEMPERATURE DATA

FACILITY FLOWS AND TEMPERATURES

Angus 001 Outfall to Ouachita River:

Date	Flow(MGD)
7/13/01	0.53
7/14/01	0.41
7/15/01	0.33
7/16/01	0.39
7/17/01	0.45
7/18/01	0.47
7/19/01	0.44

Riverwood 401 Outfall		City of West Monroe Outfall 001A & 001B (Total)	
Date	Flow(MGD)		Flow(MGD)
7/13/01	11.5		3.916
7/14/01	11.5		3.370
7/15/01	11.5		3.918
7/16/01	11.6		3.929
7/17/01	11.8		3.891
7/18/01	11.7		2.278
7/19/01	12.8		3.092

City of Monroe STP

Date	Flow(MGD)
7/13/01	7.24
7/14/01	7.13
7/15/01	6.94
7/16/01	6.65
7/17/01	6.64
7/18/01	7.19
7/19/01	7.60

Entergy Sterlington Plant 002 Outfall to Ouachita River

Date	Flow(MGD)	Avg. Temp.(deg F)	Max. Temp.(deg F)
7/13/01	158.4	103.80	108.47
7/14/01	158.4	98.32	104.89
7/15/01	158.4	98.90	106.80
7/16/01	158.4	98.47	107.35
7/17/01	158.4	101.20	108.66
7/18/01	158.4	103.50	108.88
7/19/01	158.4	103.98	111.48

Outfall 005 discharge is to Lonewa Bayou which eventually gets to the Ouachita River some 5-10 miles from the facility.

Entergy Monroe Plant 001 Outfall to Ouachita River

Date	Flow(MGD)	Avg. Temp.(deg F)	Max. Temp.(deg F)
7/13/01	24.0	100.5	106.6
7/14/01	24.0	99.8	100.7
7/15/01	24.0	99.0	100.1
7/16/01	24.0	98.9	99.9
7/17/01	24.0	99.2	100.1
7/18/01	Off	Off	Off
7/19/01	Off	Off	Off

Outfall 001 discharge is to the Ouachita River from Unit 7. Unit 7 is used more or less as a backup, so does not always have a discharge.

Entergy Monroe Plant 002 Outfall to Ouachita River

Date	Flow(MGD)	Avg. Temp.(deg F)	Max. Temp.(deg F)
7/13/01	Off	Off	Off
7/14/01	Off	Off	Off
7/15/01	92.0	100.4	103.3
7/16/01	92.0	103.2	104.8
7/17/01	92.0	101.6	103.8
7/18/01	92.0	99.6	100.1
7/19/01	92.0	100.2	105.5

Koch Nitrogen 001 Outfall to the Ouachita River

Date	Flow(MGD)
7/13/01	1.8912
7/14/01	1.7496
7/15/01	1.3986
7/16/01	1.4108
7/17/01	0.9582
7/18/01	1.0183
7/19/01	0.8728

FIELD NOTES

OUACHITA RIVER SURVEY LOG BOOK NOTES

Greenwood/Blalock/Severson

07/17/2001

Site OR16A: Cypress Creek @ LA Hwy 557 Bridge
-no flow
-not good survey site

Site OR16B: Cypress Creek @ LA Hwy 846 Bridge
-no flow
-not good survey site

Site OR15: Cheniere Creek below weir
-survey site will be ~175 yards downstream of weir (~45 feet wide/avg. depth 3 feet)
-GPS taken at weir (due to canopy cover)

Site OR14: Bayou Chauvin @ levee north of Monroe
-width ~15 feet
-depth ~8 inches
-tapedown taken @ 1435hrs=9.23 feet
-flow but probably under 10cfs
-possible site ~50 yards upstream of levee structure
-GPS taken @ structure

07/18/2001

Site OR15: Cheniere Creek
0753hrs
Field Parameters w/ Water Quality
pH: 6.57
DO: 4.46 mg/L
DO%: 56.2
Temp: 27.81ºC
SpCond: 54.9uS/cm
Battery: 7.5v

-tapedown @ 1040hrs=17.14 feet
-secchi disc: 2.5 feet

Site OR14: Bayou Chauvin
1300hrs
Field Parameters w/ Water Quality
pH: 7.45
DO: 4.81 mg/L
DO%: 63.7

Temp: 30.07ºC
SpCond: 255.3 uS/cm
Battery 7.4v

-tapedown @ 1325hrs=9.31 feet
-discharge taken 100 feet upstream of structure
-secchi disc: 0.5 feet

Masden/Kinard

07/17/01

-contiuous monitor #37756 deployed at 1400hrs

Phillippe/Boffy/Stone

07/17/01

Site OR13: Bayou d'Arbonne @ Rocky Branch Rd.
-no flow; checked with drogue
-no GPS; high PDOP; A unit
-no site

Site OR12A: Bayou de l'Outre @ Chapman Rd.
-negative flow(going upstream); checked with drogue
-GPSed

Site OR12B: Bayou de l'Outre @ Deloutre Rd.
-negative flow(going upstream); checked with drogue
-no site; use 12A if needed

Site OR11: Bayou Bartholomew @ Ouachita City
-no flow; checked w/drogue; very stagnant
-no site(flow); GPSed; to be WQ site

Site OR11(B): Bayou Bartholomew @ LA Hwy 592
-flowing

07/18/01

Site OR11: Bayou Bartholomew @ Ouachita City
-WQ Parameters Hydrolab Minisonde 4a-37762
Temp: 28.75ºC
DO%: 75.9
DO: 5.91

SpCond: 162.2uS/cm
pH: 7.49
Battery: 7.3v

WQ taken @:
0830-blank
0845-sample
0900-dupelicate
0915-chlorophyll a

Site 11(B): Bayou Bartholomew @ LA Hwy 592
-flow measurement taken 50 ft. upstream of LA Hwy 592 bridge
-tapedown: 36.18 ft.

Schwartzenburg/Gianelloni/Lanthier

07/17/01

Site OR3: Ouachita River near Lamkin
-set out continuous monitor s/n 37752 @ 1130hrs.

Site OR2: Ouachita River east of Rocky Branch
-set out continuous monitor s/n 37759 @ 1236hrs.

In Situ Run: Entergy-Sterlington Generating Plant (LA0007579)
@ bridge:
Temp: 31.34ºC
pH: 6.92
DO: 5.84 mg/L
DO%: 79.4
SpCond: 101 uS/cm
Battery: 4.2v

@ outfall:
Temp: 31.46ºC
pH: 6.94
DO: 6.11 mg/L
DO%: 81.1
SpCond: 100 uS/cm
Battery: 4.0v

@ ¼ mile above outfall:
Temp: 31.34ºC
pH: 6.89
DO: 6.03 mg/L

DO%: 78.6
SpCond: 100 uS/cm
Battery: 3.6v

07/18/01

Site OR2: Ouachita River east of Rocky Branch
-cross-section: 404 ft. wide
-secchi disc: 2 ft.
-GPSed: A unit
WQ & In Situ taken @ 0900hrs
@ 1meter:
Temp: 31.61ºC
pH: 6.84
DO: 5.35 mg/L
DO%: 74.0
SpCond: 102 uS/cm
Battery: 3.8v

@ 3meters:
Temp: 31.61ºC
pH: 6.83
DO: 5.46 mg/L
DO%: 74.2
SpCond: 102 uS/cm
Battery: 4.0v

@ 6meters:
Temp: 31.61ºC
pH: 6.80
DO: 5.46 mg/L
DO%: 74.1
SpCond: 101 uS/cm
Battery: 4.0v

In Situ Run: Entergy-Sterlington Generating Plant (LA0007579)
-in situ readings @ 1meter
-plant was discharging
-start time @ 0947hrs

Site 1.1: ¼ mile above outfall
Temp: 31.14ºC
pH: 6.89
DO: 5.84 mg/L
DO%: 78.6
SpCond: 96 uS/cm
Battery: 3.9v

Site 1.2: @ outfall
Temp: 31.48ºC
pH: 6.87
DO: 5.76 mg/L
DO%: 78.3
SpCond: 96 uS/cm
Battery: 4.1v

Site 1.3: ¼ mile downstream of outfall
Temp: 31.76ºC
pH: 6.87
DO: 6.0 mg/L
DO%: 84.2
SpCond: 96 uS/cm
Battery: 3.8v

Site 1.4: ½ mile downstream of outfall
Temp: 31.40ºC
pH: 6.87
DO: 6.0 mg/L
DO%: 81.1
SpCond: 96 uS/cm
Battery: 3.8v

Site 1.5: ¾ mile downstream of outfall
Temp: 31.44ºC
pH: 6.90
DO: 5.99 mg/L
DO%: 80.9
SpCond: 96 uS/cm
Battery: 4.0v

Site OR3: Ouachita River near Lamkin
-cross-section taken
-secchi disc: 2ft.
-GPSed

WQ & In Situ taken @ 1120hrs
@ 1meter:
Temp: 31.57ºC
pH: 6.75
DO: 4.99 mg/L
DO%: 68.0
SpCond: 100 uS/cm
Battery: 4.3v

@ 3meters:

Temp: 31.55ºC
pH: 6.68
DO: 4.97 mg/L
DO%: 67.4
SpCond: 100 uS/cm
Battery: 4.1v

@ 6meters:
Temp: 31.53ºC
pH: 6.67
DO: 4.96 mg/L
DO%: 67.9
SpCond: 100 uS/cm
Battery: 4.1v

@ 9meters:
Temp: 31.52ºC
pH: 6.65
DO: 4.92 mg/L
DO%: 65.7
SpCond: 100 uS/cm
Battery: 4.1v

07/19/01

Site OR4: Ouachita River near De Loach
-picked up monitor @ 0720hrs

Site OR3: Ouachita River near Lamkin
-picked up monitor @ 0805hrs

07/17/01

Baldwin, Champagne, Cooley

Site OR9
Deployed continuous monitor (Hydrolab 37755) at 11:10hrs.
GPS taken

Site OR8
Did cross section with fathometer
GPS taken

Site OR7
Did cross section with fathometer
GPS taken

Site OR5
Deployed continuous monitor (Hydrolab 37758) at 16:20hrs.
GPS taken

07/18/01

Baldwin, Champagne, Cooley

Site OR1
Water quality taken at 0830hrs at 1meter
Blank and Duplicate taken at this site
Insitu taken with Hydrolab Mini Sonde 4a sn 38735
Secchi disc reading – 2.5ft.

1 meter		6ft	9ft	12ft	15ft
pH	7.07	7.01	6.98	6.96	6.95
DO	5.76	5.41	5.65	5.01	5.32
DO%	76.5	73.1	76.3	68.8	72.0
Temp	31.01	31.0	30.99	30.99	31.0
Cond.	94.0	92.0	89.6	89.4	91.4
Sal.	.03	.03	.03	.03	.03
Batt.	7.2	7.2	7.2	7.1	7.1

Site OR5
Water quality taken at 1meter at 1100hrs.
Insitu taken with Hydrolab Mini Sonde 4a sn 38735
Secchi disc reading – 2ft.

1meter		6ft	9ft	12ft	15ft(bottom)
pH	6.88	6.84	6.82	6.83	6.83
DO	4.40	4.04	4.09	3.6	3.72
DO%	58.4	54.6	54.7	49.5	50.6
Temp	31.51	31.39	31.36	31.36	31.36

Cond	130.7	128.6	128.6	128.8	129.0
Sal.	.05	.05	.05	.05	.05
Batt.	7.2	7.1	7.1	7.1	7.1

Site OR9
Water quality taken at 1 meter at 1340hrs.
Insitu taken with Hydrolab Mini Sonde 4a sn 38735
Secchi disc reading – 2.5ft.

1meter		6ft	9ft(bottom)
pH	6.77	6.68	6.66
DO	3.68	3.37	3.26
DO%	50.2	45.9	44.0
Temp	31.43	31.34	31.32
Cond	126.1	125.5	125.4
Sal.	.05	.05	.05
Batt.	7.1	7.1	7.1

Brignac/Blanchard/Farlow

07/17/01

Site OR4: Ouachita River near De Loach
-continuous monitor deployed @ 1310

Site OR6: Ouachita River near Bosco
-continuous monitor deployed @ 1500; #37754

07/18/01

Site OR21: Riverwood International West Outfall 001
-used quanta #qt00131
-GPSed
-WQ taken @ 0745hrs
Temp: 28.92ºC
pH: 8.41

DO: 1.75 mg/L
DO%: 24.6
SpCond: 259 uS/cm
Battery: 4.3v
Secchi Disc: .5 ft.

Site OR4: Ouachita River near De Loach
-GPSed
-cross-section taken with fathometer: 592 ft. wide
-WQ taken @ 0810hrs
@ 1meter:
Temp: 31.42ºC
pH: 6.94
DO: 4.68 mg/L
DO%: 63.6
SpCond: 114 uS/cm
Battery: 4.3v
Secchi Disc: 2 ft.

@ 2meters:
Temp: 31.45ºC
pH: 6.68
DO: 5.4 mg/L
DO%: 71.0
SpCond: 115 uS/cm
Battery: 4.1v

@ 3meters:
Temp: 31.44ºC
pH: 6.63
DO: 5.04 mg/L
DO%: 67.8
SpCond: 115 uS/cm
Battery: 4.1v

@ 4meters:
Temp: 31.44ºC
pH: 6.54
DO: 4.86 mg/L
DO%: 66.4
SpCond: 115 uS/cm
Battery: 4.1v

@ 5meters:
Temp: 31.44ºC
pH: 6.62
DO: 4.85 mg/L

DO%: 65.5
SpCond: 115 uS/cm
Battery: 3.9v

@ 6meters (bottom):
Temp: 31.44ºC
pH: 6.58
DO: 4.01 mg/L
DO%: 54.8
SpCond: 115 uS/cm
Battery: 4.1v
In Situ Run: Entergy-Monroe Generating Plant (LA0007765)

Site 2.1:
Temp: 31.35ºC
pH: 6.73
DO: 5.31 mg/L
DO%: 70.7
SpCond: 103 uS/cm
Battery: 4.0v

Site 2.2:
Temp: 31.40ºC
pH: 6.77
DO: 5.10 mg/L
DO%: 67.5
SpCond: 104 uS/cm
Battery: 4.3v

Site 2.3:
Temp: 31.70ºC
pH: 6.76
DO: 5.01 mg/L
DO%: 67.8
SpCond: 104 uS/cm
Battery: 4.2v

Site 2.4:
Temp: 32.04ºC
pH: 6.75
DO: 5.23 mg/L
DO%: 71.2
SpCond: 106 uS/cm
Battery: 4.3v

Site 2.5:
Temp: 31.47ºC
pH: 6.75

DO: 4.9 mg/L
DO%: 66.6
SpCond: 107 uS/cm
Battery: 4.3v

Site OR6: Ouachita River near Bosco
-fathometer cross-section taken
-GPSed
-Secchi Disc: 2.2 ft.

WQ & In Situ taken @ 1420hrs
@ 1meter:
Temp: 31.91ºC
pH: 6.89
DO: 5.02 mg/L
DO%: 65.9
SpCond: 155 uS/cm
Battery: 4.3v

@ 2meters:
Temp: 31.60ºC
pH: 6.72
DO: 4.07 mg/L
DO%: 55.7
SpCond: 155 uS/cm
Battery: 4.3v

@ 3meters:
Temp: 31.55ºC
pH: 6.62
DO: 3.98 mg/L
DO%: 53.7
SpCond: 155 uS/cm
Battery: 4.3v

@ 4meters:
Temp: 31.47ºC
pH: 6.55
DO: 3.87 mg/L
DO%: 50.6
SpCond: 154 uS/cm
Battery: 4.3v

@ 5meters:
Temp: 31.44ºC
pH: 6.51
DO: 3.84 mg/L

DO%: 51.9
SpCond: 154 uS/cm
Battery: 4.3v

@ 6meters:
Temp: 31.45ºC
pH: 6.46
DO: 3.80 mg/L
DO%: 51.0
SpCond: 154 uS/cm
Battery: 4.3v

@ 7meters:
Temp: 31.46ºC
pH: 6.44
DO: 3.83 mg/L
DO%: 50.6
SpCond: 154 uS/cm
Battery: 4.3v

@ 8meters:
Temp: 31.44ºC
pH: 6.44
DO: 3.69 mg/L
DO%: 50.1
SpCond: 154 uS/cm
Battery: 4.3v

@ 9meters:
Temp: 31.42ºC
pH: 6.64
DO: 3.64 mg/L
DO%: 50.0
SpCond: 154 uS/cm
Battery: 4.3v

@ 10meters:
Temp: 31.42ºC
pH: 6.62
DO: 3.62 mg/L
DO%: 48.9
SpCond: 153 uS/cm
Battery: 4.3v

@ 11meters:
Temp: 31.41ºC
pH: 6.36
DO: 3.64 mg/L

DO%: 50.0
SpCond: 153 uS/cm
Battery: 4.3v

07/19/01

Site OR5: Ouachita River west of Cobb Spur
-picked up continuous monitor @ 0930hrs

Site OR6: Ouachita River near Bosco
-picked up continuous monitor @ 0950hrs

Site OR9: Ouachita River west of Riverton
-picked up continuous monitor @ 1230hrs

GPS DATA

X	Y	LAT	LONG	STREAM	LOCATION	SITES
588688	3627456	32.783172	-92.052957	OUACHITA RIVER		Site OR01
586749	3619434	32.710968	-92.074410	OUACHITA RIVER	0.5 miles upstream Sterlington Entergy plant	Site OR01.1
586023	3618622	32.703697	-92.082227	OUACHITA RIVER	at Sterlington Entergy plant	Site OR01.2
585634	3617830	32.696583	-92.086448	OUACHITA RIVER	0.5 miles downstream of Sterlington Entergy pl	Site OR01.3
585322	3616866	32.687914	-92.089867	OUACHITA RIVER	1.0 mile downstream of Sterlington Entergy pla	Site OR01.4
584456	3616398	32.683757	-92.099149	OUACHITA RIVER	1.5 miles downstream of Sterlington Entergy pl	Site OR01.5
580496	3614914	32.670669	-92.141510	OUACHITA RIVER		Site OR02
581738	3599731	32.533628	-92.129592	OUACHITA RIVER	550 yards upstream of Monroe Entergy plant	Site OR02.1
581621	3599229	32.529108	-92.130884	OUACHITA RIVER	at Monroe Entergy plant	Site OR02.2
581302	3599029	32.527323	-92.134300	OUACHITA RIVER	550 yards downstream of Monroe Entergy plant	Site OR02.3
581243	3598453	0.000000	0.000000	OUACHITA RIVER	550 yards downstream of 2.3	Site OR02.4
581358	3597907	32.517197	-92.133793	OUACHITA RIVER	550 yards downstream of 2.4	Site OR02.5
584216	3605910	32.589179	-92.102651	OUACHITA RIVER		Site OR03
582920	3592021	32.463989	-92.117690	OUACHITA RIVER		Site OR04
581750	3584257	32.394039	-92.130804	OUACHITA RIVER		Site OR05
585277	3572475	32.287502	-92.094375	OUACHITA RIVER		Site OR06
581728	3563726	32.208843	-92.132802	OUACHITA RIVER		Site OR07
583804	3561056	32.184604	-92.111019	OUACHITA RIVER		Site OR08
583819	3559658	0.000000	0.000000	OUACHITA RIVER	Approximate location - no GPS taken	Site OR09
584043	3557128	0.000000	0.000000	OUACHITA RIVER	Approximate location - no GPS taken	Site OR10
598041	3626665	32.775244	-91.953179	B. BARTHOLOMEW		Site OR11
569301	3627055	0.000000	0.000000	BAYOU de LOUTRE		Site OR12
571635	3615764	0.000000	0.000000	BAYOU d'ARBONNE		Site OR13
583486	3603621	32.568584	-92.110635	BAYOU CHAUVIN		Site OR14
576045	3590713	32.452687	-92.190935	CHENIERE CREEK		Site OR15
571128	3572602	0.000000	0.000000	CYPRESS CREEK		Site OR16
582796	3590790	32.452893	-92.119109	JUDY SLAUGH		Site OR21

LABORATORY DATA AND A PARTIAL LISTING OF FIELD IN-SITU DATA

Site_Number	Site_Description	Site_Location	Collection_Date	Collection_Time	Gage Height (ft)	Sample Depth (M)	Meter Type
OR1	Ouachita River	North of Ouachita City/upstream of Bayou	7/18/2001	8:30		1.0	38735
OR2	Ouachita River	East of Rocky Branch/downstream of confl	7/18/2001	9:00		1.0	Quanta 00132
OR3	Ouachita River	Near Lamkin/downstream of Moon & White L	7/18/2001	11:20		1.0	Quanta 00132
OR4	Ouachita River	Near De Loach/upstream of Tributary #12	7/18/2001	8:10		1.0	Quanta QT00131
OR5	Ouachita River	West of Cobb Spur/upstream of Bayou Lapi	7/18/2001	11:00		1.0	38735
OR6	Ouachita River	Near Bosco/upstream of Lake Lafitta	7/18/2001	12:20		1.0	Quanta QT00131
OR9	Ouachita River	West of Riverton/upstream of Columbia Lo	7/18/2001	13:40		1.0	38735
OR11	Ouachita River	Bayou Bartholomew nr Ouachita City	7/18/2001	9:00		1.0	Hydrolab 37762
OR14	Ouachita River	Bayou Chauvin N of Monroe	7/18/2001	13:00		.25	12558
OR15	Ouachita River	Cheniere Creek SW of West Monroe	7/18/2001	7:53		1.0	12558
OR17	Ouachita River	Monroe POTW	7/18/2001	13:30			
OR18	Ouachita River	Angus Chemical	7/18/2001	10:30			
OR18	Ouachita River	Angus Chemical	7/18/2001	10:30			
OR19	Ouachita River	Koch Nitrogen	7/18/2001	11:00			
OR21	Ouachita River	Riverwood International West	7/18/2001	7:45		1	Quanta QT00131

Site_Number	Site_Description	Site_Location	Battery	pH (SU)	T (degrees C)	DO (mg/L)	Cond (uhoms/cm)
OR1	Ouachita River	North of Ouachita City/upstream of Bayou	7.2	7.07	31.01	5.76	94
OR2	Ouachita River	East of Rocky Branch/downstream of confl	3.8	6.84	31.61	5.35	102
OR3	Ouachita River	Near Lamkin/downstream of Moon & White L	4.3	6.75	31.57	4.99	100
OR4	Ouachita River	Near De Loach/upstream of Tributary #12	4.3	6.94	31.42	4.68	114.0
OR5	Ouachita River	West of Cobb Spur/upstream of Bayou Lapi	7.2	6.88	31.51	4.40	130.7
OR6	Ouachita River	Near Bosco/upstream of Lake Lafitta	4.3	6.89	31.91	5.02	155.0
OR9	Ouachita River	West of Riverton/upstream of Columbia Lo	7.1	6.77	31.43	3.68	126.1
OR11	Ouachita River	Bayou Bartholomew nr Ouachita City	7.3	7.49	28.75	5.91	162.2
OR14	Ouachita River	Bayou Chauvin N of Monroe	7.4	7.45	30.07	4.81	255.3
OR15	Ouachita River	Cheniere Creek SW of West Monroe	7.5	6.57	27.81	4.46	54.9
OR17	Ouachita River	Monroe POTW					
OR18	Ouachita River	Angus Chemical					
OR18	Ouachita River	Angus Chemical					
OR19	Ouachita River	Koch Nitrogen					
OR21	Ouachita River	Riverwood International West	4.3	8.41	28.92	1.75	258

Site_Number	Site_Description	Site_Location	Secchi Disc	Oil Sheen Present (Y/N)	Salinity (ppt)	% Saturated DO
OR1	Ouachita River	North of Ouachita City/upstream of Bayou	30		.03	76.5
OR2	Ouachita River	East of Rocky Branch/downstream of confl	24			74.0
OR3	Ouachita River	Near Lamkin/downstream of Moon & White L	24			68
OR4	Ouachita River	Near De Loach/upstream of Tributary #12	24			63.6
OR5	Ouachita River	West of Cobb Spur/upstream of Bayou Lapi	24		.05	58.4
OR6	Ouachita River	Near Bosco/upstream of Lake Lafitta	2.2			65.9
OR9	Ouachita River	West of Riverton/upstream of Columbia Lo	30		.05	50.2
OR11	Ouachita River	Bayou Bartholomew nr Ouachita City	12	N		75.9
OR14	Ouachita River	Bayou Chauvin N of Monroe	6			63.7
OR15	Ouachita River	Cheniere Creek SW of West Monroe	30			56.2
OR17	Ouachita River	Monroe POTW				
OR18	Ouachita River	Angus Chemical				
OR18	Ouachita River	Angus Chemical				
OR19	Ouachita River	Koch Nitrogen				
OR21	Ouachita River	Riverwood International West	6			24.6

Monday, August 20, 2001

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
LABORATORY SERVICES DIVISION
WATER LABORATORY

8618 GSRI ROAD
BATON ROUGE, LOUISIANA 70810
(225) 765-2405
ELAINE SORBET, LABORATORY MANAGER

Name of Survey: Ouachita River

Site:	Lab ID:	Analysis	Resul		Date Started:	Date Read:	Analyst:
OR1ABLK	AD16424	Total Suspended Solids	ND	ppm	07/23/2001	07/26/2001	DMR
		Total Dissolved Solids	ND	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	ND	ppm	07/23/2001	07/23/2001	BSF
		Turbidity	0.09	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	ND	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	ND	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	ND	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	ND	ppm		07/26/2001	CLJ
OR1CBLK	AD16426	Hardness	ND	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	ND	ppm	07/26/2001	07/26/2001	ASC
		Total Phosphorus	ND	ppm	08/06/2001	08/06/2001	ASC
		Total Kjehldahl Nitrogen	ND	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA
OR1TOCBL	AD16427	Total Organic Carbon	ND	ppm	07/25/2001	07/26/2001	MSR
OR1OPBLK	AD16428	Orthophosphate	ND	ppm	07/19/2001	07/19/2001	DBH
OR1A	AD16430	Total Suspended Solids	8.5	ppm	07/23/2001	07/26/2001	DMR
		Total Dissolved Solids	78.7	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	23.0	ppm	07/23/2001	07/24/2001	BSF
		Turbidity	13	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	111	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	42	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	9.9	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	11.7	ppm		07/26/2001	CLJ
OR1C	AD16432	Hardness	23.0	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	0.17	ppm	07/26/2001	07/26/2001	ASC
		Total Phosphorus	0.06	ppm	08/06/2001	08/06/2001	ASC
		Total Kjehldahl Nitrogen	0.67	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA
OR1TOC	AD16433	Total Organic Carbon	6.9	ppm	07/25/2001	07/26/2001	MSR
OR1OP	AD16434	Orthophosphate	0.02	ppm	07/19/2001	07/19/2001	DBH
OR1ADUP	AD16436	Total Suspended Solids	8.5	ppm	07/23/2001	07/26/2001	DMR
		Total Dissolved Solids	79.3	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	23.0	ppm	07/23/2001	07/24/2001	BSF
		Turbidity	13	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	110	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	42	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	9.9	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	12.0	ppm		07/26/2001	CLJ

Site:	Lab ID:	Analysis	Resul		Date Started:	Date Read:	Analyst:
OR1CDUP	AD16438	Hardness	23.2	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	0.17	ppm	07/26/2001	07/26/2001	ASC
		Total Phosphorus	0.06	ppm	08/06/2001	08/06/2001	ASC
		Total Kjehldahl Nitrogen	0.68	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA
OR1TOCDU	AD16439	Total Organic Carbon	6.4	ppm	07/25/2001	07/26/2001	MSR
OR2ABLK	AD16441	Total Suspended Solids	ND	ppm	07/23/2001	07/26/2001	DMR
		Total Dissolved Solids	ND	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	ND	ppm	07/23/2001	07/24/2001	BSF
		Turbidity	0.25	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	ND	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	ND	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	ND	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	ND	ppm		07/26/2001	CLJ
OR2CBLK	AD16443	Hardness	ND	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	ND	ppm	07/26/2001	07/26/2001	ASC
		Total Phosphorus	0.06	ppm	08/06/2001	08/06/2001	ASC
		Total Kjehldahl Nitrogen	0.21	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA
OR2TOCBL	AD16444	Total Organic Carbon	ND	ppm	07/25/2001	07/26/2001	MSR
OR2A	AD16446	Total Suspended Solids	7.5	ppm	07/23/2001	07/26/2001	DMR
		Total Dissolved Solids	86.0	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	22.7	ppm	07/23/2001	07/24/2001	BSF
		Turbidity	13	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	112	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	49	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	10.4	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	14.3	ppm		07/26/2001	CLJ
OR2C	AD16448	Hardness	22.8	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	0.17	ppm	07/26/2001	07/26/2001	ASC
		Total Phosphorus	0.11	ppm	08/06/2001	08/06/2001	ASC
		Total Kjehldahl Nitrogen	0.34	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA
OR2TOC	AD16449	Total Organic Carbon	6.1	ppm	07/25/2001	07/26/2001	MSR
OR2ADUP	AD16451	Total Suspended Solids	8.0	ppm	07/23/2001	07/26/2001	DMR
		Total Dissolved Solids	88.0	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	22.8	ppm	07/23/2001	07/24/2001	BSF
		Turbidity	13	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	112	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	50	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	10.4	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	13.2	ppm		07/26/2001	CLJ
OR2CDUP	AD16453	Hardness	23.1	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	0.19	ppm	07/26/2001	07/26/2001	ASC
		Total Phosphorus	0.10	ppm	08/06/2001	08/06/2001	ASC
		Total Kjehldahl Nitrogen	0.44	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA

Site:	Lab ID:	Analysis	Resul		Date Started:	Date Read:	Analyst:
OR2TOCDU	AD16454	Total Organic Carbon	6.7	ppm	07/25/2001	07/26/2001	MSR
OR3A	AD16456	Total Suspended Solids	9.6	ppm	07/26/2001	07/26/2001	DMR
		Total Dissolved Solids	96.0	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	21.6	ppm	07/23/2001	07/24/2001	BSF
		Turbidity	13	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	111	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	55	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	10.9	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	12.6	ppm		07/26/2001	CLJ
OR3C	AD16458	Hardness	21.9	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	0.19	ppm	07/26/2001	07/26/2001	ASC
		Total Phosphorus	0.09	ppm	08/06/2001	08/06/2001	ASC
		Total Kjehldahl Nitrogen	0.52	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA
OR3TOC	AD16459	Total Organic Carbon	8.0	ppm	07/25/2001	07/26/2001	MSR
OR4A	AD16461	Total Suspended Solids	8.5	ppm	07/23/2001	07/26/2001	DMR
		Total Dissolved Solids	102	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	23.8	ppm	07/23/2001	07/24/2001	BSF
		Turbidity	15	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	128	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	55	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	14.0	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	13.5	ppm		07/26/2001	CLJ
OR4C	AD16463	Hardness	24.6	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	0.20	ppm	07/26/2001	07/26/2001	ASC
		Total Phosphorus	0.07	ppm	08/06/2001	08/06/2001	ASC
		Total Kjehldahl Nitrogen	0.61	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA
OR4TOC	AD16464	Total Organic Carbon	6.8	ppm	07/25/2001	07/26/2001	MSR
OR4OP	AD16465	Orthophosphate	0.03	ppm	07/19/2001	07/19/2001	DBH
OR5A	AD16467	Total Suspended Solids	6.5	ppm	07/23/2001	07/26/2001	DMR
		Total Dissolved Solids	103	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	25.8	ppm	07/23/2001	07/24/2001	BSF
		Turbidity	15	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	147	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	55	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	16.5	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	16.7	ppm		07/26/2001	CLJ
OR5C	AD16469	Hardness	26.6	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	0.21	ppm	08/02/2001	08/02/2001	ASC
		Total Phosphorus	0.09	ppm	08/06/2001	08/06/2001	ASC
		Total Kjehldahl Nitrogen	0.73	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA
OR5TOC	AD16470	Total Organic Carbon	6.7	ppm	07/27/2001	07/28/2001	MSR
OR5OP	AD16471	Orthophosphate	0.02	ppm	07/19/2001	07/19/2001	DBH
OR6ABLK	AD16473	Total Suspended Solids	ND	ppm	07/23/2001	07/26/2001	DMR
		Total Dissolved Solids	ND	ppm	07/19/2001	07/19/2001	NVA

Site:	Lab ID:	Analysis	Resul		Date Started:	Date Read:	Analyst:
OR6ABLK	AD16473	Alkalinity	ND	ppm	07/23/2001	07/24/2001	BSF
		Turbidity	0.22	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	ND	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	ND	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	ND	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	ND	ppm		07/26/2001	CLJ
OR6CBLK	AD16475	Hardness	ND	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	ND	ppm	07/26/2001	07/26/2001	ASC
		Total Phosphorus	ND	ppm	08/06/2001	08/06/2001	ASC
		Total Kjehldahl Nitrogen	ND	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA
OR6TOCBL	AD16476	Total Organic Carbon	ND	ppm	07/27/2001	07/28/2001	MSR
OR6OPBLK	AD16477	Orthophosphate	ND	ppm	07/19/2001	07/19/2001	DBH
OR6A	AD16479	Total Suspended Solids	6.4	ppm	07/23/2001	07/26/2001	DMR
		Total Dissolved Solids	116	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	25.2	ppm	07/23/2001	07/24/2001	BSF
		Turbidity	14	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	171	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	55	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	24.8	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	16.9	ppm		07/26/2001	CLJ
OR6C	AD16481	Hardness	28.1	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	0.24	ppm	07/26/2001	07/26/2001	ASC
		Total Phosphorus	0.09	ppm	08/06/2001	08/06/2001	ASC
		Total Kjehldahl Nitrogen	0.54	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA
OR6TOC	AD16482	Total Organic Carbon	8.3	ppm	07/27/2001	07/28/2001	MSR
OR6OP	AD16483	Orthophosphate	0.03	ppm	07/19/2001	07/19/2001	DBH
OR6ADUP	AD16485	Total Suspended Solids	7.6	ppm	07/23/2001	07/26/2001	DMR
		Total Dissolved Solids	113	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	25.1	ppm	07/24/2001	07/24/2001	BSF
		Turbidity	12	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	171	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	55	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	25.0	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	17.3	ppm		07/26/2001	CLJ
OR6CDUP	AD16487	Hardness	28.8	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	0.24	ppm	08/02/2001	08/02/2001	ASC
		Total Phosphorus	0.08	ppm	08/06/2001	08/06/2001	ASC
		Total Kjehldahl Nitrogen	0.59	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA
OR6TOCDU	AD16488	Total Organic Carbon	7.8	ppm	07/27/2001	07/28/2001	MSR
OR9A	AD16490	Total Suspended Solids	5.3	ppm	07/24/2001	07/26/2001	DMR
		Total Dissolved Solids	106	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	21.9	ppm	07/24/2001	07/24/2001	BSF
		Turbidity	14	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	142	umhos/cm	07/24/2001	07/24/2001	NVA

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OR9A	AD16490	True Color	60	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	16.9	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	15.5	ppm		07/26/2001	CLJ
OR9C	AD16492	Hardness	25.4	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	0.47	ppm	08/02/2001	08/02/2001	ASC
		Total Phosphorus	0.08	ppm	08/06/2001	08/06/2001	ASC
		Total Kjehldahl Nitrogen	0.59	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA
OR9TOC	AD16493	Total Organic Carbon	11.1	ppm	07/27/2001	07/28/2001	MSR
OR9OP	AD16494	Orthophosphate	0.03	ppm	07/19/2001	07/19/2001	DBH
OR11ABLK	AD16496	Total Suspended Solids	ND	ppm	07/24/2001	07/26/2001	DMR
		Total Dissolved Solids	ND	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	ND	ppm	07/24/2001	07/24/2001	BSF
		Turbidity	0.18	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	ND	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	ND	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	ND	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	ND	ppm		07/26/2001	CLJ
OR11CBLK	AD16498	Hardness	ND	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	0.02	ppm	08/02/2001	08/02/2001	ASC
		Total Phosphorus	0.06	ppm	08/06/2001	08/06/2001	ASC
		Total Kjehldahl Nitrogen	ND	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA
OR11TOCB	AD16499	Total Organic Carbon	ND	ppm	07/27/2001	07/28/2001	MSR
OR11OPBL	AD16500	Orthophosphate	ND	ppm	07/19/2001	07/19/2001	DBH
OR11A	AD16502	Total Suspended Solids	21.0	ppm	07/24/2001	07/26/2001	DMR
		Total Dissolved Solids	115	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	57.3	ppm	07/24/2001	07/24/2001	BSF
		Turbidity	30	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	174	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	38	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	13.7	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	7.9	ppm		07/26/2001	CLJ
OR11C	AD16504	Hardness	58.6	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	0.09	ppm	07/26/2001	07/26/2001	ASC
		Total Phosphorus	0.27	ppm	08/07/2001	08/07/2001	ASC
		Total Kjehldahl Nitrogen	0.60	ppm		08/07/2001	ASC
		Ammonia-Nitrogen	ND	ppm	08/06/2001	08/06/2001	NVA
OR11TOC	AD16505	Total Organic Carbon	7.5	ppm	07/27/2001	07/28/2001	MSR
OR11OP	AD16506	Orthophosphate	0.03	ppm	07/19/2001	07/19/2001	DBH
OR11ADUP	AD16508	Total Suspended Solids	25.0	ppm	07/24/2001	07/26/2001	DMR
		Total Dissolved Solids	115	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	56.8	ppm	07/24/2001	07/24/2001	BSF
		Turbidity	30	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	174	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	39	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	13.8	ppm	07/26/2001	07/26/2001	CLJ

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OR11ADUP	AD16508	Sulfate	7.4	ppm	07/26/2001	07/26/2001	CLJ
OR11CDUP	AD16510	Hardness	58.5	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	0.09	ppm	08/02/2001	08/02/2001	ASC
		Total Phosphorus	0.16	ppm	08/06/2001	08/06/2001	ASC
		Total Kjehldahl Nitrogen	0.70	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA
OR11TOCD	AD16511	Total Organic Carbon	7.3	ppm	07/27/2001	07/28/2001	MSR
OR14A	AD16513	Total Suspended Solids	56.0	ppm	07/24/2001	07/26/2001	DMR
		Total Dissolved Solids	185	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	79.1	ppm	07/24/2001	07/24/2001	BSF
		Turbidity	50	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	274	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	60	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	28.8	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	11.7	ppm		07/26/2001	CLJ
OR14C	AD16515	Hardness	53.2	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	0.22	ppm	08/02/2001	08/02/2001	ASC
		Total Phosphorus	0.94	ppm	08/06/2001	08/06/2001	ASC
		Total Kjehldahl Nitrogen	2.81	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	1.12	ppm		08/06/2001	NVA
OR14TOC	AD16516	Total Organic Carbon	17.7	ppm	07/27/2001	07/28/2001	MSR
OR14OP	AD16517	Orthophosphate	0.57	ppm	07/19/2001	07/19/2001	DBH
OR15ABLK	AD16524	Total Suspended Solids	ND	ppm	07/24/2001	07/26/2001	DMR
		Total Dissolved Solids	ND	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	ND	ppm	07/24/2001	07/24/2001	BSF
		Turbidity	0.23	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	ND	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	ND	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	8.8	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	ND	ppm		07/26/2001	CLJ
OR15CBLK	AD16526	Hardness	ND	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	0.02	ppm	08/02/2001	08/02/2001	ASC
		Total Phosphorus	ND	ppm	08/06/2001	08/06/2001	ASC
		Total Kjehldahl Nitrogen	ND	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA
OR15TOCB	AD16527	Total Organic Carbon	ND	ppm	07/27/2001	07/28/2001	MSR
OR15OPBL	AD16528	Orthophosphate	ND	ppm	07/19/2001	07/19/2001	DBH
OR15A	AD16530	Total Suspended Solids	6.5	ppm	07/24/2001	07/26/2001	DMR
		Total Dissolved Solids	60.7	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	16.7	ppm	07/24/2001	07/24/2001	BSF
		Turbidity	6.3	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	61.6	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	65	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	4.7	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	ND	ppm		07/26/2001	CLJ
OR15C	AD16532	Hardness	16.9	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	ND	ppm	07/26/2001	07/26/2001	ASC

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OR15C	AD16532	Total Phosphorus	0.06	ppm	08/06/2001	08/06/2001	ASC
		Total Kjehldahl Nitrogen	0.75	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA
OR15TOC	AD16533	Total Organic Carbon	13.8	ppm	07/27/2001	07/28/2001	MSR
OR15OP	AD16534	Orthophosphate	ND	ppm	07/19/2001	07/19/2001	DBH
OR15ADUP	AD16536	Total Suspended Solids	5.0	ppm	07/24/2001	07/26/2001	DMR
		Total Dissolved Solids	58.7	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	17.0	ppm	07/24/2001	07/24/2001	BSF
		Turbidity	6.4	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	61.1	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	65	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	4.8	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	1.8	ppm		07/26/2001	CLJ
OR15CDUP	AD16538	Hardness	16.7	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	ND	ppm	07/26/2001	07/26/2001	ASC
		Total Phosphorus	0.06	ppm	08/06/2001	08/06/2001	ASC
		Total Kjehldahl Nitrogen	0.74	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA
OR15TOCD	AD16539	Total Organic Carbon	14.9	ppm	07/27/2001	07/28/2001	MSR
OR17A	AD16541	Total Suspended Solids	7.3	ppm	07/24/2001	07/26/2001	DMR
		Total Dissolved Solids	528	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	95.4	ppm	07/24/2001	07/24/2001	BSF
		Turbidity	5.5	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	802	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	14	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	100	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	124	ppm		07/26/2001	CLJ
OR17C	AD16543	Hardness	57.0	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	6.36	ppm	08/15/2001	08/15/2001	ASC
		Total Phosphorus	1.24	ppm	08/06/2001	08/06/2001	ASC
		Total Kjehldahl Nitrogen	2.17	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	0.34	ppm	08/07/2001	08/07/2001	NVA
OR17TOC	AD16544	Total Organic Carbon	15.8	ppm	07/27/2001	07/28/2001	MSR
OR17OP	AD16545	Orthophosphate	0.29	ppm	07/19/2001	07/19/2001	DBH
OR18ABLK	AD16547	Total Suspended Solids	ND	ppm	07/24/2001	07/26/2001	DMR
		Total Dissolved Solids	ND	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	ND	ppm	07/24/2001	07/24/2001	BSF
		Turbidity	0.15	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	ND	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	ND	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	8.8	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	ND	ppm		07/26/2001	CLJ
OR18TOCB	AD16550	Total Organic Carbon	ND	ppm	07/27/2001	07/28/2001	MSR
OR18OPBL	AD16551	Orthophosphate	ND	ppm	07/19/2001	07/19/2001	DBH
OR18A	AD16553	Total Suspended Solids	ND	ppm	07/25/2001	07/30/2001	DMR
		Total Dissolved Solids	1914	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	243	ppm	07/24/2001	07/24/2001	BSF

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OR18A	AD16553	Turbidity	2.3	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	2854	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	48	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	130	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	1018	ppm	08/08/2001	08/08/2001	CLJ
OR18C	AD16555	Hardness	39.2	ppm	08/16/2001	08/16/2001	BSF
		Nitrate+Nitrite Nitrogen	34.33	ppm	08/15/2001	08/15/2001	ASC
		Total Phosphorus	0.34	ppm	08/07/2001	08/07/2001	ASC
		Total Kjehldahl Nitrogen	8.63	ppm		08/07/2001	ASC
		Ammonia-Nitrogen	0.31	ppm		08/07/2001	NVA
OR18TOC	AD16556	Total Organic Carbon	63	ppm	07/30/2001	07/31/2001	MSR
OR18OP	AD16557	Orthophosphate	ND	ppm	07/19/2001	07/19/2001	DBH
OR19A	AD16559	Total Suspended Solids	49.6	ppm	07/25/2001	07/30/2001	DMR
		Total Dissolv ed Solids	304	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	26.1	ppm	07/24/2001	07/24/2001	BSF
		Turbidity	18	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	458	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	120	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	40.6	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	111.4	ppm		07/26/2001	CLJ
OR19C	AD16561	Hardness	34.6	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	0.58	ppm	07/26/2001	07/26/2001	ASC
		Total Phosphorus	0.39	ppm	08/13/2001	08/13/2001	ASC
		Total Kjehldahl Nitrogen	1.16	ppm		08/13/2001	ASC
		Ammonia-Nitrogen	0.40	ppm	08/07/2001	08/07/2001	NVA
OR19TOC	AD16562	Total Organic Carbon	12.3	ppm	07/27/2001	07/28/2001	MSR
OR19OP	AD16563	Orthophosphate	0.15	ppm	07/19/2001	07/19/2001	DBH
OR21A	AD16565	Total Suspended Solids	40.0	ppm	07/25/2001	07/30/2001	DMR
		Total Dissolved Solids	1277	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	399	ppm	07/24/2001	07/24/2001	BSF
		Turbidity	500	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	1815	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	660	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	128	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	387	ppm	08/08/2001	08/08/2001	CLJ
OR21C	AD16567	Hardness	131	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	0.12	ppm	07/26/2001	07/26/2001	ASC
		Total Phosphorus	1.39	ppm	08/07/2001	08/07/2001	ASC
		Total Kjehldahl Nitrogen	4.48	ppm		08/07/2001	ASC
		Ammonia-Nitrogen	1.50	ppm		08/07/2001	NVA
OR21TOC	AD16568	Total Organic Carbon	103	ppm	07/30/2001	07/31/2001	MSR
OR21OP	AD16569	Orthophosphate	0.70	ppm	07/19/2001	07/19/2001	DBH
OR1CH	AD16609	Chlorophyll A (calculated)	12.1	ug/L	08/09/2001	08/10/2001	CLP
		Chlorophyll A (raw)	302	ug/L		08/10/2001	CLP
		Volume of sample, Chlorophyll A (raw)	250	ml		08/10/2001	CLP
OR1CHDUP	AD16610	Chlorophyll A (calculated)	12.7	ug/L		08/10/2001	CLP
		Chlorophyll A (raw)	318	ug/L		08/10/2001	CLP

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OR1CHDUP	AD16610	Volume of sample, Chlorophyll A (raw)	250	ml	08/09/2001	08/10/2001	CLP
OR2CH	AD16611	Chlorophyll A (calculated)	9.2	ug/L		08/10/2001	CLP
		Chlorophyll A (raw)	231	ug/L		08/10/2001	CLP
		Volume of sample, Chlorophyll A (raw)	250	ml		08/10/2001	CLP
OR2CHDUP	AD16612	Chlorophyll A (calculated)	9.5	ug/L		08/10/2001	CLP
		Chlorophyll A (raw)	238	ug/L		08/10/2001	CLP
		Volume of sample, Chlorophyll A (raw)	250	ml		08/10/2001	CLP
OR3CH	AD16613	Chlorophyll A (calculated)	10.6	ug/L		08/10/2001	CLP
		Chlorophyll A (raw)	266	ug/L		08/10/2001	CLP
		Volume of sample, Chlorophyll A (raw)	250	ml		08/10/2001	CLP
OR4CH	AD16614	Chlorophyll A (calculated)	8.7	ug/L		08/10/2001	CLP
		Chlorophyll A (raw)	217	ug/L		08/10/2001	CLP
		Volume of sample, Chlorophyll A (raw)	250	ml		08/10/2001	CLP
OR5CH	AD16615	Chlorophyll A (calculated)	10.6	ug/L		08/10/2001	CLP
		Chlorophyll A (raw)	264	ug/L		08/10/2001	CLP
		Volume of sample, Chlorophyll A (raw)	250	ml		08/10/2001	CLP
OR6CH	AD16616	Chlorophyll A (calculated)	18.2	ug/L		08/10/2001	CLP
		Chlorophyll A (raw)	456	ug/L		08/10/2001	CLP
		Volume of sample, Chlorophyll A (raw)	250	ml		08/10/2001	CLP
OR6CHDUP	AD16617	Chlorophyll A (calculated)	18.1	ug/L		08/10/2001	CLP
		Chlorophyll A (raw)	452	ug/L		08/10/2001	CLP
		Volume of sample, Chlorophyll A (raw)	250	ml		08/10/2001	CLP
OR9CH	AD16618	Chlorophyll A (calculated)	8.2	ug/L	08/10/2001	08/10/2001	CLP
		Chlorophyll A (raw)	204	ug/L		08/10/2001	CLP
		Volume of sample, Chlorophyll A (raw)	250	ml		08/10/2001	CLP
OR11CH	AD16619	Chlorophyll A (calculated)	15.7	ug/L		08/10/2001	CLP
		Chlorophyll A (raw)	188.2	ug/L		08/10/2001	CLP
		Volume of sample, Chlorophyll A (raw)	120	ml		08/10/2001	CLP
OR14CH	AD16620	Chlorophyll A (calculated)	26.4	ug/L		08/10/2001	CLP
		Chlorophyll A (raw)	264	ug/L		08/10/2001	CLP
		Volume of sample, Chlorophyll A (raw)	100	ml		08/10/2001	CLP
OR15CH	AD16622	Chlorophyll A (calculated)	12.0	ug/L		08/10/2001	CLP
		Chlorophyll A (raw)	180.2	ug/L		08/10/2001	CLP
		Volume of sample, Chlorophyll A (raw)	150	ml		08/10/2001	CLP
OR21CH	AD16623	Chlorophyll A (calculated)	12.2	ug/L		08/10/2001	CLP
		Chlorophyll A (raw)	243.2	ug/L		08/10/2001	CLP
		Volume of sample, Chlorophyll A (raw)	200	ml		08/10/2001	CLP

Friday, October 05, 2001

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
LABORATORY SERVICES DIVISION
WATER LABORATORY

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ELAINE SORBET, LABORATORY MANAGER

Name of Survey: Ouachita River

Site:	Lab ID:	Analysis	Resul		Date Started:	Date Read:	Analyst:
OR1ABLK	AD16424	TSS	ND	ppm	07/23/2001	07/26/2001	DMR
		TDS	ND	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	ND	ppm	07/23/2001	07/23/2001	BSF
		Turbidity	0.10	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	ND	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	ND	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	ND	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	ND	ppm		07/26/2001	CLJ
OR1BBLK	AD16425	Sodium	1.2	ppm	08/27/2001	08/27/2001	CHR
OR1CBLK	AD16426	Hardness	ND	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	ND	ppm	07/26/2001	07/26/2001	ASC
		TP	ND	ppm	08/06/2001	08/06/2001	ASC
		TKN	ND	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA
OR1TOCBL	AD16427	TOC	ND	ppm	07/25/2001	07/26/2001	MSR
OR1OPBLK	AD16428	Orthophosphate	ND	ppm	07/19/2001	07/19/2001	DBH
OR1UBODB	AD16429	pH, Ultimate BOD survey	5.42	pH units	09/17/2001	09/17/2001	SBW
		TOC (60 Day BOD)	ND	ppm	09/19/2001	09/20/2001	MSR
		TKN (60 Day BOD)	ND	ppm	09/24/2001	09/24/2001	ASC
		NO2NO3 - Initial Reading	ND	ppm	07/20/2001	07/20/2001	DBH
		NO2NO3 - Reading 1	ND	ppm	08/02/2001	08/02/2001	ASC
		NO2NO3 - Reading 2	ND	ppm	08/03/2001	08/03/2001	ASC
		NO2NO3 - Reading 3	ND	ppm		08/03/2001	ASC
		NO2NO3 - Reading 4	ND	ppm		08/03/2001	ASC
		NO2NO3 - Reading 5	ND	ppm	08/16/2001	08/16/2001	ASC
		NO2NO3 - Reading 6	ND	ppm	08/30/2001	08/30/2001	ASC
		NO2NO3 - Reading 7	ND	ppm		08/30/2001	ASC
		NO2NO3 - Reading 8	ND	ppm		08/30/2001	ASC
		NO2NO3 - Reading 9	ND	ppm	09/13/2001	09/13/2001	ASC
		NO2NO3 - Final	ND	ppm	09/21/2001	09/21/2001	SBW
		Non-Filtered BOD 60 - Reading 1	0.1	ppm	07/19/2001	07/20/2001	SBW
		Non-Filtered BOD 60 - Reading 2	0.4	ppm		07/23/2001	SBW
		Non-Filtered BOD 60 - Reading 3	0.7	ppm		07/25/2001	SBW
		Non-Filtered BOD 60 - Reading 4	0.9	ppm		07/30/2001	SBW
		Non-Filtered BOD 60 - Reading 5	0.9	ppm		08/03/2001	SBW
		Non-Filtered BOD 60 - Reading 6	0.9	ppm		08/08/2001	SBW
		Non-Filtered BOD 60 - Reading 7	0.9	ppm		08/17/2001	SBW
		Non-Filtered BOD 60 - Reading 8	1.1	ppm		08/28/2001	SBW

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OR1UBODB	AD16429	Non-Filtered BOD 60 - Reading 9	1.2	ppm	07/19/2001	09/07/2001	SBW
		Non-Filtered BOD 60 - Final	1.2	ppm		09/17/2001	SBW
OR1A	AD16430	TSS	8.5	ppm	07/23/2001	07/26/2001	DMR
		TDS	78.7	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	23.0	ppm	07/23/2001	07/24/2001	BSF
		Turbidity	13	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	111	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	42	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	9.9	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	11.7	ppm		07/26/2001	CLJ
OR1B	AD16431	Sodium	12.0	ppm	08/27/2001	08/27/2001	CHR
OR1C	AD16432	Hardness	23.0	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	0.17	ppm	07/26/2001	07/26/2001	ASC
		TP	0.06	ppm	08/06/2001	08/06/2001	ASC
		TKN	0.67	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA
OR1TOC	AD16433	TOC	6.9	ppm	07/25/2001	07/26/2001	MSR
OR1OP	AD16434	Orthophosphate	0.02	ppm	07/19/2001	07/19/2001	DBH
OR1UBOD	AD16435	pH, Ultimate BOD survey	6.68	pH units	09/17/2001	09/17/2001	SBW
		TOC (60 Day BOD)	3.4	ppm	09/19/2001	09/20/2001	MSR
		TKN (60 Day BOD)	0.24	ppm	09/24/2001	09/24/2001	ASC
		NO2NO3 - Initial Reading	0.15	ppm	07/20/2001	07/20/2001	DBH
		NO2NO3 - Reading 1	0.15	ppm	08/02/2001	08/02/2001	ASC
		NO2NO3 - Reading 2	0.12	ppm	08/03/2001	08/03/2001	ASC
		NO2NO3 - Reading 3	0.12	ppm		08/03/2001	ASC
		NO2NO3 - Reading 4	0.15	ppm		08/03/2001	ASC
		NO2NO3 - Reading 5	0.26	ppm	08/16/2001	08/16/2001	ASC
		NO2NO3 - Reading 6	0.27	ppm	08/30/2001	08/30/2001	ASC
		NO2NO3 - Reading 7	0.32	ppm		08/30/2001	ASC
		NO2NO3 - Reading 8	0.35	ppm		08/30/2001	ASC
		NO2NO3 - Reading 9	0.31	ppm	09/13/2001	09/13/2001	ASC
		NO2NO3 - Final	0.34	ppm	09/21/2001	09/21/2001	SBW
		Non-Filtered BOD 60 - Reading 1	0.5	ppm	07/19/2001	07/20/2001	SBW
		Non-Filtered BOD 60 - Reading 2	1.3	ppm		07/23/2001	SBW
		Non-Filtered BOD 60 - Reading 3	1.7	ppm		07/25/2001	SBW
		Non-Filtered BOD 60 - Reading 4	2.6	ppm		07/30/2001	SBW
		Non-Filtered BOD 60 - Reading 5	3.2	ppm		08/03/2001	SBW
		Non-Filtered BOD 60 - Reading 6	3.7	ppm		08/08/2001	SBW
		Non-Filtered BOD 60 - Reading 7	4.3	ppm		08/17/2001	SBW
		Non-Filtered BOD 60 - Reading 8	4.9	ppm		08/28/2001	SBW
		Non-Filtered BOD 60 - Reading 9	5.3	ppm		09/07/2001	SBW
		Non-Filtered BOD 60 - Final	5.6	ppm		09/17/2001	SBW
OR1ADUP	AD16436	TSS	8.5	ppm	07/23/2001	07/26/2001	DMR
		TDS	79.3	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	23.0	ppm	07/23/2001	07/24/2001	BSF
		Turbidity	13	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	110	umhos/cm	07/24/2001	07/24/2001	NVA

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OR1ADUP	AD16436	True Color	42	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	9.9	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	12.0	ppm		07/26/2001	CLJ
OR1BDUP	AD16437	Sodium	11.8	ppm	08/27/2001	08/27/2001	CHR
OR1CDUP	AD16438	Hardness	23.2	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	0.17	ppm	07/26/2001	07/26/2001	ASC
		TP	0.06	ppm	08/06/2001	08/06/2001	ASC
		TKN	0.68	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA
OR1TOCDU	AD16439	TOC	6.4	ppm	07/25/2001	07/26/2001	MSR
OR1UBODD	AD16440	pH, Ultimate BOD survey	6.74	pH units	09/17/2001	09/17/2001	SBW
		TOC (60 Day BOD)	3.6	ppm	09/19/2001	09/20/2001	MSR
		TKN (60 Day BOD)	0.30	ppm	09/24/2001	09/24/2001	ASC
		NO2NO3 - Initial Reading	0.16	ppm	07/20/2001	07/20/2001	DBH
		NO2NO3 - Reading 1	0.15	ppm	08/02/2001	08/02/2001	ASC
		NO2NO3 - Reading 2	0.12	ppm	08/03/2001	08/03/2001	ASC
		NO2NO3 - Reading 3	0.12	ppm		08/03/2001	ASC
		NO2NO3 - Reading 4	0.16	ppm		08/03/2001	ASC
		NO2NO3 - Reading 5	0.31	ppm	08/16/2001	08/16/2001	ASC
		NO2NO3 - Reading 6	0.38	ppm	08/30/2001	08/30/2001	ASC
		NO2NO3 - Reading 7	0.45	ppm		08/30/2001	ASC
		NO2NO3 - Reading 8	0.48	ppm		08/30/2001	ASC
		NO2NO3 - Reading 9	0.44	ppm	09/13/2001	09/13/2001	ASC
		NO2NO3 - Final	0.44	ppm	09/21/2001	09/21/2001	SBW
		Non-Filtered BOD 60 - Reading 1	0.8	ppm	07/19/2001	07/20/2001	SBW
		Non-Filtered BOD 60 - Reading 2	2.1	ppm		07/23/2001	SBW
		Non-Filtered BOD 60 - Reading 3	2.6	ppm		07/25/2001	SBW
		Non-Filtered BOD 60 - Reading 4	3.9	ppm		07/30/2001	SBW
		Non-Filtered BOD 60 - Reading 5	4.8	ppm		08/03/2001	SBW
		Non-Filtered BOD 60 - Reading 6	5.4	ppm		08/08/2001	SBW
		Non-Filtered BOD 60 - Reading 7	6.1	ppm		08/17/2001	SBW
		Non-Filtered BOD 60 - Reading 8	6.8	ppm		08/28/2001	SBW
		Non-Filtered BOD 60 - Reading 9	7.2	ppm		09/07/2001	SBW
		Non-Filtered BOD 60 - Final	7.6	ppm		09/17/2001	SBW
OR2ABLK	AD16441	TSS	ND	ppm	07/23/2001	07/26/2001	DMR
		TDS	ND	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	ND	ppm	07/23/2001	07/24/2001	BSF
		Turbidity	ND	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	ND	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	ND	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	ND	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	ND	ppm		07/26/2001	CLJ
OR2BBLK	AD16442	Sodium	ND	ppm	08/27/2001	08/27/2001	CHR
OR2CBLK	AD16443	Hardness	ND	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	ND	ppm	07/26/2001	07/26/2001	ASC
		TP	0.06	ppm	08/06/2001	08/06/2001	ASC
		TKN	0.21	ppm		08/06/2001	ASC

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OR2CBLK	AD16443	Ammonia-Nitrogen	ND	ppm	08/06/2001	08/06/2001	NVA
OR2TOCBL	AD16444	TOC	ND	ppm	07/25/2001	07/26/2001	MSR
OR2UBODB	AD16445	pH, Ultimate BOD survey	5.67	pH units	09/17/2001	09/17/2001	SBW
		TOC (60 Day BOD)	ND	ppm	09/19/2001	09/20/2001	MSR
		TKN (60 Day BOD)	ND	ppm	09/24/2001	09/24/2001	ASC
		NO2NO3 - Initial Reading	ND	ppm	07/20/2001	07/20/2001	DBH
		NO2NO3 - Reading 1	ND	ppm	08/02/2001	08/02/2001	ASC
		NO2NO3 - Reading 2	ND	ppm	08/03/2001	08/03/2001	ASC
		NO2NO3 - Reading 3	ND	ppm		08/03/2001	ASC
		NO2NO3 - Reading 4	0.14	ppm		08/03/2001	ASC
		NO2NO3 - Reading 5	ND	ppm	08/16/2001	08/16/2001	ASC
		NO2NO3 - Reading 6	ND	ppm	08/30/2001	08/30/2001	ASC
		NO2NO3 - Reading 7	ND	ppm		08/30/2001	ASC
		NO2NO3 - Reading 8	ND	ppm		08/30/2001	ASC
		NO2NO3 - Reading 9	ND	ppm	09/13/2001	09/13/2001	ASC
		NO2NO3 - Final	ND	ppm	09/21/2001	09/21/2001	SBW
		Non-Filtered BOD 60 - Reading 1	0.1	ppm	07/19/2001	07/20/2001	SBW
		Non-Filtered BOD 60 - Reading 2	0.1	ppm		07/23/2001	SBW
		Non-Filtered BOD 60 - Reading 3	0.2	ppm		07/25/2001	SBW
		Non-Filtered BOD 60 - Reading 4	0.2	ppm		07/30/2001	SBW
		Non-Filtered BOD 60 - Reading 5	0.2	ppm		08/03/2001	SBW
		Non-Filtered BOD 60 - Reading 6	0.2	ppm		08/08/2001	SBW
		Non-Filtered BOD 60 - Reading 7	0.2	ppm		08/17/2001	SBW
		Non-Filtered BOD 60 - Reading 8	0.2	ppm		08/28/2001	SBW
		Non-Filtered BOD 60 - Reading 9	0.3	ppm		09/07/2001	SBW
		Non-Filtered BOD 60 - Final	0.3	ppm		09/17/2001	SBW
OR2A	AD16446	TSS	7.5	ppm	07/23/2001	07/26/2001	DMR
		TDS	86.0	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	22.7	ppm	07/23/2001	07/24/2001	BSF
		Turbidity	13	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	112	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	49	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	10.4	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	14.3	ppm		07/26/2001	CLJ
OR2B	AD16447	Sodium	12.1	ppm	08/27/2001	08/27/2001	CHR
OR2C	AD16448	Hardness	22.8	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	0.17	ppm	07/26/2001	07/26/2001	ASC
		TP	0.11	ppm	08/06/2001	08/06/2001	ASC
		TKN	0.34	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA
OR2TOC	AD16449	TOC	6.1	ppm	07/25/2001	07/26/2001	MSR
OR2UBOD	AD16450	pH, Ultimate BOD survey	6.60	pH units	09/17/2001	09/17/2001	SBW
		TOC (60 Day BOD)	4.3	ppm	09/19/2001	09/20/2001	MSR
		TKN (60 Day BOD)	0.30	ppm	09/24/2001	09/24/2001	ASC
		NO2NO3 - Initial Reading	0.17	ppm	07/20/2001	07/20/2001	DBH
		NO2NO3 - Reading 1	0.17	ppm	08/02/2001	08/02/2001	ASC
		NO2NO3 - Reading 2	0.14	ppm	08/03/2001	08/03/2001	ASC

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OR2UBOD	AD16450	NO2NO3 - Reading 3	0.14	ppm	08/03/2001	08/03/2001	ASC
		NO2NO3 - Reading 4	ND	ppm		08/03/2001	ASC
		NO2NO3 - Reading 5	0.27	ppm	08/16/2001	08/16/2001	ASC
		NO2NO3 - Reading 6	0.28	ppm	08/30/2001	08/30/2001	ASC
		NO2NO3 - Reading 7	0.33	ppm		08/30/2001	ASC
		NO2NO3 - Reading 8	0.35	ppm		08/30/2001	ASC
		NO2NO3 - Reading 9	0.31	ppm	09/13/2001	09/13/2001	ASC
		NO2NO3 - Final	0.32	ppm	09/21/2001	09/21/2001	SBW
		Non-Filtered BOD 60 - Reading 1	0.5	ppm	07/19/2001	07/20/2001	SBW
		Non-Filtered BOD 60 - Reading 2	1.2	ppm		07/23/2001	SBW
		Non-Filtered BOD 60 - Reading 3	1.6	ppm		07/25/2001	SBW
		Non-Filtered BOD 60 - Reading 4	2.4	ppm		07/30/2001	SBW
		Non-Filtered BOD 60 - Reading 5	3.0	ppm		08/03/2001	SBW
		Non-Filtered BOD 60 - Reading 6	3.4	ppm		08/08/2001	SBW
		Non-Filtered BOD 60 - Reading 7	4.0	ppm		08/17/2001	SBW
		Non-Filtered BOD 60 - Reading 8	4.6	ppm		08/28/2001	SBW
		Non-Filtered BOD 60 - Reading 9	5.1	ppm		09/07/2001	SBW
		Non-Filtered BOD 60 - Final	5.4	ppm		09/17/2001	SBW
OR2ADUP	AD16451	TSS	8.0	ppm	07/23/2001	07/26/2001	DMR
		TDS	88.0	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	22.8	ppm	07/23/2001	07/24/2001	BSF
		Turbidity	13	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	112	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	50	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	10.4	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	13.2	ppm		07/26/2001	CLJ
OR2BDUP	AD16452	Sodium	12.2	ppm	08/27/2001	08/27/2001	CHR
OR2CDUP	AD16453	Hardness	23.1	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	0.19	ppm	07/26/2001	07/26/2001	ASC
		TP	0.10	ppm	08/06/2001	08/06/2001	ASC
		TKN	0.44	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA
OR2TOCDU	AD16454	TOC	6.7	ppm	07/25/2001	07/26/2001	MSR
OR2UBODD	AD16455	pH, Ultimate BOD survey	6.70	pH units	09/17/2001	09/17/2001	SBW
		TOC (60 Day BOD)	5.4	ppm	09/19/2001	09/20/2001	MSR
		TKN (60 Day BOD)	0.60	ppm	09/24/2001	09/24/2001	ASC
		NO2NO3 - Initial Reading	0.16	ppm	07/20/2001	07/20/2001	DBH
		NO2NO3 - Reading 1	0.17	ppm	08/02/2001	08/02/2001	ASC
		NO2NO3 - Reading 2	0.13	ppm	08/03/2001	08/03/2001	ASC
		NO2NO3 - Reading 3	0.13	ppm		08/03/2001	ASC
		NO2NO3 - Reading 4	0.18	ppm		08/03/2001	ASC
		NO2NO3 - Reading 5	0.28	ppm	08/16/2001	08/16/2001	ASC
		NO2NO3 - Reading 6	0.29	ppm	08/30/2001	08/30/2001	ASC
		NO2NO3 - Reading 7	0.34	ppm		08/30/2001	ASC
		NO2NO3 - Reading 8	0.35	ppm		08/30/2001	ASC
		NO2NO3 - Reading 9	0.34	ppm	09/13/2001	09/13/2001	ASC
		NO2NO3 - Final	0.34	ppm	09/21/2001	09/21/2001	SBW

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OR2UBODD	AD16455	Non-Filtered BOD 60 - Reading 1	0.5	ppm	07/19/2001	07/20/2001	SBW
		Non-Filtered BOD 60 - Reading 2	1.2	ppm		07/23/2001	SBW
		Non-Filtered BOD 60 - Reading 3	1.5	ppm		07/25/2001	SBW
		Non-Filtered BOD 60 - Reading 4	2.3	ppm		07/30/2001	SBW
		Non-Filtered BOD 60 - Reading 5	2.9	ppm		08/03/2001	SBW
		Non-Filtered BOD 60 - Reading 6	3.3	ppm		08/08/2001	SBW
		Non-Filtered BOD 60 - Reading 7	3.9	ppm		08/17/2001	SBW
		Non-Filtered BOD 60 - Reading 8	4.5	ppm		08/28/2001	SBW
		Non-Filtered BOD 60 - Reading 9	4.9	ppm		09/07/2001	SBW
		Non-Filtered BOD 60 - Final	5.3	ppm		09/17/2001	SBW
OR3A	AD16456	TSS	9.6	ppm	07/26/2001	07/26/2001	DMR
		TDS	96.0	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	21.6	ppm	07/23/2001	07/24/2001	BSF
		Turbidity	13	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	111	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	55	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	10.9	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	12.6	ppm		07/26/2001	CLJ
OR3B	AD16457	Sodium	12.2	ppm	08/27/2001	08/27/2001	CHR
OR3C	AD16458	Hardness	21.9	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	0.19	ppm	07/26/2001	07/26/2001	ASC
		TP	0.09	ppm	08/06/2001	08/06/2001	ASC
		TKN	0.52	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA
OR3TOC	AD16459	TOC	8.0	ppm	07/25/2001	07/26/2001	MSR
OR3UBOD	AD16460	pH, Ultimate BOD survey	6.78	pH units	09/17/2001	09/17/2001	SBW
		TOC (60 Day BOD)	6.1	ppm	09/19/2001	09/20/2001	MSR
		TKN (60 Day BOD)	0.68	ppm	09/24/2001	09/24/2001	ASC
		NO2NO3 - Initial Reading	0.18	ppm	07/20/2001	07/20/2001	DBH
		NO2NO3 - Reading 1	0.19	ppm	08/02/2001	08/02/2001	ASC
		NO2NO3 - Reading 2	0.15	ppm	08/03/2001	08/03/2001	ASC
		NO2NO3 - Reading 3	0.15	ppm		08/03/2001	ASC
		NO2NO3 - Reading 4	0.18	ppm		08/03/2001	ASC
		NO2NO3 - Reading 5	0.31	ppm	08/16/2001	08/16/2001	ASC
		NO2NO3 - Reading 6	0.34	ppm	08/30/2001	08/30/2001	ASC
		NO2NO3 - Reading 7	0.40	ppm		08/30/2001	ASC
		NO2NO3 - Reading 8	0.44	ppm		08/30/2001	ASC
		NO2NO3 - Reading 9	0.40	ppm	09/13/2001	09/13/2001	ASC
		NO2NO3 - Final	0.42	ppm	09/21/2001	09/21/2001	SBW
		Non-Filtered BOD 60 - Reading 1	0.6	ppm	07/19/2001	07/20/2001	SBW
		Non-Filtered BOD 60 - Reading 2	1.6	ppm		07/23/2001	SBW
		Non-Filtered BOD 60 - Reading 3	2.0	ppm		07/25/2001	SBW
		Non-Filtered BOD 60 - Reading 4	3.0	ppm		07/30/2001	SBW
		Non-Filtered BOD 60 - Reading 5	3.8	ppm		08/03/2001	SBW
		Non-Filtered BOD 60 - Reading 6	4.4	ppm		08/08/2001	SBW
		Non-Filtered BOD 60 - Reading 7	5.1	ppm		08/17/2001	SBW
		Non-Filtered BOD 60 - Reading 8	5.7	ppm		08/28/2001	SBW

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OR3UBOD	AD16460	Non-Filtered BOD 60 - Reading 9	6.2	ppm	07/19/2001	09/07/2001	SBW
		Non-Filtered BOD 60 - Final	6.5	ppm		09/17/2001	SBW
OR4A	AD16461	TSS	8.5	ppm	07/23/2001	07/26/2001	DMR
		TDS	102	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	23.8	ppm	07/23/2001	07/24/2001	BSF
		Turbidity	15	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	128	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	55	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	14.0	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	13.5	ppm		07/26/2001	CLJ
OR4B	AD16462	Sodium	14.7	ppm	08/27/2001	08/27/2001	CHR
OR4C	AD16463	Hardness	24.6	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	0.20	ppm	07/26/2001	07/26/2001	ASC
		TP	0.07	ppm	08/06/2001	08/06/2001	ASC
		TKN	0.61	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA
OR4TOC	AD16464	TOC	6.8	ppm	07/25/2001	07/26/2001	MSR
OR4OP	AD16465	Orthophosphate	0.03	ppm	07/19/2001	07/19/2001	DBH
OR4UBOD	AD16466	pH, Ultimate BOD survey	6.77	pH units	09/17/2001	09/17/2001	SBW
		TOC (60 Day BOD)	7.3	ppm	09/19/2001	09/20/2001	MSR
		TKN (60 Day BOD)	0.33	ppm	09/24/2001	09/24/2001	ASC
		NO2NO3 - Initial Reading	0.20	ppm	07/20/2001	07/20/2001	DBH
		NO2NO3 - Reading 1	0.21	ppm	08/02/2001	08/02/2001	ASC
		NO2NO3 - Reading 2	0.16	ppm	08/03/2001	08/03/2001	ASC
		NO2NO3 - Reading 3	0.16	ppm		08/03/2001	ASC
		NO2NO3 - Reading 4	0.20	ppm		08/03/2001	ASC
		NO2NO3 - Reading 5	0.36	ppm	08/16/2001	08/16/2001	ASC
		NO2NO3 - Reading 6	0.43	ppm	08/30/2001	08/30/2001	ASC
		NO2NO3 - Reading 7	0.50	ppm		08/30/2001	ASC
		NO2NO3 - Reading 8	0.54	ppm		08/30/2001	ASC
		NO2NO3 - Reading 9	0.50	ppm	09/13/2001	09/13/2001	ASC
		NO2NO3 - Final	0.48	ppm	09/21/2001	09/21/2001	SBW
		Non-Filtered BOD 60 - Reading 1	0.7	ppm	07/19/2001	07/20/2001	SBW
		Non-Filtered BOD 60 - Reading 2	1.7	ppm		07/23/2001	SBW
		Non-Filtered BOD 60 - Reading 3	2.2	ppm		07/25/2001	SBW
		Non-Filtered BOD 60 - Reading 4	3.4	ppm		07/30/2001	SBW
		Non-Filtered BOD 60 - Reading 5	4.4	ppm		08/03/2001	SBW
		Non-Filtered BOD 60 - Reading 6	5.0	ppm		08/08/2001	SBW
		Non-Filtered BOD 60 - Reading 7	5.8	ppm		08/17/2001	SBW
		Non-Filtered BOD 60 - Reading 8	6.6	ppm		08/28/2001	SBW
		Non-Filtered BOD 60 - Reading 9	7.1	ppm		09/07/2001	SBW
		Non-Filtered BOD 60 - Final	7.5	ppm		09/17/2001	SBW
OR5A	AD16467	TSS	6.5	ppm	07/23/2001	07/26/2001	DMR
		TDS	103	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	25.8	ppm	07/23/2001	07/24/2001	BSF
		Turbidity	15	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	147	umhos/cm	07/24/2001	07/24/2001	NVA

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OR5A	AD16467	True Color	55	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	16.5	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	16.7	ppm		07/26/2001	CLJ
OR5B	AD16468	Sodium	17.6	ppm	08/27/2001	08/27/2001	CHR
OR5C	AD16469	Hardness	26.6	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	0.21	ppm	08/02/2001	08/02/2001	ASC
		TP	0.09	ppm	08/06/2001	08/06/2001	ASC
		TKN	0.73	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA
OR5TOC	AD16470	TOC	6.7	ppm	07/27/2001	07/28/2001	MSR
OR5OP	AD16471	Orthophosphate	0.02	ppm	07/19/2001	07/19/2001	DBH
OR5UBOD	AD16472	pH, Ultimate BOD survey	6.81	pH units	09/17/2001	09/17/2001	SBW
		TOC (60 Day BOD)	5.0	ppm	09/19/2001	09/20/2001	MSR
		TKN (60 Day BOD)	0.35	ppm	09/24/2001	09/24/2001	ASC
		NO2NO3 - Initial Reading	0.21	ppm	07/20/2001	07/20/2001	DBH
		NO2NO3 - Reading 1	0.20	ppm	08/02/2001	08/02/2001	ASC
		NO2NO3 - Reading 2	0.17	ppm	08/03/2001	08/03/2001	ASC
		NO2NO3 - Reading 3	0.17	ppm		08/03/2001	ASC
		NO2NO3 - Reading 4	0.27	ppm		08/03/2001	ASC
		NO2NO3 - Reading 5	0.40	ppm	08/16/2001	08/16/2001	ASC
		NO2NO3 - Reading 6	0.46	ppm	08/30/2001	08/30/2001	ASC
		NO2NO3 - Reading 7	0.52	ppm		08/30/2001	ASC
		NO2NO3 - Reading 8	0.56	ppm		08/30/2001	ASC
		NO2NO3 - Reading 9	0.55	ppm	09/13/2001	09/13/2001	ASC
		NO2NO3 - Final	0.54	ppm	09/21/2001	09/21/2001	SBW
		Non-Filtered BOD 60 - Reading 1	0.9	ppm	07/19/2001	07/20/2001	SBW
		Non-Filtered BOD 60 - Reading 2	2.1	ppm		07/23/2001	SBW
		Non-Filtered BOD 60 - Reading 3	2.7	ppm		07/25/2001	SBW
		Non-Filtered BOD 60 - Reading 4	4.2	ppm		07/30/2001	SBW
		Non-Filtered BOD 60 - Reading 5	4.9	ppm		08/03/2001	SBW
		Non-Filtered BOD 60 - Reading 6	5.5	ppm		08/08/2001	SBW
		Non-Filtered BOD 60 - Reading 7	6.3	ppm		08/17/2001	SBW
		Non-Filtered BOD 60 - Reading 8	7.0	ppm		08/28/2001	SBW
		Non-Filtered BOD 60 - Reading 9	7.5	ppm		09/07/2001	SBW
		Non-Filtered BOD 60 - Final	8.0	ppm		09/17/2001	SBW
OR6ABLK	AD16473	TSS	ND	ppm	07/23/2001	07/26/2001	DMR
		TDS	ND	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	ND	ppm	07/23/2001	07/24/2001	BSF
		Turbidity	ND	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	ND	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	ND	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	ND	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	ND	ppm		07/26/2001	CLJ
OR6BBLK	AD16474	Sodium	ND	ppm	08/27/2001	08/27/2001	CHR
OR6CBLK	AD16475	Hardness	ND	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	ND	ppm	07/26/2001	07/26/2001	ASC
		TP	ND	ppm	08/06/2001	08/06/2001	ASC

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OR6CBLK	AD16475	TKN	ND	ppm	08/06/2001	08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA
OR6TOCBL	AD16476	TOC	ND	ppm	07/27/2001	07/28/2001	MSR
OR6OPBLK	AD16477	Orthophosphate	ND	ppm	07/19/2001	07/19/2001	DBH
OR6UBODB	AD16478	pH, Ultimate BOD survey	6.00	pH units	09/17/2001	09/17/2001	SBW
		TOC (60 Day BOD)	ND	ppm	09/19/2001	09/20/2001	MSR
		TKN (60 Day BOD)	ND	ppm	09/24/2001	09/24/2001	ASC
		NO2NO3 - Initial Reading	ND	ppm	07/20/2001	07/20/2001	DBH
		NO2NO3 - Reading 1	ND	ppm	08/02/2001	08/02/2001	ASC
		NO2NO3 - Reading 2	ND	ppm	08/03/2001	08/03/2001	ASC
		NO2NO3 - Reading 3	ND	ppm		08/03/2001	ASC
		NO2NO3 - Reading 4	ND	ppm		08/03/2001	ASC
		NO2NO3 - Reading 5	ND	ppm	08/16/2001	08/16/2001	ASC
		NO2NO3 - Reading 6	ND	ppm	08/30/2001	08/30/2001	ASC
		NO2NO3 - Reading 7	ND	ppm		08/30/2001	ASC
		NO2NO3 - Reading 8	ND	ppm		08/30/2001	ASC
		NO2NO3 - Reading 9	ND	ppm	09/13/2001	09/13/2001	ASC
		NO2NO3 - Final	ND	ppm	09/21/2001	09/21/2001	SBW
		Non-Filtered BOD 60 - Reading 1	0.1	ppm	07/19/2001	07/20/2001	SBW
		Non-Filtered BOD 60 - Reading 2	0.1	ppm		07/23/2001	SBW
		Non-Filtered BOD 60 - Reading 3	0.2	ppm		07/25/2001	SBW
		Non-Filtered BOD 60 - Reading 4	0.3	ppm		07/30/2001	SBW
		Non-Filtered BOD 60 - Reading 5	0.2	ppm		08/03/2001	SBW
		Non-Filtered BOD 60 - Reading 6	0.3	ppm		08/08/2001	SBW
		Non-Filtered BOD 60 - Reading 7	0.2	ppm		08/17/2001	SBW
		Non-Filtered BOD 60 - Reading 8	0.3	ppm		08/28/2001	SBW
		Non-Filtered BOD 60 - Reading 9	0.3	ppm		09/07/2001	SBW
		Non-Filtered BOD 60 - Final	0.4	ppm		09/17/2001	SBW
OR6A	AD16479	TSS	6.4	ppm	07/23/2001	07/26/2001	DMR
		TDS	116	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	25.2	ppm	07/23/2001	07/24/2001	BSF
		Turbidity	14	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	171	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	55	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	24.8	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	16.9	ppm		07/26/2001	CLJ
OR6B	AD16480	Sodium	21.6	ppm	08/27/2001	08/27/2001	CHR
OR6C	AD16481	Hardness	28.1	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	0.24	ppm	07/26/2001	07/26/2001	ASC
		TP	0.09	ppm	08/06/2001	08/06/2001	ASC
		TKN	0.54	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA
OR6TOC	AD16482	TOC	8.3	ppm	07/27/2001	07/28/2001	MSR
OR6OP	AD16483	Orthophosphate	0.03	ppm	07/19/2001	07/19/2001	DBH
OR6UBOD	AD16484	pH, Ultimate BOD survey	6.94	pH units	09/17/2001	09/17/2001	SBW
		TOC (60 Day BOD)	5.4	ppm	09/19/2001	09/20/2001	MSR
		TKN (60 Day BOD)	0.37	ppm	09/24/2001	09/24/2001	ASC

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OR6UBOD	AD16484	NO2NO3 - Initial Reading	0.25	ppm	07/20/2001	07/20/2001	DBH
		NO2NO3 - Reading 1	0.25	ppm	08/02/2001	08/02/2001	ASC
		NO2NO3 - Reading 2	0.20	ppm	08/03/2001	08/03/2001	ASC
		NO2NO3 - Reading 3	0.21	ppm		08/03/2001	ASC
		NO2NO3 - Reading 4	0.31	ppm		08/03/2001	ASC
		NO2NO3 - Reading 5	0.44	ppm	08/16/2001	08/16/2001	ASC
		NO2NO3 - Reading 6	0.46	ppm	08/30/2001	08/30/2001	ASC
		NO2NO3 - Reading 7	0.54	ppm		08/30/2001	ASC
		NO2NO3 - Reading 8	0.57	ppm		08/30/2001	ASC
		NO2NO3 - Reading 9	0.56	ppm	09/13/2001	09/13/2001	ASC
		NO2NO3 - Final	0.55	ppm	09/21/2001	09/21/2001	SBW
		Non-Filtered BOD 60 - Reading 1	0.7	ppm	07/19/2001	07/20/2001	SBW
		Non-Filtered BOD 60 - Reading 2	2.1	ppm		07/23/2001	SBW
		Non-Filtered BOD 60 - Reading 3	2.7	ppm		07/25/2001	SBW
		Non-Filtered BOD 60 - Reading 4	4.3	ppm		07/30/2001	SBW
		Non-Filtered BOD 60 - Reading 5	4.9	ppm		08/03/2001	SBW
		Non-Filtered BOD 60 - Reading 6	5.4	ppm		08/08/2001	SBW
		Non-Filtered BOD 60 - Reading 7	6.2	ppm		08/17/2001	SBW
		Non-Filtered BOD 60 - Reading 8	7.1	ppm		08/28/2001	SBW
		Non-Filtered BOD 60 - Reading 9	7.6	ppm		09/07/2001	SBW
		Non-Filtered BOD 60 - Final	8.1	ppm		09/17/2001	SBW
OR6ADUP	AD16485	TSS	7.6	ppm	07/23/2001	07/26/2001	DMR
		TDS	113	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	25.1	ppm	07/24/2001	07/24/2001	BSF
		Turbidity	12	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	171	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	55	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	25.0	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	17.3	ppm		07/26/2001	CLJ
OR6BDUP	AD16486	Sodium	21.2	ppm	08/27/2001	08/27/2001	CHR
OR6CDUP	AD16487	Hardness	28.8	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	0.24	ppm	08/02/2001	08/02/2001	ASC
		TP	0.08	ppm	08/06/2001	08/06/2001	ASC
		TKN	0.59	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA
OR6TOCDU	AD16488	TOC	7.8	ppm	07/27/2001	07/28/2001	MSR
OR6UBODD	AD16489	pH, Ultimate BOD survey	6.98	pH units	09/17/2001	09/17/2001	SBW
		TOC (60 Day BOD)	5.9	ppm	09/19/2001	09/20/2001	MSR
		TKN (60 Day BOD)	0.31	ppm	09/24/2001	09/24/2001	ASC
		NO2NO3 - Initial Reading	0.24	ppm	07/20/2001	07/20/2001	DBH
		NO2NO3 - Reading 1	0.25	ppm	08/02/2001	08/02/2001	ASC
		NO2NO3 - Reading 2	0.20	ppm	08/03/2001	08/03/2001	ASC
		NO2NO3 - Reading 3	0.21	ppm		08/03/2001	ASC
		NO2NO3 - Reading 4	0.31	ppm		08/03/2001	ASC
		NO2NO3 - Reading 5	0.42	ppm	08/16/2001	08/16/2001	ASC
		NO2NO3 - Reading 6	0.46	ppm	08/30/2001	08/30/2001	ASC
		NO2NO3 - Reading 7	0.52	ppm		08/30/2001	ASC

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OR6UBODD	AD16489	NO2NO3 - Reading 8	0.55	ppm	08/30/2001	08/30/2001	ASC
		NO2NO3 - Reading 9	0.52	ppm	09/13/2001	09/13/2001	ASC
		NO2NO3 - Final	0.54	ppm	09/21/2001	09/21/2001	SBW
		Non-Filtered BOD 60 - Reading 1	0.6	ppm	07/19/2001	07/20/2001	SBW
		Non-Filtered BOD 60 - Reading 2	2.0	ppm		07/23/2001	SBW
		Non-Filtered BOD 60 - Reading 3	2.6	ppm		07/25/2001	SBW
		Non-Filtered BOD 60 - Reading 4	4.1	ppm		07/30/2001	SBW
		Non-Filtered BOD 60 - Reading 5	4.7	ppm		08/03/2001	SBW
		Non-Filtered BOD 60 - Reading 6	5.3	ppm		08/08/2001	SBW
		Non-Filtered BOD 60 - Reading 7	6.1	ppm		08/17/2001	SBW
		Non-Filtered BOD 60 - Reading 8	6.9	ppm		08/28/2001	SBW
		Non-Filtered BOD 60 - Reading 9	7.5	ppm		09/07/2001	SBW
		Non-Filtered BOD 60 - Final	8.0	ppm		09/17/2001	SBW
OR9A	AD16490	TSS	5.3	ppm	07/24/2001	07/26/2001	DMR
		TDS	106	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	21.9	ppm	07/24/2001	07/24/2001	BSF
		Turbidity	14	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	142	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	60	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	16.9	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	15.5	ppm		07/26/2001	CLJ
OR9B	AD16491	Sodium	16.8	ppm	08/27/2001	08/27/2001	CHR
OR9C	AD16492	Hardness	25.4	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	0.47	ppm	08/02/2001	08/02/2001	ASC
		TP	0.08	ppm	08/06/2001	08/06/2001	ASC
		TKN	0.59	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA
OR9TOC	AD16493	TOC	11.1	ppm	07/27/2001	07/28/2001	MSR
OR9OP	AD16494	Orthophosphate	0.03	ppm	07/19/2001	07/19/2001	DBH
OR9UBOD	AD16495	pH, Ultimate BOD survey	6.97	pH units	09/17/2001	09/17/2001	SBW
		TOC (60 Day BOD)	6.5	ppm	09/19/2001	09/20/2001	MSR
		TKN (60 Day BOD)	0.36	ppm	09/24/2001	09/24/2001	ASC
		NO2NO3 - Initial Reading	0.49	ppm	07/20/2001	07/20/2001	DBH
		NO2NO3 - Reading 1	0.53	ppm	08/02/2001	08/02/2001	ASC
		NO2NO3 - Reading 2	0.39	ppm	08/03/2001	08/03/2001	ASC
		NO2NO3 - Reading 3	0.43	ppm		08/03/2001	ASC
		NO2NO3 - Reading 4	0.54	ppm		08/03/2001	ASC
		NO2NO3 - Reading 5	0.60	ppm	08/16/2001	08/16/2001	ASC
		NO2NO3 - Reading 6	0.61	ppm	08/30/2001	08/30/2001	ASC
		NO2NO3 - Reading 7	0.65	ppm		08/30/2001	ASC
		NO2NO3 - Reading 8	0.70	ppm		08/30/2001	ASC
		NO2NO3 - Reading 9	0.67	ppm	09/13/2001	09/13/2001	ASC
		NO2NO3 - Final	0.67	ppm	09/21/2001	09/21/2001	SBW
		Non-Filtered BOD 60 - Reading 1	0.4	ppm	07/19/2001	07/20/2001	SBW
		Non-Filtered BOD 60 - Reading 2	1.2	ppm		07/23/2001	SBW
		Non-Filtered BOD 60 - Reading 3	1.6	ppm		07/25/2001	SBW
		Non-Filtered BOD 60 - Reading 4	2.7	ppm		07/30/2001	SBW

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OR9UBOD	AD16495	Non-Filtered BOD 60 - Reading 5	3.1	ppm	07/19/2001	08/03/2001	SBW
		Non-Filtered BOD 60 - Reading 6	3.5	ppm		08/08/2001	SBW
		Non-Filtered BOD 60 - Reading 7	4.2	ppm		08/17/2001	SBW
		Non-Filtered BOD 60 - Reading 8	5.0	ppm		08/28/2001	SBW
		Non-Filtered BOD 60 - Reading 9	5.6	ppm		09/07/2001	SBW
		Non-Filtered BOD 60 - Final	6.1	ppm		09/17/2001	SBW
OR11ABLK	AD16496	TSS	ND	ppm	07/24/2001	07/26/2001	DMR
		TDS	ND	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	ND	ppm	07/24/2001	07/24/2001	BSF
		Turbidity	ND	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	ND	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	ND	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	ND	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	ND	ppm		07/26/2001	CLJ
OR11BBLK	AD16497	Sodium	ND	ppm	08/27/2001	08/27/2001	CHR
OR11CBLK	AD16498	Hardness	ND	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	0.02	ppm	08/02/2001	08/02/2001	ASC
		TP	0.06	ppm	08/06/2001	08/06/2001	ASC
		TKN	ND	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA
OR11TOCB	AD16499	TOC	ND	ppm	07/27/2001	07/28/2001	MSR
OR11OPBL	AD16500	Orthophosphate	ND	ppm	07/19/2001	07/19/2001	DBH
OR11UBOB	AD16501	pH, Ultimate BOD survey	6.01	pH units	09/17/2001	09/17/2001	SBW
		TOC (60 Day BOD)	ND	ppm	09/19/2001	09/20/2001	MSR
		TKN (60 Day BOD)	ND	ppm	09/24/2001	09/24/2001	ASC
		NO2NO3 - Initial Reading	ND	ppm	07/20/2001	07/20/2001	DBH
		NO2NO3 - Reading 1	ND	ppm	08/02/2001	08/02/2001	ASC
		NO2NO3 - Reading 2	ND	ppm	08/03/2001	08/03/2001	ASC
		NO2NO3 - Reading 3	ND	ppm		08/03/2001	ASC
		NO2NO3 - Reading 4	ND	ppm		08/03/2001	ASC
		NO2NO3 - Reading 5	ND	ppm	08/16/2001	08/16/2001	ASC
		NO2NO3 - Reading 6	ND	ppm	08/30/2001	08/30/2001	ASC
		NO2NO3 - Reading 7	ND	ppm		08/30/2001	ASC
		NO2NO3 - Reading 8	ND	ppm		08/30/2001	ASC
		NO2NO3 - Reading 9	ND	ppm	09/13/2001	09/13/2001	ASC
		NO2NO3 - Final	ND	ppm	09/21/2001	09/21/2001	SBW
		Non-Filtered BOD 60 - Reading 1	0.1	ppm	07/19/2001	07/20/2001	SBW
		Non-Filtered BOD 60 - Reading 2	0.1	ppm		07/23/2001	SBW
		Non-Filtered BOD 60 - Reading 3	0.2	ppm		07/25/2001	SBW
		Non-Filtered BOD 60 - Reading 4	0.3	ppm		07/30/2001	SBW
		Non-Filtered BOD 60 - Reading 5	0.2	ppm		08/03/2001	SBW
		Non-Filtered BOD 60 - Reading 6	0.2	ppm		08/08/2001	SBW
		Non-Filtered BOD 60 - Reading 7	0.2	ppm		08/17/2001	SBW
		Non-Filtered BOD 60 - Reading 8	0.3	ppm		08/28/2001	SBW
		Non-Filtered BOD 60 - Reading 9	0.3	ppm		09/07/2001	SBW
		Non-Filtered BOD 60 - Final	0.4	ppm		09/17/2001	SBW
OR11A	AD16502	TSS	21.0	ppm	07/24/2001	07/26/2001	DMR

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OR11A	AD16502	TDS	115	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	57.3	ppm	07/24/2001	07/24/2001	BSF
		Turbidity	30	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	174	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	38	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	13.7	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	7.9	ppm		07/26/2001	CLJ
OR11B	AD16503	Sodium	10.6	ppm	08/27/2001	08/27/2001	CHR
OR11C	AD16504	Hardness	58.6	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	0.09	ppm	07/26/2001	07/26/2001	ASC
		TP	0.27	ppm	08/07/2001	08/07/2001	ASC
		TKN	0.60	ppm		08/07/2001	ASC
		Ammonia-Nitrogen	ND	ppm	08/06/2001	08/06/2001	NVA
OR11TOC	AD16505	TOC	7.5	ppm	07/27/2001	07/28/2001	MSR
OR11OP	AD16506	Orthophosphate	0.03	ppm	07/19/2001	07/19/2001	DBH
OR11UBOD	AD16507	pH, Ultimate BOD survey	7.08	pH units	09/17/2001	09/17/2001	SBW
		TOC (60 Day BOD)	3.8	ppm	09/19/2001	09/20/2001	MSR
		TKN (60 Day BOD)	0.44	ppm	09/24/2001	09/24/2001	ASC
		NO2NO3 - Initial Reading	0.09	ppm	07/20/2001	07/20/2001	DBH
		NO2NO3 - Reading 1	0.10	ppm	08/02/2001	08/02/2001	ASC
		NO2NO3 - Reading 2	0.07	ppm	08/03/2001	08/03/2001	ASC
		NO2NO3 - Reading 3	0.09	ppm		08/03/2001	ASC
		NO2NO3 - Reading 4	0.23	ppm		08/03/2001	ASC
		NO2NO3 - Reading 5	0.33	ppm	08/16/2001	08/16/2001	ASC
		NO2NO3 - Reading 6	0.35	ppm	08/30/2001	08/30/2001	ASC
		NO2NO3 - Reading 7	0.43	ppm		08/30/2001	ASC
		NO2NO3 - Reading 8	0.46	ppm		08/30/2001	ASC
		NO2NO3 - Reading 9	0.42	ppm	09/13/2001	09/13/2001	ASC
		NO2NO3 - Final	0.45	ppm	09/21/2001	09/21/2001	SBW
		Non-Filtered BOD 60 - Reading 1	0.9	ppm	07/19/2001	07/20/2001	SBW
		Non-Filtered BOD 60 - Reading 2	2.6	ppm		07/23/2001	SBW
		Non-Filtered BOD 60 - Reading 3	3.4	ppm		07/25/2001	SBW
		Non-Filtered BOD 60 - Reading 4	5.4	ppm		07/30/2001	SBW
		Non-Filtered BOD 60 - Reading 5	6.1	ppm		08/03/2001	SBW
		Non-Filtered BOD 60 - Reading 6	6.7	ppm		08/08/2001	SBW
		Non-Filtered BOD 60 - Reading 7	7.5	ppm		08/17/2001	SBW
		Non-Filtered BOD 60 - Reading 8	8.3	ppm		08/28/2001	SBW
		Non-Filtered BOD 60 - Reading 9	8.8	ppm		09/07/2001	SBW
		Non-Filtered BOD 60 - Final	9.2	ppm		09/17/2001	SBW
OR11ADUP	AD16508	TSS	25.0	ppm	07/24/2001	07/26/2001	DMR
		TDS	115	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	56.8	ppm	07/24/2001	07/24/2001	BSF
		Turbidity	30	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	174	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	39	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	13.8	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	7.4	ppm		07/26/2001	CLJ

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OR11BDUP	AD16509	Sodium	10.6	ppm	08/27/2001	08/27/2001	CHR
OR11CDUP	AD16510	Hardness	58.5	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	0.09	ppm	08/02/2001	08/02/2001	ASC
		TP	0.16	ppm	08/06/2001	08/06/2001	ASC
		TKN	0.70	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA
OR11TOCD	AD16511	TOC	7.3	ppm	07/27/2001	07/28/2001	MSR
OR11UBDD	AD16512	pH, Ultimate BOD survey	7.16	pH units	09/17/2001	09/17/2001	SBW
		TOC (60 Day BOD)	4	ppm	09/19/2001	09/20/2001	MSR
		TKN (60 Day BOD)	0.41	ppm	09/24/2001	09/24/2001	ASC
		NO2NO3 - Initial Reading	0.09	ppm	07/20/2001	07/20/2001	DBH
		NO2NO3 - Reading 1	0.09	ppm	08/02/2001	08/02/2001	ASC
		NO2NO3 - Reading 2	0.07	ppm	08/03/2001	08/03/2001	ASC
		NO2NO3 - Reading 3	0.07	ppm		08/03/2001	ASC
		NO2NO3 - Reading 4	0.22	ppm		08/03/2001	ASC
		NO2NO3 - Reading 5	0.32	ppm	08/16/2001	08/16/2001	ASC
		NO2NO3 - Reading 6	0.34	ppm	08/30/2001	08/30/2001	ASC
		NO2NO3 - Reading 7	0.41	ppm		08/30/2001	ASC
		NO2NO3 - Reading 8	0.44	ppm		08/30/2001	ASC
		NO2NO3 - Reading 9	0.40	ppm	09/13/2001	09/13/2001	ASC
		NO2NO3 - Final	0.44	ppm	09/21/2001	09/21/2001	SBW
		Non-Filtered BOD 60 - Reading 1	0.9	ppm	07/19/2001	07/20/2001	SBW
		Non-Filtered BOD 60 - Reading 2	2.5	ppm		07/23/2001	SBW
		Non-Filtered BOD 60 - Reading 3	3.2	ppm		07/25/2001	SBW
		Non-Filtered BOD 60 - Reading 4	5.2	ppm		07/30/2001	SBW
		Non-Filtered BOD 60 - Reading 5	5.9	ppm		08/03/2001	SBW
		Non-Filtered BOD 60 - Reading 6	6.5	ppm		08/08/2001	SBW
		Non-Filtered BOD 60 - Reading 7	7.3	ppm		08/17/2001	SBW
		Non-Filtered BOD 60 - Reading 8	8.0	ppm		08/28/2001	SBW
		Non-Filtered BOD 60 - Reading 9	8.5	ppm		09/07/2001	SBW
		Non-Filtered BOD 60 - Final	9.0	ppm		09/17/2001	SBW
OR14A	AD16513	TSS	56.0	ppm	07/24/2001	07/26/2001	DMR
		TDS	185	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	79.1	ppm	07/24/2001	07/24/2001	BSF
		Turbidity	50	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	274	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	60	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	28.8	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	11.7	ppm		07/26/2001	CLJ
OR14B	AD16514	Sodium	32.7	ppm	08/27/2001	08/27/2001	CHR
OR14C	AD16515	Hardness	53.2	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	0.22	ppm	08/02/2001	08/02/2001	ASC
		TP	0.94	ppm	08/06/2001	08/06/2001	ASC
		TKN	2.81	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	1.12	ppm		08/06/2001	NVA
OR14TOC	AD16516	TOC	17.7	ppm	07/27/2001	07/28/2001	MSR
OR14OP	AD16517	Orthophosphate	0.57	ppm	07/19/2001	07/19/2001	DBH

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OR14UBOD	AD16518	pH, Ultimate BOD survey	7.27	pH units	09/17/2001	09/17/2001	SBW
		TOC (60 Day BOD)	11.2	ppm	09/19/2001	09/20/2001	MSR
		TKN (60 Day BOD)	0.96	ppm	09/24/2001	09/24/2001	ASC
		NO2NO3 - Initial Reading	0.22	ppm	07/20/2001	07/20/2001	DBH
		NO2NO3 - Reading 1	0.23	ppm	08/02/2001	08/02/2001	ASC
		NO2NO3 - Reading 2	0.28	ppm	08/03/2001	08/03/2001	ASC
		NO2NO3 - Reading 3	0.886	ppm		08/03/2001	ASC
		NO2NO3 - Reading 4	1.71	ppm		08/03/2001	ASC
		NO2NO3 - Reading 5	1.93	ppm	08/16/2001	08/16/2001	ASC
		NO2NO3 - Reading 6	1.88	ppm	08/30/2001	08/30/2001	ASC
		NO2NO3 - Reading 7	2.12	ppm		08/30/2001	ASC
		NO2NO3 - Reading 8	2.30	ppm		08/30/2001	ASC
		NO2NO3 - Reading 9	2.29	ppm	09/13/2001	09/13/2001	ASC
		NO2NO3 - Final	2.22	ppm	09/21/2001	09/21/2001	SBW
		Non-Filtered BOD 60 - Reading 1	1.2	ppm	07/19/2001	07/20/2001	SBW
		Non-Filtered BOD 60 - Reading 2	5.1	ppm		07/23/2001	SBW
		Non-Filtered BOD 60 - Reading 3	9.3	ppm		07/25/2001	SBW
		Non-Filtered BOD 60 - Reading 4	16.1	ppm		07/30/2001	SBW
		Non-Filtered BOD 60 - Reading 5	18.4	ppm		08/03/2001	SBW
		Non-Filtered BOD 60 - Reading 6	21.0	ppm		08/08/2001	SBW
		Non-Filtered BOD 60 - Reading 7	24.4	ppm		08/17/2001	SBW
		Non-Filtered BOD 60 - Reading 8	26.7	ppm		08/28/2001	SBW
		Non-Filtered BOD 60 - Reading 9	28.3	ppm		09/07/2001	SBW
		Non-Filtered BOD 60 - Final	29.5	ppm		09/17/2001	SBW
OR15ABLK	AD16524	TSS	ND	ppm	07/24/2001	07/26/2001	DMR
		TDS	ND	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	ND	ppm	07/24/2001	07/24/2001	BSF
		Turbidity	ND	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	ND	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	ND	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	8.8	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	ND	ppm		07/26/2001	CLJ
OR15BBLK	AD16525	Sodium	ND	ppm	08/27/2001	08/27/2001	CHR
OR15CBLK	AD16526	Hardness	ND	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	0.02	ppm	08/02/2001	08/02/2001	ASC
		TP	ND	ppm	08/06/2001	08/06/2001	ASC
		TKN	ND	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA
OR15TOCB	AD16527	TOC	ND	ppm	07/27/2001	07/28/2001	MSR
OR15OPBL	AD16528	Orthophosphate	ND	ppm	07/19/2001	07/19/2001	DBH
OR15UBOB	AD16529	pH, Ultimate BOD survey	5.61	pH units	09/17/2001	09/17/2001	SBW
		TOC (60 Day BOD)	ND	ppm	09/19/2001	09/20/2001	MSR
		TKN (60 Day BOD)	ND	ppm	09/24/2001	09/24/2001	ASC
		NO2NO3 - Initial Reading	ND	ppm	07/20/2001	07/20/2001	DBH
		NO2NO3 - Reading 1	ND	ppm	08/02/2001	08/02/2001	ASC
		NO2NO3 - Reading 2	ND	ppm	08/03/2001	08/03/2001	ASC
		NO2NO3 - Reading 3	ND	ppm		08/03/2001	ASC

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OR15UBOB	AD16529	NO2NO3 - Reading 4	ND	ppm	08/03/2001	08/03/2001	ASC
		NO2NO3 - Reading 5	ND	ppm	08/16/2001	08/16/2001	ASC
		NO2NO3 - Reading 6	ND	ppm	08/30/2001	08/30/2001	ASC
		NO2NO3 - Reading 7	ND	ppm		08/30/2001	ASC
		NO2NO3 - Reading 8	ND	ppm		08/30/2001	ASC
		NO2NO3 - Reading 9	ND	ppm	09/13/2001	09/13/2001	ASC
		NO2NO3 - Final	ND	ppm	09/21/2001	09/21/2001	SBW
		Non-Filtered BOD 60 - Reading 1	0.1	ppm	07/19/2001	07/20/2001	SBW
		Non-Filtered BOD 60 - Reading 2	0.1	ppm		07/23/2001	SBW
		Non-Filtered BOD 60 - Reading 3	0.2	ppm		07/25/2001	SBW
		Non-Filtered BOD 60 - Reading 4	0.3	ppm		07/30/2001	SBW
		Non-Filtered BOD 60 - Reading 5	0.3	ppm		08/03/2001	SBW
		Non-Filtered BOD 60 - Reading 6	0.3	ppm		08/08/2001	SBW
		Non-Filtered BOD 60 - Reading 7	0.3	ppm		08/17/2001	SBW
		Non-Filtered BOD 60 - Reading 8	0.3	ppm		08/28/2001	SBW
		Non-Filtered BOD 60 - Reading 9	0.4	ppm		09/07/2001	SBW
		Non-Filtered BOD 60 - Final	0.4	ppm		09/17/2001	SBW
OR15A	AD16530	TSS	6.5	ppm	07/24/2001	07/26/2001	DMR
		TDS	60.7	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	16.7	ppm	07/24/2001	07/24/2001	BSF
		Turbidity	6.3	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	61.6	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	65	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	4.7	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	ND	ppm		07/26/2001	CLJ
OR15B	AD16531	Sodium	5.0	ppm	08/27/2001	08/27/2001	CHR
OR15C	AD16532	Hardness	16.9	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	ND	ppm	07/26/2001	07/26/2001	ASC
		TP	0.06	ppm	08/06/2001	08/06/2001	ASC
		TKN	0.75	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA
OR15TOC	AD16533	TOC	13.8	ppm	07/27/2001	07/28/2001	MSR
OR15OP	AD16534	Orthophosphate	ND	ppm	07/19/2001	07/19/2001	DBH
OR15UBOD	AD16535	pH, Ultimate BOD survey	6.73	pH units	09/17/2001	09/17/2001	SBW
		TOC (60 Day BOD)	9.4	ppm	09/19/2001	09/20/2001	MSR
		TKN (60 Day BOD)	0.51	ppm	09/24/2001	09/24/2001	ASC
		NO2NO3 - Initial Reading	ND	ppm	07/20/2001	07/20/2001	DBH
		NO2NO3 - Reading 1	ND	ppm	08/02/2001	08/02/2001	ASC
		NO2NO3 - Reading 2	ND	ppm	08/03/2001	08/03/2001	ASC
		NO2NO3 - Reading 3	ND	ppm		08/03/2001	ASC
		NO2NO3 - Reading 4	ND	ppm		08/03/2001	ASC
		NO2NO3 - Reading 5	0.05	ppm	08/16/2001	08/16/2001	ASC
		NO2NO3 - Reading 6	0.22	ppm	08/30/2001	08/30/2001	ASC
		NO2NO3 - Reading 7	0.27	ppm		08/30/2001	ASC
		NO2NO3 - Reading 8	0.32	ppm		08/30/2001	ASC
		NO2NO3 - Reading 9	0.25	ppm	09/13/2001	09/13/2001	ASC
		NO2NO3 - Final	0.32	ppm	09/21/2001	09/21/2001	SBW

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OR15UBOD	AD16535	Non-Filtered BOD 60 - Reading 1	0.7	ppm	07/19/2001	07/20/2001	SBW
		Non-Filtered BOD 60 - Reading 2	2.3	ppm		07/23/2001	SBW
		Non-Filtered BOD 60 - Reading 3	3.0	ppm		07/25/2001	SBW
		Non-Filtered BOD 60 - Reading 4	4.3	ppm		07/30/2001	SBW
		Non-Filtered BOD 60 - Reading 5	5.2	ppm		08/03/2001	SBW
		Non-Filtered BOD 60 - Reading 6	6.9	ppm		08/08/2001	SBW
		Non-Filtered BOD 60 - Reading 7	8.3	ppm		08/17/2001	SBW
		Non-Filtered BOD 60 - Reading 8	9.8	ppm		08/28/2001	SBW
		Non-Filtered BOD 60 - Reading 9	10.9	ppm		09/07/2001	SBW
		Non-Filtered BOD 60 - Final	11.7	ppm		09/17/2001	SBW
OR15ADUP	AD16536	TSS	5.0	ppm	07/24/2001	07/26/2001	DMR
		TDS	58.7	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	17.0	ppm	07/24/2001	07/24/2001	BSF
		Turbidity	6.4	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	61.1	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	65	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	4.8	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	1.8	ppm		07/26/2001	CLJ
OR15BDUP	AD16537	Sodium	5.1	ppm	08/27/2001	08/27/2001	CHR
OR15CDUP	AD16538	Hardness	16.7	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	ND	ppm	07/26/2001	07/26/2001	ASC
		TP	0.06	ppm	08/06/2001	08/06/2001	ASC
		TKN	0.74	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm		08/06/2001	NVA
OR15TOCD	AD16539	TOC	14.9	ppm	07/27/2001	07/28/2001	MSR
OR15UBDD	AD16540	pH, Ultimate BOD survey	6.79	pH units	09/17/2001	09/17/2001	SBW
		TOC (60 Day BOD)	9.7	ppm	09/19/2001	09/20/2001	MSR
		TKN (60 Day BOD)	0.55	ppm	09/24/2001	09/24/2001	ASC
		NO2NO3 - Initial Reading	0.12	ppm	07/20/2001	07/20/2001	DBH
		NO2NO3 - Reading 1	ND	ppm	08/02/2001	08/02/2001	ASC
		NO2NO3 - Reading 2	ND	ppm	08/03/2001	08/03/2001	ASC
		NO2NO3 - Reading 3	ND	ppm		08/03/2001	ASC
		NO2NO3 - Reading 4	ND	ppm		08/03/2001	ASC
		NO2NO3 - Reading 5	ND	ppm	08/16/2001	08/16/2001	ASC
		NO2NO3 - Reading 6	0.21	ppm	08/30/2001	08/30/2001	ASC
		NO2NO3 - Reading 7	0.29	ppm		08/30/2001	ASC
		NO2NO3 - Reading 8	0.31	ppm	08/31/2001	08/31/2001	ASC
		NO2NO3 - Reading 9	0.29	ppm	09/13/2001	09/13/2001	ASC
		NO2NO3 - Final	0.33	ppm	09/21/2001	09/21/2001	SBW
		Non-Filtered BOD 60 - Reading 1	0.8	ppm	07/19/2001	07/20/2001	SBW
		Non-Filtered BOD 60 - Reading 2	2.5	ppm		07/23/2001	SBW
		Non-Filtered BOD 60 - Reading 3	3.2	ppm		07/25/2001	SBW
		Non-Filtered BOD 60 - Reading 4	4.6	ppm		07/30/2001	SBW
		Non-Filtered BOD 60 - Reading 5	5.5	ppm		08/03/2001	SBW
		Non-Filtered BOD 60 - Reading 6	7.3	ppm		08/08/2001	SBW
		Non-Filtered BOD 60 - Reading 7	8.7	ppm		08/17/2001	SBW
		Non-Filtered BOD 60 - Reading 8	10.2	ppm		08/28/2001	SBW

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OR15UBDD	AD16540	Non-Filtered BOD 60 - Reading 9	11.1	ppm	07/19/2001	09/07/2001	SBW
		Non-Filtered BOD 60 - Final	11.7	ppm		09/17/2001	SBW
OR17A	AD16541	TSS	7.3	ppm	07/24/2001	07/26/2001	DMR
		TDS	528	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	95.4	ppm	07/24/2001	07/24/2001	BSF
		Turbidity	5.5	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	802	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	14	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	100	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	124	ppm		07/26/2001	CLJ
OR17B	AD16542	Sodium	140	ppm	08/27/2001	08/27/2001	CHR
OR17C	AD16543	Hardness	57.0	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	6.36	ppm	08/15/2001	08/15/2001	ASC
		TP	1.24	ppm	08/06/2001	08/06/2001	ASC
		TKN	2.17	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	0.34	ppm	08/07/2001	08/07/2001	NVA
OR17TOC	AD16544	TOC	15.8	ppm	07/27/2001	07/28/2001	MSR
OR17OP	AD16545	Orthophosphate	0.29	ppm	07/19/2001	07/19/2001	DBH
OR17UBOD	AD16546	pH, Ultimate BOD survey	7.56	pH units	09/17/2001	09/17/2001	SBW
		TOC (60 Day BOD)	8.7	ppm	09/19/2001	09/20/2001	MSR
		TKN (60 Day BOD)	1.67	ppm	09/24/2001	09/24/2001	ASC
		NO2NO3 - Initial Reading	5.77	ppm	08/23/2001	08/23/2001	ASC
		NO2NO3 - Reading 1	5.41	ppm		08/23/2001	ASC
		NO2NO3 - Reading 2	4.23	ppm		08/23/2001	ASC
		NO2NO3 - Reading 3	7.29	ppm		08/23/2001	ASC
		NO2NO3 - Reading 4	6.32	ppm		08/23/2001	ASC
		NO2NO3 - Reading 5	5.95	ppm		08/23/2001	ASC
		NO2NO3 - Reading 6	6.57	ppm	08/30/2001	08/30/2001	ASC
		NO2NO3 - Reading 7	7.07	ppm		08/30/2001	ASC
		NO2NO3 - Reading 8	7.61	ppm	08/31/2001	08/31/2001	ASC
		NO2NO3 - Reading 9	9.16	ppm	09/13/2001	09/13/2001	ASC
		NO2NO3 - Final	8.37	ppm	09/21/2001	09/21/2001	SBW
		Non-Filtered BOD 60 - Reading 1	0.8	ppm	07/19/2001	07/20/2001	SBW
		Non-Filtered BOD 60 - Reading 2	5.1	ppm		07/23/2001	SBW
		Non-Filtered BOD 60 - Reading 3	7.7	ppm		07/25/2001	SBW
		Non-Filtered BOD 60 - Reading 4	13.0	ppm		07/30/2001	SBW
		Non-Filtered BOD 60 - Reading 5	15.3	ppm		08/03/2001	SBW
		Non-Filtered BOD 60 - Reading 6	18.7	ppm		08/08/2001	SBW
		Non-Filtered BOD 60 - Reading 7	26.2	ppm		08/17/2001	SBW
		Non-Filtered BOD 60 - Reading 8	32.6	ppm		08/28/2001	SBW
		Non-Filtered BOD 60 - Reading 9	35.5	ppm		09/07/2001	SBW
		Non-Filtered BOD 60 - Final	37.3	ppm		09/17/2001	SBW
OR18ABLK	AD16547	TSS	ND	ppm	07/24/2001	07/26/2001	DMR
		TDS	ND	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	ND	ppm	07/24/2001	07/24/2001	BSF
		Turbidity	ND	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	ND	umhos/cm	07/24/2001	07/24/2001	NVA

Site:	Lab ID:	Analysis	Resul		Date Started:	Date Read:	Analyst:
OR18ABLK	AD16547	True Color	ND	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	8.8	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	ND	ppm		07/26/2001	CLJ
OR18BBLK	AD16548	Sodium	1.1	ppm	08/27/2001	08/27/2001	CHR
OR18CBLK	AD16549	Hardness	ND	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	ND	ppm	07/26/2001	07/26/2001	ASC
		TP	ND	ppm	08/06/2001	08/06/2001	ASC
		TKN	ND	ppm		08/06/2001	ASC
		Ammonia-Nitrogen	ND	ppm	08/07/2001	08/07/2001	NVA
OR18TOCB	AD16550	TOC	ND	ppm	07/27/2001	07/28/2001	MSR
OR18OPBL	AD16551	Orthophosphate	ND	ppm	07/19/2001	07/19/2001	DBH
OR18UBOB	AD16552	pH, Ultimate BOD survey	6.23	pH units	09/17/2001	09/17/2001	SBW
		TOC (60 Day BOD)	ND	ppm	09/19/2001	09/20/2001	MSR
		TKN (60 Day BOD)	ND	ppm	09/24/2001	09/24/2001	ASC
		NO2NO3 - Initial Reading	ND	ppm	07/20/2001	07/20/2001	DBH
		NO2NO3 - Reading 1	ND	ppm	08/02/2001	08/02/2001	ASC
		NO2NO3 - Reading 2	ND	ppm	08/03/2001	08/03/2001	ASC
		NO2NO3 - Reading 3	ND	ppm		08/03/2001	ASC
		NO2NO3 - Reading 4	ND	ppm		08/03/2001	ASC
		NO2NO3 - Reading 5	ND	ppm	08/16/2001	08/16/2001	ASC
		NO2NO3 - Reading 6	ND	ppm	08/30/2001	08/30/2001	ASC
		NO2NO3 - Reading 7	ND	ppm		08/30/2001	ASC
		NO2NO3 - Reading 8	ND	ppm	08/31/2001	08/31/2001	ASC
		NO2NO3 - Reading 9	ND	ppm	09/13/2001	09/13/2001	ASC
		NO2NO3 - Final	ND	ppm	09/21/2001	09/21/2001	SBW
		Non-Filtered BOD 60 - Reading 1	0.1	ppm	07/19/2001	07/20/2001	SBW
		Non-Filtered BOD 60 - Reading 2	0.1	ppm		07/23/2001	SBW
		Non-Filtered BOD 60 - Reading 3	0.1	ppm		07/25/2001	SBW
		Non-Filtered BOD 60 - Reading 4	0.2	ppm		07/30/2001	SBW
		Non-Filtered BOD 60 - Reading 5	0.2	ppm		08/03/2001	SBW
		Non-Filtered BOD 60 - Reading 6	0.2	ppm		08/08/2001	SBW
		Non-Filtered BOD 60 - Reading 7	0.2	ppm		08/17/2001	SBW
		Non-Filtered BOD 60 - Reading 8	0.3	ppm		08/28/2001	SBW
		Non-Filtered BOD 60 - Reading 9	0.4	ppm		09/07/2001	SBW
		Non-Filtered BOD 60 - Final	0.4	ppm		09/17/2001	SBW
OR18A	AD16553	TSS	ND	ppm	07/25/2001	07/30/2001	DMR
		TDS	1914	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	243	ppm	07/24/2001	07/24/2001	BSF
		Turbidity	2.3	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	2854	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	48	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	130	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	1018	ppm	08/08/2001	08/08/2001	CLJ
OR18B	AD16554	Sodium	640	ppm	08/27/2001	08/27/2001	CHR
OR18C	AD16555	Hardness	39.2	ppm	08/16/2001	08/16/2001	BSF
		Nitrate+Nitrite Nitrogen	34.33	ppm	08/15/2001	08/15/2001	ASC
		TP	0.34	ppm	08/07/2001	08/07/2001	ASC

Site:	Lab ID:	Analysis	Resul		Date Started:	Date Read:	Analyst:
OR18C	AD16555	TKN	8.63	ppm	08/07/2001	08/07/2001	ASC
		Ammonia-Nitrogen	0.31	ppm		08/07/2001	NVA
OR18TOC	AD16556	TOC	63	ppm	07/30/2001	07/31/2001	MSR
OR18OP	AD16557	Orthophosphate	ND	ppm	07/19/2001	07/19/2001	DBH
OR18UBOD	AD16558	pH, Ultimate BOD survey	7.66	pH units	09/17/2001	09/17/2001	SBW
		TOC (60 Day BOD)	46.6	ppm	09/19/2001	09/20/2001	MSR
		TKN (60 Day BOD)	2.74	ppm	09/24/2001	09/24/2001	ASC
		NO2NO3 - Initial Reading	21.6	ppm	08/23/2001	08/23/2001	ASC
		NO2NO3 - Reading 1	26.7	ppm		08/23/2001	ASC
		NO2NO3 - Reading 2	21.2	ppm		08/23/2001	ASC
		NO2NO3 - Reading 3	26.9	ppm		08/23/2001	ASC
		NO2NO3 - Reading 4	25.2	ppm		08/23/2001	ASC
		NO2NO3 - Reading 5	NR	ppm	10/03/2001	10/03/2001	ASC
		NO2NO3 - Reading 6	36.4	ppm	08/31/2001	08/31/2001	ASC
		NO2NO3 - Reading 7	37.4	ppm	08/30/2001	08/30/2001	ASC
		NO2NO3 - Reading 8	32.1	ppm	08/31/2001	08/31/2001	ASC
		NO2NO3 - Reading 9	33.7	ppm	09/13/2001	09/13/2001	ASC
		NO2NO3 - Final	38.1	ppm	09/21/2001	09/21/2001	SBW
		Non-Filtered BOD 60 - Reading 1	0.5	ppm	07/19/2001	07/20/2001	SBW
		Non-Filtered BOD 60 - Reading 2	1.5	ppm		07/23/2001	SBW
		Non-Filtered BOD 60 - Reading 3	2.7	ppm		07/25/2001	SBW
		Non-Filtered BOD 60 - Reading 4	7.6	ppm		07/30/2001	SBW
		Non-Filtered BOD 60 - Reading 5	11.3	ppm		08/03/2001	SBW
		Non-Filtered BOD 60 - Reading 6	17.5	ppm		08/08/2001	SBW
		Non-Filtered BOD 60 - Reading 7	25.5	ppm		08/17/2001	SBW
		Non-Filtered BOD 60 - Reading 8	33.4	ppm		08/28/2001	SBW
		Non-Filtered BOD 60 - Reading 9	41.1	ppm		09/07/2001	SBW
		Non-Filtered BOD 60 - Final	46.6	ppm		09/17/2001	SBW
OR19A	AD16559	TSS	49.6	ppm	07/25/2001	07/30/2001	DMR
		TDS	304	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	26.1	ppm	07/24/2001	07/24/2001	BSF
		Turbidity	18	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	458	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	120	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	40.6	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	111.4	ppm		07/26/2001	CLJ
OR19B	AD16560	Sodium	79.5	ppm	08/27/2001	08/27/2001	CHR
OR19C	AD16561	Hardness	34.6	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	0.58	ppm	07/26/2001	07/26/2001	ASC
		TP	0.39	ppm	08/13/2001	08/13/2001	ASC
		TKN	1.16	ppm		08/13/2001	ASC
		Ammonia-Nitrogen	0.40	ppm	08/07/2001	08/07/2001	NVA
OR19TOC	AD16562	TOC	12.3	ppm	07/27/2001	07/28/2001	MSR
OR19OP	AD16563	Orthophosphate	0.15	ppm	07/19/2001	07/19/2001	DBH
OR19UBOD	AD16564	pH, Ultimate BOD survey	7.09	pH units	09/17/2001	09/17/2001	SBW
		TOC (60 Day BOD)	7.2	ppm	09/19/2001	09/20/2001	MSR
		TKN (60 Day BOD)	ND	ppm	09/24/2001	09/24/2001	ASC

Site:	Lab ID:	Analysis	Resul		Date Started:	Date Read:	Analyst:
OR19UBOD	AD16564	NO2NO3 - Initial Reading	0.78	ppm	07/20/2001	07/20/2001	DBH
		NO2NO3 - Reading 1	0.71	ppm	08/02/2001	08/02/2001	ASC
		NO2NO3 - Reading 2	0.70	ppm	08/03/2001	08/03/2001	ASC
		NO2NO3 - Reading 3	0.82	ppm		08/03/2001	ASC
		NO2NO3 - Reading 4	1.13	ppm		08/03/2001	ASC
		NO2NO3 - Reading 5	1.31	ppm	08/16/2001	08/16/2001	ASC
		NO2NO3 - Reading 6	1.40	ppm	08/30/2001	08/30/2001	ASC
		NO2NO3 - Reading 7	1.51	ppm		08/30/2001	ASC
		NO2NO3 - Reading 8	1.37	ppm	08/31/2001	08/31/2001	ASC
		NO2NO3 - Reading 9	1.57	ppm	09/13/2001	09/13/2001	ASC
		NO2NO3 - Final	1.60	ppm	09/21/2001	09/21/2001	SBW
		Non-Filtered BOD 60 - Reading 1	1.0	ppm	07/19/2001	07/20/2001	SBW
		Non-Filtered BOD 60 - Reading 2	3.2	ppm		07/23/2001	SBW
		Non-Filtered BOD 60 - Reading 3	4.7	ppm		07/25/2001	SBW
		Non-Filtered BOD 60 - Reading 4	8.3	ppm		07/30/2001	SBW
		Non-Filtered BOD 60 - Reading 5	9.5	ppm		08/03/2001	SBW
		Non-Filtered BOD 60 - Reading 6	10.7	ppm		08/08/2001	SBW
		Non-Filtered BOD 60 - Reading 7	12.0	ppm		08/17/2001	SBW
		Non-Filtered BOD 60 - Reading 8	13.2	ppm		08/28/2001	SBW
		Non-Filtered BOD 60 - Reading 9	14.1	ppm		09/07/2001	SBW
		Non-Filtered BOD 60 - Final	14.9	ppm		09/17/2001	SBW
OR21A	AD16565	TSS	40.0	ppm	07/25/2001	07/30/2001	DMR
		TDS	1277	ppm	07/19/2001	07/19/2001	NVA
		Alkalinity	399	ppm	07/24/2001	07/24/2001	BSF
		Turbidity	500	NTU	07/19/2001	07/19/2001	LIT
		Specific Conductance	1815	umhos/cm	07/24/2001	07/24/2001	NVA
		True Color	660	PCU	07/19/2001	07/19/2001	LIT
		Chloride, Ion Chromatograph	128	ppm	07/26/2001	07/26/2001	CLJ
		Sulfate	387	ppm	08/08/2001	08/08/2001	CLJ
OR21B	AD16566	Sodium	372	ppm	08/27/2001	08/27/2001	CHR
OR21C	AD16567	Hardness	131	ppm	08/03/2001	08/03/2001	BSF
		Nitrate+Nitrite Nitrogen	0.12	ppm	07/26/2001	07/26/2001	ASC
		TP	1.39	ppm	08/07/2001	08/07/2001	ASC
		TKN	4.48	ppm		08/07/2001	ASC
		Ammonia-Nitrogen	1.50	ppm		08/07/2001	NVA
OR21TOC	AD16568	TOC	103	ppm	07/30/2001	07/31/2001	MSR
OR21OP	AD16569	Orthophosphate	0.70	ppm	07/19/2001	07/19/2001	DBH
OR21UBOD	AD16570	pH, Ultimate BOD survey	7.26	pH units	09/17/2001	09/17/2001	SBW
		TOC (60 Day BOD)	69	ppm	09/19/2001	09/20/2001	MSR
		TKN (60 Day BOD)	ND	ppm	09/24/2001	09/24/2001	ASC
		NO2NO3 - Initial Reading	0.16	ppm	07/20/2001	07/20/2001	DBH
		NO2NO3 - Reading 1	0.08	ppm	08/02/2001	08/02/2001	ASC
		NO2NO3 - Reading 2	0.10	ppm	08/03/2001	08/03/2001	ASC
		NO2NO3 - Reading 3	0.16	ppm		08/03/2001	ASC
		NO2NO3 - Reading 4	0.21	ppm		08/03/2001	ASC
		NO2NO3 - Reading 5	0.52	ppm	08/16/2001	08/16/2001	ASC
		NO2NO3 - Reading 6	3.55	ppm	08/30/2001	08/30/2001	ASC

Site:	Lab ID:	Analysis	Resul		Date Started:	Date Read:	Analyst:
OR21UBOD	AD16570	NO2NO3 - Reading 7	3.88	ppm	08/30/2001	08/30/2001	ASC
		NO2NO3 - Reading 8	3.68	ppm	08/31/2001	08/31/2001	ASC
		NO2NO3 - Reading 9	4.58	ppm	09/13/2001	09/13/2001	ASC
		NO2NO3 - Final	4.29	ppm	09/21/2001	09/21/2001	SBW
		Non-Filtered BOD 60 - Reading 1	3.0	ppm	07/19/2001	07/20/2001	SBW
		Non-Filtered BOD 60 - Reading 2	19.0	ppm		07/23/2001	SBW
		Non-Filtered BOD 60 - Reading 3	28.3	ppm	07/26/2001	08/02/2001	SBW
		Non-Filtered BOD 60 - Reading 4	46.5	ppm	07/19/2001	07/30/2001	SBW
		Non-Filtered BOD 60 - Reading 5	65.8	ppm		08/03/2001	SBW
		Non-Filtered BOD 60 - Reading 6	78.5	ppm		08/08/2001	SBW
		Non-Filtered BOD 60 - Reading 7	88.5	ppm		08/17/2001	SBW
		Non-Filtered BOD 60 - Reading 8	96.9	ppm		08/28/2001	SBW
		Non-Filtered BOD 60 - Reading 9	102.7	ppm		09/07/2001	SBW
		Non-Filtered BOD 60 - Final	107.9	ppm		09/17/2001	SBW
OR1CH	AD16609	Chlorophyll A (calculated)	12.1	ug/L	08/09/2001	08/10/2001	CLP
		Chlorophyll A (raw)	302	ug/L		08/10/2001	CLP
		Volume of sample, Chlorophyll A (raw)	250	ml		08/10/2001	CLP
OR1CHDUP	AD16610	Chlorophyll A (calculated)	12.7	ug/L		08/10/2001	CLP
		Chlorophyll A (raw)	318	ug/L		08/10/2001	CLP
		Volume of sample, Chlorophyll A (raw)	250	ml		08/10/2001	CLP
OR2CH	AD16611	Chlorophyll A (calculated)	9.2	ug/L		08/10/2001	CLP
		Chlorophyll A (raw)	231	ug/L		08/10/2001	CLP
		Volume of sample, Chlorophyll A (raw)	250	ml		08/10/2001	CLP
OR2CHDUP	AD16612	Chlorophyll A (calculated)	9.5	ug/L		08/10/2001	CLP
		Chlorophyll A (raw)	238	ug/L		08/10/2001	CLP
		Volume of sample, Chlorophyll A (raw)	250	ml		08/10/2001	CLP
OR3CH	AD16613	Chlorophyll A (calculated)	10.6	ug/L		08/10/2001	CLP
		Chlorophyll A (raw)	266	ug/L		08/10/2001	CLP
		Volume of sample, Chlorophyll A (raw)	250	ml		08/10/2001	CLP
OR4CH	AD16614	Chlorophyll A (calculated)	8.7	ug/L		08/10/2001	CLP
		Chlorophyll A (raw)	217	ug/L		08/10/2001	CLP
		Volume of sample, Chlorophyll A (raw)	250	ml		08/10/2001	CLP
OR5CH	AD16615	Chlorophyll A (calculated)	10.6	ug/L		08/10/2001	CLP
		Chlorophyll A (raw)	264	ug/L		08/10/2001	CLP
		Volume of sample, Chlorophyll A (raw)	250	ml		08/10/2001	CLP
OR6CH	AD16616	Chlorophyll A (calculated)	18.2	ug/L		08/10/2001	CLP
		Chlorophyll A (raw)	456	ug/L		08/10/2001	CLP
		Volume of sample, Chlorophyll A (raw)	250	ml		08/10/2001	CLP
OR6CHDUP	AD16617	Chlorophyll A (calculated)	18.1	ug/L		08/10/2001	CLP
		Chlorophyll A (raw)	452	ug/L		08/10/2001	CLP
		Volume of sample, Chlorophyll A (raw)	250	ml		08/10/2001	CLP
OR9CH	AD16618	Chlorophyll A (calculated)	8.2	ug/L	08/10/2001	08/10/2001	CLP
		Chlorophyll A (raw)	204	ug/L		08/10/2001	CLP
		Volume of sample, Chlorophyll A (raw)	250	ml		08/10/2001	CLP
OR11CH	AD16619	Chlorophyll A (calculated)	15.7	ug/L		08/10/2001	CLP
		Chlorophyll A (raw)	188.2	ug/L		08/10/2001	CLP
		Volume of sample, Chlorophyll A	120	ml		08/10/2001	CLP

(raw)

Site:	Lab ID:	Analysis	Resul		Date Started:	Date Read:	Analyst:
OR14CH	AD16620	Chlorophyll A (calculated)	26.4	ug/L	08/10/2001	08/10/2001	CLP
		Chlorophyll A (raw)	264	ug/L		08/10/2001	CLP
		Volume of sample, Chlorophyll A (raw)	100	ml		08/10/2001	CLP
OR15CH	AD16622	Chlorophyll A (calculated)	12.0	ug/L		08/10/2001	CLP
		Chlorophyll A (raw)	180.2	ug/L		08/10/2001	CLP
		Volume of sample, Chlorophyll A (raw)	150	ml		08/10/2001	CLP
OR21CH	AD16623	Chlorophyll A (calculated)	12.2	ug/L		08/10/2001	CLP
		Chlorophyll A (raw)	243.2	ug/L		08/10/2001	CLP
		Volume of sample, Chlorophyll A (raw)	200	ml		08/10/2001	CLP

CLIMATE DATA

CLIMATE DATA FOR 7/18/01

LOSC CLIMATE DATA FOR 7/18/01

(Date/Time)						-- WIND ---				Accum	Rn	6 Hour	Obs	
YY	MM	DD	HH	Tem	Td	RH	Dir	Spd	Gst	SLP	Vis	Prcp	Cd	TMx TMn	Time
---	CST	---		F	F	%	deg	kt	kt	mb	mi	in		F F	(UTC)
SA	01	7	18	1	74	71	90	.	0	.	1016.7	8.0	0.00				06:53
								CLOUDS: CLR							
MS	01	7	18	2											
								CLOUDS:							
SA	01	7	18	3	73	71	93	.	0	.	1015.8	7.0	0.00				08:53
								CLOUDS: CLR							
SA	01	7	18	4	73	71	93	.	0	.	1016.2	6.0	0.00				09:53
								CLOUDS: SCT060							
SA	01	7	18	5	71	70	97	.	0	.	1016.6	6.0	0.00				10:53
								CLOUDS: CLR							
SA	01	7	18	6	72	71	97	.	0	.	1016.8	3.0	0.00		75	70	11:53
								CLOUDS: CLR							
SA	01	7	18	7	76	73	90	.	0	.	1017.5	6.0	0.00				12:53
								CLOUDS: CLR							
SA	01	7	18	8	81	74	79	.	0	.	1017.7	6.0	0.00				13:53
								CLOUDS: CLR							
SA	01	7	18	9	86	76	72	230	4	.	1017.7	9.0	0.00				14:53
								CLOUDS: CLR							
SA	01	7	18	10	86	72	63	210	5	.	1017.5	10.0	0.00				15:53
								CLOUDS: BKN037 BKN046							
SA	01	7	18	11	89	72	57	.	0	.	1017.4	10.0	0.00				16:53
								CLOUDS: CLR							
SA	01	7	18	12	89	73	59	.	3	.	1016.9	10.0	0.00		91	72	17:53
								CLOUDS: SCT042							
SA	01	7	18	13	92	74	56	.	3	.	1016.5	10.0	0.00				18:53
								CLOUDS: FEW046 SCT060							
SA	01	7	18	14	92	72	52	.	3	.	1016.2	10.0	0.00				19:53
								CLOUDS: CLR							
SA	01	7	18	15	94	70	46	.	3	.	1015.3	10.0	0.00				20:53
								CLOUDS: CLR							
SA	01	7	18	16	93	70	47	200	6	.	1014.8	10.0	0.00				21:53
								CLOUDS: CLR							
SA	01	7	18	17	93	69	46	.	0	.	1014.7	10.0	0.00				22:53
								CLOUDS: CLR							
SA	01	7	18	18	91	70	50	.	0	.	1014.6	10.0	0.00		95	90	23:53
								CLOUDS: CLR							
SA	01	7	18	19	87	72	61	.	0	.	1014.8	9.0	0.00				00:53

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                                        CLOUDS: CLR
SA 01  7 18 20   82  75  79   .    0  .  1015.5   8.0    0.00             01:53
                                        CLOUDS: CLR
SA 01  7 18 21   82  72  72   .    3  .  1016.1  10.0    0.00             02:53
                                        CLOUDS: CLR
SA 01  7 18 22   79  72  79   .    0  .  1016.3   9.0    0.00             03:53
                                        CLOUDS: CLR
SA 01  7 18 23   76  72  87   .    0  .  1016.6   8.0    0.00             04:53
                                        CLOUDS: CLR
SA 01  7 18 24   75  72  90   .    0  .  1016.6   7.0    0.00      91  74 05:53
                                        CLOUDS: CLR
-------------------------------------------------------------------------------
 2001  7 18                      1.3  .                 0.00      95  70  (23)
```

LOSC DATA DESCRIPTIONS

DESCRIPTIONS OF HOURLY PRELIMINARY DATA AS REPORTED BY THE LOSC

The following hourly records are *preliminary observations* as available from the Southern Regional Climate Center (SRCC) data archives. These data are received by the SRCC/LOSC from NWS offices via satellite transmission and internet data delivery (IDD). Unfortunately, due to a wide array of technical considerations[1] some hourly observations are not received.

Most hourly records are preceded by the codes "SA" or "RS", indicating that the reports are standard hourly meteorological observations (occasionally no code will be included in the record). Missing hourly observations are coded with "MS' followed by blank fields in the hourly array.

At the end of each twenty-four hour array, a "DAILY SUMMARY" may be provided which includes the 24-hour rainfall total and the daily maximum and minimum temperatures (^{0}F). Daily values flagged with "E" indicate estimated values derived from the hourly observations. Daily rainfall totals coded with "R" indicate that this value was a *reported* 24-hour total; "M" indicates that the 24-hour rainfall total may be incomplete. Maximum and minimum daily temperatures without flags indicate that these were *reported* 24-hour temperatures. Note that daily data are also to be considered as "*preliminary*".

Precipitation data are reported only at three-hourly intervals for some stations (primarily FAA sites). Note that in some instances, hourly rainfall are not available.

In some instances, one or more meteorological variables are not reported or are missing from the hourly observational array. Missing or non-reported variables are coded " . ". An exception includes winds reported as *calm*. In such instances, wind direction is coded " . " and the windspeed is "0". Wind gusts generally are reported only when they reach or exceed 15 knots (17 mph).

If you have any additional questions regarding the interpretations of these data tables, please contact the LOSC.

John M. Grymes III
State Climatologist

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Hourly Data Header Definitions

YY MM DD HR (CST) - time of observation in Central Standard Time
Tem (^{0}F) - *air* temperature in fahrenheit (^{o}F)
Td (^{0}F) - dewpoint temperature (^{o}F)
RH (%) - relative humidity in percent
Dir (deg) - wind direction (in tens of degrees)
Spd (kt) - wind speed in knots (1 knot = 1.15 mph)
Gst (kt) - wind gusts in knots (minimum reported gust is normally 14-15 knots)
SLP (mb) - Station pressure adjusted to sea-level in millibars (1 mb = 0.03 in. Hg)
Vis (mi) - horizontal visibility in miles
Weathr - reported weather conditions or properties
Accum Prcp (in) - three-hour accumulated precipitation in inches
Rn Cd - precipitation codes: "T", "M", "B" and "R" (DAILY SUMMARY ONLY)
TMx (F) - maximum temperature (^{o}F) recorded during last six hours (at 1800 CST) and last twelve hours (2400 CST)
TMn (F) - minimum temperature (^{o}F) recorded during last six hours (at 0600 CST) and last twelve hours (1200 CST)
Obs Time (T.JTC) - actual time of observation in Universal Time (UTC, GMT or Z) (CST = UTC - 6 hours)

Rainfall Codes:

T - "trace" of rain (coded as 0.00 inches)
E - estimated 3-hourly total
xA - accumulated total over 'x' hours
M - missing observation

Daily Summary Codes:

E - estimated daily max/mm temperature
R - reported daily total, not estimated
T - daily total of a "trace"

Abbreviations and Acronyms for Hourly Meteorological Reports

"+" heavy; "-" light

ACC: altocumulus castellanus clouds
ACFT: aircraft
ACLD: above clouds
ACSL: altocumulus, standing lensicular clouds
ACTV: active
AFDK: after dark
AGL: above ground level
ALF: aloft
ALQDS: all quadrants
ALP: airport location point
AMD; amended
AMOS: automated meteorological observing station
AMS: air mass
Aol: automated station wlo precip discriminator
A02: automated station wIth precip discriminator (ASOS)
AO2A: manually augmented ASOS
APCH: approach
APRNT: apparent
APRX: approximately
ARND: around
ASL: above sea level
ASOS: automated surface observing station
ATCT: airport control tower
AUTO: fully automated report
AWOS: automated weather observing station

B: began; preceeded by event, followed by rime in minutes after the hour
BC: patches
BFDK: before dark
BINOVC: breaks in overcast
BKN: broken
EL: blowing
BLZD: blizzard
BR: mist
BRF: brief
BRKHIC: breaks in higher overcast
ERKS: breaks
ETN: between
DTR: better
BYD: beyond

C: ceiling or center of runway
CAT: clear air turbulence
CAVOK: ceiling and visibility OK
CD: cumulonimbus clouds
CBMAM: cumulonimbus mamma clouds
CCCL; cirrocumulus, standing knticular clouds
CHC: chance
CIII: cloud height indicator
CIG: ceiling
CLDS: clouds
CLR: clear
CONS: continuous
CONT: continue
COR: correction to a previous observation
CSDRBL: considerable
CTY: city
CLI: cumulus clouds
CUFRA: fracto cumulus clouds
CVR: cover

DCR: decrease
DMLY: dimly
DMSH: diminish
DNS: dense
DR: low drifting
DRFTG SNOW: drifting snow
DRZL: drizzle
DS: duscstorm
DSIPTD: dissipated
DSNT: distant
DLI: widespread dust
DVLP: develop
DZ: drizzlc

E: ended; preceeded by event, followed by time in minutes after the hour; also can mean east or estimated ceiling height
EMBDD: embedded
EXTRM: extreme
EXTSV: extensive

FAA: Federal Aviation Administration
FACLI: factory generated cumulus
FC: funnel cloud
FCST: forecast
FEW: *few*
FG: fog
FLRY: flurry
FQT: frequent
FROPA: frontal passage
FROSFC: frontal surface
FT: feet

G: gust
GNIT: Greenwich Mean Time (also Z or UTC)
GNDFG: ground fog
GNDL: gradual
GR: hail, graupel
GS: small hail and/or snow pellets

HGT: height
HIR: higher
HLSTO; hajlstones
HND: hundred
HURCN: humeane
HURR I: hurricane eye
HVY: heavy
HZ: haze

IC: ice crystals; in cloud lighting
JCG: icine
ICGIC: icing in clouds
ICGIP: icing in precipitation
IMDT: immediate
LNCR: increase
INDEF: indefinite
INTMT: intermitrant
INTSFY: intensify
INSOLD: isolated
IP: ice pellets (also PB or PL)

JTSTR: jet stream

KT: knot(s)

LAST: last observation at a part time station; at end of observation
LGT: light
LMT: limit
LGT: lightning
LST: Local Standard Time
LTGCA: lightning cloud to air
LTG CC: lightning cloud to cloud
LTGCG: lightning cloud to ground
LTGCW: lightning cloud to water
LTGIC: lightning in-cloud
LVL; level
LWR: lower
LYR: layer

CAVU: ceiling and visibibiliry unlimited

FU: smoke
FZ: freezing

M: missing; minus; less than
MDT: moderate
NIETAR: routine weather report provided at fixed intervals
MI: shallow
MLTLVL: melting level
MOYD: moved
MOVG: moving
MRTM: maritime
MSL.: mean sea level
NIT or MTNS: mountains
MXD: mixed

N: north
N/A: not applicable
NE: northeast
NM!: nautical miles
NMRS: numerous
-NO: a suffix added to indicate no report or not available
NW: northwest
NWS: National Weather Service

O: ovcr
over
ODSC: obscure
OCLN: occlusion
OCNL: occasional
OCNLY: occasionally
OCR: occur
OTLK: outlook
OTRW: otherwise
OVC: overcast
OVD or OVHD: overhead
OVR: over

P: indicates greater than the highest reportable value
PIlL: probable
PCPN: precipitation; followed by amount falling over last hour, only given when over one halt inch
PE: ice pellets (also IP or PL)
PK WND: peak wind; followed by direction, wind speed, and time after the hour
P0: sand/dust whirls
PL: ice pellets
PR: partial
PR IMP: pressure jump
PRES: pressure
PRESRR: pressure rising rapidly
PRESUNSTDY: pressure urtstcady
PRST: persist
PSBL: possiblc
PSG: passing
PTLY: partly
PVL: prevail
PY; spray

QUAD: quadrant

R: runway followed by runway numbcr
RA: rain
RADAT: freezing level data; followed by radiosonde data
RANIOS: remote AMOS
RDG: ridge
RESTR: restrict
RGD: ragged
RMN: rcmain
RPD: rapid
RTE: route
RUF: rough
RV: reportable value

RVR: Runway Visual Range
RY: runway

S: south; snow
SA: sand
SC: stratocumulus clouds
SCSL: stratocumulus, standing lenricular clouds
SCT: scattered
SCTR: sector
SE: southeast
SFC: surface
SG: snow grains
SH or SHWR: shower
SKC: sky clear
SLGT: slight
SLP: sea-level pressure
SMK: smoke
SNOINCR: snow depth increased in past hour; followed by amount in inches and often by amount in past 3 hours and total snow depth on ground
SN or SNW: snow
SP: snow pellets
SFTS: spots
STBL: stable
STG: strong
STN: station
SVR: severe
SW: snow shower; southwest

TCU: towering cumulus
THN: thin
TIL: until
TPG: topping
TS: thunderstorm
TSHWR: thundershower
TSTM: thunderstorm
TURBC: turbulence
TWD: toward
TWR: tower

U or UNKN: unknown
UP: unknown precipitation
UPSLP: upslope
UTC: Coordinated Univeral Time

V or VRBL: variable; conditions vary distance or time
VA: volcanic ash
VC: in thc vicinity
VR: runway visual range in hundreds of feet
VRY: very
VSB: visible
VSBY or VIS: visibility, sometimes preceded by number of miles
VV: vertical visibility

W: west
WDLY: widely
WEA: weather
WK: weak
WSHFT: wind shift; followed by Z time
WV: wave
WX: weather

Z: zulu; also UTC and GMT (Greenwich Mean Time)

PRESFR: pressure falling rapidly

SQ or SQLN: squall line
SS: sandstorm

MONROE WEATHER DATA FOR 1994 THROUGH 2001

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: January Year: 1994

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	54	39	47	1	43	87	18	0	0.36			5.0	2.5	186		1 2	24
2	50	39	45	-1	44	95	20	0	0.00			4.7	3.9	129		1 2 8	24
3	49	38	44	-2	38	84	21	0	0.23			12.1	11.4	326	22	1	24
4	45	29	37	-9	31	79	28	0	0.00 T			6.8	4.9	335			24
5	53	27	40	-6	34	77	25	0	0.00			9.3	9.1	170	24	1	24
6	75	48	62	16	56	80	3	0	0.00			10.4	9.9	179	27	1	22
7	66	29	48	2	39	81	17	0	0.09			11.1	9.6	352	24	1	24
8	46	25	36	-9	23	67	29	0	0.00			4.1	2.6	59			24
9	53	25	39	-6	27	66	26	0	0.00			5.7	5.5	126			24
10	62	35	49	4	36	65	16	0	0.00			8.9	8.4	127	24		22
11	51	44	48	3	45	89	17	0	0.29			6.3	4.1	67		1 2 8	24
12	50	46	48	3	45	92	17	0	0.00			5.9	5.3	8		1 2 8	23
13	58	44	51	6	42	78	14	0	0.00			7.7	6.1	313		1	24
14	60	32	46	1	35	68	19	0	0.00			6.6	3.3	15			24
15	37	27	32	-14	22	67	33	0	0.00			9.5	9.2	46			24
16	58	28	43	-3	33	71	22	0	0.42			9.1	7.6	132	20	1	24
17	61	29	45	-1	37	84	20	0	1.08			11.2	7.9	1	26	1 3	24
18	31	23	27	-19	17	66	38	0	0.00			10.8	10.1	44			22
19	37	21	29	-17	16	62	36	0	0.00			7.4	6.2	90			23
20	41	25	33	-13	26	69	32	0	0.00 T			7.5	6.8	55			24
21	44	30	37	-9	28	71	28	0	0.00			8.8	8.5	43			24
22	55	29	42	-4	30	68	23	0	0.00 T			1.5	0.9	46			24
23	64	43	54	8	38	63	11	0	0.01			3.3	2.9	147			24
24	66	47	57	11	44	64	8	0	0.00 T			5.8	5.6	160		8	24
25	69	56	63	16	60	91	2	0	0.29			7.0	6.2	173		1 3 8	22
26	70	59	65	18	62	91	0	0	0.31			8.2	7.0	147		1 3 8	24
27	68	54	61	14	62	94	4	0	2.32			9.9	3.2	168	25	1 3	24
28	54	40	47	0	32	67	18	0	0.00			9.3	8.7	317			24
29	47	37	42	-5	34	72	23	0	0.00			5.1	4.3	17			24
30	50	33	42	-5	32	70	23	0	0.00			7.1	6.3	28			24
31	48	31	40	-8	26	67	25	0	0.00			7.0	6.4	354			24
AG/TL	53.9	35.9	44.9		36.7	76	616	0	5.40			7.5					
NORM	56.0	35.9	46.0				597	7	5.46								
DFN	-2.1	+0.0	-1.1				+19	-7	-0.06								

Temperature Data

AVERAGE MONTHLY 44.9
DEPARTURE FROM NORMAL -1.1
HIGHEST 75 ON 6
LOWEST 21 ON 19
NUMBER OF DAYS WITH
MAX 32 OR BELOW 1

Precipitation Data

TOTAL FOR THE MONTH 5.40
DEPARTURE FROM NORMAL -0.06
GREATEST 24HR TOTAL 0.00
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 10
ò 0.10 INCH OR MORE PRECIP 8

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime

```
 MAX 90 OR ABOVE             0     ò 0.50 INCH OR MORE PRECIP  2      7 = blowing dust or sand: visibility 1/2 mile or less
 MIN 32 OR BELOW            15     ò 1.00 INCH OR MORE PRECIP  2      8 = smoke or haze
 MIN  0 OR BELOW             0                                        9 = blowing snow
HEATING DEGREE DAYS (BASE 65)                                        x = tornado
 TOTAL THIS MONTH          616
  DEPARTURE FROM NORMAL    +19    T -- trace                         obs -- number of hourly observations received
COOLING DEGREE DAYS (BASE 65)     M -- estimated;                          by the SRCC for that day
 TOTAL THIS MONTH            0         value may be less than
  DEPARTURE FROM NORMAL     -7         actual daily total            * -- values use Daily Normals calculated by SRCC
Preliminary Daily Summary:  SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month:        February      Year: 1994
```

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	45	25	35	-13	21	61	30	0	0.00			5.4	2.5	357			24
2	52	26	39	-9	23	61	26	0	0.00			4.5	2.5	271			24
3	56	28	42	-6	29	63	23	0	0.00			6.0	5.9	162			24
4	70	48	59	11	50	74	6	0	0.00	T		7.6	7.1	180		1 8	23
5	76	57	67	18	61	87	0	2	0.06			7.4	3.1	3		1 8	23
6	70	45	58	9	49	77	7	0	0.00			4.3	1.2	70		1 8	24
7	71	46	59	10	58	91	6	0	0.00	T		4.8	3.9	157		1 8	24
8	81	68	75	26	65	79	0	10	0.00	T		10.9	10.6	188	27	1 8	24
9	71	35	53	3	48	91	12	0	0.88			12.1	5.5	42	27	1 3 8	23
10	38	33	36	-14	33	92	29	0	1.42			13.0	11.8	21	24	1 3	22
11	44	32	38	-12	35	89	27	0	0.26			5.0	1.7	352		1	24
12	58	40	49	-1	46	92	16	0	0.02			8.0	4.7	167		1 2 8	24
13	53	34	44	-7	36	72	21	0	0.00			9.8	8.6	352	19	1 8	24
14	57	27	42	-9	32	69	23	0	0.00			3.7	3.1	139		1 8	24
15	54	40	47	-4	41	79	18	0	0.10			4.5	3.2	64		1	23
16	64	37	51	0	39	68	14	0	0.00			4.5	3.5	54		1	23
17	71	37	54	2	40	67	11	0	0.00			3.1	2.9	140		1	23
18	74	41	58	6	49	71	7	0	0.00			7.3	7.1	153			24
19	76	54	65	13	59	78	0	0	0.00			9.0	8.9	157	24	1	24
20	73	62	68	16	62	84	0	3	0.00	T		6.2	2.3	153		1	23
21	73	60	67	15	60	84	0	2	0.00			10.3	9.1	60		1	24
22	67	59	63	11	60	93	2	0	0.84			8.5	5.7	182		1	24
23	60	40	50	-3	43	74	15	0	0.00	T		10.4	9.4	310		1 2	23
24	54	31	43	-11	30	64	22	0	0.00			5.3	0.3	154			23
25	73	35	54	0	41	65	11	0	0.00			6.6	1.5	230	19		24
26	52	32	42	-12	23	53	23	0	0.00			12.3	11.6	39	22		24
27	52	32	42	-12	28	62	23	0	0.00			7.2	7.0	41			24
28	69	37	53	-2	36	56	12	0	0.00	T		4.0	3.0	127			24
AG/TL	62.6	40.8	51.7		42.8	75	384	17	3.58			7.2					
NORM	61.9	40.0	51.0				400	6	4.34								
DFN	+0.7	+0.8	+0.7				-16	+11	-0.76								

Temperature Data

AVERAGE MONTHLY	51.7
DEPARTURE FROM NORMAL	+0.7
HIGHEST 81 ON 8	
LOWEST 25 ON 1	
NUMBER OF DAYS WITH	
MAX 32 OR BELOW	0
MAX 90 OR ABOVE	0
MIN 32 OR BELOW	8
MIN 0 OR BELOW	0
HEATING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	384
DEPARTURE FROM NORMAL	-16
COOLING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	17
DEPARTURE FROM NORMAL	+11

Precipitation Data

TOTAL FOR THE MONTH	3.58
DEPARTURE FROM NORMAL	-0.76
GREATEST 24HR TOTAL	14.01
NUMBER OF DAYS WITH	
ò 0.01 INCH OR MORE PRECIP	7
ò 0.10 INCH OR MORE PRECIP	5
ò 0.50 INCH OR MORE PRECIP	3
ò 1.00 INCH OR MORE PRECIP	1

T -- trace
M -- estimated; value may be less than actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: March Year: 1994

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	56	50	53	-2	51	94	12	0	2.17			9.0	7.9	358		1 3	24
2	50	37	44	-11	42	87	21	0	0.06			10.2	10.1	332	24	1	22
3	65	34	50	-5	37	67	15	0	0.00			3.9	2.9	314		1	23
4	76	43	60	5	46	64	5	0	0.00			4.7	4.1	235			22
5	79	49	64	9	52	69	1	0	0.00			5.3	4.6	174		1	24
6	75	54	65	9	60	84	0	0	0.00	T		6.9	6.1	179		1 2 8	21
7	78	61	70	14	61	81	0	5	0.00			6.6	6.1	183	16	1 8	24
8	64	45	55	-2	52	94	10	0	0.13			9.4	8.4	49	22	1 8	24
9	45	38	42	-15	36	88	23	0	2.32			12.6	12.1	351	21	1 3	24
10	58	34	46	-11	32	63	19	0	0.00			6.0	5.6	326			24
11	64	35	50	-7	36	65	15	0	0.00			2.9	2.4	139			24
12	66	38	52	-6	41	68	13	0	0.00			3.3	2.8	133			24
13	73	47	60	2	47	65	5	0	0.00			5.2	4.9	311			24
14	76	47	62	4	44	58	3	0	0.00			5.2	4.1	248			24
15	81	51	66	8	54	65	0	1	0.00			6.0	2.4	262		8	24
16	65	44	55	-3	38	52	10	0	0.00			8.3	7.6	47			24
17	73	39	56	-3	39	56	9	0	0.00			7.7	7.2	165			24
18	82	54	68	9	57	75	0	3	0.00			5.8	2.8	197		1 8	23
19	80	56	68	9	62	80	0	3	0.00			6.3	5.5	180		1 8	24
20	82	65	74	15	62	72	0	9	0.00			9.8	9.5	188			24
21	75	51	63	3	58	73	2	0	0.00	T		8.5	2.9	301		8	22
22	78	41	60	0	43	60	5	0	0.00			4.1	2.6	117			24
23	84	57	71	11	62	74	0	6	0.00	T		7.2	6.7	176	19	1 8	24
24	81	57	69	9	66	84	0	4	0.02			9.3	2.1	299	29	1	24
25	68	50	59	-2	49	71	6	0	0.00			9.1	8.5	35			24
26	74	51	63	2	61	85	2	0	0.00	T		8.2	7.2	162	21	1 8	24
27	74	49	62	1	58	93	3	0	0.66			10.5	4.5	11	28	1 8	24

28	61	43	52	-9	39	64	13	0	0.00		10.7	10.0	324	20	1 8	23
29	67	36	52	-9	38	63	13	0	0.00		5.8	5.2	165	16		24
30	67	43	55	-7	42	64	10	0	0.00		7.6	3.8	331			24
31	64	36	50	-12	37	67	15	0	0.00		2.5	1.4	7		1	24
AG/TL	70.4	46.3	58.3		48.5	72	230	31	5.36		7.1					
NORM	69.7	47.1	58.4				233	28	5.53							
DFN	+0.7	-0.8	-0.1				-3	+3	-0.17							

Temperature Data

AVERAGE MONTHLY 58.3
DEPARTURE FROM NORMAL -0.1
HIGHEST 84 ON 23
LOWEST 34 ON 3
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 0
MIN 32 OR BELOW 0
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 230
DEPARTURE FROM NORMAL -3
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 31
DEPARTURE FROM NORMAL +3

Precipitation Data

TOTAL FOR THE MONTH 5.36
DEPARTURE FROM NORMAL -0.17
GREATEST 24HR TOTAL 0.00
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 6
ò 0.10 INCH OR MORE PRECIP 4
ò 0.50 INCH OR MORE PRECIP 3
ò 1.00 INCH OR MORE PRECIP 2

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: April Year: 1994

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)				
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	77	39	58	-4	41	62	7	0	0.00			4.7	3.9	185		1	23
2	79	45	62	-1	44	53	3	0	0.00			10.4	9.8	187			24
3	66	46	56	-7	53	78	9	0	0.00 T			9.5	3.1	279		1	24
4	74	40	57	-6	45	65	8	0	0.00			6.1	5.9	158	14		24
5	76	60	68	5	62	86	0	3	1.73			9.5	7.3	194	23	1 3 8	24
6	60	43	52	-12	43	80	13	0	0.00			9.8	8.8	322	23		24
7	61	36	49	-15	42	77	16	0	0.00			7.0	6.3	53		1 8	24
8	73	43	58	-6	50	75	7	0	0.00			6.4	6.0	154	12		24
9	76	54	65	1	63	81	0	0	0.00			9.5	9.3	157	22	1 8	24
10	86	69	78	14	68	77	0	13	0.00			10.9	10.7	168	23	1 8	23
11	89	68	79	15	69	80	0	14	0.00			11.9	11.3	157	27	1 3 8	24
12	77	60	69	4	57	73	0	4	1.28			8.2	7.4	254		1 3	23
13	84	52	68	3	53	62	0	3	0.00			5.9	4.3	215	19		23
14	82	59	71	6	67	85	0	6	0.00			7.9	7.8	169	23	1	24
15	80	61	71	5	67	87	0	6	0.58			8.8	3.6	237	34	1 3	24
16	69	53	61	-5	45	58	4	0	0.00			6.8	6.3	38	18		24
17	78	47	63	-3	49	63	2	0	0.00			1.7	1.1	125			24
18	82	53	68	2	53	59	0	3	0.00			3.9	3.4	161			23

19	82	59	71	4	58	64	0	6	0.00		3.1	2.8	141			23
20	87	61	74	7	62	68	0	9	0.00		4.9	3.4	68			24
21	84	65	75	8	67	79	0	10	0.00		3.5	2.7	195		1	24
22	86	65	76	9	62	68	0	11	0.00		7.0	5.3	43		1 8	24
23	83	61	72	5	57	62	0	7	0.00		6.4	6.1	39			22
24	85	60	73	5	64	73	0	8	0.00		5.6	5.5	162		1 8	24
25	87	69	78	9	69	77	0	13	0.00		8.4	8.2	170		1 8	24
26	90	74	82	13	72	76	0	17	0.00	T	9.7	9.2	173	20		23
27	92	74	83	14	72	73	0	18	0.00		9.0	8.7	166	17		24
28	91	73	82	13	69	70	0	17	0.00		7.8	6.3	177		8	24
29	88	68	78	8	67	73	0	13	0.00		6.1	4.9	142		1	24
30	78	58	68	-2	67	83	0	3	0.37		9.5	3.5	250	22	1 3 8	24
AG/TL	80.1	57.2	68.7		58.6	72	69	184	3.96		7.3					
NORM	77.7	54.1	65.9				74	100	4.77							
DFN	+2.4	+3.1	+2.8				-5	+84	-0.81							

Temperature Data

AVERAGE MONTHLY 68.7
DEPARTURE FROM NORMAL +2.8
HIGHEST 92 ON 27
LOWEST 36 ON 7
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 3
MIN 32 OR BELOW 0
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 69
DEPARTURE FROM NORMAL -5
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 184
DEPARTURE FROM NORMAL +84

Precipitation Data

TOTAL FOR THE MONTH 3.96
DEPARTURE FROM NORMAL -0.81
GREATEST 24HR TOTAL 0.00
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 4
ò 0.10 INCH OR MORE PRECIP 4
ò 0.50 INCH OR MORE PRECIP 3
ò 1.00 INCH OR MORE PRECIP 2

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: May Year: 1994

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)				
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	68	51	60	-10	48	69	5	0	0.00			8.7	7.2	26			23
2	69	51	60	-10	50	73	5	0	0.25			9.7	9.2	43	31	1 3 8	24
3	68	53	61	-10	57	90	4	0	0.86			8.8	7.1	11	22	1 3 8	24
4	75	57	66	-5	58	79	0	1	0.00			4.7	3.5	35		1 8	23
5	82	56	69	-2	59	75	0	4	0.00			3.4	1.3	98		1 8	24
6	85	59	72	1	63	72	0	7	0.00			6.6	6.3	182		1 8	24
7	80	69	75	4	70	88	0	10	0.05			7.0	5.7	219	17	1 3 8	22
8	71	61	66	-6	57	74	0	1	0.00	T		7.5	6.7	40	19	1 8	24
9	76	66	71	-2	65	85	0	6	0.07			3.3	1.8	8		1 8	24

10	81	67	74	1	67	86	0	9	0.00		4.3	4.0	54		1			23
11	89	66	78	5	71	82	0	13	0.00		3.1	2.6	153		1 8			24
12	91	73	82	8	71	77	0	17	0.00		5.2	4.0	207		1 8			24
13	90	69	80	6	71	78	0	15	0.08		7.1	5.8	184	21	1 8			23
14	89	69	79	5	68	74	0	14	0.01		7.8	6.3	202	18				24
15	85	67	76	2	71	83	0	11	0.34		6.7	1.0	176	27	3			24
16	86	71	79	4	71	85	0	14	0.04		6.1	4.8	63					23
17	83	65	74	-1	61	66	0	9	0.00		7.9	7.6	41		1			24
18	84	57	71	-4	55	61	0	6	0.00		7.9	7.6	24	19				23
19	82	58	70	-5	51	55	0	5	0.00		9.2	8.9	27	21				24
20	81	57	69	-6	53	55	0	4	0.00		6.6	6.3	34	18				23
21	85	56	71	-5	56	63	0	6	0.00		3.8	2.2	40		1 8			23
22	89	60	75	-1	58	62	0	10	0.00		3.8	2.8	4		1 8			23
23	90	60	75	-1	61	65	0	10	0.00		4.0	1.8	269		1 8			24
24	90	62	76	0	64	71	0	11	0.00		5.8	4.1	227		1 8			24
25	90	69	80	3	68	69	0	15	0.00		7.9	7.1	201		8			23
26	88	71	80	3	71	75	0	15	0.00	T	8.2	5.2	243					24
27	77	65	71	-6	66	83	0	6	0.00	T	8.0	7.7	52		1 8			23
28	86	64	75	-2	63	70	0	10	0.00		5.3	4.4	64		1 8			23
29	89	63	76	-2	68	88	0	11	0.26		5.8	3.9	169	30	1 3 8			24
30	89	67	78	0	70	82	0	13	0.52		4.7	3.0	152	25	3			24
31	86	70	78	0	72	87	0	13	0.03		6.3	5.0	102		1			24
AG/TL	83.0	62.9	72.9		63.0	75	14	266	2.51		6.3							
NORM	85.2	63.4	74.3				8	296	5.47									
DFN	-2.2	-0.5	-1.4				+6	-30	-2.96									

Temperature Data

AVERAGE MONTHLY	72.9
DEPARTURE FROM NORMAL	-1.4
HIGHEST 91 ON 12	
LOWEST 51 ON 1	
NUMBER OF DAYS WITH	
MAX 32 OR BELOW	0
MAX 90 OR ABOVE	5
MIN 32 OR BELOW	0
MIN 0 OR BELOW	0
HEATING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	14
DEPARTURE FROM NORMAL	+6
COOLING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	266
DEPARTURE FROM NORMAL	-30

Precipitation Data

TOTAL FOR THE MONTH	2.51
DEPARTURE FROM NORMAL	-2.96
GREATEST 24HR TOTAL	0.00
NUMBER OF DAYS WITH	
ò 0.01 INCH OR MORE PRECIP	11
ò 0.10 INCH OR MORE PRECIP	5
ò 0.50 INCH OR MORE PRECIP	2
ò 1.00 INCH OR MORE PRECIP	0

T -- trace
M -- estimated; value may be less than actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: June Year: 1994

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs

1	89	69	79	1	73	83	0	14	0.00		5.3	4.2	95		1		24
2	90	69	80	1	73	82	0	15	0.00		4.5	4.1	167		1 8		24
3	95	72	84	5	73	77	0	19	0.00		3.7	1.5	26				22
4	93	71	82	3	74	81	0	17	0.00		3.9	2.2	58		3		24
5	95	73	84	5	75	80	0	19	0.01		4.0	3.2	161		3		23
6	92	73	83	3	77	88	0	18	0.00		3.6	2.9	187		1		24
7	96	75	86	6	77	75	0	21	0.00		5.4	3.8	214				21
8	94	71	83	3	75	77	0	18	0.00	T	7.8	6.2	197				24
9	95	71	83	3	75	89	0	18	0.10		6.4	1.9	191	28	1 3 8		24
10	89	69	79	-1	73	91	0	14	1.02		4.7	1.4	328	27	1 2 3 8		24
11	90	67	79	-2	72	87	0	14	0.00		4.7	3.1	129		1		23
12	90	74	82	1	75	92	0	17	0.30		6.0	5.4	180	22	1 3		23
13	89	75	82	1	76	89	0	17	0.28		6.3	5.5	182		1 3 8		22
14	91	73	82	1	76	83	0	17	0.00		6.7	6.4	231		1 8		23
15	92	75	84	3	77	85	0	19	0.00	T	6.0	4.7	208		1 3 8		23
16	91	74	83	2	73	76	0	18	0.00		3.0	2.2	177	22	1 8		24
17	93	73	83	2	71	75	0	18	0.00		4.3	2.8	340		1 8		24
18	94	75	85	3	75	77	0	20	0.03		4.7	4.3	359		1 8		22
19	95	74	85	3	74	75	0	20	0.00		3.7	2.8	44				23
20	87	72	80	-2	71	84	0	15	0.12		2.4	0.8	17		3		24
21	92	71	82	0	72	81	0	17	0.77		5.4	2.9	338	20	1 3 8		24
22	90	70	80	-2	73	85	0	15	0.00		3.8	2.5	165		1 3		24
23	82	72	77	-5	74	93	0	12	0.76		6.3	6.0	183		1 3 8		21
24	90	71	81	-1	73	81	0	16	0.86		6.8	4.9	267		1 3		24
25	92	71	82	0	73	72	0	17	0.00		5.4	4.9	183				24
26	93	78	86	3	77	78	0	21	0.00	T	9.9	9.6	218	25			24
27	95	78	87	4	75	73	0	22	0.00		8.8	8.1	212		1 8		22
28	95	77	86	3	77	78	0	21	0.00		7.5	6.9	207		1 8		24
29	90	73	82	-1	77	85	0	17	0.00		7.6	5.3	205		1 3 8		24
30	93	73	83	0	77	85	0	18	0.01		4.9	3.2	167		1 3		24
AG/TL	91.7	72.6	82.2		74.4	82	0	524	4.26		5.5						
NORM	91.9	70.2	81.1				0	481	4.47								
DFN	-0.2	+2.4	+1.1				+0	+43	-0.21								

Temperature Data

AVERAGE MONTHLY	82.2
DEPARTURE FROM NORMAL	+1.1
HIGHEST 96 ON 7	
LOWEST 67 ON 11	
NUMBER OF DAYS WITH	
MAX 32 OR BELOW	0
MAX 90 OR ABOVE	25
MIN 32 OR BELOW	0
MIN 0 OR BELOW	0
HEATING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	0
DEPARTURE FROM NORMAL	0
COOLING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	524
DEPARTURE FROM NORMAL	+43

Precipitation Data

TOTAL FOR THE MONTH	4.26
DEPARTURE FROM NORMAL	-0.21
GREATEST 24HR TOTAL	0.00
NUMBER OF DAYS WITH	
ò 0.01 INCH OR MORE PRECIP	11
ò 0.10 INCH OR MORE PRECIP	8
ò 0.50 INCH OR MORE PRECIP	4
ò 1.00 INCH OR MORE PRECIP	1

T -- trace
M -- estimated; value may be less than actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: July Year: 1994

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	93	71	82	-1	74	78	0	17	0.16			5.3	3.5	155		1 3	23
2	95	72	84	1	75	79	0	19	0.00			5.0	4.4	162		1	24
3	96	74	85	2	75	75	0	20	0.00			1.8	1.3	129		1 8	24
4	96	75	86	3	76	73	0	21	0.00			2.4	1.8	210		1 8	19
5	97	77	87	4	77	78	0	22	0.00			4.1	3.2	198			23
6	96	75	86	3	76	77	0	21	0.00			3.9	3.2	205		1 8	24
7	96	74	85	2	76	74	0	20	0.00			8.0	6.9	182			22
8	95	76	86	3	77	84	0	21	0.70			6.7	5.5	187	23	3	24
9	93	74	84	1	76	88	0	19	0.94			5.7	2.5	177	19	1 3	23
10	86	74	80	-3	75	91	0	15	0.00 T			4.5	3.8	118		1	23
11	90	74	82	-1	75	84	0	17	0.00			4.1	3.1	143			21
12	80	74	77	-6	75	94	0	12	1.42			6.2	5.6	170		1 3	22
13	90	73	82	-1	75	93	0	17	0.20			6.4	3.8	174		1 3	22
14	87	74	81	-2	76	95	0	16	0.22			6.0	4.2	180		1 3	23
15	88	73	81	-3	76	94	0	16	0.05			6.4	5.8	186		1 3	24
16	93	75	84	0	77	81	0	19	0.00			6.9	4.0	210		1 3	23
17	95	73	84	0	75	80	0	19	0.45			5.7	3.3	204	22	3 8	23
18	88	74	81	-3	74	89	0	16	0.23			4.8	2.1	180		3	24
19	93	71	82	-2	77	86	0	17	0.00			4.2	3.6	170		1 8	24
20	93	75	84	0	77	78	0	19	0.00			4.5	3.8	186		1 8	23
21	93	74	84	0	77	81	0	19	0.00			6.4	5.7	216		1 8	23
22	88	72	80	-4	75	92	0	15	1.74			5.4	3.4	233		1 3	24
23	95	72	84	0	76	80	0	19	0.00			2.4	1.4	149		1	24
24	97	73	85	1	77	81	0	20	0.00			3.5	2.6	189			24
25	93	76	85	1	76	80	0	20	0.00			6.0	4.9	212			23
26	91	75	83	-1	77	85	0	18	0.85			6.0	3.6	227		1 3	24
27	84	70	77	-7	71	84	0	12	0.00 T			7.2	6.8	351		1	24
28	86	67	77	-7	66	75	0	12	0.00			4.2	3.3	354			24
29	87	65	76	-8	67	78	0	11	0.00			3.6	1.9	93			24
30	87	65	76	-8	69	83	0	11	0.00 T			2.1	0.4	74		1	24
31	89	71	80	-3	70	76	0	15	0.00			2.5	0.9	109			21
AG/TL	91.3	72.8	82.1		74.7	83	0	535	6.96			4.9					
NORM	94.3	72.7	83.5				0	574	3.50								
DFN	-3.0	+0.1	-1.4				+0	-39	+3.46								

Temperature Data		Precipitation Data		Weather Occurrences Legend
AVERAGE MONTHLY	82.1	TOTAL FOR THE MONTH	6.96	1 = fog
DEPARTURE FROM NORMAL	-1.4	DEPARTURE FROM NORMAL	+3.46	2 = fog reducing visibility to 1/4 mile or less
HIGHEST 97 ON 5		GREATEST 24HR TOTAL	0.00	3 = thunder
LOWEST 65 ON 29		NUMBER OF DAYS WITH		4 = ice pellets
NUMBER OF DAYS WITH		ò 0.01 INCH OR MORE PRECIP	11	5 = hail
MAX 32 OR BELOW	0	ò 0.10 INCH OR MORE PRECIP	10	6 = glaze or rime

```
 MAX 90 OR ABOVE            20     ò 0.50 INCH OR MORE PRECIP  5      7 = blowing dust or sand: visibility 1/2 mile or less
 MIN 32 OR BELOW             0     ò 1.00 INCH OR MORE PRECIP  2      8 = smoke or haze
 MIN  0 OR BELOW             0                                        9 = blowing snow
HEATING DEGREE DAYS (BASE 65)                                        x = tornado
 TOTAL THIS MONTH            0
  DEPARTURE FROM NORMAL      0    T -- trace                          obs -- number of hourly observations received
COOLING DEGREE DAYS (BASE 65)     M -- estimated;                            by the SRCC for that day
 TOTAL THIS MONTH          535          value may be less than
  DEPARTURE FROM NORMAL    -39          actual daily total           * -- values use Daily Normals calculated by SRCC
Preliminary Daily Summary:  SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month:          August      Year: 1994
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	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	89	66	78	-6	71	81	0	13	0.00			2.5	2.0	99		1 8	24
2	88	68	78	-6	72	84	0	13	0.07			4.7	4.0	96	22	1	23
3	89	72	81	-3	74	87	0	16	0.00 T			5.6	4.9	139			24
4	92	74	83	-1	75	89	0	18	0.04			5.1	3.4	183		1	24
5	87	74	81	-2	74	86	0	16	0.03			4.8	2.7	313		1 3	24
6	91	71	81	-2	73	84	0	16	0.00			4.2	2.9	86		1 8	23
7	93	70	82	-1	73	85	0	17	0.08			4.6	2.6	146		1 3 8	24
8	90	72	81	-2	73	83	0	16	0.00			4.9	2.7	68		1 8	24
9	93	69	81	-2	74	81	0	16	0.00			4.1	3.2	91		1 8	24
10	95	70	83	0	73	77	0	18	0.00			2.7	2.0	46		1 8	24
11	95	74	85	2	75	80	0	20	0.00			4.5	3.4	60		1 8	24
12	95	72	84	1	75	81	0	19	0.00			3.0	2.6	86		1 8	23
13	93	72	83	0	74	79	0	18	0.00			2.0	0.5	74		1 8	24
14	97	74	86	3	76	76	0	21	0.00			4.7	4.2	19		1 8	24
15	90	68	79	-4	70	75	0	14	0.00			8.3	8.1	3		1 8	24
16	89	66	78	-5	66	72	0	13	0.00			5.2	4.9	355			24
17	92	65	79	-3	68	77	0	14	0.00			2.8	1.8	84		1 8	24
18	92	66	79	-3	73	84	0	14	0.05			4.3	3.5	202	19	1 3 8	23
19	91	72	82	0	76	90	0	17	0.67			7.1	3.1	182	31	1 3 8	24
20	93	72	83	1	76	88	0	18	1.25			6.3	3.0	217		1 3	24
21	86	73	80	-2	74	87	0	15	0.45			3.5	1.4	16		1 3	23
22	90	69	80	-2	71	78	0	15	0.00			3.9	3.8	69			22
23	93	69	81	-1	70	75	0	16	0.00			4.0	3.6	87		8	24
24	93	70	82	0	73	79	0	17	0.00			3.0	2.2	87		1 8	23
25	93	71	82	0	73	79	0	17	0.00			1.7	1.3	78		1 8	23
26	91	72	82	1	75	85	0	17	0.00			4.0	3.5	145		1 8	23
27	93	73	83	2	74	80	0	18	0.00			3.5	2.8	137		1 8	24
28	95	68	82	1	73	79	0	17	0.00			1.8	1.4	133		1 8	24
29	95	72	84	3	75	79	0	19	0.00			3.3	1.7	124		1 8	23
30	95	75	85	4	75	80	0	20	0.00			4.9	3.5	182		1 8	23
31	93	74	84	3	75	83	0	19	0.00			6.0	4.2	219		3	22
AG/TL	92.0	70.7	81.3		73.2	81	0	517	2.64			4.2					
NORM	93.8	71.1	82.5				0	540	2.84								
DFN	-1.8	-0.4	-1.2				+0	-23	-0.20								

Temperature Data

AVERAGE MONTHLY	81.3
DEPARTURE FROM NORMAL	-1.2
HIGHEST 97 ON 14	
LOWEST 65 ON 17	
NUMBER OF DAYS WITH	
MAX 32 OR BELOW	0
MAX 90 OR ABOVE	25
MIN 32 OR BELOW	0
MIN 0 OR BELOW	0
HEATING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	0
DEPARTURE FROM NORMAL	0
COOLING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	517
DEPARTURE FROM NORMAL	-23

Precipitation Data

TOTAL FOR THE MONTH	2.64
DEPARTURE FROM NORMAL	-0.20
GREATEST 24HR TOTAL	0.00
NUMBER OF DAYS WITH	
ò 0.01 INCH OR MORE PRECIP	8
ò 0.10 INCH OR MORE PRECIP	3
ò 0.50 INCH OR MORE PRECIP	2
ò 1.00 INCH OR MORE PRECIP	1

T -- trace
M -- estimated; value may be less than actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: September Year: 1994

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	90	71	81	1	73	84	0	16	0.00 T			5.5	1.2	243			24
2	81	68	75	-5	67	84	0	10	0.00			5.0	4.5	35		1 8	24
3	88	67	78	-2	68	79	0	13	0.00			3.8	3.3	38		1 8	23
4	92	64	78	-2	68	77	0	13	0.00			2.5	1.8	125		1 8	24
5	90	69	80	1	73	85	0	15	0.00			4.8	3.7	154		1 8	23
6	80	71	76	-3	73	97	0	11	0.61			3.7	1.4	31	22	1 3 8	21
7	87	71	79	0	71	84	0	14	0.00			5.3	4.7	37		1 8	23
8	88	68	78	-1	66	72	0	13	0.00			5.8	5.5	37		1 8	23
9	86	63	75	-4	64	72	0	10	0.00			6.0	5.8	34		1 8	24
10	86	69	78	-1	70	86	0	13	0.00			3.9	3.0	68		1 8	24
11	92	66	79	1	70	78	0	14	0.00			3.3	2.8	59		1 2	23
12	94	67	81	3	70	78	0	16	0.00			2.8	2.4	102		1	24
13	93	66	80	2	69	78	0	15	0.00			3.9	3.7	110		1	24
14	93	65	79	1	68	77	0	14	0.00			3.9	3.2	103		1 8	24
15	87	62	75	-2	68	79	0	10	0.00 T			4.5	4.2	66		1 8	24
16	79	74	77	0	74	94	0	12	1.21			6.8	5.9	27		1	24
17	86	68	77	0	72	85	0	12	0.00 T			6.4	6.1	350		1	24
18	86	64	75	-1	63	74	0	10	0.00			5.8	5.6	359		5	24
19	83	60	72	-4	59	68	0	7	0.00			5.3	5.1	28	15		21
20	86	58	72	-4	62	76	0	7	0.00			5.2	4.7	41		1 8	23
21	87	62	75	-1	62	75	0	10	0.00			3.9	3.2	55		1 8	24
22	88	57	73	-2	61	80	0	8	0.00 T			6.0	4.5	313	24	1 8	24
23	79	50	65	-10	49	63	0	0	0.00			6.1	2.2	234			24
24	76	52	64	-11	51	69	1	0	0.07			6.4	3.0	278	18		24
25	78	47	63	-11	51	67	2	0	0.00			5.5	4.8	304			24
26	88	52	70	-4	56	65	0	5	0.00			6.3	5.8	231		1 8	24
27	90	56	73	-1	60	69	0	8	0.00			3.8	0.5	170			24

28	94	60	77	4	64	72	0	12	0.00			5.1	4.1	217	1	24
29	96	61	79	7	63	70	0	14	0.00			2.2	1.0	307	8	24
30	93	66	80	8	62	64	0	15	0.00			3.3	2.7	110		24
AG/TL	87.2	63.1	75.2		64.9	77	3	317	1.89			4.8				
NORM	88.6	65.0	76.8				3	358	3.37							
DFN	-1.4	-1.9	-1.7				+0	-41	-1.48							

Temperature Data

AVERAGE MONTHLY	75.2
DEPARTURE FROM NORMAL	-1.7
HIGHEST 96 ON 29	
LOWEST 47 ON 25	
NUMBER OF DAYS WITH	
MAX 32 OR BELOW	0
MAX 90 OR ABOVE	11
MIN 32 OR BELOW	0
MIN 0 OR BELOW	0
HEATING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	3
DEPARTURE FROM NORMAL	0
COOLING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	317
DEPARTURE FROM NORMAL	-41

Precipitation Data

TOTAL FOR THE MONTH	1.89
DEPARTURE FROM NORMAL	-1.48
GREATEST 24HR TOTAL	0.00
NUMBER OF DAYS WITH	
ò 0.01 INCH OR MORE PRECIP	3
ò 0.10 INCH OR MORE PRECIP	2
ò 0.50 INCH OR MORE PRECIP	2
ò 1.00 INCH OR MORE PRECIP	1

T -- trace
M -- estimated; value may be less than actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: October Year: 1994

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	87	64	76	4	65	72	0	11	0.00 T			5.0	4.7	57		8	23
2	85	68	77	5	69	86	0	12	0.01			7.5	6.8	20		1	23
3	88	63	76	4	63	73	0	11	0.00			6.3	5.8	28			24
4	89	60	75	4	62	68	0	10	0.00			5.3	5.1	51	16	1 8	23
5	86	59	73	3	57	64	0	8	0.00			4.6	3.9	71			23
6	87	55	71	1	59	70	0	6	0.00			5.9	5.4	158		1 8	24
7	87	62	75	6	65	72	0	10	0.00			7.5	7.3	141		1 8	24
8	75	59	67	-2	68	93	0	2	0.17			6.5	2.2	111	25	1 8	22
9	71	56	64	-5	51	70	1	0	0.25			10.9	10.7	9		1	24
10	72	49	61	-7	42	54	4	0	0.01			10.2	9.8	20	22		23
11	59	52	56	-12	52	94	9	0	1.96			7.0	6.9	358		1	23
12	60	57	59	-9	58	97	6	0	0.28			5.5	5.1	24		1	24
13	65	57	61	-6	58	93	4	0	0.00 T			6.1	5.9	338		1 8	24
14	71	52	62	-5	58	88	3	0	0.00			4.4	3.7	29		1 8	24
15	68	59	64	-2	62	96	1	0	0.90			5.8	5.2	92		1 8	24
16	68	63	66	0	66	98	0	1	4.09			6.5	5.7	100		1 3	22
17	75	62	69	3	66	94	0	4	0.37			8.7	8.2	134	18	1	24
18	75	68	72	6	70	96	0	7	0.11			7.5	6.5	151	17	1 8	24

19	83	68	76	10	70	90	0	11	0.01		1.8	1.1	266		1	24
20	83	65	74	9	69	94	0	9	0.48		4.0	1.1	173		1 3 8	23
21	80	66	73	9	68	90	0	8	0.06		5.9	3.4	228	16	1 3	24
22	83	59	71	7	63	86	0	6	0.06		4.9	2.0	280		1	24
23	79	57	68	4	60	81	0	3	0.00		4.3	3.9	43		1	24
24	83	53	68	5	59	77	0	3	0.00		3.6	1.9	36			22
25	65	47	56	-7	51	81	9	0	0.01		9.1	8.8	17	19		22
26	62	42	52	-11	40	72	13	0	0.00		6.8	6.4	24	19		23
27	65	40	53	-9	41	72	12	0	0.00		4.0	3.6	50			24
28	73	40	57	-5	46	75	8	0	0.00		3.4	2.3	100			24
29	74	47	61	-1	50	76	4	0	0.00		4.7	4.1	55		1	24
30	78	49	64	3	56	83	1	0	0.00		3.3	2.4	43		1	24
31	78	52	65	4	57	83	0	0	0.00		7.7	4.5	294		1 2	22
AG/TL	75.9	56.5	66.2		58.7	82	75	122	8.77		6.0					
NORM	79.6	53.0	66.3				68	108	3.91							
DFN	-3.7	+3.5	-0.1				+7	+14	+4.86							

Temperature Data

AVERAGE MONTHLY 66.2
DEPARTURE FROM NORMAL -0.1
HIGHEST 89 ON 4
LOWEST 40 ON 27
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 0
MIN 32 OR BELOW 0
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 75
DEPARTURE FROM NORMAL +7
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 122
DEPARTURE FROM NORMAL +14

Precipitation Data

TOTAL FOR THE MONTH 8.77
DEPARTURE FROM NORMAL +4.86
GREATEST 24HR TOTAL 3.05
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 15
ò 0.10 INCH OR MORE PRECIP 9
ò 0.50 INCH OR MORE PRECIP 3
ò 1.00 INCH OR MORE PRECIP 2

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: November Year: 1994

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)				
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	67	41	54	-7	42	73	11	0	0.00			3.5	1.2	116			21
2	78	40	59	-2	53	75	6	0	0.00			6.6	6.3	161		1 8	24
3	83	65	74	13	67	83	0	9	0.00			8.5	8.1	164		1 8	23
4	82	65	74	13	66	83	0	9	0.00			9.0	8.7	161		1 8	24
5	76	55	66	6	62	82	0	1	0.71			10.0	7.0	222		8	24
6	70	49	60	1	52	79	5	0	0.00			5.4	4.6	37			22
7	75	46	61	2	50	79	4	0	0.00			3.1	1.8	79			23
8	75	47	61	3	59	90	4	0	0.00			4.5	3.8	157		1 8	24
9	82	60	71	13	66	95	0	6	0.63			5.8	2.3	165	19	1 2 8	23

10	60	52	56	-2	52	88	9	0	0.00 T			9.2	8.7	2		1 8		24
11	57	52	55	-2	51	90	10	0	0.01			4.0	3.7	9		1 8		24
12	63	56	60	3	56	92	5	0	0.00 T			3.6	3.4	94		1		23
13	75	56	66	9	60	85	0	1	0.00			3.8	3.6	122		1		24
14	81	59	70	14	64	86	0	5	0.00			4.0	3.3	103		1 8		24
15	77	59	68	12	63	83	0	3	0.00 T			5.8	3.8	14		1 8		24
16	63	54	59	3	53	85	6	0	0.01			8.7	8.1	5		1		24
17	62	51	57	2	50	83	8	0	0.00			3.8	2.1	131		1		24
18	72	52	62	7	54	83	3	0	0.00			3.5	2.9	62		1 8		23
19	73	49	61	6	51	78	4	0	0.00			4.5	3.4	74		1		23
20	76	51	64	9	59	85	1	0	0.07			9.2	8.1	177	21	1 8		24
21	72	51	62	8	47	66	3	0	0.00			4.9	2.7	289				23
22	63	43	53	-1	42	72	12	0	0.00			7.8	7.3	38				21
23	56	40	48	-6	29	52	17	0	0.00			7.1	6.6	38				23
24	58	43	51	-3	35	59	14	0	0.00			3.4	3.0	165				23
25	54	49	52	-1	45	83	13	0	0.20			3.9	2.9	97		1		23
26	71	51	61	8	62	97	4	0	0.00 T			3.8	2.0	151		1 2		22
27	78	61	70	17	63	79	0	5	1.03			11.5	8.6	199		1 3		24
28	63	43	53	1	38	65	12	0	0.00			2.7	1.3	27				22
29	65	43	54	2	41	66	11	0	0.00			3.1	2.6	28				24
30	58	37	48	-4	34	69	17	0	0.00			4.8	4.4	24				24
AG/TL	69.5	50.7	60.1		52.2	80	179	39	2.66			5.7						
NORM	67.7	44.6	56.2				282	16	4.45									
DFN	+1.8	+6.1	+3.9				-103	+23	-1.79									

Temperature Data

AVERAGE MONTHLY 60.1
DEPARTURE FROM NORMAL +3.9
HIGHEST 83 ON 3
LOWEST 37 ON 30
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 0
MIN 32 OR BELOW 0
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 179
DEPARTURE FROM NORMAL -103
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 39
DEPARTURE FROM NORMAL +23

Precipitation Data

TOTAL FOR THE MONTH 2.66
DEPARTURE FROM NORMAL -1.79
GREATEST 24HR TOTAL 0.00
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 7
ò 0.10 INCH OR MORE PRECIP 4
ò 0.50 INCH OR MORE PRECIP 3
ò 1.00 INCH OR MORE PRECIP 1

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: December Year: 1994

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)				
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs

1	63	31	47	-5	31	69	18	0	0.00		2.1	1.7	93			24
2	62	33	48	-3	39	74	17	0	0.00		2.4	2.2	137			23
3	60	51	56	5	55	95	9	0	0.09		4.7	3.9	40		1 8	24
4	69	58	64	13	59	95	1	0	0.01		5.4	4.5	343		1 8	23
5	74	54	64	14	58	86	1	0	0.00		3.8	3.0	185		1	22
6	64	52	58	8	56	93	7	0	0.00	T	6.2	6.0	159		1 2 8	24
7	76	57	67	17	62	87	0	2	0.03		5.6	3.2	153		1 8	23
8	79	56	68	18	59	83	0	3	0.14		6.5	3.9	136		1 2 8	23
9	64	48	56	6	55	97	9	0	0.12		7.8	4.4	14		1 2 8	23
10	50	38	44	-5	40	83	21	0	1.07		10.2	9.5	343		1	24
11	42	29	36	-13	26	71	29	0	0.00		5.7	4.7	22			23
12	49	26	38	-11	30	78	27	0	0.00		2.7	2.4	68		1	24
13	54	35	45	-4	35	72	20	0	0.00		4.6	4.5	57			24
14	50	44	47	-2	43	86	18	0	0.04		6.3	5.9	74		1	24
15	52	48	50	2	48	93	15	0	0.34		6.1	5.5	80		1	23
16	63	50	57	9	55	94	8	0	0.77		5.9	2.6	144	27	1	24
17	62	43	53	5	48	83	12	0	0.00		4.8	4.5	357			24
18	58	37	48	0	36	70	17	0	0.00		5.1	4.5	12			23
19	57	32	45	-3	33	74	20	0	0.00		3.0	2.3	106			23
20	64	34	49	1	43	79	16	0	0.00		3.4	2.5	109			24
21	60	49	55	8	51	89	10	0	0.00	T	3.1	0.9	240		1 8	23
22	51	40	46	-1	43	87	19	0	0.00	T	9.4	9.1	328	19		23
23	62	37	50	3	43	84	15	0	0.00		7.3	5.9	4		1	24
24	50	34	42	-5	36	82	23	0	0.00		6.8	6.2	13			24
25	48	33	41	-6	35	90	24	0	0.00		5.1	4.5	17		1 8	23
26	60	28	44	-2	33	78	21	0	0.00		2.2	1.9	28		1	24
27	62	32	47	1	35	76	18	0	0.00		0.8	0.4	103			24
28	57	38	48	2	43	80	17	0	0.11		4.3	3.2	39		1	24
29	54	49	52	6	48	90	13	0	0.77		8.8	8.0	29	18	1 8	23
30	55	48	52	6	45	81	13	0	0.00		4.7	4.1	21		1	23
31	58	49	54	8	49	87	11	0	0.00	T	2.1	1.1	141		1 8	22
AG/TL	59.0	41.7	50.3		44.3	83	449	5	3.49		5.1					
NORM	58.8	38.0	48.4				525	10	5.23							
DFN	+0.2	+3.7	+1.9				-76	-5	-1.74							

Temperature Data

AVERAGE MONTHLY 50.3
DEPARTURE FROM NORMAL +1.9
HIGHEST 79 ON 8
LOWEST 26 ON 12
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 0
MIN 32 OR BELOW 6
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 449
DEPARTURE FROM NORMAL -76
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 5
DEPARTURE FROM NORMAL -5

Precipitation Data

TOTAL FOR THE MONTH 3.49
DEPARTURE FROM NORMAL -1.74
GREATEST 24HR TOTAL 0.00
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 11
ò 0.10 INCH OR MORE PRECIP 7
ò 0.50 INCH OR MORE PRECIP 3
ò 1.00 INCH OR MORE PRECIP 1

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: January Year: 1995

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)				
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	55	33	44	-2	42	88	21	0	0.00 T			6.6	6.2	340	17	1 8	23
2	43	27	35	-11	24	64	30	0	0.00 T			4.5	3.6	18			24
3	45	36	41	-5	31	71	24	0	0.01			6.7	5.3	23			24
4	42	27	35	-11	22	62	30	0	0.00			11.0	10.5	16	19		22
5	42	23	33	-13	16	51	32	0	0.00			6.8	6.0	72			24
6	61	37	49	3	46	84	16	0	1.06			7.9	1.4	264	29	1 3 5	24
7	53	34	44	-2	33	70	21	0	0.00			5.4	4.9	324	14		23
8	66	31	49	4	38	72	16	0	0.00			6.7	6.2	168			24
9	64	37	51	6	43	78	14	0	0.00			5.0	3.6	76			24
10	74	45	60	15	58	87	5	0	0.00			7.5	7.1	171	24	1 2	24
11	80	66	73	28	64	79	0	8	0.00			11.2	10.9	187	23		24
12	75	64	70	25	61	78	0	5	0.00			9.2	8.7	165			23
13	65	50	58	13	53	83	7	0	0.52			10.5	7.8	210	27	3	24
14	50	45	48	3	44	89	17	0	0.27			8.9	6.9	315	22	1	24
15	59	39	49	3	38	70	16	0	0.00			7.7	6.3	356			24
16	62	35	49	3	39	77	16	0	0.00			4.5	4.3	135			23
17	64	45	55	9	49	80	10	0	0.01			7.0	3.9	115			24
18	64	49	57	11	55	93	8	0	3.31			11.4	1.7	121	28	1 3 8	24
19	55	37	46	0	36	67	19	0	0.00			13.0	12.6	290	34		22
20	57	34	46	0	29	48	19	0	0.00			6.9	6.6	315			13
21	63	32	48	2	34	63	17	0	0.00			4.9	3.3	292	19		24
22	45	35	40	-6	35	88	25	0	0.34			9.4	8.5	35		1	24
23	47	31	39	-7	32	78	26	0	0.00			9.6	9.1	327	21		21
24	67	25	46	0	34	82	19	0	0.00			3.0	1.9	191		1	24
25	61	36	49	2	42	80	16	0	0.00			3.4	3.0	190			23
26	59	42	51	4	51	90	14	0	0.41			5.1	4.6	123	17	1	23
27	64	52	58	11	57	98	7	0	0.14			8.5	7.6	163	22	1 8	22
28	64	48	56	9	49	77	9	0	0.00			11.3	8.7	287	22		24
29	48	40	44	-3	41	91	21	0	0.04			8.3	8.1	346		1	23
30	49	33	41	-6	34	79	24	0	0.00			6.7	6.1	319	18		23
31	60	28	44	-4	33	65	21	0	0.00			5.2	4.7	204		1 8	20
AG/TL	58.2	38.6	48.4		40.7	77	520	13	6.11			7.5					
NORM	56.0	35.9	46.0				597	7	5.46								
DFN	+2.2	+2.7	+2.4				-77	+6	+0.65								

Temperature Data

AVERAGE MONTHLY	48.4
DEPARTURE FROM NORMAL	+2.4
HIGHEST 80 ON 11	
LOWEST 23 ON 5	
NUMBER OF DAYS WITH	
MAX 32 OR BELOW	0

Precipitation Data

TOTAL FOR THE MONTH	6.11
DEPARTURE FROM NORMAL	+0.65
GREATEST 24HR TOTAL	51.02
NUMBER OF DAYS WITH	
ò 0.01 INCH OR MORE PRECIP	10
ò 0.10 INCH OR MORE PRECIP	7

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime

```
 MAX 90 OR ABOVE             0     ò 0.50 INCH OR MORE PRECIP  3      7 = blowing dust or sand: visibility 1/2 mile or less
 MIN 32 OR BELOW             8     ò 1.00 INCH OR MORE PRECIP  2      8 = smoke or haze
 MIN  0 OR BELOW             0                                        9 = blowing snow
HEATING DEGREE DAYS (BASE 65)                                        x = tornado
 TOTAL THIS MONTH          520
  DEPARTURE FROM NORMAL    -77    T -- trace                         obs -- number of hourly observations received
COOLING DEGREE DAYS (BASE 65)     M -- estimated;                          by the SRCC for that day
 TOTAL THIS MONTH           13         value may be less than
  DEPARTURE FROM NORMAL     +6         actual daily total           * -- values use Daily Normals calculated by SRCC
Preliminary Daily Summary:  SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month:        February      Year: 1995
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	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	71	41	56	8	43	71	9	0	0.00			7.8	7.3	218	19	8	23
2	80	41	61	13	43	62	4	0	0.00			6.0	5.0	222			23
3	68	47	58	10	44	63	7	0	0.00			12.6	8.7	308	33		24
4	56	36	46	-2	27	51	19	0	0.00			9.1	8.5	312	20		23
5	52	31	42	-7	30	63	23	0	0.00			8.4	4.6	359	27		23
6	60	26	43	-6	32	71	22	0	0.00			3.2	2.8	216			23
7	44	33	39	-10	31	73	26	0	0.00 T			6.9	5.8	322	21		22
8	45	27	36	-13	17	47	29	0	0.00			8.8	6.4	359	20		24
9	48	26	37	-13	30	71	28	0	0.02			7.5	7.1	165		1	24
10	73	47	60	10	55	89	5	0	0.01			7.9	1.2	201	16	1 8	24
11	54	31	43	-7	37	89	22	0	0.11			12.8	12.5	29	29	1	24
12	37	26	32	-18	21	67	33	0	0.00			10.3	9.9	42	22		24
13	38	32	35	-16	28	80	30	0	0.07			9.6	9.4	43			22
14	54	32	43	-8	40	89	22	0	0.11			6.0	4.3	102		1 8	21
15	69	51	60	9	62	97	5	0	0.00 T			5.3	5.1	166		1 2 8	24
16	67	42	55	4	48	93	10	0	0.18			11.0	9.5	2	26	1 8	23
17	46	37	42	-10	38	89	23	0	0.00 T			8.2	7.3	18			24
18	61	38	50	-2	41	77	15	0	0.00			2.7	1.9	13		1	24
19	67	42	55	3	47	83	10	0	0.00			2.2	0.9	258		1 8	23
20	76	42	59	7	40	57	6	0	0.00			6.5	6.1	300	22	1 2	24
21	73	46	60	8	32	40	5	0	0.00			3.7	3.1	347			23
22	70	38	54	2	37	53	11	0	0.00			4.5	4.3	185			24
23	72	49	61	8	52	74	4	0	0.00 T			3.4	3.0	197			24
24	61	43	52	-2	34	48	13	0	0.00			8.7	8.2	50	29		24
25	66	38	52	-2	33	53	13	0	0.00			3.0	2.9	152			24
26	72	49	61	7	47	63	4	0	0.37			6.7	6.6	153			22
27	75	57	66	12	60	88	0	1	1.06			7.7	7.0	173	19	1 3 8	24
28	59	47	53	-2	52	92	12	0	0.25			10.1	9.6	25	22	1 8	22
AG/TL	61.2	39.1	50.2		39.3	71	410	1	2.18			7.2					
NORM	61.9	40.0	51.0				400	6	4.34								
DFN	-0.7	-0.9	-0.8				+10	-5	-2.16								

Temperature Data

AVERAGE MONTHLY	50.2
DEPARTURE FROM NORMAL	-0.8
HIGHEST 80 ON 2	
LOWEST 26 ON 6	
NUMBER OF DAYS WITH	
MAX 32 OR BELOW	0
MAX 90 OR ABOVE	0
MIN 32 OR BELOW	8
MIN 0 OR BELOW	0
HEATING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	410
DEPARTURE FROM NORMAL	+10
COOLING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	1
DEPARTURE FROM NORMAL	-5

Precipitation Data

TOTAL FOR THE MONTH	2.18
DEPARTURE FROM NORMAL	-2.16
GREATEST 24HR TOTAL	14.06
NUMBER OF DAYS WITH	
ò 0.01 INCH OR MORE PRECIP	9
ò 0.10 INCH OR MORE PRECIP	6
ò 0.50 INCH OR MORE PRECIP	1
ò 1.00 INCH OR MORE PRECIP	1

T -- trace
M -- estimated; value may be less than actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: March Year: 1995

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	47	37	42	-13	39	87	23	0	0.00			12.4	11.9	15	20	1 8	23
2	45	36	41	-14	31	72	24	0	0.05			8.0	7.5	36		1 8	24
3	41	35	38	-17	35	88	27	0	0.06			7.4	7.3	41		1 8	24
4	56	39	48	-7	45	96	17	0	1.02			5.9	4.5	86		1 3	24
5	75	56	66	11	62	91	0	1	0.60			6.9	6.7	171	24	1 3 8	23
6	79	60	70	14	62	81	0	5	0.51			8.1	7.3	166	25	1 2 3 8	23
7	67	37	52	-4	50	89	13	0	1.64			12.7	9.1	342	32	1 3	24
8	50	31	41	-16	25	57	24	0	0.00			11.9	11.6	359	30		23
9	51	30	41	-16	30	68	24	0	0.00			5.8	5.5	43	16		23
10	61	34	48	-9	33	62	17	0	0.00			2.7	2.6	144			24
11	72	42	57	0	45	64	8	0	0.00			5.0	4.9	152	15		24
12	76	53	65	7	54	71	0	0	0.00			9.0	8.9	147	23		24
13	74	57	66	8	56	80	0	1	0.67			11.3	9.8	136	34	1	24
14	63	56	60	2	57	94	5	0	0.33			4.5	4.0	113	29	1	24
15	66	55	61	3	56	88	4	0	0.00 T			3.0	2.9	51		1	23
16	68	54	61	3	55	86	4	0	0.00 T			4.3	4.1	51		1	24
17	72	52	62	3	56	81	3	0	0.00 T			2.5	2.5	46		1	24
18	79	53	66	7	52	66	0	1	0.00			4.1	3.6	356	20		24
19	81	55	68	9	52	59	0	3	0.00			4.2	3.8	196	18		24
20	78	60	69	10	58	71	0	4	0.00			9.4	8.3	213	27	1 8	24
21	82	55	69	9	58	71	0	4	0.00			5.1	4.3	170	16	1 8	23
22	89	64	77	17	61	67	0	12	0.00			9.3	9.1	208	20	1	24
23	87	65	76	16	65	75	0	11	0.00			2.7	1.6	180		1 8	22
24	73	57	65	5	52	63	0	0	0.00			7.7	7.5	59	17		23
25	82	57	70	9	53	58	0	5	0.00			7.8	6.7	122			23
26	82	61	72	11	65	79	0	7	0.00			5.0	4.7	168	19	1 8	23
27	78	56	67	6	51	61	0	2	0.07			5.7	5.5	348	20		24

28	67	53	60	-1	45	63	5	0	0.01		4.4	4.3	31	22		22
29	61	50	56	-5	47	73	9	0	0.02		3.6	3.4	28			24
30	69	54	62	0	46	61	3	0	0.00		6.1	6.1	45	18		24
31	61	44	53	-9	42	62	12	0	0.00	T	6.8	6.6	44	20		24
AG/TL	68.8	49.9	59.3		49.6	74	222	56	4.98		6.6					
NORM	69.7	47.1	58.4				233	28	5.53							
DFN	-0.9	+2.8	+0.9				-11	+28	-0.55							

Temperature Data

AVERAGE MONTHLY 59.3
DEPARTURE FROM NORMAL +0.9
HIGHEST 89 ON 22
LOWEST 30 ON 9
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 0
MIN 32 OR BELOW 2
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 222
DEPARTURE FROM NORMAL -11
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 56
DEPARTURE FROM NORMAL +28

Precipitation Data

TOTAL FOR THE MONTH 4.98
DEPARTURE FROM NORMAL -0.55
GREATEST 24HR TOTAL 3.00
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 11
ò 0.10 INCH OR MORE PRECIP 6
ò 0.50 INCH OR MORE PRECIP 5
ò 1.00 INCH OR MORE PRECIP 2

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: April Year: 1995

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	68	39	54	-8	43	69	11	0	0.00			1.5	1.0	318			24
2	75	47	61	-2	48	64	4	0	0.00			2.3	1.6	224	17		24
3	80	45	63	0	46	55	2	0	0.00			4.5	4.2	172	22		24
4	70	58	64	1	57	84	1	0	0.02			3.5	3.3	50		1 8	24
5	68	54	61	-2	46	58	4	0	0.00			6.4	5.7	75	18		23
6	76	56	66	2	55	75	0	1	0.08			2.6	2.5	74			23
7	81	52	67	3	57	73	0	2	0.00			3.4	3.2	172	17	1	22
8	83	58	71	7	61	73	0	6	0.00			7.9	7.8	179	18	1 8	23
9	86	64	75	11	64	75	0	10	0.00			10.3	10.0	179	24		24
10	83	63	73	9	65	82	0	8	1.06			11.9	10.8	153	33	1 3	24
11	69	50	60	-4	53	76	5	0	0.98			7.6	2.8	296	40	3	23
12	82	44	63	-2	47	60	2	0	0.00			2.6	2.2	288	17		23
13	74	49	62	-3	47	62	3	0	0.00			2.8	2.6	7	14		24
14	80	47	64	-1	50	66	1	0	0.00			2.1	2.1	140			23
15	85	54	70	4	58	68	0	5	0.00			3.6	3.5	179	15		24
16	86	62	74	8	64	73	0	9	0.00			5.1	4.8	164	15	1 8	23
17	85	65	75	9	65	72	0	10	0.00			8.0	7.8	167	22		22
18	82	71	77	11	67	74	0	12	0.00	T		8.3	5.7	197	24		24

19	88	70	79	12	68	75	0	14	0.00 T		10.0	9.3	165	24			21
20	78	59	69	2	67	93	0	4	3.87		8.4	3.0	203	23	1 3		24
21	83	53	68	1	57	71	0	3	0.00		5.1	4.4	140		1 2		23
22	72	59	66	-1	64	94	0	1	3.69		10.5	7.5	65	35	1 3		24
23	66	58	62	-5	53	78	3	0	0.18		12.7	11.6	313	25	1 3		22
24	68	46	57	-11	47	73	8	0	0.00		6.8	6.0	359				20
25	75	49	62	-7	50	69	3	0	0.00		3.5	2.7	149				24
26	77	52	65	-4	53	69	0	0	0.00		6.6	6.4	168	24			23
27	75	57	66	-3	59	80	0	1	0.00		6.0	3.8	41		1		24
28	75	58	67	-2	51	61	0	2	0.00		7.3	6.8	82				24
29	83	61	72	2	61	71	0	7	0.00		7.8	7.3	176	26	3		23
30	79	64	72	2	67	86	0	7	0.00 T		6.5	2.6	132		1 8		23
AG/TL	77.7	55.5	66.6		56.3	73	47	102	9.88		6.2						
NORM	77.7	54.1	65.9				74	100	4.77								
DFN	+0.0	+1.4	+0.7				-27	+2	+5.11								

Temperature Data

AVERAGE MONTHLY 66.6
DEPARTURE FROM NORMAL +0.7
HIGHEST 88 ON 19
LOWEST 39 ON 1
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 0
MIN 32 OR BELOW 0
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 47
DEPARTURE FROM NORMAL -27
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 102
DEPARTURE FROM NORMAL +2

Precipitation Data

TOTAL FOR THE MONTH 9.88
DEPARTURE FROM NORMAL +5.11
GREATEST 24HR TOTAL 0.00
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 7
ò 0.10 INCH OR MORE PRECIP 5
ò 0.50 INCH OR MORE PRECIP 4
ò 1.00 INCH OR MORE PRECIP 3

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: May Year: 1995

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	79	59	69	-1	60	75	0	4	0.04			10.6	4.8	291	25	1 8	23
2	69	51	60	-10	49	67	5	0	0.00			7.9	7.3	43	17		22
3	65	58	62	-9	55	81	3	0	0.13			7.9	6.1	118		1	23
4	84	62	73	2	66	82	0	8	0.68			6.6	2.5	14	17	1 3	23
5	78	65	72	1	64	79	0	7	0.00			8.6	8.1	48		1	23
6	87	63	75	4	66	79	0	10	0.72			8.5	5.1	106	26	1 3 8	21
7	84	67	76	5	72	86	0	11	0.00 T			8.4	8.2	140	18	1 8	24
8	77	64	71	-1	66	88	0	6	0.54			9.1	1.2	151	24	1 3 8	24
9	88	59	74	1	63	76	0	9	0.00			7.2	6.6	185	18	1 2	23

10	91	66	79	6	69	71	0	14	0.00			6.3	4.3	245		1		23
11	78	63	71	-2	58	67	0	6	0.00			7.3	6.7	8				22
12	78	62	70	-4	65	82	0	5	0.03			8.2	7.0	132		1		24
13	93	74	84	10	76	79	0	19	0.00			13.0	12.6	177	26	1 8		23
14	93	77	85	11	75	74	0	20	0.00			8.7	7.9	197	22	1		22
15	94	77	86	12	76	77	0	21	0.00			7.5	6.6	201		1 8		23
16	93	75	84	9	72	71	0	19	0.00			9.0	8.5	187		1 8		22
17	91	75	83	8	72	73	0	18	0.00			12.4	12.0	183	25	1 8		23
18	86	65	76	1	69	74	0	11	0.08			13.3	7.5	235	24	1		24
19	70	57	64	-11	53	69	1	0	0.00			9.5	8.8	343				24
20	82	54	68	-7	54	66	0	3	0.00			5.3	4.5	25				23
21	88	58	73	-3	56	59	0	8	0.00			3.9	0.9	114				22
22	91	65	78	2	62	60	0	13	0.00			5.0	4.6	148				22
23	93	67	80	4	65	62	0	15	0.00			8.6	7.9	173	22	1 8		24
24	93	67	80	4	68	69	0	15	0.00			7.4	6.8	182	25	1		24
25	94	73	84	7	71	71	0	19	0.01			5.7	0.4	125				24
26	92	72	82	5	72	73	0	17	0.00			7.1	5.7	169		1 3 8		24
27	93	74	84	7	70	67	0	19	0.00			10.2	9.9	183	24	1		22
28	92	72	82	5	73	82	0	17	0.10			7.5	4.2	196	18	1 3		24
29	83	71	77	-1	71	85	0	12	0.01			6.2	3.2	128		3		23
30	83	69	76	-2	71	89	0	11	0.11			4.7	4.3	65		1		24
31	88	72	80	2	69	79	0	15	0.00			5.8	2.4	238		1		23
AG/TL	85.5	66.2	75.8		66.1	75	9	352	2.45			8.0						
NORM	85.2	63.4	74.3				8	296	5.47									
DFN	+0.3	+2.8	+1.5				+1	+56	-3.02									

Temperature Data

AVERAGE MONTHLY 75.8
DEPARTURE FROM NORMAL +1.5
HIGHEST 94 ON 15
LOWEST 51 ON 2
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 13
MIN 32 OR BELOW 0
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 9
DEPARTURE FROM NORMAL +1
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 352
DEPARTURE FROM NORMAL +56

Precipitation Data

TOTAL FOR THE MONTH 2.45
DEPARTURE FROM NORMAL -3.02
GREATEST 24HR TOTAL 0.00
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 11
ò 0.10 INCH OR MORE PRECIP 6
ò 0.50 INCH OR MORE PRECIP 3
ò 1.00 INCH OR MORE PRECIP 0

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: June Year: 1995

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs

1	80	67	74	-4	68	85	0	9	0.01		5.8	3.0	130				22
2	92	66	79	0	68	70	0	14	0.00		6.5	5.4	182		1 8		24
3	92	70	81	2	71	73	0	16	0.00		4.8	3.2	148		1 8		24
4	94	70	82	3	69	65	0	17	0.00		5.7	5.0	59	17	1 8		23
5	95	73	84	5	70	66	0	19	0.00		4.3	2.4	47		1		23
6	94	74	84	4	70	65	0	19	0.00		8.4	7.7	205	20	1		24
7	95	73	84	4	73	71	0	19	0.00		7.9	7.0	208				24
8	96	73	85	5	73	70	0	20	0.00		7.3	6.5	178		1 8		24
9	98	77	88	8	74	68	0	23	0.00		7.8	7.0	189	17	1 8		24
10	94	73	84	4	72	73	0	19	0.10		7.1	3.5	229	35	3		24
11	82	66	74	-7	70	88	0	9	1.17		9.1	7.5	347	20	1		23
12	81	62	72	-9	59	70	0	7	0.00		8.9	8.4	353	23			24
13	85	61	73	-8	59	64	0	8	0.00		5.7	4.9	335	17			23
14	87	61	74	-7	61	64	0	9	0.00		4.3	3.6	118				24
15	89	63	76	-5	60	58	0	11	0.00		5.4	4.3	116				24
16	91	65	78	-3	61	57	0	13	0.00		5.7	5.3	96		1 8		23
17	91	70	81	0	61	55	0	16	0.00		7.8	7.7	78	21			23
18	92	65	79	-3	63	60	0	14	0.00		4.8	4.0	56				24
19	91	67	79	-3	63	61	0	14	0.00		5.0	4.2	13				23
20	91	68	80	-2	65	62	0	15	0.00		5.9	5.5	339		1 8		24
21	92	71	82	0	70	72	0	17	0.00		4.2	3.1	34		1 8		24
22	93	72	83	1	69	66	0	18	0.00		4.2	3.0	65		1 8		23
23	96	70	83	1	69	69	0	18	0.52		5.0	1.5	65	27	1 3 8		24
24	91	72	82	0	71	73	0	17	0.00		5.0	2.5	266	21	1 8		24
25	95	73	84	2	70	69	0	19	0.01		8.0	5.6	270	23	1 3 8		21
26	93	67	80	-3	64	60	0	15	0.00		6.5	5.5	293	19			24
27	95	68	82	-1	67	64	0	17	0.00		4.2	3.6	210				24
28	93	75	84	1	70	66	0	19	0.00 T		8.2	5.6	140				23
29	94	72	83	0	72	78	0	18	0.00 T		6.1	4.6	205	30	1 8		24
30	83	72	78	-5	71	83	0	13	0.05		6.1	4.2	202		1		23
AG/TL	91.2	69.2	80.2		67.4	68	0	462	1.86		6.2						
NORM	91.9	70.2	81.1				0	481	4.47								
DFN	-0.7	-1.0	-0.9				+0	-19	-2.61								

Temperature Data

AVERAGE MONTHLY	80.2
DEPARTURE FROM NORMAL	-0.9
HIGHEST 98 ON 9	
LOWEST 61 ON 13	
NUMBER OF DAYS WITH	
MAX 32 OR BELOW	0
MAX 90 OR ABOVE	23
MIN 32 OR BELOW	0
MIN 0 OR BELOW	0
HEATING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	0
DEPARTURE FROM NORMAL	0
COOLING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	462
DEPARTURE FROM NORMAL	-19

Precipitation Data

TOTAL FOR THE MONTH	1.86
DEPARTURE FROM NORMAL	-2.61
GREATEST 24HR TOTAL	1.57
NUMBER OF DAYS WITH	
ò 0.01 INCH OR MORE PRECIP	6
ò 0.10 INCH OR MORE PRECIP	3
ò 0.50 INCH OR MORE PRECIP	2
ò 1.00 INCH OR MORE PRECIP	1

T -- trace
M -- estimated; value may be less than actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: July Year: 1995

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	88	70	79	-4	71	79	0	14	0.35			6.2	5.7	44		8	24
2	90	69	80	-3	69	71	0	15	0.00			4.7	3.5	49		1 8	24
3	94	73	84	1	74	84	0	19	0.41			7.9	6.9	178	36	1 3 8	18
4	86	74	80	-3	76	89	0	15	1.21			11.8	10.9	181	36	1 3	22
5	80	68	74	-9	71	94	0	9	3.13			8.8	4.0	140	18	1 3	24
6	92	71	82	-1	74	79	0	17	0.00			4.3	2.9	302			24
7	94	73	84	1	74	76	0	19	0.00			3.8	2.5	34		1	24
8	96	74	85	2	76	74	0	20	0.00			4.6	1.8	350			24
9	96	78	87	4	75	69	0	22	0.00			8.1	7.1	280	20	8	23
10	98	76	87	4	76	73	0	22	0.00			3.3	0.5	207			24
11	96	78	87	4	76	74	0	22	0.00			3.9	2.1	48		1 8	24
12	97	74	86	3	76	74	0	21	0.00			2.8	2.1	86		1 8	23
13	96	79	88	5	77	74	0	23	0.00			5.8	2.5	121		1 8	23
14	95	73	84	1	74	80	0	19	0.02			4.0	2.6	121		1 3 8	24
15	93	73	83	-1	75	81	0	18	0.00			3.8	3.2	142		1 8	24
16	94	74	84	0	76	77	0	19	0.00			4.8	4.4	169			21
17	93	77	85	1	77	77	0	20	0.00			4.5	1.9	265		3 8	17
18	93	76	85	1	76	86	0	20	0.01			4.5	2.2	5	15	1 3	24
19	94	76	85	1	75	74	0	20	0.00			5.0	3.7	67			24
20	95	76	86	2	77	87	0	21	0.18			4.7	2.5	194		1 3 8	23
21	95	75	85	1	78	80	0	20	0.00			6.0	5.1	214		1	24
22	96	78	87	3	78	78	0	22	0.00			8.2	7.5	219	20	1	24
23	96	77	87	3	77	78	0	22	0.00			8.3	6.7	214	21		23
24	96	78	87	3	76	76	0	22	0.00			8.3	7.0	211	15		23
25	97	76	87	3	77	74	0	22	0.00			6.3	5.1	212			23
26	97	75	86	2	76	76	0	21	0.01			6.1	3.9	242	28	3	24
27	102	76	89	5	78	75	0	24	0.00			4.1	2.2	192			24
28	103	93	98	14	77	78	0	33	0.22			4.5	0.2	16	25	1 3	19
29	90E	73	82E	-2	75	83	0E	17E	0.08			7.0	6.3	65	14	3	21
30	91	74	83	-1	75	82	0	18	0.09			9.8	8.8	80	29	3	23
31	89	76	83	0	76	86	0	18	0.04			9.4	9.0	113	26		24
AG/TL	93.9	75.3	84.6		75.4	79	0	614	5.75			6.0					
NORM	94.3	72.7	83.5				0	574	3.50								
DFN	-0.4	+2.6	+1.1				+0	+40	+2.25								

Temperature Data

AVERAGE MONTHLY 84.6
DEPARTURE FROM NORMAL +1.1
HIGHEST 103 ON 28
LOWEST 68 ON 5
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0

Precipitation Data

TOTAL FOR THE MONTH 5.75
DEPARTURE FROM NORMAL +2.25
GREATEST 24HR TOTAL 0.00
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 12
ò 0.10 INCH OR MORE PRECIP 6

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime

```
 MAX 90 OR ABOVE            27     ò 0.50 INCH OR MORE PRECIP  2      7 = blowing dust or sand: visibility 1/2 mile or less
 MIN 32 OR BELOW             0     ò 1.00 INCH OR MORE PRECIP  2      8 = smoke or haze
 MIN  0 OR BELOW             0                                        9 = blowing snow
HEATING DEGREE DAYS (BASE 65)                                        x = tornado
 TOTAL THIS MONTH           0
  DEPARTURE FROM NORMAL     0    T -- trace                          obs -- number of hourly observations received
COOLING DEGREE DAYS (BASE 65)    M -- estimated;                            by the SRCC for that day
 TOTAL THIS MONTH          614         value may be less than
  DEPARTURE FROM NORMAL   +40         actual daily total             * -- values use Daily Normals calculated by SRCC
Preliminary Daily Summary:  SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month:          August      Year: 1995
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	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	90	75	83	-1	76	88	0	18	0.10			6.3	5.2	133	20		24
2	95	73	84	0	76	79	0	19	0.00			3.8	2.9	75		8	24
3	94	73	84	0	76	77	0	19	0.00 T			6.8	6.0	43	16	3	24
4	89	77	83	-1	76	85	0	18	0.08			8.6	4.6	322	21		24
5	93	75	84	1	77	89	0	19	0.40			6.1	3.9	174	26	1 3 8	23
6	95	75	85	2	77	80	0	20	0.00			6.8	6.6	178		1	24
7	94	76	85	2	76	83	0	20	0.00			6.9	5.8	189	26		24
8	96	75	86	3	74	75	0	21	0.00			6.0	4.9	197		1 8	23
9	98	71	85	2	75	76	0	20	0.00			4.0	1.2	81			23
10	95	74	85	2	76	78	0	20	0.00			4.2	3.7	97			24
11	96	74	85	2	76	77	0	20	0.00			3.3	2.8	135		1 8	24
12	100	74	87	4	77	75	0	22	0.00			2.9	1.0	127		1 8	24
13	96	75	86	3	76	80	0	21	0.00			5.1	3.1	211	27	8	23
14	95	73	84	1	75	80	0	19	0.00			4.8	3.6	199		1	24
15	96	71	84	1	75	77	0	19	0.00			3.6	2.8	143			24
16	101	73	87	4	75	70	0	22	0.00			2.7	1.0	150			24
17	102	77	90	8	75	66	0	25	0.00			2.4	0.4	117			24
18	99	80	90	8	75	62	0	25	0.00			3.3	3.1	67			24
19	97	80	89	7	77	70	0	24	0.00			4.2	3.7	61		1 8	22
20	100	80	90	8	75	67	0	25	0.00			4.6	2.5	344		1 3 8	24
21	97	77	87	5	74	74	0	22	0.02			6.8	4.9	28		1 3 8	24
22	92	77	85	3	75	74	0	20	0.00			7.5	7.0	50	19	1 8	24
23	93	77	85	3	71	68	0	20	0.00			8.5	8.1	50	20	1 8	24
24	95	74	85	3	70	66	0	20	0.00			6.5	6.0	41	15	8	23
25	95	74	85	3	72	69	0	20	0.00			5.9	5.3	42		1 8	24
26	97	76	87	6	73	69	0	22	0.00 T			5.0	3.5	32	13	3 8	23
27	97	73	85	4	72	67	0	20	0.00			4.3	3.2	36		1 8	24
28	98	75	87	6	70	64	0	22	0.00			5.4	4.3	44		1 8	24
29	100	76	88	7	71	61	0	23	0.00			5.4	3.8	61		8	23
30	101	73	87	6	72	66	0	22	0.00			3.5	2.3	140		8	24
31	100	71	86	5	70	65	0	21	0.00			3.3	1.9	45		8	24
AG/TL	96.3	75.0	85.7		74.4	73	0	648	0.60			5.1					
NORM	93.8	71.1	82.5				0	540	2.84								
DFN	+2.5	+3.9	+3.2				+0	+108	-2.24								

Temperature Data

AVERAGE MONTHLY	85.7
DEPARTURE FROM NORMAL	+3.2
HIGHEST 102 ON 17	
LOWEST 71 ON 9	
NUMBER OF DAYS WITH	
MAX 32 OR BELOW	0
MAX 90 OR ABOVE	30
MIN 32 OR BELOW	0
MIN 0 OR BELOW	0
HEATING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	0
DEPARTURE FROM NORMAL	0
COOLING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	648
DEPARTURE FROM NORMAL	+108

Precipitation Data

TOTAL FOR THE MONTH	0.60
DEPARTURE FROM NORMAL	-2.24
GREATEST 24HR TOTAL	0.00
NUMBER OF DAYS WITH	
ò 0.01 INCH OR MORE PRECIP	4
ò 0.10 INCH OR MORE PRECIP	2
ò 0.50 INCH OR MORE PRECIP	0
ò 1.00 INCH OR MORE PRECIP	0

T -- trace
M -- estimated; value may be less than actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: September Year: 1995

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	101	73	87	7	69	58	0	22	0.00			4.6	3.6	46		8	22
2	95	71	83	3	64	57	0	18	0.00			7.8	7.6	54			24
3	96	61	79	-1	59	54	0	14	0.00			5.0	4.2	66			24
4	77	65	71	-9	66	87	0	6	0.05			4.9	3.1	79	20	1 8	23
5	92	66	79	0	65	68	0	14	0.00			6.3	5.5	53		1	23
6	93	61	77	-2	59	61	0	12	0.00			4.5	3.7	72			24
7	93	59	76	-3	58	59	0	11	0.00			2.7	1.6	349		1	21
8	93	66	80	1	66	65	0	15	0.00			4.9	4.2	35		1	22
9	87	66	77	-2	63	66	0	12	0.00			9.0	8.6	44	20		23
10	85	59	72	-7	59	70	0	7	0.00			6.4	5.7	27	17	1 8	24
11	88	60	74	-4	60	66	0	9	0.00			4.8	2.3	23		1 8	20
12	95	61	78	0	63	68	0	13	0.00			4.8	1.1	320	19	1 8	22
13	95	65	80	2	68	72	0	15	0.00			4.7	2.6	350		1 8	24
14	90	72	81	3	70	73	0	16	0.00			4.9	4.4	32		8	23
15	96	71	84	7	71	73	0	19	0.00			4.1	2.2	131		1 8	24
16	100	75	88	11	73	71	0	23	0.00			6.0	3.4	222		1 8	23
17	78	71	75	-2	73	95	0	10	0.30			4.5	4.2	4		1 3 8	24
18	92	67	80	4	65	68	0	15	0.00			6.1	5.3	62		1 8	24
19	95	63	79	3	63	67	0	14	0.06			5.2	1.5	172	20	1 3 8	24
20	87	72	80	4	72	85	0	15	0.11			5.6	4.6	3		1	21
21	81	63	72	-4	68	91	0	7	1.26			7.6	7.0	13		1 3 8	22
22	63	51	57	-18	47	72	8	0	0.01			10.8	10.6	13	18	1	22
23	74	47	61	-14	42	57	4	0	0.00			7.3	6.9	35			21
24	80	50	65	-10	49	65	0	0	0.00			5.2	4.6	34			20
25	81	57	69	-5	55	66	0	4	0.00			4.4	3.1	19			19
26	83	54	69	-5	57	73	0	4	0.00			5.0	3.7	14			23
27	86	60	73	-1	59	68	0	8	0.00			2.9	1.4	47			21

28	89	59	74	1	60	69	0	9	0.00			3.7	3.2	84		22
29	90	60	75	3	61	66	0	10	0.00			4.3	4.1	130		24
30	90	61	76	4	64	72	0	11	0.00			4.3	3.6	153		23
AG/TL	88.2	62.9	75.6		62.3	69	12	333	1.79			5.4				
NORM	88.6	65.0	76.8				3	358	3.37							
DFN	-0.4	-2.1	-1.2				+9	-25	-1.58							

Temperature Data

AVERAGE MONTHLY	75.6
DEPARTURE FROM NORMAL	-1.2
HIGHEST 101 ON 1	
LOWEST 47 ON 23	
NUMBER OF DAYS WITH	
MAX 32 OR BELOW	0
MAX 90 OR ABOVE	16
MIN 32 OR BELOW	0
MIN 0 OR BELOW	0
HEATING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	12
DEPARTURE FROM NORMAL	+9
COOLING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	333
DEPARTURE FROM NORMAL	-25

Precipitation Data

TOTAL FOR THE MONTH	1.79
DEPARTURE FROM NORMAL	-1.58
GREATEST 24HR TOTAL	1.27
NUMBER OF DAYS WITH	
ò 0.01 INCH OR MORE PRECIP	6
ò 0.10 INCH OR MORE PRECIP	3
ò 0.50 INCH OR MORE PRECIP	1
ò 1.00 INCH OR MORE PRECIP	1

T -- trace
M -- estimated; value may be less than actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: October Year: 1995

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	93	69	81	9	69	74	0	16	0.00			3.8	2.6	148		1 8	23
2	89	63	76	4	66	74	0	11	0.40			5.5	4.7	161	21		22
3	75	64	70	-2	68	92	0	5	0.39			5.3	3.1	15			24
4	79	61	70	-1	62	83	0	5	0.00			7.8	7.2	360		1 8	24
5	89	55	72	2	59	66	0	7	0.00			6.6	5.1	262		1 8	23
6	76	52	64	-6	49	60	1	0	0.00			6.0	5.4	312			20
7	77	48	63	-6	48	70	2	0	0.00			3.7	3.0	339			24
8	79	47	63	-6	48	68	2	0	0.00			3.0	1.3	134			23
9	83	47	65	-4	52	71	0	0	0.00			1.5	1.3	107			24
10	86	52	69	1	54	68	0	4	0.00			4.0	3.1	49			24
11	88	57	73	5	57	64	0	8	0.00			4.8	3.5	62		1 8	24
12	85	55	70	2	62	75	0	5	0.00			3.8	3.5	94		1 8	24
13	80	68	74	7	69	86	0	9	0.00 T			3.2	0.8	179		1 8	24
14	75	48	62	-5	43	50	3	0	0.00			7.9	7.1	2		1	24
15	82	40	61	-5	41	56	4	0	0.00			2.3	1.6	313			23
16	88	46	67	1	48	61	0	2	0.00			2.8	2.2	184		8	24
17	85	48	67	1	50	64	0	2	0.00			3.5	3.1	140			24
18	85	49	67	1	53	69	0	2	0.00			3.9	3.4	122			22

19	84	54	69	3	61	76	0	4	0.00		4.0	3.5	179				22
20	72	45	59	-6	37	43	6	0	0.00		7.3	6.6	325				24
21	78	37	58	-6	36	49	7	0	0.00		4.3	3.2	223				24
22	80	41	61	-3	48	63	4	0	0.00		6.8	6.6	165	17			24
23	84	56	70	6	56	65	0	5	0.00		7.1	2.8	215				24
24	75	40	58	-5	35	40	7	0	0.00		5.9	5.4	8				24
25	79	38	59	-4	35	47	6	0	0.00	T	4.3	2.6	86				24
26	82	51	67	4	59	76	0	2	0.02		6.1	5.4	176		8		24
27	87	53	70	8	65	85	0	5	0.07		9.0	4.8	228	26	1	8	24
28	76	45	61	-1	41	62	4	0	0.00		4.2	3.4	346		1	8	24
29	67	45	56	-6	39	55	9	0	0.00		4.0	2.7	104				24
30	56	52	54	-7	50	86	11	0	0.07		4.8	4.7	136				24
31	79	55	67	6	59	78	0	2	0.00	T	5.0	4.4	127		1		23
AG/TL	80.4	51.0	65.7		52.2	67	66	94	0.95		4.9						
NORM	79.6	53.0	66.3				68	108	3.91								
DFN	+0.8	-2.0	-0.6				-2	-14	-2.96								

Temperature Data

AVERAGE MONTHLY 65.7
DEPARTURE FROM NORMAL -0.6
HIGHEST 93 ON 1
LOWEST 37 ON 21
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 1
MIN 32 OR BELOW 0
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 66
DEPARTURE FROM NORMAL -2
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 94
DEPARTURE FROM NORMAL -14

Precipitation Data

TOTAL FOR THE MONTH 0.95
DEPARTURE FROM NORMAL -2.96
GREATEST 24HR TOTAL 0.79
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 5
ò 0.10 INCH OR MORE PRECIP 2
ò 0.50 INCH OR MORE PRECIP 0
ò 1.00 INCH OR MORE PRECIP 0

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: November Year: 1995

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	72	65	69	8	66	95	0	4	0.26			6.8	6.2	161		1 3	24
2	85	56	71	10	66	84	0	6	0.00	T		7.3	2.7	328		1 3	24
3	56	38	47	-14	32	60	18	0	0.34			10.3	9.5	4	18	3	24
4	54	33	44	-17	27	52	21	0	0.00	T		6.6	6.4	44	17		23
5	52	44	48	-12	40	75	17	0	0.06			3.3	0.9	143		1	24
6	73	49	61	2	60	95	4	0	0.04			6.5	6.1	190		1	24
7	80	52	66	7	61	81	0	1	0.09			7.9	3.4	282	19		23
8	61	38	50	-8	38	69	15	0	0.00			3.6	3.3	52			24
9	71	35	53	-5	40	63	12	0	0.00			8.0	7.8	168	19		22

10	74	59	67	9	62	87	0	2	0.09		12.2	12.0	164	22	1		23
11	76	34	55	-2	36	63	10	0	0.21		10.0	8.1	327	29	3		24
12	63	30	47	-10	31	63	18	0	0.00		5.0	4.8	173				23
13	68	40	54	-3	45	74	11	0	0.00		7.0	1.7	353				24
14	58	35	47	-9	36	74	18	0	0.00		5.7	4.3	25				23
15	71	35	53	-3	40	67	12	0	0.00		9.0	0.5	133	21			24
16	57	34	46	-10	36	80	19	0	0.00		5.0	3.6	44		1	8	22
17	65	30	48	-7	39	78	17	0	0.00		2.2	1.1	83		1		23
18	73	38	56	1	43	73	9	0	0.00		2.5	0.5	252				24
19	75	39	57	2	46	71	8	0	0.00		3.0	2.1	104		1	8	23
20	73	53	63	8	56	80	2	0	0.00		3.1	1.0	59		1	8	24
21	66	35	51	-3	32	54	14	0	0.00		5.5	5.1	2				24
22	71	32	52	-2	33	56	13	0	0.00		6.5	6.4	169				22
23	70	49	60	6	51	77	5	0	0.00	T	10.0	2.5	2		1		24
24	57	34	46	-8	31	63	19	0	0.00		6.1	5.4	10				24
25	73	29	51	-2	35	65	14	0	0.00		4.8	3.6	191				23
26	72	42	57	4	49	73	8	0	0.00		10.7	10.3	175	23	1		23
27	79	54	67	14	56	67	0	2	0.00		13.5	7.3	236	26			23
28	54	32	43	-9	31	64	22	0	0.00		10.3	10.0	359	19			22
29	53	28	41	-11	30	78	24	0	0.00		4.7	3.8	359		1		23
30	63	25	44	-8	30	65	21	0	0.00		4.0	3.5	175				24
AG/TL	67.2	39.9	53.5		42.6	72	351	15	1.09		6.7						
NORM	67.7	44.6	56.2				282	16	4.45								
DFN	-0.5	-4.7	-2.7				+69	-1	-3.36								

Temperature Data

AVERAGE MONTHLY 53.5
DEPARTURE FROM NORMAL -2.7
HIGHEST 85 ON 2
LOWEST 25 ON 30
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 0
MIN 32 OR BELOW 7
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 351
DEPARTURE FROM NORMAL +69
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 15
DEPARTURE FROM NORMAL -1

Precipitation Data

TOTAL FOR THE MONTH 1.09
DEPARTURE FROM NORMAL -3.36
GREATEST 24HR TOTAL 0.34
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 7
ò 0.10 INCH OR MORE PRECIP 3
ò 0.50 INCH OR MORE PRECIP 0
ò 1.00 INCH OR MORE PRECIP 0

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: December Year: 1995

1	73	31	52	0	43	77	13	0	0.00		4.9	3.7	172				24
2	78	46	62	11	56	80	3	0	0.00		7.6	7.1	170		1 8		24
3	83	64	74	23	62	78	0	9	0.00	T	8.1	3.8	195	18	1 8		24
4	69	53	61	10	49	66	4	0	0.00		7.2	5.2	71	20			23
5	78	60	69	19	59	79	0	4	0.00		7.5	1.7	77	20	1 8		24
6	62	43	53	3	35	48	12	0	0.00		11.2	10.3	30	21			23
7	54	39	47	-3	31	58	18	0	0.00		10.8	9.9	30	21			24
8	50	42	46	-4	39	83	19	0	0.92		8.4	4.2	30	23	1 3		24
9	44	24	34	-16	18	56	31	0	0.00		11.8	11.3	7	26			23
10	36	18	27	-22	13	59	38	0	0.00		5.7	4.7	38				24
11	52	20	36	-13	22	61	29	0	0.00		4.7	3.7	147				24
12	60	39	50	1	41	68	15	0	0.00		6.3	6.1	151				23
13	75	55	65	16	56	75	0	0	0.00		10.7	10.4	174	25	1		23
14	78	57	68	19	60	80	0	3	0.00		8.9	8.3	184	19	1		24
15	76	52	64	16	62	92	1	0	0.30		7.3	4.4	166	19	1		23
16	64	52	58	10	55	95	7	0	0.37		9.2	8.5	41	21	1 8		22
17	66	57	62	14	60	98	3	0	0.97		6.0	3.9	102	21	1 2 3		24
18	63	49	56	8	59	97	9	0	1.48		9.3	1.5	176	32	1 3		23
19	49	42	46	-2	35	73	19	0	0.00	T	13.5	11.8	294	26			24
20	42	37	40	-8	30	71	25	0	0.00		7.9	7.6	360				24
21	41	36	39	-8	30	73	26	0	0.00		6.4	5.8	42				24
22	41	31	36	-11	28	77	29	0	0.00	T	6.1	5.6	40				23
23	43	30	37	-10	29	74	28	0	0.00		5.3	4.7	315		8		24
24	47	23	35	-12	25	73	30	0	0.00		4.0	2.3	272				24
25	60	28	44	-3	30	69	21	0	0.00		7.1	3.0	316	17			23
26	46	27	37	-9	28	77	28	0	0.00		4.5	3.1	295				24
27	52	30	41	-5	31	71	24	0	0.00		8.0	6.3	24	20			22
28	40	25	33	-13	23	71	32	0	0.00		8.3	7.5	36	23			23
29	46	23	35	-11	23	68	30	0	0.00		4.8	4.2	66				23
30	54	26	40	-6	38	87	25	0	0.03		4.6	4.1	134		1 8		24
31	69	54	62	16	58	96	3	0	0.32		6.5	6.3	166		1 8		24
AG/TL	57.8	39.1	48.5		39.6	75	522	16	4.39		7.5						
NORM	58.8	38.0	48.4				525	10	5.23								
DFN	-1.0	+1.1	+0.0				-3	+6	-0.84								

Temperature Data

AVERAGE MONTHLY 48.5
DEPARTURE FROM NORMAL +0.0
HIGHEST 83 ON 3
LOWEST 18 ON 10
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 0
MIN 32 OR BELOW 13
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 522
DEPARTURE FROM NORMAL -3
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 16
DEPARTURE FROM NORMAL +6

Precipitation Data

TOTAL FOR THE MONTH 4.39
DEPARTURE FROM NORMAL -0.84
GREATEST 24HR TOTAL 1.42
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 7
ò 0.10 INCH OR MORE PRECIP 6
ò 0.50 INCH OR MORE PRECIP 3
ò 1.00 INCH OR MORE PRECIP 1

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: January Year: 1996

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	60	49	55	9	53	98	10	0	0.89			6.6	4.8	33	23	1 2 3	24
2	49	39	44	-2	39	84	21	0	0.03			9.9	9.5	305	21	1	22
3	41	30	36	-10	30	76	29	0	0.00 T			8.1	5.8	270			23
4	58	31	45	-1	37	75	20	0	0.00			8.2	7.9	163	20		23
5	60	43	52	6	48	87	13	0	0.41			6.2	3.2	79		1 8	23
6	42	29	36	-10	32	89	29	0	0.46			12.8	12.5	352	25	1 8	23
7	32	21	27	-19	11	53	38	0	0.00			11.8	11.7	336	25		24
8	40	17	29	-16	14	57	36	0	0.00			6.5	0.9	150			23
9	64	29	47	2	28	60	18	0	0.00			5.3	4.3	218			22
10	60	29	45	0	34	70	20	0	0.00			4.3	3.8	148			23
11	63	44	54	9	43	69	11	0	0.01			9.0	5.1	278	24	8	23
12	64	37	51	6	29	54	14	0	0.00			6.4	5.3	315			24
13	75	33	54	9	34	54	11	0	0.00			5.8	5.1	216			24
14	74	41	58	13	47	70	7	0	0.00			8.0	7.5	175	20		24
15	73	52	63	17	56	81	2	0	0.00			5.7	4.9	160			23
16	72	55	64	18	58	83	1	0	0.00			8.8	8.6	170	23	1 2	23
17	76	60	68	22	58	75	0	3	0.00			13.5	13.3	165	34		24
18	68	23	46	0	34	71	19	0	0.21			17.2	11.7	271	38	1 8	22
19	37	20	29	-17	11	53	36	0	0.00			7.5	2.7	327		8	23
20	46	24	35	-11	29	77	30	0	0.16			6.0	3.9	119		1 8	24
21	47	30	39	-7	38	92	26	0	0.00			4.9	4.2	43		1 2 8	24
22	65	32	49	3	46	89	16	0	0.00			7.4	6.7	155	24	1 2	24
23	69	46	58	12	55	84	7	0	0.90			12.4	7.7	181	28	1 3	24
24	52	32	42	-4	29	65	23	0	0.00			7.7	5.5	338	20		24
25	58	27	43	-4	31	65	22	0	0.00			7.4	7.3	151			24
26	66	39	53	6	43	72	12	0	0.02			9.0	3.9	269	28	1	24
27	48	27	38	-9	18	51	27	0	0.00			6.8	3.7	356			24
28	51	25	38	-9	28	65	27	0	0.00			7.0	6.7	144			23
29	63	48	56	9	50	84	9	0	0.01			5.0	2.3	106			24
30	77	32	55	8	51	89	10	0	0.01			6.9	3.6	356	26	1 2	24
31	34	27	31	-17	22	75	34	0	0.00 T			11.9	10.3	32	20	1	24
AG/TL	57.5	34.5	46.0		36.6	73	578	3	3.11			8.2					
NORM	56.0	35.9	46.0				597	7	5.46								
DFN	+1.5	-1.4	+0.0				-19	-4	-2.35								

Temperature Data

AVERAGE MONTHLY 46.0
DEPARTURE FROM NORMAL +0.0
HIGHEST 77 ON 30
LOWEST 17 ON 8
NUMBER OF DAYS WITH
MAX 32 OR BELOW 1

Precipitation Data

TOTAL FOR THE MONTH 3.11
DEPARTURE FROM NORMAL -2.35
GREATEST 24HR TOTAL 0.92
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 11
ò 0.10 INCH OR MORE PRECIP 6

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime

MAX 90 OR ABOVE 0 ò 0.50 INCH OR MORE PRECIP 2
MIN 32 OR BELOW 18 ò 1.00 INCH OR MORE PRECIP 0
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 578
DEPARTURE FROM NORMAL -19
COOLING DEGREE DAYS (BASE 65) 3
TOTAL THIS MONTH 3
DEPARTURE FROM NORMAL -4

7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

T -- trace
M -- estimated; value may be less than actual daily total

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: February Year: 1996

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	32	27	30	-18	25	85	35	0	0.23			9.1	8.9	30		1 8	23
2	31	18	25	-23	20	81	40	0	0.22			12.9	12.7	12	24	1 3 8	24
3	28	14	21	-27	9	64	44	0	0.00			8.2	7.3	16			23
4	27	12	20	-28	8	62	45	0	0.00			6.5	3.1	12			24
5	37	16	27	-22	20	70	38	0	0.00			7.2	6.9	157			24
6	49	35	42	-7	35	75	23	0	0.00 T			6.0	5.5	140		1	24
7	68	48	58	9	47	73	7	0	0.00 T			10.5	10.4	173	20		24
8	75	50	63	14	54	79	2	0	0.00			8.7	8.4	205	20	1 8	23
9	74	53	64	14	58	86	1	0	0.00			5.5	4.0	197		1 8	24
10	77	58	68	18	59	82	0	3	0.00			9.0	8.6	217	20	1 8	24
11	64	46	55	5	27	34	10	0	0.00			12.8	11.9	335	26		24
12	58	32	45	-5	20	40	20	0	0.00			6.6	6.1	343	17		24
13	69	28	49	-2	26	48	16	0	0.00			7.6	7.0	210	22		23
14	77	46	62	11	41	51	3	0	0.00			8.2	7.5	221	16		24
15	59	42	51	0	39	60	14	0	0.00			8.5	6.3	23	17		24
16	46	25	36	-15	16	46	29	0	0.00			10.8	8.8	336	27		24
17	64	23	44	-8	23	51	21	0	0.00			7.0	6.1	220	18		24
18	66	32	49	-3	39	63	16	0	0.00			6.7	4.2	138			24
19	72	49	61	9	55	85	4	0	0.34			9.3	4.1	166	20	1 3	23
20	80	42	61	9	51	72	4	0	0.00			7.3	7.1	168	19	1 8	24
21	81	54	68	16	58	74	0	3	0.00			10.1	9.8	170		1 8	24
22	84	60	72	20	60	76	0	7	0.00			8.8	8.6	184		1 8	24
23	84	61	73	20	57	67	0	8	0.00			10.9	7.4	226	25	1 8	24
24	71	51	61	7	37	45	4	0	0.00			7.7	7.1	41	17		23
25	79	50	65	11	55	72	0	0	0.00			7.1	6.4	174		1 2 8	24
26	81	62	72	18	64	77	0	7	0.00			9.9	9.5	173	22	1	24
27	77	57	67	13	64	79	0	2	0.05			9.2	5.7	188			22
28	57	41	49	-6	33	64	16	0	0.39			13.4	13.2	6	27	1	24
29	43	35	39	-16	23	55	26	0	0.00 T			11.5	10.7	24	17		24
AG/TL	62.4	40.2	51.3		38.7	66	418	30	1.23			8.9					
NORM	61.9	40.0	51.0				400	6	4.34								
DFN	+0.5	+0.2	+0.3				+18	+24	-3.11								

Temperature Data

AVERAGE MONTHLY	51.3
DEPARTURE FROM NORMAL	+0.3
HIGHEST 84 ON 22	
LOWEST 12 ON 4	
NUMBER OF DAYS WITH	
MAX 32 OR BELOW	4
MAX 90 OR ABOVE	0
MIN 32 OR BELOW	10
MIN 0 OR BELOW	0
HEATING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	418
DEPARTURE FROM NORMAL	+18
COOLING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	30
DEPARTURE FROM NORMAL	+24

Precipitation Data

TOTAL FOR THE MONTH	1.23
DEPARTURE FROM NORMAL	-3.11
GREATEST 24HR TOTAL	0.45
NUMBER OF DAYS WITH	
ò 0.01 INCH OR MORE PRECIP	5
ò 0.10 INCH OR MORE PRECIP	4
ò 0.50 INCH OR MORE PRECIP	0
ò 1.00 INCH OR MORE PRECIP	0

T -- trace
M -- estimated; value may be less than actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: March Year: 1996

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	52	35	44	-11	27	61	21	0	0.00 T			4.3	1.5	108			24
2	68	31	50	-5	28	52	15	0	0.00			6.6	5.5	263	25		24
3	68	34	51	-4	33	52	14	0	0.00			6.1	4.3	83			24
4	78	37	58	3	43	57	7	0	0.00			10.0	9.7	162	25		23
5	74	62	68	13	62	82	0	3	0.04			11.9	11.7	178	27	1 8	24
6	83	44	64	8	62	78	1	0	0.06			13.0	6.1	244	27		24
7	47	34	41	-15	24	58	24	0	0.00 T			15.2	14.8	349	28		24
8	40	25	33	-24	7	37	32	0	0.00			10.7	9.8	355	20		24
9	45	18	32	-25	13	51	33	0	0.00			4.5	3.7	50			24
10	52	21	37	-20	19	51	28	0	0.00			4.3	4.0	65			24
11	59	28	44	-13	21	47	21	0	0.00			4.5	3.7	92			24
12	68	31	50	-8	25	42	15	0	0.00			6.0	5.7	164		8	23
13	77	48	63	5	49	67	2	0	0.00			9.9	9.5	176	24		24
14	78	58	68	10	59	74	0	3	0.00			10.9	10.6	179	24		24
15	81	62	72	14	60	70	0	7	0.00			7.9	7.1	210	20	8	23
16	84	58	71	13	50	55	0	6	0.00			6.8	3.5	256	17	1	24
17	80	59	70	11	47	51	0	5	0.07			7.1	5.4	61		1 3	23
18	61	43	52	-7	48	89	13	0	0.87			12.8	7.8	327	39	1 3	24
19	56	40	48	-11	29	54	17	0	0.00			17.1	16.5	313	38		24
20	52	33	43	-16	24	49	22	0	0.00			13.2	12.7	307	32		24
21	63	33	48	-12	25	47	17	0	0.00			7.0	6.4	307	20		24
22	72	33	53	-7	31	49	12	0	0.00			4.3	1.8	68			24
23	76	41	59	-1	40	50	6	0	0.00			10.2	9.6	163	30		24
24	73	57	65	5	58	77	0	0	0.38			14.3	13.8	160	30	1 3	24
25	65	48	57	-4	42	66	8	0	0.52			11.3	9.9	360	27	1 3	24
26	49	38	44	-17	33	66	21	0	0.00 T			14.1	13.5	36	24		24
27	53	44	49	-12	38	65	16	0	0.00			9.8	9.2	39			24

28	62	51	57	-4	47	75	8	0	0.00 T			7.2	5.4	283		1	24
29	67	48	58	-3	49	77	7	0	0.00			6.0	5.0	61		1 8	24
30	73	53	63	1	59	89	2	0	0.48			6.1	3.2	110		1 3	24
31	67	51	59	-3	48	72	6	0	0.00			11.3	10.8	336	21		22
AG/TL	65.3	41.9	53.6		38.7	62	368	24	2.42			9.2					
NORM	69.7	47.1	58.4				233	28	5.53								
DFN	-4.4	-5.2	-4.8				+135	-4	-3.11								

Temperature Data

AVERAGE MONTHLY 53.6
DEPARTURE FROM NORMAL -4.8
HIGHEST 84 ON 16
LOWEST 18 ON 9
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 0
MIN 32 OR BELOW 6
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 368
DEPARTURE FROM NORMAL +135
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 24
DEPARTURE FROM NORMAL -4

Precipitation Data

TOTAL FOR THE MONTH 2.42
DEPARTURE FROM NORMAL -3.11
GREATEST 24HR TOTAL 0.90
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 7
ò 0.10 INCH OR MORE PRECIP 4
ò 0.50 INCH OR MORE PRECIP 2
ò 1.00 INCH OR MORE PRECIP 0

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: April Year: 1996

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	67	44	56	-6	34	50	9	0	0.00			8.3	7.5	9			23
2	73	37	55	-8	36	52	10	0	0.00			4.8	3.8	152			22
3	73	46	60	-3	47	63	5	0	0.00			7.9	7.6	176			24
4	78	53	66	3	54	71	0	1	0.00 T			9.6	3.0	13	23	8	22
5	54	40	47	-16	38	80	18	0	0.28			12.3	11.7	23	25	1	24
6	57	40	49	-15	36	70	16	0	0.05			9.0	8.1	4	21	1	24
7	68	34	51	-13	35	61	14	0	0.00			4.3	3.8	161		1 8	23
8	80	48	64	0	44	56	1	0	0.00			9.0	1.1	326	22		23
9	65	45	55	-9	37	53	10	0	0.00			8.1	7.4	57			24
10	74	41	58	-6	37	47	7	0	0.00			5.8	4.4	119			24
11	80	54	67	3	56	69	0	2	0.00			10.2	9.8	175	21		24
12	78	58	68	3	60	77	0	3	1.03			11.6	7.2	173	21	3	24
13	81	56	69	4	60	81	0	4	0.06			5.7	3.2	163			23
14	73	62	68	3	63	89	0	3	0.57			8.1	3.2	185	22	1 3	22
15	66	47	57	-9	40	57	8	0	0.00			9.6	9.2	319	26		24
16	76	42	59	-7	42	60	6	0	0.00			5.1	4.2	190			22
17	73	48	61	-5	49	69	4	0	0.00			8.5	8.1	171			24
18	84	60	72	6	64	78	0	7	0.00 T			9.7	9.3	176			23

19	88	68	78	11	67	73	0	13	0.00		12.5	12.0	185	26		24
20	83	66	75	8	68	85	0	10	0.05		7.5	4.3	191	17	1 3	24
21	86	66	76	9	65	73	0	11	0.00		10.8	10.2	165	22		22
22	83	63	73	6	66	89	0	8	1.83		7.6	6.3	160		1 3	23
23	72	54	63	-4	52	67	2	0	0.00		8.9	6.7	345	19		21
24	76	49	63	-5	53	69	2	0	0.00		6.9	6.7	151			24
25	84	58	71	2	59	68	0	6	0.00		11.7	11.4	195	28		23
26	84	61	73	4	52	53	0	8	0.00		6.7	6.0	316		1 3	24
27	85	54	70	1	52	51	0	5	0.00		8.0	6.4	136			24
28	87	69	78	9	67	71	0	13	0.00		12.4	12.3	172	29		23
29	74	49	62	-8	54	77	3	0	0.45		12.3	9.0	311		1 3	24
30	72	45	59	-11	45	68	6	0	0.00		6.7	3.0	281			20
AG/TL	75.8	51.9	63.8		51.1	68	121	94	4.32		8.7					
NORM	77.7	54.1	65.9				74	100	4.77							
DFN	-1.9	-2.2	-2.1				+47	-6	-0.45							

Temperature Data

AVERAGE MONTHLY 63.8
DEPARTURE FROM NORMAL -2.1
HIGHEST 88 ON 19
LOWEST 34 ON 7
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 0
MIN 32 OR BELOW 0
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 121
DEPARTURE FROM NORMAL +47
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 94
DEPARTURE FROM NORMAL -6

Precipitation Data

TOTAL FOR THE MONTH 4.32
DEPARTURE FROM NORMAL -0.45
GREATEST 24HR TOTAL 1.83
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 8
ò 0.10 INCH OR MORE PRECIP 5
ò 0.50 INCH OR MORE PRECIP 3
ò 1.00 INCH OR MORE PRECIP 2

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: May Year: 1996

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)				
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	80	49	65	-5	52	66	0	0	0.00			7.9	7.4	179			24
2	81	57	69	-1	60	74	0	4	0.00			7.7	7.2	166			24
3	86	62	74	3	63	71	0	9	0.00			9.1	8.3	183		1	24
4	90	68	79	8	66	68	0	14	0.00			10.9	10.6	186			23
5	90	73	82	11	70	72	0	17	0.00			9.3	8.7	187			24
6	90	69	80	9	68	71	0	15	0.00			8.7	8.3	179		1	24
7	89	73	81	10	67	67	0	16	0.00			8.6	8.1	184			23
8	90	65	78	6	65	67	0	13	0.00	T		8.5	8.1	178		1	24
9	90	67	79	6	66	68	0	14	0.00			8.6	8.3	165		1	24

10	90	69	80	7	67	69	0	15	0.00		7.3	7.0	179		1		24
11	79	67	73	0	66	84	0	8	0.70		7.3	3.9	360		1 3		22
12	74	57	66	-8	57	75	0	1	0.00		6.2	5.3	55				23
13	72	64	68	-6	63	87	0	3	0.20		4.9	2.8	55		1 3		24
14	86	63	75	1	67	77	0	10	0.00		9.7	7.1	159		1 8		24
15	87	68	78	4	67	70	0	13	0.00		9.5	9.2	180		1 8		22
16	89	69	79	4	66	68	0	14	0.00		8.1	7.7	181	18			23
17	90	68	79	4	67	69	0	14	0.00		9.0	8.4	195		1		24
18	92	71	82	7	68	68	0	17	0.00		8.1	7.5	181		1		24
19	91	69	80	5	67	68	0	15	0.00		9.5	9.2	181	20	1 8		24
20	93	70	82	7	68	69	0	17	0.00		8.8	8.4	187		1 8		23
21	93	72	83	7	70	73	0	18	0.00		4.8	2.6	227				24
22	93	71	82	6	71	72	0	17	0.00		3.6	1.6	45				22
23	96	72	84	8	67	61	0	19	0.00		8.2	7.8	177				24
24	95	67	81	5	69	66	0	16	0.00		6.8	6.0	186				24
25	95	71	83	6	69	65	0	18	0.00		5.8	5.5	165		1		24
26	95	73	84	7	71	67	0	19	0.00		8.2	7.6	176		1 8		23
27	93	79	86	9	73	68	0	21	0.00		12.7	12.3	190	27			21
28	93	71	82	5	75	80	0	17	1.66		10.0	7.6	194		1 3		23
29	81	75	78	0	69	87	0	13	0.62		6.8	4.1	211	23	3		24
30	81	68	75	-3	65	76	0	10	0.00		6.5	5.6	40				22
31	83	67	75	-3	67	76	0	10	0.00		5.3	3.1	173				22
AG/TL	88.0	67.9	77.9		66.6	72	0	407	3.18		7.9						
NORM	85.2	63.4	74.3				8	296	5.47								
DFN	+2.8	+4.5	+3.6				-8	+111	-2.29								

Temperature Data

AVERAGE MONTHLY	77.9
DEPARTURE FROM NORMAL	+3.6
HIGHEST 96 ON 23	
LOWEST 49 ON 1	
NUMBER OF DAYS WITH	
MAX 32 OR BELOW	0
MAX 90 OR ABOVE	18
MIN 32 OR BELOW	0
MIN 0 OR BELOW	0
HEATING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	0
DEPARTURE FROM NORMAL	-8
COOLING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	407
DEPARTURE FROM NORMAL	+111

Precipitation Data

TOTAL FOR THE MONTH	3.18
DEPARTURE FROM NORMAL	-2.29
GREATEST 24HR TOTAL	2.28
NUMBER OF DAYS WITH	
ò 0.01 INCH OR MORE PRECIP	4
ò 0.10 INCH OR MORE PRECIP	4
ò 0.50 INCH OR MORE PRECIP	3
ò 1.00 INCH OR MORE PRECIP	1

T -- trace
M -- estimated; value may be less than actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: June Year: 1996

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs

1	84	69	77	-1	71	89	0	12	0.94		7.4	5.4	205		1 3 8		24
2	84	68	76	-3	68	81	0	11	0.00		5.2	3.0	358				24
3	89	65	77	-2	64	73	0	12	0.56		4.7	2.4	350	34	3		23
4	85	67	76	-3	68	78	0	11	0.00		4.0	1.9	197				24
5	89	68	79	0	69	75	0	14	0.00		6.7	6.4	187				24
6	88	71	80	0	70	76	0	15	0.00		6.7	6.2	186				23
7	85	69	77	-3	68	81	0	12	0.07		5.8	2.4	277		1 3 8		22
8	80	64	72	-8	63	78	0	7	0.00	T	7.8	7.5	327				23
9	80	61	71	-9	61	75	0	6	0.00		4.4	4.1	315				23
10	87	60	74	-6	64	70	0	9	0.00		6.0	5.6	221				23
11	86	70	78	-3	70	77	0	13	0.15		5.7	4.0	179				23
12	93	71	82	1	73	75	0	17	0.00		5.8	4.8	200		1		23
13	83	70	77	-4	71	88	0	12	0.17		3.5	1.4	174		3		23
14	90	70	80	-1	73	87	0	15	0.31		2.8	2.0	155		1 3 8		24
15	92	71	82	1	74	83	0	17	0.00		3.2	2.0	162		1		24
16	93	72	83	2	74	79	0	18	0.00		1.5	0.9	77	17	1		24
17	96	72	84	3	74	75	0	19	0.00		3.0	2.6	132		1		24
18	95	70	83	1	73	90	0	18	1.44		3.6	2.4	202	20	1 3		23
19	92	68	80	-2	72	88	0	15	1.76		4.8	3.1	178	15	1 2 3 8		23
20	89	71	80	-2	74	87	0	15	0.20		2.9	2.1	343		1 3		22
21	93	75	84	2	76	82	0	19	0.00		2.2	2.1	161		1 8		23
22	93	74	84	2	75	80	0	19	0.00		4.9	4.7	182	20			22
23	92	74	83	1	74	82	0	18	0.00		5.4	5.2	184				23
24	91	72	82	0	73	84	0	17	0.00	T	3.6	3.3	168				22
25	92	72	82	0	75	92	0	17	0.40		2.7	1.4	182				23
26	93	74	84	1	76	81	0	19	0.00	T	2.9	1.1	155				22
27	90	72	81	-2	75	80	0	16	0.00		4.1	3.5	17				24
28	92	68	80	-3	71	77	0	15	0.00		3.2	2.5	70		1 8		23
29	94	71	83	0	73	77	0	18	0.00		1.6	1.3	176		1 8		23
30	96	74	85	2	74	75	0	20	0.00		1.3	0.9	23		1 8		16
AG/TL	89.5	69.8	79.7		71.2	81	0	446	6.00		4.2						
NORM	91.9	70.2	81.1				0	481	4.47								
DFN	-2.4	-0.4	-1.4				+0	-35	+1.53								

Temperature Data

AVERAGE MONTHLY 79.7
DEPARTURE FROM NORMAL -1.4
HIGHEST 96 ON 17
LOWEST 60 ON 10
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 17
MIN 32 OR BELOW 0
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 0
DEPARTURE FROM NORMAL 0
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 446
DEPARTURE FROM NORMAL -35

Precipitation Data

TOTAL FOR THE MONTH 6.00
DEPARTURE FROM NORMAL +1.53
GREATEST 24HR TOTAL 0.56
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 10
ò 0.10 INCH OR MORE PRECIP 9
ò 0.50 INCH OR MORE PRECIP 4
ò 1.00 INCH OR MORE PRECIP 2

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: July Year: 1996

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	95	73	84	1	73	74	0	19	0.00			1.9	1.3	200		8	21
2	96	73	85	2	74	77	0	20	0.00			3.4	1.7	245		8	23
3	98	74	86	3	74	68	0	21	0.00			4.5	3.2	10		8	19
4	92	69	81	-2	66	63	0	16	0.00			3.9	3.2	52			24
5	85	69	77	-6	69	75	0	12	0.00 T			2.1	0.7	322			21
6	94	73	84	1	75	85	0	19	0.02			2.5	2.3	181		8	20
7	98	76	87	4	77	75	0	22	0.00			5.5	4.8	194		8	24
8	95	76	86	3	77	82	0	21	0.02			5.9	5.1	200		3	23
9	94	71	83	0	76	88	0	18	2.22			5.3	1.1	344		3	23
10	86	71	79	-4	69	77	0	14	0.00			6.0	5.8	32			23
11	91	67	79	-4	70	75	0	14	0.00			3.8	2.9	34			23
12	92	69	81	-2	73	81	0	16	0.00 T			2.8	2.5	356			22
13	87	74	81	-2	76	86	0	16	0.25			2.3	1.2	31		3 8	22
14	87	74	81	-2	76	94	0	16	0.40			5.4	5.0	189			19
15	90	72	81	-3	76	91	0	16	0.02			3.0	1.8	179		3 8	23
16	92	73	83	-1	76	90	0	18	0.01			3.8	3.1	180			21
17	91	73	82	-2	76	86	0	17	0.00			4.2	3.9	159			23
18	93	74	84	0	77	87	0	19	0.00			4.8	3.5	192			21
19	94	74	84	0	77	86	0	19	0.00			4.7	4.0	196		3	22
20	94	74	84	0	76	78	0	19	0.00			5.2	4.4	212			23
21	95	76	86	2	75	75	0	21	0.00			6.3	5.9	212			24
22	96	77	87	3	76	76	0	22	0.00			6.8	6.2	232			20
23	91	73	82	-2	74	81	0	17	0.23			5.9	1.0	287	35	3	22
24	84	73	79	-5	74	91	0	14	0.33			6.0	3.8	207		3	24
25	87	71	79	-5	74	89	0	14	0.17			3.3	2.0	207			23
26	89	71	80	-4	74	86	0	15	0.00			3.2	2.6	160		1 2	23
27	90	68	79	-5	73	89	0	14	0.31			4.2	3.2	190		2 3	23
28	92	72	82	-2	75	86	0	17	0.05			2.6	1.9	177	18		24
29	92	71	82	-2	75	85	0	17	0.00			4.0	3.6	183			24
30	91	72	82	-2	75	89	0	17	0.06			5.5	3.9	177		3	22
31	85	73	79	-4	75	94	0	14	0.47			3.0	0.9	228		3	24
AG/TL	91.5	72.5	82.0		74.3	83	0	534	4.56			4.3					
NORM	94.3	72.7	83.5				0	574	3.50								
DFN	-2.8	-0.2	-1.5				+0	-40	+1.06								

Temperature Data

AVERAGE MONTHLY 82.0
DEPARTURE FROM NORMAL -1.5
HIGHEST 98 ON 3
LOWEST 67 ON 11
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0

Precipitation Data

TOTAL FOR THE MONTH 4.56
DEPARTURE FROM NORMAL +1.06
GREATEST 24HR TOTAL 2.22
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 14
ò 0.10 INCH OR MORE PRECIP 8

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime

```
 MAX 90 OR ABOVE            23     ò 0.50 INCH OR MORE PRECIP  1      7 = blowing dust or sand: visibility 1/2 mile or less
 MIN 32 OR BELOW             0     ò 1.00 INCH OR MORE PRECIP  1      8 = smoke or haze
 MIN  0 OR BELOW             0                                        9 = blowing snow
HEATING DEGREE DAYS (BASE 65)                                        x = tornado
 TOTAL THIS MONTH           0
  DEPARTURE FROM NORMAL     0    T -- trace                          obs -- number of hourly observations received
COOLING DEGREE DAYS (BASE 65)    M -- estimated;                            by the SRCC for that day
 TOTAL THIS MONTH          534         value may be less than
  DEPARTURE FROM NORMAL    -40         actual daily total           * -- values use Daily Normals calculated by SRCC
Preliminary Daily Summary:  SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month:          August      Year: 1996
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	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	89	74	82	-2	75	88	0	17	0.01			2.6	1.7	158		3	22
2	91	69	80	-4	76	90	0	15	0.78			4.7	0.5	130		3	23
3	81	71	76	-8	74	95	0	11	0.87			2.8	1.8	181		3	23
4	91	72	82	-2	76	85	0	17	0.00			4.5	3.6	183		8	24
5	94	73	84	1	76	83	0	19	0.00			3.6	3.1	175			23
6	92	74	83	0	76	86	0	18	0.05			3.3	3.0	149	15		23
7	93	72	83	0	75	83	0	18	0.00			1.7	1.6	115			22
8	94	73	84	1	76	81	0	19	1.50			3.4	0.7	187	14	3	23
9	90	75	83	0	77	90	0	18	0.03			4.4	3.1	359		3	23
10	87	72	80	-3	70	75	0	15	0.00			4.2	3.7	57			22
11	82	70	76	-7	73	92	0	11	0.42			4.0	2.0	236			23
12	84	70	77	-6	72	89	0	12	0.15			3.8	1.5	307	28		24
13	89	69	79	-4	70	81	0	14	0.00			4.3	4.0	26			23
14	89	68	79	-4	68	79	0	14	0.00			3.2	3.0	24		8	22
15	91	65	78	-5	69	77	0	13	0.00			0.9	0.3	49		8	23
16	92	68	80	-3	70	78	0	15	0.00			1.4	1.3	168		8	23
17	92	68	80	-2	72	81	0	15	0.00 T			2.3	1.9	184		8	22
18	93	69	81	-1	72	81	0	16	0.00			1.3	1.2	168		8	22
19	93	70	82	0	73	82	0	17	0.00			2.5	1.9	126		8	22
20	94	71	83	1	73	76	0	18	0.00			3.0	2.8	97	17		22
21	93	71	82	0	72	74	0	17	0.00			4.8	4.4	87			22
22	91	73	82	0	72	80	0	17	0.00			4.0	3.9	69		8	22
23	91	72	82	0	73	79	0	17	0.00			2.1	1.7	146		8	22
24	95	69	82	0	71	76	0	17	0.00			1.1	0.4	175		8	22
25	92	70	81	-1	72	82	0	16	0.00 T			2.3	0.1	275		8	22
26	93	72	83	2	72	75	0	18	0.00 T			5.2	3.8	222			23
27	92	72	82	1	73	84	0	17	0.57			3.9	2.0	213	21	3 5	22
28	85	73	79	-2	73	91	0	14	0.07			4.7	3.2	236		3	22
29	76	73	75	-6	74	97	0	10	2.65			3.7	2.6	307			23
30	85	71	78	-3	72	89	0	13	0.04			4.3	3.9	48			22
31	78	68	73	-8	68	86	0	8	0.00 T			5.8	5.6	67	16		21
AG/TL	89.4	70.9	80.2		72.7	83	0	476	7.14			3.3					
NORM	93.8	71.1	82.5				0	540	2.84								
DFN	-4.4	-0.2	-2.3				+0	-64	+4.30								

Temperature Data

AVERAGE MONTHLY	80.2
DEPARTURE FROM NORMAL	-2.3
HIGHEST 95 ON 24	
LOWEST 65 ON 15	
NUMBER OF DAYS WITH	
MAX 32 OR BELOW	0
MAX 90 OR ABOVE	20
MIN 32 OR BELOW	0
MIN 0 OR BELOW	0
HEATING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	0
DEPARTURE FROM NORMAL	0
COOLING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	476
DEPARTURE FROM NORMAL	-64

Precipitation Data

TOTAL FOR THE MONTH	7.14
DEPARTURE FROM NORMAL	+4.30
GREATEST 24HR TOTAL	2.65
NUMBER OF DAYS WITH	
ò 0.01 INCH OR MORE PRECIP	12
ò 0.10 INCH OR MORE PRECIP	7
ò 0.50 INCH OR MORE PRECIP	5
ò 1.00 INCH OR MORE PRECIP	2

T -- trace
M -- estimated; value may be less than actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: September Year: 1996

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	75	67	71	-9	68	90	0	6	0.01			4.4	4.1	52			23
2	86	69	78	-2	70	84	0	13	0.00			2.0	1.3	350		1 8	22
3	87	67	77	-3	70	84	0	12	0.00			3.4	2.6	351		1 2	21
4	89	68	79	-1	70	81	0	14	0.00			2.9	2.5	16			24
5	89	69	79	0	72	82	0	14	0.00			3.9	3.6	22		8	22
6	92	68	80	1	71	81	0	15	0.00			2.1	1.8	330			22
7	94	68	81	2	71	77	0	16	0.00			1.0	0.9	286			24
8	93	72	83	4	73	79	0	18	0.00			3.6	3.2	204			22
9	92	69	81	2	71	78	0	16	0.00 T			3.1	2.6	353			22
10	91	69	80	1	68	77	0	15	0.00			3.4	3.2	19			23
11	89	67	78	0	69	76	0	13	0.00			4.0	3.7	10		8	23
12	91	66	79	1	67	75	0	14	0.00			2.7	2.1	327		8	24
13	83	64	74	-4	61	69	0	9	0.00			5.7	5.5	43			23
14	88	62	75	-3	64	72	0	10	0.00			4.4	4.1	76			24
15	90	69	80	3	73	88	0	15	0.65			6.9	6.4	165		3 8	23
16	95	69	82	5	72	75	0	17	0.00			9.7	6.2	256	27		22
17	83	63	73	-4	65	82	0	8	0.00			5.6	4.4	18			21
18	84	60	72	-4	63	75	0	7	0.00			5.3	5.0	55			22
19	85	63	74	-2	63	71	0	9	0.00			4.2	3.4	92			23
20	80	65	73	-3	68	90	0	8	0.57			4.8	2.7	149		3	22
21	83	64	74	-2	67	83	0	9	0.37			5.5	3.3	355			20
22	86	57	72	-3	60	74	0	7	0.00			1.3	1.1	187		1	15
23	90	56	73	-2	60	69	0	8	0.00			4.6	4.3	172			21
24	87	64	76	1	67	82	0	11	0.00			3.0	1.4	174			24
25	88	67	78	4	67	79	0	13	0.00			4.3	2.8	120			22
26	89	67	78	4	71	82	0	13	0.31			8.2	7.6	169		3	19
27	76	57	67	-7	67	94	0	2	1.51			7.8	1.3	260	19	3	23

28	73	52	63	-10	51	75	2	0	0.00			5.6	5.4	357	23
29	76	50	63	-9	51	71	2	0	0.00			4.0	3.9	46	22
30	80	50	65	-7	53	70	0	0	0.00			4.5	4.2	38	23
AG/TL	86.1	63.9	75.0		66.1	79	4	312	3.42			4.4			
NORM	88.6	65.0	76.8				3	358	3.37						
DFN	-2.5	-1.1	-1.8				+1	-46	+0.05						

Temperature Data

AVERAGE MONTHLY 75.0
DEPARTURE FROM NORMAL -1.8
HIGHEST 95 ON 16
LOWEST 50 ON 29
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 9
MIN 32 OR BELOW 0
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 4
DEPARTURE FROM NORMAL +1
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 312
DEPARTURE FROM NORMAL -46

Precipitation Data

TOTAL FOR THE MONTH 3.42
DEPARTURE FROM NORMAL +0.05
GREATEST 24HR TOTAL 1.51
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 6
ò 0.10 INCH OR MORE PRECIP 5
ò 0.50 INCH OR MORE PRECIP 3
ò 1.00 INCH OR MORE PRECIP 1

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: October Year: 1996

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	81	58	70	-2	69	94	0	5	0.00			3.0	2.3	40		1 2 8	22
2	83	72	78	6	72	88	0	13	0.00			5.0	4.5	62		8	21
3	75	64	70	-2	66	90	0	5	0.00			7.1	6.8	20		8	24
4	70	63	67	-4	62	86	0	2	0.00			6.8	6.6	38		8	24
5	76	62	69	-1	60	76	0	4	0.00			7.2	7.0	58			24
6	79	61	70	0	59	72	0	5	0.00			7.2	7.0	53			24
7	80	58	69	0	60	78	0	4	0.00			6.4	6.1	16			23
8	82	58	70	1	60	77	0	5	0.00			5.8	5.2	338			24
9	80	58	69	0	57	75	0	4	0.00			3.1	2.5	282		1 2 8	23
10	75	51	63	-5	49	61	2	0	0.00			6.8	6.1	4	16		20
11	73	45	59	-9	46	70	6	0	0.00			3.3	2.9	55			21
12	78	44	61	-7	48	72	4	0	0.00			2.0	1.6	137			24
13	81	47	64	-3	53	76	1	0	0.00			0.8	0.6	152			24
14	83	50	67	0	56	75	0	2	0.00			1.2	0.3	160			23
15	82	51	67	1	55	72	0	2	0.00			2.1	1.1	69			22
16	82	54	68	2	58	76	0	3	0.00			3.4	3.1	148		8	22
17	87	64	76	10	69	84	0	11	0.04			8.3	5.5	185	18	3 8	18
18	68	42	55	-11	40	58	10	0	0.00			7.4	7.2	5	22		22

19	73	37	55	-11	41	67	10	0	0.00		2.1	1.5	146			19
20	77	45	61	-4	54	75	4	0	0.00		5.4	5.1	168			21
21	87	64	76	12	64	73	0	11	0.00	T	8.3	8.1	175			22
22	70	43	57	-7	51	84	8	0	0.26		9.6	5.9	248	25		21
23	74	42	58	-6	42	65	7	0	0.00		5.8	5.6	226			20
24	73	39	56	-7	46	78	9	0	0.06		2.9	1.3	186			23
25	71	55	63	0	63	95	2	0	1.99		4.7	3.3	136	20	8	20
26	78	64	71	8	71	94	0	6	0.01		4.4	2.1	122			20
27	86	72	79	17	73	88	0	14	0.00		4.3	4.0	168			21
28	84	66	75	13	70	85	0	10	0.00		4.0	3.0	205		8	23
29	83	64	74	12	67	81	0	9	0.00	T	6.7	6.0	201		1 2 8	22
30	79	54	67	6	57	70	0	2	0.00		4.5	2.5	304			21
31	80	50	65	4	57	74	0	0	0.00		3.9	3.0	114			21
AG/TL	78.4	54.7	66.6		57.9	78	63	117	2.36		5.0					
NORM	79.6	53.0	66.3				68	108	3.91							
DFN	-1.2	+1.7	+0.2				-5	+9	-1.55							

Temperature Data

AVERAGE MONTHLY 66.6
DEPARTURE FROM NORMAL +0.2
HIGHEST 87 ON 17
LOWEST 37 ON 19
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 0
MIN 32 OR BELOW 0
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 63
DEPARTURE FROM NORMAL -5
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 117
DEPARTURE FROM NORMAL +9

Precipitation Data

TOTAL FOR THE MONTH 2.36
DEPARTURE FROM NORMAL -1.55
GREATEST 24HR TOTAL 1.99
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 5
ò 0.10 INCH OR MORE PRECIP 2
ò 0.50 INCH OR MORE PRECIP 1
ò 1.00 INCH OR MORE PRECIP 1

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: November Year: 1996

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	73	47	60	-1	57	92	5	0	0.10			7.4	2.7	322			17
2	62	41	52	-9	39	72	13	0	0.00			5.6	5.1	355			21
3	60	36	48	-13	35	70	17	0	0.00			4.5	3.6	54			23
4	69	38	54	-7	46	81	11	0	0.00			3.8	3.6	145			15
5	80	56	68	8	57	83	0	3	0.00			3.4	3.0	144			17
6	80	55	68	9	63	89	0	3	0.00			6.1	5.8	155		1 2 8	17
7	74	53	64	5	60	87	1	0	0.53			9.8	2.7	286	37	3	19
8	63	43	53	-5	39	62	12	0	0.00			8.2	7.0	304	26		19
9	64	37	51	-7	35	58	14	0	0.00			4.7	3.5	244			19

10	56	41	49	-9	37	64	16	0	0.00		5.9	3.6	43				23
11	60	39	50	-7	37	66	15	0	0.00		4.9	4.6	56				23
12	60	46	53	-4	40	68	12	0	0.00	T	5.7	5.5	47				20
13	73	40	57	0	48	78	8	0	0.00		2.9	1.4	186				20
14	74	45	60	4	51	84	5	0	0.00		4.1	2.2	87		8		19
15	73	48	61	5	51	75	4	0	0.00		5.2	4.0	96				22
16	67	55	61	5	52	71	4	0	0.00		10.1	9.8	131	20			20
17	71	60	66	11	62	92	0	1	0.58		6.0	2.2	109				24
18	60	55	58	3	56	96	7	0	0.01		3.3	3.1	8				19
19	65	57	61	6	60	96	4	0	0.00	T	3.0	1.9	135		1 2 8		21
20	76	64	70	15	65	89	0	5	0.00		5.6	5.2	176		8		22
21	74	55	65	11	60	85	0	0	0.00		8.0	3.5	19	24			22
22	56	40	48	-6	42	76	17	0	0.00		8.6	8.5	44	19			23
23	66	40	53	-1	49	83	12	0	0.00		3.0	2.7	144				23
24	76	62	69	15	62	82	0	4	0.29		8.7	7.7	139	18			23
25	66	42	54	1	43	90	11	0	0.01		11.0	7.7	269	20			22
26	48	35	42	-11	36	80	23	0	0.00		7.6	6.7	3				23
27	49	32	41	-12	30	69	24	0	0.00		8.5	8.3	39	16			24
28	56	32	44	-8	35	73	21	0	0.00		3.5	3.1	39				23
29	67	49	58	6	55	88	7	0	0.51		9.5	8.7	153	22			23
30	74	55	65	13	63	92	0	0	2.11		8.0	5.8	214	25			22
AG/TL	66.4	46.6	56.5		48.8	80	263	16	4.14		6.2						
NORM	67.7	44.6	56.2				282	16	4.45								
DFN	-1.3	+2.0	+0.3				-19	+0	-0.31								

Temperature Data

AVERAGE MONTHLY 56.5
DEPARTURE FROM NORMAL +0.3
HIGHEST 80 ON 5
LOWEST 32 ON 27
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 0
MIN 32 OR BELOW 2
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 263
DEPARTURE FROM NORMAL -19
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 16
DEPARTURE FROM NORMAL 0

Precipitation Data

TOTAL FOR THE MONTH 4.14
DEPARTURE FROM NORMAL -0.31
GREATEST 24HR TOTAL 2.28
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 8
ò 0.10 INCH OR MORE PRECIP 6
ò 0.50 INCH OR MORE PRECIP 4
ò 1.00 INCH OR MORE PRECIP 1

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: December Year: 1996

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)				
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs

1	64	36	50	-2	38	78	15	0	0.00		7.2	6.4	286	21		24
2	58	32	45	-6	35	74	20	0	0.00		4.3	4.2	172			24
3	63	39	51	0	41	73	14	0	0.00		3.5	1.2	349			24
4	53	42	48	-3	40	71	17	0	0.00		4.4	3.2	68			23
5	68	50	59	9	38	56	6	0	0.00	T	8.0	5.3	221	25		24
6	79	45	62	12	56	78	3	0	0.00		9.4	9.2	216	29		21
7	66	46	56	6	44	65	9	0	0.00		6.4	4.5	333	14		23
8	66	35	51	1	30	49	14	0	0.00		4.5	3.8	303			22
9	71	37	54	4	33	49	11	0	0.00		6.0	5.8	197			22
10	77	52	65	16	51	63	0	0	0.00		10.6	10.4	199	26		24
11	79	67	73	24	64	76	0	8	0.00		11.0	10.9	202	24		23
12	80	56	68	19	61	77	0	3	0.00		7.3	2.3	233			22
13	60	48	54	5	51	88	11	0	0.00		6.9	6.8	42		1	21
14	72	49	61	12	54	82	4	0	0.00	T	4.1	3.5	141		1 2	23
15	67	43	55	7	55	89	10	0	1.41		6.4	0.4	16		1 2	17
16	43	33	38	-10	35	98	27	0	1.88		6.2	5.9	275			6
17	44	35	40	-8	35	87	25	0	0.00	T	3.9	2.7	294		8	22
18	35	26	31	-17	19	62	34	0	0.00	T	10.5	10.0	317	21		21
19	37	20	29	-19	14	57	36	0	0.00		7.1	6.7	283			20
20	42	19	31	-17	19	68	34	0	0.00		2.7	2.5	150			22
21	59	30	45	-2	30	56	20	0	0.00		8.0	7.9	158	22		24
22	67	53	60	13	53	76	5	0	0.00	T	11.6	11.2	176	26		23
23	73	58	66	19	60	80	0	1	0.01		11.7	9.2	183	27		22
24	58	29	44	-3	32	73	21	0	0.02		9.4	8.6	351	22		23
25	47	26	37	-10	27	71	28	0	0.00		5.0	4.3	43			22
26	49	39	44	-2	41	85	21	0	0.16		5.0	2.8	88			22
27	57	48	53	7	52	98	12	0	0.00		1.7	1.3	354		1 2	19
28	74	55	65	19	64	96	0	0	0.07		5.2	5.1	173		1 2	23
29	73	57	65	19	63	91	0	0	0.30		3.4	2.3	135		1 3	23
30	74	55	65	19	61	92	0	0	0.00		3.1	0.9	20		1 2	24
31	65	60	63	17	63	99	2	0	0.01		4.1	3.8	36		1 2	24
AG/TL	61.9	42.6	52.2		43.8	76	399	12	3.86		6.4					
NORM	58.8	38.0	48.4				525	10	5.23							
DFN	+3.1	+4.6	+3.8				-126	+2	-1.37							

Temperature Data

AVERAGE MONTHLY 52.2
DEPARTURE FROM NORMAL +3.8
HIGHEST 80 ON 12
LOWEST 19 ON 20
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 0
MIN 32 OR BELOW 7
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 399
DEPARTURE FROM NORMAL -126
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 12
DEPARTURE FROM NORMAL +2

Precipitation Data

TOTAL FOR THE MONTH 3.86
DEPARTURE FROM NORMAL -1.37
GREATEST 24HR TOTAL 1.37
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 8
ò 0.10 INCH OR MORE PRECIP 4
ò 0.50 INCH OR MORE PRECIP 2
ò 1.00 INCH OR MORE PRECIP 2

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: January Year: 1997

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	69	55	62	16	58	94	3	0	0.00 T			2.1	0.9	183		2	23
2	75	55	65	19	60	88	0	0	0.00			4.7	4.4	206		1 2	23
3	77	62	70	24	64	82	0	5	0.00			9.7	9.5	189	21		22
4	80	58	69	23	64	78	0	4	0.73			11.4	10.5	200	25		21
5	62	49	56	10	45	66	9	0	0.00			5.0	4.4	340			15
6	54	37	46	0	39	92	19	0	0.18			8.4	8.2	13			12
7	39	35	37	-9	29	73	28	0	0.30			10.0	9.6	31			20
8	37	35	36	-9	34	89	29	0	0.51			8.3	6.8	29			22
9	40	33	37	-8	31	80	28	0	0.00 T			7.9	7.1	251	25		17
10	47	28	38	-7	27	69	27	0	0.00			7.7	4.7	325	19		23
11	31	19	25	-20	13	58	40	0	0.00			7.1	6.9	29			24
12	31	25	28	-17	17	66	37	0	0.02			9.3	9.1	34	22		17
13	29	25	27	-18	14	57	38	0	0.02			8.3	8.2	29			7
14	33	26	30	-15	19	64	35	0	0.00			8.0	7.2	43			24
15	51	33	42	-4	31	68	23	0	0.81			7.0	3.4	259	26		24
16	44	26	35	-11	20	57	30	0	0.00			9.0	8.0	358	24		24
17	35	20	28	-18	12	55	37	0	0.00			4.0	2.1	6			23
18	44	20	32	-14	17	55	33	0	0.00			4.2	1.8	191			24
19	61	32	47	1	30	62	18	0	0.00			3.8	2.2	226			24
20	71	32	52	6	45	76	13	0	0.00			3.9	3.5	221			24
21	59	53	56	10	54	89	9	0	0.07			6.7	6.5	168		8	24
22	76	50	63	17	54	74	2	0	0.39			7.6	6.6	223	23		24
23	56	47	52	6	49	91	13	0	3.48			6.3	3.8	33	41	3	22
24	76	53	65	19	53	70	0	0	0.14			10.2	6.4	250	26	3	24
25	54	41	48	1	37	70	17	0	0.00			7.3	6.6	41			24
26	69	39	54	7	42	66	11	0	0.00			7.5	7.1	154			23
27	74	49	62	15	60	88	3	0	1.55			7.0	3.7	165	28	3 8	23
28	49	29	39	-8	26	70	26	0	0.21			13.1	12.7	15	27	3	19
29	41	26	34	-13	26	75	31	0	0.00			6.1	5.6	29			23
30	58	28	43	-4	29	66	22	0	0.00			2.8	1.1	317			23
31	71	34	53	5	34	56	12	0	0.00			7.0	6.7	197			21
AG/TL	54.6	37.2	45.9		36.5	72	593	9	8.41			7.1					
NORM	56.0	35.9	46.0				597	7	5.46								
DFN	-1.4	+1.3	-0.1				-4	+2	+2.95								

Temperature Data

AVERAGE MONTHLY 45.9
DEPARTURE FROM NORMAL -0.1
HIGHEST 80 ON 4
LOWEST 19 ON 11
NUMBER OF DAYS WITH
MAX 32 OR BELOW 3

Precipitation Data

TOTAL FOR THE MONTH 8.41
DEPARTURE FROM NORMAL +2.95
GREATEST 24HR TOTAL 3.62
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 13
ò 0.10 INCH OR MORE PRECIP 10

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime

```
 MAX 90 OR ABOVE             0     ò 0.50 INCH OR MORE PRECIP  5      7 = blowing dust or sand: visibility 1/2 mile or less
 MIN 32 OR BELOW            13     ò 1.00 INCH OR MORE PRECIP  2      8 = smoke or haze
 MIN  0 OR BELOW             0                                        9 = blowing snow
HEATING DEGREE DAYS (BASE 65)                                        x = tornado
 TOTAL THIS MONTH          593
  DEPARTURE FROM NORMAL     -4    T -- trace                         obs -- number of hourly observations received
COOLING DEGREE DAYS (BASE 65)     M -- estimated;                           by the SRCC for that day
 TOTAL THIS MONTH            9         value may be less than
  DEPARTURE FROM NORMAL     +2         actual daily total            * -- values use Daily Normals calculated by SRCC
Preliminary Daily Summary:  SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month:        February      Year: 1997
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	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	77	40	59	11	53	83	6	0	0.00			6.0	5.6	180		2	22
2	74	52	63	15	62	89	2	0	0.00			5.8	5.4	165		2 8	21
3	72	61	67	19	63	86	0	2	1.47			8.4	8.0	167		8	19
4	72	49	61	13	55	74	4	0	0.00	T		7.0	2.9	293			23
5	53	41	47	-2	36	67	18	0	0.00			7.0	6.2	32			24
6	43	39	41	-8	35	80	24	0	0.00	T		7.0	6.5	39			22
7	44	41	43	-6	40	93	22	0	1.30			7.8	6.4	3	22	3	19
8	44	38	41	-8	36	80	24	0	0.00			7.1	6.3	360			23
9	39	34	37	-13	32	81	28	0	0.00	T		5.4	5.1	45		8	24
10	44	34	39	-11	34	78	26	0	0.00	T		3.1	2.7	31			24
11	54	38	46	-4	36	72	19	0	0.00			3.2	2.7	165			24
12	44	40	42	-8	42	94	23	0	1.92			6.5	6.1	70	25		22
13	45	40	43	-8	40	91	22	0	0.34			7.9	5.5	5	22		23
14	47	36	42	-9	37	88	23	0	0.00			5.7	5.4	352			23
15	60	29	45	-6	35	70	20	0	0.00			1.8	1.4	104		2 8	21
16	67	36	52	1	38	63	13	0	0.00			5.8	2.1	317	20		20
17	66	40	53	1	39	64	12	0	0.00			4.2	3.0	138			22
18	69	39	54	2	45	71	11	0	0.00			6.3	6.2	170	20		22
19	75	55	65	13	59	85	0	0	0.00			5.0	4.8	143			24
20	77	64	71	19	64	83	0	6	0.01			11.8	10.3	158	32		23
21	75	51	63	11	51	66	2	0	0.50			12.9	8.3	261	26	3	23
22	59	42	51	-1	37	63	14	0	0.00			7.4	6.5	350			23
23	59	37	48	-5	36	64	17	0	0.00	T		4.7	4.4	63			21
24	59	49	54	0	38	60	11	0	0.20			6.5	5.6	56			23
25	53	46	50	-4	47	91	15	0	0.36			6.4	5.8	75			24
26	75	52	64	10	59	91	1	0	0.61			9.8	7.0	182	27	1 2 3	21
27	59	48	54	0	44	72	11	0	0.00			3.3	1.0	325			23
28	73	53	63	8	63	96	2	0	0.06			6.5	4.5	143		1 2	23
AG/TL	59.9	43.7	51.8		44.9	78	370	8	6.77			6.4					
NORM	61.9	40.0	51.0				400	6	4.34								
DFN	-2.0	+3.7	+0.8				-30	+2	+2.43								

Temperature Data

AVERAGE MONTHLY	51.8
DEPARTURE FROM NORMAL	+0.8
HIGHEST 77 ON 1	
LOWEST 29 ON 15	
NUMBER OF DAYS WITH	
MAX 32 OR BELOW	0
MAX 90 OR ABOVE	0
MIN 32 OR BELOW	1
MIN 0 OR BELOW	0
HEATING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	370
DEPARTURE FROM NORMAL	-30
COOLING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	8
DEPARTURE FROM NORMAL	+2

Precipitation Data

TOTAL FOR THE MONTH	6.77
DEPARTURE FROM NORMAL	+2.43
GREATEST 24HR TOTAL	2.14
NUMBER OF DAYS WITH	
ò 0.01 INCH OR MORE PRECIP	10
ò 0.10 INCH OR MORE PRECIP	8
ò 0.50 INCH OR MORE PRECIP	5
ò 1.00 INCH OR MORE PRECIP	3

T -- trace
M -- estimated; value may be less than actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: March Year: 1997

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	78	71	75	20	70	85	0	10	0.02			11.7	11.5	174	26		22
2	74	51	63	8	59	92	2	0	2.04			12.4	1.4	229	32		22
3	63	48	56	1	48	85	9	0	0.05			5.1	3.9	243			24
4	78	46	62	7	54	76	3	0	0.00			5.5	5.4	165			23
5	76	48	62	7	59	83	3	0	0.64			9.7	3.4	241	26	3	24
6	59	39	49	-7	36	65	16	0	0.00			6.0	5.5	42			21
7	67	39	53	-3	38	57	12	0	0.00			5.5	4.7	142			23
8	73	51	62	5	54	72	3	0	0.00			3.7	2.2	81			20
9	78	55	67	10	59	80	0	2	0.00			5.8	5.0	211			19
10	73	60	67	10	61	87	0	2	0.61			3.8	3.4	41			13
11	70	56	63	6	57	82	2	0	0.00			3.9	3.8	36			20
12	68	57	63	5	57	79	2	0	0.04			4.7	4.4	77			23
13	76	62	69	11	63	86	0	4	1.09			7.5	4.7	217	21	3	24
14	66	48	57	-1	50	75	8	0	0.00			8.7	7.3	352		8	23
15	52	41	47	-11	32	58	18	0	0.00			9.8	9.7	38	22		24
16	62	40	51	-7	35	56	14	0	0.00			7.1	6.0	83			24
17	75	54	65	6	52	67	0	0	0.00	T		6.7	6.5	163	18		24
18	75	56	66	7	62	90	0	1	0.14			6.1	5.9	177			22
19	63	50	57	-2	53	91	8	0	0.05			7.5	6.6	1		8	24
20	70	50	60	1	48	73	5	0	0.00			4.9	4.7	345	16		24
21	82	45	64	4	49	65	1	0	0.00			3.2	2.9	213		8	24
22	73	53	63	3	49	60	2	0	0.00			8.5	7.1	45	24		22
23	72	46	59	-1	45	61	6	0	0.00			5.3	4.9	55			24
24	80	50	65	5	50	61	0	0	0.00			7.1	6.8	160	23		23
25	78	57	68	7	62	88	0	3	1.08			6.9	2.2	158		3	24
26	67	50	59	-2	48	73	6	0	0.01			7.0	6.6	43	20		24
27	72	46	59	-2	54	76	6	0	0.00	T		4.5	3.9	165	19		24

28	87	63	75	14	62	66	0	10	0.00			10.1	9.4	224	26	24
29	81	56	69	8	50	57	0	4	0.00			2.1	1.0	41		23
30	74	54	64	2	53	68	1	0	0.00			6.5	4.2	12		22
31	70	50	60	-2	38	48	5	0	0.00			7.7	7.6	44		22
AG/TL	72.0	51.4	61.7		51.8	73	132	36	5.77			6.6				
NORM	69.7	47.1	58.4				233	28	5.53							
DFN	+2.3	+4.3	+3.3				-101	+8	+0.24							

Temperature Data

AVERAGE MONTHLY 61.7
DEPARTURE FROM NORMAL +3.3
HIGHEST 87 ON 28
LOWEST 39 ON 6
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 0
MIN 32 OR BELOW 0
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 132
DEPARTURE FROM NORMAL -101
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 36
DEPARTURE FROM NORMAL +8

Precipitation Data

TOTAL FOR THE MONTH 5.77
DEPARTURE FROM NORMAL +0.24
GREATEST 24HR TOTAL 2.04
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 11
ò 0.10 INCH OR MORE PRECIP 6
ò 0.50 INCH OR MORE PRECIP 5
ò 1.00 INCH OR MORE PRECIP 3

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: April Year: 1997

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	70	52	61	-1	41	54	4	0	0.00			4.3	4.0	88			24
2	78	48	63	0	43	54	2	0	0.00			4.7	3.8	89			23
3	80	55	68	5	49	56	0	3	0.00			6.0	5.5	136	18		24
4	73	64	69	6	65	88	0	4	0.60			11.2	11.0	152	25	8	23
5	74	60	67	4	59	75	0	2	1.47			9.5	8.2	189	24	3	22
6	77	55	66	2	50	57	0	1	0.00			9.0	6.0	291	16		22
7	67	46	57	-7	41	56	8	0	0.00			7.1	6.9	42			22
8	62	49	56	-8	43	66	9	0	0.00	T		6.3	6.0	39			23
9	65	50	58	-6	47	69	7	0	0.00			9.4	9.3	37	19		23
10	77	47	62	-2	48	71	3	0	0.00			4.8	3.7	93		8	19
11	75	57	66	2	60	84	0	1	0.28			6.7	3.8	157	20	8	23
12	62	44	53	-12	45	77	12	0	0.03			10.3	10.0	324	23		23
13	58	38	48	-17	35	62	17	0	0.00			6.7	6.2	6			22
14	62	44	53	-12	38	62	12	0	0.00			4.9	4.6	60			21
15	71	42	57	-9	42	65	8	0	0.00			2.9	2.0	94			21
16	77	45	61	-5	47	64	4	0	0.00			2.3	1.7	359			22
17	68	46	57	-9	41	60	8	0	0.00			8.3	7.8	1	20		20
18	76	40	58	-8	43	64	7	0	0.00			4.8	4.6	196			19

19	80	55	68	1	53	63	0	3	0.00		8.1	7.8	232	18			23
20	84	59	72	5	60	67	0	7	0.00		7.5	6.4	208				24
21	89	64	77	10	62	69	0	12	0.00		7.3	6.0	217				24
22	71	53	62	-5	59	87	3	0	0.54		7.0	4.5	351	24	3 8		24
23	72	50	61	-6	52	74	4	0	0.00		4.8	3.5	337	20	8		24
24	71	46	59	-9	48	67	6	0	0.00		4.6	3.6	64		3 8		24
25	63	53	58	-11	52	77	7	0	1.30		8.8	7.9	55	32	3		23
26	64	53	59	-10	56	92	6	0	0.17		10.0	8.7	50	35	3 8		22
27	67	60	64	-5	62	97	1	0	2.06		8.5	7.1	24	21	3		23
28	62	55	59	-10	56	93	6	0	0.17		8.2	6.8	312				24
29	73	50	62	-8	55	81	3	0	0.00		3.8	3.3	156		2		24
30	85	62	74	4	64	73	0	9	0.00	T	9.7	9.0	196	23	8		24
AG/TL	71.8	51.4	61.6		50.5	71	137	42	6.62		6.9						
NORM	77.7	54.1	65.9				74	100	4.77								
DFN	-5.9	-2.7	-4.3				+63	-58	+1.85								

Temperature Data

AVERAGE MONTHLY 61.6
DEPARTURE FROM NORMAL -4.3
HIGHEST 89 ON 21
LOWEST 38 ON 13
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 0
MIN 32 OR BELOW 0
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 137
DEPARTURE FROM NORMAL +63
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 42
DEPARTURE FROM NORMAL -58

Precipitation Data

TOTAL FOR THE MONTH 6.62
DEPARTURE FROM NORMAL +1.85
GREATEST 24HR TOTAL 2.06
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 9
ò 0.10 INCH OR MORE PRECIP 8
ò 0.50 INCH OR MORE PRECIP 5
ò 1.00 INCH OR MORE PRECIP 3

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: May Year: 1997

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	77	56	67	-3	52	60	0	2	0.00			5.9	3.6	58	17		23
2	79	64	72	2	67	86	0	7	0.43			9.0	6.5	191	26	3 8	24
3	75	58	67	-4	50	59	0	2	0.00			7.4	6.9	321			23
4	74	52	63	-8	48	63	2	0	0.00			4.1	3.5	48			23
5	75	51	63	-8	53	67	2	0	0.00			5.9	4.8	163			22
6	81	58	70	-1	62	77	0	5	0.00			2.3	1.4	187			23
7	82	62	72	1	63	73	0	7	0.00			6.4	6.1	187		8	24
8	85	65	75	3	65	73	0	10	0.00			6.1	5.6	224			24
9	78	59	69	-4	55	62	0	4	0.00			8.9	5.5	18			23

10	77	53	65	-8	44	50	0	0	0.00			5.8	5.4	36				24
11	81	50	66	-7	46	55	0	1	0.00			2.7	1.8	155				24
12	82	52	67	-7	52	61	0	2	0.00	T		5.7	5.2	347		8		24
13	81	51	66	-8	46	52	0	1	0.00			4.2	1.5	248				24
14	89	58	74	0	61	66	0	9	0.00			6.9	6.1	222	18	8		24
15	83	63	73	-1	52	53	0	8	0.00	T		6.5	6.2	22				22
16	85	62	74	-1	52	54	0	9	0.00			5.7	5.1	22				24
17	91	57	74	-1	58	60	0	9	0.00			4.0	3.7	208				21
18	87	64	76	1	67	79	0	11	0.12			6.5	6.2	185		3		23
19	83	69	76	1	71	91	0	11	1.04			4.3	3.0	180		3	8	23
20	79	67	73	-2	69	87	0	8	0.98			5.2	5.0	42		3	8	23
21	70	61	66	-10	61	85	0	1	1.66			9.2	9.0	28	22	8		21
22	75	61	68	-8	56	67	0	3	0.00			6.9	6.6	38				22
23	84	62	73	-3	64	78	0	8	0.01			3.8	2.8	137				23
24	77	69	73	-3	69	92	0	8	1.99			5.0	4.1	177	20	3		24
25	84	68	76	-1	70	83	0	11	0.00			6.3	5.5	198				23
26	89	73	81	4	73	79	0	16	0.00			8.4	7.9	189				24
27	87	70	79	2	72	80	0	14	0.79			7.3	5.9	192		3		19
28	84	67	76	-1	68	87	0	11	0.55			5.8	0.8	285		3		24
29	82	68	75	-3	68	84	0	10	0.00	T		4.9	3.8	39				22
30	85	67	76	-2	69	82	0	11	0.63			5.3	2.3	155	23	3		24
31	76	65	71	-7	64	83	0	6	0.01			7.9	7.3	357	20			23
AG/TL	81.2	61.4	71.3		60.2	72	4	205	8.21			5.9						
NORM	85.2	63.4	74.3				8	296	5.47									
DFN	-4.0	-2.0	-3.0				-4	-91	+2.74									

Temperature Data

AVERAGE MONTHLY 71.3
DEPARTURE FROM NORMAL -3.0
HIGHEST 91 ON 17
LOWEST 50 ON 11
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 1
MIN 32 OR BELOW 0
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 4
DEPARTURE FROM NORMAL -4
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 205
DEPARTURE FROM NORMAL -91

Precipitation Data

TOTAL FOR THE MONTH 8.21
DEPARTURE FROM NORMAL +2.74
GREATEST 24HR TOTAL 2.51
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 11
ò 0.10 INCH OR MORE PRECIP 9
ò 0.50 INCH OR MORE PRECIP 7
ò 1.00 INCH OR MORE PRECIP 3

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: June Year: 1997

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)				
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs

1	79	64	72	-6	59	65	0	7	0.00		6.3	5.1	300			24
2	82	61	72	-7	58	67	0	7	0.00		6.9	4.1	325			19
3	83	61	72	-7	61	74	0	7	0.00		3.5	3.2	351			19
4	84	65	75	-4	65	78	0	10	0.98		2.6	2.3	75		3 8	22
5	81	66	74	-5	64	77	0	9	0.00		6.0	5.6	13		8	19
6	85	64	75	-5	62	70	0	10	0.00		5.2	4.6	13		8	23
7	86	63	75	-5	63	71	0	10	0.00		3.1	2.8	53			20
8	91	65	78	-2	66	74	0	13	0.00		4.2	2.6	145		8	24
9	86	70	78	-2	70	87	0	13	0.29		5.7	2.4	142			23
10	82	69	76	-4	71	90	0	11	0.52		5.7	2.5	104			22
11	84	70	77	-4	70	85	0	12	0.00		5.3	4.0	1		1 2	21
12	89	68	79	-2	70	88	0	14	0.04		3.7	2.1	216		3	19
13	88	69	79	-2	71	78	0	14	0.01		6.6	4.4	213			21
14	90	70	80	-1	68	69	0	15	0.00		6.0	2.5	311	18		23
15	89	72	81	0	73	79	0	16	1.88		4.2	3.5	117		3	22
16	91	75	83	2	74	81	0	18	0.00		6.8	6.3	191			17
17	81	70	76	-5	72	88	0	11	0.41		7.8	6.2	200			20
18	88	69	79	-3	68	70	0	14	0.00		5.0	2.7	308			17
19	90	72	81	-1	72	79	0	16	0.00		5.0	4.6	167			22
20	91	72	82	0	73	78	0	17	0.00		7.1	6.7	196		8	24
21	91	76	84	2	74	74	0	19	0.00		7.3	7.1	196			24
22	92	73	83	1	74	78	0	18	0.00		4.1	3.6	171			23
23	95	71	83	1	72	73	0	18	0.00		2.4	1.0	206		8	23
24	95	75	85	3	72	70	0	20	0.00		3.0	2.1	79		8	24
25	91	72	82	0	72	87	0	17	0.02		3.1	1.6	139		3 8	24
26	92	71	82	-1	72	87	0	17	0.53		5.0	2.8	213	20	3 8	23
27	92	70	81	-2	74	81	0	16	0.00		1.3	0.8	183		8	23
28	91	72	82	-1	74	82	0	17	0.02		4.8	2.2	180		3	24
29	91	72	82	-1	74	80	0	17	0.00		8.5	7.7	166			22
30	94	74	84	1	74	74	0	19	0.00		6.1	5.6	205			22
AG/TL	88.1	69.4	78.8		69.4	78	0	422	4.70		5.1					
NORM	91.9	70.2	81.1				0	481	4.47							
DFN	-3.8	-0.8	-2.3				+0	-59	+0.23							

Temperature Data

AVERAGE MONTHLY	78.8
DEPARTURE FROM NORMAL	-2.3
HIGHEST 95 ON 23	
LOWEST 61 ON 2	
NUMBER OF DAYS WITH	
MAX 32 OR BELOW	0
MAX 90 OR ABOVE	15
MIN 32 OR BELOW	0
MIN 0 OR BELOW	0
HEATING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	0
DEPARTURE FROM NORMAL	0
COOLING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	422
DEPARTURE FROM NORMAL	-59

Precipitation Data

TOTAL FOR THE MONTH	4.70
DEPARTURE FROM NORMAL	+0.23
GREATEST 24HR TOTAL	1.88
NUMBER OF DAYS WITH	
ò 0.01 INCH OR MORE PRECIP	10
ò 0.10 INCH OR MORE PRECIP	6
ò 0.50 INCH OR MORE PRECIP	4
ò 1.00 INCH OR MORE PRECIP	1

T -- trace
M -- estimated; value may be less than actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: July Year: 1997

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	94	76	85	2	74	72	0	20	0.00			6.8	6.3	226			24
2	96	75	86	3	73	69	0	21	0.00			6.1	5.3	240			24
3	97	75	86	3	74	69	0	21	0.00			4.3	2.9	251			24
4	97	72	85	2	72	69	0	20	0.00			5.7	3.4	290			23
5	84	69	77	-6	66	72	0	12	0.00			7.0	6.4	38			24
6	88	67	78	-5	67	76	0	13	0.97			6.1	2.9	41	25	3	24
7	83	70	77	-6	72	89	0	12	0.30			3.7	1.8	157		3	24
8	92	70	81	-2	73	81	0	16	0.00			5.4	4.2	207			23
9	91	71	81	-2	74	84	0	16	0.00 T			4.9	3.6	182			22
10	92	71	82	-1	74	79	0	17	0.00			3.3	2.1	166			23
11	94	74	84	1	74	75	0	19	0.00			4.0	2.5	183			23
12	97	74	86	3	74	75	0	21	0.00			4.1	1.6	175			24
13	97	74	86	3	73	76	0	21	0.00			4.1	0.9	266		3	23
14	93	71	82	-1	75	79	0	17	0.00			2.1	0.9	84			22
15	93	73	83	-1	73	78	0	18	0.12			4.9	1.2	66		3	23
16	94	71	83	-1	73	79	0	18	0.00			2.0	1.2	114		8	24
17	94	71	83	-1	73	76	0	18	0.00			2.9	1.7	126			24
18	93	72	83	-1	72	74	0	18	0.00			2.9	2.0	100			23
19	96	72	84	0	73	77	0	19	0.69			2.3	0.5	39		3	23
20	94	73	84	0	75	78	0	19	0.00			3.1	1.3	316		8	23
21	98	74	86	2	74	73	0	21	0.07			3.8	1.9	276		8	24
22	98	74	86	2	74	72	0	21	0.00			4.7	2.4	265			23
23	96	74	85	1	74	75	0	20	0.00			3.8	2.6	265		3 8	24
24	96	73	85	1	74	75	0	20	0.00			4.0	2.4	188			24
25	99	74	87	3	75	73	0	22	0.00			2.9	1.0	142		8	24
26	100	76	88	4	75	71	0	23	0.00			2.9	0.3	352		8	23
27	99	76	88	4	76	72	0	23	0.00			3.3	2.3	77		8	22
28	99	74	87	3	75	71	0	22	0.00			2.1	1.4	187		8	24
29	100	74	87	3	75	79	0	22	0.37			4.5	1.5	350	30	3 8	24
30	85	75	80	-4	75	89	0	15	0.00 T			6.0	5.6	9		8	24
31	90	73	82	-1	72	77	0	17	0.00			6.8	6.4	18			24
AG/TL	94.2	72.8	83.5		73.3	76	0	582	2.52			4.2					
NORM	94.3	72.7	83.5				0	574	3.50								
DFN	-0.1	+0.1	+0.0				+0	+8	-0.98								

Temperature Data

AVERAGE MONTHLY 83.5
DEPARTURE FROM NORMAL +0.0
HIGHEST 100 ON 26
LOWEST 67 ON 6
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0

Precipitation Data

TOTAL FOR THE MONTH 2.52
DEPARTURE FROM NORMAL -0.98
GREATEST 24HR TOTAL 1.27
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 6
ò 0.10 INCH OR MORE PRECIP 5

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime

```
 MAX 90 OR ABOVE            27     ò 0.50 INCH OR MORE PRECIP  2      7 = blowing dust or sand: visibility 1/2 mile or less
 MIN 32 OR BELOW             0     ò 1.00 INCH OR MORE PRECIP  0      8 = smoke or haze
 MIN  0 OR BELOW             0                                        9 = blowing snow
HEATING DEGREE DAYS (BASE 65)                                        x = tornado
 TOTAL THIS MONTH            0
  DEPARTURE FROM NORMAL      0    T -- trace                          obs -- number of hourly observations received
COOLING DEGREE DAYS (BASE 65)     M -- estimated;                            by the SRCC for that day
 TOTAL THIS MONTH          582         value may be less than
  DEPARTURE FROM NORMAL     +8         actual daily total             * -- values use Daily Normals calculated by SRCC
Preliminary Daily Summary:  SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month:          August      Year: 1997
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	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	80	72	76	-8	71	88	0	11	0.00 T			4.9	4.6	53			24
2	89	66	78	-6	65	70	0	13	0.00			5.3	4.7	45			24
3	91	64	78	-6	66	70	0	13	0.00			2.8	1.9	357			24
4	94	70	82	-2	70	71	0	17	0.00			3.4	2.8	316		8	24
5	96	70	83	0	71	74	0	18	0.13			4.6	2.6	67		8	24
6	90	70	80	-3	64	60	0	15	0.00			7.5	6.8	49			24
7	76	68	72	-11	64	75	0	7	0.00 T			6.5	6.0	38			24
8	80	67	74	-9	70	91	0	9	0.50			4.9	2.1	158			24
9	83	72	78	-5	73	92	0	13	0.95			6.9	5.8	179	19	3	24
10	92	72	82	-1	75	85	0	17	0.00			3.4	1.5	181			24
11	92	73	83	0	77	85	0	18	0.00			4.7	3.9	163			24
12	93	75	84	1	78	88	0	19	0.20			3.3	2.8	188			23
13	94	75	85	2	76	80	0	20	0.02			5.6	3.0	238			24
14	93	74	84	1	75	80	0	19	0.00			5.4	5.0	203			21
15	93	76	85	2	74	73	0	20	0.00			8.8	8.3	210	18		23
16	95	75	85	2	76	75	0	20	0.00			6.8	6.5	188			22
17	96	75	86	4	76	77	0	21	0.00			6.0	4.5	208	16		23
18	96	76	86	4	75	75	0	21	0.00			4.9	0.4	227			24
19	95	72	84	2	72	71	0	19	0.00			4.8	4.4	228			23
20	97	71	84	2	73	74	0	19	0.96			8.0	6.4	280	16	3	23
21	89	69	79	-3	70	81	0	14	0.00			5.1	3.9	2			23
22	84	66	75	-7	66	83	0	10	0.55			5.7	4.4	54		3	23
23	84	65	75	-7	65	77	0	10	0.00			5.8	5.1	30			24
24	86	63	75	-7	63	73	0	10	0.00			4.3	3.5	49			24
25	87	61	74	-8	64	74	0	9	0.00			2.3	2.0	59			24
26	91	62	77	-4	66	75	0	12	0.00			2.2	1.0	267			21
27	93	67	80	-1	69	77	0	15	0.00			1.9	1.2	339		8	23
28	93	68	81	0	69	74	0	16	0.00			3.7	2.4	308	17	8	24
29	95	70	83	2	71	73	0	18	0.00			2.7	1.7	344		8	22
30	96	70	83	2	72	74	0	18	0.00			2.7	1.5	308		8	24
31	98	72	85	4	72	75	0	20	0.00			3.6	1.2	223		8	24
AG/TL	90.7	69.9	80.3		70.6	77	0	481	3.31			4.8					
NORM	93.8	71.1	82.5				0	540	2.84								
DFN	-3.1	-1.2	-2.2				+0	-59	+0.47								

Temperature Data

AVERAGE MONTHLY 80.3
DEPARTURE FROM NORMAL -2.2
HIGHEST 98 ON 31
LOWEST 61 ON 25
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 21
MIN 32 OR BELOW 0
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 0
DEPARTURE FROM NORMAL 0
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 481
DEPARTURE FROM NORMAL -59

Precipitation Data

TOTAL FOR THE MONTH 3.31
DEPARTURE FROM NORMAL +0.47
GREATEST 24HR TOTAL 1.39
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 7
ò 0.10 INCH OR MORE PRECIP 6
ò 0.50 INCH OR MORE PRECIP 4
ò 1.00 INCH OR MORE PRECIP 0

T -- trace
M -- estimated; value may be less than actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: September Year: 1997

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	95	69	82	2	71	79	0	17	0.00			2.7	0.4	199		3 8	24
2	94	71	83	3	73	81	0	18	0.00			2.7	1.7	43			22
3	96	71	84	4	73	78	0	19	0.00			6.6	6.2	4		8	23
4	83	60	72	-8	61	68	0	7	0.00			9.0	8.6	26		8	23
5	88	56	72	-7	61	68	0	7	0.00			5.9	5.6	30			24
6	91	66	79	0	68	73	0	14	0.00			4.7	4.0	154		8	24
7	93	69	81	2	68	72	0	16	0.00			4.0	3.0	167			24
8	93	66	80	1	70	80	0	15	0.00			3.5	1.6	260		8	24
9	91	68	80	1	71	82	0	15	1.32			6.7	2.8	254	30	3	24
10	87	64	76	-3	66	75	0	11	0.00			5.7	4.9	357			23
11	85	60	73	-5	59	69	0	8	0.00			4.4	3.3	16			24
12	87	58	73	-5	59	67	0	8	0.00			3.4	1.5	35			24
13	90	58	74	-4	60	67	0	9	0.00			3.0	1.8	46			24
14	91	60	76	-2	62	69	0	11	0.00			2.8	2.5	34			24
15	93	65	79	2	65	70	0	14	0.00			2.4	1.4	43			23
16	95	64	80	3	66	69	0	15	0.00			3.6	3.0	167		8	24
17	96	67	82	5	69	73	0	17	0.00			3.7	2.1	183		8	24
18	95	68	82	6	67	68	0	17	0.00			3.6	3.3	180		8	24
19	94	67	81	5	67	69	0	16	0.00			4.8	4.4	187			22
20	96	67	82	6	69	71	0	17	0.00			2.4	0.6	344		8	21
21	87	70	79	3	70	77	0	14	0.00			8.1	7.4	24			20
22	90	68	79	4	67	73	0	14	0.00			5.2	4.7	38			23
23	79	72	76	1	72	94	0	11	0.19			5.4	5.0	182		8	21
24	84	66	75	0	73	94	0	10	0.74			5.7	1.4	267			19
25	75	64	70	-4	64	85	0	5	0.00	T		6.4	5.4	342			17
26	83	56	70	-4	58	71	0	5	0.00			5.3	5.0	356			24
27	86	58	72	-2	62	76	0	7	0.00			3.8	2.9	1			23

28	89	60	75	2	62	71	0	10	0.00			3.7	2.8	311	8	24
29	88	60	74	2	61	70	0	9	0.00			3.7	1.5	24		24
30	93	64	79	7	67	75	0	14	0.00			2.2	1.8	260	8	23
AG/TL	89.6	64.4	77.0		66.0	74	0	370	2.25			4.5				
NORM	88.6	65.0	76.8				3	358	3.37							
DFN	+1.0	-0.6	+0.2				-3	+12	-1.12							

Temperature Data

AVERAGE MONTHLY 77.0
DEPARTURE FROM NORMAL +0.2
HIGHEST 96 ON 3
LOWEST 56 ON 5
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 17
MIN 32 OR BELOW 0
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 0
DEPARTURE FROM NORMAL -3
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 370
DEPARTURE FROM NORMAL +12

Precipitation Data

TOTAL FOR THE MONTH 2.25
DEPARTURE FROM NORMAL -1.12
GREATEST 24HR TOTAL 1.32
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 3
ò 0.10 INCH OR MORE PRECIP 3
ò 0.50 INCH OR MORE PRECIP 2
ò 1.00 INCH OR MORE PRECIP 1

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: October Year: 1997

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	87	58	73	1	54	56	0	8	0.00			6.5	4.0	34			24
2	86	53	70	-2	52	63	0	5	0.00			2.8	1.9	66			24
3	87	52	70	-2	52	65	0	5	0.00			1.8	0.9	160			24
4	87	52	70	-1	55	68	0	5	0.00			3.2	1.0	197			23
5	90	57	74	4	61	71	0	9	0.00			3.4	1.8	144			24
6	91	61	76	6	64	71	0	11	0.00			3.5	2.3	113			24
7	89	66	78	9	65	72	0	13	0.00			4.3	3.5	114			23
8	90	70	80	11	67	70	0	15	0.00			7.2	5.2	163	19		22
9	84	72	78	9	71	78	0	13	0.00	T		6.0	2.7	140			24
10	87	70	79	11	67	72	0	14	0.00			6.3	4.9	66			23
11	90	67	79	11	63	63	0	14	0.00			7.2	5.5	117			24
12	89	67	78	10	66	69	0	13	0.00			9.4	7.9	184	25		23
13	77	52	65	-2	60	91	0	0	1.82			9.7	5.3	351			23
14	71	48	60	-7	44	66	5	0	0.00			9.4	9.2	5	26		24
15	71	44	58	-8	40	58	7	0	0.00			7.2	6.7	10			24
16	72	45	59	-7	40	57	6	0	0.00			8.8	8.8	2			24
17	67	44	56	-10	45	70	9	0	0.00			5.5	5.1	346			24
18	69	43	56	-10	42	71	9	0	0.00			3.4	2.9	1			23

19	76	38	57	-9	47	74	8	0	0.00			3.1	352			24
20	84	50	67	2	57	78	0	2	0.00		2.8	0.4	294		8	24
21	82	53	68	4	57	87	0	3	0.12		7.6	3.7	332	19	3	23
22	65	46	56	-8	46	76	9	0	0.00		7.0	6.8	26			24
23	73	42	58	-6	53	83	7	0	2.24		6.9	5.2	146	23	3	24
24	85	60	73	10	64	81	0	8	0.14		8.5	8.1	202	18		24
25	83	65	74	11	72	89	0	9	0.28		8.3	6.3	194	24	3	23
26	65	49	57	-6	40	60	8	0	0.00		9.3	9.0	279			24
27	54	38	46	-16	38	74	19	0	0.00		7.8	6.6	352			24
28	53	36	45	-17	40	86	20	0	0.00		2.0	1.2	166			23
29	68	37	53	-9	46	79	12	0	0.00		2.6	1.2	103		1	24
30	75	47	61	0	50	72	4	0	0.00		5.2	4.4	144			24
31	76	60	68	7	61	86	0	3	0.16		6.4	4.2	171		3 8	21
AG/TL	78.2	53.0	65.6		54.2	73	123	150	4.76		5.7					
NORM	79.6	53.0	66.3				68	108	3.91							
DFN	-1.4	+0.0	-0.7				+55	+42	+0.85							

Temperature Data

AVERAGE MONTHLY 65.6
DEPARTURE FROM NORMAL -0.7
HIGHEST 91 ON 6
LOWEST 36 ON 28
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 4
MIN 32 OR BELOW 0
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 123
DEPARTURE FROM NORMAL +55
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 150
DEPARTURE FROM NORMAL +42

Precipitation Data

TOTAL FOR THE MONTH 4.76
DEPARTURE FROM NORMAL +0.85
GREATEST 24HR TOTAL 2.38
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 6
ò 0.10 INCH OR MORE PRECIP 6
ò 0.50 INCH OR MORE PRECIP 2
ò 1.00 INCH OR MORE PRECIP 2

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: November Year: 1997

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	73	56	65	4	56	76	0	0	0.00			7.8	4.6	295	20		23
2	71	47	59	-2	39	53	6	0	0.00			9.5	9.1	274	22		24
3	65	42	54	-7	36	58	11	0	0.00			7.7	7.0	261	27		23
4	70	35	53	-8	40	65	12	0	0.00			4.4	3.6	165			22
5	59	54	57	-3	50	83	8	0	0.84			6.8	4.7	186		3	24
6	57	45	51	-8	44	80	14	0	0.00			7.0	6.7	320			24
7	52	44	48	-11	43	81	17	0	0.00			7.1	6.5	339			23
8	59	39	49	-9	42	81	16	0	0.00			3.1	2.0	358			23
9	58	37	48	-10	42	84	17	0	0.01			3.2	1.9	32		8	24

10	56	48	52	-6	48	86	13	0	0.07	2.3	1.8	359			24
11	60	50	55	-2	47	80	10	0	0.00	4.5	4.1	37		8	24
12	52	48	50	-7	48	94	15	0	0.22	9.1	9.0	29			23
13	48	45	47	-10	45	94	18	0	0.16	7.0	5.7	349			23
14	52	44	48	-8	46	90	17	0	0.02	5.1	3.3	287			24
15	49	33	41	-15	37	85	24	0	0.19	7.5	6.8	317	20		22
16	48	28	38	-18	27	72	27	0	0.00	6.5	6.1	353			22
17	50	27	39	-16	29	75	26	0	0.00	2.7	1.7	80			22
18	52	42	47	-8	39	80	18	0	0.33	2.8	1.0	148			20
19	58	39	49	-6	43	88	16	0	0.00	2.3	1.2	34		2	24
20	66	37	52	-3	49	88	13	0	0.00	4.1	3.7	172			24
21	69	48	59	5	57	93	6	0	0.35	4.3	2.2	314			22
22	63	42	53	-1	47	88	12	0	0.00	4.7	4.4	8		1 2	24
23	59	39	49	-5	42	90	16	0	0.00	2.8	2.0	40		2	24
24	65	34	50	-4	39	77	15	0	0.00	3.5	2.6	116			24
25	69	38	54	1	43	69	11	0	0.00	5.5	5.3	159			24
26	73	55	64	11	57	84	1	0	0.00	5.9	4.7	196			23
27	76	59	68	15	58	77	0	3	0.01	7.0	6.7	159			24
28	73	57	65	13	61	86	0	0	1.88	8.5	7.0	128		3	24
29	73	55	64	12	56	76	1	0	0.00	5.1	3.0	252	19		24
30	61	46	54	2	45	75	11	0	0.00	8.4	7.8	281	16		23
AG/TL	61.2	43.8	52.5		45.2	80	371	3	4.08	5.5					
NORM	67.7	44.6	56.2				282	16	4.45						
DFN	-6.5	-0.8	-3.7				+89	-13	-0.37						

Temperature Data

AVERAGE MONTHLY 52.5
DEPARTURE FROM NORMAL -3.7
HIGHEST 76 ON 27
LOWEST 27 ON 17
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 0
MIN 32 OR BELOW 2
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 371
DEPARTURE FROM NORMAL +89
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 3
DEPARTURE FROM NORMAL -13

Precipitation Data

TOTAL FOR THE MONTH 4.08
DEPARTURE FROM NORMAL -0.37
GREATEST 24HR TOTAL 1.88
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 11
ò 0.10 INCH OR MORE PRECIP 7
ò 0.50 INCH OR MORE PRECIP 2
ò 1.00 INCH OR MORE PRECIP 1

T -- trace
M -- estimated; value may be less than actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: December Year: 1997

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)				
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs

1	54	48	51	-1	46	82	14	0	0.00		6.1	4.7	24				24
2	60	48	54	3	49	85	11	0	0.00		5.3	4.0	93				24
3	63	48	56	5	52	87	9	0	0.54		6.8	3.0	263	24			24
4	56	43	50	-1	35	65	15	0	0.00		9.3	9.0	287	18			24
5	53	36	45	-5	27	55	20	0	0.00		8.0	7.4	331				24
6	50	29	40	-10	23	60	25	0	0.00		5.0	4.7	334				23
7	44	28	36	-14	32	83	29	0	0.86		5.8	4.8	112				24
8	55	38	47	-3	45	97	18	0	0.22		5.8	3.7	102		1 2		23
9	65	48	57	7	56	94	8	0	0.02		6.8	4.7	186		2		24
10	58	41	50	1	37	67	15	0	0.00		9.7	8.9	314	17			23
11	43	39	41	-8	31	68	24	0	0.00		8.6	8.4	334		8		24
12	43	39	41	-8	32	72	24	0	0.00		9.0	8.8	352				24
13	42	36	39	-10	30	71	26	0	0.00	T	7.2	6.9	320				24
14	51	32	42	-7	32	77	23	0	0.10		7.7	6.6	332				23
15	57	28	43	-5	30	74	22	0	0.00		3.4	0.7	113				23
16	64	29	47	-1	34	66	18	0	0.00		5.6	5.0	185				23
17	62	34	48	0	39	75	17	0	0.00		4.4	2.3	1		1 2		24
18	64	31	48	0	37	78	17	0	0.00		2.7	2.4	132		1 8		24
19	72	34	53	5	46	81	12	0	0.00		5.5	4.9	159		8		23
20	73	47	60	12	52	77	5	0	0.06		8.7	8.1	130				24
21	72	46	59	12	54	87	6	0	1.75		8.0	2.7	172	24	8		22
22	66	42	54	7	44	77	11	0	0.00		5.2	2.3	296				23
23	55	46	51	4	47	95	14	0	2.62		8.6	7.9	66		3		22
24	59	40	50	3	42	73	15	0	0.01		9.9	7.3	248	26			19
25	53	34	44	-3	37	80	21	0	0.00		5.5	2.5	353				23
26	47	40	44	-2	38	84	21	0	0.14		8.1	6.8	354		8		24
27	49	34	42	-4	34	81	23	0	0.00	T	7.5	4.9	339	19			24
28	52	30	41	-5	34	79	24	0	0.01		10.0	6.6	217	25			23
29	51	38	45	-1	29	59	20	0	0.00	T	12.4	12.1	289	24			23
30	62	29	46	0	31	57	19	0	0.00		7.3	6.5	252	19			23
31	51	31	41	-5	27	59	24	0	0.00		6.7	4.0	343				23
AG/TL	56.3	37.6	47.0		38.1	76	550	0	6.33		7.1						
NORM	58.8	38.0	48.4				525	10	5.23								
DFN	-2.5	-0.4	-1.5				+25	-10	+1.10								

Temperature Data

AVERAGE MONTHLY 47.0
DEPARTURE FROM NORMAL -1.5
HIGHEST 73 ON 20
LOWEST 28 ON 7
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 0
MIN 32 OR BELOW 9
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 550
DEPARTURE FROM NORMAL +25
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 0
DEPARTURE FROM NORMAL -10

Precipitation Data

TOTAL FOR THE MONTH 6.33
DEPARTURE FROM NORMAL +1.10
GREATEST 24HR TOTAL 2.65
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 11
ò 0.10 INCH OR MORE PRECIP 7
ò 0.50 INCH OR MORE PRECIP 4
ò 1.00 INCH OR MORE PRECIP 2

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: January Year: 1998

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	59	29	44	-2	33	68	21	0	0.00			6.9	6.5	150			23
2	68	50	59	13	50	76	6	0	0.00			9.5	9.3	159	19		23
3	68	57	63	17	57	87	2	0	0.00 T			6.9	6.5	144			24
4	69	51	60	14	59	93	5	0	0.27			7.0	6.4	123	20		24
5	70	60	65	19	63	97	0	0	0.15			6.1	5.1	134	20	1	24
6	65	59	62	16	61	99	3	0	3.20			7.0	4.2	104	21	1 2 3	23
7	62	47	55	9	55	95	10	0	2.00			10.7	8.1	341	24		22
8	48	42	45	0	40	85	20	0	0.02			10.6	10.1	246	21		23
9	52	42	47	2	39	79	18	0	0.00			5.4	1.4	169			23
10	62	36	49	4	43	86	16	0	0.03			5.2	3.3	102			24
11	70	46	58	13	47	71	7	0	0.70			8.0	5.2	128		3	23
12	63	51	57	12	55	94	8	0	0.60			4.8	2.8	142	23	2 3	24
13	58	45	52	7	52	97	13	0	0.02			7.8	7.6	37	21	1 2	24
14	59	46	53	8	51	95	12	0	0.02			5.0	3.6	48			24
15	55	36	46	0	44	97	19	0	0.40			7.8	7.2	333			23
16	54	32	43	-3	40	86	22	0	0.00			6.4	3.4	161		2	24
17	59	40	50	4	39	72	15	0	0.00			5.4	1.4	40			24
18	68	37	53	7	48	88	12	0	0.00			7.3	1.3	28			24
19	52	35	44	-2	40	84	21	0	0.00			6.4	5.2	42			24
20	58	33	46	0	41	82	19	0	0.00			7.5	7.2	135			24
21	54	52	53	7	52	98	12	0	1.44			6.0	4.5	83		3	24
22	57	44	51	5	48	94	14	0	0.86			9.0	6.9	8	22	3	24
23	52	35	44	-2	38	85	21	0	0.00			6.7	4.8	1			24
24	57	31	44	-2	36	80	21	0	0.00			4.2	2.7	320		2	24
25	58	35	47	0	38	77	18	0	0.00			6.3	5.9	135			24
26	51	45	48	1	47	94	17	0	0.70			8.0	3.0	65		3	24
27	57	40	49	2	41	80	16	0	0.00			6.7	6.0	350			23
28	65	34	50	3	40	74	15	0	0.00			5.0	4.7	183			24
29	67	42	55	8	49	90	10	0	0.00			4.0	1.7	204		1 8	24
30	64	40	52	5	42	75	13	0	0.00			5.1	4.9	66		1 2	24
31	63	36	50	2	38	65	15	0	0.00			5.7	5.0	106			23
AG/TL	60.1	42.2	51.2		46.0	85	421	0	10.41			6.7					
NORM	56.0	35.9	46.0				597	7	5.46								
DFN	+4.1	+6.3	+5.2				-176	-7	+4.95								

Temperature Data		Precipitation Data		Weather Occurrences Legend
AVERAGE MONTHLY	51.2	TOTAL FOR THE MONTH	10.41	1 = fog
DEPARTURE FROM NORMAL	+5.2	DEPARTURE FROM NORMAL	+4.95	2 = fog reducing visibility to 1/4 mile or less
HIGHEST 70 ON 5		GREATEST 24HR TOTAL	4.90	3 = thunder
LOWEST 29 ON 1		NUMBER OF DAYS WITH		4 = ice pellets
NUMBER OF DAYS WITH		ò 0.01 INCH OR MORE PRECIP	14	5 = hail
MAX 32 OR BELOW	0	ò 0.10 INCH OR MORE PRECIP	10	6 = glaze or rime

MAX 90 OR ABOVE 0 ò 0.50 INCH OR MORE PRECIP 7
MIN 32 OR BELOW 3 ò 1.00 INCH OR MORE PRECIP 3
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 421
DEPARTURE FROM NORMAL -176
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 0
DEPARTURE FROM NORMAL -7

7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

T -- trace
M -- estimated;
value may be less than
actual daily total

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: February Year: 1998

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	55	45	50	2	48	89	15	0	1.68			6.3	5.2	115	21	3	24
2	56	50	53	5	50	90	12	0	0.12			9.8	9.6	22	23		24
3	63	48	56	8	45	70	9	0	0.00			12.5	12.3	353	21		24
4	55	39	47	-1	33	59	18	0	0.00			8.3	7.7	5			22
5	54	34	44	-5	32	68	21	0	0.00			6.4	5.4	12			24
6	55	36	46	-3	35	75	19	0	0.00			4.3	3.3	328			24
7	57	32	45	-4	35	73	20	0	0.00			4.6	2.9	9			24
8	58	33	46	-3	38	75	19	0	0.00			3.6	2.5	76			24
9	67	38	53	3	45	76	12	0	0.00			7.8	6.8	135			23
10	73	52	63	13	56	87	2	0	1.01			12.2	10.5	174	29	3	24
11	63	45	54	4	42	68	11	0	0.00			12.7	12.3	266	26		24
12	60	39	50	0	40	71	15	0	0.00			4.3	2.4	36			24
13	64	44	54	3	44	77	11	0	0.03			4.4	3.1	49			24
14	63	40	52	1	42	72	13	0	0.00			5.6	5.1	69		1	24
15	54	48	51	0	43	78	14	0	1.02			10.2	9.3	61	22		24
16	56	51	54	3	51	98	11	0	0.39			6.6	2.8	215			20
17	55	46	51	-1	48	87	14	0	0.15			9.5	8.7	253	25		24
18	66	39	53	1	43	75	12	0	0.00			5.5	4.9	246			23
19	67	48	58	6	48	78	7	0	0.04			5.0	2.4	53		3	24
20	67	44	56	4	45	73	9	0	0.00			5.1	2.4	299			23
21	69	40	55	3	44	68	10	0	0.00			4.4	3.1	114			23
22	55	45	50	-2	46	88	15	0	0.81			8.8	6.5	11	20		21
23	67	41	54	1	45	76	11	0	0.00			3.6	2.7	293			24
24	73	49	61	7	51	76	4	0	0.00			5.0	4.0	156			20
25	71	51	61	7	55	78	4	0	0.00			8.8	8.6	154	22		24
26	67	55	61	7	55	85	4	0	1.26			7.3	1.6	182		3	23
27	70	44	57	3	38	52	8	0	0.00			5.8	3.9	230			22
28	64	44	54	-1	36	54	11	0	0.00			6.4	5.2	275			24
AG/TL	62.3	43.6	53.0		44.0	76	331	0	6.51			7.0					
NORM	61.9	40.0	51.0				400	6	4.34								
DFN	+0.4	+3.6	+2.0				-69	-6	+2.17								

Temperature Data

AVERAGE MONTHLY	53.0
DEPARTURE FROM NORMAL	+2.0
HIGHEST 73 ON 10	
LOWEST 32 ON 7	
NUMBER OF DAYS WITH	
MAX 32 OR BELOW	0
MAX 90 OR ABOVE	0
MIN 32 OR BELOW	1
MIN 0 OR BELOW	0
HEATING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	331
DEPARTURE FROM NORMAL	-69
COOLING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	0
DEPARTURE FROM NORMAL	-6

Precipitation Data

TOTAL FOR THE MONTH	6.51
DEPARTURE FROM NORMAL	+2.17
GREATEST 24HR TOTAL	1.75
NUMBER OF DAYS WITH	
ò 0.01 INCH OR MORE PRECIP	10
ò 0.10 INCH OR MORE PRECIP	8
ò 0.50 INCH OR MORE PRECIP	5
ò 1.00 INCH OR MORE PRECIP	4

T -- trace
M -- estimated; value may be less than actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: March Year: 1998

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv		Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	64	35	50	-5	26	45	15	0	0.00				8.2	7.6	281	31		24
2	58	33	46	-9	28	52	19	0	0.00				8.3	7.4	300	22		24
3	58	35	47	-8	29	55	18	0	0.00				5.3	1.1	247			24
4	69	45	57	2	46	65	8	0	0.01				8.3	8.0	179	19		24
5	80	61	71	16	61	81	0	6	1.09				6.7	4.5	163		3	24
6	65	51	58	2	54	99	7	0	0.14				6.3	5.5	3		3	23
7	64	50	57	1	57	100	8	0	2.43				7.3	5.0	95	24	3	22
8	64	40	52	-5	46	84	13	0	0.09				12.0	11.3	272	37		24
9	53	38	46	-11	30	58	19	0	0.00				12.5	11.8	310	24		24
10	47	30	39	-18	21	54	26	0	0.00				9.1	7.9	7	19		23
11	52	27	40	-17	25	63	25	0	0.00				7.8	6.9	36	20		23
12	41	27	34	-24	21	60	31	0	0.00				8.6	8.1	58	18		24
13	55	37	46	-12	31	60	19	0	0.00	T			5.3	4.6	172			23
14	71	45	58	0	45	65	7	0	0.00				3.5	2.1	143			22
15	73	53	63	5	53	73	2	0	0.00	T			6.2	5.7	127			24
16	69	55	62	4	55	80	3	0	1.92				9.3	6.2	102	28	3	24
17	78	58	68	9	57	73	0	3	0.00				7.4	6.5	182			24
18	76	54	65	6	53	67	0	0	0.00				6.0	3.3	45			24
19	72	47	60	1	53	79	5	0	0.00	T			9.3	5.8	255	30	2	24
20	50	44	47	-12	35	64	18	0	0.00				12.5	12.3	297	25		24
21	62	42	52	-8	36	57	13	0	0.00				7.8	6.6	344	19		24
22	68	37	53	-7	39	66	12	0	0.00				2.5	0.2	11			24
23	79	42	61	1	43	55	4	0	0.00				8.0	7.6	197	19		24
24	78	46	62	2	54	71	3	0	0.00				7.9	7.6	175	21		24
25	79	56	68	7	58	74	0	3	0.00				9.8	9.5	179	26		24
26	83	62	73	12	61	72	0	8	0.00				10.4	10.3	169	23		24
27	81	65	73	12	62	73	0	8	0.00				11.8	11.4	174	31		24

28	84	67	76	15	64	72	0	11	0.00		8.7	8.4	183	19		24
29	85	64	75	14	64	72	0	10	0.00		8.3	8.2	159	21		23
30	86	70	78	16	65	69	0	13	0.00		11.8	11.7	163	32		24
31	71	50	61	-1	53	73	4	0	0.21		9.0	4.7	243	28	3	24
AG/TL	68.2	47.3	57.8		46.0	69	279	62	5.89		8.3					
NORM	69.7	47.1	58.4				233	28	5.53							
DFN	-1.5	+0.2	-0.7				+46	+34	+0.36							

Temperature Data

AVERAGE MONTHLY 57.8
DEPARTURE FROM NORMAL -0.7
HIGHEST 86 ON 30
LOWEST 27 ON 11
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 0
MIN 32 OR BELOW 3
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 279
DEPARTURE FROM NORMAL +46
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 62
DEPARTURE FROM NORMAL +34

Precipitation Data

TOTAL FOR THE MONTH 5.89
DEPARTURE FROM NORMAL +0.36
GREATEST 24HR TOTAL 2.42
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 7
ò 0.10 INCH OR MORE PRECIP 5
ò 0.50 INCH OR MORE PRECIP 3
ò 1.00 INCH OR MORE PRECIP 3

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: April Year: 1998

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	83	43	63	1	44	57	2	0	0.00			4.8	4.2	205			23
2	81	48	65	2	54	72	0	0	0.25			5.6	5.0	135			24
3	82	59	71	8	53	59	0	6	0.00 T			10.8	8.5	261	31		24
4	62	47	55	-8	45	68	10	0	0.00			8.3	7.1	10			24
5	68	40	54	-9	44	71	11	0	0.00			4.7	2.9	45			23
6	79	43	61	-3	49	65	4	0	0.00			7.0	5.8	166	20		24
7	86	63	75	11	62	71	0	10	0.00 T			8.3	8.0	204	22		23
8	87	65	76	12	59	63	0	11	0.00			9.3	5.1	250	28		24
9	74	53	64	0	45	54	1	0	0.00			10.2	9.6	294	21		24
10	74	45	60	-4	42	59	5	0	0.00			6.4	4.5	331			24
11	79	43	61	-3	42	57	4	0	0.00			3.7	2.8	125			23
12	80	45	63	-2	46	55	2	0	0.00			8.8	8.4	167	22		24
13	76	58	67	2	62	79	0	2	0.00 T			9.0	8.5	180	25		24
14	87	68	78	13	66	77	0	13	0.00			6.6	6.0	189			24
15	83	70	77	11	67	75	0	12	0.00			7.5	7.3	185			24
16	87	63	75	9	68	78	0	10	0.00 T			7.2	3.1	235		8	24
17	64	52	58	-8	47	70	7	0	0.00 T			9.8	9.2	20	22		23
18	60	54	57	-9	55	99	8	0	1.78			6.8	4.5	17			24

19	70	53	62	-5	51	76	3	0	0.00		6.5	5.4	354				24
20	76	48	62	-5	52	76	3	0	0.00		2.7	2.1	134				24
21	70	55	63	-4	52	75	2	0	0.04		7.8	7.3	343				24
22	72	47	60	-7	43	56	5	0	0.00		8.5	7.6	316	22			22
23	74	47	61	-6	48	68	4	0	0.00		4.5	3.7	325	17			24
24	80	48	64	-4	49	63	1	0	0.00		5.8	5.0	176				23
25	81	59	70	1	55	62	0	5	0.00		10.3	10.0	182	23			23
26	79	58	69	0	61	74	0	4	0.00	T	7.5	7.2	162	17	8		24
27	82	64	73	4	66	84	0	8	1.81		9.4	5.1	185		3		24
28	77	63	70	1	65	88	0	5	0.00	T	4.9	1.3	217				24
29	69	57	63	-7	56	84	2	0	0.02		4.5	2.5	323		8		24
30	75	54	65	-5	54	72	0	0	0.00		6.5	5.3	308				24
AG/TL	76.6	53.7	65.2		53.4	70	74	86	3.90		7.1						
NORM	77.7	54.1	65.9				74	100	4.77								
DFN	-1.1	-0.4	-0.8				+0	-14	-0.87								

Temperature Data

AVERAGE MONTHLY 65.2
DEPARTURE FROM NORMAL -0.8
HIGHEST 87 ON 8
LOWEST 40 ON 5
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 0
MIN 32 OR BELOW 0
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 74
DEPARTURE FROM NORMAL 0
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 86
DEPARTURE FROM NORMAL -14

Precipitation Data

TOTAL FOR THE MONTH 3.90
DEPARTURE FROM NORMAL -0.87
GREATEST 24HR TOTAL 1.81
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 5
ò 0.10 INCH OR MORE PRECIP 3
ò 0.50 INCH OR MORE PRECIP 2
ò 1.00 INCH OR MORE PRECIP 2

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: May Year: 1998

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	83	57	70	0	58	74	0	5	0.00			4.5	2.7	290			23
2	88	56	72	2	59	67	0	7	0.00	T		4.0	1.9	176		3	24
3	79	62	71	0	60	74	0	6	0.60			7.6	4.6	303	27	3	24
4	82	56	69	-2	56	67	0	4	0.00			3.8	1.1	112			24
5	84	59	72	1	63	70	0	7	0.00			7.5	7.2	158			24
6	85	72	79	8	72	86	0	14	0.00	T		7.5	7.2	181		8	24
7	87	73	80	9	73	87	0	15	0.00			5.5	2.3	198	23	8	24
8	89	66	78	6	63	66	0	13	0.00			5.4	3.4	58			24
9	87	69	78	5	66	69	0	13	0.00	T		8.0	2.2	196	20	8	22

10	83	66	75	2	61	69	0	10	0.00		7.7	7.1	332	20				24
11	89	62	76	3	63	69	0	11	0.00		3.8	1.8	192					23
12	92	62	77	3	65	71	0	12	0.00		5.9	5.6	180		8			23
13	91	62	77	3	63	67	0	12	0.00		5.6	5.0	154		8			24
14	81	77	79	5	73	87	0	14	0.00	T	5.2	5.0	151		8			24
15	90	74	82	8	73	80	0	17	0.00		5.7	5.3	189		8			23
16	92	68	80	5	68	70	0	15	0.00		4.6	2.5	306		8			23
17	93	65	79	4	62	65	0	14	0.00		4.0	2.9	41					24
18	95	67	81	6	66	65	0	16	0.00		3.0	1.9	129					24
19	94	66	80	5	68	72	0	15	0.00		3.8	1.5	228		8			21
20	92	67	80	5	68	69	0	15	0.00		5.6	4.6	203		8			24
21	90	69	80	4	72	81	0	15	0.00		6.0	5.5	201		8			23
22	92	71	82	6	71	74	0	17	0.00		7.8	7.5	196		8			24
23	88	72	80	4	72	79	0	15	0.00		7.1	6.8	200		8			24
24	88	73	81	5	73	80	0	16	0.00		5.8	5.0	194		8			24
25	90	71	81	4	72	75	0	16	0.00		5.5	5.0	178		8			23
26	92	72	82	5	71	77	0	17	0.00		5.5	3.5	220					22
27	94	71	83	6	70	68	0	18	0.00		5.8	2.3	158					19
28	94	69	82	5	72	73	0	17	0.00		4.9	1.3	62					22
29	93	74	84	6	74	80	0	19	0.11		5.9	2.3	137					23
30	96	71	84	6	74	77	0	19	0.00		4.3	2.8	71		8			24
31	104	72	88	10	73	67	0	23	0.00		5.3	3.1	222		8			24
AG/TL	89.6	67.5	78.6		67.5	73	0	427	0.71		5.6							
NORM	85.2	63.4	74.3				8	296	5.47									
DFN	+4.4	+4.1	+4.2				-8	+131	-4.76									

Temperature Data

AVERAGE MONTHLY	78.6
DEPARTURE FROM NORMAL	+4.2
HIGHEST 104 ON 31	
LOWEST 56 ON 2	
NUMBER OF DAYS WITH	
MAX 32 OR BELOW	0
MAX 90 OR ABOVE	17
MIN 32 OR BELOW	0
MIN 0 OR BELOW	0
HEATING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	0
DEPARTURE FROM NORMAL	-8
COOLING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	427
DEPARTURE FROM NORMAL	+131

Precipitation Data

TOTAL FOR THE MONTH	0.71
DEPARTURE FROM NORMAL	-4.76
GREATEST 24HR TOTAL	0.60
NUMBER OF DAYS WITH	
ò 0.01 INCH OR MORE PRECIP	2
ò 0.10 INCH OR MORE PRECIP	2
ò 0.50 INCH OR MORE PRECIP	1
ò 1.00 INCH OR MORE PRECIP	0

T -- trace
M -- estimated; value may be less than actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: June Year: 1998

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs

1	103	80	92	14	71	56	0	27	0.00		7.2	6.7	232				24
2	100	76	88	9	72	61	0	23	0.00		7.3	6.9	206				23
3	100	76	88	9	75	70	0	23	0.00		7.3	7.1	195				24
4	98	81	90	11	77	72	0	25	0.00		8.1	7.5	205		8		22
5	89	68	79	0	74	90	0	14	1.04		7.5	4.1	56		3		24
6	77	62	70	-10	61	79	0	5	0.06		6.5	6.4	27		8		23
7	80	58	69	-11	58	69	0	4	0.00		5.3	5.0	64				24
8	88	63	76	-4	68	77	0	11	0.00		6.0	5.5	109				23
9	97	77	87	7	75	73	0	22	0.00		6.9	6.7	111				24
10	97	76	87	7	76	73	0	22	0.00		7.5	5.7	169		8		24
11	96	78	87	6	73	69	0	22	0.00		10.4	10.2	199	23			24
12	97	78	88	7	78	74	0	23	0.00		9.9	9.6	214	16			22
13	100	78	89	8	75	68	0	24	0.00		7.1	6.7	221				23
14	101	77	89	8	74	66	0	24	0.00	T	11.9	11.4	217	25			23
15	97	73	85	4	75	78	0	20	0.13		5.7	4.9	212	19	3	8	24
16	95	71	83	2	73	76	0	18	0.00		4.1	1.8	141				24
17	97	78	88	7	77	75	0	23	0.00		7.2	5.9	177	16			23
18	98	78	88	6	78	75	0	23	0.00		8.6	8.2	185	20			23
19	100	78	89	7	77	71	0	24	0.00	T	6.0	4.4	196	18			23
20	101	78	90	8	75	66	0	25	0.00		8.5	8.0	196				24
21	99	78	89	7	75	68	0	24	0.00		7.1	6.4	195				24
22	98	75	87	5	74	66	0	22	0.00		4.8	3.9	191				23
23	97	73	85	3	73	69	0	20	0.00		3.9	2.7	170				23
24	97	73	85	3	73	68	0	20	0.00		4.3	2.7	192				23
25	96	72	84	2	72	71	0	19	0.00		4.0	2.9	177				23
26	92	74	83	0	73	79	0	18	0.00	T	5.8	4.7	153	19			23
27	94	74	84	1	74	79	0	19	0.00		5.8	4.8	153	16			22
28	92	75	84	1	75	80	0	19	0.00	T	7.7	7.2	172	19			23
29	95	71	83	0	73	71	0	18	0.00		6.7	5.9	192				24
30	99	74	87	4	72	68	0	22	0.00	M	6.3	5.1	229	19			23
AG/TL	95.7	74.1	84.9		73.2	72	0	603	1.23		6.8						
NORM	91.9	70.2	81.1				0	481	4.47								
DFN	+3.8	+3.9	+3.8				+0	+122	-3.24								

Temperature Data

AVERAGE MONTHLY	84.9
DEPARTURE FROM NORMAL	+3.8
HIGHEST 103 ON 1	
LOWEST 58 ON 7	
NUMBER OF DAYS WITH	
MAX 32 OR BELOW	0
MAX 90 OR ABOVE	26
MIN 32 OR BELOW	0
MIN 0 OR BELOW	0
HEATING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	0
DEPARTURE FROM NORMAL	0
COOLING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	603
DEPARTURE FROM NORMAL	+122

Precipitation Data

TOTAL FOR THE MONTH	1.23
DEPARTURE FROM NORMAL	-3.24
GREATEST 24HR TOTAL	1.04
NUMBER OF DAYS WITH	
ò 0.01 INCH OR MORE PRECIP	3
ò 0.10 INCH OR MORE PRECIP	2
ò 0.50 INCH OR MORE PRECIP	1
ò 1.00 INCH OR MORE PRECIP	1

T -- trace
M -- estimated; value may be less than actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: July Year: 1998

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	99	73	86	3	75	79	0	21	0.04			5.0	2.6	252	22	3	23
2	82	72	77	-6	75	92	0	12	0.00			3.5	0.6	134		3	18
3	93	74	84	1	76	86	0	19	0.19			4.9	4.3	186			24
4	93	73	83	0	76	80	0	18	0.00			3.4	2.3	194			24
5	97	78	88	5	76	75	0	23	0.00			3.5	1.5	200			24
6	98	75	87	4	76	74	0	22	0.00 T			2.5	0.8	230			20
7	100	77	89	6	75	68	0	24	0.00			4.0	2.0	173			23
8	100	78	89	6	75	66	0	24	0.00			5.3	3.7	208			24
9	101	78	90	7	75	70	0	25	0.00			6.3	3.9	249	24	3	24
10	102	78	90	7	75	67	0	25	0.00			6.2	1.8	217	23	3	24
11	100	78	89	6	74	67	0	24	0.00 T			7.1	2.6	202			24
12	98	77	88	5	75	72	0	23	0.00			5.9	1.8	175		3	24
13	86	76	81	-2	76	87	0	16	0.16			3.3	1.4	90			24
14	85	74	80	-3	76	91	0	15	0.01			2.3	0.8	151			24
15	92	73	83	-1	76	82	0	18	0.00			1.8	1.0	71			24
16	94	74	84	0	76	80	0	19	0.00			3.4	2.0	63		8	21
17	93	72	83	-1	73	77	0	18	0.00			3.9	3.7	64		8	21
18	95	68	82	-2	71	73	0	17	0.00			2.0	1.3	66		1 2 8	23
19	97	71	84	0	72	68	0	19	0.00			3.2	1.6	119		8	23
20	99	73	86	2	73	69	0	21	0.00			2.6	1.2	162			22
21	96	74	85	1	73	76	0	20	0.00 T			3.4	2.1	145		3 8	24
22	83	75	79	-5	71	80	0	14	0.00			4.2	3.1	176		8	20
23	95	74	85	1	69	62	0	20	0.03			5.1	2.6	180	23	3	23
24	98	75	87	3	73	73	0	22	0.00 T			5.1	3.4	180	16	3	22
25	97	75	86	2	74	81	0	21	1.15			5.0	3.6	176	23	3	23
26	93	75	84	0	75	79	0	19	0.00			6.0	5.2	190			24
27	98	75	87	3	74	70	0	22	0.00			5.4	3.6	207			24
28	100	78	89	5	73	64	0	24	0.00			5.7	4.5	208			24
29	98	77	88	4	72	64	0	23	0.00			5.9	4.3	202			24
30	100	80	90	6	71	59	0	25	0.00			6.9	5.5	221	16		24
31	102	76	89	6	71	61	0	24	0.00			4.7	2.2	229			24
AG/TL	95.6	75.0	85.3		73.9	74	0	637	1.58			4.4					
NORM	94.3	72.7	83.5				0	574	3.50								
DFN	+1.3	+2.3	+1.8				+0	+63	-1.92								

Temperature Data		Precipitation Data		Weather Occurrences Legend
AVERAGE MONTHLY	85.3	TOTAL FOR THE MONTH	1.58	1 = fog
DEPARTURE FROM NORMAL	+1.8	DEPARTURE FROM NORMAL	-1.92	2 = fog reducing visibility to 1/4 mile or less
HIGHEST 102 ON 10		GREATEST 24HR TOTAL	1.15	3 = thunder
LOWEST 68 ON 18		NUMBER OF DAYS WITH		4 = ice pellets
NUMBER OF DAYS WITH		ò 0.01 INCH OR MORE PRECIP	6	5 = hail
MAX 32 OR BELOW	0	ò 0.10 INCH OR MORE PRECIP	3	6 = glaze or rime

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 MAX 90 OR ABOVE            27     ò 0.50 INCH OR MORE PRECIP  1      7 = blowing dust or sand: visibility 1/2 mile or less
 MIN 32 OR BELOW             0     ò 1.00 INCH OR MORE PRECIP  1      8 = smoke or haze
 MIN  0 OR BELOW             0                                        9 = blowing snow
HEATING DEGREE DAYS (BASE 65)                                        x = tornado
 TOTAL THIS MONTH           0
  DEPARTURE FROM NORMAL     0    T -- trace                          obs -- number of hourly observations received
COOLING DEGREE DAYS (BASE 65)    M -- estimated;                            by the SRCC for that day
 TOTAL THIS MONTH          637         value may be less than
  DEPARTURE FROM NORMAL   +63         actual daily total             * -- values use Daily Normals calculated by SRCC
Preliminary Daily Summary:  SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month:          August      Year: 1998
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	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	102	77	90	6	76	73	0	25	0.00			4.8	4.1	58	18		23
2	99	75	87	3	75	72	0	22	0.00			4.3	3.0	55			22
3	94	74	84	0	72	70	0	19	0.00			3.1	1.8	129		8	23
4	96	69	83	-1	69	68	0	18	0.00			2.8	0.9	51		8	23
5	97	70	84	1	71	73	0	19	0.00	T		2.7	0.5	263		8	23
6	89	73	81	-2	73	86	0	16	0.00			3.8	1.3	249		3	24
7	80	70	75	-8	72	95	0	10	0.19			2.2	1.5	118		1	23
8	91	69	80	-3	73	85	0	15	0.01			1.5	0.5	144		2	22
9	96	72	84	1	73	75	0	19	0.00			2.2	1.1	188			24
10	95	74	85	2	74	76	0	20	0.15			4.3	2.5	248			23
11	87	73	80	-3	72	81	0	15	0.00			3.6	1.5	283	18	3	21
12	80	71	76	-7	73	95	0	11	1.21			4.6	1.8	318	23	3	24
13	81	70	76	-7	74	95	0	11	0.18			3.2	1.8	218			24
14	88	72	80	-3	73	92	0	15	0.50			2.4	0.9	262		1 3	20
15	86	72	79	-4	74	92	0	14	0.04			2.5	0.7	18		8	24
16	87	70	79	-4	73	88	0	14	0.00			1.9	1.6	54			24
17	93	71	82	0	74	82	0	17	0.00			0.9	0.2	60		1	23
18	95	74	85	3	76	79	0	20	0.00			1.7	0.8	57			24
19	94	72	83	1	75	76	0	18	0.00			4.2	3.8	41		8	23
20	93	76	85	3	75	74	0	20	0.00			7.0	6.5	51		8	24
21	91	75	83	1	75	80	0	18	0.00			4.4	3.7	74		8	18
22	92	70	81	-1	69	68	0	16	0.00			3.7	2.9	63			21
23	95	69	82	0	72	73	0	17	0.00			1.6	1.4	57			24
24	95	73	84	2	75	78	0	19	0.00			1.6	1.0	153			23
25	98	74	86	4	74	75	0	21	0.00			1.6	0.2	346			24
26	100	75	88	7	73	69	0	23	0.00			1.9	0.8	51		8	21
27	100	73	87	6	74	71	0	22	0.00			2.3	1.3	64		8	24
28	100	73	87	6	73	71	0	22	0.00			1.9	0.7	20			23
29	98	73	86	5	75	75	0	21	0.00			4.0	3.5	46			22
30	91	75	83	2	75	82	0	18	0.00	T		2.9	2.1	39		8	22
31	93	74	84	3	75	84	0	19	0.00			2.8	1.7	22		3 8	19
AG/TL	92.8	72.5	82.7		73.5	79	0	554	2.28			3.0					
NORM	93.8	71.1	82.5				0	540	2.84								
DFN	-1.0	+1.4	+0.2				+0	+14	-0.56								

Temperature Data

AVERAGE MONTHLY	82.7
DEPARTURE FROM NORMAL	+0.2
HIGHEST 102 ON 1	
LOWEST 69 ON 4	
NUMBER OF DAYS WITH	
MAX 32 OR BELOW	0
MAX 90 OR ABOVE	23
MIN 32 OR BELOW	0
MIN 0 OR BELOW	0
HEATING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	0
DEPARTURE FROM NORMAL	0
COOLING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	554
DEPARTURE FROM NORMAL	+14

Precipitation Data

TOTAL FOR THE MONTH	2.28
DEPARTURE FROM NORMAL	-0.56
GREATEST 24HR TOTAL	1.21
NUMBER OF DAYS WITH	
ò 0.01 INCH OR MORE PRECIP	7
ò 0.10 INCH OR MORE PRECIP	5
ò 0.50 INCH OR MORE PRECIP	2
ò 1.00 INCH OR MORE PRECIP	1

T -- trace
M -- estimated; value may be less than actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: September Year: 1998

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	94	72	83	3	73	78	0	18	0.00			4.0	1.7	54			23
2	95	68	82	2	68	69	0	17	0.00			6.5	6.3	46	17	8	23
3	97	63	80	0	64	64	0	15	0.00			2.3	1.5	348		8	24
4	98	64	81	1	64	62	0	16	0.00			2.9	2.0	146			21
5	96	66	81	2	68	69	0	16	0.00			2.1	1.2	173	17	8	24
6	95	68	82	3	71	78	0	17	0.00			2.8	1.5	155		8	23
7	96	68	82	3	71	76	0	17	0.00			3.5	1.0	141			24
8	96	69	83	4	69	72	0	18	0.00			5.6	3.2	55	21		18
9	90	69	80	1	53	43	0	15	0.00			10.9	10.8	49	21		24
10	84	68	76	-3	64	67	0	11	0.01			7.1	7.0	64			23
11	77	70	74	-4	73	98	0	9	1.46			8.3	8.2	77	20		21
12	75	73	74	-4	73	99	0	9	3.52			8.1	7.1	108	21		24
13	82	74	78	0	74	92	0	13	0.74			6.6	5.2	141	17	2	18
14	83	74	79	1	75	94	0	14	0.48			4.4	3.0	155	14		24
15	85	74	80	3	75	88	0	15	0.00		T	3.3	1.1	60			23
16	90	71	81	4	74	84	0	16	0.00			3.6	2.8	41			21
17	92	72	82	5	74	79	0	17	0.00			6.4	6.1	33	17		23
18	92	71	82	6	74	82	0	17	0.19			5.0	4.1	41			23
19	90	72	81	5	75	86	0	16	0.05			2.0	1.3	85			24
20	91	72	82	6	77	89	0	17	0.00			3.0	1.9	53			22
21	93	74	84	8	78	86	0	19	0.01			2.2	0.4	43			23
22	93	74	84	9	75	81	0	19	0.00		T	4.3	4.0	4	20		23
23	89	73	81	6	71	77	0	16	0.00			6.9	6.7	37			22
24	91	68	80	5	70	79	0	15	0.00			2.1	1.3	46			23
25	90	68	79	5	72	86	0	14	0.00		T	2.0	1.2	126			22
26	91	67	79	5	73	85	0	14	0.00			1.3	0.3	154			24
27	94	72	83	9	74	78	0	18	0.00			5.4	4.9	27			23

28	93	76	85	12	73	71	0	20	0.00		9.8	9.6	15	26	22
29	94	74	84	12	73	74	0	19	0.00		8.3	7.9	8	18	24
30	94	70	82	10	72	81	0	17	0.00		1.5	0.9	349		23
AG/TL	90.7	70.5	80.6		71.3	79	0	474	6.46		4.7				
NORM	88.6	65.0	76.8				3	358	3.37						
DFN	+2.1	+5.5	+3.8				-3	+116	+3.09						

Temperature Data

AVERAGE MONTHLY	80.6
DEPARTURE FROM NORMAL	+3.8
HIGHEST 98 ON 4	
LOWEST 63 ON 3	
NUMBER OF DAYS WITH	
MAX 32 OR BELOW	0
MAX 90 OR ABOVE	23
MIN 32 OR BELOW	0
MIN 0 OR BELOW	0
HEATING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	0
DEPARTURE FROM NORMAL	-3
COOLING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	474
DEPARTURE FROM NORMAL	+116

Precipitation Data

TOTAL FOR THE MONTH	6.46
DEPARTURE FROM NORMAL	+3.09
GREATEST 24HR TOTAL	4.40
NUMBER OF DAYS WITH	
ò 0.01 INCH OR MORE PRECIP	8
ò 0.10 INCH OR MORE PRECIP	5
ò 0.50 INCH OR MORE PRECIP	3
ò 1.00 INCH OR MORE PRECIP	2

T -- trace
M -- estimated; value may be less than actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: October Year: 1998

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	91	68	80	8	72	80	0	15	0.00			4.9	4.3	31			24
2	91	67	79	7	71	79	0	14	0.00			4.6	1.9	174			23
3	79	69	74	2	71	91	0	9	0.25			5.3	2.8	215	17		24
4	89	67	78	7	72	86	0	13	0.01			7.0	6.6	173	19		23
5	87	71	79	9	73	84	0	14	0.00			8.7	8.4	165	22		23
6	78	67	73	3	72	90	0	8	0.22			7.1	0.5	179	17	3 8	24
7	75	56	66	-3	57	76	0	1	0.00 T			6.0	5.8	359	14		24
8	76	52	64	-5	53	72	1	0	0.00			4.9	4.4	18	14	1	24
9	73	49	61	-8	51	73	4	0	0.00			4.5	3.1	23			24
10	76	48	62	-6	52	77	3	0	0.00			1.5	0.5	109			24
11	80	48	64	-4	54	78	1	0	0.00			1.3	0.3	107		2	24
12	81	50	66	-2	56	75	0	1	0.01			3.2	2.8	350		1	23
13	82	55	69	2	59	76	0	4	0.01			4.4	4.2	26			24
14	82	52	67	0	56	79	0	2	0.00			1.9	0.8	75			23
15	83	52	68	2	62	80	0	3	0.03			3.2	2.3	160	15	1 8	23
16	86	69	78	12	69	79	0	13	0.00			6.6	5.7	158	19		24
17	86	68	77	11	68	78	0	12	0.00			7.8	7.3	164	20		24
18	79	65	72	6	70	89	0	7	0.05			7.4	2.7	201			22

19	67	61	64	-2	61	94	1	0	0.18		6.4	6.1	24			24
20	67	58	63	-2	58	86	2	0	0.26		6.5	6.2	30			24
21	75	56	66	2	52	66	0	1	0.00		5.4	5.2	12			22
22	68	43	56	-8	41	56	9	0	0.00		9.3	8.9	31	20		24
23	69	38	54	-10	40	69	11	0	0.00		4.2	3.9	47			24
24	73	38	56	-7	43	71	9	0	0.00		1.2	0.9	73			23
25	77	40	59	-4	50	79	6	0	0.00		0.6	0.3	348			24
26	81	45	63	0	54	78	2	0	0.00		0.6	0.5	67		1	22
27	82	50	66	4	55	79	0	1	0.00	T	0.6	0.4	158		1	24
28	81	49	65	3	56	79	0	0	0.00		1.4	1.1	190			24
29	82	55	69	7	63	88	0	4	0.00		3.4	2.8	199		2	23
30	83	61	72	11	65	86	0	7	0.01		2.4	1.7	221		1 2	24
31	83	58	71	10	62	84	0	6	0.00		1.4	0.8	176		1	24
AG/TL	79.4	55.6	67.5		59.3	79	49	135	1.03		4.3					
NORM	79.6	53.0	66.3				68	108	3.91							
DFN	-0.2	+2.6	+1.2				-19	+27	-2.88							

Temperature Data

AVERAGE MONTHLY 67.5
DEPARTURE FROM NORMAL +1.2
HIGHEST 91 ON 1
LOWEST 38 ON 23
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 2
MIN 32 OR BELOW 0
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 49
DEPARTURE FROM NORMAL -19
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 135
DEPARTURE FROM NORMAL +27

Precipitation Data

TOTAL FOR THE MONTH 1.03
DEPARTURE FROM NORMAL -2.88
GREATEST 24HR TOTAL 0.30
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 10
ò 0.10 INCH OR MORE PRECIP 4
ò 0.50 INCH OR MORE PRECIP 0
ò 1.00 INCH OR MORE PRECIP 0

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: November Year: 1998

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	83	54	69	8	62	83	0	4	0.62			6.4	4.3	174	17	1 3	23
2	69	51	60	-1	52	78	5	0	0.00	T		7.2	6.1	268	17		24
3	73	56	65	4	54	77	0	0	0.00			3.8	3.3	294			24
4	62	51	57	-4	51	85	8	0	0.01			6.3	6.2	9			24
5	55	42	49	-11	41	71	16	0	0.00			7.9	7.7	355	16		23
6	57	35	46	-13	34	68	19	0	0.00	T		3.4	2.9	47			23
7	53	45	49	-10	45	88	16	0	0.54			3.9	1.6	82		3	24
8	58	50	54	-4	54	98	11	0	0.78			4.9	4.5	36		3	22
9	79	55	67	9	63	86	0	2	0.00			9.3	8.0	165	21	1 2	23

10	75	45	60	2	52	72	5	0	0.34		9.2	4.3	253	25	3		24
11	65	41	53	-4	35	61	12	0	0.00		6.5	6.0	38	17			24
12	50	43	47	-10	42	84	18	0	0.31		4.9	4.1	52				24
13	58	46	52	-5	51	95	13	0	0.97		4.8	4.1	59				24
14	57	53	55	-1	55	100	10	0	1.23		5.4	5.0	18				23
15	60	53	57	1	56	96	8	0	0.00		7.5	7.2	34		1		24
16	71	49	60	4	55	90	5	0	0.00		2.3	1.9	320		8		24
17	57	49	53	-2	53	100	12	0	0.01		1.9	0.6	62		1	2	24
18	65	50	58	3	56	94	7	0	0.01		2.7	2.4	183		1	2	24
19	76	50	63	8	61	91	2	0	0.01		2.7	2.3	171		1		24
20	69	42	56	1	52	88	9	0	0.56		9.0	5.2	12	21	3		22
21	54	39	47	-7	41	83	18	0	0.00		5.1	4.7	46				23
22	69	35	52	-2	46	83	13	0	0.00		1.1	0.4	99		1		24
23	73	50	62	8	59	90	3	0	0.00		2.9	1.9	271		8		22
24	73	53	63	9	58	86	2	0	0.01		1.5	0.7	104		1		24
25	78	54	66	13	61	86	0	1	0.00		5.6	4.5	224		1		23
26	75	48	62	9	53	79	3	0	0.00		2.7	2.3	45		1		24
27	76	44	60	7	55	85	5	0	0.00	T	1.1	0.9	166				23
28	79	55	67	15	60	86	0	2	0.01		3.1	2.9	192				23
29	76	57	67	15	60	84	0	2	0.00		6.8	6.7	172		2		24
30	77	55	66	14	60	82	0	1	0.03		7.5	4.2	195				23
AG/TL	67.4	48.3	57.8		52.6	85	220	12	5.44		4.9						
NORM	67.7	44.6	56.2				282	16	4.45								
DFN	-0.3	+3.7	+1.6				-62	-4	+0.99								

Temperature Data

AVERAGE MONTHLY 57.8
DEPARTURE FROM NORMAL +1.6
HIGHEST 83 ON 1
LOWEST 35 ON 6
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 0
MIN 32 OR BELOW 0
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 220
DEPARTURE FROM NORMAL -62
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 12
DEPARTURE FROM NORMAL -4

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: December Year: 1998

Precipitation Data

TOTAL FOR THE MONTH 5.44
DEPARTURE FROM NORMAL +0.99
GREATEST 24HR TOTAL 1.95
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 15
ò 0.10 INCH OR MORE PRECIP 8
ò 0.50 INCH OR MORE PRECIP 6
ò 1.00 INCH OR MORE PRECIP 1

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs

1	73	47	60	8	54	84	5	0	0.01	4.0	3.7	42		1	24
2	76	47	62	11	57	88	3	0	0.00	2.9	2.6	180		1	24
3	74	59	67	16	58	82	0	2	0.01	3.8	3.5	161		1 2	24
4	80	60	70	19	63	77	0	5	0.01	8.6	8.3	181	22		24
5	81	63	72	22	64	78	0	7	0.00	8.0	7.7	188	17		24
6	81	63	72	22	67	84	0	7	0.06	9.1	8.9	175	22		24
7	71	53	62	12	61	90	3	0	0.04	7.2	3.8	29			24
8	53	41	47	-3	46	88	18	0	0.40	7.5	6.9	6			24
9	56	37	47	-3	39	79	18	0	0.02	8.0	7.6	44			21
10	49	44	47	-2	43	89	18	0	0.76	10.4	10.0	34	22		22
11	45	43	44	-5	43	94	21	0	3.00	10.9	10.7	35	21		24
12	48	45	47	-2	44	93	18	0	0.37	7.3	5.5	311			23
13	59	40	50	1	43	82	15	0	0.00	5.8	5.5	321		1	24
14	58	37	48	-1	36	70	17	0	0.00	5.0	4.7	8		1	24
15	58	33	46	-2	34	72	19	0	0.00	2.8	2.6	10			24
16	64	29	47	-1	35	69	18	0	0.00	3.9	3.2	255			24
17	60	35	48	0	31	58	17	0	0.00	6.0	5.5	343			22
18	58	32	45	-3	39	70	20	0	0.23	5.4	4.6	154	16		24
19	66	49	58	10	54	90	7	0	0.50	4.9	1.7	23			24
20	64	48	56	8	52	89	9	0	0.17	3.4	2.6	61		1 2 8	24
21	75	47	61	14	62	86	4	0	0.46	10.0	4.9	183	37	3	24
22	41	27	34	-13	25	75	31	0	0.50	13.5	13.0	26	24	3	24
23	33	26	30	-17	28	93	35	0	0.46	7.2	7.0	35			24
24	32	27	30	-17	26	88	35	0	0.05	2.9	2.9	4			24
25	35	25	30	-17	25	86	35	0	0.00	3.6	3.5	2		2	23
26	39	27	33	-13	28	91	32	0	0.00	0.6	0.3	38		2	24
27	55	26	41	-5	42	92	24	0	0.41	3.5	0.6	125		2	24
28	49	42	46	0	42	95	19	0	0.21	5.8	4.8	345			24
29	55	37	46	0	40	80	19	0	0.00	7.1	4.4	311	21		24
30	47	28	38	-8	26	66	27	0	0.00	5.0	2.0	81	15		23
31	55	35	45	-1	37	77	20	0	0.00	3.7	3.7	57			23
AG/TL	57.7	40.4	49.0		43.4	82	507	21	7.67	6.1					
NORM	58.8	38.0	48.4				525	10	5.23						
DFN	-1.1	+2.4	+0.6				-18	+11	+2.44						

Temperature Data

AVERAGE MONTHLY 49.0
DEPARTURE FROM NORMAL +0.6
HIGHEST 81 ON 5
LOWEST 25 ON 25
NUMBER OF DAYS WITH
MAX 32 OR BELOW 1
MAX 90 OR ABOVE 0
MIN 32 OR BELOW 9
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 507
DEPARTURE FROM NORMAL -18
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 21
DEPARTURE FROM NORMAL +11

Precipitation Data

TOTAL FOR THE MONTH 7.67
DEPARTURE FROM NORMAL +2.44
GREATEST 24HR TOTAL 3.06
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 19
ò 0.10 INCH OR MORE PRECIP 12
ò 0.50 INCH OR MORE PRECIP 4
ò 1.00 INCH OR MORE PRECIP 1

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: January Year: 1999

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv		Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	64	42	53	7	48	88	12	0	0.43				6.3	4.6	105	23	3	23
2	64	32	48	2	40	79	17	0	1.79				9.9	6.1	308	27	3	24
3	34	24	29	-17	15	56	36	0	0.00				8.4	7.7	322	18		22
4	35	20	28	-18	12	56	37	0	0.00				5.6	5.4	333			24
5	44	19	32	-14	21	67	33	0	0.00				5.2	5.2	168			22
6	52	38	45	-1	41	87	20	0	0.14				3.9	2.6	140			23
7	61	51	56	10	56	97	9	0	0.77				4.0	3.5	158	16	2	24
8	72	45	59	14	58	90	6	0	0.71				10.3	5.4	187	29		23
9	41	27	34	-11	27	72	31	0	0.24				10.5	9.9	16	25	3	24
10	46	24	35	-10	25	72	30	0	0.00				1.9	0.5	120			22
11	61	27	44	-1	33	67	21	0	0.00				7.3	7.1	192			24
12	70	48	59	14	49	71	6	0	0.00				11.1	11.0	184	24		22
13	75	53	64	19	56	77	1	0	0.00	T			7.4	4.7	201	19		23
14	49	32	41	-4	37	87	24	0	0.00				6.8	6.6	6			24
15	54	27	41	-5	33	80	24	0	0.00				1.6	1.3	135		1 2	24
16	69	35	52	6	46	74	13	0	0.00				7.4	7.0	176			24
17	79	55	67	21	57	77	0	2	0.00				9.6	8.6	193	25	1	24
18	67	41	54	8	36	59	11	0	0.00				2.7	2.1	342		1	23
19	73	37	55	9	46	72	10	0	0.00	T			6.5	6.2	183	19		24
20	78	61	70	24	60	80	0	5	0.00				8.0	7.6	193			23
21	80	65	73	27	64	81	0	8	0.75				11.9	11.8	183	27	3	20
22	70	54	62	16	57	90	3	0	0.85				9.5	1.3	26	27	3	22
23	47	37	42	-4	37	76	23	0	0.01				9.0	8.7	294			22
24	60	31	46	0	38	79	19	0	0.00				3.3	3.0	169		2	24
25	76	40	58	11	48	79	7	0	0.00				2.6	1.8	210			24
26	74	41	58	11	48	74	7	0	0.00				4.3	3.7	169		1	24
27	72	52	62	15	57	83	3	0	0.00				4.1	3.5	196			23
28	69	56	63	16	61	96	2	0	0.79	M			3.2	2.6	141			19
29	65	54	60	13	59	97	5	0	0.66	M			9.1	6.8	42	23	3	24
30	71	50	61	14	55	85	4	0	0.46	M			7.8	0.9	310		3	24
31	58	41	50	2	42	77	15	0	0.00				4.4	3.2	279			23
AG/TL	62.3	40.6	51.5		43.9	78	429	15	7.60				6.6					
NORM	56.0	35.9	46.0				597	7	5.46									
DFN	+6.3	+4.7	+5.5				-168	+8	+2.14									

Temperature Data

AVERAGE MONTHLY 51.5
DEPARTURE FROM NORMAL +5.5
HIGHEST 80 ON 21
LOWEST 19 ON 5
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0

Precipitation Data

TOTAL FOR THE MONTH 7.60
DEPARTURE FROM NORMAL +2.14
GREATEST 24HR TOTAL 2.19
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 12
ò 0.10 INCH OR MORE PRECIP 11

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime

```
 MAX 90 OR ABOVE             0     ò 0.50 INCH OR MORE PRECIP  7      7 = blowing dust or sand: visibility 1/2 mile or less
 MIN 32 OR BELOW            10     ò 1.00 INCH OR MORE PRECIP  1      8 = smoke or haze
 MIN  0 OR BELOW             0                                        9 = blowing snow
HEATING DEGREE DAYS (BASE 65)                                        x = tornado
 TOTAL THIS MONTH          429
  DEPARTURE FROM NORMAL   -168    T -- trace                         obs -- number of hourly observations received
COOLING DEGREE DAYS (BASE 65)     M -- estimated;                          by the SRCC for that day
 TOTAL THIS MONTH           15         value may be less than
  DEPARTURE FROM NORMAL     +8         actual daily total           * -- values use Daily Normals calculated by SRCC
Preliminary Daily Summary:  SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month:        February      Year: 1999
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	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	55	41	48	0	44	87	17	0	0.17			1.4	0.6	194			23
2	65	46	56	8	47	78	9	0	0.00			6.9	3.8	288			22
3	67	41	54	6	49	79	11	0	0.00			5.7	5.0	183			24
4	67	43	55	7	44	69	10	0	0.01			4.7	3.2	41		8	23
5	72	38	55	6	43	65	10	0	0.00			3.6	2.9	159			24
6	78	56	67	18	62	82	0	2	0.00			7.8	7.4	190	24		24
7	82	55	69	20	54	63	0	4	0.01			9.3	8.6	232	21		24
8	80	50	65	16	60	80	0	0	0.00			5.6	5.3	193	18		24
9	80	64	72	22	66	87	0	7	0.00			5.9	5.2	176			23
10	81	65	73	23	65	81	0	8	0.00 T			7.8	7.5	184			24
11	81	44	63	13	56	73	2	0	0.08			13.7	6.0	231	27		24
12	54	38	46	-4	23	45	19	0	0.07			11.0	9.8	321	21		24
13	55	37	46	-5	25	47	19	0	0.00			7.1	5.2	3	18		24
14	56	29	43	-8	28	61	22	0	0.00			2.0	1.3	165			24
15	67	33	50	-1	40	70	15	0	0.00			6.4	6.3	163			23
16	74	50	62	11	53	74	3	0	0.00 T			7.3	5.1	206	19		23
17	59	39	49	-3	44	85	16	0	0.34			6.2	5.7	22			23
18	66	36	51	-1	42	75	14	0	0.00			6.0	1.2	242		8	24
19	58	41	50	-2	38	69	15	0	0.00			5.7	5.0	335			24
20	60	35	48	-4	40	79	17	0	0.04			3.6	2.8	41			23
21	45	32	39	-13	34	78	26	0	0.00			7.8	7.0	14	20	1 8	24
22	51	26	39	-13	25	60	26	0	0.00			4.2	2.3	114			23
23	67	41	54	1	34	51	11	0	0.00 T			8.3	5.7	277	25		24
24	64	35	50	-4	34	57	15	0	0.00			4.7	1.9	132			24
25	78	43	61	7	52	76	4	0	0.00			5.8	5.3	231			22
26	76	57	67	13	61	86	0	2	0.06			7.4	7.2	179			23
27	76	57	67	13	60	83	0	2	0.88			9.2	6.8	227	22		23
28	72	46	59	4	35	44	6	0	0.00			6.9	6.2	293	14		24
AG/TL	67.4	43.5	55.5		44.9	71	287	25	1.66			6.5					
NORM	61.9	40.0	51.0				400	6	4.34								
DFN	+5.5	+3.5	+4.5				-113	+19	-2.68								

Temperature Data

AVERAGE MONTHLY	55.5
DEPARTURE FROM NORMAL	+4.5
HIGHEST 82 ON 7	
LOWEST 26 ON 22	
NUMBER OF DAYS WITH	
MAX 32 OR BELOW	0
MAX 90 OR ABOVE	0
MIN 32 OR BELOW	3
MIN 0 OR BELOW	0
HEATING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	287
DEPARTURE FROM NORMAL	-113
COOLING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	25
DEPARTURE FROM NORMAL	+19

Precipitation Data

TOTAL FOR THE MONTH	1.66
DEPARTURE FROM NORMAL	-2.68
GREATEST 24HR TOTAL	0.94
NUMBER OF DAYS WITH	
ò 0.01 INCH OR MORE PRECIP	9
ò 0.10 INCH OR MORE PRECIP	3
ò 1.00 INCH OR MORE PRECIP	0

T -- trace
M -- estimated; value may be less than actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: March Year: 1999

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv		Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	80	39	60	5	43	56	5	0	0.00				4.1	3.4	174			21
2	69	54	62	7	59	90	3	0	0.81				7.3	4.4	203	29	3	24
3	58	39	49	-6	33	58	16	0	0.00				7.1	6.6	335	20		23
4	65	33	49	-6	35	61	16	0	0.00				5.3	5.2	161	15		24
5	73	51	62	7	55	74	3	0	0.00	T			11.0	10.6	180	23		24
6	68	48	58	2	52	83	7	0	0.00				9.8	7.3	41	20		24
7	53	38	46	-10	35	68	19	0	0.00	T			12.5	12.2	51	27		24
8	69	50	60	3	48	70	5	0	1.59				8.9	6.6	162	27	3	23
9	70	50	60	3	46	67	5	0	0.00				5.7	3.9	315			24
10	63	46	55	-2	47	75	10	0	0.00	T			5.7	5.0	67			24
11	57	47	52	-5	45	79	13	0	0.07				10.1	9.9	46	18	3	23
12	49	45	47	-11	44	88	18	0	0.62				8.7	8.5	68	18	3	24
13	50	44	47	-11	46	95	18	0	0.05				8.4	4.9	27	17	3	12
14	44	37	41	-17	37	84	24	0	0.03				10.6	10.1	319	19		23
15	60	33	47	-11	31	61	18	0	0.00				3.6	3.2	348			24
16	68	33	51	-7	39	66	14	0	0.00				4.0	3.6	164			24
17	71	44	58	-1	50	79	7	0	0.00				4.0	2.8	191			24
18	70	46	58	-1	52	80	7	0	0.00				5.7	5.6	48			22
19	69	50	60	1	47	63	5	0	0.00				6.2	6.0	53			24
20	67	53	60	1	48	69	5	0	0.01				8.0	7.3	296	22		24
21	72	44	58	-2	45	68	7	0	0.00				5.6	4.2	356			24
22	73	41	57	-3	44	65	8	0	0.00				4.6	4.2	162			23
23	77	47	62	2	57	77	3	0	0.00				6.4	6.0	197	19		24
24	68	56	62	2	60	96	3	0	0.64				5.4	1.4	41		3	22
25	65	50	58	-3	48	70	7	0	0.64				8.9	7.8	50		3	18
26	59	40	50	-11	35	58	15	0	0.00				7.0	6.8	56			24
27	65	37	51	-10	38	63	14	0	0.00				4.4	3.3	72			24

28	72	44	58	-3	50	74	7	0	0.08	4.4	3.4	88		24
29	62	54	58	-3	54	87	7	0	0.25	9.8	9.4	46	18	24
30	60	55	58	-4	56	98	7	0	0.76	6.9	6.7	62		22
31	64	56	60	-2	57	93	5	0	0.00	3.9	1.2	255		24
AG/TL	64.8	45.3	55.0		46.3	75	301	0	5.55	6.9				
NORM	69.7	47.1	58.4				233	28	5.53					
DFN	-4.9	-1.8	-3.4				+68	-28	+0.02					

Temperature Data

AVERAGE MONTHLY 55.0
DEPARTURE FROM NORMAL -3.4
HIGHEST 80 ON 1
LOWEST 33 ON 4
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 0
MIN 32 OR BELOW 0
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 301
DEPARTURE FROM NORMAL +68
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 0
DEPARTURE FROM NORMAL -28

Precipitation Data

TOTAL FOR THE MONTH 5.55
DEPARTURE FROM NORMAL +0.02
GREATEST 24HR TOTAL 1.72
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 12
ò 0.10 INCH OR MORE PRECIP 7
ò 0.50 INCH OR MORE PRECIP 6
ò 1.00 INCH OR MORE PRECIP 1

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: April Year: 1999

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	77	54	66	4	61	84	0	1	0.00			6.2	5.5	164	14		24
2	75	63	69	6	68	91	0	4	0.00			5.2	4.3	159			24
3	81	65	73	10	68	85	0	8	2.26			10.7	9.4	180	26	3	24
4	81	62	72	9	66	87	0	7	2.14			7.0	3.9	155	22	3	24
5	83	64	74	11	68	87	0	9	0.34			8.2	4.7	185	22	3	24
6	80	56	68	4	58	71	0	3	0.00			3.7	2.8	54			23
7	85	60	73	9	67	83	0	8	0.00			4.5	4.0	197			24
8	83	67	75	11	68	81	0	10	0.00			10.2	10.0	194	21		24
9	89	71	80	16	69	75	0	15	0.00			10.0	9.6	217	22		24
10	89	69	79	15	68	76	0	14	0.00			9.4	8.9	204	23		24
11	85	60	73	9	52	51	0	8	0.00			3.8	3.1	339			24
12	75	53	64	-1	52	66	1	0	0.00			5.6	5.4	50	20		24
13	77	53	65	0	53	67	0	0	0.00			4.2	3.0	76			24
14	76	57	67	2	65	91	0	2	1.76			8.2	5.1	185	21	3	24
15	71	45	58	-8	48	71	7	0	0.00			12.2	11.4	289	27		24
16	65	42	54	-12	36	56	11	0	0.00			8.3	7.9	285	20		24
17	67	39	53	-13	33	49	12	0	0.00			10.0	9.5	297	29		23
18	71	39	55	-11	41	62	10	0	0.00			4.2	3.7	254	16		23

19	81	47	64	-3	56	72	1	0	0.00		8.5	8.0	225	20		23
20	83	60	72	5	62	75	0	7	0.00		8.6	8.2	209	17		24
21	83	61	72	5	61	71	0	7	0.00		11.0	10.8	192	25		23
22	86	65	76	9	66	72	0	11	0.00	T	11.0	10.7	181	25		23
23	88	72	80	13	73	82	0	15	0.00		5.6	5.2	174			23
24	90	66	78	10	70	83	0	13	0.00		5.5	1.4	157	21		24
25	85	62	74	5	67	84	0	9	0.00		4.9	2.0	99		8	23
26	83	64	74	5	67	92	0	9	0.74		6.0	4.9	177	20		24
27	85	62	74	5	63	78	0	9	0.01		4.8	3.7	256	19		24
28	87	59	73	4	61	70	0	8	0.00		2.3	1.4	41		1	24
29	76	61	69	-1	60	85	0	4	0.02		8.2	7.9	27			11
30	75	53	64	-6	51	64	1	0	0.00		9.0	8.7	44	23		24
AG/TL	80.4	58.4	69.4		59.9	75	43	181	7.27		7.2					
NORM	77.7	54.1	65.9				74	100	4.77							
DFN	+2.7	+4.3	+3.5				-31	+81	+2.50							

Temperature Data

AVERAGE MONTHLY 69.4
DEPARTURE FROM NORMAL +3.5
HIGHEST 90 ON 24
LOWEST 39 ON 17
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 1
MIN 32 OR BELOW 0
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 43
DEPARTURE FROM NORMAL -31
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 181
DEPARTURE FROM NORMAL +81

Precipitation Data

TOTAL FOR THE MONTH 7.27
DEPARTURE FROM NORMAL +2.50
GREATEST 24HR TOTAL 2.64
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 7
ò 0.10 INCH OR MORE PRECIP 5
ò 0.50 INCH OR MORE PRECIP 4
ò 1.00 INCH OR MORE PRECIP 3

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: May Year: 1999

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	78	49	64	-6	51	67	1	0	0.00			3.0	2.5	45			24
2	81	49	65	-5	53	65	0	0	0.00	T		3.0	1.3	170			24
3	81	58	70	-1	46	51	0	5	0.04			5.9	4.5	175	20	3 8	24
4	79	66	73	2	67	84	0	8	0.90			9.7	9.4	163	25	3	23
5	87	66	77	6	67	76	0	12	0.09			9.1	6.2	191	18	8	23
6	80	57	69	-2	50	54	0	4	0.00			5.5	4.8	301			23
7	81	52	67	-4	47	56	0	2	0.00			4.6	4.1	285	19		24
8	88	54	71	-1	52	56	0	6	0.00			4.5	4.1	203			24
9	89	54	72	-1	54	56	0	7	0.00			3.7	3.0	153	14		23

10	78	62	70	-3	64	82	0	5	0.08		5.9	4.7	162	17			24
11	79	66	73	0	65	82	0	8	0.00	T	3.8	1.4	118				22
12	81	64	73	-1	66	83	0	8	0.30		4.2	2.2	208		3		23
13	81	59	70	-4	56	65	0	5	0.00		5.6	4.5	323				23
14	84	53	69	-5	54	61	0	4	0.00		1.8	0.6	133				24
15	90	61	76	2	66	71	0	11	0.00		6.0	5.3	176				24
16	90	70	80	5	70	72	0	15	0.00		7.3	6.8	176				24
17	87	65	76	1	69	77	0	11	0.37		7.5	4.5	170	24	3		24
18	80	62	71	-4	63	78	0	6	0.00		6.1	5.2	12				24
19	82	57	70	-5	56	65	0	5	0.00		3.8	3.0	48				24
20	86	56	71	-4	63	71	0	6	0.00		3.0	1.8	86				24
21	87	69	78	2	68	76	0	13	0.00		5.4	4.8	220				24
22	90	70	80	4	70	75	0	15	0.00		4.8	4.4	233				24
23	90	69	80	4	68	73	0	15	0.10		7.0	4.3	280	20			24
24	84	62	73	-3	58	61	0	8	0.00		5.1	4.6	355				24
25	85	59	72	-5	62	69	0	7	0.00	T	3.6	2.9	208		8		24
26	83	67	75	-2	68	83	0	10	0.00	T	4.3	2.3	22				24
27	83	65	74	-3	61	66	0	9	0.00		5.0	4.3	56				24
28	86	60	73	-4	60	63	0	8	0.00		2.4	1.9	79				24
29	87	65	76	-2	67	77	0	11	0.47		1.8	0.6	106				23
30	83	67	75	-3	70	91	0	10	0.36		3.8	3.0	180		3		24
31	84	67	76	-2	69	88	0	11	0.36		5.6	4.3	196	15			24
AG/TL	84.0	61.3	72.7		61.3	71	1	245	3.07		4.9						
NORM	85.2	63.4	74.3				8	296	5.47								
DFN	-1.2	-2.1	-1.7				-7	-51	-2.40								

Temperature Data

AVERAGE MONTHLY 72.7
DEPARTURE FROM NORMAL -1.7
HIGHEST 90 ON 15
LOWEST 49 ON 1
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 4
MIN 32 OR BELOW 0
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 1
DEPARTURE FROM NORMAL -7
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 245
DEPARTURE FROM NORMAL -51

Precipitation Data

TOTAL FOR THE MONTH 3.07
DEPARTURE FROM NORMAL -2.40
GREATEST 24HR TOTAL 0.96
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 10
ò 0.10 INCH OR MORE PRECIP 7
ò 0.50 INCH OR MORE PRECIP 1
ò 1.00 INCH OR MORE PRECIP 0

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: June Year: 1999

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs

1	90	68	79	1	72	78	0	14	0.00		8.1	7.8	185	15	1	23
2	91	71	81	2	72	76	0	16	0.00		5.5	5.1	184			24
3	91	73	82	3	73	77	0	17	0.00		4.8	4.5	185			23
4	92	72	82	3	73	75	0	17	0.00		4.4	3.9	188			24
5	93	71	82	3	72	77	0	17	0.00		4.0	3.3	171	14		23
6	94	71	83	3	72	74	0	18	0.03		4.5	1.1	146	19		24
7	91	69	80	0	71	77	0	15	0.00		3.3	1.8	154			24
8	91	68	80	0	72	82	0	15	0.69		1.5	0.5	65			24
9	91	70	81	1	71	76	0	16	0.01		3.4	1.9	168			24
10	90	68	79	-1	71	84	0	14	0.12		2.8	0.9	201		3	22
11	90	68	79	-2	71	85	0	14	0.00	T	1.9	0.5	173	16		23
12	90	71	81	0	71	84	0	16	1.25		2.2	0.4	80			23
13	88	70	79	-2	73	85	0	14	0.00	T	2.0	0.8	282			24
14	85	73	79	-2	74	90	0	14	1.22		4.5	3.2	17			24
15	86	72	79	-2	69	76	0	14	0.00		7.2	7.0	35			23
16	86	69	78	-3	66	72	0	13	0.00	T	4.2	3.9	34			24
17	84	64	74	-7	62	66	0	9	0.00		8.2	7.9	36	17		24
18	85	59	72	-10	59	65	0	7	0.00		5.2	4.7	45			24
19	88	60	74	-8	62	68	0	9	0.00		1.9	1.4	68			24
20	89	65	77	-5	68	73	0	12	0.00		2.6	1.7	91			24
21	90	70	80	-2	65	66	0	15	0.00		4.3	3.0	77			24
22	89	69	79	-3	72	88	0	14	0.10		3.9	2.3	139	21	3	24
23	83	74	79	-3	75	96	0	14	1.68		5.7	5.5	181	30		24
24	91	74	83	1	76	89	0	18	0.70		5.9	5.1	211		3	24
25	86	74	80	-2	76	95	0	15	2.58		4.4	2.8	184		1	23
26	90	74	82	-1	76	93	0	17	1.72		8.2	6.6	193			24
27	92	74	83	0	77	81	0	18	0.00		8.4	8.1	211	18		23
28	92	79	86	3	77	79	0	21	0.00		8.9	8.8	211			24
29	89	77	83	0	77	86	0	18	0.08		6.2	5.3	222			24
30	89	74	82	-1	74	80	0	17	0.00		7.0	5.9	202	15		23
AG/TL	89.2	70.4	79.8		71.3	80	0	448	10.18		4.8					
NORM	91.9	70.2	81.1				0	481	4.47							
DFN	-2.7	+0.2	-1.3				+0	-33	+5.71							

Temperature Data

AVERAGE MONTHLY	79.8
DEPARTURE FROM NORMAL	-1.3
HIGHEST 94 ON 6	
LOWEST 59 ON 18	
NUMBER OF DAYS WITH	
MAX 32 OR BELOW	0
MAX 90 OR ABOVE	17
MIN 32 OR BELOW	0
MIN 0 OR BELOW	0
HEATING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	0
DEPARTURE FROM NORMAL	0
COOLING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	448
DEPARTURE FROM NORMAL	-33

Precipitation Data

TOTAL FOR THE MONTH	10.18
DEPARTURE FROM NORMAL	+5.71
GREATEST 24HR TOTAL	3.27
NUMBER OF DAYS WITH	
ò 0.01 INCH OR MORE PRECIP	12
ò 0.10 INCH OR MORE PRECIP	9
ò 0.50 INCH OR MORE PRECIP	7
ò 1.00 INCH OR MORE PRECIP	5

T -- trace
M -- estimated; value may be less than actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: July Year: 1999

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	93	75	84	1	76	79	0	19	0.00			8.0	7.8	191	20		24
2	92	74	83	0	76	80	0	18	0.00			5.2	4.7	178			24
3	93	74	84	1	75	80	0	19	0.00 T			2.9	1.5	143	21		24
4	92	73	83	0	75	83	0	18	0.07			3.7	1.6	140			24
5	93	73	83	0	75	79	0	18	0.00			1.3	0.8	181			24
6	95	76	86	3	77	80	0	21	0.00			2.9	2.0	14			24
7	93	72	83	0	75	89	0	18	0.85			2.8	0.7	287		3	24
8	93	71	82	-1	74	83	0	17	0.00 T			2.0	1.1	164			24
9	90	74	82	-1	75	87	0	17	0.00 T			3.9	3.1	181		8	24
10	91	74	83	0	75	85	0	18	0.03			4.2	3.0	205			24
11	86	72	79	-4	49	48	0	14	0.47			3.1	1.5	346			18
12	85	68	77	-6	69	81	0	12	0.14			3.1	2.4	9			24
13	85	65	75	-8	69	79	0	10	0.03			1.9	0.8	110			24
14	90	72	81	-2	72	77	0	16	0.00			3.3	1.5	171		8	23
15	91	71	81	-3	72	76	0	16	0.00			3.8	2.7	162			24
16	91	71	81	-3	73	78	0	16	0.00 T			1.8	1.5	122		8	24
17	92	73	83	-1	74	80	0	18	0.00			3.1	1.7	126	14	8	24
18	92	71	82	-2	73	79	0	17	0.00			1.8	1.0	171			24
19	92	72	82	-2	72	74	0	17	0.00			3.3	2.5	163			24
20	92	72	82	-2	73	78	0	17	0.00			3.6	2.8	183			24
21	92	72	82	-2	73	78	0	17	0.00			4.8	4.2	218			24
22	93	72	83	-1	72	74	0	18	0.00			4.1	3.4	297	14		24
23	96	76	86	2	73	70	0	21	0.00			2.9	2.3	324			24
24	97	74	86	2	75	73	0	21	0.00			2.0	0.7	320			24
25	96	75	86	2	76	78	0	21	0.00 T			3.6	1.6	167			24
26	95	75	85	1	76	75	0	20	0.00 T			3.1	1.7	234			23
27	97	78	88	4	75	73	0	23	0.00			5.3	2.3	259			23
28	98	75	87	3	76	75	0	22	0.00 T			3.1	1.3	233			24
29	98	76	87	3	75	70	0	22	0.00			3.6	2.1	254			22
30	96	79	88	4	76	73	0	23	0.00			5.1	4.3	197			24
31	95	75	85	2	74	72	0	20	0.00			4.3	3.6	207			24
AG/TL	92.7	73.2	82.9		73.2	77	0	564	1.59			3.5					
NORM	94.3	72.7	83.5				0	574	3.50								
DFN	-1.6	+0.5	-0.6				+0	-10	-1.91								

Temperature Data

AVERAGE MONTHLY 82.9
DEPARTURE FROM NORMAL -0.6
HIGHEST 98 ON 28
LOWEST 65 ON 13
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0

Precipitation Data

TOTAL FOR THE MONTH 1.59
DEPARTURE FROM NORMAL -1.91
GREATEST 24HR TOTAL 0.85
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 6
ò 0.10 INCH OR MORE PRECIP 3

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime

```
 MAX 90 OR ABOVE            28     ò 0.50 INCH OR MORE PRECIP  1      7 = blowing dust or sand: visibility 1/2 mile or less
 MIN 32 OR BELOW             0     ò 1.00 INCH OR MORE PRECIP  0      8 = smoke or haze
 MIN  0 OR BELOW             0                                        9 = blowing snow
HEATING DEGREE DAYS (BASE 65)                                        x = tornado
 TOTAL THIS MONTH            0
  DEPARTURE FROM NORMAL      0    T -- trace                          obs -- number of hourly observations received
COOLING DEGREE DAYS (BASE 65)     M -- estimated;                            by the SRCC for that day
 TOTAL THIS MONTH          564         value may be less than
  DEPARTURE FROM NORMAL    -10         actual daily total             * -- values use Daily Normals calculated by SRCC
Preliminary Daily Summary:  SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month:          August      Year: 1999
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	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	98	77	88	4	76	72	0	23	0.00			2.7	1.4	253			24
2	100	76	88	4	75	68	0	23	0.00			5.2	4.4	41	16		24
3	96	71	84	0	69	62	0	19	0.00			6.3	5.7	44			23
4	98	70	84	0	65	59	0	19	0.00			4.6	3.8	49			24
5	95	72	84	1	69	65	0	19	0.00			3.7	3.3	61	15		24
6	97	69	83	0	69	64	0	18	0.00			3.5	2.6	45	14		22
7	100	73	87	4	72	66	0	22	0.00			2.0	1.5	171		8	24
8	99	77	88	5	75	68	0	23	0.00			4.2	2.5	245		8	24
9	100	75	88	5	74	65	0	23	0.40			6.5	3.7	262	19	8	19
10	96	76	86	3	76	76	0	21	0.01			4.3	3.4	204			16
11	99	77	88	5	75	69	0	23	0.00			4.4	3.8	203			23
12	99	77	88	5	73	63	0	23	0.00	T		5.8	5.2	225			24
13	100	77	89	6	75	68	0	24	0.00			4.5	3.0	227			24
14	92	70	81	-2	70	66	0	16	0.00			7.7	7.0	50	21		24
15	89	65	77	-6	62	64	0	12	0.00			5.9	5.4	59	15		24
16	96	60	78	-5	63	64	0	13	0.00			2.5	2.1	56			24
17	100	64	82	0	66	64	0	17	0.00			2.1	1.2	98			24
18	101	71	86	4	68	63	0	21	0.00			2.5	0.7	309			24
19	104	68	86	4	67	59	0	21	0.00			1.6	0.5	191			24
20	95	75	85	3	68	63	0	20	0.00			8.3	8.0	49	20		24
21	93	67	80	-2	66	64	0	15	0.00			5.3	4.4	45		8	24
22	98	66	82	0	65	61	0	17	0.00	T		1.9	0.9	33		8	24
23	100	72	86	4	72	65	0	21	0.00			3.3	2.3	199			24
24	96	77	87	5	75	81	0	22	0.23			5.3	4.0	223		3	24
25	98	71	85	3	71	69	0	20	0.00			4.6	1.4	331			24
26	100	68	84	3	69	63	0	19	0.00			2.8	1.2	49			24
27	89	71	80	-1	71	79	0	15	0.38			4.3	1.4	323	20	3	24
28	96	73	85	4	69	66	0	20	0.00			3.5	2.9	39			24
29	97	70	84	3	66	61	0	19	0.00			5.0	4.7	37		8	24
30	98	71	85	4	66	58	0	20	0.00			7.0	6.8	49	16	8	24
31	96	65	81	0	63	57	0	16	0.00			5.2	3.7	50			24
AG/TL	97.3	71.3	84.3		69.7	66	0	604	1.02			4.4					
NORM	93.8	71.1	82.5				0	540	2.84								
DFN	+3.5	+0.2	+1.8				+0	+64	-1.82								

Temperature Data

AVERAGE MONTHLY	84.3
DEPARTURE FROM NORMAL	+1.8
HIGHEST 104 ON 19	
LOWEST 60 ON 16	
NUMBER OF DAYS WITH	
MAX 32 OR BELOW	0
MAX 90 OR ABOVE	29
MIN 32 OR BELOW	0
MIN 0 OR BELOW	0
HEATING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	0
DEPARTURE FROM NORMAL	0
COOLING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	604
DEPARTURE FROM NORMAL	+64

Precipitation Data

TOTAL FOR THE MONTH	1.02
DEPARTURE FROM NORMAL	-1.82
GREATEST 24HR TOTAL	0.38
NUMBER OF DAYS WITH	
ò 0.01 INCH OR MORE PRECIP	4
ò 0.10 INCH OR MORE PRECIP	3
ò 0.50 INCH OR MORE PRECIP	0
ò 1.00 INCH OR MORE PRECIP	0

T -- trace
M -- estimated; value may be less than actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: September Year: 1999

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv		Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	91	71	81	1	73	87	0	16	0.33				3.8	1.8	115	17		24
2	90	69	80	0	72	83	0	15	0.18				4.6	3.7	70	26	3 8	24
3	90	71	81	1	63	63	0	16	0.00				2.1	1.1	151			20
4	94	72	83	3	73	62	0	18	0.00				4.5	3.9	244			6
5	96	73	85	6	72	70	0	20	0.09				4.4	1.9	256			11
6	89	72	81	2	73	80	0	16	0.01				3.0	2.6	315			9
7	93	71	82	3	73	78	0	17	0.00				2.9	1.9	228			17
8	86	70	78	-1	72	89	0	13	0.86				3.2	2.0	308		8	21
9	88	64	76	-3	65	71	0	11	0.00				6.4	6.2	13			24
10	90	56	73	-6	54	58	0	8	0.00				2.5	1.6	63			24
11	91	57	74	-4	57	63	0	9	0.00				2.3	1.5	145			24
12	91	60	76	-2	65	71	0	11	0.00				2.0	1.3	163			24
13	86	67	77	-1	68	76	0	12	0.00				7.3	6.6	17	16	8	24
14	86	61	74	-4	54	55	0	9	0.00				7.9	7.6	41	21		24
15	88	56	72	-5	48	43	0	7	0.00				7.8	7.4	36	20		24
16	87	58	73	-4	53	52	0	8	0.00				5.9	5.2	35	15		24
17	85	55	70	-7	48	47	0	5	0.00				6.0	5.7	44	16		24
18	88	55	72	-4	50	51	0	7	0.00				4.0	3.7	41			24
19	92	59	76	0	58	56	0	11	0.00				3.3	2.9	53			24
20	94	64	79	3	64	63	0	14	0.00	T			4.0	2.9	15			24
21	75	54	65	-11	57	72	0	0	0.02				8.0	7.7	10	18		24
22	78	47	63	-12	43	57	2	0	0.00				4.6	4.3	18	17		24
23	83	45	64	-11	45	59	1	0	0.00				1.0	0.3	157			23
24	87	50	69	-6	49	57	0	4	0.00				2.9	1.7	198			23
25	86	51	69	-5	59	71	0	4	0.00				3.2	2.5	174			24
26	86	65	76	2	65	72	0	11	0.00				3.7	2.8	144			24
27	90	63	77	3	65	73	0	12	0.00				3.0	2.3	134			24

28	91	64	78	5	70	83	0	13	1.53			4.7	3.6	191	27	1 3	23
29	73	56	65	-7	59	81	0	0	0.26			5.7	5.3	4	26	1 3	24
30	77	48	63	-9	48	66	2	0	0.00			3.3	2.3	38			24
AG/TL	87.4	60.8	74.1		60.5	67	5	287	3.28			4.3					
NORM	88.6	65.0	76.8				3	358	3.37								
DFN	-1.2	-4.2	-2.7				+2	-71	-0.09								

Temperature Data

AVERAGE MONTHLY 74.1
DEPARTURE FROM NORMAL -2.7
HIGHEST 96 ON 5
LOWEST 45 ON 23
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 13
MIN 32 OR BELOW 0
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 5
DEPARTURE FROM NORMAL +2
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 287
DEPARTURE FROM NORMAL -71

Precipitation Data

TOTAL FOR THE MONTH 3.28
DEPARTURE FROM NORMAL -0.09
GREATEST 24HR TOTAL 1.79
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 8
ò 0.10 INCH OR MORE PRECIP 5
ò 0.50 INCH OR MORE PRECIP 2
ò 1.00 INCH OR MORE PRECIP 1

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: October Year: 1999

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	80	48	64	-8	49	69	1	0	0.00			1.6	0.8	98		1	24
2	84	46	65	-7	52	71	0	0	0.00			0.8	0.4	157			24
3	90	54	72	0	59	73	0	7	0.00			0.9	0.1	57		1 8	24
4	81	54	68	-3	56	69	0	3	0.00			7.9	7.5	32	18		24
5	75	46	61	-9	45	65	4	0	0.00			5.8	5.6	38	17		24
6	82	44	63	-7	45	64	2	0	0.00			4.8	4.6	51	17		23
7	84	51	68	-1	62	77	0	3	0.07			6.1	4.3	92	16		24
8	79	68	74	5	71	92	0	9	0.62			4.4	2.4	113			23
9	83	66	75	6	71	90	0	10	0.01			3.7	2.5	209		1	23
10	87	65	76	8	67	81	0	11	0.00			3.5	3.2	13		1	24
11	86	63	75	7	63	73	0	10	0.00			5.0	4.7	43			24
12	85	59	72	4	62	79	0	7	0.00			2.6	2.0	44		8	24
13	87	56	72	5	63	79	0	7	0.00			1.1	0.5	18		1 8	24
14	87	58	73	6	62	78	0	8	0.00			2.5	1.8	46		1	24
15	88	57	73	7	63	78	0	8	0.00			2.3	1.4	161		1	24
16	86	58	72	6	64	83	0	7	0.00			1.1	0.4	265		8	24
17	72	57	65	-1	57	83	0	0	0.00			6.9	6.8	17	20	1 8	21
18	66	57	62	-4	43	55	3	0	0.00	T		7.5	7.2	27	16		24

19	61	46	54	-12	47	80	11	0	0.00 T		7.2	6.4	11	15		24
20	72	41	57	-8	43	69	8	0	0.00		3.8	3.3	5	14		24
21	74	40	57	-7	43	71	8	0	0.00		1.0	0.6	353			24
22	86	45	66	2	48	57	0	1	0.00		5.5	3.7	280			24
23	70	42	56	-8	36	51	9	0	0.00		6.2	5.7	13	15		24
24	64	36	50	-13	35	66	15	0	0.00		3.2	2.4	58			24
25	71	33	52	-11	39	68	13	0	0.00		0.5	0.2	149			24
26	81	41	61	-2	49	70	4	0	0.00		3.1	2.8	221			24
27	83	45	64	2	52	77	1	0	0.00		1.9	1.3	224		8	24
28	82	46	64	2	53	76	1	0	0.00		1.2	0.6	147			24
29	81	49	65	3	56	74	0	0	0.00		3.6	2.9	160	14		24
30	84	57	71	10	64	86	0	6	0.26		5.3	4.5	171	22	1	24
31	69	51	60	-1	60	93	5	0	0.26		4.4	2.5	152	16	1 2	22
AG/TL	79.4	50.9	65.2		54.2	74	85	97	1.22		3.7					
NORM	79.6	53.0	66.3				68	108	3.91							
DFN	-0.2	-2.1	-1.2				+17	-11	-2.69							

Temperature Data

AVERAGE MONTHLY 65.2
DEPARTURE FROM NORMAL -1.2
HIGHEST 90 ON 3
LOWEST 33 ON 25
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 1
MIN 32 OR BELOW 0
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 85
DEPARTURE FROM NORMAL +17
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 97
DEPARTURE FROM NORMAL -11

Precipitation Data

TOTAL FOR THE MONTH 1.22
DEPARTURE FROM NORMAL -2.69
GREATEST 24HR TOTAL 0.63
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 5
ò 0.10 INCH OR MORE PRECIP 3
ò 0.50 INCH OR MORE PRECIP 1
ò 1.00 INCH OR MORE PRECIP 0

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: November Year: 1999

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	66	52	59	-2	54	92	6	0	0.00			4.4	2.9	304		1 2	24
2	64	42	53	-8	34	49	12	0	0.00			10.9	10.3	343	25		23
3	66	32	49	-12	29	51	16	0	0.00			2.5	1.3	175			24
4	74	35	55	-6	44	67	10	0	0.00			5.0	4.7	178			24
5	78	46	62	2	53	78	3	0	0.00			2.5	2.3	165			24
6	78	45	62	3	53	81	3	0	0.00			0.7	0.2	230		1	23
7	80	46	63	4	53	81	2	0	0.00			0.3	0.3	330		1	23
8	81	46	64	6	52	75	1	0	0.00			0.6	0.4	160		1 8	21
9	79	45	62	4	50	73	3	0	0.00			2.3	2.0	175		1	24

10	80	54	67	9	56	80	0	2	0.00			3.0	2.8	224	2	24
11	82	52	67	10	48	62	0	2	0.00			3.5	2.9	22		24
12	75	46	61	4	47	73	4	0	0.00			3.0	2.3	53		24
13	78	42	60	3	48	76	5	0	0.00			0.6	0.4	284	1 8	24
14	82	42	62	6	50	72	3	0	0.00			2.3	1.5	286	8	23
15	73	47	60	4	36	46	5	0	0.00			6.2	5.6	19		24
16	72	38	55	-1	36	57	10	0	0.00			1.3	0.6	16		23
17	74	37	56	1	39	65	9	0	0.00			1.3	0.6	117		24
18	75	37	56	1	43	65	9	0	0.00			5.1	5.0	168	14	23
19	80	51	66	11	55	73	0	1	0.27			7.4	6.4	184		16
20	67	45	56	1	46	72	9	0	0.01			4.8	3.6	7		23
21	74	38	56	2	49	81	9	0	0.00			2.4	1.6	142	1 2	24
22	80	53	67	13	60	82	0	2	0.00			4.9	4.2	149	16 2	24
23	76	55	66	12	62	92	0	1	0.52			6.8	2.5	207		24
24	61	49	55	1	44	72	10	0	0.00			8.1	7.8	17	18	24
25	52	37	45	-8	42	84	20	0	0.18			7.2	6.9	345		24
26	62	30	46	-7	35	79	19	0	0.00			1.5	0.9	174	1	22
27	71	34	53	0	39	69	12	0	0.00			2.8	2.6	186		24
28	73	38	56	4	47	80	9	0	0.00			1.2	0.3	73		24
29	64	45	55	3	37	59	10	0	0.00			7.8	7.4	33		24
30	57	31	44	-8	23	49	21	0	0.00			5.4	5.1	46		24
AG/TL	72.5	43.0	57.8		45.5	71	220	8	0.98			3.9				
NORM	67.7	44.6	56.2				282	16	4.45							
DFN	+4.8	-1.6	+1.5				-62	-8	-3.47							

Temperature Data

AVERAGE MONTHLY 57.8
DEPARTURE FROM NORMAL +1.5
HIGHEST 82 ON 11
LOWEST 30 ON 26
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 0
MIN 32 OR BELOW 3
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 220
DEPARTURE FROM NORMAL -62
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 8
DEPARTURE FROM NORMAL -8

Precipitation Data

TOTAL FOR THE MONTH 0.98
DEPARTURE FROM NORMAL -3.47
GREATEST 24HR TOTAL 0.52
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 4
ò 0.10 INCH OR MORE PRECIP 3
ò 0.50 INCH OR MORE PRECIP 1
ò 1.00 INCH OR MORE PRECIP 0

T -- trace
M -- estimated; value may be less than actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: December Year: 1999

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)				
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs

1	63	27	45	-7	28	55	20	0	0.00		2.9	1.9	158				24
2	74	44	59	8	50	68	6	0	0.00	T	9.2	9.1	163	21			24
3	73	60	67	16	61	86	0	2	0.36		9.9	9.2	169	23			24
4	79	57	68	17	62	81	0	3	1.42		9.2	7.3	170	21			24
5	58	45	52	2	42	74	13	0	0.09		10.9	9.4	286	21			24
6	54	32	43	-7	32	66	22	0	0.00		4.5	2.9	357				24
7	59	28	44	-6	35	74	21	0	0.00		3.3	2.6	159				24
8	66	38	52	2	46	77	13	0	0.00		3.9	2.3	130				24
9	73	46	60	10	54	88	5	0	0.31		8.6	5.9	200	22	2		24
10	60	45	53	4	45	78	12	0	0.00		7.1	2.2	23				24
11	59	50	55	6	48	79	10	0	0.00		4.0	2.4	117				24
12	72	51	62	13	56	92	3	0	0.94		8.0	2.1	36	23	3		24
13	51	43	47	-2	46	91	18	0	0.04		7.0	5.2	325	17			24
14	63	36	50	1	41	76	15	0	0.00		8.0	7.2	200	17			24
15	56	33	45	-3	25	48	20	0	0.00		8.6	8.2	283	22			24
16	62	26	44	-4	25	56	21	0	0.00		3.1	2.3	207		8		23
17	61	27	44	-4	34	68	21	0	0.00		1.9	1.2	99				24
18	50	36	43	-5	42	91	22	0	0.44		4.0	3.5	10		1		24
19	58	32	45	-3	41	88	20	0	0.00		2.8	1.5	152		1	2	24
20	50	36	43	-5	43	92	22	0	0.37		8.2	6.2	33	22	1	2	24
21	39	28	34	-13	28	77	31	0	0.15		8.8	8.5	20	20			24
22	49	25	37	-10	21	63	28	0	0.00		3.0	2.5	42				24
23	58	26	42	-5	27	64	23	0	0.00		2.1	1.8	268				24
24	62	34	48	1	32	62	17	0	0.00		6.9	2.8	23	18	8		24
25	51	27	39	-8	23	63	26	0	0.00		2.7	2.2	26				23
26	68	30	49	3	32	36	16	0	0.00		5.2	4.2	251				24
27	55	29	42	-4	34	60	23	0	0.00		4.9	3.4	315	22			24
28	66	28	47	1	28	59	18	0	0.00		6.5	4.9	264				24
29	65	29	47	1	34	70	18	0	0.00		1.4	0.3	124				24
30	73	35	54	8	46	76	11	0	0.00		6.3	6.1	187	18			24
31	67	42	55	9	52	90	10	0	0.00		2.0	0.8	353		1	2	24
AG/TL	61.1	36.3	48.7		39.1	73	505	5	4.12		5.6						
NORM	58.8	38.0	48.4				525	10	5.23								
DFN	+2.3	-1.7	+0.3				-20	-5	-1.11								

Temperature Data

AVERAGE MONTHLY	48.7
DEPARTURE FROM NORMAL	+0.3
HIGHEST 79 ON 4	
LOWEST 25 ON 22	
NUMBER OF DAYS WITH	
MAX 32 OR BELOW	0
MAX 90 OR ABOVE	0
MIN 32 OR BELOW	14
MIN 0 OR BELOW	0
HEATING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	505
DEPARTURE FROM NORMAL	-20
COOLING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	5
DEPARTURE FROM NORMAL	-5

Precipitation Data

TOTAL FOR THE MONTH	4.12
DEPARTURE FROM NORMAL	-1.11
GREATEST 24HR TOTAL	1.51
NUMBER OF DAYS WITH	
ò 0.01 INCH OR MORE PRECIP	9
ò 0.10 INCH OR MORE PRECIP	7
ò 0.50 INCH OR MORE PRECIP	2
ò 1.00 INCH OR MORE PRECIP	1

T -- trace
M -- estimated; value may be less than actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: January Year: 2000

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	64	39	52	6	48	87	13	0	0.00			3.7	3.4	159		1 2	24
2	77	59	68	22	62	77	0	3	0.00			9.1	8.9	185	18		24
3	78	51	65	19	56	69	0	0	0.38			11.5	8.9	217	27		23
4	53	34	44	-2	29	55	21	0	0.00			10.7	10.1	299	26		24
5	50	27	39	-7	23	61	26	0	0.00			3.1	1.3	129			24
6	57	25	41	-5	32	68	24	0	0.00			1.1	0.6	113			24
7	64	40	52	6	37	57	13	0	0.00 T			5.2	5.0	63			24
8	52	47	50	5	45	88	15	0	0.45			4.3	3.7	46			23
9	69	48	59	14	48	79	6	0	0.07			5.7	4.8	219			24
10	73	39	56	11	38	59	9	0	0.00			6.2	5.8	223			24
11	74	37	56	11	45	64	9	0	0.00			4.8	4.6	175			24
12	80	60	70	25	60	77	0	5	0.00			9.3	9.2	202	23		24
13	66	45	56	11	38	52	9	0	0.00 T			10.5	8.7	43	28	1 2	24
14	53	33	43	-2	26	56	22	0	0.00			6.3	6.0	59			24
15	69	26	48	2	38	70	17	0	0.00			5.5	5.2	189	20		24
16	75	49	62	16	53	75	3	0	0.00			6.0	5.3	188			24
17	76	54	65	19	56	79	0	0	0.00			6.5	6.3	218	18	2	24
18	77	53	65	19	56	80	0	0	0.00			8.0	0.4	26			24
19	79	49	64	18	51	74	1	0	0.00			7.2	1.6	306	16	8	22
20	56	34	45	-1	23	47	20	0	0.00			9.6	8.4	10	22		23
21	51	29	40	-6	18	42	25	0	0.00			4.6	3.7	89			24
22	70	49	60	14	48	70	5	0	0.00 T			7.2	5.7	184			24
23	52	38	45	-1	40	79	20	0	0.00			9.1	8.5	33			23
24	41	28	35	-11	28	73	30	0	0.00			6.4	5.7	16	20		24
25	52	25	39	-8	21	55	26	0	0.00			5.9	5.0	354	20		24
26	37	24	31	-16	17	55	34	0	0.03			6.5	5.9	48			24
27	33	29	31	-16	28	89	34	0	1.32			6.2	5.9	66	19		24
28	35	32	34	-13	32	96	31	0	0.07			3.8	3.6	6			24
29	37	30	34	-13	31	92	31	0	0.00			5.8	5.7	329			23
30	41	26	34	-13	28	83	31	0	0.00			5.3	4.7	330		1	24
31	49	29	39	-9	31	80	26	0	0.00			2.5	1.2	63		1 2	24
AG/TL	59.4	38.3	48.8		38.3	71	501	8	2.32			6.4					
NORM	56.0	35.9	46.0				597	7	5.46								
DFN	+3.4	+2.4	+2.8				-96	+1	-3.14								

Temperature Data

AVERAGE MONTHLY 48.8
DEPARTURE FROM NORMAL +2.8
HIGHEST 80 ON 12
LOWEST 24 ON 26
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0

Precipitation Data

TOTAL FOR THE MONTH 2.32
DEPARTURE FROM NORMAL -3.14
GREATEST 24HR TOTAL 1.34
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 6
ò 0.10 INCH OR MORE PRECIP 3

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime

```
 MAX 90 OR ABOVE             0     ò 0.50 INCH OR MORE PRECIP  1      7 = blowing dust or sand: visibility 1/2 mile or less
 MIN 32 OR BELOW            12     ò 1.00 INCH OR MORE PRECIP  1      8 = smoke or haze
 MIN  0 OR BELOW             0                                        9 = blowing snow
HEATING DEGREE DAYS (BASE 65)                                        x = tornado
 TOTAL THIS MONTH          501
  DEPARTURE FROM NORMAL    -96    T -- trace                         obs -- number of hourly observations received
COOLING DEGREE DAYS (BASE 65)     M -- estimated;                           by the SRCC for that day
 TOTAL THIS MONTH            8         value may be less than
  DEPARTURE FROM NORMAL     +1         actual daily total            * -- values use Daily Normals calculated by SRCC
Preliminary Daily Summary:  SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month:        February      Year: 2000
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	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	58	35	47	-1	33	67	18	0	0.00			3.5	2.7	26			23
2	53	32	43	-5	31	72	22	0	0.00			3.8	3.4	48		8	24
3	70	30	50	2	36	67	15	0	0.00			5.5	4.7	234	18	8	24
4	59	33	46	-2	27	50	19	0	0.00			7.8	7.0	346	20		24
5	49	26	38	-11	24	65	27	0	0.00			3.0	2.2	46			24
6	57	23	40	-9	27	64	25	0	0.00			2.2	1.3	170			24
7	52	34	43	-6	42	89	22	0	0.06			1.1	0.8	173		1 2	24
8	64	39	52	3	46	86	13	0	0.00			0.9	0.1	91		1 2	24
9	70	37	54	4	43	74	11	0	0.00			4.8	4.6	189	15	1 2	24
10	76	48	62	12	52	69	3	0	0.00			11.0	10.6	201	25		20
11	77	52	65	15	56	80	0	0	0.00			6.5	1.6	136		8	24
12	57	44	51	1	44	81	14	0	0.00	T		5.6	5.0	28		8	24
13	72	52	62	11	57	86	3	0	0.31			7.4	6.0	200	18		24
14	66	44	55	4	43	70	10	0	0.00			5.1	3.2	16		8	24
15	76	41	59	8	50	70	6	0	0.00			7.0	5.6	168			24
16	76	53	65	14	58	80	0	0	0.00	T		4.9	4.0	61		1 2	24
17	79	50	65	13	53	67	0	0	0.00			7.8	3.9	144	15		24
18	83	49	66	14	60	74	0	1	0.07			12.9	6.7	229	23		22
19	52	36	44	-8	35	72	21	0	0.00			6.7	5.7	18			24
20	61	31	46	-6	35	72	19	0	0.00			3.7	3.4	46		2	24
21	70	35	53	1	36	57	12	0	0.00			3.2	2.3	163			24
22	75	41	58	6	42	52	7	0	0.00			6.1	5.8	161	17		23
23	78	55	67	14	55	66	0	2	0.00			11.9	11.4	180	24		24
24	83	63	73	19	59	67	0	8	0.00			9.1	8.7	175	20		24
25	80	65	73	19	59	66	0	8	0.00			12.7	12.5	169	25		24
26	75	47	61	7	57	88	4	0	0.73			9.9	6.4	185	23	1	24
27	68	42	55	1	41	66	10	0	0.01			4.8	3.1	347			24
28	70	37	54	-1	39	64	11	0	0.00			2.9	1.9	93			24
29	77	45	61	6	52	68	4	0	0.00			7.9	7.4	183			24
AG/TL	68.4	42.0	55.2		44.6	71	296	19	1.18			6.2					
NORM	61.9	40.0	51.0				400	6	4.34								
DFN	+6.5	+2.0	+4.2				-104	+13	-3.16								

Temperature Data

AVERAGE MONTHLY	55.2
DEPARTURE FROM NORMAL	+4.2
HIGHEST 83 ON 18	
LOWEST 23 ON 6	
NUMBER OF DAYS WITH	
MAX 32 OR BELOW	0
MAX 90 OR ABOVE	0
MIN 32 OR BELOW	5
MIN 0 OR BELOW	0
HEATING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	296
DEPARTURE FROM NORMAL	-104
COOLING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	19
DEPARTURE FROM NORMAL	+13

Precipitation Data

TOTAL FOR THE MONTH	1.18
DEPARTURE FROM NORMAL	-3.16
GREATEST 24HR TOTAL	0.74
NUMBER OF DAYS WITH	
ò 0.01 INCH OR MORE PRECIP	5
ò 0.10 INCH OR MORE PRECIP	2
ò 0.50 INCH OR MORE PRECIP	1
ò 1.00 INCH OR MORE PRECIP	0

T -- trace
M -- estimated; value may be less than actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: March Year: 2000

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	79	55	67	12	53	64	0	2	0.00 T			7.7	1.8	297			24
2	74	49	62	7	44	56	3	0	0.00			4.8	4.1	83			24
3	78	52	65	10	52	67	0	0	0.00			11.1	8.5	284	24		24
4	54	41	48	-7	40	71	17	0	0.00			6.3	5.9	343			24
5	67	33	50	-5	42	75	15	0	0.00			2.8	2.1	73			24
6	79	41	60	4	48	69	5	0	0.00 T			2.6	1.7	157			23
7	81	52	67	11	54	70	0	2	0.00 T			5.0	3.8	158			23
8	82	60	71	14	61	78	0	6	0.00			7.2	6.8	180	17		21
9	84	65	75	18	65	78	0	10	0.00 T			3.6	2.2	215		8	23
10	82	54	68	11	61	85	0	3	1.15			7.6	1.3	206	25	3 8	24
11	57	39	48	-9	41	72	17	0	0.17			10.5	8.3	329	22	3	24
12	57	33	45	-13	34	68	20	0	0.00			3.5	2.5	53			23
13	66	35	51	-7	38	65	14	0	0.00			2.2	1.2	87			22
14	69	43	56	-2	47	63	9	0	0.00			4.1	2.5	128			22
15	62	57	60	2	58	93	5	0	1.26			4.9	4.8	85			24
16	70	57	64	6	61	90	1	0	0.07			6.5	1.4	300		2	20
17	62	50	56	-3	50	81	9	0	0.00 T			8.6	8.3	45	15		24
18	77	50	64	5	56	80	1	0	2.34			4.5	2.4	141			23
19	63	44	54	-5	48	82	11	0	1.20			8.7	7.3	288	27		24
20	68	37	53	-6	43	71	12	0	0.00			2.9	1.8	164			24
21	68	46	57	-3	48	69	8	0	0.01			5.1	4.5	71			24
22	76	56	66	6	56	76	0	1	0.23			4.8	4.2	57		3	24
23	81	53	67	7	56	64	0	2	0.00			5.5	3.8	139			24
24	79	62	71	11	64	81	0	6	0.00			5.3	4.3	181			24
25	80	61	71	10	64	89	0	6	0.06			5.2	2.6	221			24
26	80	61	71	10	62	80	0	6	0.02			4.5	2.2	175		1	24
27	74	52	63	2	48	64	2	0	0.48			7.4	5.9	328	20	3	24

28	86	49	68	7	50	56	0	3	0.00			6.5	5.5	222	15	24
29	68	55	62	1	60	90	3	0	0.68			6.3	4.2	78	21 3	22
30	69	53	61	-1	55	81	4	0	0.18			6.8	5.6	6		24
31	72	50	61	-1	51	70	4	0	0.09			6.7	6.4	48		24
AG/TL	72.4	49.8	61.1		51.9	74	160	47	7.94			5.8				
NORM	69.7	47.1	58.4				233	28	5.53							
DFN	+2.7	+2.7	+2.7				-73	+19	+2.41							

Temperature Data

AVERAGE MONTHLY 61.1
DEPARTURE FROM NORMAL +2.7
HIGHEST 86 ON 28
LOWEST 33 ON 5
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 0
MIN 32 OR BELOW 0
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 160
DEPARTURE FROM NORMAL -73
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 47
DEPARTURE FROM NORMAL +19

Precipitation Data

TOTAL FOR THE MONTH 7.94
DEPARTURE FROM NORMAL +2.41
GREATEST 24HR TOTAL 3.54
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 14
ò 0.10 INCH OR MORE PRECIP 9
ò 0.50 INCH OR MORE PRECIP 5
ò 1.00 INCH OR MORE PRECIP 4

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: April Year: 2000

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)				
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	69	54	62	0	58	86	3	0	0.04			4.0	2.6	57			24
2	75	64	70	7	65	92	0	5	0.02			4.7	1.3	147		3	22
3	66	50	58	-5	57	88	7	0	0.60			7.5	4.5	298	21	3	24
4	65	43	54	-9	37	56	11	0	0.00			6.6	5.8	300	22		24
5	75	43	59	-4	43	58	6	0	0.00			8.0	7.9	196	21		24
6	80	51	66	2	56	71	0	1	0.00			9.3	8.9	188	22		23
7	83	59	71	7	60	71	0	6	0.45			10.2	8.5	204	24	3	24
8	64	43	54	-10	34	48	11	0	0.00			9.2	8.7	355	23		24
9	68	38	53	-11	38	60	12	0	0.00			4.4	3.6	179			24
10	73	46	60	-4	50	69	5	0	0.00	T		7.2	6.9	170	19		24
11	77	59	68	4	60	81	0	3	0.09			5.0	1.1	61			23
12	64	52	58	-7	53	92	7	0	0.91			10.1	9.5	35	20		24
13	57	51	54	-11	51	90	11	0	0.00	T		4.7	4.3	343			23
14	68	53	61	-4	55	87	4	0	0.01			2.4	1.6	46			24
15	76	52	64	-2	58	85	1	0	0.00			2.3	2.0	175		2	24
16	81	56	69	3	63	81	0	4	0.00			5.5	4.2	212			24
17	79	57	68	2	53	64	0	3	0.00			4.8	3.2	329			24
18	83	53	68	2	58	72	0	3	0.00			2.3	1.3	153			23

19	88	62	75	8	64	71	0	10	0.00		8.4	7.9	185	19	8	24
20	88	61	75	8	58	60	0	10	0.00		10.8	8.4	253	22	8	24
21	77	52	65	-2	47	56	0	0	0.00		7.0	6.5	332	18		24
22	80	49	65	-2	51	63	0	0	0.00		1.7	0.3	141			24
23	70	61	66	-1	61	87	0	1	0.19		6.3	3.4	180	18		24
24	77	55	66	-2	56	74	0	1	0.00		7.2	5.8	326	18		24
25	77	49	63	-6	49	66	2	0	0.00		3.7	2.8	327	14		24
26	80	55	68	-1	52	66	0	3	0.00		4.1	2.5	9	18		24
27	77	50	64	-5	56	78	1	0	0.01		6.8	6.4	272	23		24
28	77	54	66	-3	54	69	0	1	0.00		4.7	3.7	345			24
29	81	49	65	-5	52	65	0	0	0.00		1.5	0.3	88		1	24
30	84	57	71	1	55	58	0	6	0.00		5.2	4.4	150	19		24
AG/TL	75.3	52.6	64.0		53.5	72		81	57	2.32		5.9				
NORM	77.7	54.1	65.9					74	100	4.77						
DFN	-2.4	-1.5	-2.0					+7	-43	-2.45						

Temperature Data

AVERAGE MONTHLY 64.0
DEPARTURE FROM NORMAL -2.0
HIGHEST 88 ON 19
LOWEST 38 ON 9
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 0
MIN 32 OR BELOW 0
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 81
DEPARTURE FROM NORMAL +7
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 57
DEPARTURE FROM NORMAL -43

Precipitation Data

TOTAL FOR THE MONTH 2.32
DEPARTURE FROM NORMAL -2.45
GREATEST 24HR TOTAL 0.90
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 9
ò 0.10 INCH OR MORE PRECIP 4
ò 0.50 INCH OR MORE PRECIP 2
ò 1.00 INCH OR MORE PRECIP 0

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: May Year: 2000

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	85	62	74	4	62	72	0	9	0.00 T			5.6	4.5	191	19	3	23
2	81	65	73	3	65	81	0	8	0.02			4.6	3.9	193	17		24
3	75	62	69	-2	62	84	0	4	1.79			3.8	1.3	152		3	24
4	75	63	69	-2	65	92	0	4	0.69			4.9	2.9	153		3	24
5	83	62	73	2	67	86	0	8	1.30			3.9	2.5	168		8	24
6	85	69	77	6	68	77	0	12	0.00			8.7	8.4	170	20		24
7	87	70	79	8	68	74	0	14	0.00			9.8	9.5	190	19		24
8	87	70	79	7	68	74	0	14	0.00			9.2	9.1	190	18		24
9	87	69	78	5	68	76	0	13	0.25			8.2	6.0	209	20		24

10	81	67	74	1	68	83	0	9	0.00 T			4.7	3.6	72				24
11	90	71	81	8	71	76	0	16	0.00			9.9	9.7	192	20			24
12	90	75	83	9	72	74	0	18	0.00			10.0	9.0	193	19			24
13	82	60	71	-3	61	71	0	6	0.51			5.9	3.7	12		3		23
14	77	58	68	-6	50	57	0	3	0.00			7.7	7.3	31				24
15	80	55	68	-6	52	62	0	3	0.00			3.6	2.4	76				24
16	83	56	70	-5	62	76	0	5	0.00			4.0	2.7	164	18			24
17	88	69	79	4	66	70	0	14	0.00			10.2	10.1	182	20			24
18	87	70	79	4	67	72	0	14	0.00			9.3	8.9	189	20			24
19	77	65	71	-4	69	91	0	6	0.23			5.9	0.8	88		8		24
20	80	66	73	-2	67	83	0	8	1.11			4.2	2.5	16		3		24
21	82	65	74	-2	66	83	0	9	0.00			3.0	1.9	346				24
22	88	62	75	-1	66	75	0	10	0.00			4.0	3.4	201				24
23	90	70	80	4	68	69	0	15	0.00			10.1	9.9	209	17			24
24	91	73	82	6	72	75	0	17	0.00			9.8	9.6	204	19			24
25	91	75	83	6	74	76	0	18	0.00			6.7	6.1	191				24
26	91	73	82	5	72	73	0	17	0.00			8.9	8.6	186	19			23
27	92	75	84	7	73	71	0	19	0.85			9.8	6.6	197	21	3		24
28	85	67	76	-1	69	82	0	11	0.05			4.0	1.6	291		3		24
29	89	61	75	-3	64	70	0	10	0.00			1.3	0.6	360				24
30	91	66	79	1	69	72	0	14	0.00			2.2	1.0	89				24
31	90	68	79	1	67	70	0	14	0.00			4.5	2.6	163	16			21
AG/TL	85.2	66.4	75.8		66.4	76	0	342	6.80			6.4						
NORM	85.2	63.4	74.3				8	296	5.47									
DFN	+0.0	+3.0	+1.5				-8	+46	+1.33									

Temperature Data

AVERAGE MONTHLY 75.8
DEPARTURE FROM NORMAL +1.5
HIGHEST 92 ON 27
LOWEST 55 ON 15
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 9
MIN 32 OR BELOW 0
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 0
DEPARTURE FROM NORMAL -8
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 342
DEPARTURE FROM NORMAL +46

Precipitation Data

TOTAL FOR THE MONTH 6.80
DEPARTURE FROM NORMAL +1.33
GREATEST 24HR TOTAL 1.34
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 10
ò 0.10 INCH OR MORE PRECIP 8
ò 0.50 INCH OR MORE PRECIP 6
ò 1.00 INCH OR MORE PRECIP 3

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: June Year: 2000

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs

1	91	70	81	3	67	68	0	16	0.00		4.1	3.4	165				24
2	91	71	81	2	71	73	0	16	0.00		2.7	1.2	201				23
3	90	72	81	2	72	83	0	16	0.26		2.8	1.3	31	22			24
4	83	70	77	-2	72	93	0	12	0.52		3.5	1.6	38		8		24
5	79	67	73	-6	69	90	0	8	1.82		5.8	4.5	32				24
6	76	59	68	-12	57	72	0	3	0.00		7.7	7.3	38	18			24
7	80	55	68	-12	57	70	0	3	0.00		4.1	3.9	54	15			23
8	86	57	72	-8	60	70	0	7	0.00		2.2	1.1	131				24
9	89	64	77	-3	70	81	0	12	0.03		4.2	2.9	168	15			24
10	89	68	79	-1	71	78	0	14	0.00		4.8	3.9	159	16			24
11	90	70	80	-1	69	72	0	15	0.00		4.0	3.4	174	17			24
12	92	68	80	-1	70	75	0	15	0.00		1.8	0.5	83				24
13	89	72	81	0	73	81	0	16	0.08		5.0	4.3	189		3		24
14	88	71	80	-1	72	83	0	15	0.00	T	7.1	6.5	193	16			24
15	89	72	81	0	72	79	0	16	0.00		7.3	6.9	201	14			24
16	90	72	81	0	73	85	0	16	0.00	T	7.2	6.5	173				23
17	82	72	77	-4	73	94	0	12	2.55		6.1	5.3	183				15
18	89	70	80	-2			0	15	0.07								0
19	91	70	81	-1	74	78	0	16	0.42		3.6	2.5	188				17
20	89	72	81	-1	75	86	0	16	0.14		6.0	5.2	198				23
21	91	74	83	1	75	82	0	18	0.00	T	7.6	5.2	238				24
22	90	72	81	-1	73	83	0	16	0.00		2.0	0.7	307				21
23	92	73	83	1	74	78	0	18	0.00	T	3.4	2.6	217				24
24	92	72	82	0	73	76	0	17	0.00	T	4.7	4.4	201				23
25	92	75	84	2	73	75	0	19	0.00		4.6	3.2	225				24
26	92	72	82	-1	72	76	0	17	0.00		3.9	1.7	274				24
27	91	72	82	-1	73	86	0	17	0.00	T	3.0	0.5	257	22	3		24
28	88	71	80	-3	74	91	0	15	0.18		3.4	0.7	263	19	3		24
29	85	69	77	-6	72	86	0	12	0.00	T	4.8	4.0	7				24
30	84	67	76	-7	71	87	0	11	0.00	T	1.4	0.3	89		1		24
AG/TL	88.0	69.3	78.7		70.6	80	0	419	6.07		4.4						
NORM	91.9	70.2	81.1				0	481	4.47								
DFN	-3.9	-0.9	-2.4				+0	-62	+1.60								

Temperature Data

AVERAGE MONTHLY	78.7
DEPARTURE FROM NORMAL	-2.4
HIGHEST 92 ON 12	
LOWEST 55 ON 7	
NUMBER OF DAYS WITH	
MAX 32 OR BELOW	0
MAX 90 OR ABOVE	14
MIN 32 OR BELOW	0
MIN 0 OR BELOW	0
HEATING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	0
DEPARTURE FROM NORMAL	0
COOLING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	419
DEPARTURE FROM NORMAL	-62

Precipitation Data

TOTAL FOR THE MONTH	6.07
DEPARTURE FROM NORMAL	+1.60
GREATEST 24HR TOTAL	2.54
NUMBER OF DAYS WITH	
ò 0.01 INCH OR MORE PRECIP	10
ò 0.10 INCH OR MORE PRECIP	7
ò 0.50 INCH OR MORE PRECIP	3
ò 1.00 INCH OR MORE PRECIP	2

T -- trace
M -- estimated; value may be less than actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: July Year: 2000

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	91	71	81	-2	74	81	0	16	0.00			2.2	0.6	60			24
2	91	72	82	-1	74	87	0	17	0.26			3.3	2.2	201			24
3	91	69	80	-3	73	81	0	15	0.00			4.7	4.2	185			24
4	92	73	83	0	73	80	0	18	0.00			4.6	3.9	186			23
5	92	69	81	-2	70	75	0	16	0.00			2.1	1.0	200			23
6	95	69	82	-1	71	73	0	17	0.00			1.8	0.2	19			24
7	95	73	84	1	74	75	0	19	0.00			2.6	2.2	350			24
8	96	76	86	3	75	78	0	21	0.00			3.1	2.7	49		8	24
9	98	70	84	1	72	68	0	19	0.00			2.7	1.5	186		8	24
10	94	75	85	2	73	71	0	20	0.00			5.6	4.8	219		8	24
11	94	75	85	2	72	71	0	20	0.00			5.9	5.4	240			24
12	95	75	85	2	71	68	0	20	0.00			5.1	4.7	241	16		24
13	98	74	86	3	73	71	0	21	0.00			4.0	1.8	283			24
14	98	75	87	4	74	71	0	22	0.00 T			2.7	1.7	11			23
15	99	71	85	1	71	68	0	20	0.00			2.0	1.5	324		1	23
16	102	71	87	3	71	64	0	22	0.00			2.7	1.7	315			24
17	100	73	87	3	71	64	0	22	0.00			4.2	1.7	310			24
18	101	77	89	5	73	65	0	24	0.00			2.7	1.2	230			24
19	101	79	90	6	74	63	0	25	0.00			4.7	3.2	265			24
20	102	76	89	5	72	62	0	24	0.00			5.1	1.8	311			24
21	95	73	84	0	73	70	0	19	0.00 T			3.8	3.2	60			24
22	90	72	81	-3	71	78	0	16	0.02			4.3	3.0	45	17	8	24
23	88	68	78	-6	66	71	0	13	0.00			5.4	4.8	15			24
24	88	65	77	-7	62	66	0	12	0.00			4.6	4.1	37			24
25	91	63	77	-7	60	61	0	12	0.00			3.1	1.9	63			22
26	95	62	79	-5	62	61	0	14	0.00			1.9	0.7	324			24
27	96	65	81	-3	66	64	0	16	0.00			3.0	0.7	219	18		24
28	96	69	83	-1	68	65	0	18	0.00			3.6	2.1	190			24
29	96	72	84	0	70	68	0	19	0.03			5.4	3.2	231	16		24
30	86	71	79	-5	73	87	0	14	0.97			5.4	4.4	199		3	23
31	94	70	82	-1	71	76	0	17	0.00			2.9	1.7	174			23
AG/TL	94.8	71.4	83.1		70.7	71	0	568	1.28			3.7					
NORM	94.3	72.7	83.5				0	574	3.50								
DFN	+0.5	-1.3	-0.4				+0	-6	-2.22								

Temperature Data

AVERAGE MONTHLY	83.1
DEPARTURE FROM NORMAL	-0.4
HIGHEST 102 ON 16	
LOWEST 62 ON 26	
NUMBER OF DAYS WITH	
MAX 32 OR BELOW	0

Precipitation Data

TOTAL FOR THE MONTH	1.28
DEPARTURE FROM NORMAL	-2.22
GREATEST 24HR TOTAL	0.98
NUMBER OF DAYS WITH	
ò 0.01 INCH OR MORE PRECIP	4
ò 0.10 INCH OR MORE PRECIP	2

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime

```
 MAX 90 OR ABOVE            28     ò 0.50 INCH OR MORE PRECIP  1      7 = blowing dust or sand: visibility 1/2 mile or less
 MIN 32 OR BELOW             0     ò 1.00 INCH OR MORE PRECIP  0      8 = smoke or haze
 MIN  0 OR BELOW             0                                        9 = blowing snow
HEATING DEGREE DAYS (BASE 65)                                        x = tornado
 TOTAL THIS MONTH            0
  DEPARTURE FROM NORMAL      0    T -- trace                         obs -- number of hourly observations received
COOLING DEGREE DAYS (BASE 65)     M -- estimated;                           by the SRCC for that day
 TOTAL THIS MONTH          568         value may be less than
  DEPARTURE FROM NORMAL     -6         actual daily total            * -- values use Daily Normals calculated by SRCC
Preliminary Daily Summary:  SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month:          August      Year: 2000
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	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	93	69	81	-3	72	77	0	16	0.00 T			2.3	0.9	161			24
2	95	72	84	0	71	72	0	19	0.00			3.0	2.1	210			24
3	94	72	83	-1	72	77	0	18	0.27			2.7	1.2	180			24
4	95	71	83	-1	73	76	0	18	0.00			2.8	2.3	195			23
5	95	72	84	1	73	72	0	19	0.00			4.3	3.5	215			24
6	96	74	85	2	72	68	0	20	0.00			4.9	3.8	202			24
7	96	74	85	2	73	69	0	20	0.00			4.5	4.2	197			24
8	97	75	86	3	74	72	0	21	0.00			5.3	4.7	202			23
9	96	74	85	2	72	71	0	20	0.00			4.1	2.8	238	14		22
10	101	75	88	5	71	62	0	23	0.00			3.9	2.2	278			23
11	98	75	87	4	73	69	0	22	0.00			5.9	1.8	80	14	3	24
12	94	67	81	-2	63	59	0	16	0.00			6.4	6.1	57	17		23
13	95	65	80	-3	61	56	0	15	0.00			5.0	4.3	56			24
14	97	72	85	2	64	63	0	20	0.00			2.0	0.7	149			23
15	99	70	85	2	69	64	0	20	0.00			1.9	0.9	219			24
16	101	72	87	4	70	63	0	22	0.00			3.1	1.3	252			24
17	102	72	87	5	69	59	0	22	0.00			3.4	2.3	212	14		24
18	103	72	88	6	66	49	0	23	0.00			4.6	3.3	229			23
19	101	76	89	7	69	56	0	24	0.03			4.9	1.9	294			21
20	102	72	87	5	69	59	0	22	0.00			4.3	1.0	319			23
21	103	71	87	5	69	61	0	22	0.00			3.5	3.0	47		8	24
22	101	71	86	4	71	73	0	21	0.00			4.1	3.0	175	20		20
23	97	68	83	1	70	72	0	18	0.00			2.9	1.7	161	18		22
24	99	69	84	2	70	68	0	19	0.00			2.3	1.6	191			24
25	100	71	86	4	71	65	0	21	0.00			1.5	0.5	251			23
26	102	75	89	8	71	62	0	24	0.00 T			4.3	1.9	247	27		23
27	101	73	87	6	69	59	0	22	0.00			4.5	2.9	229			24
28	101	76	89	8	70	60	0	24	0.00			4.8	3.1	244			24
29	103	77	90	9	70	57	0	25	0.00			3.6	2.8	283			24
30	107	74	91	10	69	54	0	26	0.00			3.7	3.1	357	14	8	24
31	107	74	91	10	71	65	0	26	0.07			3.8	2.6	12	14	3 8	24
AG/TL	99.1	72.3	85.7		69.9	65	0	648	0.37			3.8					
NORM	93.8	71.1	82.5				0	540	2.84								
DFN	+5.3	+1.2	+3.2				+0	+108	-2.47								

Temperature Data

AVERAGE MONTHLY	85.7
DEPARTURE FROM NORMAL	+3.2
HIGHEST 107 ON 30	
LOWEST 65 ON 13	
NUMBER OF DAYS WITH	
MAX 32 OR BELOW	0
MAX 90 OR ABOVE	31
MIN 32 OR BELOW	0
MIN 0 OR BELOW	0
HEATING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	0
DEPARTURE FROM NORMAL	0
COOLING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	648
DEPARTURE FROM NORMAL	+108

Precipitation Data

TOTAL FOR THE MONTH	0.37
DEPARTURE FROM NORMAL	-2.47
GREATEST 24HR TOTAL	0.27
NUMBER OF DAYS WITH	
ò 0.01 INCH OR MORE PRECIP	3
ò 0.10 INCH OR MORE PRECIP	1
ò 0.50 INCH OR MORE PRECIP	0
ò 1.00 INCH OR MORE PRECIP	0

T -- trace
M -- estimated; value may be less than actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: September Year: 2000

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	107	72	90	10	70	63	0	25	0.00			3.8	2.9	3	20		24
2	105	71	88	8	69	63	0	23	0.00	T		3.6	2.6	355	17		23
3	103	76	90	10	66	49	0	25	0.00			2.7	1.9	41		8	22
4	105	72	89	9	67	53	0	24	0.00			5.0	4.5	52	20	8	24
5	95	71	83	4	66	60	0	18	0.00			11.2	10.7	29	21	8	24
6	93	66	80	1	65	66	0	15	0.00			7.8	6.8	44	19	8	23
7	75	69	72	-7	66	81	0	7	0.00	T		7.3	7.1	59			24
8	82	70	76	-3	71	86	0	11	0.01			4.5	3.6	78			22
9	87	74	81	2	73	86	0	16	0.15			5.2	3.5	148	17		24
10	91	73	82	3	73	83	0	17	0.01			4.4	3.4	171	18		23
11	95	72	84	6	73	77	0	19	0.00			4.3	3.4	164		1 2	23
12	85	73	79	1	72	87	0	14	0.01			5.1	2.9	53	24		23
13	89	68	79	1	70	79	0	14	0.00			3.8	3.4	43		8	22
14	94	70	82	4	69	75	0	17	0.00			1.6	1.1	343			20
15	87	67	77	0	56	51	0	12	0.00			9.6	9.0	38	22		24
16	83	57	70	-7	44	44	0	5	0.00			8.2	7.8	50	24		23
17	85	53	69	-8	45	45	0	4	0.00			6.9	6.5	52	16		24
18	91	51	71	-5	50	56	0	6	0.00			1.5	0.3	7			24
19	93	54	74	-2	61	64	0	9	0.00			5.9	5.2	192			24
20	98	73	86	10	73	76	0	21	0.00	T		7.2	7.0	191	20		22
21	86	66	76	0	66	73	0	11	0.05			6.0	5.0	46	17		22
22	89	71	80	5	75	90	0	15	0.01			5.0	4.1	171	18		24
23	95	76	86	11	76	82	0	21	0.03			6.7	5.3	180	20	3	24
24	95	73	84	9	74	87	0	19	0.35			5.5	2.4	236	17		24
25	75	57	66	-8	55	79	0	1	0.18			10.0	9.5	327	20		23
26	72	51	62	-12	48	67	3	0	0.00			7.1	6.8	38	18		24
27	80	46	63	-11	47	64	2	0	0.00			4.0	3.3	42			24

28	83	49	66	-7	49	60	0	1	0.00			6.4	6.2	29	19		24
29	84	51	68	-4	50	60	0	3	0.00			5.1	4.8	39	17		24
30	86	48	67	-5	51	65	0	2	0.00			2.0	0.8	58		1	24
AG/TL	89.6	64.7	77.2		63.0	69	5	375	0.80			5.6					
NORM	88.6	65.0	76.8				3	358	3.37								
DFN	+1.0	-0.3	+0.3				+2	+17	-2.57								

Temperature Data

AVERAGE MONTHLY 77.2
DEPARTURE FROM NORMAL +0.3
HIGHEST 107 ON 1
LOWEST 46 ON 27
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 14
MIN 32 OR BELOW 0
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 5
DEPARTURE FROM NORMAL +2
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 375
DEPARTURE FROM NORMAL +17

Precipitation Data

TOTAL FOR THE MONTH 0.80
DEPARTURE FROM NORMAL -2.57
GREATEST 24HR TOTAL 0.53
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 9
ò 0.10 INCH OR MORE PRECIP 3
ò 0.50 INCH OR MORE PRECIP 0
ò 1.00 INCH OR MORE PRECIP 0

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: October Year: 2000

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	89	55	72	0	60	72	0	7	0.00			3.0	2.4	172	16		24
2	90	63	77	5	63	73	0	12	0.00			4.4	3.9	175			18
3	90	60	75	3	61	66	0	10	0.00			3.8	3.2	152			21
4	90	59	75	4	60	65	0	10	0.00			3.5	2.9	170			24
5	89	63	76	6	72	91	0	11	0.38			3.1	1.5	191		1 2	24
6	75	56	66	-4	60	87	0	1	0.73			9.9	8.6	22	22	3	23
7	57	48	53	-16	40	65	12	0	0.02			10.2	10.0	19	23		24
8	56	40	48	-21	27	45	17	0	0.00			10.7	10.5	19	22		23
9	60	39	50	-19	34	61	15	0	0.00			5.1	4.7	26	20		24
10	67	35	51	-17	35	65	14	0	0.00			2.5	1.8	35			24
11	75	35	55	-13	39	66	10	0	0.00			2.2	1.6	58			24
12	81	40	61	-7	43	64	4	0	0.00			1.2	0.5	71			24
13	84	42	63	-4	44	63	2	0	0.00			2.1	1.4	152			24
14	83	47	65	-2	55	73	0	0	0.00			2.7	1.9	186		8	23
15	83	53	68	2	56	71	0	3	0.00			1.5	0.7	179			24
16	83	55	69	3	63	79	0	4	0.00 T			4.9	3.7	237		1	24
17	81	56	69	3	60	79	0	4	0.00			5.4	4.2	346		8	24
18	80	54	67	1	54	72	0	2	0.00			5.0	4.7	12	15	8	24

19	80	49	65	-1	50	71	0	0	0.00		2.1	1.3	49	18	2		24
20	79	46	63	-2	50	68	2	0	0.01		1.2	0.6	355		2		24
21	83	57	70	6	53	55	0	5	0.00	T	2.9	1.1	83				21
22	82	65	74	10	40	35	0	9	0.00		4.0	2.4	135		8		24
23	85	60	73	9	60	71	0	8	0.00		2.6	1.4	99				24
24	85	54	70	7	55	68	0	5	0.00		1.9	0.6	125	14			24
25	84	53	69	6	54	68	0	4	0.00		2.4	2.2	175	14	8		24
26	84	51	68	5	54	69	0	3	0.00		2.2	1.6	168				23
27	85	53	69	7	53	66	0	4	0.00		1.3	0.6	136		8		22
28	85	52	69	7	57	75	0	4	0.00		1.3	0.2	280				22
29	86	55	71	9	57	68	0	6	0.00		4.3	4.0	174	16	8		24
30	85	55	70	9	60	73	0	5	0.00		3.2	2.2	180		2	8	24
31	85	56	71	10	59	72	0	6	0.00		3.4	2.8	174		8		24
AG/TL	80.7	51.8	66.2		52.5	68	76	123	1.14		3.7						
NORM	79.6	53.0	66.3				68	108	3.91								
DFN	+1.1	-1.2	-0.1				+8	+15	-2.77								

Temperature Data

AVERAGE MONTHLY 66.2
DEPARTURE FROM NORMAL -0.1
HIGHEST 90 ON 2
LOWEST 35 ON 10
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 3
MIN 32 OR BELOW 0
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 76
DEPARTURE FROM NORMAL +8
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 123
DEPARTURE FROM NORMAL +15

Precipitation Data

TOTAL FOR THE MONTH 1.14
DEPARTURE FROM NORMAL -2.77
GREATEST 24HR TOTAL 1.11
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 4
ò 0.10 INCH OR MORE PRECIP 2
ò 0.50 INCH OR MORE PRECIP 1
ò 1.00 INCH OR MORE PRECIP 0

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: November Year: 2000

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	85	55	70	9	59	74	0	5	0.00			4.9	4.4	172		1 2 8	23
2	75	60	68	7	65	91	0	3	0.11			3.3	2.8	169		1 2 8	24
3	69	61	65	4	65	98	0	0	0.45			2.1	1.8	33		2	24
4	68	63	66	5	64	97	0	1	0.27			4.8	4.4	66			24
5	69	62	66	6	65	97	0	1	0.07			4.4	3.5	63		1	23
6	76	59	68	9	61	86	0	3	0.44			7.3	5.1	192	16		19
7	70	46	58	-1	51	80	7	0	0.29			7.6	6.5	28	18		24
8	69	52	61	3	57	96	4	0	2.31			7.8	2.5	21	20	3	24
9	55	36	46	-12	40	82	19	0	0.00	T		9.5	7.9	280	23		24

10	48	35	42	-16	38	83	23	0	0.00		5.2	4.8	46			24
11	51	39	45	-12	38	81	20	0	0.00		4.3	3.3	59			24
12	68	41	55	-2	46	77	10	0	0.10		2.1	0.8	49			24
13	55	39	47	-10	44	87	18	0	0.21		7.1	6.8	347			24
14	56	31	44	-12	30	67	21	0	0.00		3.8	3.2	338			24
15	57	29	43	-13	34	67	22	0	0.00		3.2	2.8	159			24
16	56	50	53	-3	50	94	12	0	1.13		4.9	1.6	4			24
17	50	38	44	-11	35	73	21	0	0.00		6.6	5.8	39			24
18	39	36	38	-17	33	84	27	0	0.53		6.1	5.8	47			23
19	56	36	46	-9	37	80	19	0	0.11		3.7	3.2	4			24
20	58	32	45	-10	30	63	20	0	0.00		4.0	3.1	347			24
21	53	27	40	-14	25	63	25	0	0.00		2.3	0.0	73			24
22	62	28	45	-9	34	69	20	0	0.00		3.6	3.4	186			24
23	59	46	53	-1	48	89	12	0	0.82		4.1	2.1	107			23
24	59	50	55	1	52	95	10	0	2.17		7.1	2.8	3	20		24
25	63	44	54	1	45	79	11	0	0.00		6.9	6.6	268			24
26	62	38	50	-3	38	70	15	0	0.00		4.0	3.8	252			23
27	68	35	52	-1	39	72	13	0	0.00		2.3	1.9	209			23
28	70	42	56	4	48	76	9	0	0.00	T	4.6	4.5	175			23
29	62	38	50	-2	45	78	15	0	0.20		3.5	2.0	60			24
30	59	35	47	-5	33	66	18	0	0.00		4.2	3.2	61			24
AG/TL	61.6	42.8	52.2		45.0	80	391	13	9.21		4.8					
NORM	67.7	44.6	56.2				282	16	4.45							
DFN	-6.1	-1.8	-4.0				+109	-3	+4.76							

Temperature Data

AVERAGE MONTHLY 52.2
DEPARTURE FROM NORMAL -4.0
HIGHEST 85 ON 1
LOWEST 27 ON 21
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 0
MIN 32 OR BELOW 5
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 391
DEPARTURE FROM NORMAL +109
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 13
DEPARTURE FROM NORMAL -3

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: December Year: 2000

Precipitation Data

TOTAL FOR THE MONTH 9.21
DEPARTURE FROM NORMAL +4.76
GREATEST 24HR TOTAL 2.86
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 15
ò 0.10 INCH OR MORE PRECIP 14
ò 0.50 INCH OR MORE PRECIP 5
ò 1.00 INCH OR MORE PRECIP 3

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)				
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs

1	52	38	45	-7	42	84	20	0	0.02		2.9	1.3	359		1	22
2	47	34	41	-10	32	70	24	0	0.00		8.7	8.2	358			24
3	44	28	36	-15	26	66	29	0	0.00		8.1	7.6	43	17		24
4	51	28	40	-11	29	74	25	0	0.00		1.2	0.5	355			23
5	56	28	42	-8	33	77	23	0	0.00		1.9	1.2	70			24
6	46	35	41	-9	30	63	24	0	0.01		2.8	2.1	13		8	24
7	53	28	41	-9	31	78	24	0	0.00		1.9	1.8	209		1 2 8	23
8	61	28	45	-5	37	81	20	0	0.00		2.1	1.3	38		1 2 8	24
9	61	32	47	-3	39	77	18	0	0.00		2.7	2.2	47			24
10	70	41	56	7	50	79	9	0	0.00		3.4	3.2	166			24
11	71	30	51	2	50	81	14	0	0.10		10.0	2.9	231	28		21
12	33	23	28	-21	17	61	37	0	0.00		9.9	8.9	41			23
13	35	30	33	-16	28	82	32	0	0.56		5.6	3.2	11			23
14	41	34	38	-11	33	86	27	0	0.00		5.2	4.1	24			24
15	56	34	45	-3	38	96	20	0	0.61		4.6	2.4	108		2	24
16	69	33	51	3	46	76	14	0	0.08		15.0	10.9	268	36	3	24
17	38	24	31	-17	10	44	34	0	0.00		6.0	3.2	322	22		24
18	49	25	37	-11	27	69	28	0	0.09		7.5	3.3	284	24		24
19	37	21	29	-19	15	54	36	0	0.00		8.6	8.1	319	24		23
20	48	21	35	-13	23	64	30	0	0.07		6.6	5.7	161	16		24
21	48	29	39	-8	27	65	26	0	0.01		7.3	7.1	9	17		24
22	37	22	30	-17	15	59	35	0	0.00		4.9	4.2	38			24
23	38	23	31	-16	21	62	34	0	0.00 T		4.0	2.4	74			24
24	43	34	39	-8	31	77	26	0	0.03		7.6	7.2	43	17	8	23
25	35	31	33	-14	28	87	32	0	0.63		7.8	7.7	47			24
26	46	31	39	-7	34	88	26	0	0.26		6.7	6.1	47	16		24
27	44	37	41	-5	39	97	24	0	1.57		6.4	5.4	7			23
28	37	33	35	-11	33	91	30	0	1.23		8.8	7.8	351	18		23
29	45	27	36	-10	27	74	29	0	0.00		7.7	7.5	323	20		23
30	38	23	31	-15	20	70	34	0	0.00		4.9	3.5	350			24
31	33	21	27	-19	21	80	38	0	0.17		3.4	2.5	34		1	20
AG/TL	47.2	29.2	38.2		30.1	75	822	0	5.44		5.9					
NORM	58.8	38.0	48.4				525	10	5.23							
DFN	-11.6	-8.8	-10.2				+297	-10	+0.21							

Temperature Data

AVERAGE MONTHLY	38.2
DEPARTURE FROM NORMAL	-10.2
HIGHEST 71 ON 11	
LOWEST 21 ON 19	
NUMBER OF DAYS WITH	
MAX 32 OR BELOW	0
MAX 90 OR ABOVE	0
MIN 32 OR BELOW	21
MIN 0 OR BELOW	0
HEATING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	822
DEPARTURE FROM NORMAL	+297
COOLING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	0
DEPARTURE FROM NORMAL	-10

Precipitation Data

TOTAL FOR THE MONTH	5.44
DEPARTURE FROM NORMAL	+0.21
GREATEST 24HR TOTAL	1.67
NUMBER OF DAYS WITH	
ò 0.01 INCH OR MORE PRECIP	15
ò 0.10 INCH OR MORE PRECIP	8
ò 0.50 INCH OR MORE PRECIP	5
ò 1.00 INCH OR MORE PRECIP	2

T -- trace
M -- estimated; value may be less than actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: January Year: 2001

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)				
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	30	17	24	-22	19	80	41	0	0.02			5.6	5.3	44			23
2	29	15	22	-24	14	74	43	0	0.00			5.9	5.5	44			24
3	38	14	26	-20	18	73	39	0	0.00			2.2	1.0	255			24
4	50	22	36	-10	27	75	29	0	0.00			1.9	1.1	168			24
5	66	27	47	1	32	65	18	0	0.00			3.5	2.2	316			20
6	65	28	47	1	30	44	18	0	0.00			4.3	3.2	167			18
7	59	42	51	5	46	83	14	0	0.02			5.7	1.3	11	19		24
8	54	30	42	-3	31	68	23	0	0.00			5.1	5.0	333	18		24
9	47	26	37	-8	26	69	28	0	0.00			4.2	3.6	57			24
10	46	23	35	-10	26	71	30	0	0.14			2.6	1.7	110			24
11	45	38	42	-3	40	93	23	0	0.66			4.5	2.5	322	15		24
12	43	40	42	-3	38	89	23	0	0.00			3.8	2.5	28			24
13	49	39	44	-1	40	88	21	0	0.09			6.0	5.0	153			24
14	68	46	57	12	46	78	8	0	0.00			5.0	3.0	233			23
15	58	35	47	1	36	66	18	0	0.00			5.7	5.0	49			24
16	48	42	45	-1	41	89	20	0	0.77			6.0	4.9	53			23
17	43	40	42	-4	41	95	23	0	0.42			8.3	7.9	38			24
18	41	38	40	-6	39	97	25	0	1.95			7.6	6.8	3	16		24
19	44	33	39	-7	33	80	26	0	0.77			9.6	9.3	350	20		24
20	41	26	34	-12	22	69	31	0	0.00			4.4	4.0	321			24
21	44	24	34	-12	26	75	31	0	0.00			1.0	0.5	90			24
22	53	27	40	-6	30	75	25	0	0.00			1.0	0.5	347			24
23	52	28	40	-6	33	81	25	0	0.00			1.5	1.3	180			24
24	61	36	49	3	38	73	16	0	0.00			2.8	2.3	305			24
25	49	33	41	-6	29	59	24	0	0.00			6.0	5.6	46			24
26	64	34	49	2	41	73	16	0	0.00 T			4.7	3.9	194	17	2 8	22
27	50	40	45	-2	38	75	20	0	0.00			8.7	8.5	47	19	2 8	24
28	69	42	56	9	48	73	9	0	0.01			5.4	3.6	126			24
29	65	48	57	10	52	89	8	0	0.94			11.0	7.7	197	31		24
30	70	46	58	11	41	61	7	0	0.00			11.1	10.5	227	31		24
31	59	39	49	1	35	62	16	0	0.00			6.1	5.4	305	18		24
AG/TL	51.6	32.8	42.2		34.1	76	698	0	5.79			5.2					
NORM	56.0	35.9	46.0				597	7	5.46								
DFN	-4.4	-3.1	-3.8				+101	-7	+0.33								

Temperature Data

AVERAGE MONTHLY	42.2
DEPARTURE FROM NORMAL	-3.8
HIGHEST 70 ON 30	
LOWEST 14 ON 3	
NUMBER OF DAYS WITH	
MAX 32 OR BELOW	2

Precipitation Data

TOTAL FOR THE MONTH	5.79
DEPARTURE FROM NORMAL	+0.33
GREATEST 24HR TOTAL	2.02
NUMBER OF DAYS WITH	
ò 0.01 INCH OR MORE PRECIP	11
ò 0.10 INCH OR MORE PRECIP	7

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime

MAX 90 OR ABOVE 0 ò 0.50 INCH OR MORE PRECIP 5
MIN 32 OR BELOW 13 ò 1.00 INCH OR MORE PRECIP 1
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 698
DEPARTURE FROM NORMAL +101
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 0
DEPARTURE FROM NORMAL -7

7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

T -- trace
M -- estimated;
value may be less than
actual daily total

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: February Year: 2001

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	58	33	46	-2	30	57	19	0	0.00			4.0	3.1	6			22
2	46	27	37	-11	24	55	28	0	0.00			6.1	5.2	9	17		24
3	54	23	39	-9	23	62	26	0	0.00			2.7	2.2	163			23
4	63	28	46	-2	26	50	19	0	0.00			6.0	3.8	275			24
5	61	29	45	-4	29	53	20	0	0.00			3.5	0.9	222			24
6	72	32	52	3	43	68	13	0	0.00			6.7	6.5	183			24
7	74	50	62	13	53	72	3	0	0.00			6.8	6.5	167			24
8	76	55	66	17	57	74	0	1	0.00			9.2	8.8	161	22		24
9	73	35	54	4	50	80	11	0	0.20			12.8	4.9	268	22		23
10	45	30	38	-12	27	70	27	0	0.00			9.7	8.5	36	22		24
11	39	34	37	-13	33	87	28	0	1.02			6.6	6.2	48			24
12	50	39	45	-5	45	97	20	0	0.37			3.9	3.7	51			24
13	67	50	59	8	59	99	6	0	0.01			3.0	2.7	163		1 2	23
14	77	62	70	19	65	91	0	5	0.00 T			7.7	7.5	184		1 2	23
15	80	59	70	19	63	91	0	5	0.43			8.6	1.4	150	15		24
16	67	41	54	3	52	93	11	0	0.78			9.5	8.2	14	27		23
17	50	33	42	-10	29	70	23	0	0.00			9.1	8.5	23	22		24
18	51	28	40	-12	29	70	25	0	0.00			4.5	3.8	45			24
19	67	30	49	-3	40	70	16	0	0.00			4.3	4.2	179			24
20	70	53	62	10	57	83	3	0	0.00			3.4	3.1	191			23
21	73	52	63	11	56	87	2	0	0.00 T			3.2	2.2	61			24
22	56	42	49	-3	42	81	16	0	0.00 T			8.2	6.5	14			24
23	63	41	52	-1	43	75	13	0	0.00			6.5	5.5	89	17		24
24	79	59	69	15	63	83	0	4	1.33			11.5	10.4	176	27	3	24
25	73	52	63	9	50	69	2	0	0.00			4.7	2.2	51			24
26	63	50	57	3	46	68	8	0	0.00 T			7.4	7.3	54			24
27	61	51	56	2	56	97	9	0	3.45			4.5	2.5	49	18	3	24
28	56	46	51	-4	48	95	14	0	1.40			9.2	8.4	36	22	3	24
AG/TL	63.0	41.6	52.3		44.2	77	362	15	8.99			6.5					
NORM	61.9	40.0	51.0				400	6	4.34								
DFN	+1.1	+1.6	+1.3				-38	+9	+4.65								

Temperature Data

AVERAGE MONTHLY	52.3
DEPARTURE FROM NORMAL	+1.3
HIGHEST 80 ON 15	
LOWEST 23 ON 3	
NUMBER OF DAYS WITH	
MAX 32 OR BELOW	0
MAX 90 OR ABOVE	0
MIN 32 OR BELOW	8
MIN 0 OR BELOW	0
HEATING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	362
DEPARTURE FROM NORMAL	-38
COOLING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	15
DEPARTURE FROM NORMAL	+9

Precipitation Data

TOTAL FOR THE MONTH	8.99
DEPARTURE FROM NORMAL	+4.65
GREATEST 24HR TOTAL	3.93
NUMBER OF DAYS WITH	
ò 0.01 INCH OR MORE PRECIP	9
ò 0.10 INCH OR MORE PRECIP	8
ò 0.50 INCH OR MORE PRECIP	5
ò 1.00 INCH OR MORE PRECIP	4

T -- trace
M -- estimated; value may be less than actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: March Year: 2001

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	51	46	49	-6	48	97	16	0	1.45			4.9	3.4	23		3	24
2	51	49	50	-5	49	96	15	0	0.79			5.6	5.0	19			24
3	52	49	51	-4	49	96	14	0	0.74			8.3	5.4	19			23
4	63	45	54	-1	43	71	11	0	0.00 T			9.4	8.9	303	22		24
5	62	39	51	-4	33	54	14	0	0.00			5.8	5.2	332			24
6	56	40	48	-8	34	59	17	0	0.00			5.3	4.0	39	21		24
7	68	37	53	-3	38	64	12	0	0.00			1.5	0.5	191			24
8	72	44	58	1	45	64	7	0	0.01			5.2	0.9	169			22
9	58	39	49	-8	40	72	16	0	0.72			8.7	8.0	32	22		23
10	61	33	47	-10	35	67	18	0	0.00			2.8	1.5	145			24
11	62	38	50	-7	48	82	15	0	0.00			3.0	2.1	113			24
12	76	58	67	9	58	82	0	2	1.68			7.1	3.0	250	32	3	23
13	72	48	60	2	46	62	5	0	0.00			4.0	2.1	304			24
14	60	50	55	-3	50	87	10	0	1.09			4.3	3.1	162			23
15	68	43	56	-2	46	76	9	0	0.00			8.8	7.4	243	25	1	24
16	62	44	53	-5	38	59	12	0	0.00			10.6	9.4	314	26		24
17	54	40	47	-12	36	68	18	0	0.00			8.5	8.0	49			24
18	55	40	48	-11	35	65	17	0	0.00			10.8	10.3	46	22		24
19	62	45	54	-5	38	57	11	0	0.04			8.8	8.0	4	18		19
20	62	42	52	-7	38	63	13	0	0.00			7.8	7.5	348	23		24
21	68	38	53	-7	38	62	12	0	0.00			3.6	3.0	357			24
22	74	40	57	-3	44	61	8	0	0.00			4.1	3.8	161			24
23	74	46	60	0	50	70	5	0	0.00			2.4	1.5	178			24
24	68	49	59	-1	53	90	6	0	0.55			5.6	4.4	8	23		24
25	56	39	48	-13	31	54	17	0	0.00			8.0	6.9	20	15		24
26	51	43	47	-14	29	52	18	0	0.00 T			6.2	5.6	43			24
27	51	43	47	-14	35	65	18	0	0.00 T			3.6	2.0	73			24

28	50	44	47	-14	46	94	18	0	0.24		4.1	3.5	98		24
29	54	48	51	-10	49	95	14	0	0.63		4.7	3.4	29	3	22
30	59	48	54	-8	49	90	11	0	0.00		3.9	3.0	319		20
31	71	45	58	-4	49	73	7	0	0.01		3.8	2.3	275		23
AG/TL	61.4	43.6	52.5		42.6	72	384	2	7.95		5.8				
NORM	69.7	47.1	58.4				233	28	5.53						
DFN	-8.3	-3.5	-5.9				+151	-26	+2.42						

Temperature Data

AVERAGE MONTHLY	52.5
DEPARTURE FROM NORMAL	-5.9
HIGHEST 76 ON 12	
LOWEST 33 ON 10	
NUMBER OF DAYS WITH	
MAX 32 OR BELOW	0
MAX 90 OR ABOVE	0
MIN 32 OR BELOW	0
MIN 0 OR BELOW	0
HEATING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	384
DEPARTURE FROM NORMAL	+151
COOLING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	2
DEPARTURE FROM NORMAL	-26

Precipitation Data

TOTAL FOR THE MONTH	7.95
DEPARTURE FROM NORMAL	+2.42
GREATEST 24HR TOTAL	1.68
NUMBER OF DAYS WITH	
ò 0.01 INCH OR MORE PRECIP	12
ò 0.10 INCH OR MORE PRECIP	9
ò 0.50 INCH OR MORE PRECIP	8
ò 1.00 INCH OR MORE PRECIP	3

T -- trace
M -- estimated; value may be less than actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: April Year: 2001

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	69	45	57	-5	41	59	8	0	0.00			4.2	2.0	64			24
2	77	48	63	0	58	72	2	0	0.00 T			7.3	6.6	167			24
3	82	69	76	13	70	85	0	11	0.01			8.3	7.4	192	23		24
4	81	70	76	13	70	89	0	11	0.00 T			5.0	4.0	216			23
5	88	67	78	15	68	78	0	13	0.00			7.3	7.1	188	18		24
6	83	65	74	10	66	78	0	9	0.00			10.4	10.3	175	22		24
7	82	65	74	10	66	76	0	9	0.00			8.2	7.9	184	22		24
8	85	66	76	12	67	78	0	11	0.00			8.5	8.3	180	20		24
9	86	68	77	13	69	79	0	12	0.00			7.4	7.2	195			24
10	85	68	77	13	68	79	0	12	0.00			8.2	8.1	171	19		24
11	84	69	77	13	68	81	0	12	0.39			9.8	8.6	189	25		24
12	73	61	67	2	63	96	0	2	1.25			5.0	3.8	37			24
13	75	59	67	2	62	88	0	2	0.09			4.3	3.6	39			20
14	85	62	74	9	66	88	0	9	0.00 T			5.1	0.5	78			18
15	69	57	63	-3	62	96	2	0	1.63			4.2	0.2	33	36	1 3	24
16	74	53	64	-2	55	75	1	0	0.00			5.9	5.5	51	17	1	24
17	62	44	53	-13	37	54	12	0	0.00			9.0	8.7	17	22		24
18	66	39	53	-13	40	65	12	0	0.00			2.5	1.1	135			24

19	75	45	60	-7	46	62	5	0	0.00		7.2	7.1	180	18		23
20	80	61	71	4	58	68	0	6	0.00		9.8	9.7	179	24		24
21	85	60	73	6	65	78	0	8	0.00	T	8.8	8.5	171	18		24
22	82	67	75	8	63	72	0	10	0.00		8.9	8.5	163	19		24
23	83	59	71	4	66	84	0	6	1.52		7.8	4.0	191	21	3	23
24	71	53	62	-6	50	67	3	0	0.01		7.4	7.1	34			21
25	75	47	61	-8	46	62	4	0	0.00		2.7	2.1	38			23
26	82	50	66	-3	52	66	0	1	0.00		2.1	0.3	135			24
27	83	54	69	0	56	68	0	4	0.00		1.1	0.4	165			24
28	83	53	68	-1	55	68	0	3	0.00		2.3	1.9	121			24
29	85	54	70	0	58	68	0	5	0.00		1.3	0.6	117			24
30	83	56	70	0	57	66	0	5	0.00		3.5	2.4	142	17		24
AG/TL	79.1	57.8	68.4		58.9	75	49	161	4.90		6.1					
NORM	77.7	54.1	65.9				74	100	4.77							
DFN	+1.4	+3.7	+2.5				-25	+61	+0.13							

Temperature Data

AVERAGE MONTHLY 68.4
DEPARTURE FROM NORMAL +2.5
HIGHEST 88 ON 5
LOWEST 39 ON 18
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 0
MIN 32 OR BELOW 0
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 49
DEPARTURE FROM NORMAL -25
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 161
DEPARTURE FROM NORMAL +61

Precipitation Data

TOTAL FOR THE MONTH 4.90
DEPARTURE FROM NORMAL +0.13
GREATEST 24HR TOTAL 1.64
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 7
ò 0.10 INCH OR MORE PRECIP 4
ò 0.50 INCH OR MORE PRECIP 3
ò 1.00 INCH OR MORE PRECIP 3

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: May Year: 2001

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	81	59	70	0	59	72	0	5	0.00			3.9	3.5	152			24
2	83	58	71	1	60	71	0	6	0.00			4.1	3.1	157	16		22
3	85	62	74	3	60	67	0	9	0.00			3.2	1.7	134			24
4	85	60	73	2	61	68	0	8	0.00			4.9	4.0	152	18		21
5	84	67	76	5	61	69	0	11	0.00	T		5.1	4.9	159			23
6	85	65	75	4	64	71	0	10	0.00	T		5.8	4.9	174			24
7	80	62	71	0	65	84	0	6	1.66			4.1	2.3	207	27	3	24
8	80	64	72	0	65	85	0	7	0.65			1.7	0.8	37			24
9	83	63	73	0	64	84	0	8	0.30			1.8	1.0	215	23	3	24

10	84	66	75	2	64	73	0	10	0.00 T			5.4	5.0	187				18
11	84	62	73	0	64	77	0	8	0.00			3.0	2.1	203				24
12	85	63	74	0	65	79	0	9	0.00			3.0	1.5	341		3		23
13	85	59	72	-2	57	63	0	7	0.00			3.0	2.8	55				24
14	88	57	73	-1	60	68	0	8	0.00			0.8	0.5	165				23
15	88	60	74	0	63	67	0	9	0.00			5.2	4.3	219	17	8		24
16	87	61	74	-1	63	69	0	9	0.00			6.4	5.8	213				24
17	87	65	76	1	66	71	0	11	0.00			7.0	6.7	194	15			24
18	87	64	76	1	68	72	0	11	0.00			7.8	7.4	207	19			24
19	87	69	78	3	71	80	0	13	0.02			4.6	2.2	213	23	3		20
20	89	71	80	5	71	77	0	15	0.00			8.4	8.1	201	19			24
21	89	59	74	-2	65	72	0	9	0.26			10.6	3.0	250	25			24
22	77	54	66	-10	49	62	0	1	0.00			6.0	5.2	328	18			24
23	86	53	70	-6	53	54	0	5	0.00			8.8	7.9	226	19			24
24	85	61	73	-3	56	56	0	8	0.00 T			8.4	4.6	292	18			24
25	80	53	67	-10	52	63	0	2	0.00			4.0	3.2	315	16			23
26	85	58	72	-5	59	66	0	7	0.00			3.4	2.6	246				24
27	86	69	78	1	69	74	0	13	0.00 T			6.1	5.5	214				20
28	84	70	77	0	69	79	0	12	0.01			6.4	4.8	223				24
29	89	67	78	0	69	74	0	13	0.00			2.7	1.9	63				23
30	89	69	79	1	72	74	0	14	0.00 T			3.8	2.6	197				17
31	81	68	75	-3	70	82	0	10	0.25			5.7	5.3	216				14
AG/TL	84.8	62.5	73.7		63.0	72	0	274	3.15			5.0						
NORM	85.2	63.4	74.3				8	296	5.47									
DFN	-0.4	-0.9	-0.7				-8	-22	-2.32									

Temperature Data

AVERAGE MONTHLY 73.7
DEPARTURE FROM NORMAL -0.7
HIGHEST 89 ON 20
LOWEST 53 ON 23
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 0
MIN 32 OR BELOW 0
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 0
DEPARTURE FROM NORMAL -8
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 274
DEPARTURE FROM NORMAL -22

Precipitation Data

TOTAL FOR THE MONTH 3.15
DEPARTURE FROM NORMAL -2.32
GREATEST 24HR TOTAL 1.95
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 7
ò 0.10 INCH OR MORE PRECIP 5
ò 0.50 INCH OR MORE PRECIP 2
ò 1.00 INCH OR MORE PRECIP 1

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: June Year: 2001

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs

1	84	63	74	-4	63	74	0	9	0.00		4.0	2.6	329				24
2	92	62	77	-2	69	75	0	12	0.00		6.6	5.9	228	21			22
3	94	75	85	6	72	74	0	20	0.00		9.4	9.0	205	24	3		22
4	89	71	80	1	73	86	0	15	0.03		7.2	6.4	184	24	3		22
5	90	70	80	1	70	84	0	15	0.86		4.6	2.7	148	21			23
6	80	70	75	-5	71	89	0	10	0.15		5.7	3.1	119	16			24
7	83	72	78	-2	72	90	0	13	0.22		3.5	2.1	76				24
8	85	70	78	-2	72	91	0	13	0.90		2.2	1.6	67	15	3		24
9	86	70	78	-2	72	87	0	13	0.01		3.3	2.8	58	15			24
10	89	69	79	-1	71	80	0	14	0.00		3.6	3.0	70				24
11	91	68	80	-1	71	77	0	15	0.00		3.3	2.3	39				23
12	92	68	80	-1	70	74	0	15	0.00		1.7	1.1	135				24
13	92	73	83	2	74	78	0	18	0.00		6.4	6.0	178				24
14	93	77	85	4	75	77	0	20	0.00		9.0	8.8	182	18			24
15	85	68	77	-4	69	82	0	12	0.46		5.9	3.2	269	19	3		24
16	91	66	79	-2	65	68	0	14	0.00		3.0	2.1	16		1 2		24
17	93	64	79	-2	64	65	0	14	0.00		4.1	3.8	47				24
18	94	68	81	-1	67	66	0	16	0.00		2.2	1.1	121				24
19	93	68	81	-1	69	69	0	16	0.00		2.0	1.2	122				23
20	92	69	81	-1	71	79	0	16	0.00		2.7	0.4	192				24
21	91	69	80	-2	71	80	0	15	0.73		6.0	4.1	256		3		24
22	85	66	76	-6	66	77	0	11	0.00 T		4.5	3.6	342	17			24
23	88	61	75	-7	63	71	0	10	0.00		1.6	0.3	59				24
24	90	65	78	-4	65	68	0	13	0.00		1.5	0.5	7				24
25	90	66	78	-4	65	68	0	13	0.00		2.6	1.9	56	14			23
26	90	66	78	-5	67	74	0	13	0.00 T		2.1	0.8	120				24
27	87	68	78	-5	70	88	0	13	0.09		3.3	2.3	187	25	3		24
28	83	66	75	-8	69	90	0	10	0.23		4.3	3.7	190		1 3		24
29	84	66	75	-8	69	94	0	10	0.93		3.3	2.1	193		1 2 3		23
30	86	68	77	-6	70	92	0	12	1.07		2.8	0.8	212		3		24
AG/TL	88.7	68.1	78.4		69.2	79	0	410	5.68		4.1						
NORM	91.9	70.2	81.1				0	481	4.47								
DFN	-3.2	-2.1	-2.7				+0	-71	+1.21								

Temperature Data

AVERAGE MONTHLY	78.4
DEPARTURE FROM NORMAL	-2.7
HIGHEST 94 ON 3	
LOWEST 61 ON 23	
NUMBER OF DAYS WITH	
MAX 32 OR BELOW	0
MAX 90 OR ABOVE	16
MIN 32 OR BELOW	0
MIN 0 OR BELOW	0
HEATING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	0
DEPARTURE FROM NORMAL	0
COOLING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	410
DEPARTURE FROM NORMAL	-71

Precipitation Data

TOTAL FOR THE MONTH	5.68
DEPARTURE FROM NORMAL	+1.21
GREATEST 24HR TOTAL	1.07
NUMBER OF DAYS WITH	
ò 0.01 INCH OR MORE PRECIP	12
ò 0.10 INCH OR MORE PRECIP	9
ò 0.50 INCH OR MORE PRECIP	5
ò 1.00 INCH OR MORE PRECIP	1

T -- trace
M -- estimated; value may be less than actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: July Year: 2001

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv		Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	89	67	78	-5	72	83	0	13	0.00				1.9	0.6	51			24
2	93	72	83	0	73	76	0	18	0.00				3.7	2.3	52			24
3	91	74	83	0	74	82	0	18	0.00				2.5	1.3	198			24
4	92	72	82	-1	74	81	0	17	0.00				3.3	1.6	216			23
5	93	73	83	0	75	80	0	18	0.00	T			3.9	2.2	239			24
6	95	73	84	1	75	79	0	19	0.01				3.0	1.8	215			24
7	94	72	83	0	75	78	0	18	0.00				2.7	2.1	191			24
8	94	75	85	2	74	77	0	20	0.00				3.0	2.7	205			23
9	95	74	85	2	75	76	0	20	0.00				4.2	3.4	246			24
10	96	77	87	4	75	71	0	22	0.00	T			4.4	3.6	264	16		23
11	97	77	87	4	76	68	0	22	0.00				5.7	4.7	281	16		24
12	97	75	86	3	76	73	0	21	0.00				5.4	3.1	233			24
13	84	75	80	-3	74	84	0	15	0.00	T			5.0	0.7	16	15		23
14	89	66	78	-5	66	67	0	13	0.00				5.0	4.3	46			24
15	90	66	78	-6	64	65	0	13	0.00				2.3	1.8	68			24
16	93	65	79	-5	70	71	0	14	0.00				3.4	2.5	184	14		24
17	92	74	83	-1	73	75	0	18	0.00				2.4	1.9	163			24
18	95	70	83	-1	72	72	0	18	0.00				1.3	0.6	211		8	23
19	96	72	84	0	73	73	0	19	0.00				2.2	1.1	116		8	24
20	96	72	84	0	74	74	0	19	0.00				1.4	0.8	275		8	24
21	98	77	88	4	74	68	0	23	0.00				3.5	0.5	327			23
22	96	75	86	2	75	74	0	21	0.00				3.1	2.5	81			24
23	96	74	85	1	73	70	0	20	0.00				2.1	1.0	72			24
24	96	72	84	0	72	73	0	19	0.00				1.8	0.5	107			24
25	97	73	85	1	73	72	0	20	0.00				2.3	0.5	129		8	24
26	90	73	82	-2	76	89	0	17	1.09				2.9	2.2	189		3	24
27	85	74	80	-4	75	93	0	15	2.40				3.5	2.7	187			22
28	91	75	83	-1	75	82	0	18	0.00				4.8	4.1	203			23
29	92	74	83	-1	76	82	0	18	0.00				5.3	4.6	201			24
30	94	76	85	1	76	80	0	20	0.00				4.8	3.9	202			24
31	96	77	87	4	75	75	0	22	0.00				3.0	1.1	211			24
AG/TL	93.3	72.9	83.1		73.5	76	0	568	3.50				3.3					
NORM	94.3	72.7	83.5				0	574	3.50									
DFN	-1.0	+0.2	-0.4				+0	-6	+0.00									

Temperature Data		Precipitation Data		Weather Occurrences Legend
AVERAGE MONTHLY	83.1	TOTAL FOR THE MONTH	3.50	1 = fog
DEPARTURE FROM NORMAL	-0.4	DEPARTURE FROM NORMAL	+0.00	2 = fog reducing visibility to 1/4 mile or less
HIGHEST 98 ON 21		GREATEST 24HR TOTAL	3.48	3 = thunder
LOWEST 65 ON 16		NUMBER OF DAYS WITH		4 = ice pellets
NUMBER OF DAYS WITH		ò 0.01 INCH OR MORE PRECIP	3	5 = hail
MAX 32 OR BELOW	0	ò 0.10 INCH OR MORE PRECIP	2	6 = glaze or rime

```
 MAX 90 OR ABOVE            27     ò 0.50 INCH OR MORE PRECIP  2      7 = blowing dust or sand: visibility 1/2 mile or less
 MIN 32 OR BELOW             0     ò 1.00 INCH OR MORE PRECIP  2      8 = smoke or haze
 MIN  0 OR BELOW             0                                        9 = blowing snow
HEATING DEGREE DAYS (BASE 65)                                        x = tornado
 TOTAL THIS MONTH            0
  DEPARTURE FROM NORMAL      0    T -- trace                          obs -- number of hourly observations received
COOLING DEGREE DAYS (BASE 65)     M -- estimated;                            by the SRCC for that day
 TOTAL THIS MONTH          568         value may be less than
  DEPARTURE FROM NORMAL     -6         actual daily total             * -- values use Daily Normals calculated by SRCC
Preliminary Daily Summary:  SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month:          August      Year: 2001
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	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	90	75	83	-1	75	81	0	18	0.00			3.6	2.4	90			24
2	92	73	83	-1	72	73	0	18	0.00			4.6	3.8	72	16		24
3	94	69	82	-2	70	71	0	17	0.00			2.1	1.5	75			24
4	95	72	84	0	73	76	0	19	0.00	T		2.3	1.8	348		8	24
5	94	73	84	1	73	74	0	19	0.00			6.2	5.5	55	16		24
6	92	71	82	-1	73	78	0	17	0.00			4.4	4.1	50	14	3	24
7	91	71	81	-2	74	81	0	16	0.00			3.2	1.8	198			22
8	94	75	85	2	74	80	0	20	0.00			5.8	4.7	219			24
9	95	74	85	2	74	74	0	20	0.00			6.6	5.9	217	17		23
10	93	74	84	1	74	83	0	19	0.00			6.5	3.0	220	29	3	24
11	92	73	83	0	75	83	0	18	0.00			4.2	0.9	267		3	24
12	91	73	82	-1	75	92	0	17	0.58			3.0	1.2	225	27	3	24
13	91	74	83	0	76	90	0	18	0.22			4.3	1.6	321	19	3	23
14	91	73	82	-1	71	75	0	17	0.00			4.2	4.0	57			24
15	93	67	80	-3	69	70	0	15	0.00			2.0	1.1	107			24
16	94	71	83	0	74	86	0	18	0.00	T		2.6	1.1	305			24
17	89	72	81	-1	75	94	0	16	0.56			1.1	0.4	211		3	24
18	84	71	78	-4	72	93	0	13	0.91			5.2	4.3	224		3	24
19	86	70	78	-4	73	88	0	13	0.01			5.7	5.0	208			24
20	93	69	81	-1	74	83	0	16	0.00			2.1	1.5	173		1 2	23
21	94	71	83	1	74	75	0	18	0.00			2.9	2.1	190			22
22	95	73	84	2	74	76	0	19	0.00			1.6	1.0	200			24
23	95	73	84	2	74	77	0	19	0.00			1.2	0.8	197			24
24	92	73	83	1	72	76	0	18	0.00			3.2	2.8	194			24
25	91	70	81	-1	71	78	0	16	0.00			2.3	1.5	185			24
26	94	69	82	1	72	78	0	17	0.00			3.2	2.1	201			23
27	88	72	80	-1	71	82	0	15	0.01			4.0	3.2	235		3	24
28	86	71	79	-2	72	90	0	14	1.15			2.2	1.2	209			24
29	85	71	78	-3	72	91	0	13	0.05			2.4	2.3	189			24
30	80	71	76	-5	72	93	0	11	0.35			3.1	2.2	175		3	24
31	79	72	76	-5	74	95	0	11	0.55			3.4	1.7	197	35		23
AG/TL	90.7	71.8	81.2		73.0	82	0	515	4.39			3.5					
NORM	93.8	71.1	82.5				0	540	2.84								
DFN	-3.1	+0.7	-1.2				+0	-25	+1.55								

Temperature Data

AVERAGE MONTHLY	81.2
DEPARTURE FROM NORMAL	-1.2
HIGHEST 95 ON 4	
LOWEST 67 ON 15	
NUMBER OF DAYS WITH	
MAX 32 OR BELOW	0
MAX 90 OR ABOVE	23
MIN 32 OR BELOW	0
MIN 0 OR BELOW	0
HEATING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	0
DEPARTURE FROM NORMAL	0
COOLING DEGREE DAYS (BASE 65)	
TOTAL THIS MONTH	515
DEPARTURE FROM NORMAL	-25

Precipitation Data

TOTAL FOR THE MONTH	4.39
DEPARTURE FROM NORMAL	+1.55
GREATEST 24HR TOTAL	1.39
NUMBER OF DAYS WITH	
ò 0.01 INCH OR MORE PRECIP	10
ò 0.10 INCH OR MORE PRECIP	7
ò 0.50 INCH OR MORE PRECIP	5
ò 1.00 INCH OR MORE PRECIP	1

T -- trace
M -- estimated; value may be less than actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: September Year: 2001

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	77	72	75	-5	74	98	0	10	2.11			3.0	2.3	160			23
2	86	73	80	0	75	92	0	15	0.04			2.2	1.8	177			24
3	85	73	79	-1	76	93	0	14	0.40			1.9	0.6	164			24
4	86	72	79	-1	75	93	0	14	0.00 T			1.2	0.7	211		1	24
5	91	71	81	2	74	85	0	16	0.00			0.6	0.6	181		1 2	24
6	91	72	82	3	75	83	0	17	0.00 T			2.7	2.6	182			24
7	91	74	83	4	75	84	0	18	0.02			7.4	7.3	169	15		24
8	88	71	80	1	74	90	0	15	0.00 T			5.6	5.0	176			23
9	80	68	74	-5	69	89	0	9	0.28			3.7	1.6	318			24
10	85	63	74	-5	63	71	0	9	0.00			6.7	6.3	32	17		24
11	86	60	73	-5	62	71	0	8	0.00			4.6	3.9	21			24
12	90	65	78	0	68	76	0	13	0.00			4.1	3.6	3			24
13	91	68	80	2	71	78	0	15	0.00			4.6	4.0	57			21
14	90	69	80	2	69	77	0	15	0.00 T			3.6	3.4	36			24
15	86	65	76	-1	64	74	0	11	0.00			5.1	4.8	48		8	24
16	85	64	75	-2	62	69	0	10	0.00			1.8	1.0	33			24
17	87	65	76	-1	67	77	0	11	0.00			1.5	0.7	176			24
18	89	67	78	2	71	85	0	13	0.16			4.9	4.7	190	18		24
19	87	70	79	3	72	86	0	14	0.63			4.5	2.4	266	16		24
20	85	63	74	-2	67	83	0	9	0.02			3.4	2.8	43			24
21	81	61	71	-5	68	88	0	6	0.01			1.8	0.6	320			24
22	88	70	79	4	70	83	0	14	0.00			1.3	0.8	83			24
23	84	68	76	1	68	84	0	11	0.02			2.5	1.4	326			24
24	76	55	66	-9	59	77	0	1	0.01			8.4	8.2	16	17		24
25	73	49	61	-13	47	66	4	0	0.00			5.3	5.0	40			24
26	75	45	60	-14	45	65	5	0	0.00			3.5	3.4	54			24
27	79	45	62	-12	49	68	3	0	0.00			1.9	1.5	47			24

28	83	52	68	-5	51	63	0	3	0.00			4.3	3.7	36	16	24
29	78	54	66	-6	50	61	0	1	0.00			7.4	7.2	32	16	23
30	79	51	65	-7	51	69	0	0	0.00			4.5	4.3	24	19	24
AG/TL	84.4	63.8	74.1		65.4	79	12	292	3.70			3.8				
NORM	88.6	65.0	76.8				3	358	3.37							
DFN	-4.2	-1.2	-2.7				+9	-66	+0.33							

Temperature Data

AVERAGE MONTHLY 74.1
DEPARTURE FROM NORMAL -2.7
HIGHEST 91 ON 5
LOWEST 45 ON 26
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 6
MIN 32 OR BELOW 0
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 12
DEPARTURE FROM NORMAL +9
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 292
DEPARTURE FROM NORMAL -66

Precipitation Data

TOTAL FOR THE MONTH 3.70
DEPARTURE FROM NORMAL +0.33
GREATEST 24HR TOTAL 2.11
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 11
ò 0.10 INCH OR MORE PRECIP 5
ò 0.50 INCH OR MORE PRECIP 2
ò 1.00 INCH OR MORE PRECIP 1

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: October Year: 2001

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	80	48	64	-8	53	72	1	0	0.00			2.9	2.2	353			24
2	83	47	65	-7	51	71	0	0	0.00			1.3	0.9	170		2	24
3	82	47	65	-7	54	72	0	0	0.00			2.2	2.1	206			23
4	83	54	69	-2	59	74	0	4	0.00			4.0	3.8	179			23
5	87	55	71	1	64	85	0	6	1.75			6.8	2.6	215	20	3	24
6	67	48	58	-12	44	65	7	0	0.00			9.3	8.8	30	23		24
7	71	43	57	-12	43	66	8	0	0.00			4.5	3.8	50			24
8	79	43	61	-8	51	72	4	0	0.00			2.1	1.3	99			24
9	83	58	71	2	63	80	0	6	0.00			5.2	3.6	149	16		24
10	83	68	76	8	69	82	0	11	0.00 T			6.6	6.0	158	17		24
11	76	65	71	3	64	88	0	6	0.73			4.9	3.4	185			24
12	82	64	73	5	68	90	0	8	0.12			3.1	2.3	174	17	1 2	24
13	72	61	67	0	63	96	0	2	2.15			6.3	2.9	215	25	3	24
14	77	53	65	-2	55	80	0	0	0.00			3.5	2.6	273			24
15	80	49	65	-1	54	75	0	0	0.00			4.6	2.3	208	18		24
16	65	43	54	-12	38	60	11	0	0.00			7.3	7.0	357	21		24
17	66	40	53	-13	40	71	12	0	0.00			3.3	2.9	42			24
18	70	36	53	-13	41	71	12	0	0.00			2.8	1.4	158			24

19	74	40	57	-9	48	79	8	0	0.00		1.5	1.3	190		24
20	79	46	63	-2	53	80	2	0	0.00		1.3	0.4	176		24
21	79	48	64	0	57	82	1	0	0.00		0.9	0.5	198		23
22	83	54	69	5	63	84	0	4	0.00		4.0	3.5	181		24
23	84	66	75	11	68	82	0	10	0.00		7.8	7.4	192	19	24
24	87	62	75	12	68	80	0	10	0.43		9.3	6.3	213	23	23
25	74	48	61	-2	49	73	4	0	0.00		2.7	2.1	18		24
26	70	42	56	-7	39	64	9	0	0.00		4.0	3.9	48	15	24
27	61	36	49	-13	34	61	16	0	0.00		4.6	3.9	27	3	24
28	62	34	48	-14	34	69	17	0	0.00		2.4	1.5	58		24
29	67	32	50	-12	38	73	15	0	0.00		1.6	1.0	59		24
30	70	36	53	-8	40	74	12	0	0.00		0.8	0.3	33		24
31	74	36	55	-6	49	77	10	0	0.00		3.4	3.1	164		24
AG/TL	75.8	48.5	62.2		52.1	76	149	67	5.18		4.0				
NORM	79.6	53.0	66.3				68	108	3.91						
DFN	-3.8	-4.5	-4.2				+81	-41	+1.27						

Temperature Data

AVERAGE MONTHLY 62.2
DEPARTURE FROM NORMAL -4.2
HIGHEST 87 ON 5
LOWEST 32 ON 29
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 0
MIN 32 OR BELOW 1
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 149
DEPARTURE FROM NORMAL +81
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 67
DEPARTURE FROM NORMAL -41

Precipitation Data

TOTAL FOR THE MONTH 5.18
DEPARTURE FROM NORMAL +1.27
GREATEST 24HR TOTAL 2.23
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 5
ò 0.10 INCH OR MORE PRECIP 5
ò 0.50 INCH OR MORE PRECIP 3
ò 1.00 INCH OR MORE PRECIP 2

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: November Year: 2001

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs
1	80	51	66	5	59	80	0	1	0.00			6.0	5.6	177		2	24
2	82	56	69	8	61	84	0	4	0.00			2.8	2.0	168		2	24
3	81	53	67	6	58	78	0	2	0.00			4.4	4.0	38			24
4	78	53	66	5	49	64	0	1	0.00			6.3	5.9	34			24
5	77	45	61	1	47	63	4	0	0.00			3.9	3.6	44			21
6	76	47	62	3	49	68	3	0	0.00			1.6	1.5	43			18
7	76	42	59	0	48	77	6	0	0.00			0.3	0.1	280			24
8	76	43	60	2	50	77	5	0	0.00			1.0	0.3	342			20
9	70	50	60	2	51	86	5	0	0.00			2.9	2.5	44			19

10	73	47	60	2	53	82	5	0	0.00		1.2	0.8	234			24
11	73	47	60	3	53	85	5	0	0.00		1.3	1.1	22		2	24
12	74	47	61	4	49	73	4	0	0.00		2.4	1.9	50			22
13	74	45	60	3	49	76	5	0	0.00		1.8	1.2	136			24
14	73	47	60	4	51	79	5	0	0.00		2.8	2.1	77			23
15	76	46	61	5	50	77	4	0	0.00		2.3	1.6	78		1	24
16	74	43	59	3	49	73	6	0	0.00		2.6	2.4	55			24
17	75	41	58	3	48	78	7	0	0.00		1.0	0.6	43			24
18	77	40	59	4	47	75	6	0	0.00		1.7	1.5	204			24
19	73	48	61	6	54	86	4	0	0.04		6.6	2.7	313	21		24
20	59	33	46	-9	32	57	19	0	0.00		6.1	5.5	28	15		24
21	62	27	45	-9	30	68	20	0	0.00		1.0	0.4	35			23
22	68	38	53	-1	45	70	12	0	0.03		2.8	1.5	158			24
23	79	56	68	14	61	80	0	3	0.00		8.3	7.5	173	20	3	24
24	72	48	60	6	50	68	5	0	0.20		9.2	7.5	233	27		23
25	73	39	56	3	41	68	9	0	0.00		1.3	0.8	125			24
26	76	43	60	7	60	85	5	0	0.08		6.0	5.9	172	18	3	24
27	71	50	61	8	55	97	4	0	3.84		8.6	7.3	20		3	23
28	50	43	47	-5	44	97	18	0	2.88		9.3	8.4	23	18	3	24
29	47	37	42	-10	39	93	23	0	1.41		10.4	7.9	270	21	3	24
30	56	36	46	-6	39	85	19	0	0.00		5.0	4.3	199			24
AG/TL	71.7	44.7	58.2		49.0	78	208	11	8.48		4.0					
NORM	67.7	44.6	56.2				282	16	4.45							
DFN	+4.0	+0.1	+2.0				-74	-5	+4.03							

Temperature Data

AVERAGE MONTHLY 58.2
DEPARTURE FROM NORMAL +2.0
HIGHEST 82 ON 2
LOWEST 27 ON 21
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 0
MIN 32 OR BELOW 1
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 208
DEPARTURE FROM NORMAL -74
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 11
DEPARTURE FROM NORMAL -5

Precipitation Data

TOTAL FOR THE MONTH 8.48
DEPARTURE FROM NORMAL +4.03
GREATEST 24HR TOTAL 4.05
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 7
ò 0.10 INCH OR MORE PRECIP 4
ò 0.50 INCH OR MORE PRECIP 3
ò 1.00 INCH OR MORE PRECIP 3

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

Preliminary Daily Summary: SOUTHERN REGIONAL CLIMATE CENTER
Station: MONROE MLU AP
Month: December Year: 2001

	TEMPERATURE(øF)								PRECIPITATION(in.)			WIND(kts)					
Day	Max	Min	Avg	DFN	Dpt	RH%	HDD	CDD	Water Equiv	Snow/ Ice	S/I Gnd	Avg Spd	Res Spd	Res Dir	Peak Gust	Weather Occurrences	obs

1	66	37	52	0	44	84	13	0	0.00		0.8	0.6	84			23
2	63	41	52	1	47	88	13	0	0.00		0.5	0.3	50		1	24
3	72	40	56	5	47	77	9	0	0.00		1.5	1.3	155			24
4	75	45	60	9	52	78	5	0	0.00		2.4	2.0	152			24
5	74	57	66	16	63	90	0	1	0.00		5.4	4.6	156			22
6	76	61	69	19	64	90	0	4	0.00		6.3	5.9	194		8	23
7	75	62	69	19	64	89	0	4	0.00	T	6.2	6.0	197			24
8	68	50	59	9	55	87	6	0	1.27		7.3	4.6	351	18		24
9	51	41	46	-4	40	80	19	0	0.00		7.1	6.6	23	15		24
10	58	38	48	-1	40	81	17	0	0.00	T	3.0	2.4	353			24
11	57	37	47	-2	45	91	18	0	0.01		3.3	3.1	69			24
12	69	51	60	11	59	97	5	0	2.13		3.8	1.5	150	14		24
13	63	52	58	9	57	96	7	0	2.07		6.0	3.4	348	14	2 3	24
14	59	43	51	2	45	82	14	0	0.00		4.7	3.9	259			24
15	62	40	51	3	48	84	14	0	0.00	T	4.5	3.7	77		1	24
16	76	56	66	18	63	92	0	1	0.80		6.8	6.1	162	27		24
17	71	46	59	11	54	86	6	0	0.80		10.5	9.5	280	33		24
18	60	36	48	0	40	82	17	0	0.00		1.4	0.5	212		2	22
19	58	40	49	1	39	68	16	0	0.00		8.1	5.9	320	18		24
20	57	33	45	-3	32	69	20	0	0.00		1.9	0.8	48			24
21	62	30	46	-1	34	70	19	0	0.00		2.5	2.4	164			24
22	68	44	56	9	53	84	9	0	1.33		6.3	4.0	173	20	3	24
23	61	40	51	4	33	58	14	0	0.00		8.6	7.3	341			24
24	49	28	39	-8	22	54	26	0	0.00		3.5	2.7	335			24
25	44	28	36	-11	25	67	29	0	0.00		4.9	4.4	355			21
26	47	31	39	-7	23	58	26	0	0.00		7.1	5.6	286	22		24
27	60	25	43	-3	27	57	22	0	0.00		7.2	6.6	219	18		24
28	63	37	50	4	42	80	15	0	0.00		2.5	1.6	193			24
29	51	36	44	-2	34	71	21	0	0.00		7.3	5.4	43	21	1 2	22
30	44	30	37	-9	23	59	28	0	0.00		8.7	8.3	45	18		24
31	41	28	35	-11	22	63	30	0	0.00		6.4	5.5	46			23
AG/TL	61.3	40.7	51.0		43.1	78	438	10	8.41		5.0					
NORM	58.8	38.0	48.4				525	10	5.23							
DFN	+2.5	+2.7	+2.6				-87	+0	+3.18							

Temperature Data

AVERAGE MONTHLY 51.0
DEPARTURE FROM NORMAL +2.6
HIGHEST 76 ON 6
LOWEST 25 ON 27
NUMBER OF DAYS WITH
MAX 32 OR BELOW 0
MAX 90 OR ABOVE 0
MIN 32 OR BELOW 7
MIN 0 OR BELOW 0
HEATING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 438
DEPARTURE FROM NORMAL -87
COOLING DEGREE DAYS (BASE 65)
TOTAL THIS MONTH 10
DEPARTURE FROM NORMAL 0

Precipitation Data

TOTAL FOR THE MONTH 8.41
DEPARTURE FROM NORMAL +3.18
GREATEST 24HR TOTAL 2.18
NUMBER OF DAYS WITH
ò 0.01 INCH OR MORE PRECIP 7
ò 0.10 INCH OR MORE PRECIP 6
ò 0.50 INCH OR MORE PRECIP 6
ò 1.00 INCH OR MORE PRECIP 4

T -- trace
M -- estimated;
value may be less than
actual daily total

Weather Occurrences Legend

1 = fog
2 = fog reducing visibility to 1/4 mile or less
3 = thunder
4 = ice pellets
5 = hail
6 = glaze or rime
7 = blowing dust or sand: visibility 1/2 mile or less
8 = smoke or haze
9 = blowing snow
x = tornado

obs -- number of hourly observations received
by the SRCC for that day

* -- values use Daily Normals calculated by SRCC

MONROE WEATHER DATA FOR JULY, 2001

MONROE STATION WEATHER DATA FROM LOSC

Station: MONROE MLU AP
SRCC Preliminary Surface Airways (SA) Observations

(Date/Time)							-- WIND ---					Accum	Rn	6 Hour		Obs
YY	MM	DD	HH	Tem	Td	RH	Dir	Spd	Gst	SLP	Vis	Prcp	Cd	TMx	TMn	Time
---	CST	---		F	F	%	deg	kt	kt	mb	mi	in		F	F	(UTC)
SA	01	7	1	1	68	68	100	.	0	.	1016.4	6.0	0.00			06:53
								CLOUDS: BKN110								
SA	01	7	1	2	68	68	100	50	3	.	1016.0	6.0	0.00			07:53
								CLOUDS: CLR								
SA	01	7	1	3	69	69	100	.	0	.	1016.6	7.0	0.00			08:53
								CLOUDS: CLR								
SA	01	7	1	4	68	68	100	60	5	.	1017.0	7.0	0.00			09:53
								CLOUDS: CLR								
SA	01	7	1	5	69	69	100	100	3	.	1017.6	10.0	0.00			10:53
								CLOUDS: CLR								
SA	01	7	1	6	70	69	97	90	3	.	1018.3	7.0	0.00	70	67	11:53
								CLOUDS: FEW002								
SA	01	7	1	7	71	70	97	.	0	.	1018.5	9.0	0.00			12:53
								CLOUDS: FEW002								
SA	01	7	1	8	73	71	93	.	0	.	1018.9	10.0	0.00			13:53
								CLOUDS: FEW004								
SA	01	7	1	9	76	72	87	.	0	.	1018.7	10.0	0.00			14:53
								CLOUDS: FEW008								
SA	01	7	1	10	81	73	77	170	3	.	.	10.0	0.00			15:53
								CLOUDS: CLR								
SA	01	7	1	11	83	74	74	.	3	.	1018.5	10.0	0.00			16:53
								CLOUDS: BKN020								
SA	01	7	1	12	85	70	61	.	0	.	1017.8	10.0	0.00	86	70	17:53
								CLOUDS: CLR								
SA	01	7	1	13	87	72	61	.	3	.	1017.2	10.0	0.00			18:53
								CLOUDS: CLR								
SA	01	7	1	14	88	72	59	.	4	.	1016.7	10.0	0.00			19:53
								CLOUDS: CLR								
SA	01	7	1	15	88	72	59	70	5	.	1016.3	10.0	0.00			20:53
								CLOUDS: FEW038								
SA	01	7	1	16	85	73	67	.	3	.	1015.6	10.0	0.00			21:53
								CLOUDS: FEW060 SCT080								
SA	01	7	1	17	86	72	63	.	0	.	1015.9	10.0	0.00			22:53
								CLOUDS: CLR								

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SA 01  7  1 18   85  74  70   .    0  .  1015.9  10.0    0.00      89  84 23:53
                                CLOUDS: CLR
SA 01  7  1 19   82  76  82  310   3  .  1016.6  10.0    0.00          00:53
                                CLOUDS: CLR
SA 01  7  1 20   79  75  88   .    0  .  1017.1  10.0    0.00          01:53
                                CLOUDS: FEW090
SA 01  7  1 21   79  74  85  290   4  .  1017.8  10.0    0.00          02:53
                                CLOUDS: CLR
SA 01  7  1 22   75  73  94   .    0  .       .   10.0    0.00          03:53
                                CLOUDS: CLR
SA 01  7  1 23   76  73  90   .    0  .  1018.2  10.0    0.00          04:53
                                CLOUDS: CLR
SA 01  7  1 24   75  73  94  340   3  .  1017.8  10.0    0.00      85  75 05:53
                                CLOUDS: CLR
-------------------------------------------------------------------------------
 2001  7  1                     1.9  .                  0.00      89  67  (24)
Station: MONROE MLU AP
SRCC Preliminary Surface Airways (SA) Observations

   (Date/Time)              -- WIND ---                Accum  Rn  6 Hour  Obs
   YY MM DD HH  Tem  Td  RH  Dir Spd Gst    SLP   Vis    Prcp  Cd TMx TMn  Time
   --- CST ---    F   F   %  deg  kt  kt     mb    mi      in       F   F (UTC)
-------------------------------------------------------------------------------
SA 01  7  2  1   75  73  94   30   3  .  1017.3  10.0    0.00          06:53
                                CLOUDS: CLR
SA 01  7  2  2   74  72  94   .    0  .  1017.4  10.0    0.00          07:53
                                CLOUDS: CLR
SA 01  7  2  3   73  72  97   .    0  .  1017.6  10.0    0.00          08:53
                                CLOUDS: CLR
SA 01  7  2  4   74  72  94   .    0  .  1018.1  10.0    0.00          09:53
                                CLOUDS: CLR
SA 01  7  2  5   73  72  97   .    0  .  1018.5   9.0    0.00          10:53
                                CLOUDS: CLR
SA 01  7  2  6   75  73  94   80   4  .  1018.8  10.0    0.00      75  72 11:53
                                CLOUDS: CLR
SA 01  7  2  7   78  74  88   30   3  .  1019.3  10.0    0.00          12:53
                                CLOUDS: CLR
SA 01  7  2  8   82  74  77   30   4  .  1019.6  10.0    0.00          13:53
                                CLOUDS: CLR
SA 01  7  2  9   85  73  67   40   6  .  1019.7  10.0    0.00          14:53
                                CLOUDS: CLR
SA 01  7  2 10   88  72  59   30   5  .       .   10.0    0.00          15:53
                                CLOUDS: FEW032
```

```
SA 01  7  2 11   89  72  57   40   8  .  1020.0  10.0    0.00             16:53
                                CLOUDS: CLR
SA 01  7  2 12   90  73  57   10   7  .  1019.8  10.0    0.00      90  75 17:53
                                CLOUDS: FEW038
SA 01  7  2 13   90  72  56   70   7  .  1019.4  10.0    0.00             18:53
                                CLOUDS: CLR
SA 01  7  2 14   91  73  56   50  10  .  1018.7  10.0    0.00             19:53
                                CLOUDS: FEW046
SA 01  7  2 15   92  72  52    .   6  .  1018.1  10.0    0.00             20:53
                                CLOUDS: CLR
SA 01  7  2 16   91  72  54   50   7  .  1017.9  10.0    0.00             21:53
                                CLOUDS: CLR
SA 01  7  2 17   90  72  56   90   4  .  1018.1  10.0    0.00             22:53
                                CLOUDS: CLR
SA 01  7  2 18   89  73  59    .   0  .  1018.2  10.0    0.00      93  89 23:53
                                CLOUDS: CLR
SA 01  7  2 19   85  76  75    .   0  .  1018.3  10.0    0.00             00:53
                                CLOUDS: CLR
SA 01  7  2 20   83  75  77    .   0  .  1018.8  10.0    0.00             01:53
                                CLOUDS: CLR
SA 01  7  2 21   81  75  82    .   3  .       .  10.0    0.00             02:53
                                CLOUDS: CLR
SA 01  7  2 22   79  76  91  160   3  .  1020.0  10.0    0.00             03:53
                                CLOUDS: CLR
SA 01  7  2 23   77  75  94  190   4  .  1019.8  10.0    0.00             04:53
                                CLOUDS: CLR
SA 01  7  2 24   76  74  94  210   4  .  1019.7  10.0    0.00      89  76 05:53
                                CLOUDS: CLR
-------------------------------------------------------------------------------
 2001  7  2                     3.7  .                  0.00      93  72  (24)
Station: MONROE MLU AP
SRCC Preliminary Surface Airways (SA) Observations

   (Date/Time)              -- WIND ---                Accum  Rn  6 Hour  Obs
   YY MM DD HH  Tem  Td  RH  Dir Spd Gst    SLP   Vis    Prcp  Cd TMx TMn  Time
   --- CST ---    F   F   %  deg  kt  kt     mb    mi      in       F   F (UTC)
-------------------------------------------------------------------------------
SA 01  7  3  1   75  74  97  200   3  .  1019.3  10.0    0.00             06:53
                                CLOUDS: CLR
SA 01  7  3  2   75  73  94  170   4  .       .  10.0    0.00             07:53
                                CLOUDS: CLR
SA 01  7  3  3   75  74  97    .   0  .  1019.4  10.0    0.00             08:53
                                CLOUDS: FEW070
```

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SA 01  7  3  4   74  73  97   .    0  .  1019.4  10.0    0.00            09:53
                                CLOUDS: CLR
SA 01  7  3  5   74  73  97  190   3  .  1019.9  10.0    0.00            10:53
                                CLOUDS: CLR
SA 01  7  3  6   75  74  97   .    0  .  1020.6  10.0    0.00      77  74 11:53
                                CLOUDS: BKN060 BKN075
SA 01  7  3  7   75  74  97  160   5  .  1021.2  10.0    0.00            12:53
                                CLOUDS: CLR
SA 01  7  3  8   77  74  91  170   5  .  1021.5  10.0    0.00            13:53
                                CLOUDS: FEW110
SA 01  7  3  9   79  73  82  210   5  .  1021.3  10.0    0.00            14:53
                                CLOUDS: CLR
SA 01  7  3 10   81  73  77  180   5  .  1021.4  10.0    0.00            15:53
                                CLOUDS: CLR
SA 01  7  3 11   83  72  70  200   3  .  1021.7  10.0    0.00            16:53
                                CLOUDS: CLR
SA 01  7  3 12   87  75  68   .    3  .  1021.1  10.0    0.00      87  75 17:53
                                CLOUDS: CLR
SA 01  7  3 13   88  76  68   .    4  .  1020.0  10.0    0.00            18:53
                                CLOUDS: FEW029
SA 01  7  3 14   89  76  66   .    0  .  1019.2  10.0    0.00            19:53
                                CLOUDS: CLR
SA 01  7  3 15   90  74  59   .    0  .  1018.8  10.0    0.00            20:53
                                CLOUDS: FEW037
SA 01  7  3 16   90  74  59  220   5  .  1018.4  10.0    0.00            21:53
                                CLOUDS: FEW044
SA 01  7  3 17   88  75  65   .    0  .      .   10.0    0.00            22:53
                                CLOUDS: CLR
SA 01  7  3 18   84  74  72  350   7  .  1018.3  10.0    0.00      91  84 23:53
                                CLOUDS: BKN049 BKN070
SA 01  7  3 19   80  73  79  320   5  .  1018.8  10.0    0.00            00:53
                                CLOUDS: CLR
SA 01  7  3 20   78  73  85   .    0  .  1019.4  10.0    0.00            01:53
                                CLOUDS: BKN050
SA 01  7  3 21   79  74  85  180   4  .  1020.3  10.0    0.00            02:53
                                CLOUDS: BKN046 BKN060
SA 01  7  3 22   77  73  88   .    0  .  1019.9  10.0    0.00            03:53
                                CLOUDS: CLR
SA 01  7  3 23   76  74  94   .    0  .  1019.2  10.0    0.00            04:53
                                CLOUDS: CLR
SA 01  7  3 24   76  74  94   .    0  .  1019.4  10.0    0.00      83  75 05:53
                                CLOUDS: CLR
--------------------------------------------------------------------------------
```

2001 7 3 2.5 . 0.00 91 74 (24)

Station: MONROE MLU AP

SRCC Preliminary Surface Airways (SA) Observations

(Date/Time)							-- WIND ---					Accum	Rn	6 Hour		Obs
YY	MM	DD	HH	Tem	Td	RH	Dir	Spd	Gst	SLP	Vis	Prcp	Cd	TMx	TMn	Time
---	CST	---		F	F	%	deg	kt	kt	mb	mi	in		F	F	(UTC)
SA	01	7	4	1	74	73	97	160	4	.	1019.7	9.0	0.00			06:53
							CLOUDS: CLR									
SA	01	7	4	2	73	73	100	180	3	.	1019.8	10.0	0.00			07:53
							CLOUDS: CLR									
SA	01	7	4	3	74	73	97	.	0	.	1019.8	10.0	0.00			08:53
							CLOUDS: CLR									
SA	01	7	4	4	72	72	100	.	0	.	1019.5	6.0	0.00			09:53
							CLOUDS: CLR									
SA	01	7	4	5	72	72	100	.	0	.	1020.2	5.0	0.00			10:53
							CLOUDS: CLR									
SA	01	7	4	6	73	73	100	170	4	.	1020.7	5.0	0.00	76	72	11:53
							CLOUDS: BKN120									
SA	01	7	4	7	75	74	97	.	0	.	1021.1	7.0	0.00			12:53
							CLOUDS: CLR									
SA	01	7	4	8	77	74	91	.	3	.	1021.6	9.0	0.00			13:53
							CLOUDS: CLR									
SA	01	7	4	9	80	74	82	300	4	.	1021.8	9.0	0.00			14:53
							CLOUDS: CLR									
SA	01	7	4	10	84	73	70	.	4	.	1021.6	10.0	0.00			15:53
							CLOUDS: CLR									
SA	01	7	4	11	87	72	61	320	6	.	1021.5	10.0	0.00			16:53
							CLOUDS: CLR									
SA	01	7	4	12	88	71	57	230	5	.	1020.5	10.0	0.00	88	73	17:53
							CLOUDS: CLR									
SA	01	7	4	13	89	72	57	280	6	.	1019.7	10.0	0.00			18:53
							CLOUDS: CLR									
SA	01	7	4	14	90	74	59	.	5	.	1019.1	10.0	0.00			19:53
							CLOUDS: CLR									
SA	01	7	4	15	90	74	59	240	7	.	1017.9	10.0	0.00			20:53
							CLOUDS: SCT042									
SA	01	7	4	16	91	72	54	230	7	.	1018.0	10.0	.			21:53
							CLOUDS: SCT042									
SA	01	7	4	17	89	73	59	.	0	.	1017.9	10.0	.			22:53
							CLOUDS: SCT046									
MS	01	7	4	18												

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                                  CLOUDS:
SA 01  7  4 19   86  76  72  180   3  .  1017.7  10.0    0.00             00:53
                                  CLOUDS: CLR
SA 01  7  4 20   83  77  82  150   3  .  1018.4  10.0    0.00             01:53
                                  CLOUDS: CLR
SA 01  7  4 21   80  75  85  180   5  .  1018.5   8.0    0.00             02:53
                                  CLOUDS: CLR
SA 01  7  4 22   78  75  91    .   0  .  1018.4  10.0    0.00             03:53
                                  CLOUDS: CLR
SA 01  7  4 23   78  75  91  150   3  .  1018.5  10.0    0.00             04:53
                                  CLOUDS: CLR
SA 01  7  4 24   76  75  97  160   3  .  1018.5  10.0    0.00      90  76 05:53
                                  CLOUDS: CLR
-------------------------------------------------------------------------------
 2001  7  4                      3.3  .                  0.00 M    92  72  (23)
Station: MONROE MLU AP
SRCC Preliminary Surface Airways (SA) Observations

   (Date/Time)              -- WIND ---                Accum  Rn  6 Hour  Obs
   YY MM DD HH  Tem  Td  RH  Dir Spd Gst    SLP   Vis    Prcp  Cd TMx TMn  Time
   --- CST ---    F   F   %  deg  kt  kt     mb    mi      in       F   F (UTC)
-------------------------------------------------------------------------------
SA 01  7  5  1   75  74  97  200   5  .  1018.5   9.0    0.00             06:53
                                  CLOUDS: CLR
SA 01  7  5  2   75  74  97  200   5  .  1018.3   9.0    0.00             07:53
                                  CLOUDS: CLR
SA 01  7  5  3   74  73  97  200   4  .  1018.1   8.0    0.00             08:53
                                  CLOUDS: CLR
SA 01  7  5  4   74  73  97  190   3  .  1018.0  10.0    0.00             09:53
                                  CLOUDS: CLR
SA 01  7  5  5   73  72  97  190   4  .  1017.9   9.0    0.00             10:53
                                  CLOUDS: CLR
SA 01  7  5  6   73  73 100  190   3  .  1018.1   6.0    0.00      76  73 11:53
                                  CLOUDS: CLR
SA 01  7  5  7   78  75  91    .   0  .  1018.3   9.0    0.00             12:53
                                  CLOUDS: CLR
SA 01  7  5  8   84  75  74  270   7  .  1018.7  10.0    0.00             13:53
                                  CLOUDS: CLR
SA 01  7  5  9   88  76  68  310   6  .  1019.2  10.0    0.00             14:53
                                  CLOUDS: CLR
SA 01  7  5 10   89  76  66  290   6  .  1019.4  10.0    0.00             15:53
                                  CLOUDS: CLR
SA 01  7  5 11   91  77  64  310   4  .  1019.1  10.0    0.00             16:53
```

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                                    CLOUDS: CLR
SA 01  7  5 12   90  75  61  360   5  .  1018.8  10.0    0.00      93  73 17:53
                                    CLOUDS: FEW039 SCT050
SA 01  7  5 13   91  74  58  360   5  .  1017.7  10.0    0.00          18:53
                                    CLOUDS: FEW055
SA 01  7  5 14   89  73  59   .    0  .  1017.1  10.0    0.00 T        19:53
                                    CLOUDS: CLR
SA 01  7  5 15   90  77  66  260   6  .  1016.5  10.0    0.00 T        20:53
                                    CLOUDS: FEW041
SA 01  7  5 16   89  75  63  220   9  .  1016.5  10.0    0.00          21:53
                                    CLOUDS: FEW047
SA 01  7  5 17   87  75  68  250   8  .  1016.3  10.0    0.00          22:53
                                    CLOUDS: CLR
SA 01  7  5 18   85  74  70  220   3  .  1016.1  10.0    0.00      93  84 23:53
                                    CLOUDS: CLR
SA 01  7  5 19   82  74  77   .    0  .  1016.0  10.0    0.00          00:53
                                    CLOUDS: CLR
SA 01  7  5 20   81  76  85   .    0  .  1016.0  10.0    0.00          01:53
                                    CLOUDS: CLR
SA 01  7  5 21   80  77  91   .    0  .  1016.9  10.0    0.00          02:53
                                    CLOUDS: CLR
SA 01  7  5 22   78  74  88  170   6  .  1016.5  10.0    0.00          03:53
                                    CLOUDS: CLR
SA 01  7  5 23   77  74  91   .    0  .  1016.6  10.0    0.00          04:53
                                    CLOUDS: CLR
SA 01  7  5 24   76  74  94  170   4  .  1016.5  10.0    0.00      85  76 05:53
                                    CLOUDS: CLR
-------------------------------------------------------------------------------
 2001  7  5                     3.9  .                  0.00 T    93  73  (24)
Station: MONROE MLU AP
SRCC Preliminary Surface Airways (SA) Observations

   (Date/Time)              -- WIND ---                Accum  Rn  6 Hour  Obs
   YY MM DD HH  Tem  Td  RH  Dir Spd Gst    SLP   Vis    Prcp  Cd TMx TMn  Time
   --- CST ---    F   F   %  deg  kt  kt     mb    mi      in       F   F (UTC)
-------------------------------------------------------------------------------
SA 01  7  6  1   75  74  97  180   3  .  1016.5   9.0    0.00          06:53
                                    CLOUDS: CLR
SA 01  7  6  2   75  74  97   .    0  .  1016.6   8.0    0.00          07:53
                                    CLOUDS: CLR
SA 01  7  6  3   74  73  97   .    0  .  1016.4   8.0    0.00          08:53
                                    CLOUDS: CLR
SA 01  7  6  4   74  73  97   .    0  .  1016.6   7.0    0.00          09:53
```

```
                                        CLOUDS: CLR
SA 01  7  6  5   73  73 100   .    0  .  1017.0   6.0    0.00            10:53
                                        CLOUDS: CLR
SA 01  7  6  6   75  74  97  170   3  .  1017.8   6.0    0.00      77  73 11:53
                                        CLOUDS: CLR
SA 01  7  6  7   76  74  94   .    0  .  1018.1   8.0    0.00            12:53
                                        CLOUDS: CLR
SA 01  7  6  8   80  76  88   .    0  .  1018.3   9.0    0.00            13:53
                                        CLOUDS: CLR
SA 01  7  6  9   87  77  72   .    0  .  1018.4  10.0    0.00            14:53
                                        CLOUDS: CLR
SA 01  7  6 10   90  78  68  360   3  .  1018.5  10.0    0.00            15:53
                                        CLOUDS: CLR
SA 01  7  6 11   93  75  56   20   6  .  1018.4  10.0    0.00            16:53
                                        CLOUDS: CLR
SA 01  7  6 12   93  76  58   .    0  .  1018.0  10.0    0.00      94  75 17:53
                                        CLOUDS: CLR
SA 01  7  6 13   91  78  66  230   6  .  1017.5  10.0    0.01            18:53
                                        CLOUDS: CLR
SA 01  7  6 14   93  78  62  170   6  .  1016.9  10.0    0.00            19:53
                                        CLOUDS: SCT030
SA 01  7  6 15   94  74  52  110   3  .  1016.5  10.0    0.00            20:53
                                        CLOUDS: CLR
SA 01  7  6 16   93  75  56   .    0  .  1015.8  10.0    0.00            21:53
                                        CLOUDS: CLR
SA 01  7  6 17   89  77  68  210   9  .  1016.1  10.0    0.00            22:53
                                        CLOUDS: FEW050
SA 01  7  6 18   88  78  72  220   9  .  1016.4  10.0    0.00      95  88 23:53
                                        CLOUDS: CLR
SA 01  7  6 19   84  77  80  210   8  .  1017.0  10.0    0.00            00:53
                                        CLOUDS: CLR
SA 01  7  6 20   83  73  72  260   8  .  1017.4  10.0    0.00            01:53
                                        CLOUDS: CLR
SA 01  7  6 21   81  74  79  310   3  .  1017.7  10.0    0.00            02:53
                                        CLOUDS: CLR
SA 01  7  6 22   77  74  91   .    0  .  1017.2  10.0    0.00            03:53
                                        CLOUDS: CLR
SA 01  7  6 23   76  74  94  200   6  .  1017.8  10.0    0.00            04:53
                                        CLOUDS: CLR
SA 01  7  6 24   75  73  94   .    0  .  1018.0  10.0    0.00      88  75 05:53
                                        CLOUDS: CLR
-------------------------------------------------------------------------------
 2001  7  6                      3.0  .                 0.01      95  73  (24)
```

Station: MONROE MLU AP
SRCC Preliminary Surface Airways (SA) Observations

(Date/Time)							-- WIND ---					Accum	Rn	6 Hour		Obs
YY	MM	DD	HH	Tem	Td	RH	Dir	Spd	Gst	SLP	Vis	Prcp	Cd	TMx	TMn	Time
---	CST	---		F	F	%	deg	kt	kt	mb	mi	in		F	F	(UTC)
SA 01	7	7	1	75	73	94	.	0	.	1017.6	10.0	0.00				06:53
							CLOUDS: CLR									
SA 01	7	7	2	74	73	97	.	0	.	1017.7	9.0	0.00				07:53
							CLOUDS: CLR									
SA 01	7	7	3	74	73	97	.	0	.	1017.8	10.0	0.00				08:53
							CLOUDS: CLR									
SA 01	7	7	4	73	72	97	180	3	.	1018.1	7.0	0.00				09:53
							CLOUDS: CLR									
SA 01	7	7	5	72	72	100	180	4	.	1018.8	6.0	0.00				10:53
							CLOUDS: CLR									
SA 01	7	7	6	73	73	100	170	4	.	1019.4	6.0	0.00		76	72	11:53
							CLOUDS: CLR									
SA 01	7	7	7	76	74	94	210	3	.	1019.9	8.0	0.00				12:53
							CLOUDS: CLR									
SA 01	7	7	8	82	74	77	230	5	.	1019.8	10.0	0.00				13:53
							CLOUDS: CLR									
SA 01	7	7	9	84	75	74	210	6	.	1019.6	10.0	0.00				14:53
							CLOUDS: CLR									
SA 01	7	7	10	87	74	65	.	4	.	1019.0	10.0	0.00				15:53
							CLOUDS: CLR									
SA 01	7	7	11	89	73	59	.	0	.	1018.9	10.0	0.00				16:53
							CLOUDS: CLR									
SA 01	7	7	12	91	75	60	170	4	.	1018.9	10.0	0.00		91	73	17:53
							CLOUDS: CLR									
SA 01	7	7	13	92	74	56	170	5	.	1018.4	10.0	0.00				18:53
							CLOUDS: CLR									
SA 01	7	7	14	93	75	56	200	4	.	1018.3	10.0	0.00				19:53
							CLOUDS: CLR									
SA 01	7	7	15	93	76	58	.	3	.	1017.9	10.0	0.00				20:53
							CLOUDS: FEW042									
SA 01	7	7	16	93	75	56	220	4	.	1017.5	10.0	0.00				21:53
							CLOUDS: CLR									
SA 01	7	7	17	93	74	54	.	3	.	1016.8	10.0	0.00				22:53
							CLOUDS: CLR									
SA 01	7	7	18	91	76	62	180	4	.	1016.7	10.0	0.00		94	90	23:53
							CLOUDS: CLR									

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SA 01  7  7 19   86  77  75  180   5  .  1016.7  10.0    0.00            00:53
                                CLOUDS: CLR
SA 01  7  7 20   82  76  82  180   3  .  1016.7  10.0    0.00            01:53
                                CLOUDS: CLR
SA 01  7  7 21   81  77  88    .   0  .  1017.2  10.0    0.00            02:53
                                CLOUDS: CLR
SA 01  7  7 22   79  76  91    .   0  .  1017.9  10.0    0.00            03:53
                                CLOUDS: CLR
SA 01  7  7 23   79  76  91    .   0  .  1018.1  10.0    0.00            04:53
                                CLOUDS: CLR
SA 01  7  7 24   77  75  94    .   0  .  1018.1   9.0    0.00      91  77 05:53
                                CLOUDS: CLR
-------------------------------------------------------------------------------
 2001  7  7                      2.7  .                  0.00      94  72  (24)
Station: MONROE MLU AP
SRCC Preliminary Surface Airways (SA) Observations

   (Date/Time)              -- WIND ---                Accum  Rn  6 Hour  Obs
   YY MM DD HH  Tem  Td  RH  Dir Spd Gst    SLP   Vis    Prcp  Cd TMx TMn  Time
   --- CST ---    F   F   %  deg  kt  kt     mb    mi      in       F   F (UTC)
-------------------------------------------------------------------------------
SA 01  7  8  1   76  75  97    .   0  .  1017.9   7.0    0.00            06:53
                                CLOUDS: CLR
SA 01  7  8  2   76  75  97    .   0  .  1017.8   8.0    0.00            07:53
                                CLOUDS: CLR
SA 01  7  8  3   76  75  97  180   3  .  1018.1   6.0    0.00            08:53
                                CLOUDS: CLR
SA 01  7  8  4   76  75  97    .   0  .  1018.4   6.0    0.00            09:53
                                CLOUDS: CLR
SA 01  7  8  5   75  74  97  190   3  .  1018.8   6.0    0.00            10:53
                                CLOUDS: CLR
SA 01  7  8  6   76  75  97  210   3  .  1019.4   5.0    0.00      79  75 11:53
                                CLOUDS: CLR
SA 01  7  8  7   80  77  91  200   4  .  1019.4   6.0    0.00            12:53
                                CLOUDS: CLR
SA 01  7  8  8   83  76  80  220   3  .  1019.5  10.0    0.00            13:53
                                CLOUDS: CLR
SA 01  7  8  9   86  75  70  260   6  .  1019.6  10.0    0.00            14:53
                                CLOUDS: CLR
MS 01  7  8 10
                                CLOUDS:
SA 01  7  8 11   90  75  61  190   4  .  1019.0  10.0    0.00            16:53
                                CLOUDS: CLR
```

```
SA 01  7  8 12   91  74  58  150   5  .  1018.3  10.0    0.00      91  76 17:53
                                CLOUDS: CLR
SA 01  7  8 13   92  73  54  190   6  .  1017.8  10.0    0.00          18:53
                                CLOUDS: CLR
SA 01  7  8 14   91  72  54  220   5  .       .  10.0    0.00          19:53
                                CLOUDS: FEW048
SA 01  7  8 15   93  74  54  220   6  .  1016.9  10.0    0.00          20:53
                                CLOUDS: FEW048
SA 01  7  8 16   92  73  54  200   7  .  1016.2  10.0    0.00          21:53
                                CLOUDS: SCT050
SA 01  7  8 17   92  71  50  210   5  .  1015.7  10.0    0.00          22:53
                                CLOUDS: CLR
SA 01  7  8 18   90  73  57  210   5  .  1015.3  10.0    0.00      94  90 23:53
                                CLOUDS: CLR
SA 01  7  8 19   87  75  68  200   4  .  1015.4  10.0    0.00          00:53
                                CLOUDS: CLR
SA 01  7  8 20   84  75  74    .   0  .  1015.4  10.0    0.00          01:53
                                CLOUDS: CLR
SA 01  7  8 21   81  76  85    .   0  .  1015.7  10.0    0.00          02:53
                                CLOUDS: CLR
SA 01  7  8 22   77  75  94    .   0  .       .  10.0    0.00          03:53
                                CLOUDS: CLR
SA 01  7  8 23   77  75  94    .   0  .       .  10.0    0.00          04:53
                                CLOUDS: CLR
SA 01  7  8 24   76  75  97    .   0  .  1016.0  10.0    0.00      90  76 05:53
                                CLOUDS: CLR
-------------------------------------------------------------------------------
 2001  7  8                      3.0  .                  0.00      94  75  (23)
Station: MONROE MLU AP
SRCC Preliminary Surface Airways (SA) Observations

   (Date/Time)              -- WIND ---                Accum  Rn  6 Hour  Obs
   YY MM DD HH  Tem  Td  RH  Dir Spd Gst    SLP   Vis    Prcp  Cd TMx TMn  Time
   --- CST ---    F   F   %  deg  kt  kt     mb    mi      in       F   F (UTC)
-------------------------------------------------------------------------------
SA 01  7  9  1   75  74  97    .   0  .  1015.7  10.0    0.00          06:53
                                CLOUDS: CLR
SA 01  7  9  2   75  74  97    .   0  .  1015.2  10.0    0.00          07:53
                                CLOUDS: CLR
SA 01  7  9  3   76  75  97    .   0  .  1015.4  10.0    0.00          08:53
                                CLOUDS: CLR
SA 01  7  9  4   75  74  97  200   3  .  1015.6   9.0    0.00          09:53
                                CLOUDS: CLR
```

```
SA 01  7  9  5   75  74  97  190   3  .  1016.0   9.0    0.00            10:53
                                CLOUDS: CLR
SA 01  7  9  6   76  75  97  200   3  .  1016.5   8.0    0.00      77  74 11:53
                                CLOUDS: CLR
SA 01  7  9  7   81  76  85  260   8  .  1016.9  10.0    0.00            12:53
                                CLOUDS: CLR
SA 01  7  9  8   85  76  75  280   8  .  1017.2  10.0    0.00            13:53
                                CLOUDS: CLR
SA 01  7  9  9   87  76  70  270   6  .  1016.8  10.0    0.00            14:53
                                CLOUDS: CLR
SA 01  7  9 10   89  75  63  270   8  .  1016.5  10.0    0.00            15:53
                                CLOUDS: SCT034
SA 01  7  9 11   90  75  61  260   6  .  1016.3  10.0    0.00            16:53
                                CLOUDS: SCT037 BKN047
SA 01  7  9 12   92  74  56  290   5  .  1016.0  10.0    0.00      92  76 17:53
                                CLOUDS: FEW043 SCT060 SCT075
SA 01  7  9 13   92  74  56   .    4  .  1015.5  10.0    0.00            18:53
                                CLOUDS: SCT045 BKN055 BKN075
SA 01  7  9 14   94  75  54  290   4  .  1015.0  10.0    0.00            19:53
                                CLOUDS: FEW049 SCT075
SA 01  7  9 15   92  75  58  230   7  .  1014.0  10.0    0.00            20:53
                                CLOUDS: FEW050 SCT065
SA 01  7  9 16   91  74  58  210   3  .  1013.3  10.0    0.00            21:53
                                CLOUDS: SCT050 BKN060
SA 01  7  9 17   93  74  54  260   7  .  1012.8  10.0    0.00            22:53
                                CLOUDS: BKN055 BKN080
SA 01  7  9 18   91  73  56  250   9  .  1012.5  10.0    0.00      95  90 23:53
                                CLOUDS: FEW050
SA 01  7  9 19   87  75  68  210   6  .  1012.5  10.0    0.00            00:53
                                CLOUDS: FEW050
SA 01  7  9 20   84  76  77  210   4  .  1013.0  10.0    0.00            01:53
                                CLOUDS: FEW050
SA 01  7  9 21   83  77  82  200   4  .  1013.3  10.0    0.00            02:53
                                CLOUDS: CLR
SA 01  7  9 22   82  77  85   .    0  .  1013.4  10.0    0.00            03:53
                                CLOUDS: CLR
SA 01  7  9 23   81  77  88  180   3  .  1013.5  10.0    0.00            04:53
                                CLOUDS: CLR
SA 01  7  9 24   78  76  94   .    0  .  1013.3  10.0    0.00      92  78 05:53
                                CLOUDS: CLR
-------------------------------------------------------------------------------
 2001  7  9                     4.2  .                 0.00      95  74  (24)
Station: MONROE MLU AP
```

SRCC Preliminary Surface Airways (SA) Observations

(Date/Time)							-- WIND ---					Accum	Rn	6 Hour		Obs
YY	MM	DD	HH	Tem	Td	RH	Dir	Spd	Gst	SLP	Vis	Prcp	Cd	TMx	TMn	Time
---	CST	---		F	F	%	deg	kt	kt	mb	mi	in		F	F	(UTC)
SA	01	7	10	1	78	76	94	.	0	.	1012.7	10.0	0.00			06:53
							CLOUDS: CLR									
SA	01	7	10	2	78	76	94	220	3	.	1012.4	10.0	0.00			07:53
							CLOUDS: CLR									
SA	01	7	10	3	79	75	88	260	4	.	1012.4	10.0	0.00			08:53
							CLOUDS: CLR									
SA	01	7	10	4	80	74	82	270	5	.	1012.6	10.0	0.00			09:53
							CLOUDS: CLR									
SA	01	7	10	5	78	74	88	250	5	.	1012.6	10.0	0.00			10:53
							CLOUDS: CLR									
SA	01	7	10	6	79	74	85	240	4	.	1013.6	10.0	0.00	80	77	11:53
							CLOUDS: CLR									
SA	01	7	10	7	82	75	79	270	6	.	1014.0	10.0	0.00			12:53
							CLOUDS: CLR									
SA	01	7	10	8	85	76	75	280	6	.	1014.2	10.0	0.00			13:53
							CLOUDS: CLR									
SA	01	7	10	9	88	75	65	270	8	.	1014.6	10.0	0.00			14:53
							CLOUDS: CLR									
SA	01	7	10	10	90	76	64	310	8	.	1014.6	10.0	0.00			15:53
							CLOUDS: CLR									
SA	01	7	10	11	91	76	62	290	6	16	1014.1	10.0	0.00			16:53
							CLOUDS: FEW039									
SA	01	7	10	12	93	75	56	280	8	.	1013.9	10.0	0.00	93	79	17:53
							CLOUDS: SCT045									
SA	01	7	10	13	94	73	51	.	4	.	1013.3	10.0	0.00			18:53
							CLOUDS: SCT045									
MS	01	7	10	14												
							CLOUDS:									
SA	01	7	10	15	95	72	47	300	4	.	1011.4	10.0	0.00			20:53
							CLOUDS: FEW055									
SA	01	7	10	16	95	73	49	290	6	.	1011.0	10.0	0.00			21:53
							CLOUDS: CLR									
SA	01	7	10	17	94	73	51	290	4	.	1010.6	10.0	0.00			22:53
							CLOUDS: CLR									
SA	01	7	10	18	92	74	56	230	4	.	1010.7	10.0	0.00	96	91	23:53
							CLOUDS: SCT055									
SA	01	7	10	19	88	75	65	220	5	.	1010.9	10.0	0.00			00:53

```
                                  CLOUDS: CLR
SA 01  7 10 20   86  76  72  200   3  .  1011.1  10.0    0.00 T           01:53
                                  CLOUDS: CLR
SA 01  7 10 21   85  76  75  230   3  .  1011.3  10.0    0.00             02:53
                                  CLOUDS: CLR
SA 01  7 10 22   84  76  77  200   3  .  1011.7  10.0    0.00             03:53
                                  CLOUDS: CLR
SA 01  7 10 23   82  76  82  190   3  .  1011.8  10.0    0.00             04:53
                                  CLOUDS: CLR
SA 01  7 10 24   82  76  82    .   0  .  1011.6  10.0    0.00      92  81 05:53
                                  CLOUDS: CLR
-------------------------------------------------------------------------------
 2001  7 10                      4.4  16                0.00 T    96  77  (23)
Station: MONROE MLU AP
SRCC Preliminary Surface Airways (SA) Observations

   (Date/Time)               -- WIND ---                Accum  Rn  6 Hour  Obs
   YY MM DD HH  Tem  Td  RH  Dir Spd Gst    SLP   Vis    Prcp  Cd TMx TMn  Time
   --- CST ---    F   F   %  deg  kt  kt     mb    mi      in       F   F (UTC)
-------------------------------------------------------------------------------
SA 01  7 11  1   81  76  85    .   0  .  1011.5  10.0    0.00             06:53
                                  CLOUDS: CLR
SA 01  7 11  2   82  74  77  270   5  .  1011.5  10.0    0.00             07:53
                                  CLOUDS: CLR
SA 01  7 11  3   80  74  82  250   4  .  1011.8  10.0    0.00             08:53
                                  CLOUDS: CLR
SA 01  7 11  4   79  74  85  270   4  .  1011.7  10.0    0.00             09:53
                                  CLOUDS: CLR
SA 01  7 11  5   78  74  88  200   3  .  1011.7  10.0    0.00             10:53
                                  CLOUDS: CLR
SA 01  7 11  6   80  74  82  260   4  .  1012.1  10.0    0.00      82  77 11:53
                                  CLOUDS: CLR
SA 01  7 11  7   84  74  72  290   7  .  1012.6  10.0    0.00             12:53
                                  CLOUDS: CLR
SA 01  7 11  8   87  74  65  290  11  .  1012.7  10.0    0.00             13:53
                                  CLOUDS: CLR
SA 01  7 11  9   89  75  63  310   9  .  1012.7  10.0    0.00             14:53
                                  CLOUDS: CLR
SA 01  7 11 10   91  75  60  320   8  .  1013.0  10.0    0.00             15:53
                                  CLOUDS: CLR
SA 01  7 11 11   93  75  56  310   8  .  1012.8  10.0    0.00             16:53
                                  CLOUDS: CLR
SA 01  7 11 12   94  75  54  320   7  .  1012.4  10.0    0.00      95  80 17:53
```

```
                                    CLOUDS: CLR
SA 01  7 11 13   95  75  53  300   5  .  1011.8  10.0    0.00             18:53
                                    CLOUDS: CLR
SA 01  7 11 14   95  75  53  280   5  .  1010.8  10.0    0.00             19:53
                                    CLOUDS: CLR
SA 01  7 11 15   96  75  51  300   8  .  1010.4  10.0    0.00             20:53
                                    CLOUDS: FEW050
SA 01  7 11 16   96  76  53  280   6 16 1010.3  10.0    0.00             21:53
                                    CLOUDS: CLR
SA 01  7 11 17   95  75  53  310   5  .  1010.1  10.0    0.00             22:53
                                    CLOUDS: CLR
SA 01  7 11 18   94  77  58  280   6  .  1010.3  10.0    0.00       97  94 23:53
                                    CLOUDS: FEW050
SA 01  7 11 19   91  77  64  240   6  .  1010.5  10.0    0.00             00:53
                                    CLOUDS: CLR
SA 01  7 11 20   89  78  70  200   4  .  1011.4  10.0    0.00             01:53
                                    CLOUDS: SCT055 BKN070 OVC090
SA 01  7 11 21   89  78  70  260   8  .  1012.0  10.0    0.00             02:53
                                    CLOUDS: SCT050 BKN060 BKN075
SA 01  7 11 22   86  77  75  220   5  .  1012.7  10.0    0.00             03:53
                                    CLOUDS: SCT055
SA 01  7 11 23   83  78  85  180   3  .  1012.8  10.0    0.00             04:53
                                    CLOUDS: CLR
SA 01  7 11 24   84  77  80  270   5  .  1012.3  10.0    0.00       94  82 05:53
                                    CLOUDS: CLR
-------------------------------------------------------------------------------
 2001  7 11                      5.7  16                0.00       97  77  (24)
Station: MONROE MLU AP
SRCC Preliminary Surface Airways (SA) Observations

   (Date/Time)              -- WIND ---                Accum  Rn  6 Hour  Obs
   YY MM DD HH  Tem  Td  RH  Dir Spd Gst    SLP   Vis    Prcp  Cd TMx TMn  Time
   --- CST ---    F   F   %  deg  kt  kt     mb    mi      in       F   F (UTC)
-------------------------------------------------------------------------------
SA 01  7 12  1   83  77  82  280   3  .  1011.9  10.0    0.00             06:53
                                    CLOUDS: CLR
SA 01  7 12  2   83  76  80  270   6  .  1012.0  10.0    0.00             07:53
                                    CLOUDS: SCT050
SA 01  7 12  3   80  76  88  200   3  .  1012.0  10.0    0.00             08:53
                                    CLOUDS: FEW070
SA 01  7 12  4   78  76  94  180   5  .  1012.0  10.0    0.00             09:53
                                    CLOUDS: CLR
SA 01  7 12  5   78  76  94  170   3  .  1012.8  10.0    0.00             10:53
```

```
                                    CLOUDS: CLR
SA 01  7 12  6   79  77  94  210   3  .  1013.7  10.0    0.00      84  78 11:53
                                    CLOUDS: OVC055
SA 01  7 12  7   83  76  80  280   5  .  1014.2  10.0    0.00          12:53
                                    CLOUDS: BKN050 OVC070
SA 01  7 12  8   85  76  75  290   5  .  1014.9  10.0    0.00          13:53
                                    CLOUDS: BKN055 BKN070
SA 01  7 12  9   89  76  66  290   6  .  1014.8  10.0    0.00          14:53
                                    CLOUDS: FEW060
SA 01  7 12 10   91  76  62  310   7  .  1014.6  10.0    0.00          15:53
                                    CLOUDS: CLR
SA 01  7 12 11   93  77  60  270   7  .  1014.7  10.0    0.00          16:53
                                    CLOUDS: FEW055
SA 01  7 12 12   94  75  54  320   4  .  1014.4  10.0    0.00      95  80 17:53
                                    CLOUDS: FEW065
SA 01  7 12 13   95  76  54   .    0  .  1013.5  10.0    0.00          18:53
                                    CLOUDS: FEW055
SA 01  7 12 14   95  78  58   .    5  .  1012.2  10.0    0.00          19:53
                                    CLOUDS: CLR
SA 01  7 12 15   96  76  53  290   5  .  1012.2  10.0    0.00          20:53
                                    CLOUDS: SCT050
SA 01  7 12 16   95  77  56  250   6  .  1011.9  10.0    0.00          21:53
                                    CLOUDS: FEW055
SA 01  7 12 17   96  77  54  290   8  .  1011.7  10.0    0.00          22:53
                                    CLOUDS: FEW060
SA 01  7 12 18   93  79  64  200   8  .  1012.3  10.0    0.00      97  93 23:53
                                    CLOUDS: CLR
SA 01  7 12 19   91  78  66  170   6  .  1012.7  10.0    0.00          00:53
                                    CLOUDS: CLR
SA 01  7 12 20   81  74  79  170   7  .  1013.5  10.0    0.00          01:53
                                    CLOUDS: CLR
SA 01  7 12 21   80  74  82  170   6  .  1014.4  10.0    0.00          02:53
                                    CLOUDS: CLR
SA 01  7 12 22   79  73  82  170   9  .      .   10.0    0.00          03:53
                                    CLOUDS: CLR
SA 01  7 12 23   76  72  87  190   7  .  1014.2  10.0    0.00          04:53
                                    CLOUDS: CLR
SA 01  7 12 24   75  72  90  200   5  .  1013.5  10.0    0.00      93  75 05:53
                                    CLOUDS: CLR
-------------------------------------------------------------------------------
 2001  7 12                     5.4  .                  0.00      97  75  (24)
Station: MONROE MLU AP
SRCC Preliminary Surface Airways (SA) Observations
```

(Date/Time)							-- WIND ---				Accum	Rn	6 Hour		Obs
YY	MM	DD	HH	Tem	Td	RH	Dir	Spd	Gst	SLP	Vis	Prcp	Cd	TMx	TMn	Time
---	CST	---		F	F	%	deg	kt	kt	mb	mi	in		F	F	(UTC)
SA	01	7	13	1	76	74	94	230	10	.	1013.1	10.0	0.00			06:53
							CLOUDS: CLR									
SA	01	7	13	2	78	74	88	230	8	.	1013.2	10.0	0.00			07:53
							CLOUDS: CLR									
SA	01	7	13	3	78	75	91	240	9	.	1013.4	10.0	0.00			08:53
							CLOUDS: CLR									
SA	01	7	13	4	78	76	94	.	0	.	1014.6	10.0	0.00			09:53
							CLOUDS: CLR									
SA	01	7	13	5	77	76	97	130	3	.	1015.4	10.0	0.00			10:53
							CLOUDS: FEW014									
SA	01	7	13	6	77	76	97	100	3	.	1015.8	10.0	0.00		79	75 11:53
							CLOUDS: OVC012									
SA	01	7	13	7	78	75	91	160	4	.	1016.6	10.0	0.00			12:53
							CLOUDS: BKN016 BKN021									
SA	01	7	13	8	79	75	88	.	0	.	1017.6	10.0	0.00	T		13:53
							CLOUDS: BKN016 BKN027									
SA	01	7	13	9	80	76	88	190	4	.	1017.4	10.0	0.00			14:53
							CLOUDS: FEW015 SCT050									
SA	01	7	13	10	83	75	77	280	11	15	1016.8	10.0	0.00			15:53
							CLOUDS: FEW020 SCT025 SCT031									
SA	01	7	13	11	81	73	77	340	10	.	1016.7	10.0	0.00			16:53
							CLOUDS: FEW017									
SA	01	7	13	12	82	72	72	10	8	.	1016.0	10.0	0.00		83	77 17:53
							CLOUDS: CLR									
SA	01	7	13	13	82	72	72	.	3	.	1015.6	10.0	0.00			18:53
							CLOUDS: FEW110									
SA	01	7	13	14	82	73	74	50	4	.	1015.2	10.0	0.00			19:53
							CLOUDS: CLR									
SA	01	7	13	15	82	73	74	40	7	.	1015.3	10.0	0.00			20:53
							CLOUDS: CLR									
SA	01	7	13	16	82	73	74	70	5	.	.	10.0	0.00			21:53
							CLOUDS: BKN045 BKN050									
SA	01	7	13	17	83	74	74	70	5	.	1015.3	10.0	0.00			22:53
							CLOUDS: FEW100									
SA	01	7	13	18	82	74	77	70	3	.	1015.4	10.0	0.00		84	82 23:53
							CLOUDS: OVC110									
SA	01	7	13	19	80	75	85	70	3	.	1015.5	10.0	0.00			00:53
							CLOUDS: FEW110									

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SA 01  7 13 20   78  75  91   .    0  .  1015.5  10.0    0.00             01:53
                              CLOUDS: BKN100
MS 01  7 13 21
                              CLOUDS:
SA 01  7 13 22   77  73  88   50   6  .  1016.4  10.0    0.00             03:53
                              CLOUDS: OVC100
SA 01  7 13 23   77  70  79   50   5  .  1016.3  10.0    0.00             04:53
                              CLOUDS: OVC095
SA 01  7 13 24   75  70  85   40   3  .  1016.2  10.0    0.00      83  75 05:53
                              CLOUDS: BKN075 OVC100
-------------------------------------------------------------------------------
 2001  7 13                      5.0  15                0.00 T    84  75  (23)
Station: MONROE MLU AP
SRCC Preliminary Surface Airways (SA) Observations

   (Date/Time)               -- WIND ---                Accum  Rn  6 Hour  Obs
   YY MM DD HH  Tem  Td  RH  Dir Spd Gst    SLP   Vis    Prcp  Cd TMx TMn  Time
   --- CST ---    F   F   %  deg  kt  kt     mb    mi      in       F   F (UTC)
-------------------------------------------------------------------------------
SA 01  7 14  1   75  70  85   40   5  .  1015.7  10.0    0.00             06:53
                              CLOUDS: FEW070 OVC090
SA 01  7 14  2   75  70  85   20   4  .  1015.5  10.0    0.00             07:53
                              CLOUDS: FEW080 BKN100
SA 01  7 14  3   74  70  87   20   3  .  1015.3  10.0    0.00             08:53
                              CLOUDS: BKN080 OVC100
SA 01  7 14  4   75  69  82   20   5  .  1015.2  10.0    0.00             09:53
                              CLOUDS: SCT055 BKN075 OVC100
SA 01  7 14  5   75  69  82   .    0  .  1015.1  10.0    0.00             10:53
                              CLOUDS: OVC050
SA 01  7 14  6   74  69  84   40   3  .  1015.7  10.0    0.00      76  74 11:53
                              CLOUDS: OVC044
SA 01  7 14  7   75  68  79   60   5  .  1016.1  10.0    0.00             12:53
                              CLOUDS: OVC046
SA 01  7 14  8   76  68  76   50   6  .  1016.7  10.0    0.00             13:53
                              CLOUDS: OVC046
SA 01  7 14  9   78  69  74   80   4  .  1017.1  10.0    0.00             14:53
                              CLOUDS: OVC048
SA 01  7 14 10   80  68  67   .    3  .  1016.8  10.0    0.00             15:53
                              CLOUDS: OVC050
SA 01  7 14 11   84  67  57   60   6  .  1016.5  10.0    0.00             16:53
                              CLOUDS: OVC055
SA 01  7 14 12   86  66  51   60   5  .  1015.9  10.0    0.00      86  74 17:53
                              CLOUDS: CLR
```

```
SA 01  7 14 13   87  66  50   .    4  .  1015.2  10.0    0.00            18:53
                                CLOUDS: FEW049
SA 01  7 14 14   88  66  48   50   8  .  1014.6  10.0    0.00            19:53
                                CLOUDS: CLR
SA 01  7 14 15   88  65  47   30  10  .  1014.3  10.0    0.00            20:53
                                CLOUDS: CLR
SA 01  7 14 16   87  64  46   .    6  .  1013.9  10.0    0.00            21:53
                                CLOUDS: CLR
SA 01  7 14 17   86  64  48   60   9  .  1013.6  10.0    0.00            22:53
                                CLOUDS: CLR
SA 01  7 14 18   83  62  49   40   9  .  1013.4  10.0    0.00      89  83 23:53
                                CLOUDS: CLR
SA 01  7 14 19   81  62  53   30   8  .  1013.8  10.0    0.00            00:53
                                CLOUDS: CLR
SA 01  7 14 20   75  63  66   50   5  .  1014.1  10.0    0.00            01:53
                                CLOUDS: CLR
SA 01  7 14 21   74  63  69   60   4  .  1014.2  10.0    0.00            02:53
                                CLOUDS: CLR
SA 01  7 14 22   73  62  69   60   4  .  1014.0  10.0    0.00            03:53
                                CLOUDS: CLR
SA 01  7 14 23   70  62  76   .    0  .  1014.0  10.0    0.00            04:53
                                CLOUDS: CLR
SA 01  7 14 24   67  62  84   60   3  .  1013.5  10.0    0.00      83  67 05:53
                                CLOUDS: CLR
-------------------------------------------------------------------------------
 2001  7 14                     5.0  .                  0.00      89  67  (24)
Station: MONROE MLU AP
SRCC Preliminary Surface Airways (SA) Observations

   (Date/Time)              -- WIND ---                Accum  Rn  6 Hour  Obs
   YY MM DD HH  Tem  Td  RH  Dir Spd Gst    SLP   Vis    Prcp  Cd TMx TMn  Time
   --- CST ---    F   F   %  deg  kt  kt     mb    mi      in       F   F (UTC)
-------------------------------------------------------------------------------
SA 01  7 15  1   69  62  79   40   3  .  1013.3  10.0    0.00            06:53
                                CLOUDS: CLR
SA 01  7 15  2   66  63  90   .    0  .  1013.6  10.0    0.00            07:53
                                CLOUDS: CLR
SA 01  7 15  3   68  63  84   70   4  .  1013.7  10.0    0.00            08:53
                                CLOUDS: CLR
SA 01  7 15  4   68  63  84   60   3  .  1014.0  10.0    0.00            09:53
                                CLOUDS: CLR
SA 01  7 15  5   66  64  93   .    0  .  1014.4  10.0    0.00            10:53
                                CLOUDS: CLR
```

```
      SA 01  7 15  6   69  64  84   50   5  .  1014.8  10.0    0.00      69  66 11:53
                                    CLOUDS: CLR
      SA 01  7 15  7   73  65  76   50   3  .  1014.9  10.0    0.00           12:53
                                    CLOUDS: CLR
      SA 01  7 15  8   78  63  60   60   3  .  1015.1  10.0    0.00           13:53
                                    CLOUDS: CLR
      SA 01  7 15  9   81  63  54  100   5  .  1014.9  10.0    0.00           14:53
                                    CLOUDS: CLR
      SA 01  7 15 10   84  62  48    .    4  .  1014.9  10.0    0.00           15:53
                                    CLOUDS: CLR
      SA 01  7 15 11   85  59  41    .    3  .  1014.5  10.0    0.00           16:53
                                    CLOUDS: CLR
      SA 01  7 15 12   86  59  40    .    3  .  1014.1  10.0    0.00      87  69 17:53
                                    CLOUDS: CLR
      SA 01  7 15 13   87  60  40    .    0  .  1014.0  10.0    0.00           18:53
                                    CLOUDS: CLR
      SA 01  7 15 14   87  62  43    .    0  .  1013.3  10.0    0.00           19:53
                                    CLOUDS: CLR
      SA 01  7 15 15   89  63  42   70   7  .  1012.9  10.0    0.00           20:53
                                    CLOUDS: CLR
      SA 01  7 15 16   89  63  42    .    0  .  1012.8  10.0    0.00           21:53
                                    CLOUDS: CLR
      SA 01  7 15 17   89  64  44   80   7  .  1012.5  10.0    0.00           22:53
                                    CLOUDS: CLR
      SA 01  7 15 18   88  63  43   70   4  .  1012.6  10.0    0.00      90  85 23:53
                                    CLOUDS: CLR
      SA 01  7 15 19   82  68  63    .    0  .  1012.7  10.0    0.00           00:53
                                    CLOUDS: CLR
      SA 01  7 15 20   77  67  71    .    0  .  1012.9  10.0    0.00           01:53
                                    CLOUDS: CLR
      SA 01  7 15 21   75  66  74    .    0  .  1013.2  10.0    0.00           02:53
                                    CLOUDS: CLR
      SA 01  7 15 22   73  67  82    .    0  .  1013.8  10.0    0.00           03:53
                                    CLOUDS: CLR
      SA 01  7 15 23   71  67  87    .    0  .  1013.9   9.0    0.00           04:53
                                    CLOUDS: CLR
      SA 01  7 15 24   70  67  90    .    0  .  1014.1   8.0    0.00      88  68 05:53
                                    CLOUDS: CLR
      ------------------------------------------------------------------------------
       2001  7 15                      2.3  .                  0.00      90  66  (24)
      Station: MONROE MLU AP
      SRCC Preliminary Surface Airways (SA) Observations
```

(Date/Time)							-- WIND ---					Accum	Rn	6 Hour		Obs
YY	MM	DD	HH	Tem	Td	RH	Dir	Spd	Gst	SLP	Vis	Prcp	Cd	TMx	TMn	Time
---	CST	---		F	F	%	deg	kt	kt	mb	mi	in		F	F	(UTC)
SA	01	7	16	1	69	67	93	.	0	.	1014.1	7.0	0.00			06:53
							CLOUDS: CLR									
SA	01	7	16	2	68	66	93	.	0	.	1014.0	7.0	0.00			07:53
							CLOUDS: CLR									
SA	01	7	16	3	67	65	93	.	0	.	1014.0	6.0	0.00			08:53
							CLOUDS: CLR									
SA	01	7	16	4	66	65	97	.	0	.	1014.6	6.0	0.00			09:53
							CLOUDS: CLR									
SA	01	7	16	5	68	66	93	.	0	.	1015.2	8.0	0.00			10:53
							CLOUDS: CLR									
SA	01	7	16	6	68	66	93	.	0	.	1015.6	4.0	0.00		70	65 11:53
							CLOUDS: CLR									
SA	01	7	16	7	74	68	82	.	0	.	1015.9	10.0	0.00			12:53
							CLOUDS: CLR									
SA	01	7	16	8	79	70	74	190	4	.	1016.3	10.0	0.00			13:53
							CLOUDS: CLR									
SA	01	7	16	9	84	72	67	200	6	.	1016.2	10.0	0.00			14:53
							CLOUDS: CLR									
SA	01	7	16	10	86	70	59	.	6	.	1016.5	10.0	0.00			15:53
							CLOUDS: CLR									
SA	01	7	16	11	88	66	48	160	7	.	1016.2	10.0	0.00			16:53
							CLOUDS: CLR									
SA	01	7	16	12	90	68	48	.	5	.	1016.3	10.0	0.00		90	68 17:53
							CLOUDS: CLR									
SA	01	7	16	13	91	66	44	240	8	14	1016.0	10.0	0.00			18:53
							CLOUDS: CLR									
SA	01	7	16	14	91	68	47	230	5	.	1015.4	10.0	0.00			19:53
							CLOUDS: CLR									
SA	01	7	16	15	92	69	47	.	3	.	1015.0	10.0	0.00			20:53
							CLOUDS: CLR									
SA	01	7	16	16	92	70	49	170	7	.	1014.4	10.0	0.00			21:53
							CLOUDS: FEW060									
SA	01	7	16	17	90	71	54	180	6	.	1014.0	10.0	0.00			22:53
							CLOUDS: CLR									
SA	01	7	16	18	89	72	57	170	4	.	1014.0	10.0	0.00		93	89 23:53
							CLOUDS: CLR									
SA	01	7	16	19	87	73	63	140	3	.	1014.6	10.0	0.00			00:53
							CLOUDS: CLR									
SA	01	7	16	20	83	74	74	170	3	.	1014.7	9.0	0.00			01:53

```
                                  CLOUDS: FEW050
SA 01  7 16 21   83  75  77  160   3  .  1015.2  10.0    0.00             02:53
                                  CLOUDS: BKN050 OVC065
SA 01  7 16 22   81  74  79   .    0  .  1015.6  10.0    0.00             03:53
                                  CLOUDS: FEW060
SA 01  7 16 23   79  74  85  170   7  .  1015.5  10.0    0.00             04:53
                                  CLOUDS: CLR
SA 01  7 16 24   78  74  88  170   4  .  1015.6  10.0    0.00      89  78 05:53
                                  CLOUDS: CLR
--------------------------------------------------------------------------------
 2001  7 16                     3.4  14                 0.00      93  65  (24)
Station: MONROE MLU AP
SRCC Preliminary Surface Airways (SA) Observations

   (Date/Time)               -- WIND ---                Accum  Rn  6 Hour  Obs
   YY MM DD HH  Tem  Td  RH  Dir Spd Gst    SLP   Vis    Prcp  Cd TMx TMn  Time
   --- CST ---    F   F   %  deg  kt  kt     mb    mi      in       F   F (UTC)
--------------------------------------------------------------------------------
SA 01  7 17  1   77  73  88  170   5  .  1015.2  10.0    0.00             06:53
                                  CLOUDS: CLR
SA 01  7 17  2   77  73  88  170   5  .  1015.3  10.0    0.00             07:53
                                  CLOUDS: CLR
SA 01  7 17  3   75  73  94  180   3  .  1015.7   9.0    0.00             08:53
                                  CLOUDS: CLR
SA 01  7 17  4   75  73  94  160   3  .  1016.5   8.0    0.00             09:53
                                  CLOUDS: CLR
SA 01  7 17  5   75  73  94   .    0  .  1017.1   7.0    0.00             10:53
                                  CLOUDS: CLR
SA 01  7 17  6   76  74  94   .    0  .  1017.7   5.0    0.00      78  74 11:53
                                  CLOUDS: CLR
SA 01  7 17  7   78  75  91  170   4  .  1018.3   7.0    0.00             12:53
                                  CLOUDS: CLR
SA 01  7 17  8   81  75  82  160   6  .  1018.9  10.0    0.00             13:53
                                  CLOUDS: CLR
SA 01  7 17  9   84  75  74  160   7  .  1018.8  10.0    0.00             14:53
                                  CLOUDS: CLR
SA 01  7 17 10   86  75  70   .    3  .  1018.9  10.0    0.00             15:53
                                  CLOUDS: SCT027
SA 01  7 17 11   86  72  63   .    0  .  1019.1  10.0    0.00             16:53
                                  CLOUDS: CLR
SA 01  7 17 12   87  74  65  150   6  .  1018.7  10.0    0.00      87  76 17:53
                                  CLOUDS: CLR
SA 01  7 17 13   88  73  61   .    3  .  1018.0  10.0    0.00             18:53
```

```
                                    CLOUDS: CLR
SA 01  7 17 14   91  72  54   .    4  .  1017.6  10.0    0.00             19:53
                                    CLOUDS: CLR
SA 01  7 17 15   90  72  56   .    0  .  1017.1  10.0    0.00             20:53
                                    CLOUDS: SCT050
SA 01  7 17 16   90  70  52   .    0  .  1016.8  10.0    0.00             21:53
                                    CLOUDS: CLR
SA 01  7 17 17   90  71  54   .    0  .  1016.5  10.0    0.00             22:53
                                    CLOUDS: CLR
SA 01  7 17 18   89  72  57  190   4  .  1016.1  10.0    0.00      92  87 23:53
                                    CLOUDS: CLR
SA 01  7 17 19   85  76  75   .    0  .  1016.1  10.0    0.00             00:53
                                    CLOUDS: CLR
SA 01  7 17 20   84  72  67  130   4  .       .  10.0    0.00             01:53
                                    CLOUDS: CLR
SA 01  7 17 21   81  73  77   .    0  .  1016.7  10.0    0.00             02:53
                                    CLOUDS: CLR
SA 01  7 17 22   80  72  77   .    0  .  1016.9  10.0    0.00             03:53
                                    CLOUDS: CLR
SA 01  7 17 23   77  72  85   .    0  .  1016.8  10.0    0.00             04:53
                                    CLOUDS: CLR
SA 01  7 17 24   76  72  87   .    0  .  1016.6   9.0    0.00      89  75 05:53
                                    CLOUDS: CLR
-------------------------------------------------------------------------------
 2001  7 17                      2.4  .                 0.00      92  74  (24)
Station: MONROE MLU AP
SRCC Preliminary Surface Airways (SA) Observations

   (Date/Time)               -- WIND ---                Accum  Rn  6 Hour  Obs
   YY MM DD HH  Tem  Td  RH  Dir Spd Gst    SLP   Vis    Prcp  Cd TMx TMn  Time
   --- CST ---    F   F   %  deg  kt  kt     mb    mi      in       F   F (UTC)
-------------------------------------------------------------------------------
SA 01  7 18  1   74  71  90   .    0  .  1016.7   8.0    0.00             06:53
                                    CLOUDS: CLR
MS 01  7 18  2
                                    CLOUDS:
SA 01  7 18  3   73  71  93   .    0  .  1015.8   7.0    0.00             08:53
                                    CLOUDS: CLR
SA 01  7 18  4   73  71  93   .    0  .  1016.2   6.0    0.00             09:53
                                    CLOUDS: SCT060
SA 01  7 18  5   71  70  97   .    0  .  1016.6   6.0    0.00             10:53
                                    CLOUDS: CLR
SA 01  7 18  6   72  71  97   .    0  .  1016.8   3.0    0.00      75  70 11:53
```

```
                                    CLOUDS: CLR
SA 01  7 18  7   76  73  90   .    0  .  1017.5   6.0    0.00             12:53
                                    CLOUDS: CLR
SA 01  7 18  8   81  74  79   .    0  .  1017.7   6.0    0.00             13:53
                                    CLOUDS: CLR
SA 01  7 18  9   86  76  72  230   4  .  1017.7   9.0    0.00             14:53
                                    CLOUDS: CLR
SA 01  7 18 10   86  72  63  210   5  .  1017.5  10.0    0.00             15:53
                                    CLOUDS: BKN037 BKN046
SA 01  7 18 11   89  72  57   .    0  .  1017.4  10.0    0.00             16:53
                                    CLOUDS: CLR
SA 01  7 18 12   89  73  59   .    3  .  1016.9  10.0    0.00      91  72 17:53
                                    CLOUDS: SCT042
SA 01  7 18 13   92  74  56   .    3  .  1016.5  10.0    0.00             18:53
                                    CLOUDS: FEW046 SCT060
SA 01  7 18 14   92  72  52   .    3  .  1016.2  10.0    0.00             19:53
                                    CLOUDS: CLR
SA 01  7 18 15   94  70  46   .    3  .  1015.3  10.0    0.00             20:53
                                    CLOUDS: CLR
SA 01  7 18 16   93  70  47  200   6  .  1014.8  10.0    0.00             21:53
                                    CLOUDS: CLR
SA 01  7 18 17   93  69  46   .    0  .  1014.7  10.0    0.00             22:53
                                    CLOUDS: CLR
SA 01  7 18 18   91  70  50   .    0  .  1014.6  10.0    0.00      95  90 23:53
                                    CLOUDS: CLR
SA 01  7 18 19   87  72  61   .    0  .  1014.8   9.0    0.00             00:53
                                    CLOUDS: CLR
SA 01  7 18 20   82  75  79   .    0  .  1015.5   8.0    0.00             01:53
                                    CLOUDS: CLR
SA 01  7 18 21   82  72  72   .    3  .  1016.1  10.0    0.00             02:53
                                    CLOUDS: CLR
SA 01  7 18 22   79  72  79   .    0  .  1016.3   9.0    0.00             03:53
                                    CLOUDS: CLR
SA 01  7 18 23   76  72  87   .    0  .  1016.6   8.0    0.00             04:53
                                    CLOUDS: CLR
SA 01  7 18 24   75  72  90   .    0  .  1016.6   7.0    0.00      91  74 05:53
                                    CLOUDS: CLR
-------------------------------------------------------------------------------
 2001  7 18                      1.3  .                 0.00      95  70  (23)
Station: MONROE MLU AP
SRCC Preliminary Surface Airways (SA) Observations

   (Date/Time)              -- WIND ---               Accum  Rn  6 Hour  Obs
```

YY	MM	DD	HH CST	Tem F	Td F	RH %	Dir deg	Spd kt	Gst kt	SLP mb	Vis mi	Prcp in	Cd	TMx F	TMn F	Time (UTC)
SA	01	7	19 1	74	72	94	.	0	.	1016.4	6.0	0.00				06:53
							CLOUDS: CLR									
SA	01	7	19 2	72	71	97	200	4	.	1015.3	6.0	0.00				07:53
							CLOUDS: CLR									
SA	01	7	19 3	73	71	93	.	0	.	1015.4	7.0	0.00				08:53
							CLOUDS: CLR									
SA	01	7	19 4	73	71	93	.	0	.	1016.1	6.0	0.00				09:53
							CLOUDS: CLR									
SA	01	7	19 5	74	71	90	.	0	.	1016.6	6.0	0.00				10:53
							CLOUDS: CLR									
SA	01	7	19 6	73	71	93	30	3	.	1017.1	6.0	0.00		75	72	11:53
							CLOUDS: CLR									
SA	01	7	19 7	78	73	85	.	0	.	1017.4	5.0	0.00				12:53
							CLOUDS: CLR									
SA	01	7	19 8	82	74	77	.	0	.	1017.7	6.0	0.00				13:53
							CLOUDS: CLR									
SA	01	7	19 9	86	76	72	.	3	.	1017.5	7.0	0.00				14:53
							CLOUDS: CLR									
SA	01	7	19 10	89	74	61	.	0	.	1017.4	8.0	0.00				15:53
							CLOUDS: CLR									
SA	01	7	19 11	92	73	54	.	0	.	1017.2	9.0	0.00				16:53
							CLOUDS: CLR									
SA	01	7	19 12	92	74	56	110	5	.	1016.9	9.0	0.00		93	73	17:53
							CLOUDS: CLR									
SA	01	7	19 13	93	74	54	140	7	.	1016.5	10.0	0.00				18:53
							CLOUDS: CLR									
SA	01	7	19 14	96	73	48	360	4	.	1016.0	10.0	0.00				19:53
							CLOUDS: SCT055									
SA	01	7	19 15	94	72	49	.	3	.	1015.4	10.0	0.00				20:53
							CLOUDS: FEW095									
SA	01	7	19 16	95	73	49	70	7	.	.	10.0	0.00				21:53
							CLOUDS: SCT085									
SA	01	7	19 17	92	74	56	90	5	.	1014.7	10.0	0.00				22:53
							CLOUDS: BKN065 BKN110									
SA	01	7	19 18	88	75	65	180	5	.	1014.5	10.0	0.00		96	88	23:53
							CLOUDS: FEW050									
SA	01	7	19 19	88	75	65	.	0	.	1014.9	10.0	0.00				00:53
							CLOUDS: BKN055 BKN070									
SA	01	7	19 20	87	75	68	.	0	.	1015.8	10.0	0.00				01:53
							CLOUDS: FEW060 OVC090									

```
SA 01  7 19 21   85  75  72  130   3  .  1016.0  10.0    0.00             02:53
                                CLOUDS: BKN075
SA 01  7 19 22   80  74  82  160   3  .  1016.1  10.0    0.00             03:53
                                CLOUDS: CLR
SA 01  7 19 23   80  73  79   .    0  .  1016.0  10.0    0.00             04:53
                                CLOUDS: CLR
SA 01  7 19 24   77  73  88   .    0  .  1015.6  10.0    0.00      89  77 05:53
                                CLOUDS: CLR
-------------------------------------------------------------------------------
 2001  7 19                      2.2  .                  0.00      96  72  (24)
Station: MONROE MLU AP
SRCC Preliminary Surface Airways (SA) Observations

   (Date/Time)               -- WIND ---                 Accum  Rn  6 Hour  Obs
   YY MM DD HH  Tem  Td  RH  Dir Spd Gst    SLP   Vis    Prcp  Cd TMx TMn  Time
   --- CST ---    F   F   %  deg  kt  kt     mb    mi      in       F   F (UTC)
-------------------------------------------------------------------------------
SA 01  7 20  1   77  73  88   .    0  .  1015.4  10.0    0.00             06:53
                                CLOUDS: CLR
SA 01  7 20  2   76  73  90  190   4  .  1015.5   5.0    0.00             07:53
                                CLOUDS: CLR
SA 01  7 20  3   76  73  90   .    0  .  1015.7   4.0    0.00             08:53
                                CLOUDS: CLR
SA 01  7 20  4   74  73  97   .    0  .  1016.0   4.0    0.00             09:53
                                CLOUDS: CLR
SA 01  7 20  5   72  72 100   .    0  .  1016.4   4.0    0.00             10:53
                                CLOUDS: CLR
SA 01  7 20  6   74  72  94   .    0  .  1017.1   3.0    0.00      78  72 11:53
                                CLOUDS: CLR
SA 01  7 20  7   78  75  91   .    0  .  1017.3   4.0    0.00             12:53
                                CLOUDS: CLR
SA 01  7 20  8   84  76  77   .    0  .  1017.6   6.0    0.00             13:53
                                CLOUDS: CLR
SA 01  7 20  9   87  76  70  300   5  .  1017.6  10.0    0.00             14:53
                                CLOUDS: CLR
SA 01  7 20 10   90  75  61  350   5  .  1017.3  10.0    0.00             15:53
                                CLOUDS: CLR
SA 01  7 20 11   89  73  59  300   4  .  1017.3  10.0    0.00             16:53
                                CLOUDS: FEW047 BKN060
SA 01  7 20 12   93  72  51  290   5  .  1016.7  10.0    0.00      93  73 17:53
                                CLOUDS: FEW050
SA 01  7 20 13   92  73  54   .    0  .  1015.9  10.0    0.00             18:53
                                CLOUDS: CLR
```

```
SA 01  7 20 14   94  72  49   .    0  .  1015.2  10.0    0.00             19:53
                                CLOUDS: CLR
SA 01  7 20 15   94  73  51  290   4  .  1014.4  10.0    0.00             20:53
                                CLOUDS: CLR
SA 01  7 20 16   93  74  54  190   4  .  1014.0  10.0    0.00             21:53
                                CLOUDS: CLR
SA 01  7 20 17   93  72  51   .    0  .  1013.6  10.0    0.00             22:53
                                CLOUDS: CLR
SA 01  7 20 18   92  74  56   .    0  .  1013.2  10.0    0.00       96  91 23:53
                                CLOUDS: CLR
SA 01  7 20 19   88  78  72   .    0  .  1013.4   9.0    0.00             00:53
                                CLOUDS: CLR
SA 01  7 20 20   83  75  77   .    0  .  1013.5  10.0    0.00             01:53
                                CLOUDS: CLR
SA 01  7 20 21   81  75  82   .    0  .       .   9.0    0.00             02:53
                                CLOUDS: CLR
SA 01  7 20 22   80  75  85   .    0  .  1014.5   9.0    0.00             03:53
                                CLOUDS: CLR
SA 01  7 20 23   79  75  88   .    0  .  1014.5   8.0    0.00             04:53
                                CLOUDS: CLR
SA 01  7 20 24   79  75  88  170   3  .  1014.3   8.0    0.00       92  79 05:53
                                CLOUDS: CLR
-------------------------------------------------------------------------------
 2001  7 20                      1.4  .                  0.00       96  72  (24)
Station: MONROE MLU AP
SRCC Preliminary Surface Airways (SA) Observations

   (Date/Time)               -- WIND ---                Accum  Rn  6 Hour  Obs
   YY MM DD HH  Tem  Td  RH  Dir Spd Gst    SLP   Vis    Prcp  Cd TMx TMn  Time
   --- CST ---    F   F   %  deg  kt  kt     mb    mi      in       F   F (UTC)
-------------------------------------------------------------------------------
SA 01  7 21  1   79  75  88   .    0  .  1014.0   7.0    0.00             06:53
                                CLOUDS: CLR
SA 01  7 21  2   78  75  91  190   3  .  1013.8   7.0    0.00             07:53
                                CLOUDS: CLR
SA 01  7 21  3   77  75  94  190   3  .  1013.4   6.0    0.00             08:53
                                CLOUDS: CLR
SA 01  7 21  4   78  75  91  270   4  .  1013.3   8.0    0.00             09:53
                                CLOUDS: CLR
SA 01  7 21  5   79  75  88  270   5  .  1013.6  10.0    0.00             10:53
                                CLOUDS: CLR
SA 01  7 21  6   79  75  88   .    0  .  1014.2  10.0    0.00       79  77 11:53
                                CLOUDS: CLR
```

```
      SA 01  7 21  7   82  76  82  310   5  .  1014.6  10.0    0.00             12:53
                                    CLOUDS: CLR
      SA 01  7 21  8   85  76  75  320   7  .  1014.5  10.0    0.00             13:53
                                    CLOUDS: CLR
      SA 01  7 21  9   88  76  68  330   6  .  1014.1  10.0    0.00             14:53
                                    CLOUDS: CLR
      SA 01  7 21 10   92  76  60  350   4  .  1014.1  10.0    0.00             15:53
                                    CLOUDS: CLR
      SA 01  7 21 11   94  74  52   .    5  .  1013.9  10.0    0.00             16:53
                                    CLOUDS: CLR
      SA 01  7 21 12   93  74  54  260   4  .  1013.2  10.0    0.00      95  79 17:53
                                    CLOUDS: FEW048
      SA 01  7 21 13   95  72  47   .    4  .  1012.7  10.0    0.00             18:53
                                    CLOUDS: FEW060
      SA 01  7 21 14   95  73  49   20   6  .  1012.1  10.0    0.00             19:53
                                    CLOUDS: SCT060
      SA 01  7 21 15   96  71  44   .    0  .  1011.1  10.0    0.00             20:53
                                    CLOUDS: FEW060
      SA 01  7 21 16   96  73  48   .    3  .  1010.4  10.0    0.00             21:53
                                    CLOUDS: CLR
      SA 01  7 21 17   97  72  45   .    0  .      .   10.0    0.00             22:53
                                    CLOUDS: CLR
      SA 01  7 21 18   95  74  51   80   3  .  1010.3  10.0    0.00      98  93 23:53
                                    CLOUDS: CLR
      SA 01  7 21 19   90  76  64   80   4  .  1011.2  10.0    0.00             00:53
                                    CLOUDS: CLR
      SA 01  7 21 20   86  70  59  110   7  .  1010.9  10.0    0.00             01:53
                                    CLOUDS: FEW070
      SA 01  7 21 21   85  74  70  130   4  .  1011.4  10.0    0.00             02:53
                                    CLOUDS: CLR
      MS 01  7 21 22
                                    CLOUDS:
      SA 01  7 21 23   83  74  74  160   4  .  1011.6  10.0    0.00             04:53
                                    CLOUDS: FEW065
      SA 01  7 21 24   81  75  82   .    0  .  1011.8  10.0    0.00      95  81 05:53
                                    CLOUDS: CLR
      ------------------------------------------------------------------------------
       2001  7 21                      3.5  .                 0.00      98  77  (23)
      Station: MONROE MLU AP
      SRCC Preliminary Surface Airways (SA) Observations

         (Date/Time)               -- WIND ---                Accum  Rn  6 Hour  Obs
         YY MM DD HH  Tem  Td  RH  Dir Spd Gst    SLP   Vis    Prcp  Cd TMx TMn  Time
```

--- CST ---	F	F	%	deg	kt	kt	mb	mi	in	F	F (UTC)
SA 01 7 22 1	80	75	85	.	0	.	1011.7	10.0	0.00		06:53
				CLOUDS: CLR							
SA 01 7 22 2	77	75	94	.	0	.	1011.4	10.0	0.00		07:53
				CLOUDS: CLR							
SA 01 7 22 3	77	75	94	.	0	.	1011.2	9.0	0.00		08:53
				CLOUDS: CLR							
SA 01 7 22 4	76	75	97	.	0	.	1011.1	8.0	0.00		09:53
				CLOUDS: CLR							
SA 01 7 22 5	75	74	97	.	0	.	1011.6	7.0	0.00		10:53
				CLOUDS: CLR							
SA 01 7 22 6	76	75	97	.	0	.	1011.9	5.0	0.00	81	75 11:53
				CLOUDS: CLR							
SA 01 7 22 7	79	76	91	.	0	.	1012.3	7.0	0.00		12:53
				CLOUDS: CLR							
SA 01 7 22 8	81	75	82	.	0	.	1012.8	10.0	0.00		13:53
				CLOUDS: CLR							
SA 01 7 22 9	85	76	75	.	4	.	1012.6	10.0	0.00		14:53
				CLOUDS: FEW070							
SA 01 7 22 10	88	76	68	30	5	.	1012.3	10.0	0.00		15:53
				CLOUDS: CLR							
SA 01 7 22 11	91	77	64	.	4	.	1012.6	10.0	0.00		16:53
				CLOUDS: CLR							
SA 01 7 22 12	92	77	62	.	4	.	1012.2	10.0	0.00	93	76 17:53
				CLOUDS: CLR							
SA 01 7 22 13	94	77	58	90	9	.	1011.8	10.0	0.00		18:53
				CLOUDS: FEW040							
SA 01 7 22 14	94	74	52	90	10	.	1011.3	10.0	0.00		19:53
				CLOUDS: FEW046 SCT065							
SA 01 7 22 15	93	74	54	80	6	.	1011.0	10.0	0.00		20:53
				CLOUDS: FEW049 SCT080							
SA 01 7 22 16	93	73	52	70	5	.	.	10.0	0.00		21:53
				CLOUDS: FEW050							
SA 01 7 22 17	93	74	54	100	7	.	1010.4	10.0	0.00		22:53
				CLOUDS: CLR							
SA 01 7 22 18	92	74	56	80	4	.	1010.7	10.0	0.00	96	92 23:53
				CLOUDS: CLR							
SA 01 7 22 19	88	73	61	70	4	.	1010.7	10.0	0.00		00:53
				CLOUDS: CLR							
SA 01 7 22 20	86	73	65	70	3	.	1010.8	10.0	0.00		01:53
				CLOUDS: CLR							
SA 01 7 22 21	83	73	72	70	3	.	1011.1	10.0	0.00		02:53

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                                  CLOUDS: CLR
SA 01  7 22 22   82  73  74   90   3  .      .   10.0    0.00            03:53
                                  CLOUDS: CLR
SA 01  7 22 23   79  74  85   .    0  .  1011.8   9.0    0.00            04:53
                                  CLOUDS: CLR
SA 01  7 22 24   80  74  82  100   3  .  1011.8   9.0    0.00      92  79 05:53
                                  CLOUDS: CLR
--------------------------------------------------------------------------------
 2001  7 22                      3.1  .                  0.00      96  75  (24)
Station: MONROE MLU AP
SRCC Preliminary Surface Airways (SA) Observations

   (Date/Time)               -- WIND ---                Accum  Rn  6 Hour  Obs
   YY MM DD HH  Tem  Td  RH  Dir Spd Gst    SLP   Vis    Prcp  Cd TMx TMn  Time
   --- CST ---    F   F   %  deg  kt  kt     mb    mi      in       F   F (UTC)
--------------------------------------------------------------------------------
SA 01  7 23  1   79  74  85   .    3  .  1011.6   9.0    0.00            06:53
                                  CLOUDS: FEW049
SA 01  7 23  2   78  74  88   .    0  .  1011.7   8.0    0.00            07:53
                                  CLOUDS: BKN041 BKN049
SA 01  7 23  3   78  74  88  130   4  .  1011.7   7.0    0.00            08:53
                                  CLOUDS: SCT043
SA 01  7 23  4   76  74  94   30   4  .  1012.1   7.0    0.00            09:53
                                  CLOUDS: FEW045
SA 01  7 23  5   75  74  97   .    0  .  1012.2   5.0    0.00            10:53
                                  CLOUDS: CLR
SA 01  7 23  6   76  74  94   .    0  .  1012.7   4.0    0.00      80  74 11:53
                                  CLOUDS: CLR
SA 01  7 23  7   79  75  88   .    0  .  1013.0   7.0    0.00            12:53
                                  CLOUDS: CLR
SA 01  7 23  8   82  76  82   .    0  .  1013.4   8.0    0.00            13:53
                                  CLOUDS: CLR
SA 01  7 23  9   86  76  72   .    0  .  1013.3  10.0    0.00            14:53
                                  CLOUDS: CLR
SA 01  7 23 10   89  75  63   .    0  .  1013.3  10.0    0.00            15:53
                                  CLOUDS: CLR
SA 01  7 23 11   91  74  58   .    3  .  1013.3  10.0    0.00            16:53
                                  CLOUDS: FEW040
SA 01  7 23 12   94  73  51   30   7  .  1012.7  10.0    0.00      94  76 17:53
                                  CLOUDS: FEW043
SA 01  7 23 13   94  72  49   30   6  .  1012.2  10.0    0.00            18:53
                                  CLOUDS: SCT050
SA 01  7 23 14   96  72  46   .    5  .  1011.6  10.0    0.00            19:53
```

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                                        CLOUDS: CLR
SA 01  7 23 15   94  71  47  150   3  .  1011.1  10.0    0.00             20:53
                                        CLOUDS: SCT050
SA 01  7 23 16   95  72  47  130   5  .  1010.7  10.0    0.00             21:53
                                        CLOUDS: FEW060
SA 01  7 23 17   94  71  47    .   3  .  1010.3  10.0    0.00             22:53
                                        CLOUDS: CLR
SA 01  7 23 18   92  72  52   80   4  .  1010.5  10.0    0.00      96  92 23:53
                                        CLOUDS: CLR
SA 01  7 23 19   88  71  57   80   3  .  1010.7  10.0    0.00             00:53
                                        CLOUDS: CLR
SA 01  7 23 20   85  71  63    .   0  .  1011.1  10.0    0.00             01:53
                                        CLOUDS: CLR
SA 01  7 23 21   80  72  77    .   0  .  1011.7  10.0    0.00             02:53
                                        CLOUDS: CLR
SA 01  7 23 22   80  72  77    .   0  .  1012.0  10.0    0.00             03:53
                                        CLOUDS: CLR
SA 01  7 23 23   79  72  79    .   0  .  1011.9  10.0    0.00             04:53
                                        CLOUDS: CLR
SA 01  7 23 24   76  72  87    .   0  .  1011.8   8.0    0.00      92  76 05:53
                                        CLOUDS: CLR
--------------------------------------------------------------------------------
 2001  7 23                       2.1  .                 0.00      96  74  (24)
Station: MONROE MLU AP
SRCC Preliminary Surface Airways (SA) Observations

   (Date/Time)               -- WIND ---                Accum  Rn  6 Hour  Obs
   YY MM DD HH  Tem  Td  RH  Dir Spd Gst    SLP   Vis    Prcp  Cd TMx TMn  Time
   --- CST ---    F   F   %  deg  kt  kt     mb    mi      in       F   F (UTC)
--------------------------------------------------------------------------------
SA 01  7 24  1   74  72  94    .   0  .  1012.0   7.0    0.00             06:53
                                        CLOUDS: CLR
SA 01  7 24  2   74  72  94    .   0  .  1012.0   6.0    0.00             07:53
                                        CLOUDS: CLR
SA 01  7 24  3   73  72  97    .   0  .  1012.1   6.0    0.00             08:53
                                        CLOUDS: CLR
SA 01  7 24  4   74  72  94    .   0  .  1012.2   6.0    0.00             09:53
                                        CLOUDS: CLR
SA 01  7 24  5   73  71  93    .   0  .  1012.7   6.0    0.00             10:53
                                        CLOUDS: BKN055
SA 01  7 24  6   74  72  94   80   3  .  1013.3   4.0    0.00      76  72 11:53
                                        CLOUDS: CLR
SA 01  7 24  7   77  74  91    .   0  .  1013.7   4.0    0.00             12:53
```

```
                                    CLOUDS: CLR
SA 01  7 24  8   83  74  74    .    0  .  1013.9   7.0    0.00             13:53
                                    CLOUDS: CLR
SA 01  7 24  9   87  73  63    .    0  .  1013.9   8.0    0.00             14:53
                                    CLOUDS: CLR
SA 01  7 24 10   88  70  55    .    0  .  1013.5  10.0    0.00             15:53
                                    CLOUDS: CLR
SA 01  7 24 11   92  71  50    .    3  .  1013.1  10.0    0.00             16:53
                                    CLOUDS: CLR
SA 01  7 24 12   91  71  52    .    3  .  1012.8  10.0    0.00      94  74 17:53
                                    CLOUDS: CLR
SA 01  7 24 13   93  70  47    .    6  .  1012.1  10.0    0.00             18:53
                                    CLOUDS: CLR
SA 01  7 24 14   93  69  46    .    3  .  1011.8  10.0    0.00             19:53
                                    CLOUDS: FEW060
SA 01  7 24 15   95  71  46   50    6  .  1011.3  10.0    0.00             20:53
                                    CLOUDS: FEW060
SA 01  7 24 16   93  70  47    .    5  .      .   10.0    0.00             21:53
                                    CLOUDS: CLR
SA 01  7 24 17   93  71  49    .    4  .  1010.9  10.0    0.00             22:53
                                    CLOUDS: SCT060
SA 01  7 24 18   89  73  59  180    5  .  1010.8  10.0    0.00      96  89 23:53
                                    CLOUDS: CLR
SA 01  7 24 19   85  73  67  160    3  .  1010.7  10.0    0.00             00:53
                                    CLOUDS: CLR
SA 01  7 24 20   82  75  79    .    0  .  1011.0  10.0    0.00             01:53
                                    CLOUDS: CLR
SA 01  7 24 21   78  73  85    .    0  .  1011.5  10.0    0.00             02:53
                                    CLOUDS: CLR
SA 01  7 24 22   78  73  85    .    0  .  1011.9   9.0    0.00             03:53
                                    CLOUDS: CLR
SA 01  7 24 23   77  73  88    .    0  .  1011.9   9.0    0.00             04:53
                                    CLOUDS: CLR
SA 01  7 24 24   75  73  94   90    3  .  1012.2   7.0    0.00      88  75 05:53
                                    CLOUDS: CLR
--------------------------------------------------------------------------------
 2001  7 24                      1.8  .                 0.00      96  72  (24)
Station: MONROE MLU AP
SRCC Preliminary Surface Airways (SA) Observations

   (Date/Time)               -- WIND ---                Accum  Rn  6 Hour  Obs
   YY MM DD HH  Tem  Td  RH  Dir Spd Gst    SLP   Vis    Prcp  Cd TMx TMn  Time
   --- CST ---    F   F   %  deg  kt  kt     mb    mi      in       F   F (UTC)
```

```
-------------------------------------------------------------------------------
SA 01  7 25  1   77  72  85   .    0  .  1012.0   8.0    0.00             06:53
                                CLOUDS: CLR
SA 01  7 25  2   75  73  94   .    0  .      .    7.0    0.00             07:53
                                CLOUDS: CLR
SA 01  7 25  3   77  73  88   .    0  .  1011.9   7.0    0.00             08:53
                                CLOUDS: CLR
SA 01  7 25  4   74  72  94   .    0  .  1012.2   6.0    0.00             09:53
                                CLOUDS: CLR
SA 01  7 25  5   75  73  94   .    0  .  1012.7   6.0    0.00             10:53
                                CLOUDS: CLR
SA 01  7 25  6   74  72  94   .    0  .  1013.0   4.0    0.00      79  73 11:53
                                CLOUDS: CLR
SA 01  7 25  7   80  75  85   .    0  .  1013.2   6.0    0.00             12:53
                                CLOUDS: CLR
SA 01  7 25  8   85  76  75  300   5  .  1013.3  10.0    0.00             13:53
                                CLOUDS: CLR
SA 01  7 25  9   88  76  68   .    0  .  1013.3  10.0    0.00             14:53
                                CLOUDS: CLR
SA 01  7 25 10   90  73  57  270   3  .      .   10.0    0.00             15:53
                                CLOUDS: CLR
SA 01  7 25 11   91  72  54   .    0  .  1013.0  10.0    0.00             16:53
                                CLOUDS: SCT085
SA 01  7 25 12   94  71  47   .    0  .  1012.7  10.0    0.00      94  74 17:53
                                CLOUDS: SCT060
SA 01  7 25 13   95  71  46   50   5  .  1012.3   9.0    0.00             18:53
                                CLOUDS: FEW055
SA 01  7 25 14   96  69  42   .    4  .  1011.7  10.0    0.00             19:53
                                CLOUDS: FEW065
SA 01  7 25 15   96  71  44  140   7  .  1011.4  10.0    0.00             20:53
                                CLOUDS: CLR
SA 01  7 25 16   94  72  49   70   8  .  1011.3  10.0    0.00             21:53
                                CLOUDS: CLR
SA 01  7 25 17   93  71  49   70   3  .  1011.8  10.0    0.00             22:53
                                CLOUDS: FEW080
SA 01  7 25 18   86  73  65  220   6  .  1012.1  10.0    0.00      97  86 23:53
                                CLOUDS: CLR
SA 01  7 25 19   85  72  65  300   3  .  1012.3  10.0    0.00             00:53
                                CLOUDS: SCT120
SA 01  7 25 20   81  74  79  200   4  .  1012.4  10.0    0.00             01:53
                                CLOUDS: SCT110
SA 01  7 25 21   79  73  82  130   7  .  1012.7  10.0    0.00             02:53
                                CLOUDS: FEW060
```

```
SA 01  7 25 22   78  73  85   .    0  .  1012.8  10.0    0.00            03:53
                              CLOUDS: FEW060
SA 01  7 25 23   76  73  90   .    0  .  1012.7  10.0    0.00            04:53
                              CLOUDS: CLR
SA 01  7 25 24   75  72  90   .    0  .  1012.9  10.0    0.00      86  75 05:53
                              CLOUDS: CLR
--------------------------------------------------------------------------------
 2001  7 25                     2.3  .                  0.00      97  73  (24)
Station: MONROE MLU AP
SRCC Preliminary Surface Airways (SA) Observations

   (Date/Time)              -- WIND ---                Accum  Rn  6 Hour  Obs
   YY MM DD HH  Tem  Td  RH  Dir Spd Gst    SLP   Vis    Prcp  Cd TMx TMn  Time
   --- CST ---    F   F   %  deg  kt  kt     mb    mi      in       F   F (UTC)
--------------------------------------------------------------------------------
SA 01  7 26  1   75  72  90   .    0  .  1012.7  10.0    0.00            06:53
                              CLOUDS: CLR
SA 01  7 26  2   75  72  90  170   3  .  1012.9  10.0    0.00            07:53
                              CLOUDS: CLR
SA 01  7 26  3   74  72  94  170   3  .  1013.1  10.0    0.00            08:53
                              CLOUDS: CLR
SA 01  7 26  4   74  72  94  180   3  .  1013.5   9.0    0.00            09:53
                              CLOUDS: CLR
SA 01  7 26  5   74  72  94   .    0  .  1013.6   7.0    0.00            10:53
                              CLOUDS: CLR
SA 01  7 26  6   75  73  94   .    0  .  1013.9   6.0    0.00      76  73 11:53
                              CLOUDS: BKN085
SA 01  7 26  7   78  75  91  250   4  .  1014.3   5.0    0.00            12:53
                              CLOUDS: BKN100
SA 01  7 26  8   80  75  85  220   6  .  1014.9   9.0    0.00            13:53
                              CLOUDS: SCT100
SA 01  7 26  9   83  76  80  270   4  .  1015.4  10.0    0.00            14:53
                              CLOUDS: CLR
SA 01  7 26 10   86  76  72   .    3  .  1015.5  10.0    0.00            15:53
                              CLOUDS: FEW045
SA 01  7 26 11   88  75  65   .    3  .  1015.4  10.0    0.00            16:53
                              CLOUDS: FEW030
SA 01  7 26 12   87  77  72  170   6  .  1014.5  10.0    0.00      90  75 17:53
                              CLOUDS: BKN032
SA 01  7 26 13   84  78  82  180  11  .  1014.4  10.0    0.00            18:53
                              CLOUDS: SCT050 BKN065
SA 01  7 26 14   79  76  91  260   3  .  1015.2   4.0    0.00            19:53
                              CLOUDS: BKN007 BKN017 OVC060
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SA 01  7 26 15   81  79  94  180   5  .      .    8.0    0.00             20:53
                                CLOUDS: CLR
SA 01  7 26 16   82  78  88  170   3  .  1014.5  10.0     .              21:53
                                CLOUDS: SCT085
SA 01  7 26 17   82  79  91  160   5  .  1014.3  10.0     .              22:53
                                CLOUDS: FEW080
SA 01  7 26 18   82  78  88    .   0  .  1014.3  10.0    1.08  3A  87  78 23:53
                                CLOUDS: FEW100
SA 01  7 26 19   81  79  94    .   0  .  1014.5  10.0    0.00             00:53
                                CLOUDS: CLR
SA 01  7 26 20   80  79  97    .   0  .  1014.9   9.0    0.00             01:53
                                CLOUDS: CLR
SA 01  7 26 21   79  78  97  180   3  .  1015.2   9.0    0.01             02:53
                                CLOUDS: SCT110
SA 01  7 26 22   78  76  94    .   0  .  1015.2   8.0    0.00             03:53
                                CLOUDS: CLR
SA 01  7 26 23   77  75  94  160   5  .  1015.5   8.0    0.00             04:53
                                CLOUDS: CLR
MS 01  7 26 24
                                CLOUDS:
--------------------------------------------------------------------------------
 2001  7 26                      3.0  .                  1.09      90  73  (23)
Station: MONROE MLU AP
SRCC Preliminary Surface Airways (SA) Observations

   (Date/Time)               -- WIND ---                Accum  Rn  6 Hour  Obs
   YY MM DD HH  Tem  Td  RH  Dir Spd Gst    SLP   Vis    Prcp  Cd TMx TMn  Time
   --- CST ---    F   F   %  deg  kt  kt     mb    mi      in       F   F (UTC)
--------------------------------------------------------------------------------
MS 01  7 27  1
                                CLOUDS:
MS 01  7 27  2
                                CLOUDS:
SA 01  7 27  3   75  74  97    .   0  .  1016.6   6.0    0.00             08:53
                                CLOUDS: BKN050 OVC080
SA 01  7 27  4   76  75  97    .   0  .  1017.0   6.0    0.00             09:53
                                CLOUDS: SCT018 OVC050
SA 01  7 27  5   76  75  97  160   8  .  1017.5   3.0    0.12             10:53
                                CLOUDS: BKN011 BKN016 OVC023
SA 01  7 27  6   75  74  97  180   4  .  1017.8   2.0    1.26      76  74 11:53
                                CLOUDS: BKN008 BKN017 OVC030
SA 01  7 27  7   75  74  97  200   8  .  1018.0   1.8    0.61             12:53
                                CLOUDS: BKN015 BKN031 OVC045
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     SA 01  7 27  8   76  74  94  300   3  .  1018.7  10.0    0.01            13:53
                                  CLOUDS: SCT007 BKN043 OVC075
     SA 01  7 27  9   75  74  97  320   3  .  1018.5   3.0    0.30            14:53
                                  CLOUDS: SCT007 BKN028 OVC035
     SA 01  7 27 10   78  75  91   .    0  .  1018.4  10.0    0.05            15:53
                                  CLOUDS: CLR
     MS 01  7 27 11
                                  CLOUDS:
     MS 01  7 27 12
                                  CLOUDS:
     MS 01  7 27 13
                                  CLOUDS:
     MS 01  7 27 14
                                  CLOUDS:
     MS 01  7 27 15
                                  CLOUDS:
     MS 01  7 27 16
                                  CLOUDS:
     MS 01  7 27 17
                                  CLOUDS:
     MS 01  7 27 18
                                  CLOUDS:
     MS 01  7 27 19
                                  CLOUDS:
     MS 01  7 27 20
                                  CLOUDS:
     MS 01  7 27 21
                                  CLOUDS:
     MS 01  7 27 22
                                  CLOUDS:
     MS 01  7 27 23
                                  CLOUDS:
     MS 01  7 27 24
                                  CLOUDS:
     ------------------------------------------------------------------------
      2001  7 27                     3.3  .                 2.35 M    76  74  ( 8)
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METEOROLOGICAL DATA FOR SHREVEPORT, LA AND JACKSON, MS

METEOROLOGICAL DATA FOR 1996

SHREVEPORT, LA (SHV)

LATITUDE: 32° 26' 49" N LONGITUDE: 93° 49' 27" W ELEVATION (FT): GRND: 254 BARO: 268 TIME ZONE: CENTRAL (UTC+ 6) WBAN: 13957

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	58.2	64.0	65.5	76.7	86.5	87.6	91.4	88.6	84.5	77.1	65.6	61.5	75.6
	HIGHEST DAILY MAXIMUM	76	87	84	87	94	93	99	95	91	87	79	78	99
	DATE OF OCCURRENCE	30	21	6	19	28	17+	3	2	10+	27	5	12+	JUL 3
	MEAN DAILY MINIMUM	34.3	40.8	41.3	50.8	67.5	68.9	73.1	71.3	63.7	54.8	45.8	41.5	54.5
	LOWEST DAILY MINIMUM	12	14	22	34	46	58	68	65	48	39	32	16	12
	DATE OF OCCURRENCE	8	4	9	7	1	9	11+	15	29+	19	28+	20	JAN 8
	AVERAGE DRY BULB	46.2	52.4	53.4	63.8	77.0	78.3	82.3	80.0	74.1	66.0	55.7	51.5	65.1
	MEAN WET BULB	41.4	45.7	46.4	56.3	70.5	72.5	75.5	74.1	68.2	61.0	52.0	47.8	59.3
	MEAN DEW POINT	35.1	37.6	37.7	49.8	67.2	69.9	73.1	71.9	65.2	57.5	48.6	43.5	54.8
	NUMBER OF DAYS WITH:													
	MAXIMUM ≥ 90°	0	0	0	0	10	12	22	17	6	0	0	0	67
	MAXIMUM ≤ 32°	0	3	0	0	0	0	0	0	0	0	0	0	3
	MINIMUM ≤ 32°	15	9	8	0	0	0	0	0	0	0	2	10	44
	MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0
H/C	HEATING DEGREE DAYS	576	387	372	115	2	0	0	0	10	59	277	427	2225
	COOLING DEGREE DAYS	3	31	23	85	384	403	543	471	291	96	6	16	2352
RH	MEAN (PERCENT)	70	62	59	65	74	79	78	80	78	78	79	76	73
	HOUR 00 LST	74	70	68	75	81	87	88	90	90	89	84	84	82
	HOUR 06 LST	83	76	77	83	91	95	92	96	94	93	89	88	88
	HOUR 12 LST	59	53	47	52	62	66	65	65	61	60	69	66	60
	HOUR 18 LST	62	52	47	52	60	65	67	69	68	72	78	73	64
S	PERCENT POSSIBLE SUNSHINE			82	90	17	14	87						
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY ≤ 1/4 MI)	5	1	1	1	0	1	1	0	1	2	4	6	23
	THUNDERSTORMS	2	1	5	7	3	12	12	8	7	3	3	2	65
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)	3		3		3	2							
	SATELLITE (> 12,000 FT.)			2			2							
	MIDNIGHT-MIDNIGHT: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)			3		3	2							
	SATELLITE (> 12,000 FT.)			2										
	NUMBER OF DAYS WITH:													
	CLEAR	6	5	10		6	7							
	PARTLY CLOUDY		2	3		7	8							
	CLOUDY	3	2	7		3	4							
PR	MEAN STATION PRESS. (IN.)	29.79	29.81	29.79	29.71	29.68	29.70	29.72	29.76	29.66	29.76	29.84	29.82	29.75
	MEAN SEA-LEVEL PRESS. (IN.)	30.05	30.07	30.05	29.96	29.93	29.95	29.97	30.01	29.91	30.02		30.08	
WINDS	RESULTANT SPEED (MPH)	2.0	1.1	1.2	3.0	7.6	2.1	0.7	0.4	1.5	2.2	1.6	1.0	1.0
	RES. DIR. (TENS OF DEGS.)	24	22	28	18	17	17	19	05	03	09	05	04	17
	MEAN SPEED (MPH)	9.9	9.8	10.1	10.0	9.5	5.5	6.2	4.7	5.4	6.4	8.1	8.1	7.8
	PREVAIL.DIR.(TENS OF DEGS.)	16	17	17	17	18	18	17	13	01	16	15	18	17
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)	37	30	38	32	22	29	32	29	32	36	38	28	38
	DIR. (TENS OF DEGS.)	26	32	31	31	19	19	32	06	32	02	30	22	30
	DATE OF OCCURRENCE	18	16	18	14	27+	24+	24+	01	19	21	07	10	NOV 07
	MAXIMUM 5-SECOND WIND:													
	SPEED (MPH)	44	39	53	39	30	34	49	37	41	46	51	34	53
	DIR. (TENS OF DEGS.)	26	33	31	32	17	15	31	07	33	02	29	18	31
	DATE OF OCCURRENCE	18	16	18	15+	27	23	23	01	19	21	07	21+	MAR 18
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	2.12	0.64	2.33	3.86	0.93	6.50	5.70	5.78	7.17	1.66	5.87	2.24	44.80
	GREATEST 24-HOUR (IN.)	1.04	0.39	1.04	0.94	0.82	3.63	2.50	2.79	2.74	1.52	2.09	0.92	3.63
	DATE OF OCCURRENCE	23	1	24	5	11	1	24	9	26-27	21-22	24-25	15-16	JUN 1
	NUMBER OF DAYS WITH:													
	PRECIPITATION ≥ 0.01	3	4	10	8	2	12	9	11	10	6	10	8	93
	PRECIPITATION ≥ 0.10	2	2	4	6	2	10	7	9	6	2	6	5	61
	PRECIPITATION ≥ 1.00	1	0	1	0	0	1	2	2	4	0	3	0	14
SNOWFALL	SNOW,ICE PELLETS,HAIL:													
	TOTAL (IN.)	T	0.4			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	
	GREATEST 24-HOUR (IN.)	T	0.3			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	
	DATE OF OCCURRENCE	18+	2										16	
	MAXIMUM SNOW DEPTH (IN.)	0	0			0	0	0	0	0	0	0	T	
	DATE OF OCCURRENCE												16	
	NUMBER OF DAYS WITH:													
	SNOWFALL ≥ 1.0	0	0			0	0	0	0	0	0	0	0	

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METEOROLOGICAL DATA FOR 1997

SHREVEPORT, LA (SHV)

LATITUDE: 32° 26′ 49″ N LONGITUDE: 93° 49′ 27″ W ELEVATION (FT): GRND: 254 BARO: 268 TIME ZONE: CENTRAL (UTC+ 6) WBAN: 13957

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	54.8	60.0	71.8	70.7	80.4	87.8	93.4	91.0	89.2	78.0	60.6	55.8	74.5
	HIGHEST DAILY MAXIMUM	82	78	85	86	89	94	100	100	95	89	77	73	100
	DATE OF OCCURRENCE	4	2 +	28	21	26	24	27	5	20+	6	27	20+	AUG 5
	MEAN DAILY MINIMUM	36.4	42.4	50.9	49.9	60.2	68.3	73.8	71.0	67.1	55.5	43.2	36.2	54.6
	LOWEST DAILY MINIMUM	18	27	39	36	45	59	69	62	57	38	26	26	18
	DATE OF OCCURRENCE	18	11	15+	13	13	2	07+	25	28	28	17	15	JAN 18
	AVERAGE DRY BULB	45.6	51.2	61.4	60.3	70.3	78.1	83.6	81.0	78.2	66.8	51.9	46.0	64.5
	MEAN WET BULB	41.3	47.5	55.6	54.8	64.6	72.1	76.4	74.0	70.7	60.4	48.2	41.7	58.9
	MEAN DEW POINT	34.7	43.3	50.8	49.8	60.7	69.5	73.5	71.2	67.1	56.5	44.8	36.6	54.9
	NUMBER OF DAYS WITH:													
	MAXIMUM ≥ 90°	0	0	0	0	0	11	27	23	19	0	0	0	80
	MAXIMUM ≤ 32°	2	0	0	0	0	0	0	0	0	0	0	0	2
	MINIMUM ≤ 32°	11	2	0	0	0	0	0	0	0	0	3	10	26
	MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0
H/C	HEATING DEGREE DAYS	604	383	133	157	5	0	0	0	0	95	392	580	2349
	COOLING DEGREE DAYS	9	4	29	25	180	398	583	504	399	157	6	0	2294
RH	MEAN (PERCENT)	68	77	72	71	74	78	75	76	73	75	80	74	74
	HOUR 00 LST	73	82	77	80	84	89	87	88	83	84	88	81	83
	HOUR 06 LST	78	88	87	86	89	93	93	92	90	90	92	85	89
	HOUR 12 LST	60	67	62	57	62	63	60	62	57	58	66	60	61
	HOUR 18 LST	63	70	61	58	61	64	61	61	60	70	74	69	64
S	PERCENT POSSIBLE SUNSHINE				75		91	93	91	90	85	74	77	
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY ≤ 1/4 MI)	2	2	2	1	1	0	0	0	0	1	6	2	17
	THUNDERSTORMS	4	5	8	7	5	11	7	3	3	6	2	1	62
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	MIDNIGHT-MIDNIGHT: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	NUMBER OF DAYS WITH:													
	CLEAR													
	PARTLY CLOUDY													
	CLOUDY													
PR	MEAN STATION PRESS. (IN.)	29.87	29.86	29.78	29.68	29.72	29.63	29.73	29.74	29.69	29.76	29.78	29.76	29.75
	MEAN SEA-LEVEL PRESS. (IN.)	30.13	30.12	30.03	29.94	29.97	29.88	29.98	29.99	29.94	30.01	30.04	30.03	30.01
WINDS	RESULTANT SPEED (MPH)	1.3	2.0	0.5	2.2	0.8	1.4	1.0	1.0	0.4	1.6	0.9	2.2	0.3
	RES. DIR. (TENS OF DEGS.)	36	07	14	02	10	20	34	20	36	13	29	31	02
	MEAN SPEED (MPH)	9.1	8.1	8.2	8.5	6.9	5.7	5.2	5.7	5.2	6.5	6.6	7.6	6.9
	PREVAIL.DIR.(TENS OF DEGS.)	04	07	16	33	18	18	21	20	14	14	31	31	14
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)	29	34	38	33	26	37	32	30	26	29	26	30	38
	DIR. (TENS OF DEGS.)	31	25	28	07	30	35	13	28	01	30	29	30	28
	DATE OF OCCURRENCE	27	20	30	25+	02	13	19	22	03	23	03	29	MAR 30
	MAXIMUM 5-SECOND WIND:													
	SPEED (MPH)	33	41	46	41	32	44	39	59	36	36	36	36	59
	DIR. (TENS OF DEGS.)	31	18	28	34	31	34	15	34	01	34	27	30	34
	DATE OF OCCURRENCE	27+	26+	30	22	02	13	19	22	03	13	02	29	AUG 22
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	4.47	8.09	8.72	11.93	3.19	6.14	1.73	5.48	2.41	7.50	3.44	6.10	69.20
	GREATEST 24-HOUR (IN.)	1.42	2.95	2.72	7.77	1.65	1.47	1.01	1.95	2.11	3.56	1.09	2.17	7.77
	DATE OF OCCURRENCE	8	12	1-2	4-5	2	27-28	19-20	22	23	23-24	05	20-21	APR 4-5
	NUMBER OF DAYS WITH:													
	PRECIPITATION ≥ 0.01	10	12	14	11	6	12	7	6	4	10	10	8	110
	PRECIPITATION ≥ 0.10	8	8	11	6	4	10	4	6	2	9	6	6	80
	PRECIPITATION ≥ 1.00	2	3	2	5	1	1	0	3	1	3	1	4	26
SNOWFALL	SNOW,ICE PELLETS,HAIL:													
	TOTAL (IN.)	0.1	T	0.0	T	0.0	0.0	0.0	T	0.0	0.0	T	0.0	0.1
	GREATEST 24-HOUR (IN.)	0.1	T	0.0	T	0.0	0.0	0.0	T	0.0	0.0	T	0.0	0.1
	DATE OF OCCURRENCE	12	09		22				22			15		JAN 12
	MAXIMUM SNOW DEPTH (IN.)	T	0	0	0	0	0	0	0	0	0	0	0	T
	DATE OF OCCURRENCE	12												JAN 12
	NUMBER OF DAYS WITH:													
	SNOWFALL ≥ 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0

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METEOROLOGICAL DATA FOR 1998

SHREVEPORT, LA (SHV)

LATITUDE: 32° 26′ 49″ N LONGITUDE: 93° 49′ 27″ W ELEVATION (FT): GRND: 254 BARO: 268 TIME ZONE: CENTRAL (UTC+ 6) WBAN: 13957

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	60.6	62.0	66.6	75.4	88.8	96.0	100.7	95.2	91.2	78.3	66.8	58.1	78.3
	HIGHEST DAILY MAXIMUM	70	74	86	85	102	102	107	108	102	92	79	81	108
	DATE OF OCCURRENCE	18+	25+	30	14+	31	14+	31	02	04	01	25	6	AUG 02
	MEAN DAILY MINIMUM	42.8	41.2	45.6	51.5	65.8	73.7	76.3	74.0	72.2	58.6	49.2	40.4	57.6
	LOWEST DAILY MINIMUM	29	30	26	42	53	58	72	70	69	43	36	22	22
	DATE OF OCCURRENCE	16+	08+	11	11+	04+	07	03	08	25+	23	22+	26	DEC 26
	AVERAGE DRY BULB	51.7	51.6	56.1	63.5	77.3	84.9	88.5	84.6	81.7	68.5	58.0	49.3	68.0
	MEAN WET BULB	48.1	46.7	50.0	56.9	69.2	74.5	75.5	74.8	73.3	63.1	54.7	46.0	61.1
	MEAN DEW POINT	44.9	41.3	43.4	51.2	64.9	69.9	69.9	70.9	69.5	60.1	52.1	42.4	56.7
	NUMBER OF DAYS WITH:													
	MAXIMUM ≥ 90°	0	0	0	0	16	27	31	26	22	1	0	0	123
	MAXIMUM ≤ 32°	0	0	0	0	0	0	0	0	0	0	0	2	2
	MINIMUM ≤ 32°	3	2	6	0	0	0	0	0	0	0	0	8	19
	MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0
H/C	HEATING DEGREE DAYS	406	368	324	88	0	0	0	0	0	37	215	501	1939
	COOLING DEGREE DAYS	1	0	56	50	392	602	737	613	508	152	15	22	3148
RH	MEAN (PERCENT)	81	72	66	68	69	64	60	69	71	79	84	80	72
	HOUR 06 LST	91	88	83	89	91	88	86	89	87	93	92	91	89
	HOUR 12 LST	73	60	54	50	53	51	42	54	58	63	73	68	58
	HOUR 18 LST	73	58	53	52	53	46	43	57	61	74	81	76	61
	HOUR 24 LST	88	78	74	80	81	73	71	80	80	89	90	86	81
S	PERCENT POSSIBLE SUNSHINE	68					94				75		68	
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY ≤ 1/4 MI)	4	3	0	2	0	0	0	0	1	1	7	4	22
	THUNDERSTORMS	6	4	3	3	3	2	7	11	0	2	3	4	48
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	MIDNIGHT-MIDNIGHT: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	NUMBER OF DAYS WITH:													
	CLEAR													
	PARTLY CLOUDY													
	CLOUDY													
PR	MEAN STATION PRESS. (IN.)	29.73	29.62	29.72	29.67	29.61	29.63	29.69	29.71	29.61	29.82	29.81	29.90	29.71
	MEAN SEA-LEVEL PRESS. (IN.)	30.00	29.89	29.99	29.94	29.87	29.90	29.96	29.98		30.09	30.08	30.18	
WINDS	RESULTANT SPEED (MPH)	1.1	0.9	3.1	2.2	1.4	3.6	0.5	0.9	0.7	1.3	1.0	1.7	0.7
	RES. DIR. (TENS OF DEGS.)	13	33	20	22	17	17	16	08	29	07	10	04	16
	MEAN SPEED (MPH)	7.3	7.4	10.6	8.7	7.1	10.0	6.9	5.0	6.7	5.9	6.4	7.4	7.5
	PREVAIL.DIR.(TENS OF DEGS.)	14	01	16	18	19	18	21	08	01	17	01	01	17
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)	23	43	34	30	25	41	41	40	24	32	40	31	43
	DIR. (TENS OF DEGS.)	28	30	18	16	36	29	15	11	08	31	29	30	30
	DATE OF OCCURRENCE	11	10	30	12	26	04	25	05	11	03	10	21	FEB 10
	MAXIMUM 5-SECOND WIND:													
	SPEED (MPH)	28	52	41	34	29	55	67	55	33	38	48	34	67
	DIR. (TENS OF DEGS.)	27	34	28	16	36	31	18	03	08	30	28	29	18
	DATE OF OCCURRENCE	11	10	19	13	26	04	25	05	11	02	10	21	JUL 25
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	5.84	7.19	4.28	0.79	0.15	1.35	2.84	3.83	7.79	5.72	4.58	6.24	50.60
	GREATEST 24-HOUR (IN.)	2.81	2.19	2.06	0.27	0.15	1.25	1.48	2.54	3.76	2.08	1.40	1.60	3.76
	DATE OF OCCURRENCE	06-07	10	16	26-27	26	04-05	12-13	05-06	11-12	06	12-13	10-11	SEP 11-12
	NUMBER OF DAYS WITH:													
	PRECIPITATION ≥ 0.01	12	10	8	5	1	4	8	9	7	9	14	14	101
	PRECIPITATION ≥ 0.10	8	7	3	4	1	2	5	6	5	7	9	8	65
	PRECIPITATION ≥ 1.00	2	3	2	0	0	1	1	1	3	3	0	3	19
SNOWFALL	SNOW, ICE PELLETS, HAIL:													
	TOTAL (IN.)	T	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
	GREATEST 24-HOUR (IN.)	T	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
	DATE OF OCCURRENCE	26	26	13+									23	DEC 23
	MAXIMUM SNOW DEPTH (IN.)	0	0	0	0	0	0	0	0	0	0	0	T	T
	DATE OF OCCURRENCE												24+	DEC 24+
	NUMBER OF DAYS WITH:													
	SNOWFALL ≥ 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0

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METEOROLOGICAL DATA FOR 1999

SHREVEPORT, LA (SHV)

LATITUDE: 32° 26′ 49″ N LONGITUDE: 93° 49′ 27″ W ELEVATION (FT): GRND: 265 BARO: 265 TIME ZONE: CENTRAL (UTC + 6) WBAN: 13957

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	62.9	68.9	66.5	80.1	82.6	89.0	92.3	98.2	86.4	78.1	72.5	61.9	78.3
	HIGHEST DAILY MAXIMUM	79	81	79	89	89	93	96	105	93	88	81	78	105
	DATE OF OCCURRENCE	21+	11+	01	24+	09	28	29+	19	5 +	03	14+	03	AUG 19
	MEAN DAILY MINIMUM	40.2	45.0	46.2	58.6	61.4	70.6	73.4	73.5	64.1	52.8	45.0	37.3	55.7
	LOWEST DAILY MINIMUM	17	30	32	37	49	62	68	61	47	36	31	24	17
	DATE OF OCCURRENCE	04	22	15	18	07	19	13	16	23	25	26	22	JAN 04
	AVERAGE DRY BULB	51.6	57.0	56.4	69.4	72.0	79.8	82.9	85.9	75.3	65.5	58.8	49.6	67.0
	MEAN WET BULB		50.7	51.2	62.4	66.2	72.9	75.5	73.3	66.3		52.2	44.5	
	MEAN DEW POINT		43.7	46.2	57.4	62.6	69.8	72.8	67.1	60.9		46.1	38.2	
	NUMBER OF DAYS WITH:													
	MAXIMUM ≥ 90°	0	0	0	0	0	16	27	30	10	0	0	0	83
	MAXIMUM ≤ 32°	0	0	0	0	0	0	0	0	0	0	0	0	0
	MINIMUM ≤ 32°	10	1	1	0	0	0	0	0	0	0	1	13	26
	MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0
H/C	HEATING DEGREE DAYS	422	250	261	41	1	0	0	0	2	79	189	477	1722
	COOLING DEGREE DAYS	12	29	0	180	224	451	562	655	317	101	9	6	2546
RH	MEAN (PERCENT)	75	66	73	70	74	75	76	57	66	69	68	69	70
	HOUR 00 LST	80	73	80	78	86	85	87	67	76	80	78	76	79
	HOUR 06 LST	86	86	85	88	90	90	94	80	85	89	86	85	87
	HOUR 12 LST	63	50	61	56	59	62	58	42	51	51	48	53	54
	HOUR 18 LST	65	52	63	56	63	63	62	39	55	59	59	61	58
S	PERCENT POSSIBLE SUNSHINE	78	87				93	96		93	90	95	88	
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG (VISBY ≤ 1/4 MI)	3	1	0	2	1	0	1	0	1	0	2	5	16
	THUNDERSTORMS	6	2	9	4	11	7	12	4	6	1	1	4	67
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	MIDNIGHT-MIDNIGHT: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	NUMBER OF DAYS WITH:													
	CLEAR													
	PARTLY CLOUDY													
	CLOUDY													
PR	MEAN STATION PRESS. (IN.)		29.82	29.76	29.67	29.67	29.69	29.76	29.66	29.70	29.81	29.90	29.85	
	MEAN SEA-LEVEL PRESS. (IN.)		30.09	30.04	29.94	29.94	29.96	30.02	29.93	29.97	30.08	30.18	30.14	
WINDS	RESULTANT SPEED (MPH)		2.5	1.9	2.8	0.7	3.0	1.2	1.7	2.0	1.0	0.7	1.2	
	RES. DIR. (TENS OF DEGS.)		20	07	19	13	16	20	03	05	03	14	23	
	MEAN SPEED (MPH)	8.8	8.5	8.5	9.2	6.6	6.8	5.5	5.6	5.7	5.2	5.5	7.7	7.0
	PREVAIL.DIR. (TENS OF DEGS.)	17	17	06	17	18	18	18	07	01	36	16	14	17
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)	38	41	54	45	33	25	29	25	24	25	25	30	54
	DIR. (TENS OF DEGS.)	28	27	29	26	22	01	13	13	03	29	01	29	29
	DATE OF OCCURRENCE	01	11	02	26	05	13	07	31	07	30	02	14+	MAR 02
	MAXIMUM 5-SECOND WIND:													
	SPEED (MPH)	45	52	68	55	45	31	39	36	30	30	32	38	68
	DIR. (TENS OF DEGS.)	19	28	31	26	32	01	13	36	36	30	31	17	31
	DATE OF OCCURRENCE	21	11	02	26	17	24+	07	24	07	30	02	04	MAR 02
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	12.96	0.42	5.10	7.88	3.96	7.98	2.80	1.47	4.90	3.21	0.52	3.82	55.02
	GREATEST 24-HOUR (IN.)	7.00	0.30	1.10	5.15	0.76	3.59	0.98	1.35	2.27	1.04	0.25	1.37	7.00
	DATE OF OCCURRENCE	28-29	11	13	04	17+	24-25	10-11	27	03	07	19	11-12	JAN 28-29
	NUMBER OF DAYS WITH:													
	PRECIPITATION ≥ 0.01	7	3	15	6	13	8	10	2	8	6	4	10	92
	PRECIPITATION ≥ 0.10	6	1	11	4	10	7	8	2	7	4	3	7	70
	PRECIPITATION ≥ 1.00	4	0	1	3	0	3	0	1	2	1	0	1	16
SNOWFALL	SNOW, ICE PELLETS, HAIL:													
	TOTAL (IN.)	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T
	GREATEST 24-HOUR (IN.)	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T
	DATE OF OCCURRENCE			02									21	DEC 21
	MAXIMUM SNOW DEPTH (IN.)	0	0	0	0	0	0	0	0	0	0	0	0	0
	DATE OF OCCURRENCE													
	NUMBER OF DAYS WITH:													
	SNOWFALL ≥ 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0

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METEOROLOGICAL DATA FOR 2000

SHREVEPORT, LA (SHV)

LATITUDE: 32° 26′ 49″ N LONGITUDE: 93° 49′ 27″ W ELEVATION (FT): GRND: 265 BARO: 265 TIME ZONE: CENTRAL (UTC + 6) WBAN: 13957

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	60.2	69.4	72.2	74.3	85.0	87.5	94.4	100.2	91.0	80.1	61.4	48.0	77.0
	HIGHEST DAILY MAXIMUM	79	80	85	86	91	93	101	109	109	91	85	71	109
	DATE OF OCCURRENCE	11	25+	28+	19+	31+	24	20	31	03	03+	01	11	SEP 03
	MEAN DAILY MINIMUM	40.6	45.0	51.2	52.8	66.5	70.7	73.4	73.6	65.2	55.4	43.8	31.5	55.8
	LOWEST DAILY MINIMUM	23	27	34	36	55	58	64	67	48	38	28	23	23
	DATE OF OCCURRENCE	05	05	12+	09	15	07	26	13	27	10	21	31+	DEC 31+
	AVERAGE DRY BULB	50.4	57.2	61.7	63.6	75.8	79.1	83.9	86.9	78.1	67.8	52.6	39.8	66.4
	MEAN WET BULB	45.5	52.1	56.8	58.4	69.6	72.8	74.9	73.2		61.1	49.3	36.8	
	MEAN DEW POINT	39.3	47.8	53.0	54.1	66.3	70.3	71.0	66.7		56.5	46.0	31.8	
	NUMBER OF DAYS WITH:													
	MAXIMUM ≥ 90°	0	0	0	0	8	12	28	31	17	3	0	0	99
	MAXIMUM ≤ 32°	1	0	0	0	0	0	0	0	0	0	0	1	2
	MINIMUM ≤ 32°	10	2	0	0	0	0	0	0	0	0	4	18	34
	MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0
H/C	HEATING DEGREE DAYS	462	247	149	103	0	0	0	0	10	70	388	774	2203
	COOLING DEGREE DAYS	15	28	55	67	341	429	593	689	409	166	22	0	2814
RH	MEAN (PERCENT)	70	74	77	74	75	78	68	55	61	71	82	76	72
	HOUR 00 LST	78	82	85	84	85	88	81	66	72	80	90	82	81
	HOUR 06 LST	84	92	90	90	90	91	89	83	82	92	92	83	88
	HOUR 12 LST	59	63	65	62	62	67	53	39	45	55	69	67	59
	HOUR 18 LST	59	60	65	62	63	69	52	35	47	58	79	72	60
S	PERCENT POSSIBLE SUNSHINE	79	86	73	73	77	82	96	98	92	91		61	
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY ≤ 1/4 MI)	5	2	0	4	3	0	0	0	1	3	1	3	22
	THUNDERSTORMS	1	2	9	8	9	9	4	4	4	3	5	3	61
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	MIDNIGHT-MIDNIGHT: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	NUMBER OF DAYS WITH:													
	CLEAR													
	PARTLY CLOUDY													
	CLOUDY													
PR	MEAN STATION PRESS. (IN.)	29.89	29.86	29.72	29.73	29.65	29.73	29.69	29.72	29.68	29.87	29.78	29.96	29.77
	MEAN SEA-LEVEL PRESS. (IN.)	30.17	30.14	30.00	30.01	29.93	30.01	29.97	29.99	29.95	30.15	30.07	30.25	30.05
WINDS	RESULTANT SPEED (MPH)	0.9	3.2	1.1	1.3	4.2	3.0	1.0	1.6	2.5	1.0	1.1		
	RES. DIR. (TENS OF DEGS.)	17	17	13	19	16	20	36	21	07	14	03		
	MEAN SPEED (MPH)	8.3	8.1	7.8	8.1	8.5	6.5	5.2	5.5	7.4	5.7	7.3	8.1	7.2
	PREVAIL.DIR.(TENS OF DEGS.)	18	17	13	18	17	17	22	20	06	17	36	36	18
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)	35	32	38	39	63	35	24	22	30	26	30	36	63
	DIR. (TENS OF DEGS.)	26	13	32	34	32	25	33	10	05	02	29	30	32
	DATE OF OCCURRENCE	09	23	10	23	27	14	29	22+	12	08	23	16	MAY 27
	MAXIMUM 5-SECOND WIND:													
	SPEED (MPH)	46	43	45	49	81	41	29	26	38	31	33	45	81
	DIR. (TENS OF DEGS.)	26	12	30	32	32	25	33	01	05	02	29	30	32
	DATE OF OCCURRENCE	09	23	29	23	27	14	29	11	12	08	23	16	MAY 27
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	2.60	2.31	7.90	5.67	10.76	7.32	1.05	T	1.13	1.65	9.93	7.56	57.88
	GREATEST 24-HOUR (IN.)	1.37	1.41	2.36	1.50	3.48	1.63	0.55	T	0.61	1.42	2.62	2.21	3.48
	DATE OF OCCURRENCE	27	26	15	11-12	03-04	11	01-02	22+	24-25	05-06	23-24	12-13	MAY 03-04
	NUMBER OF DAYS WITH:													
	PRECIPITATION ≥ 0.01	5	6	13	9	11	14	4	0	8	4	19	14	107
	PRECIPITATION ≥ 0.10	2	2	8	9	10	11	3	0	3	3	14	8	73
	PRECIPITATION ≥ 1.00	2	1	3	1	3	2	0	0	0	0	4	3	19
SNOWFALL	SNOW, ICE PELLETS, HAIL:													
	TOTAL (IN.)	1.1	T	T	T	T	0.0	0.0	0.0	0.0	0.0	T	2.2	3.3
	GREATEST 24-HOUR (IN.)	1.1	T	T	T	T	0.0	0.0	0.0	0.0	0.0	T	2.2	2.2
	DATE OF OCCURRENCE	27	18	26	23	03						19+	31	DEC 31
	MAXIMUM SNOW DEPTH (IN.)	1	0	0	0	0	0	0	0	0	0	0	2	2
	DATE OF OCCURRENCE	29+											31	DEC 31
	NUMBER OF DAYS WITH:													
	SNOWFALL ≥ 1.0	1	0	0	0	0	0	0	0	0	0	0	1	2

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METEOROLOGICAL DATA FOR 1996

JACKSON, MS (JAN)

LATITUDE: 32° 19′ 11″ N LONGITUDE: 90° 04′ 39″ W ELEVATION (FT): GRND: 291 BARO: 297 TIME ZONE: CENTRAL (UTC+ 6) WBAN: 03940

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	56.9	61.1	64.0	74.3	86.5	88.9	91.2	88.3	84.6	77.5	65.6	62.4	75.1
	HIGHEST DAILY MAXIMUM	74	83	80	86	95	94	99	95	92	87	80	78	99
	DATE OF OCCURRENCE	30+	23	15	20+	24	30	3	24	16	27	1	12	JUL 3
	MEAN DAILY MINIMUM	33.6	38.5	39.8	48.7	64.8	68.3	71.4	69.5	62.5	52.8	44.9	39.3	52.8
	LOWEST DAILY MINIMUM	19	10	16	33	44	57	64	65	45	36	30	15	10
	DATE OF OCCURRENCE	19	5	9	7	1	10	5	15	29	19	27	20	FEB 5
	AVERAGE DRY BULB	45.2	49.8	51.9	61.5	75.7	78.6	81.3	78.9	73.6	65.2	55.3	50.9	64.0
	MEAN WET BULB	41.6	44.1	46.0	54.9	68.5	71.4	73.6	73.3	67.9	59.5	51.2		
	MEAN DEW POINT	36.4	37.3	38.8	48.6	64.5	68.1	70.7	71.2	65.1	55.4	47.3		
	NUMBER OF DAYS WITH:													
	MAXIMUM ≥ 90°	0	0	0	0	10	16	21	16	5	0	0	0	68
	MAXIMUM ≤ 32°	1	2	1	0	0	0	0	0	0	0	0	0	4
	MINIMUM ≤ 32°	18	10	10	0	0	0	0	0	0	0	1	10	49
	MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0
H/C	HEATING DEGREE DAYS	603	460	410	161	4	0	0	0	11	80	298	435	2462
	COOLING DEGREE DAYS	0	28	12	64	343	418	512	439	275	92	13	5	2201
RH	MEAN (PERCENT)	74	66	65	66	71	75	75	83	80	76	77	76	74
	HOUR 06 LST	84	78	84	86	90	91	90	97	96	95	88	86	89
	HOUR 12 LST	65	53	52	47	54	56	58	64	59	54	62	63	57
	HOUR 18 LST	70	58	52	51	55	63	66	76	73	71	79	71	65
	HOUR 24 LST	81	75	74	81	84	87	85	96	93	88	84	86	84
S	PERCENT POSSIBLE SUNSHINE							85	85	87	83	63	71	
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY ≤ 1/4 MI)	6	3	1	1	0	1	2	3	0	1	0	5	23
	THUNDERSTORMS	5	2	9	7	4	7	11	12	5	4	2	2	70
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)			3	2	2	2							
	SATELLITE (> 12,000 FT.)			2			2							
	MIDNIGHT-MIDNIGHT: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)			3	2	2	2							
	SATELLITE (> 12,000 FT.)			2										
	NUMBER OF DAYS WITH:													
	CLEAR	1	5	10		12	11							
	PARTLY CLOUDY	1	1	4		4	4							
	CLOUDY	2	4	10		3	6							
PR	MEAN STATION PRESS. (IN.)	29.73	29.74	29.71	29.66	29.66	29.64	29.66	29.70	29.59	29.70	29.79		
	MEAN SEA-LEVEL PRESS. (IN.)	30.09	30.10	30.06	30.01	30.01	29.98	30.00	30.04	29.93	30.05	30.14		
WINDS	RESULTANT SPEED (MPH)	1.3	0.5	1.1	1.4	3.2	1.2	0.5	0.4	1.1	1.5	0.6		
	RES. DIR. (TENS OF DEGS.)	21	28	30	17	16	18	30	35	33	30	21		
	MEAN SPEED (MPH)	7.9	8.0	8.1	7.7	5.6	3.8	4.0	3.3	4.2	5.2	6.6	6.2	5.9
	PREVAIL.DIR.(TENS OF DEGS.)	15	16	15	15	16	15	15	08	15	15	14	15	15
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)	32	26	31	40	26	30	41	26	22	26	25	22	41
	DIR. (TENS OF DEGS.)	34	33	28	28	36	10	09	32	24	26	31	14	09
	DATE OF OCCURRENCE	30	16	18	14	11	18	09	27+	27+	22	07	30	JUL 09
	MAXIMUM 5-SECOND WIND:													
	SPEED (MPH)	40	34	40	54	33	40	41	40	36	34	31	32	54
	DIR. (TENS OF DEGS.)	34	01	32	29	36	10	09	30	20	26	32	21	29
	DATE OF OCCURRENCE	30	2	19	14	11	18	09	12	16	22	07	10	APR 14
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	8.85	2.01	8.58	6.01	0.72	3.85	6.99	6.70	1.49	1.59	4.84	3.33	54.96
	GREATEST 24-HOUR (IN.)	3.56	1.04	1.85	2.49	0.56	1.71	2.01	1.67	1.17	0.76	2.40	1.66	3.56
	DATE OF OCCURRENCE	26	01-02	24-25	14-15	11	18	9	27-28	27-28	25-26	18	16	JAN 26
	NUMBER OF DAYS WITH:													
	PRECIPITATION ≥ 0.01	15	6	11	10	4	8	13	16	5	6	8	10	112
	PRECIPITATION ≥ 0.10	9	4	10	9	2	7	9	10	4	5	6	4	79
	PRECIPITATION ≥ 1.00	3	0	4	2	0	1	2	3	0	0	1	1	17
SNOWFALL	SNOW,ICE PELLETS,HAIL:													
	TOTAL (IN.)	T	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
	GREATEST 24-HOUR (IN.)	T	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
	DATE OF OCCURRENCE	31+	29+	31+									18	DEC 18
	MAXIMUM SNOW DEPTH (IN.)	0	0	0	0	0	0	0	0	0	0	0	0	0
	DATE OF OCCURRENCE													
	NUMBER OF DAYS WITH:													
	SNOWFALL ≥ 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0

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METEOROLOGICAL DATA FOR 1997

JACKSON, MS (JAN)

LATITUDE: 32° 19′ 11″ N LONGITUDE: 90° 04′ 39″ W ELEVATION (FT): GRND: 291 BARO: 297 TIME ZONE: CENTRAL (UTC+ 6) WBAN: 03940

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	55.7	60.7	73.3	70.7	80.5	86.2	92.9	90.1	88.7	77.2	60.5	54.4	74.2
	HIGHEST DAILY MAXIMUM	78	79	85	83	89	92	97	95	95	90	74	70	97
	DATE OF OCCURRENCE	04	20	28	30	27+	28+	28+	18	20+	08	28+	20+	JUL 28+
	MEAN DAILY MINIMUM	36.3	42.3	49.7	48.5	59.1	67.9	71.6	68.9	64.6	53.0	40.9	35.3	53.2
	LOWEST DAILY MINIMUM	15	29	36	33	45	56	66	59	56	37	24	20	15
	DATE OF OCCURRENCE	18	16+	07	18	05	03	14	25	13+	29	17	15	JAN 18
	AVERAGE DRY BULB	46.0	51.5	61.5	59.6	69.8	77.1	82.3	79.5	76.7	65.1	50.7	44.9	63.7
	MEAN WET BULB	41.6	47.8	55.5	53.9	63.7	71.6	75.7	72.9	69.1	58.4	48.0	42.0	58.4
	MEAN DEW POINT	36.2	43.7	50.3	48.3	59.4	69.5	73.6	70.3	65.6	54.1	44.7	38.6	54.5
	NUMBER OF DAYS WITH:													
	MAXIMUM ≥ 90°	0	0	0	0	0	8	29	20	15	1	0	0	73
	MAXIMUM ≤ 32°	3	0	0	0	0	0	0	0	0	0	0	0	3
	MINIMUM ≤ 32°	15	3	0	0	0	0	0	0	0	0	5	14	37
	MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0
H/C	HEATING DEGREE DAYS	592	381	143	170	16	0	0	0	0	129	420	617	2468
	COOLING DEGREE DAYS	13	9	40	15	175	368	540	459	357	139	0	0	2115
RH	MEAN (PERCENT)	72	77	71	70	74	82	80	79	74	73	82	81	76
	HOUR 00 LST	79	84	82	82	86	94	94	93	88	86	92	88	87
	HOUR 06 LST	82	88	87	86	90	96	97	96	96	92	95	91	91
	HOUR 12 LST	63	64	57	56	57	65	61	59	53	51	66	68	60
	HOUR 18 LST	67	69	60	58	62	73	73	69	63	70	81	79	69
S	PERCENT POSSIBLE SUNSHINE	56	47	59							89	73	58	
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY ≤ 1/4 MI)	4	2	2	0	0	1	0	1	1	0	3	5	19
	THUNDERSTORMS	5	2	6	7	12	10	15	8	2	7	6	2	82
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	MIDNIGHT-MIDNIGHT: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	NUMBER OF DAYS WITH:													
	CLEAR													
	PARTLY CLOUDY													
	CLOUDY													
PR	MEAN STATION PRESS. (IN.)	29.79	29.80	29.72	29.62	29.66	29.57	29.65	29.68	29.62	29.70	29.69	29.67	29.68
	MEAN SEA-LEVEL PRESS. (IN.)	30.14	30.16	30.06	29.97	30.00	29.91	30.00	30.02	29.96	30.05	30.05	30.02	30.03
WINDS	RESULTANT SPEED (MPH)	2.0	1.2	1.0	1.8	1.4	0.6	0.7	0.3	0.5	2.0	0.6	1.2	0.7
	RES. DIR. (TENS OF DEGS.)	36	08	07	05	07	17	02	23	33	07	32	32	04
	MEAN SPEED (MPH)	7.5	7.4	6.8	6.6	5.1	4.2	3.5	3.8	4.0	6.4	4.8	6.0	5.5
	PREVAIL.DIR.(TENS OF DEGS.)	01	15	15	34	15	14	36	15	15	15	15	34	15
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)	23	31	26	43	26	23	29	30	24	26	25	25	43
	DIR. (TENS OF DEGS.)	34	22	30	12	26	16	01	02	01	02	26	09	12
	DATE OF OCCURRENCE	16+	21	05	04	27+	28	17	05	03	14	03	23	APR 04
	MAXIMUM 5-SECOND WIND:													
	SPEED (MPH)	31	46	34	49	39	32	32	36	29	32	32	29	49
	DIR. (TENS OF DEGS.)	29	21	29	12	26	17	01	36	33	01	25	30	12
	DATE OF OCCURRENCE	15+	21	05	04	27	28	17	13+	09+	14	03	29+	APR 04
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	4.46	6.75	2.26	7.77	6.83	8.45	1.15	5.02	2.69	4.26	3.53	5.77	58.94
	GREATEST 24-HOUR (IN.)	1.33	2.64	0.75	2.55	2.20	6.49	0.56	3.24	2.06	1.82	1.35	3.18	6.49
	DATE OF OCCURRENCE	27-28	12-13	13-14	27	27-28	10	18	13-14	24-25	13	28-29	23-24	JUN 10
	NUMBER OF DAYS WITH:													
	PRECIPITATION ≥ 0.01	13	14	10	9	13	11	5	8	3	7	12	11	116
	PRECIPITATION ≥ 0.10	8	10	6	7	12	7	3	4	3	6	6	9	81
	PRECIPITATION ≥ 1.00	1	3	0	4	2	1	0	1	1	1	0	1	15
SNOWFALL	SNOW, ICE PELLETS, HAIL:													
	TOTAL (IN.)	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8
	GREATEST 24-HOUR (IN.)	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8
	DATE OF OCCURRENCE	13+	10+										14	DEC 14
	MAXIMUM SNOW DEPTH (IN.)	0	0	0	0	0	0	0	0	0	0	0	5	5
	DATE OF OCCURRENCE												14	DEC 14
	NUMBER OF DAYS WITH:													
	SNOWFALL ≥ 1.0	0	0	0	0	0	0	0	0	0	0	0	1	1

METEOROLOGICAL DATA FOR 1998

JACKSON, MS (JAN)

LATITUDE: 32° 19′ 11″ N LONGITUDE: 90° 04′ 39″ W ELEVATION (FT): GRND: 291 BARO: 297 TIME ZONE: CENTRAL (UTC+ 6) WBAN: 03940

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	58.9	60.4	66.6	73.4	86.3	92.5	93.1	93.5	90.7	81.9	69.8	60.5	77.3
	HIGHEST DAILY MAXIMUM	72	75	85	84	95	97	99	100	98	95	86	81	100
	DATE OF OCCURRENCE	05+	10	30	8	31	01	01	29+	04	02+	01	06	AUG 29+
	MEAN DAILY MINIMUM	39.5	39.5	44.7	51.8	62.5	71.8	73.8	71.8	70.4	54.9	47.5	42.3	55.9
	LOWEST DAILY MINIMUM	25	28	23	40	50	55	70	67	63	38	32	28	23
	DATE OF OCCURRENCE	01	07	12	11	04	07	18	28+	04	24	06	30+	MAR 12
	AVERAGE DRY BULB	49.2	50.0	55.7	62.6	74.4	82.2	83.5	82.7	80.6	68.4	58.7	51.4	66.6
	MEAN WET BULB	46.8				68.3	74.6	76.7	74.4	71.9	61.5	55.0	47.8	
	MEAN DEW POINT	43.8				64.7	71.4	74.4	71.2	68.1	57.5	51.9	44.8	
	NUMBER OF DAYS WITH:													
	MAXIMUM ≥ 90°	0	0	0	0	9	26	26	26	22	3	0	0	112
	MAXIMUM ≤ 32°	0	0	0	0	0	0	0	0	0	0	0	0	0
	MINIMUM ≤ 32°	8	6	10	0	0	0	0	0	0	0	1	12	37
	MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0
H/C	HEATING DEGREE DAYS	481	414	336	124	0	1	0	0	0	46	197	442	2041
	COOLING DEGREE DAYS	2	0	55	60	298	522	582	554	474	156	12	29	2744
RH	MEAN (PERCENT)	83	75	67	74	74	72	79	74	71	74	81	82	76
	HOUR 06 LST	92	89	83	91	94	90	93	93	89	94	93	93	91
	HOUR 12 LST	72	57	55	58	56	58	61	53	54	51	63	70	59
	HOUR 18 LST	81	67	56	61	59	58	72	61	63	64	79	80	67
	HOUR 24 LST	90	86	78	87	89	81	91	87	82	89	91	90	87
S	PERCENT POSSIBLE SUNSHINE													
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY ≤ 1/4 MI)	3	0	0	2	4	0	3	0	1	1	6	3	23
	THUNDERSTORMS	6	4	6	5	3	4	17	11	1	0	3	0	60
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	MIDNIGHT-MIDNIGHT: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	NUMBER OF DAYS WITH:													
	CLEAR													
	PARTLY CLOUDY													
	CLOUDY													
PR	MEAN STATION PRESS. (IN.)	29.68				29.57	29.62	29.66	29.66	29.56	29.76	29.75	29.82	
	MEAN SEA-LEVEL PRESS. (IN.)	30.03				29.91	29.96	30.00	30.00	29.90	30.11	30.10	30.18	
WINDS	RESULTANT SPEED (MPH)	1.5				0.3	0.4	0.3	1.1	2.1	1.2	0.6	1.8	
	RES. DIR. (TENS OF DEGS.)	12				23	21	25	06	05	03	07	01	
	MEAN SPEED (MPH)	6.4	7.1	8.2	6.8	3.9	5.5	3.6	2.9	6.5	4.5	3.7	6.0	5.4
	PREVAIL.DIR.(TENS OF DEGS.)	15	15	15	15	15	15	16	09	14	15	16	01	15
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)	28	43	30	30	22	31	44	26	55	21	23	28	55
	DIR. (TENS OF DEGS.)	10	13	14	26	14	30	02	14	06	13	27	33	06
	DATE OF OCCURRENCE	07	10	16+	03	09	05	09	11	28	17+	10	22	SEP 28
	MAXIMUM 5-SECOND WIND:													
	SPEED (MPH)	34	51	39	39	29	46	53	32	63	29	30	31	63
	DIR. (TENS OF DEGS.)	10	14	11	26	15	27	02	15	06	02	28	34	06
	DATE OF OCCURRENCE	07	10	07	03	09	05	09	11	28	22	10	22	SEP 28
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	9.52	5.51	6.17	3.68	1.47	3.26	6.44	2.02	2.41	0.51	4.32	6.24	51.55
	GREATEST 24-HOUR (IN.)	4.34	1.48	2.22	1.71	1.43	1.60	1.88	0.73	2.16	0.29	1.32	2.28	4.34
	DATE OF OCCURRENCE	21-22	15-16	07	17-18	28-29	15	09-10	14-15	11-12	06-07	07-08	10-11	JAN 21-22
	NUMBER OF DAYS WITH:													
	PRECIPITATION ≥ 0.01	11	10	8	13	2	5	16	10	6	4	8	11	104
	PRECIPITATION ≥ 0.10	9	7	6	7	1	2	10	5	2	2	7	10	68
	PRECIPITATION ≥ 1.00	3	2	2	1	1	2	2	0	1	0	1	1	16
SNOWFALL	SNOW, ICE PELLETS, HAIL:													
	TOTAL (IN.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T
	GREATEST 24-HOUR (IN.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T
	DATE OF OCCURRENCE												24	DEC 24
	MAXIMUM SNOW DEPTH (IN.)	0	0	0	0	0	0	0	0	0	0	0	0	0
	DATE OF OCCURRENCE													
	NUMBER OF DAYS WITH:													
	SNOWFALL ≥ 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0

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METEOROLOGICAL DATA FOR 1999

JACKSON, MS (JAN)

LATITUDE: 32° 19' 11" N LONGITUDE: 90° 04' 39" W ELEVATION (FT): GRND: 294 BARO: 294 TIME ZONE: CENTRAL (UTC + 6) WBAN: 03940

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	63.2	66.2	65.9	80.6	83.6	89.4	92.0	96.6	88.0	77.9	69.8	59.9	77.8
	HIGHEST DAILY MAXIMUM	79	83	76	89	89	94	97	104	97	87	79	73	104
	DATE OF OCCURRENCE	21	11	23+	24+	21+	24+	30+	19	05	14+	14+	03	AUG 19
	MEAN DAILY MINIMUM	40.6	41.5	42.8	58.0	59.4	69.5	71.9	71.3	62.3	52.0	41.8	36.9	54.0
	LOWEST DAILY MINIMUM	15	26	29	37	47	58	63	61	44	33	30	25	15
	DATE OF OCCURRENCE	05	22	04	18	02+	19	13	16	23	25	30+	26	JAN 05
	AVERAGE DRY BULB	51.9	53.9	54.4	69.3	71.5	79.5	82.0	84.0	75.2	65.0	55.8	48.4	65.9
	MEAN WET BULB	47.8	48.9	49.1	62.5	64.8	72.0	75.1	73.8	65.5	58.5	50.4	44.3	59.4
	MEAN DEW POINT	43.6	43.2	43.2	57.9	60.3	68.7	72.5	69.3	59.7	53.6	45.7	40.0	54.8
	NUMBER OF DAYS WITH:													
	MAXIMUM ≥ 90°	0	0	0	0	0	15	27	30	15	0	0	0	87
	MAXIMUM ≤ 32°	1	0	0	0	0	0	0	0	0	0	0	0	1
	MINIMUM ≤ 32°	7	6	3	0	0	0	0	0	0	0	4	14	34
	MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0
H/C	HEATING DEGREE DAYS	412	320	324	53	3	0	0	0	8	87	268	509	1984
	COOLING DEGREE DAYS	12	14	0	188	213	441	533	596	319	96	1	1	2414
RH	MEAN (PERCENT)	77	71	68	71	71	73	78	66	65	72	76	77	72
	HOUR 00 LST	83	80	77	86	83	85	92	81	79	84	89	87	84
	HOUR 06 LST	90	87	84	89	91	90	94	88	86	91	95	89	90
	HOUR 12 LST	64	57	54	52	51	57	60	46	46	52	51	60	54
	HOUR 18 LST	73	57	60	57	58	60	69	51	54	70	74	75	63
S	PERCENT POSSIBLE SUNSHINE													
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG (VISBY ≤ 1/4 MI)	1	2	1	0	1	1	3	0	1	4	6	4	24
	THUNDERSTORMS	4	2	6	7	8	9	16	3	5	0	0	1	61
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	MIDNIGHT-MIDNIGHT: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	NUMBER OF DAYS WITH:													
	CLEAR													
	PARTLY CLOUDY													
	CLOUDY													
PR	MEAN STATION PRESS. (IN.)	29.76	29.76	29.70	29.63	29.63	29.65	29.71	29.59	29.62	29.75	29.88	29.84	29.71
	MEAN SEA-LEVEL PRESS. (IN.)	30.11	30.11	30.06	29.98	29.97	30.00	30.05	29.93	29.97	30.09	30.19	30.16	30.05
WINDS	RESULTANT SPEED (MPH)	2.0	0.8	1.5	1.8	1.0	0.7	0.2	1.2	2.4	2.0	0.9	0.8	0.4
	RES. DIR. (TENS OF DEGS.)	17	25	04	18	03	16	28	03	03	05	01	17	07
	MEAN SPEED (MPH)	6.8	5.6	7.2	6.8	5.0	4.7	3.4	4.5	5.5	5.0	4.1	6.1	5.4
	PREVAIL.DIR.(TENS OF DEGS.)	16	16	15	16	15	16	16	35	35	36	15	15	15
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)	28	39	37	29	25	23	32	33	23	23	29	25	39
	DIR. (TENS OF DEGS.)	31	26	14	26	24	13	14	01	28	13	33	26	26
	DATE OF OCCURRENCE	02	27	08	26	23	10	18	09	08	08	02	09	FEB 27
	MAXIMUM 5-SECOND WIND:													
	SPEED (MPH)	33	46	43	34	37	29	43	45	30	29	39	34	46
	DIR. (TENS OF DEGS.)	15	26	14	27	24	13	14	01	30	12	33	26	26
	DATE OF OCCURRENCE	22+	27	08	26	23	10	18	09	08	08	02	09	FEB 27
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	8.47	2.04	4.65	2.09	2.66	4.34	4.41	1.71	2.48	5.74	1.88	2.76	43.23
	GREATEST 24-HOUR (IN.)	4.38	1.13	1.44	0.92	0.87	2.07	1.52	1.19	1.53	3.55	0.97	1.36	4.38
	DATE OF OCCURRENCE	29-30	27	12-13	04	11-12	25-26	26-27	09-10	28-29	31	25	12	JAN 29-30
	NUMBER OF DAYS WITH:													
	PRECIPITATION ≥ 0.01	13	9	11	4	11	10	15	6	7	6	6	9	107
	PRECIPITATION ≥ 0.10	10	5	7	3	8	5	9	3	6	4	4	5	69
	PRECIPITATION ≥ 1.00	4	1	2	0	0	1	2	1	1	2	0	1	15
SNOWFALL	SNOW, ICE PELLETS, HAIL:													
	TOTAL (IN.)	T	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T
	GREATEST 24-HOUR (IN.)	T	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T
	DATE OF OCCURRENCE	09		13+										MAR 13+
	MAXIMUM SNOW DEPTH (IN.)	0	0	T	0	0	0	0	0	0	0	0	0	T
	DATE OF OCCURRENCE			08										MAR 08
	NUMBER OF DAYS WITH:													
	SNOWFALL ≥ 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0

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METEOROLOGICAL DATA FOR 2000

JACKSON, MS (JAN)

LATITUDE: 32° 19′ 11″ N LONGITUDE: 90° 04′ 39″ W ELEVATION (FT): GRND: 294 BARO: 294 TIME ZONE: CENTRAL (UTC + 6) WBAN: 03940

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	59.5	68.5	72.5	73.2	85.7	89.3	95.9	98.6	88.0	79.6	62.4	49.0	76.8
	HIGHEST DAILY MAXIMUM	76	81	83	86	94	95	102	107	104	88	83	75	107
	DATE OF OCCURRENCE	19+	26+	23	19	26	03	20+	30	04+	05+	01	16	AUG 30
	MEAN DAILY MINIMUM	38.1	40.8	48.3	50.3	64.9	68.0	71.0	71.3	65.0	51.7	41.7	28.0	53.3
	LOWEST DAILY MINIMUM	21	21	31	33	53	55	62	63	44	37	25	15	15
	DATE OF OCCURRENCE	26	06	13	09	01	08+	25	13	27	11	22	31+	DEC 31+
	AVERAGE DRY BULB	48.8	54.7	60.4	61.8	75.3	78.7	83.5	85.0	76.5	65.7	52.1	38.5	65.1
	MEAN WET BULB	44.5	49.1	54.9	57.0	68.5	71.8	73.2	73.1	67.8		48.3	35.1	
	MEAN DEW POINT	39.0	43.5	50.4	52.6	64.6	68.9	68.8	67.8	63.3		44.5	29.3	
	NUMBER OF DAYS WITH:													
	MAXIMUM ≥ 90°	0	0	0	0	7	19	29	31	12	0	0	0	98
	MAXIMUM ≤ 32°	0	0	0	0	0	0	0	0	0	0	0	1	1
	MINIMUM ≤ 32°	14	8	1	0	0	0	0	0	0	0	8	20	51
	MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0
H/C	HEATING DEGREE DAYS	496	308	165	119	0	0	0	0	7	73	404	813	2385
	COOLING DEGREE DAYS	2	17	28	29	328	417	581	628	357	102	23	0	2512
RH	MEAN (PERCENT)	73	70	74	74	73	77	67	63	71	69	79	72	72
	HOUR 00 LST	80	83	83	87	83	89	81	79	83	82	85	81	83
	HOUR 06 LST	82	89	91	91	91	93	89	89	88	93	89	79	89
	HOUR 12 LST	59	50	59	56	56	57	45	42	54	46	64	59	54
	HOUR 18 LST	72	59	63	62	57	66	51	43	62	60	78	70	62
S	PERCENT POSSIBLE SUNSHINE													
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG (VISBY ≤ 1/4 MI)	1	3	1	1	1	2	0	0	0	0	3	0	12
	THUNDERSTORMS	2	3	12	7	5	9	7	8	7	1	3	2	66
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	MIDNIGHT-MIDNIGHT: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	NUMBER OF DAYS WITH:													
	CLEAR													
	PARTLY CLOUDY													
	CLOUDY													
PR	MEAN STATION PRESS. (IN.)	29.87	29.87	29.72	29.72	29.68	29.74	29.68	29.71	29.66	29.87	29.77	29.92	29.77
	MEAN SEA-LEVEL PRESS. (IN.)		30.19	30.03	30.02	29.98	30.04	29.98	30.01	29.97		30.08	30.25	
WINDS	RESULTANT SPEED (MPH)	1.1	1.5	0.3	0.2	0.3	0.6	0.9	0.7	2.1	1.5	0.9	2.2	0.6
	RES. DIR. (TENS OF DEGS.)	01	16	07	24	31	24	34	33	05	03	07	36	02
	MEAN SPEED (MPH)	7.0	6.3	6.1	6.0	6.0	4.4	4.0	4.3	6.1	3.9	5.2	6.5	5.5
	PREVAIL.DIR.(TENS OF DEGS.)	17	16	16	15	16	15	35	16	36	15	15	34	16
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)	23	28	33	25	26	29	25	33	28	23	29	30	33
	DIR. (TENS OF DEGS.)	32	15	34	36	02	17	30	04	14	01	26	27	04
	DATE OF OCCURRENCE	04	26	10	08	27	17	22	09	21	07+	08+	16	AUG 09
	MAXIMUM 5-SECOND WIND:													
	SPEED (MPH)	29	33	47	31	31	38	35	44	36	30	39	44	47
	DIR. (TENS OF DEGS.)	32	15	33	01	02	17	29	02	13	02	27	24	33
	DATE OF OCCURRENCE	20+	26	10	08+	27	17	22	09	21	06	08	16	MAR 10
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	1.88	1.29	4.41	7.82	2.67	5.82	1.86	0.26	3.50	1.46	7.75	3.87	42.59
	GREATEST 24-HOUR (IN.)	0.46	0.61	2.01	5.01	1.50	2.09	1.07	0.14	1.93	1.45	3.77	1.82	5.01
	DATE OF OCCURRENCE	03	26	10-11	02-03	20	17	27	10-11	11-12	06	08-09	27-28	APR 02-03
	NUMBER OF DAYS WITH:													
	PRECIPITATION ≥ 0.01	9	3	13	11	6	13	6	5	10	2	15	10	103
	PRECIPITATION ≥ 0.10	6	3	11	7	6	8	2	1	6	1	9	5	65
	PRECIPITATION ≥ 1.00	0	0	1	2	1	2	1	0	1	1	2	2	13
SNOWFALL	SNOW, ICE PELLETS, HAIL:													
	TOTAL (IN.)	0.4	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T	1.0	1.4
	GREATEST 24-HOUR (IN.)	0.4	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T	1.0	1.0
	DATE OF OCCURRENCE	27			03							18	31	DEC 31
	MAXIMUM SNOW DEPTH (IN.)	T	0	0	0	0	0	0	0	0	0	0	1	1
	DATE OF OCCURRENCE	27											31	DEC 31
	NUMBER OF DAYS WITH:													
	SNOWFALL ≥ 1.0	0	0	0	0	0	0	0	0	0	0	0	1	1

A VERY MODEST SURVEY REPORT

Ouachita River Survey Report

The subsegment 080101 of the Ouachita River is approximately 102.0 miles long and flows from the Arkansas state line south to the Columbia Lock and Dam. The watershed for this subsegment drains an extensive area of land used for agriculture, with some drainage coming from industry, municipal point sources, and other non-point sources.

The Watershed Surveys group conducted this survey on July 18, 2001. Water quality samples were taken at seven sites along the main stem of the Ouachita River, at three major tributaries, and at four major dischargers. Bayou de l'Outre, Bayou d'Arbonne, Cypress Creek, and the Town of Sterlington was discarded as sites due to there being no flow. In-situ runs were conducted to detect changes in water quality parameters upstream, near, and downstream of Entergy-Sterlington Generating Plant, and Entergy-Monroe Generating Plant. Seven continuous monitors were deployed along the main stem of the Ouachita River to record water quality parameters through most of the survey. Three discharge measurements were taken along the main stem of the Ouachita River (sites OR1, OR5, & OR10), and on three major tributaries (sites OR11, OR14, & OR15). Six representative cross-sections were taken along the main stem of the Ouachita River. All field notes are included with this report as well as lab data. All cross-sectional sheets, water quality, and continuous monitor data and log reports are available on the watershed shared network.

The Watershed Surveys group did not encounter any major problems while conducting the survey. One minor problems which did occur was taking a flow measurement for Bayou Bartholomew (site OR11) near the LA Hwy 592 bridge due to there being no measurable flow at the water quality site.

Water quality samples for Riverwood International West (site OR21) were taken in Tributary #12, with no flow recorded. Flows for Riverwood International West, Entergy-Sterlington Generating Plant, and Entergy-Monroe Generating Plant will be obtained at a later date. The following major dischargers were sampled and their corresponding flows entered on water quality data sheets:

Monroe POTW (OR17): 7.04mgd
Angus Chemical (OR18): 0.5184mgd
Koch Nitrogen (OR19): 0.9582mgd

USGS STATE LINE FLOW DATA

OUACHITA RIVER FLOW DATA FROM USGS
State line slope gauge
Contact: Burl Goree Phone: 318-251-9630

YEAR	MONTH	DAY	DISCH
2001	6	18	Flood
2001	6	19	Flood
2001	6	20	7560
2001	6	21	6120
2001	6	22	6580
2001	6	23	5350
2001	6	24	5310
2001	6	25	4540
2001	6	26	3350
2001	6	27	2750
2001	6	28	2650
2001	6	29	4110
2001	6	30	5380
2001	7	1	6760
2001	7	2	7520
2001	7	3	6690
2001	7	4	5070
2001	7	5	5290
2001	7	6	5180
2001	7	7	4140
2001	7	8	3880
2001	7	9	5040
2001	7	10	4480
2001	7	11	3750
2001	7	12	2910
2001	7	13	2900
2001	7	14	3140
2001	7	15	2800
2001	7	16	3220
2001	7	17	2310
2001	7	18	1870
2001	7	19	1830

APPENDIX P – HYDROLOGY

HEC-2 INPUT FILE

```
C
C     15
C   .200     ACME, LA. GAGE
C 25.120     JONESVILLE,LA. L&D
C 40.580     JONESVILLE,LA. GAGE
C 65.700     STAFFORD POINT,LA. GAGE
C 117.38        COLUMBIA L&D
C 167.52        GAGE AT MONROE,LA.
C 191.24        STERLINGTON,LA. GAGE
C 208.30        ALABAMA LANDING
C 227.10        L&D 6 / FELSENTHAL L&D
C 237.15        CROSSETT,ARK.
C 272.00       MONO BAY,ARK.
C 283.80       L&D 8 /CALION L&D
C 291.92       NEAR CALION,ARK.
C 333.00       NEAR CAMDEN,ARK.
C 338.40       AT CAMDEN,ARK.
T1      OUACHITA RIVER – DISCHARGES AND FLOOD CALIBRATIONS
T2      ST.LOUIS DISTRICT COE FEB 1975 100’ LEVEE, 3000’ NO LEVEE
T3      DISCHARGE PROFILES AT VARIOUS LOW FLOWS
J1   -10       2                                                  15.29
J2    1.             -1.
J3    38      43       1      25       4       8      39      26       6      68
J3    17
J5   -10     -10
NC  .040    .040    .036      .1      .3
QT     5     648    1080    1800    3000    5000
X1   .00     45.   10074   10857
X3    10
GR  74.3  9896.0    54.3  9898.0    49.3  9998.0    45.4 10015.0    45.5 10039.0
GR  44.1 10050.0    43.2 10074.0    27.6 10095.0    15.8 10123.0    13.9 10130.0
GR  12.9 10149.0    14.9 10169.0    -9.2 10209.0   -11.1 10229.0   -12.1 10248.0
GR -16.2 10288.0   -20.0 10308.0   -25.1 10329.0   -31.3 10369.0   -32.2 10389.0
GR -38.1 10449.0   -42.0 10468.0   -44.3 10488.0   -41.2 10509.0   -36.9 10522.0
GR -35.3 10528.0   -38.2 10549.0   -36.0 10588.0   -32.1 10609.0   -23.1 10628.0
GR -17.2 10648.0   -14.1 10668.0   -13.2 10688.0   -10.0 10709.0     7.8 10748.0
GR  11.9 10768.0    15.8 10776.0    21.5 10804.0    28.9 10843.0    32.5 10855.0
GR  40.6 10857.0    40.6 10890.0    40.6 10900.0    45.6 13900.0    65.6 13902.0
X1   .20     40.   10085   10811    1056    1056    1056
X3    10
GR  70.2  9898.0    50.2  9900.0    45.2 10000.0    45.2 10050.0    45.2 10072.0
GR  45.2 10085.0    40.1 10095.0    30.4 10102.0    19.6 10110.0    15.8 10129.0
GR  11.9 10141.0     7.8 10160.0     3.8 10180.0    -5.2 10220.0    -7.1 10240.0
GR  -6.1 10260.0    -6.1 10320.0    -4.0 10360.0    -4.1 10420.0    -3.2 10439.0
GR  -3.1 10479.0    -1.0 10499.0    -1.1 10539.0     0.0 10559.0     0.0 10598.0
GR   2.0 10638.0     1.9 10658.0     4.9 10677.0     9.0 10698.0    14.9 10738.0
GR  22.5 10773.0    27.7 10788.0    34.1 10802.0    35.9 10811.0    35.9 10848.0
GR  35.9 10895.0    35.9 10912.0    35.9 10931.0    40.9 13931.0    60.9 13933.0
X1   .40     33.   10106   10875    1056    1056    1056
X3    10
GR  72.4  9898.0    52.4  9900.0    47.4 10000.0    47.4 10044.0    47.4 10078.0
GR  47.4 10094.0    47.4 10103.0    47.4 10106.0    33.3 10123.0    24.6 10133.0
GR  12.0 10161.0    -3.2 10201.0    -7.0 10220.0    -9.9 10240.0   -11.1 10261.0
GR  -9.1 10300.0    -9.2 10320.0    -7.3 10340.0    -7.2 10380.0    -6.1 10399.0
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GR  -6.1 10438.0      .8 10579.0      .8 10598.0     4.9 10677.0     7.7 10698.0
GR  15.6 10742.0    24.3 10775.0    35.0 10834.0    41.0 10875.0    41.1 10900.0
GR  41.0 10930.0    46.0 13930.0    66.0 13932.0
X1   .60     50.   10190   10948    1056    1056    1056
X3    10
GR  74.5  9872.0    54.5  9874.0    49.5  9974.0    49.5 10000.0    49.5 10030.0
GR  49.5 10049.0    49.5 10065.0    49.5 10099.0    49.5 10107.0    49.5 10116.0
GR  49.5 10124.0    49.5 10190.0    40.3 10200.0    30.3 10219.0    24.2 10236.0
GR  16.0 10252.0    12.7 10260.0     7.1 10279.0      .1 10299.0    -3.1 10319.0
GR  -5.0 10339.0   -13.0 10359.0   -12.9 10380.0    -7.9 10399.0    -8.8 10419.0
GR  -7.9 10439.0    -7.9 10459.0    -6.9 10479.0    -6.9 10499.0    -4.8 10539.0
GR  -4.7 10560.0    -2.9 10599.0    -2.7 10619.0      .3 10674.0      .2 10739.0
GR   2.2 10757.0     3.3 10779.0     5.4 10798.0     8.3 10819.0    12.4 10838.0
GR  15.3 10858.0    16.4 10862.0    23.0 10894.0    27.9 10908.0    32.8 10920.0
GR  40.2 10948.0    40.2 10998.0    40.2 11039.0    45.2 14039.0    65.2 14041.0
X1   .80     52.   10193   10956    1056    1056    1056
X3    10
GR  74.1  9926.0    54.1  9928.0    49.1 10028.0    49.1 10052.0    49.1 10095.0
GR  49.1 10126.0    49.1 10152.0    49.1 10163.0    49.3 10173.0    49.1 10193.0
GR  43.5 10202.0    38.3 10230.0    29.5 10239.0    25.0 10247.0    18.9 10262.0
GR  13.2 10273.0     7.3 10292.0     -.7 10332.0    -9.6 10351.0   -11.9 10371.0
GR  -9.7 10392.0    -8.7 10412.0    -8.8 10452.0    -6.8 10489.0    -6.9 10512.0
GR  -5.9 10533.0    -5.9 10591.0    -3.8 10631.0    -3.9 10651.0    -2.0 10671.0
GR  -1.9 10691.0      .2 10712.0     1.1 10731.0     3.0 10751.0     3.1 10770.0
GR   4.0 10791.0     6.9 10811.0    10.9 10830.0    16.0 10865.0    21.8 10888.0
GR  27.1 10902.0    30.3 10909.0    36.2 10924.0    39.2 10936.0    42.2 10956.0
GR  42.2 10977.0    42.2 10992.0    42.2 11006.0    42.2 11021.0    42.6 11052.0
GR  47.6 14052.0    67.6 14054.0
X1  1.00     51.   10148   10878    1056    1056    1056
X3    10
GR  75.2  9922.0    55.2  9924.0    50.2 10024.0    50.2 10052.0    50.2 10090.0
GR  50.2 10116.0    50.2 10123.0    50.3 10133.0    50.2 10148.0    40.3 10166.0
GR  32.4 10183.0    26.0 10200.0    16.1 10237.0    11.1 10251.0     8.1 10271.0
GR   4.3 10292.0    -9.5 10332.0   -10.6 10351.0   -10.8 10391.0    -8.7 10411.0
GR  -9.7 10431.0    -9.6 10451.0    -8.5 10474.0    -8.6 10491.0    -9.8 10511.0
GR  -8.7 10531.0    -8.8 10550.0    -9.8 10571.0    -7.8 10591.0    -6.8 10611.0
GR  -6.7 10631.0    -1.8 10651.0     1.1 10671.0     -.9 10690.0     3.0 10730.0
GR   6.0 10751.0    10.9 10771.0    14.8 10791.0    23.0 10820.0    28.8 10843.0
GR  34.0 10857.0    38.1 10878.0    38.9 10895.0    38.1 10920.0    38.1 10932.0
GR  40.5 10944.0    47.0 10976.0    48.1 11003.0    48.7 11027.0    53.7 14027.0
GR  73.7 14029.0
X1  1.40     45. 10244.0 10884.0    2112    2112    2112
X3    10
GR  75.4  9900.0    55.4  9902.0    50.4 10002.0    50.4 10052.0    50.4 10102.0
GR  50.4 10136.0    50.9 10158.0    50.4 10244.0    42.7 10258.0    36.8 10276.0
GR  23.6 10327.0    16.1 10360.0    11.8 10380.0     4.1 10400.0    -1.1 10420.0
GR -10.9 10460.0   -12.0 10480.0   -11.9 10520.0   -10.9 10541.0   -11.0 10560.0
GR  -9.9 10580.0    -9.9 10602.0    -7.0 10661.0    -7.0 10680.0    -3.0 10699.0
GR   1.9 10720.0     3.1 10742.0     5.0 10761.0     4.8 10780.0     5.8 10800.0
GR  11.9 10820.0    15.8 10841.0    17.0 10841.1    22.9 10856.0    28.3 10869.0
GR  31.2 10884.0    31.2 10900.0    36.1 10951.0    37.1 10971.0    35.8 10995.0
GR  41.0 11024.0    48.0 11057.0    47.6 11172.0    52.6 14172.0    72.6 14174.0
X1  1.60     45.   10170   10792    1056    1056    1056
X3    10
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GR  75.3  9905.0    55.3  9907.0    50.3 10007.0    50.3 10052.0    50.3 10088.0
GR  50.3 10111.0    50.3 10170.0    45.3 10173.0    34.3 10187.0    16.0 10211.0
GR   0.0 10251.0    -6.0 10272.0   -10.8 10290.0   -16.8 10310.0   -18.8 10331.0
GR -14.9 10350.0   -11.8 10371.0    -9.9 10391.0    -9.9 10411.0    -8.8 10431.0
GR  -8.9 10451.0    -6.9 10470.0    -3.9 10530.0    -4.0 10550.0      .1 10591.0
GR    .9 10611.0     2.9 10631.0     4.0 10651.0     6.0 10672.0     7.0 10691.0
GR   8.8 10710.0    16.9 10747.0    25.1 10792.0    26.1 10817.0    28.5 10838.0
GR  33.1 10869.0    38.3 10897.0    42.2 10915.0    42.1 10930.0    39.8 10951.0
GR  41.0 11000.0    38.0 11041.0    46.6 11117.0    51.6 14117.0    71.6 14119.0
X1  1.80     42.   10014   10670    1056    1056    1056
X3    10
GR  75.3  9876.0    55.3  9878.0    50.3  9978.0    49.9 10005.0    49.1 10014.0
GR  38.1 10033.0    31.5 10035.0    24.8 10050.0    16.8 10071.0     3.7 10101.0
GR  -1.1 10120.0   -12.0 10139.0   -15.9 10180.0   -20.1 10219.0   -18.9 10241.0
GR -14.9 10280.0   -13.8 10301.0   -13.8 10321.0   -11.9 10340.0    -7.0 10360.0
GR  -5.9 10380.0    -3.9 10401.0    -2.8 10420.0    -2.0 10440.0     0.0 10460.0
GR   1.1 10480.0     3.0 10500.0     4.0 10521.0     8.1 10560.0    12.0 10600.0
GR  25.5 10670.0    28.5 10730.0    33.4 10779.0    33.9 10800.0    43.4 10901.0
GR  39.4 10938.0    35.8 10981.0    43.2 11052.0    45.0 11075.0    47.3 11099.0
GR  52.3 14099.0    72.3 14101.0
X1  1.98     46.   10027   10622     950     950     950
X3    10
GR  77.5  9716.0    57.5  9718.0    52.5  9818.0    51.4  9843.0    49.0  9853.0
GR  48.8  9863.0    49.9  9869.0    49.6  9952.0    49.2 10003.0    48.8 10027.0
GR  40.6 10046.0    24.1 10068.0     5.5 10101.0    -4.5 10111.0    -9.6 10142.0
GR -19.4 10181.0   -18.3 10201.0   -21.2 10221.0   -19.3 10241.0   -18.0 10261.0
GR -14.3 10281.0   -11.4 10301.0    -8.2 10321.0      .6 10380.0     1.7 10401.0
GR  11.7 10500.0    13.5 10520.0    16.5 10540.0    18.2 10581.0    22.2 10600.0
GR  26.6 10622.0    27.9 10650.0    31.0 10691.0    32.4 10700.0    35.0 10722.0
GR  36.9 10750.0    42.3 10800.0    44.6 10815.0    41.8 10868.0    38.9 10882.0
GR  38.5 10918.0    46.5 10998.0    46.9 11047.0    45.9 11100.0    50.9 14100.0
GR  70.9 14102.0
X1  2.16     42.   10144   10868     950     950     950
X3    10
GR  74.1  9796.0    54.1  9798.0    49.1  9898.0    49.9  9918.0    49.1 10049.0
GR  47.4 10070.0    42.4 10099.0    35.3 10122.0    32.7 10137.0    32.7 10144.0
GR  22.8 10150.0     4.0 10179.0    -2.8 10199.0   -11.9 10220.0   -20.9 10280.0
GR -21.8 10300.0   -19.8 10340.0   -15.8 10359.0    -9.9 10379.0    -5.7 10401.0
GR  -2.8 10420.0     1.3 10460.0     3.1 10500.0     4.3 10520.0     6.5 10540.0
GR   7.3 10560.0     7.1 10580.0     8.2 10599.0    12.3 10641.0    17.9 10750.0
GR  23.0 10779.0    27.0 10809.0    38.9 10846.0    44.5 10868.0    44.5 10899.0
GR  44.5 10950.0    44.5 10999.0    44.5 11051.0    44.5 11076.0    45.7 11102.0
GR  50.7 14102.0    70.7 14104.0
X1  2.34     48.   10153   10800     950     950     950
X3    10
GR  75.6  9771.0    55.6  9773.0    50.6  9873.0    46.8  9909.0    46.6  9983.0
GR  47.6  9988.0    46.3 10000.0    46.2 10043.0    39.8 10100.0    38.1 10120.0
GR  35.2 10129.0    32.2 10153.0    25.0 10175.0    17.0 10215.0    10.2 10240.0
GR   7.9 10259.0     2.1 10299.0    -3.8 10320.0    -6.7 10340.0    -8.9 10358.0
GR  -9.9 10379.0   -12.0 10400.0   -15.8 10419.0   -17.0 10439.0   -13.8 10459.0
GR -11.8 10479.0    -5.9 10519.0    -4.9 10538.0    -1.7 10558.0    -2.0 10579.0
GR    .2 10598.0     1.2 10618.0     3.1 10638.0     5.1 10678.0    10.2 10698.0
GR  12.2 10737.0    17.0 10745.0    21.5 10777.0    31.5 10800.0    37.0 10825.0
GR  39.8 10847.0    40.4 10869.0    40.6 10897.0    46.7 10917.0    48.6 10947.0
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GR  46.0 10998.0    51.0 13998.0    71.0 14000.0
X1  2.52     36.   10168   10777     950     950     950
X3    10
GR  61.1  9872.0    41.1  9874.0    36.1  9974.0    34.5 10000.0    34.6 10052.0
GR  36.2 10093.0    34.3 10111.0    36.5 10128.0    34.4 10138.0    34.3 10168.0
GR  25.3 10196.0    18.9 10213.0    12.0 10241.0     6.2 10301.0     4.8 10321.0
GR   2.1 10339.0    -5.8 10360.0    -6.8 10380.0    -5.8 10400.0    -6.7 10420.0
GR  -7.1 10540.0    -5.8 10561.0    -6.0 10660.0     1.1 10680.0     4.9 10699.0
GR   9.5 10719.0    23.8 10751.0    28.0 10760.0    39.2 10777.0    39.2 10791.0
GR  43.7 10819.0    43.4 10837.0    48.8 10847.0    49.1 10902.0    54.1 13902.0
GR  74.1 13904.0
X1  2.70     46.    9994   10844     950     950     950
X3    10
GR  67.3  9773.0    47.3  9775.0    42.3  9875.0    49.7  9899.0    49.8  9906.0
GR  40.4  9944.0    40.4  9994.0    39.4 10000.0    29.7 10034.0    24.6 10065.0
GR  17.2 10128.0    13.1 10140.0    10.1 10159.0    10.2 10179.0     7.1 10200.0
GR   5.1 10239.0     5.2 10260.0     -.9 10379.0    -6.7 10398.0    -9.0 10439.0
GR  -8.9 10520.0    -8.0 10539.0    -3.9 10560.0    -3.9 10619.0    -4.9 10637.0
GR  -4.8 10658.0    -2.8 10678.0      .2 10698.0     5.2 10718.0    13.2 10759.0
GR  16.3 10779.0    18.7 10797.0    33.0 10813.0    37.3 10824.0    49.2 10844.0
GR  49.2 10897.0    49.3 10948.0    49.2 10972.0    49.2 10979.0    50.4 10991.0
GR  50.8 10997.0    49.9 11008.0    49.2 11017.0    49.2 11023.0    54.2 14023.0
GR  74.2 14025.0
X1  2.88     42. 10079.0 10956.0     950     950     950
X3    10
GR  67.5  9882.0    47.5  9884.0    42.5  9984.0    48.9 10002.0    41.1 10029.0
GR  40.9 10079.0    36.5 10102.0    28.2 10152.0    23.6 10202.0    16.9 10250.0
GR  15.9 10263.0    12.0 10282.0     6.1 10401.0     4.2 10420.0     1.2 10481.0
GR   -.9 10501.0    -1.8 10521.0    -7.8 10541.0    -8.9 10562.0    -8.8 10661.0
GR  -7.9 10681.0    -5.9 10701.0    -3.9 10740.0    -1.9 10761.0     -.9 10780.0
GR   5.1 10819.0    10.9 10839.0    15.9 10860.0    16.9 10860.1    20.9 10872.0
GR  23.0 10892.0    24.5 10919.0    37.1 10933.0    49.7 10956.0    49.8 10962.0
GR  49.7 11001.0    49.7 11050.0    49.7 11131.0    49.7 11136.0    49.7 11151.0
GR  54.7 14151.0    74.7 14153.0
X1  3.06     41.   10200   10963     950     950     950
X3    10
GR  74.6  9878.0    54.6  9880.0    49.6  9980.0    48.7 10000.0    41.6 10055.0
GR  37.3 10101.0    30.9 10150.0    27.1 10200.0    25.0 10208.0    21.1 10243.0
GR  18.3 10274.0    11.9 10320.0    11.0 10341.0    10.9 10361.0     7.7 10420.0
GR   6.0 10440.0     5.0 10461.0     3.0 10480.0      .9 10520.0     0.0 10540.0
GR  -1.9 10560.0    -9.0 10600.0    -8.9 10681.0    -9.9 10700.0    -8.9 10720.0
GR  -8.9 10780.0    -5.9 10821.0     -.1 10840.0     9.0 10860.0    16.1 10880.0
GR  23.8 10922.0    37.2 10953.0    48.3 10963.0    49.7 10968.0    48.3 11114.0
GR  48.3 11133.0    49.6 11141.0    50.8 11154.0    48.7 11175.0    53.7 14175.0
GR  73.7 14177.0
X1  3.24     34.   10004   10748     950     950     950
X3    10
GR  53.4  9862.0    33.4  9864.0    28.4  9964.0    27.0  9993.0    26.8 10004.0
GR  17.0 10043.0    12.9 10069.0    10.9 10090.0    10.9 10111.0     9.0 10149.0
GR   8.9 10169.0     8.0 10189.0     8.0 10210.0     3.9 10289.0     4.0 10309.0
GR   2.0 10349.0     -.1 10369.0    -2.2 10408.0    -3.1 10428.0    -3.3 10449.0
GR  -9.0 10488.0    -9.1 10587.0    -7.2 10627.0    -3.1 10669.0     3.1 10689.0
GR  17.2 10719.0    23.3 10736.0    36.4 10748.0    37.3 10771.0    49.2 10790.0
GR  48.6 10798.0    46.9 10849.0    51.9 13849.0    71.9 13851.0
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X1  3.42     37.   10028   10775     950     950     950
X3    10
GR  55.2  9884.0    35.2  9886.0    30.2  9986.0    27.7 10002.0    26.2 10028.0
GR  23.3 10035.0    18.6 10051.0    13.9 10080.0    10.9 10100.0     9.9 10120.0
GR   9.8 10140.0     7.9 10179.0     7.9 10200.0     3.8 10278.0     3.9 10299.0
GR   3.0 10319.0     2.9 10340.0     -.1 10400.0     -.1 10459.0    -8.2 10479.0
GR  -9.2 10498.0    -9.0 10598.0    -6.2 10619.0    -6.0 10639.0    -4.0 10678.0
GR  -1.1 10698.0     8.0 10717.0    12.0 10737.0    24.5 10775.0    25.2 10798.0
GR  26.2 10810.0    33.9 10812.0    50.3 10849.0    49.6 10899.0    49.8 10932.0
GR  54.8 13932.0    74.8 13934.0
X1  3.60     38.   10068   10863     950     950     950
X3    10
GR  65.6  9881.0    45.6  9883.0    40.6  9983.0    40.6 10010.0    40.6 10060.0
GR  40.6 10068.0    30.6 10105.0    23.5 10134.0    16.9 10150.0    13.1 10171.0
GR   7.9 10191.0     6.9 10211.0     7.0 10230.0     4.9 10270.0     4.9 10290.0
GR   3.8 10310.0     1.9 10329.0     1.8 10350.0      .9 10369.0      .9 10390.0
GR  -4.3 10489.0    -9.1 10529.0   -10.2 10548.0   -10.1 10629.0    -8.1 10648.0
GR  -8.2 10667.0    -7.1 10688.0    -3.2 10707.0      .8 10728.0     7.2 10749.0
GR  16.9 10780.0    21.0 10791.0    24.2 10812.0    37.2 10840.0    48.3 10863.0
GR  49.2 10901.0    54.2 13901.0    74.2 13903.0
X1  3.70     48.   10122   10847     528     528     528
X3    10
GR  66.2  9893.0    46.2  9895.0    41.2  9995.0    42.0 10019.0    50.3 10036.0
GR  49.9 10042.0    44.8 10051.0    40.9 10062.0    40.4 10067.0    40.2 10085.0
GR  42.0 10095.0    37.2 10122.0    32.0 10133.0    24.8 10150.0    21.3 10162.0
GR  16.8 10179.0    12.9 10189.0     7.7 10210.0     6.0 10230.0     4.8 10249.0
GR   5.0 10269.0     3.9 10289.0     3.8 10309.0     3.0 10329.0     3.0 10349.0
GR  -1.0 10429.0    -3.1 10449.0    -8.0 10469.0    -9.2 10487.0    -9.2 10549.0
GR -10.0 10568.0   -10.1 10588.0    -8.0 10608.0    -8.1 10648.0   -11.2 10667.0
GR -11.1 10688.0    -8.1 10708.0     3.9 10727.0     9.1 10748.0    16.9 10787.0
GR  18.2 10788.0    25.4 10813.0    37.7 10830.0    49.2 10847.0    49.2 10900.0
GR  49.2 10928.0    54.2 13928.0    74.2 13930.0
X1  3.80     49.   10065   10847     528     528     528
X3    10
GR  76.0  9794.0    56.0  9796.0    51.0  9896.0    49.2  9961.0    44.5  9970.0
GR  42.5  9987.0    42.5 10024.0    42.7 10053.0    42.5 10065.0    38.6 10080.0
GR  28.5 10109.0    21.2 10135.0    17.0 10143.0    16.0 10149.0     8.0 10189.0
GR   5.0 10249.0     5.1 10269.0     1.1 10349.0     1.0 10388.0     -.9 10408.0
GR  -2.9 10449.0    -5.1 10469.0    -7.9 10488.0    -8.9 10508.0    -8.8 10629.0
GR  -6.6 10648.0    -7.8 10668.0    -3.5 10708.0     6.2 10747.0    14.3 10768.0
GR  17.3 10788.0    23.0 10801.0    31.5 10826.0    41.4 10835.0    49.2 10847.0
GR  49.5 10852.0    49.2 10897.0    50.8 10997.0    50.5 11013.0    49.2 11021.0
GR  51.6 11030.0    52.4 11040.0    52.3 11046.0    51.8 11053.0    49.2 11065.0
GR  49.9 11073.0    50.4 11087.0    55.4 14087.0    75.4 14089.0
X1  4.00     35.   10113   10928    1056    1056    1056
X3    10
GR  67.8  9898.0    47.8  9900.0    42.8 10000.0    42.7 10053.0    42.7 10103.0
GR  42.7 10113.0    37.5 10133.0    32.3 10140.0    24.5 10162.0     6.0 10262.0
GR   3.8 10302.0     3.6 10322.0     2.7 10342.0     2.8 10361.0      .8 10402.0
GR    .8 10441.0    -2.0 10501.0    -2.1 10522.0    -3.1 10542.0    -6.0 10562.0
GR  -6.0 10567.0    -7.0 10582.0    -3.0 10620.0    -3.0 10662.0     -.1 10720.0
GR  -1.0 10741.0     4.2 10761.0     7.0 10800.0    17.9 10842.0    27.1 10881.0
GR  32.4 10891.0    39.8 10899.0    52.2 10928.0    57.2 13928.0    77.2 13930.0
X1  4.20     34.   10072   10876    1056    1056    1056
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X3    10
GR  65.5  9869.0    45.5  9871.0    40.5  9971.0    40.4 10000.0    40.4 10050.0
GR  40.4 10072.0    37.9 10090.0    32.3 10104.0    24.0 10120.0     6.0 10200.0
GR   4.0 10219.0     3.9 10259.0     1.0 10299.0     2.0 10320.0     1.9 10340.0
GR    .1 10375.0     -.1 10399.0    -1.0 10419.0    -3.1 10438.0    -3.8 10458.0
GR  -7.1 10479.0    -8.2 10498.0    -8.1 10559.0    -9.9 10599.0    -5.1 10618.0
GR  -1.1 10678.0     2.0 10698.0     4.0 10737.0    14.9 10797.0    20.0 10817.0
GR  32.2 10836.0    50.4 10876.0    55.4 13876.0    75.4 13878.0
X1  4.40     39. 10104.0 10925.0    1056    1056    1056
X3    10
GR  68.2  9900.0    48.2  9902.0    43.2 10002.0    43.2 10053.0    43.2 10104.0
GR  33.7 10129.0    32.3 10129.1    16.3 10182.0     8.2 10222.0     6.0 10244.0
GR   5.0 10262.0     4.9 10302.0     4.1 10322.0    -2.2 10362.0    -8.1 10422.0
GR  -7.0 10442.0    -8.0 10461.0    -8.1 10482.0    -6.2 10501.0    -6.0 10542.0
GR  -5.0 10561.0    -6.0 10581.0    -5.0 10601.0    -5.1 10622.0    -3.9 10642.0
GR  -2.0 10660.0     -.9 10680.0    -1.0 10700.0     2.1 10720.0     5.0 10761.0
GR  11.0 10800.0    17.0 10820.0    19.0 10840.0    32.5 10879.0    38.5 10900.0
GR  53.1 10925.0    53.1 10952.0    58.1 13952.0    78.1 13954.0
X1  4.60     39.   10074   10932    1056    1056    1056
X3    10
GR  70.2  9898.0    50.2  9900.0    45.2 10000.0    44.0 10052.0    41.3 10074.0
GR  34.3 10092.0    32.1 10132.0    25.0 10152.0    18.7 10171.0    13.7 10191.0
GR  10.8 10211.0     8.9 10231.0     6.8 10250.0     2.9 10271.0     2.8 10331.0
GR    .8 10352.0     -.2 10370.0     0.0 10450.0    -2.1 10470.0     -.2 10491.0
GR  -4.3 10570.0    -8.1 10590.0    -6.1 10630.0    -6.2 10650.0    -7.1 10669.0
GR  -5.0 10709.0    -1.0 10729.0     4.9 10768.0     7.0 10788.0    10.0 10808.0
GR  14.8 10828.0    20.8 10848.0    23.0 10868.0    26.9 10888.0    28.1 10910.0
GR  44.6 10924.0    47.5 10932.0    52.5 13932.0    72.5 13934.0
X1  4.80     50.   10120   10936    1056    1056    1056
X3    10
GR  69.7  9849.0    49.7  9851.0    44.7  9951.0    46.3 10001.0    46.0 10040.0
GR  40.4 10050.0    39.5 10065.0    41.4 10103.0    39.4 10120.0    32.3 10143.0
GR  22.9 10160.0    15.9 10180.0    11.0 10199.0     7.0 10219.0     4.0 10240.0
GR   1.9 10260.0     1.9 10280.0      .8 10300.0      .9 10319.0     2.0 10340.0
GR   2.0 10360.0     0.0 10380.0     0.0 10421.0    -2.1 10460.0    -2.0 10480.0
GR  -4.2 10521.0    -7.0 10560.0    -8.9 10600.0    -5.0 10680.0    -5.1 10700.0
GR  -3.0 10739.0     1.0 10759.0     3.9 10780.0     8.9 10799.0    16.0 10820.0
GR  20.9 10841.0    22.9 10880.0    25.9 10900.0    32.3 10916.0    37.1 10920.0
GR  39.0 10930.0    50.0 10936.0    50.3 10947.0    50.0 10988.0    50.7 10997.0
GR  51.2 11012.0    50.7 11021.0    50.0 11027.0    55.0 14027.0    75.0 14029.0
X1  5.00     41.   10112   10935    1056    1056    1056
X3    10
GR  63.9  9908.0    43.9  9910.0    38.9 10010.0    39.3 10053.0    38.9 10102.0
GR  38.9 10112.0    32.2 10142.0    25.9 10151.0    14.7 10192.0    12.0 10212.0
GR   5.9 10232.0     2.8 10272.0     3.9 10293.0     1.7 10312.0     1.9 10352.0
GR   -.2 10392.0     0.0 10412.0    -2.1 10432.0    -2.0 10453.0    -3.1 10472.0
GR  -2.3 10492.0    -2.2 10512.0    -6.0 10591.0    -9.3 10612.0    -8.2 10631.0
GR  -8.3 10651.0    -5.8 10690.0    -6.0 10710.0    -8.2 10732.0    -5.9 10751.0
GR  -3.0 10770.0    11.2 10811.0    17.1 10830.0    21.2 10849.0    23.0 10891.0
GR  29.9 10909.0    32.4 10914.0    35.9 10922.0    49.7 10935.0    54.7 13935.0
GR  74.7 13937.0
X1  5.20     39.   10121   10837    1056    1056    1056
X3    10
GR  65.7  9949.0    45.7  9951.0    40.7 10051.0    42.3 10101.0    39.9 10121.0
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GR  34.1 10135.0    29.9 10140.0    13.8 10179.0     8.0 10220.0     3.1 10259.0
GR   1.9 10279.0     1.8 10299.0      .1 10338.0    -2.0 10359.0    -1.8 10379.0
GR  -3.0 10398.0    -3.1 10419.0    -4.0 10438.0    -4.0 10458.0    -5.1 10478.0
GR  -5.1 10498.0    -6.0 10518.0    -8.1 10538.0    -8.0 10558.0   -10.1 10578.0
GR -10.0 10598.0   -12.1 10637.0   -10.9 10657.0    -8.1 10677.0    12.6 10736.0
GR  28.0 10776.0    32.3 10793.0    43.7 10824.0    51.3 10837.0    51.3 10847.0
GR  51.3 10865.0    51.9 10885.0    56.9 13885.0    76.9 13887.0
X1  5.40     38.   10127   10770    1056    1056    1056
X3    10
GR  66.3  9924.0    46.3  9926.0    41.3 10026.0    40.2 10052.0    38.1 10101.0
GR  38.1 10127.0    36.3 10141.0    10.9 10191.0     9.0 10212.0     2.7 10233.0
GR  -3.2 10272.0    -5.3 10311.0    -5.3 10331.0    -6.2 10351.0    -5.2 10371.0
GR  -5.3 10391.0    -7.1 10412.0    -8.1 10432.0    -8.1 10452.0   -10.6 10491.0
GR -10.7 10511.0    -9.1 10532.0    -6.2 10550.0    -5.0 10572.0    -3.0 10591.0
GR   0.0 10610.0    -4.9 10632.0     1.0 10651.0      .1 10671.0    14.9 10711.0
GR  20.9 10730.0    32.5 10748.0    35.1 10750.0    47.8 10770.0    49.3 10800.0
GR  47.8 10851.0    52.8 13851.0    72.8 13853.0
X1  5.60     40.   10153   10844    1056    1056    1056
X3    10
GR  72.8  9877.0    52.8  9879.0    47.8  9979.0    48.4 10001.0    48.3 10023.0
GR  40.3 10053.0    38.7 10102.0    38.7 10153.0    33.4 10202.0    29.0 10221.0
GR  29.2 10242.0    24.1 10263.0    15.4 10281.0    10.1 10302.0     2.9 10321.0
GR  -6.1 10382.0    -8.0 10402.0    -7.8 10422.0   -10.2 10442.0   -12.2 10462.0
GR -13.1 10482.0   -15.1 10500.0   -16.1 10522.0   -20.1 10541.0   -21.1 10562.0
GR -27.9 10581.0   -29.8 10620.0   -29.9 10641.0   -13.0 10661.0     2.1 10681.0
GR   5.0 10701.0    18.4 10740.0    32.7 10775.0    34.6 10809.0    44.9 10844.0
GR  44.9 10873.0    46.4 10900.0    48.1 10936.0    53.1 13936.0    73.1 13938.0
X1  6.00     38.   10084   10801    2112    2112    2112
X3    10
GR  76.4  9900.0    56.4  9902.0    51.4 10002.0    51.5 10052.0    51.4 10084.0
GR  45.7 10102.0    40.9 10122.0    32.4 10132.0    30.1 10142.0    22.1 10161.0
GR  15.0 10182.0    10.1 10201.0     5.3 10222.0     3.1 10241.0    -5.0 10281.0
GR  -7.6 10300.0   -10.9 10321.0   -10.9 10361.0   -10.0 10380.0    -9.9 10401.0
GR  -8.9 10420.0    -8.9 10440.0    -7.9 10460.0    -8.0 10480.0    -9.1 10500.0
GR  -6.0 10519.0    -2.1 10600.0     1.8 10620.0     5.8 10639.0    10.6 10660.0
GR  14.7 10680.0    21.7 10700.0    38.3 10765.0    47.1 10801.0    47.1 10850.0
GR  47.1 10901.0    52.1 13901.0    72.1 13903.0
X1  6.20     31.   10152   10776    1056    1056    1056
X3    10
GR  71.8  9899.0    51.8  9901.0    46.8 10001.0    50.2 10101.0    35.5 10123.0
GR  33.6 10152.0    16.9 10181.0     3.9 10240.0    -2.8 10260.0    -8.2 10300.0
GR  -9.1 10319.0    -9.0 10340.0    -9.8 10358.0    -9.9 10379.0   -12.0 10419.0
GR -10.0 10459.0   -10.1 10519.0    -9.1 10539.0    -9.0 10558.0    -8.0 10579.0
GR  -5.2 10599.0     3.1 10620.0    16.5 10678.0    28.0 10699.0    32.5 10714.0
GR  47.7 10776.0    48.1 10798.0    47.7 10844.0    47.7 10889.0    52.7 13889.0
GR  72.7 13891.0
X1  6.40     40.   10152   10779    1056    1056    1056
X3    10
GR  68.9  9899.0    48.9  9901.0    43.9 10001.0    50.4 10052.0    50.5 10073.0
GR  43.8 10102.0    38.4 10152.0    23.1 10181.0    14.9 10200.0    11.1 10221.0
GR   6.0 10241.0     2.0 10260.0     -.1 10281.0    -3.0 10300.0    -7.2 10339.0
GR  -7.2 10399.0    -9.1 10440.0    -9.2 10460.0   -10.2 10480.0    -9.1 10499.0
GR -10.4 10518.0   -10.3 10539.0   -11.2 10558.0   -10.2 10579.0   -11.3 10598.0
GR -15.3 10618.0   -15.2 10638.0     -.1 10659.0     4.7 10678.0     7.0 10699.0
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GR  12.0 10718.0    18.7 10737.0    32.2 10759.0    41.2 10771.0    48.4 10779.0
GR  48.5 10798.0    48.4 10849.0    48.4 10890.0    53.4 13890.0    73.4 13892.0
X1  6.60     40.   10132   10809    1056    1056    1056
X3    10
GR  68.9  9947.0    48.9  9949.0    43.9 10049.0    39.7 10132.0    37.7 10148.0
GR  36.1 10157.0    29.1 10181.0    18.0 10201.0    12.0 10221.0     7.0 10240.0
GR  -1.1 10261.0   -10.0 10279.0   -11.1 10300.0   -11.2 10360.0   -10.1 10381.0
GR -11.0 10400.0   -10.0 10420.0   -11.2 10440.0   -11.2 10480.0   -12.3 10500.0
GR -12.2 10519.0   -13.4 10539.0   -15.1 10559.0   -16.2 10579.0   -16.2 10599.0
GR -13.1 10621.0    -9.2 10640.0    -7.4 10659.0    -2.2 10679.0     1.8 10699.0
GR  14.8 10740.0    19.5 10758.0    27.7 10780.0    34.5 10789.0    44.0 10800.0
GR  50.0 10809.0    50.0 10850.0    50.0 10900.0    55.0 13900.0    75.0 13902.0
X1  6.80     36. 10050.0 10698.0    1056    1056    1056
X3    10
GR  70.0  9898.0    50.0  9900.0    45.0 10000.0    43.5 10050.0    40.2 10060.0
GR  36.3 10070.0    32.4 10070.1    21.8 10080.0    13.9 10100.0     7.1 10120.0
GR  -2.2 10139.0   -14.2 10160.0   -19.1 10179.0   -20.2 10199.0   -26.0 10219.0
GR -26.1 10280.0   -27.1 10300.0   -27.1 10379.0   -29.0 10418.0   -29.0 10438.0
GR -16.0 10458.0    -4.3 10500.0     8.0 10533.0    15.3 10547.0    20.3 10558.0
GR  27.2 10577.0    29.2 10598.0    30.2 10617.0    32.5 10637.0    40.4 10698.0
GR  47.7 10727.0    47.8 10748.0    48.4 10797.0    48.1 10827.0    53.1 13827.0
GR  73.1 13829.0
X1  7.00     43.   10063   10712    1056    1056    1056
X3    10
GR  64.6  9898.0    44.6  9900.0    39.6 10000.0    37.6 10038.0    36.3 10043.0
GR  36.3 10063.0    32.3 10070.0    29.0 10101.0    27.9 10120.0    19.8 10140.0
GR  13.7 10160.0     5.8 10180.0   -17.4 10209.0   -27.0 10219.0   -34.2 10240.0
GR -37.0 10259.0   -36.0 10280.0   -37.1 10300.0   -36.8 10319.0   -36.0 10339.0
GR -36.1 10360.0   -37.1 10379.0   -35.2 10419.0   -32.0 10439.0   -27.0 10458.0
GR -16.1 10478.0    -3.1 10517.0     2.9 10538.0    12.1 10558.0    18.0 10578.0
GR  23.2 10599.0    28.1 10618.0    27.2 10638.0    32.5 10654.0    34.4 10658.0
GR  41.8 10683.0    45.6 10697.0    48.3 10712.0    48.3 10738.0    48.3 10748.0
GR  48.3 10798.0    53.3 13798.0    73.3 13800.0
X1  7.10     39.   10052   10849     528     528     528
X3    10
GR  73.0  9899.0    53.0  9901.0    48.0 10001.0    47.3 10028.0    42.5 10052.0
GR  35.8 10071.0    34.4 10103.0    33.2 10142.0    32.6 10169.0    26.0 10201.0
GR  18.9 10221.0    12.9 10241.0     9.8 10261.0     5.0 10280.0     0.0 10301.0
GR   -.1 10321.0    -2.2 10340.0   -12.2 10360.0   -29.1 10379.0   -30.1 10400.0
GR -21.2 10419.0   -16.1 10439.0   -14.1 10460.0   -12.0 10500.0    -7.4 10519.0
GR  -6.3 10539.0    -1.3 10559.0      .7 10579.0     1.8 10599.0     7.8 10638.0
GR  12.9 10659.0    26.8 10699.0    32.2 10729.0    32.3 10749.0    34.2 10798.0
GR  39.8 10849.0    45.1 10879.0    50.1 13879.0    70.1 13881.0
X1  7.51     35.   10101   10900    2165    2165    2165
X3    10
GR  72.1  9898.0    52.1  9900.0    47.1 10000.0    48.1 10028.0    43.4 10101.0
GR  40.3 10151.0    37.3 10201.0    36.4 10231.0    32.5 10255.0    18.9 10291.0
GR  12.9 10311.0     0.0 10330.0   -12.2 10350.0   -19.1 10370.0   -18.1 10390.0
GR -13.1 10409.0   -11.0 10430.0   -11.1 10508.0   -12.0 10529.0   -12.1 10568.0
GR -15.2 10588.0    -3.8 10609.0     -.9 10629.0     2.9 10648.0     5.0 10688.0
GR  12.0 10712.0    17.1 10728.0    21.1 10747.0    21.9 10767.0    25.3 10788.0
GR  29.9 10808.0    34.5 10848.0    39.0 10900.0    44.0 13900.0    64.0 13902.0
X1  7.71     43.   10100   10779    1056    1056    1056
X3    10
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GR  64.2  9898.0    44.2  9900.0    39.2 10000.0    39.5 10050.0    39.1 10092.0
GR  36.4 10100.0    36.2 10130.0    32.5 10147.0    26.8 10160.0    18.9 10180.0
GR  14.8 10200.0    10.8 10221.0     5.9 10240.0    -4.2 10260.0   -10.1 10279.0
GR -13.2 10299.0   -13.1 10320.0   -11.1 10338.0   -11.0 10378.0   -12.2 10399.0
GR -11.0 10419.0    -9.2 10439.0    -9.1 10459.0    -8.0 10479.0    -5.1 10498.0
GR  -3.2 10518.0     1.8 10538.0     2.7 10557.0     8.9 10598.0    14.9 10618.0
GR  19.9 10638.0    22.9 10658.0    30.1 10678.0    31.8 10699.0    31.7 10718.0
GR  32.5 10728.0    39.8 10750.0    49.7 10779.0    49.7 10798.0    49.7 10814.0
GR  49.7 10847.0    54.7 13847.0    74.7 13849.0
X1  7.91     41.   10160   10825    1056    1056    1056
X3    10
GR  67.2  9878.0    47.2  9880.0    42.2  9980.0    42.4 10000.0    42.1 10051.0
GR  40.5 10070.0    39.3 10100.0    39.0 10150.0    39.0 10160.0    34.6 10175.0
GR  32.3 10184.0    29.0 10190.0    21.0 10209.0    13.1 10249.0     8.9 10289.0
GR   4.9 10330.0    -7.1 10350.0    -9.0 10370.0   -10.1 10390.0   -10.1 10530.0
GR -11.2 10548.0   -11.1 10568.0   -12.1 10589.0    -9.9 10628.0   -12.3 10648.0
GR -11.0 10668.0    -6.0 10688.0    -4.1 10708.0      .9 10728.0    11.0 10747.0
GR  16.1 10767.0    23.0 10787.0    32.8 10807.0    49.7 10825.0    49.7 10847.0
GR  54.3 10869.0    54.5 10875.0    54.4 10886.0    56.2 10928.0    61.2 13928.0
GR  81.2 13930.0
X1  8.11     41.   10080   10819    1056    1056    1056
X3    10
GR  69.8  9898.0    49.8  9900.0    44.8 10000.0    45.4 10053.0    43.6 10080.0
GR  41.4 10092.0    35.6 10107.0    32.8 10108.0    22.1 10131.0    16.0 10151.0
GR  12.0 10172.0     7.0 10190.0     2.0 10210.0    -1.8 10248.0    -3.2 10271.0
GR  -6.0 10290.0    -8.1 10311.0    -8.2 10331.0    -9.2 10348.0    -9.1 10371.0
GR  -8.1 10390.0    -8.2 10550.0    -7.2 10568.0    -7.2 10588.0    -8.1 10610.0
GR  -5.0 10630.0     -.1 10649.0     2.9 10669.0     4.9 10688.0     6.1 10709.0
GR  19.2 10750.0    27.0 10770.0    32.8 10782.0    34.9 10783.0    40.9 10796.0
GR  49.8 10819.0    49.8 10850.0    49.8 10875.0    49.8 10916.0    54.8 13916.0
GR  74.8 13918.0
X1  8.32     35. 10068.0 10846.0    1109    1109    1109
X3    10
GR  70.8  9900.0    50.8  9902.0    45.8 10002.0    45.8 10068.0    41.5 10104.0
GR  36.6 10131.0    33.5 10152.0    32.5 10152.1    29.9 10171.0    22.0 10192.0
GR  12.0 10231.0    10.1 10251.0     0.0 10270.0    -3.8 10291.0    -6.1 10311.0
GR  -7.0 10329.0    -7.0 10349.0    -7.9 10370.0    -8.0 10391.0    -9.0 10410.0
GR  -9.1 10608.0    -7.1 10628.0    -5.8 10648.0     0.0 10707.0     4.0 10728.0
GR  10.0 10748.0    19.0 10768.0    27.7 10808.0    34.9 10818.0    42.6 10831.0
GR  50.2 10846.0    50.2 10900.0    50.2 10931.0    55.2 13931.0    75.2 13933.0
X1  8.51     41.   10151   10828    1004    1004    1004
X3    10
GR  70.6  9899.0    50.6  9901.0    45.6 10001.0    44.8 10052.0    46.2 10092.0
GR  38.2 10151.0    32.9 10172.0    28.8 10181.0    15.0 10220.0    10.0 10241.0
GR   3.0 10260.0     0.0 10280.0    -5.0 10300.0    -5.1 10320.0    -7.2 10339.0
GR  -7.3 10360.0    -8.1 10380.0    -8.1 10400.0   -12.1 10440.0   -14.2 10459.0
GR -13.3 10480.0   -13.3 10520.0   -14.2 10540.0   -14.3 10579.0   -13.3 10599.0
GR  -3.3 10639.0     -.3 10659.0     1.8 10679.0     9.7 10719.0    16.8 10739.0
GR  21.7 10759.0    29.7 10779.0    32.4 10781.0    36.9 10799.0    41.3 10809.0
GR  48.3 10822.0    50.5 10828.0    51.1 10849.0    50.8 10901.0    55.8 13901.0
GR  75.8 13903.0
X1  8.70     39.   10071   10799    1004    1004    1004
X3    10
GR  71.6  9898.0    51.6  9900.0    46.6 10000.0    44.1 10053.0    42.7 10071.0
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GR  34.7 10095.0    32.8 10104.0    27.1 10122.0    12.1 10161.0     8.4 10182.0
GR  -1.8 10222.0    -3.8 10260.0    -4.0 10282.0    -8.8 10301.0    -7.7 10321.0
GR  -7.8 10342.0   -10.0 10379.0    -9.9 10401.0   -11.9 10421.0   -12.8 10441.0
GR -12.8 10460.0   -13.9 10479.0   -14.0 10520.0   -10.0 10599.0    -5.0 10619.0
GR   -.9 10639.0     3.9 10659.0    10.9 10679.0    24.3 10727.0    28.1 10740.0
GR  31.6 10758.0    39.0 10779.0    41.0 10799.0    46.4 10814.0    45.1 10847.0
GR  48.6 10864.0    49.1 10901.0    54.1 13901.0    74.1 13903.0
X1  8.80     43.   10110   10827     528     528     528
X3    10
GR  70.1  9897.0    50.1  9899.0    45.1  9999.0    45.3 10080.0    42.7 10100.0
GR  40.4 10110.0    32.6 10117.0    30.9 10120.0    25.9 10139.0    23.9 10159.0
GR  22.9 10180.0    20.0 10200.0    12.0 10219.0     1.0 10260.0    -4.9 10279.0
GR  -4.0 10299.0    -5.9 10319.0    -6.9 10338.0    -7.0 10399.0    -7.9 10418.0
GR  -8.1 10441.0    -8.9 10459.0   -10.8 10479.0   -13.1 10518.0   -17.0 10539.0
GR -24.8 10559.0   -26.1 10578.0   -25.9 10598.0   -24.0 10638.0    -6.8 10678.0
GR   1.3 10699.0     5.1 10719.0    10.0 10737.0    16.0 10758.0    23.0 10777.0
GR  32.9 10794.0    38.6 10807.0    41.7 10816.0    48.2 10827.0    52.2 10900.0
GR  49.8 10929.0    54.8 13929.0    74.8 13931.0
X1  8.91     38.   10070   10874     580     580     580
X3    10
GR  63.0  9885.0    43.0  9887.0    38.0  9987.0    37.5 10000.0    40.6 10028.0
GR  38.3 10050.0    34.1 10070.0    32.6 10274.0    28.9 10289.0    19.0 10309.0
GR  12.9 10329.0     9.0 10349.0     4.0 10369.0      .8 10389.0    -5.9 10409.0
GR  -7.1 10428.0    -6.0 10449.0    -9.1 10509.0    -7.1 10528.0    -8.0 10548.0
GR  -8.1 10588.0    -9.1 10608.0    -9.0 10628.0   -10.0 10651.0   -10.0 10668.0
GR  -9.0 10688.0    -9.9 10708.0    -7.1 10727.0      .9 10767.0     7.7 10787.0
GR  13.0 10807.0    32.6 10843.0    38.3 10847.0    43.2 10857.0    50.3 10874.0
GR  50.3 10927.0    55.3 13927.0    75.3 13929.0
X1  9.11     30.   10150   10707    1056    1056    1056
X3    10
GR  69.6  9967.0    49.6  9969.0    44.6 10069.0    45.2 10100.0    44.5 10150.0
GR  32.4 10167.0    24.2 10181.0    14.1 10200.0     7.8 10220.0     0.0 10260.0
GR  -3.0 10279.0    -7.0 10359.0    -9.1 10379.0    -8.1 10399.0   -11.1 10418.0
GR  -9.9 10438.0    -9.9 10479.0   -14.0 10559.0   -13.9 10578.0    -8.9 10598.0
GR  -2.2 10617.0     5.9 10638.0    13.0 10657.0    31.9 10678.0    49.5 10707.0
GR  51.3 10722.0    51.6 10784.0    56.2 10808.0    61.2 13808.0    81.2 13810.0
X1  9.31     38.   10201   10846    1056    1056    1056
X3    10
GR  67.8  9930.0    47.8  9932.0    42.8 10032.0    43.0 10051.0    46.1 10101.0
GR  46.1 10131.0    43.4 10152.0    42.8 10201.0    39.6 10230.0    33.9 10252.0
GR  25.3 10271.0    17.8 10290.0    12.7 10310.0    -5.1 10371.0    -6.2 10390.0
GR  -9.3 10410.0    -7.1 10429.0    -7.9 10449.0    -8.0 10469.0    -9.0 10489.0
GR  -8.9 10509.0   -12.0 10568.0   -12.0 10589.0   -11.0 10608.0   -12.1 10629.0
GR  -9.7 10669.0    -5.9 10689.0    10.1 10727.0    17.2 10748.0    26.9 10768.0
GR  32.5 10776.0    37.7 10782.0    47.4 10825.0    50.4 10846.0    50.4 10900.0
GR  56.3 10923.0    61.3 13923.0    81.3 13925.0
X1  9.52     37.   10150   10771    1109    1109    1109
X3    10
GR  67.2  9918.0    47.2  9920.0    42.2 10020.0    43.6 10099.0    43.5 10118.0
GR  38.7 10150.0    36.3 10198.0    33.7 10210.0    32.3 10213.0    27.9 10230.0
GR  17.7 10249.0     8.8 10289.0     2.1 10309.0    -2.2 10329.0    -5.7 10349.0
GR  -8.2 10369.0    -7.2 10390.0    -9.2 10409.0    -8.1 10429.0    -7.9 10549.0
GR -10.1 10588.0    -8.0 10629.0     8.9 10688.0    19.1 10707.0    26.1 10727.0
GR  32.6 10740.0    37.8 10747.0    44.4 10757.0    50.3 10771.0    50.7 10798.0
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GR  52.3 10820.0    57.2 10836.0    57.6 10847.0    57.3 10859.0    52.6 10872.0
GR  57.6 10972.0    77.6 10974.0
X1  9.70     45.   10161   10786     950     950     950
X3    10
GR  74.1  9899.0    54.1  9901.0    49.1 10001.0    47.1 10052.0    49.2 10101.0
GR  47.8 10124.0    44.8 10150.0    43.9 10161.0    38.3 10182.0    32.4 10192.0
GR  27.9 10199.0    22.0 10211.0    10.9 10231.0     6.3 10249.0     1.0 10271.0
GR  -1.9 10291.0    -3.0 10309.0    -3.0 10349.0    -5.9 10409.0    -6.1 10429.0
GR  -6.9 10448.0    -6.9 10469.0    -8.0 10492.0    -8.1 10509.0    -9.0 10528.0
GR  -8.0 10549.0    -8.2 10568.0    -6.7 10591.0    -6.1 10609.0    -6.1 10628.0
GR   -.2 10666.0    22.1 10727.0    31.1 10747.0    32.8 10752.0    44.9 10758.0
GR  50.8 10786.0    50.8 10797.0    51.2 10821.0    56.8 10844.0    57.2 10847.0
GR  57.2 10853.0    56.6 10864.0    51.6 10888.0    56.6 10988.0    76.6 10990.0
X1  9.91     39.   10119   10707    1109    1109    1109
X3    10
GR  70.1  9918.0    50.1  9920.0    45.1 10020.0    44.6 10049.0    44.6 10099.0
GR  44.6 10119.0    40.4 10139.0    32.8 10148.0    24.0 10169.0    15.0 10188.0
GR  10.0 10208.0     3.9 10249.0     -.1 10269.0    -3.4 10292.0    -9.1 10349.0
GR  -9.0 10368.0    -8.0 10388.0    -8.9 10409.0   -12.1 10428.0   -10.0 10445.0
GR –10.2 10468.0   -12.0 10486.0   -12.1 10547.0    -9.9 10568.0    -4.1 10587.0
GR   5.1 10607.0    11.3 10627.0    18.3 10646.0    29.1 10667.0    32.2 10688.0
GR  35.7 10698.0    41.6 10707.0    48.3 10743.0    51.1 10815.0    57.0 10836.0
GR  57.3 10847.0    56.7 10860.0    61.7 10960.0    81.7 10962.0
X1 10.11     41.   10183   10778    1056    1056    1056
X3    10
GR  69.2  9888.0    49.2  9890.0    44.2  9990.0    47.7 10053.0    45.9 10083.0
GR  42.2 10103.0    40.4 10153.0    40.4 10183.0    35.0 10196.0    23.1 10223.0
GR  19.3 10232.0    12.3 10251.0     7.1 10271.0     -.7 10311.0    -5.0 10351.0
GR  -8.0 10372.0    -8.2 10394.0   -11.0 10451.0   -11.2 10473.0   -12.2 10491.0
GR –12.1 10532.0   -14.1 10572.0   -11.2 10591.0    -3.9 10610.0     1.0 10631.0
GR   9.0 10651.0     9.0 10671.0    15.8 10690.0    21.1 10710.0    29.2 10731.0
GR  32.7 10745.0    35.7 10751.0    41.2 10767.0    50.6 10778.0    51.2 10813.0
GR  56.6 10835.0    57.1 10847.0    56.7 10859.0    51.4 10878.0    56.4 10978.0
GR  76.4 10980.0
X1 10.30     41.   10200   10801    1003    1003    1003
X3    10
GR  73.2  9923.0    53.2  9925.0    48.2 10025.0    46.6 10050.0    44.6 10099.0
GR  47.3 10127.0    41.2 10200.0    33.1 10229.0    29.9 10239.0    25.1 10260.0
GR  15.1 10299.0    12.2 10320.0     8.1 10339.0     2.0 10378.0    -2.1 10399.0
GR  -8.0 10458.0    -8.0 10499.0    -9.1 10518.0    -9.2 10540.0   -10.1 10559.0
GR –12.1 10578.0   -13.0 10598.0   -13.0 10658.0   -13.9 10678.0    -9.7 10698.0
GR  -4.9 10717.0     1.5 10729.0     6.0 10737.0    14.1 10747.0    20.8 10756.0
GR  32.7 10776.0    36.6 10785.0    46.7 10797.0    51.4 10801.0    51.5 10846.0
GR  53.4 10875.0    57.1 10895.0    57.3 10904.0    56.8 10914.0    61.8 11014.0
GR  81.8 11016.0
X1 10.49     34.   10051   10726    1003    1003    1003
X3    10
GR  66.8  9898.0    46.8  9900.0    41.8 10000.0    42.4 10041.0    41.8 10051.0
GR  36.2 10069.0    32.5 10077.0    27.0 10091.0    17.9 10110.0     7.8 10151.0
GR   5.0 10172.0     2.9 10192.0      .9 10232.0     1.8 10250.0    -4.3 10375.0
GR  -5.2 10389.0    -7.1 10430.0    -5.2 10449.0    -4.3 10470.0    -4.1 10569.0
GR   5.9 10608.0     9.0 10629.0    16.1 10652.0    29.2 10680.0    39.3 10700.0
GR  51.3 10726.0    51.6 10748.0    51.3 10797.0    51.3 10811.0    56.7 10840.0
GR  57.2 10850.0    56.6 10862.0    61.6 10962.0    81.6 10964.0
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X1 10.68     40.   10151   10794    1003    1003    1003
X3    10
GR  74.3  9899.0    54.3  9901.0    49.3 10001.0    48.1 10051.0    44.8 10100.0
GR  39.5 10151.0    37.3 10189.0    33.7 10220.0    32.4 10223.0    31.8 10230.0
GR  26.8 10251.0    18.8 10270.0    13.9 10290.0    10.1 10310.0     7.0 10329.0
GR   2.6 10350.0    -4.2 10389.0    -7.2 10409.0    -9.1 10450.0   -10.2 10468.0
GR  -9.3 10489.0    -9.0 10549.0    -7.2 10589.0    -7.2 10648.0    -5.1 10668.0
GR   1.2 10683.0     8.0 10702.0    13.6 10716.0    17.8 10727.0    28.8 10737.0
GR  32.4 10741.0    37.5 10751.0    40.7 10767.0    43.2 10782.0    47.9 10794.0
GR  47.9 10831.0    47.9 10863.0    47.9 10886.0    52.9 10986.0    72.9 10988.0
X1 10.87     41.   10149   10797    1003    1003    1003
X3    10
GR  76.2  9898.0    56.2  9900.0    51.2 10000.0    51.0 10049.0    45.4 10099.0
GR  42.2 10149.0    37.6 10199.0    33.1 10214.0    32.0 10220.0    26.7 10239.0
GR  18.9 10260.0    14.1 10279.0    10.3 10298.0     6.1 10317.0    -1.8 10339.0
GR  -7.7 10378.0    -8.9 10399.0   -10.8 10418.0   -12.5 10455.0   -13.7 10477.0
GR -14.0 10498.0   -15.9 10538.0   -15.9 10578.0   -12.1 10598.0     1.0 10617.0
GR   4.3 10637.0     4.2 10658.0     7.8 10677.0    15.0 10697.0    20.1 10717.0
GR  26.2 10736.0    29.2 10757.0    40.3 10777.0    45.6 10797.0    47.4 10815.0
GR  45.6 10832.0    45.6 10847.0    45.6 10900.0    45.6 10920.0    50.6 11020.0
GR  70.6 11022.0
X1 11.04     45.   10201   10798     898     898     898
X3    10
GR  75.4  9898.0    55.4  9900.0    50.4 10000.0    49.1 10052.0    46.1 10101.0
GR  41.8 10151.0    40.2 10201.0    34.5 10212.0    32.6 10214.0    26.9 10231.0
GR  23.7 10250.0    18.4 10273.0     6.9 10331.0     3.8 10350.0    -2.1 10371.0
GR  -5.1 10389.0    -8.1 10409.0   -12.0 10429.0   -13.1 10449.0   -17.1 10489.0
GR -17.2 10509.0   -19.1 10529.0   -19.0 10548.0   -21.0 10568.0   -22.0 10587.0
GR -22.1 10609.0   -16.3 10628.0    -8.2 10643.0    -5.5 10649.0      .9 10655.0
GR  11.4 10668.0    17.7 10687.0    20.1 10708.0    23.9 10727.0    27.1 10747.0
GR  35.3 10767.0    37.5 10798.0    47.2 10827.0    45.3 10847.0    41.1 10858.0
GR  37.5 10899.0    41.6 10914.0    42.6 10930.0    47.6 11030.0    67.6 11032.0
X1 11.23     40.   10160   10849    1003    1003    1003
X3    10
GR  73.8  9898.0    53.8  9900.0    48.8 10000.0    49.0 10016.0    43.4 10050.0
GR  40.5 10101.0    36.8 10160.0    32.7 10184.0    30.9 10210.0    26.2 10229.0
GR  23.2 10251.0    16.2 10269.0     4.2 10309.0    -4.0 10349.0    -7.1 10370.0
GR -10.9 10390.0   -13.2 10409.0   -13.0 10469.0   -15.0 10489.0   -15.1 10511.0
GR -17.9 10568.0   -20.0 10588.0   -19.0 10609.0   -12.4 10630.0    -7.2 10649.0
GR   0.0 10667.0    10.0 10687.0    15.9 10708.0    24.0 10728.0    27.1 10748.0
GR  28.0 10769.0    30.0 10787.0    32.7 10789.0    37.7 10808.0    43.9 10849.0
GR  43.9 10864.0    43.9 10900.0    43.9 10926.0    48.9 11026.0    68.9 11028.0
X1 11.43     37.   10035   10801    1056    1056    1056
X3    10
GR  75.8  9899.0    55.8  9901.0    50.8 10001.0    50.6 10035.0    41.2 10073.0
GR  33.8 10102.0    32.1 10124.0    26.8 10163.0    22.9 10182.0    18.0 10202.0
GR  13.9 10222.0     8.0 10262.0     2.1 10283.0    -1.0 10302.0    -3.0 10321.0
GR  -5.9 10342.0    -8.9 10362.0   -10.1 10382.0   -11.9 10422.0   -14.8 10441.0
GR -15.0 10522.0    -6.9 10542.0    -4.8 10582.0     -.9 10602.0     5.1 10622.0
GR  15.1 10641.0    24.1 10662.0    29.9 10681.0    32.2 10700.0    34.9 10751.0
GR  38.5 10781.0    39.9 10801.0    46.7 10845.0    40.9 10864.0    39.9 10903.0
GR  44.9 11003.0    64.9 11005.0
X1 11.62     34.   10051   10797    1003    1003    1003
X3    10
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GR  75.7  9898.0    55.7  9900.0    50.7 10000.0    50.2 10010.0    49.8 10051.0
GR  38.1 10090.0    32.3 10102.0    24.8 10120.0    10.1 10180.0     5.0 10200.0
GR   2.9 10219.0    -7.0 10259.0   -10.1 10318.0   -10.2 10340.0   -13.2 10399.0
GR -15.1 10420.0   -17.1 10459.0     0.0 10480.0     2.0 10498.0     3.0 10518.0
GR   2.1 10539.0     9.8 10578.0    15.9 10598.0    27.0 10618.0    29.0 10658.0
GR  32.2 10669.0    33.2 10698.0    37.2 10757.0    38.9 10797.0    46.8 10835.0
GR  46.2 10848.0    44.2 10906.0    49.2 11006.0    69.2 11008.0
X1 11.81     38.   10112   10747    1003    1003    1003
X3    10
GR  73.6  9919.0    53.6  9921.0    48.6 10021.0    47.0 10051.0    47.0 10100.0
GR  47.0 10112.0    39.7 10124.0    35.6 10140.0    33.3 10150.0    32.0 10151.0
GR  27.0 10160.0    20.1 10180.0    14.9 10201.0    11.1 10219.0     5.0 10240.0
GR   0.0 10259.0    -9.0 10279.0    -9.0 10380.0   -11.0 10398.0   -11.0 10439.0
GR -13.1 10459.0   -12.0 10479.0    -9.9 10499.0   -10.0 10519.0    -8.1 10538.0
GR   0.0 10559.0     2.0 10579.0    10.0 10598.0    15.1 10618.0    18.8 10638.0
GR  32.1 10656.0    34.4 10669.0    40.4 10747.0    40.5 10782.0    40.4 10847.0
GR  40.4 10900.0    45.4 11000.0    65.4 11002.0
X1 12.21     47. 10151.0 10806.0    2112    2112    2112
X3    10
GR  77.5  9899.0    57.5  9901.0    52.5 10001.0    53.2 10052.0    52.8 10110.0
GR  49.4 10122.0    42.4 10141.0    40.4 10151.0    34.4 10159.0    32.4 10159.1
GR  26.0 10171.0    22.9 10190.0    18.1 10211.0    17.0 10230.0    17.0 10250.0
GR  14.0 10271.0    12.0 10290.0     7.1 10310.0      .9 10329.0    -7.1 10370.0
GR -13.1 10389.0   -14.1 10410.0   -12.1 10430.0   -11.1 10450.0    -9.0 10469.0
GR  -8.0 10489.0    -8.2 10510.0    -7.1 10528.0    -7.2 10548.0    -6.3 10569.0
GR  -4.1 10588.0    -3.1 10609.0     0.0 10629.0     3.9 10648.0     8.8 10669.0
GR  13.0 10689.0    17.8 10708.0    29.8 10729.0    31.0 10749.0    33.7 10768.0
GR  42.4 10798.0    43.2 10806.0    43.2 10819.0    43.2 10848.0    43.2 10911.0
GR  48.2 11011.0    68.2 11013.0
X1 12.42     42.   10122   10698    1109    1109    1109
X3    10
GR  76.5  9899.0    56.5  9901.0    51.5 10001.0    50.4 10053.0    47.0 10072.0
GR  41.3 10102.0    37.7 10122.0    32.5 10134.0    30.1 10141.0    29.1 10162.0
GR  22.9 10181.0    17.9 10200.0     9.1 10220.0     6.0 10241.0     4.0 10261.0
GR  -1.8 10280.0    -1.9 10301.0    -6.8 10321.0   -10.0 10340.0   -18.0 10380.0
GR -20.0 10400.0   -23.0 10420.0   -25.0 10439.0   -24.0 10460.0   -21.1 10480.0
GR -20.0 10500.0   -18.0 10520.0   -12.1 10536.0    -5.7 10560.0    -.9 10579.0
GR   4.9 10598.0     9.0 10619.0    17.8 10639.0    25.0 10658.0    32.1 10669.0
GR  42.9 10698.0    46.1 10739.0    42.9 10764.0    46.1 10799.0    44.9 10837.0
GR  49.9 10937.0    69.9 10939.0
X1 12.61     40.   10100   10847    1003    1003    1003
X3    10
GR  77.4  9909.0    57.4  9911.0    52.4 10011.0    49.8 10026.0    47.6 10100.0
GR  36.6 10130.0    33.3 10150.0    32.3 10171.0    30.0 10189.0    28.9 10210.0
GR  26.9 10229.0    25.1 10249.0    20.9 10270.0    16.9 10289.0    11.1 10310.0
GR   6.9 10329.0     3.9 10349.0    -1.0 10369.0    -7.1 10409.0   -11.1 10429.0
GR -16.0 10449.0   -29.1 10468.0   -29.1 10508.0   -27.0 10528.0   -27.0 10548.0
GR -26.0 10568.0   -24.1 10588.0   -18.9 10608.0    -7.0 10628.0      .6 10639.0
GR  21.0 10667.0    29.0 10708.0    29.0 10767.0    31.0 10787.0    32.3 10792.0
GR  38.3 10797.0    42.6 10847.0    44.4 10900.0    49.4 11000.0    69.4 11002.0
X1 12.81     36.   10132   10775    1056    1056    1056
X3    10
GR  65.1  9898.0    45.1  9900.0    40.1 10000.0    38.5 10052.0    39.8 10102.0
GR  37.5 10132.0    32.4 10169.0    21.1 10191.0    15.1 10212.0    12.0 10231.0
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GR   8.1 10251.0     4.1 10291.0      .9 10310.0    -5.0 10371.0    -5.9 10390.0
GR -10.0 10410.0   -10.0 10430.0   -13.0 10450.0   -17.1 10490.0   -18.0 10510.0
GR -18.1 10530.0   -17.1 10550.0   -14.2 10569.0   -10.1 10589.0     2.9 10609.0
GR   7.9 10629.0    11.0 10650.0    13.0 10669.0    20.0 10695.0    25.0 10715.0
GR  43.1 10754.0    50.6 10775.0    50.9 10839.0    50.6 10876.0    55.6 10976.0
GR  75.6 10978.0
X1 13.00     43.   10112   10814    1003    1003    1003
X3    10
GR  75.5  9949.0    55.5  9951.0    50.5 10051.0    47.6 10112.0    42.0 10149.0
GR  36.1 10199.0    35.7 10209.0    32.2 10221.0    30.8 10229.0    30.9 10250.0
GR  28.0 10270.0     9.9 10309.0     5.9 10329.0      .7 10350.0    -6.3 10370.0
GR  -8.1 10390.0    -9.3 10409.0   -11.3 10428.0   -11.1 10451.0   -12.2 10469.0
GR -16.3 10509.0   -14.3 10529.0   -14.3 10549.0   -15.2 10569.0   -12.1 10589.0
GR -12.2 10609.0   -10.2 10629.0    -3.2 10648.0    -2.1 10668.0      .9 10688.0
GR   5.0 10707.0    13.0 10727.0    20.2 10747.0    26.5 10763.0    32.2 10776.0
GR  37.8 10787.0    45.5 10805.0    47.6 10814.0    47.6 10846.0    47.6 10899.0
GR  47.6 10919.0    52.6 11019.0    72.6 11021.0
X1 13.20     38.   10136   10769    1056    1056    1056
X3    10
GR  76.5  9922.0    56.5  9924.0    51.5 10024.0    51.5 10050.0    52.0 10098.0
GR  51.5 10136.0    39.4 10159.0    32.8 10164.0    32.6 10169.0    26.7 10179.0
GR  20.7 10199.0    16.1 10218.0     6.0 10238.0     3.7 10258.0     -.8 10278.0
GR -10.2 10298.0   -15.1 10318.0   -17.0 10338.0   -15.0 10359.0   -13.0 10398.0
GR -10.0 10418.0   -12.0 10438.0   -11.0 10458.0   -11.1 10498.0   -12.0 10518.0
GR  -6.1 10557.0    -1.9 10598.0    14.2 10678.0    23.2 10698.0    32.3 10716.0
GR  33.6 10722.0    40.4 10747.0    43.4 10769.0    43.4 10798.0    44.5 10847.0
GR  43.4 10871.0    48.4 10971.0    68.4 10973.0
X1 13.41     43.   10111   10847    1109    1109    1109
X3    10
GR  74.4  9911.0    54.4  9913.0    49.4 10013.0    48.4 10053.0    48.3 10111.0
GR  41.9 10119.0    38.2 10126.0    32.4 10140.0    25.8 10152.0    14.0 10192.0
GR   7.9 10211.0      .8 10231.0    -5.1 10250.0    -8.2 10271.0   -10.2 10291.0
GR -12.3 10310.0   -11.2 10330.0   -12.2 10350.0   -12.3 10410.0    -9.0 10431.0
GR  -8.1 10449.0    -2.2 10490.0    -1.1 10510.0      .8 10530.0     3.7 10549.0
GR   3.9 10569.0     4.8 10589.0     3.8 10609.0     8.6 10647.0    11.7 10668.0
GR  13.8 10689.0    16.8 10708.0    20.8 10728.0    23.7 10748.0    29.9 10768.0
GR  30.7 10788.0    35.3 10818.0    41.1 10847.0    41.6 10873.0    41.9 10900.0
GR  42.5 10925.0    47.5 11025.0    67.5 11027.0
X1 13.60     42.   10106   10849    1003    1003    1003
X3    10
GR  74.6  9897.0    54.6  9899.0    49.6  9999.0    49.6 10050.0    49.6 10099.0
GR  49.6 10106.0    39.6 10126.0    35.5 10140.0    32.5 10148.0    23.9 10159.0
GR  19.0 10178.0    15.9 10200.0    13.0 10219.0     6.9 10239.0     -.2 10259.0
GR  -3.0 10280.0    -7.0 10299.0    -9.1 10319.0   -10.0 10340.0   -10.1 10399.0
GR  -7.9 10419.0    -8.0 10439.0    -4.9 10459.0    -1.8 10519.0     0.0 10538.0
GR   1.0 10559.0     1.0 10578.0     2.1 10598.0     4.0 10618.0     4.0 10678.0
GR   7.2 10698.0    11.4 10718.0    15.1 10738.0    20.1 10758.0    33.0 10795.0
GR  33.1 10799.0    39.1 10819.0    43.0 10841.0    43.5 10849.0    44.2 10901.0
GR  49.2 11001.0    69.2 11003.0
X1 13.80     41.   10126   10777    1056    1056    1056
X3    10
GR  76.8  9924.0    56.8  9926.0    51.8 10026.0    51.8 10077.0    51.8 10100.0
GR  51.8 10126.0    38.8 10160.0    32.2 10180.0    27.8 10199.0    20.0 10218.0
GR  16.7 10240.0    15.8 10259.0    13.9 10278.0     7.6 10300.0     1.9 10318.0
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GR  -3.3 10338.0    -9.1 10358.0    -9.0 10378.0   -10.2 10398.0   -10.1 10437.0
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GR  10.9 10717.0    24.1 10737.0    32.4 10752.0    35.1 10756.0    43.2 10777.0
GR  44.6 10797.0    45.4 10846.0    46.8 10883.0    47.0 10900.0    52.0 11000.0
GR  72.0 11002.0
X1 14.00     38.   10081   10753    1056    1056    1056
X3    10
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GR  52.7 10081.0    50.9 10091.0    40.4 10121.0    34.9 10151.0    32.6 10181.0
GR  20.9 10222.0    17.0 10241.0    11.0 10261.0     6.9 10281.0     2.2 10300.0
GR  -1.0 10321.0    -5.1 10341.0    -8.1 10361.0    -6.1 10381.0    -6.1 10401.0
GR -12.1 10460.0   -14.0 10501.0   -16.3 10520.0   -20.0 10539.0   -21.1 10559.0
GR -19.1 10578.0   -18.0 10599.0    -4.0 10639.0     9.0 10659.0    18.9 10679.0
GR  32.5 10701.0    36.8 10719.0    41.7 10749.0    44.5 10753.0    47.6 10798.0
GR  47.8 10852.0    52.8 10952.0    72.8 10954.0
X1 14.39     43.   10064   10952    2059    2059    2059
X3    10
GR  75.4  9901.0    55.4  9903.0    50.4 10003.0    50.4 10041.0    50.4 10064.0
GR  32.7 10103.0    29.0 10113.0    23.1 10133.0    18.2 10153.0    16.1 10172.0
GR  14.0 10213.0    14.1 10232.0     7.9 10253.0    -1.0 10272.0    -8.0 10292.0
GR -11.1 10312.0   -12.1 10332.0   -14.1 10352.0   -14.0 10373.0   -15.1 10391.0
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GR  -2.0 10591.0     .8 10610.0     3.9 10636.0     5.0 10651.0     8.1 10671.0
GR  12.1 10690.0    15.0 10711.0    20.4 10731.0    28.1 10769.0    30.1 10810.0
GR  32.0 10830.0    30.1 10850.0    30.0 10871.0    32.8 10922.0    35.0 10952.0
GR  35.4 10961.0    40.4 11061.0    60.4 11063.0
X1 14.58     33.   10064   10845    1003    1003    1003
X3    10
GR  75.2  9897.0    55.2  9899.0    50.2  9999.0    47.1 10063.0    47.1 10064.0
GR  36.6 10099.0    36.9 10109.0    32.3 10123.0    28.8 10130.0    25.0 10149.0
GR   9.9 10209.0     5.3 10228.0    -9.1 10269.0   -14.3 10290.0   -17.0 10309.0
GR -13.0 10348.0   -13.0 10368.0    -5.1 10449.0    -6.0 10468.0    -5.0 10488.0
GR   2.0 10528.0     2.0 10548.0     7.1 10608.0    10.3 10628.0    12.0 10648.0
GR  19.9 10687.0    25.0 10727.0    30.0 10748.0    30.0 10768.0    34.7 10845.0
GR  34.7 10899.0    39.7 10999.0    59.7 11001.0
X1 14.78     42.   10092   10901    1056    1056    1056
X3    10
GR  78.6  9888.0    58.6  9890.0    53.6  9990.0    51.5 10007.0    49.2 10042.0
GR  41.9 10092.0    33.9 10121.0    33.6 10151.0    32.5 10155.0    29.3 10191.0
GR  28.1 10211.0    20.1 10230.0     2.7 10291.0     -.8 10311.0    -9.9 10350.0
GR -12.1 10370.0    -8.9 10430.0   -10.9 10450.0   -10.0 10470.0    -7.8 10490.0
GR  -8.0 10510.0    -7.0 10530.0    -4.9 10549.0    -4.9 10569.0    -7.9 10589.0
GR   2.1 10609.0     2.9 10630.0     5.1 10650.0     5.0 10669.0     6.9 10689.0
GR   9.0 10729.0    11.2 10750.0    14.9 10768.0    15.8 10789.0    22.0 10809.0
GR  29.0 10850.0    29.0 10869.0    32.5 10882.0    32.8 10901.0    32.8 10933.0
GR  37.8 11033.0    57.8 11035.0
X1 14.98     38.   10131   10801    1056    1056    1056
X3    10
GR  73.1  9931.0    53.1  9933.0    48.1 10033.0    48.1 10071.0    48.1 10090.0
GR  48.1 10131.0    36.7 10152.0    32.5 10166.0    27.8 10172.0    21.9 10192.0
GR  17.8 10212.0     2.8 10251.0   -11.0 10311.0   -12.1 10332.0   -12.0 10352.0
GR -10.8 10372.0   -11.0 10391.0   -12.2 10412.0   -12.0 10432.0    -8.9 10452.0
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GR   1.0 10610.0     4.9 10651.0     5.9 10672.0     9.0 10691.0    13.0 10710.0
GR  15.8 10731.0    20.9 10750.0    27.7 10791.0    33.2 10801.0    33.2 10851.0
GR  33.6 10901.0    38.6 11001.0    58.6 11003.0
X1 15.19     30.   10191   10900    1109    1109    1109
X3    10
GR  75.2  9989.0    55.2  9991.0    50.2 10091.0    48.6 10149.0    48.3 10191.0
GR  39.5 10198.0    32.4 10215.0    24.7 10219.0     6.8 10278.0     4.9 10299.0
GR -13.9 10338.0   -14.1 10359.0   -13.0 10378.0   -13.1 10418.0   -10.9 10458.0
GR -10.9 10478.0    -8.0 10498.0    -7.1 10518.0    -9.1 10558.0    -1.1 10598.0
GR    .9 10618.0     1.9 10638.0     4.8 10658.0    21.9 10758.0    30.6 10797.0
GR  30.9 10859.0    32.1 10875.0    33.1 10900.0    38.1 11000.0    58.1 11002.0
X1 15.38     38.   10079   10850    1000    1000    1000
X3    10
GR  75.7  9876.0    55.7  9878.0    50.7  9978.0    51.3  9998.0    49.2 10049.0
GR  49.1 10079.0    37.0 10099.0    27.0 10119.0    15.8 10150.0    12.1 10159.0
GR   7.0 10179.0    -4.9 10220.0    -5.9 10241.0    -5.9 10261.0    -7.8 10280.0
GR  -7.9 10340.0    -6.9 10361.0    -4.9 10380.0    -4.8 10400.0    -3.8 10420.0
GR   1.1 10441.0     5.0 10479.0     5.1 10519.0     7.1 10539.0     8.1 10561.0
GR  10.1 10578.0    14.0 10660.0    16.1 10681.0    24.2 10720.0    29.1 10740.0
GR  28.9 10760.0    31.0 10780.0    31.5 10791.0    38.7 10850.0    42.4 10899.0
GR  41.2 10948.0    46.2 11048.0    66.2 11050.0
X1 15.58     37.   10121   10850    1056    1056    1056
X3    10
GR  72.1  9918.0    52.1  9920.0    47.1 10020.0    47.1 10049.0    47.1 10084.0
GR  47.1 10101.0    47.1 10121.0    36.5 10150.0    31.6 10176.0    30.0 10210.0
GR  31.2 10230.0    24.1 10250.0    22.1 10270.0     6.8 10291.0     4.2 10310.0
GR -10.0 10330.0    -8.0 10351.0    -9.1 10371.0   -13.0 10391.0   -10.9 10432.0
GR -10.9 10452.0    -9.9 10471.0    -6.1 10510.0    -1.2 10610.0     2.2 10632.0
GR   4.2 10650.0     7.1 10671.0    11.0 10710.0    19.0 10749.0    29.1 10769.0
GR  31.5 10780.0    32.1 10791.0    35.8 10800.0    38.8 10850.0    38.8 10900.0
GR  43.8 11000.0    63.8 11002.0
X1 15.78     40.   10049   10800    1056    1056    1056
X3    10
GR  75.5  9827.0    55.5  9829.0    50.5  9929.0    50.5  9949.0    50.5  9985.0
GR  50.5  9999.0    52.8 10031.0    50.5 10049.0    38.5 10099.0    31.7 10121.0
GR  22.3 10140.0    16.7 10162.0     9.8 10181.0     -.1 10220.0    -4.0 10242.0
GR  -5.0 10260.0    -4.9 10321.0    -7.0 10361.0    -7.1 10401.0    -5.0 10420.0
GR  -4.9 10441.0    -6.0 10462.0    -4.0 10481.0    -2.0 10520.0     3.0 10541.0
GR   3.0 10561.0     8.9 10580.0     7.9 10600.0     9.9 10621.0    26.2 10660.0
GR  31.5 10680.0    31.9 10699.0    34.5 10719.0    40.7 10800.0    46.4 10850.0
GR  51.9 10890.0    53.0 10950.0    53.4 10999.0    58.4 11099.0    78.4 11101.0
X1 15.98     34.   10098   10858    1056    1056    1056
X3    10
GR  70.8  9847.0    50.8  9849.0    45.8  9949.0    46.8  9998.0    48.6 10048.0
GR  34.4 10098.0    30.3 10161.0    19.0 10199.0    13.1 10220.0     7.0 10259.0
GR  -6.2 10280.0    -6.1 10301.0    -7.1 10319.0    -7.2 10341.0    -8.1 10359.0
GR  -8.1 10380.0   -10.1 10399.0   -12.2 10440.0   -10.0 10459.0   -10.1 10479.0
GR -11.2 10499.0    -5.2 10520.0    -2.0 10541.0    -1.2 10560.0     4.9 10579.0
GR  17.0 10640.0    23.0 10681.0    30.5 10689.0    37.4 10779.0    50.7 10858.0
GR  51.5 10899.0    50.7 10949.0    55.7 11049.0    75.7 11051.0
X1 16.20     40.   10111   10804    1162    1162    1162
X3    10
GR  64.8  9909.0    44.8  9911.0    39.8 10011.0    39.8 10051.0    39.8 10075.0
GR  39.8 10099.0    39.8 10111.0    36.6 10126.0    30.5 10138.0    27.1 10140.0
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GR  14.0 10159.0    10.1 10180.0     7.0 10201.0     5.0 10240.0     5.1 10259.0
GR   4.0 10280.0    -7.8 10300.0   -12.8 10319.0    -9.9 10379.0   -10.0 10419.0
GR  -8.0 10460.0    -7.9 10480.0    -5.8 10500.0    -2.0 10519.0    -1.9 10540.0
GR   -.1 10579.0     4.2 10600.0     9.0 10620.0    12.1 10640.0    20.1 10659.0
GR  25.0 10678.0    27.2 10719.0    30.7 10734.0    34.6 10739.0    43.5 10778.0
GR  51.6 10804.0    51.6 10848.0    51.6 10899.0    56.6 10999.0    76.6 11001.0
X1 16.38     31.   10138   10748     950     950     950
X3    10
GR  64.5  9898.0    44.5  9900.0    39.5 10000.0    39.5 10048.0    41.1 10098.0
GR  39.5 10138.0    36.6 10159.0    25.1 10179.0    19.0 10199.0    -7.1 10281.0
GR -11.0 10320.0   -11.0 10340.0   -12.0 10360.0   -12.0 10459.0    -8.1 10541.0
GR  -5.2 10560.0    -3.2 10581.0     -.2 10600.0     7.9 10619.0    13.0 10640.0
GR  15.0 10659.0    27.2 10699.0    30.5 10703.0    45.7 10738.0    51.1 10748.0
GR  52.6 10768.0    51.8 10799.0    51.6 10849.0    52.0 10869.0    57.0 10969.0
GR  77.0 10971.0
X1 16.60     39.   10075   10787    1162    1162    1162
X3    10
GR  74.2  9874.0    54.2  9876.0    49.2  9976.0    54.6  9998.0    49.2 10048.0
GR  49.2 10075.0    44.6 10099.0    40.0 10113.0    26.1 10139.0    18.0 10161.0
GR  11.9 10180.0     5.0 10200.0      .9 10220.0    -1.8 10240.0    -2.0 10259.0
GR  -4.1 10300.0    -7.8 10321.0    -7.9 10340.0    -9.0 10359.0    -9.0 10379.0
GR  -9.9 10400.0    -8.9 10419.0    -9.0 10461.0    -8.0 10481.0    -8.1 10520.0
GR  -1.1 10580.0    -1.1 10600.0      .1 10620.0     2.1 10640.0     9.2 10660.0
GR  13.2 10701.0    17.9 10719.0    30.5 10738.0    37.5 10763.0    53.1 10787.0
GR  53.1 10849.0    53.1 10889.0    58.1 10989.0    78.1 10991.0
X1 16.79     39.   10130   10824    1003    1003    1003
X3    10
GR  73.6  9847.0    53.6  9849.0    48.6  9949.0    49.1  9999.0    49.7 10048.0
GR  43.3 10130.0    38.7 10149.0    28.1 10170.0    19.9 10190.0    15.1 10210.0
GR  11.1 10230.0    10.1 10250.0     2.1 10291.0    -2.1 10330.0    -4.0 10350.0
GR  -4.9 10371.0    -5.0 10390.0    -7.1 10431.0   -11.0 10450.0   -10.0 10470.0
GR -10.1 10490.0   -12.0 10510.0   -12.2 10530.0   -10.0 10550.0    -9.1 10569.0
GR  -1.0 10650.0     4.1 10671.0     8.1 10691.0    13.1 10710.0    20.1 10729.0
GR  24.0 10750.0    27.0 10770.0    41.4 10809.0    51.6 10824.0    52.5 10882.0
GR  51.6 10906.0    51.6 10925.0    56.6 11025.0    76.6 11027.0
X1 17.00     40. 10199.4 10851.4    1109    1109    1109
X3    10
GR  73.1  9796.1    53.1  9798.1    48.1  9898.1    49.5  9998.6    49.2 10016.5
GR  45.4 10048.7    43.3 10149.2    41.4 10199.4    30.6 10218.6    17.3 10239.9
GR  11.0 10259.7     8.0 10280.0     3.8 10300.9    -1.0 10320.2    -4.1 10339.6
GR  -4.0 10360.0    -7.1 10381.3    -7.1 10401.7    -8.9 10441.0    -9.1 10460.3
GR -10.0 10480.2   -10.0 10500.1    -8.0 10521.5    -8.1 10562.3    -7.0 10582.2
GR  -7.1 10621.5    -5.9 10640.4     3.1 10680.3     7.1 10700.2     8.1 10720.1
GR  26.1 10779.5    27.1 10799.9    29.1 10819.8    30.8 10819.9    53.7 10851.4
GR  53.7 10898.6    53.7 10914.5    53.7 10950.2    58.7 11050.2    78.7 11052.2
X1 17.20     34.   10149   10792    1056    1056    1056
X3    10
GR  70.2  9927.0    50.2  9929.0    45.2 10029.0    48.4 10099.0    46.5 10129.0
GR  43.6 10149.0    24.9 10189.0    19.1 10209.0    14.0 10230.0     2.9 10270.0
GR  -1.0 10295.0    -2.1 10309.0    -6.2 10331.0    -7.2 10350.0    -7.1 10390.0
GR -10.0 10450.0   -10.1 10489.0    -8.1 10529.0    -8.1 10550.0    -9.2 10570.0
GR  -9.1 10590.0    -7.1 10610.0    -3.1 10630.0     3.3 10652.0    13.0 10690.0
GR  17.1 10709.0    30.7 10758.0    40.8 10767.0    52.8 10792.0    53.2 10824.0
GR  52.8 10843.0    52.8 10889.0    57.8 10989.0    77.8 10991.0
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X1 17.40     40.   10168   10788    1056    1056    1056
X3    10
GR  71.3  9911.0    51.3  9913.0    46.3 10013.0    43.7 10048.0    47.4 10098.0
GR  48.0 10113.0    43.9 10148.0    37.8 10168.0    30.3 10221.0    22.0 10250.0
GR  14.7 10269.0     9.9 10288.0     6.9 10310.0    -4.1 10329.0    -3.1 10349.0
GR  -3.1 10370.0    -5.0 10390.0    -6.0 10410.0    -8.9 10430.0    -8.9 10451.0
GR -10.1 10469.0   -10.0 10488.0   -10.9 10510.0   -12.1 10529.0   -11.1 10549.0
GR -11.1 10569.0    -3.4 10610.0    -1.1 10629.0     -.9 10649.0     2.2 10670.0
GR   6.0 10689.0    20.3 10730.0    30.8 10753.0    36.7 10769.0    47.8 10788.0
GR  47.9 10798.0    52.9 10848.0    49.3 10888.0    54.3 10988.0    74.3 10990.0
X1 17.61     34.   10159   10764    1108    1108    1108
X3    10
GR  71.6  9896.0    51.6  9898.0    46.6  9998.0    49.3 10048.0    50.3 10099.0
GR  44.5 10139.0    40.5 10159.0    30.7 10182.0    20.9 10199.0    13.0 10220.0
GR    .9 10260.0    -3.0 10280.0    -6.0 10302.0    -6.9 10321.0    -9.0 10339.0
GR  -9.0 10400.0   -10.2 10419.0    -8.9 10438.0    -9.9 10461.0   -10.0 10500.0
GR -12.1 10520.0    -6.2 10561.0    -6.2 10582.0    -3.1 10601.0     7.0 10640.0
GR  14.0 10661.0    24.9 10699.0    30.5 10710.0    40.9 10738.0    53.1 10764.0
GR  53.1 10809.0    53.1 10849.0    58.1 10949.0    78.1 10951.0
X1 17.80     35.   10149   10699    1003    1003    1003
X3    10
GR  68.2  9897.0    48.2  9899.0    43.2  9999.0    41.8 10048.0    41.7 10119.0
GR  37.7 10149.0    29.1 10160.0    17.8 10200.0     2.0 10239.0    -7.1 10260.0
GR  -9.0 10280.0   -10.0 10300.0   -10.1 10341.0   -10.8 10360.0   -12.0 10380.0
GR -10.9 10400.0   -10.8 10420.0    -9.8 10440.0   -11.1 10460.0   -10.8 10481.0
GR -12.2 10499.0   -10.0 10541.0    -5.1 10580.0    -3.2 10599.0    19.2 10660.0
GR  25.1 10679.0    30.3 10688.0    41.1 10699.0    53.1 10738.0    53.6 10749.0
GR  53.2 10791.0    49.9 10794.0    48.2 10840.0    53.2 10940.0    73.2 10942.0
X1 18.01     34.   10158   10799    1108    1108    1108
X3    10
GR  65.6  9946.0    45.6  9948.0    40.6 10048.0    43.5 10098.0    43.5 10139.0
GR  39.0 10158.0    30.7 10217.0    29.0 10220.0    26.0 10240.0    13.0 10280.0
GR   4.8 10300.0     0.0 10320.0   -11.1 10340.0   -12.0 10360.0   -12.1 10441.0
GR -13.1 10460.0   -13.2 10500.0   -15.1 10519.0   -15.0 10539.0    -8.1 10561.0
GR  -5.0 10581.0      .8 10599.0     2.9 10620.0     7.1 10639.0    10.0 10659.0
GR  16.1 10680.0    30.8 10752.0    40.8 10779.0    52.6 10799.0    53.5 10851.0
GR  52.6 10873.0    52.6 10898.0    57.6 10998.0    77.6 11000.0
X1 18.20     33.   10159   10790    1003    1003    1003
X3    10
GR  69.8  9947.0    49.8  9949.0    44.8 10049.0    42.2 10099.0    44.8 10139.0
GR  42.2 10159.0    30.7 10187.0    18.2 10214.0    14.0 10241.0     9.8 10259.0
GR   3.1 10280.0    -2.2 10299.0    -4.0 10320.0    -8.8 10339.0    -8.8 10400.0
GR -11.1 10420.0    -8.9 10439.0    -9.0 10520.0   -10.1 10540.0   -10.1 10561.0
GR  -8.2 10579.0    -2.3 10600.0      .9 10619.0    11.0 10660.0    15.0 10700.0
GR  21.0 10720.0    53.2 10790.0    53.2 10799.0    54.2 10853.0    55.4 10869.0
GR  53.2 10889.0    58.2 10989.0    78.2 10991.0
X1 18.39     46.   10110   10719    1003    1003    1003
X3    10
GR  65.4  9896.0    45.4  9898.0    40.4  9998.0    40.4 10012.0    40.4 10049.0
GR  40.4 10060.0    43.7 10079.0    44.9 10094.0    40.4 10110.0    30.5 10116.0
GR  27.9 10120.0    23.8 10140.0    18.9 10159.0    11.7 10180.0     7.7 10200.0
GR   6.9 10220.0     3.8 10240.0    -1.0 10260.0    -5.1 10280.0   -10.0 10300.0
GR -11.0 10321.0   -10.2 10340.0   -11.3 10361.0   -11.1 10380.0   -10.0 10400.0
GR -10.0 10420.0   -11.2 10440.0   -10.2 10460.0   -10.0 10499.0    -8.0 10520.0
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GR  -2.9 10541.0     3.2 10561.0     7.9 10579.0    20.0 10620.0    24.2 10640.0
GR  29.2 10659.0    30.8 10662.0    37.4 10684.0    44.9 10699.0    54.5 10719.0
GR  54.5 10738.0    54.5 10764.0    54.5 10799.0    54.5 10820.0    59.5 10920.0
GR  79.5 10922.0
X1 18.59     42.   10149   10758    1056    1056    1056
X3    10
GR  70.3  9897.0    50.3  9899.0    45.3  9999.0    46.0 10049.0    44.6 10099.0
GR  40.4 10116.0    40.4 10149.0    37.4 10165.0    30.9 10179.0    27.0 10180.0
GR  21.9 10200.0    16.1 10219.0    12.1 10240.0     9.3 10259.0     4.3 10279.0
GR   1.1 10300.0    -4.8 10320.0    -7.9 10341.0    -8.9 10360.0   -10.9 10380.0
GR  -9.9 10400.0    -9.9 10420.0    -8.8 10440.0   -10.0 10459.0    -9.8 10480.0
GR  -8.9 10500.0    -9.9 10520.0    -9.9 10539.0    -7.9 10562.0    -7.9 10581.0
GR  -1.7 10621.0     2.1 10640.0     4.3 10660.0     8.2 10680.0    15.2 10699.0
GR  41.8 10750.0    49.5 10758.0    53.7 10779.0    53.8 10849.0    54.3 10879.0
GR  59.3 10979.0    79.3 10981.0
X1 18.78     36.   10169   10800    1003    1003    1003
X3    10
GR  66.7  9896.0    46.7  9898.0    41.7  9998.0    49.3 10048.0    51.5 10099.0
GR  45.6 10149.0    41.7 10169.0    39.4 10189.0    30.7 10214.0    22.9 10231.0
GR  20.1 10250.0     7.0 10290.0     -.8 10329.0    -3.4 10352.0    -5.9 10370.0
GR  -6.0 10391.0    -7.9 10431.0    -8.0 10470.0    -8.9 10491.0    -9.1 10512.0
GR -11.1 10551.0   -11.0 10570.0    -9.9 10589.0   -10.0 10610.0    -7.0 10632.0
GR  -5.8 10651.0     1.4 10692.0     6.3 10711.0    23.2 10751.0    35.0 10771.0
GR  45.6 10790.0    51.7 10800.0    53.4 10850.0    54.3 10900.0    59.3 11000.0
GR  79.3 11002.0
X1 18.99     40.   10109   10788    1109    1109    1109
X3    10
GR  72.0  9898.0    52.0  9900.0    47.0 10000.0    43.4 10050.0    42.0 10099.0
GR  41.4 10109.0    36.6 10134.0    30.5 10170.0    28.8 10190.0    22.0 10210.0
GR  16.9 10230.0    10.0 10250.0     5.0 10269.0     2.9 10290.0    -3.9 10310.0
GR  -4.1 10330.0    -7.0 10351.0    -6.1 10370.0    -7.9 10389.0   -10.0 10429.0
GR -10.1 10470.0   -11.1 10489.0   -11.1 10509.0    -9.2 10549.0   -11.2 10571.0
GR -11.3 10590.0    -7.2 10611.0    -2.0 10631.0     0.0 10649.0     4.1 10669.0
GR  11.8 10690.0    20.0 10710.0    20.9 10730.0    28.9 10750.0    30.8 10752.0
GR  42.1 10774.0    52.1 10788.0    52.8 10887.0    57.8 10987.0    77.8 10989.0
X1 19.22     34.   10124   10737    1214    1214    1214
X3    10
GR  68.4  9898.0    48.4  9900.0    43.4 10000.0    39.5 10124.0    34.9 10134.0
GR  32.6 10150.0    31.8 10178.0    30.8 10184.0    16.2 10240.0     1.2 10275.0
GR   -.8 10279.0   -11.4 10320.0   -13.6 10340.0   -13.5 10380.0   -14.3 10398.0
GR -14.6 10440.0   -13.6 10460.0   -17.2 10481.0   -15.0 10519.0   -16.8 10540.0
GR -15.7 10560.0    -8.8 10599.0     9.3 10639.0    14.1 10659.0    35.7 10699.0
GR  36.5 10725.0    53.1 10737.0    53.6 10774.0    55.7 10779.0    56.6 10789.0
GR  56.8 10808.0    53.7 10824.0    58.7 10924.0    78.7 10926.0
X1 19.44     41.   10199   10768    1162    1162    1162
X3    10
GR  72.6  9898.0    52.6  9900.0    47.6 10000.0    45.4 10050.0    46.4 10116.0
GR  43.1 10132.0    37.4 10149.0    36.9 10164.0    35.4 10173.0    35.4 10199.0
GR  33.1 10218.0    12.6 10271.0     5.3 10291.0     1.1 10309.0    -5.4 10331.0
GR -14.9 10370.0   -14.9 10411.0   -15.9 10430.0   -16.1 10451.0   -17.1 10471.0
GR -15.9 10490.0   -14.0 10510.0   -10.1 10532.0    -4.1 10570.0    -2.1 10609.0
GR    .9 10630.0     5.7 10649.0    11.8 10668.0    15.7 10688.0    21.1 10709.0
GR  30.2 10722.0    34.4 10724.0    43.3 10745.0    50.5 10768.0    53.5 10823.0
GR  55.5 10827.0    56.9 10847.0    56.5 10859.0    52.8 10877.0    57.8 10977.0
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GR  77.8 10979.0
X1 19.67     49.   10241   10834    1214    1214    1214
X3    10
GR  75.0  9848.0    55.0  9850.0    50.0  9950.0    49.6 10001.0    50.1 10050.0
GR  44.6 10081.0    46.6 10102.0    45.1 10150.0    40.1 10200.0    37.2 10225.0
GR  32.6 10241.0    31.2 10256.0    30.8 10267.0    27.2 10280.0    16.3 10301.0
GR  10.0 10320.0     3.9 10341.0     -.9 10359.0   -13.0 10402.0   -15.0 10441.0
GR -15.1 10481.0   -14.1 10501.0   -14.1 10521.0   -12.9 10561.0   -11.0 10581.0
GR -10.1 10600.0    -7.0 10621.0    -4.9 10640.0     0.0 10661.0     9.1 10680.0
GR  12.1 10701.0    18.2 10721.0    21.2 10740.0    23.1 10761.0    23.1 10780.0
GR  31.2 10800.0    39.7 10819.0    46.3 10832.0    50.8 10834.0    50.8 10843.0
GR  52.7 10853.0    53.7 10874.0    56.6 10885.0    56.8 10895.0    56.7 10905.0
GR  51.4 10931.0    52.5 10949.0    57.5 11049.0    77.5 11051.0
X1 19.88     43.   10159   10834    1109    1109    1109
X3    10
GR  75.3  9821.0    55.3  9823.0    50.3  9923.0    49.6  9949.0    50.4 10029.0
GR  48.7 10049.0    48.6 10079.0    46.9 10099.0    39.1 10128.0    38.5 10148.0
GR  37.4 10159.0    33.8 10175.0    17.9 10209.0    13.2 10228.0     2.9 10249.0
GR  -5.8 10268.0   -11.7 10308.0   -12.0 10330.0   -10.7 10348.0   -10.8 10389.0
GR -11.9 10409.0   -10.8 10429.0   -11.9 10448.0   -11.9 10529.0    -3.9 10549.0
GR   3.0 10569.0     9.1 10609.0    15.5 10667.0    23.1 10710.0    26.1 10730.0
GR  30.0 10768.0    30.7 10771.0    31.0 10777.0    40.7 10798.0    55.5 10834.0
GR  56.4 10840.0    56.5 10848.0    56.2 10859.0    55.5 10879.0    55.5 10899.0
GR  55.5 10949.0    60.5 11049.0    80.5 11051.0
X1 20.09     50. 10149.5 10789.1    1109    1109    1109
X3    10
GR  69.6  9887.6    49.6  9889.6    44.6  9989.6    46.1 10015.4    45.5 10049.7
GR  46.1 10089.5    41.6 10119.6    40.1 10149.5    32.1 10178.3    30.9 10178.8
GR  25.8 10189.5    21.0 10210.6    18.0 10230.2     9.1 10249.0     2.4 10272.7
GR  -2.1 10290.8    -5.9 10309.9    -8.9 10368.3    -8.9 10389.2   -10.9 10409.7
GR  -9.9 10429.0   -10.0 10449.9   -11.9 10470.9   -12.0 10490.4   -13.0 10510.3
GR -11.9 10531.7   -12.0 10551.1    -6.8 10569.8    -4.9 10590.1    -2.0 10609.9
GR    .1 10630.2     9.2 10650.2    16.1 10668.8    20.1 10689.5    21.1 10709.4
GR  30.9 10728.9    36.8 10735.6    42.0 10749.8    45.7 10762.1    48.1 10766.4
GR  48.8 10770.9    50.8 10774.8    53.5 10789.1    53.5 10802.6    56.7 10839.2
GR  56.9 10859.1    53.5 10886.2    53.5 10900.1    58.5 11000.1    78.5 11002.1
X1 20.30     44.   10118   10845    1109    1109    1109
X3    10
GR  75.8  9796.0    55.8  9798.0    50.8  9898.0    48.6  9948.0    49.2  9997.0
GR  50.5 10023.0    44.1 10053.0    39.1 10073.0    39.1 10084.0    39.1 10093.0
GR  39.1 10118.0    32.5 10148.0    28.8 10158.0    25.8 10178.0    21.8 10199.0
GR  19.9 10219.0    13.0 10239.0    13.9 10259.0     3.9 10299.0    -2.1 10319.0
GR  -6.1 10340.0    -9.1 10358.0   -10.1 10380.0   -12.1 10400.0   -12.2 10460.0
GR -14.2 10501.0   -14.1 10520.0   -12.1 10540.0   -12.0 10561.0    -9.1 10580.0
GR  -7.1 10600.0    -1.2 10620.0     1.0 10640.0     4.7 10658.0     7.6 10681.0
GR  20.7 10716.0    30.8 10739.0    36.0 10760.0    39.1 10800.0    46.2 10845.0
GR  48.1 10901.0    48.9 10950.0    53.9 11050.0    73.9 11052.0
X1 20.51     57.   10049   10875    1109    1109    1109
X3    10
GR  76.8  9697.0    56.8  9699.0    51.8  9799.0    51.5  9820.0    50.1  9849.0
GR  48.2  9899.0    49.7  9949.0    47.1 10049.0    41.2 10099.0    36.0 10149.0
GR  36.7 10158.0    33.8 10186.0    31.5 10195.0    28.0 10219.0    24.1 10239.0
GR  21.1 10259.0    18.9 10279.0    19.0 10299.0    18.1 10319.0    15.9 10339.0
GR  10.1 10359.0     6.0 10379.0     3.1 10399.0     2.0 10419.0     0.0 10439.0
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GR  -4.0 10459.0    -8.0 10500.0    -8.0 10521.0    -9.0 10539.0   -11.0 10559.0
GR -12.1 10579.0   -12.2 10599.0   -11.0 10619.0   -12.0 10639.0   -12.0 10659.0
GR  -9.9 10699.0    -1.8 10720.0     1.3 10739.0     3.2 10759.0     6.1 10779.0
GR  12.2 10800.0    15.2 10819.0    25.2 10838.0    30.9 10848.0    38.3 10858.0
GR  41.7 10868.0    42.3 10875.0    42.3 10877.0    42.3 10899.0    42.3 10919.0
GR  42.3 10959.0    44.8 10975.0    48.0 11024.0    58.0 11072.0    61.3 11098.0
GR  66.3 11198.0    86.3 11200.0
X1 20.70     56.   10076   10901    1003    1003    1003
X3    10
GR  61.5  9796.0    41.5  9798.0    36.5  9898.0    42.7  9948.0    41.9  9997.0
GR  35.6 10019.0    33.8 10049.0    31.8 10076.0    30.6 10093.0    30.0 10098.0
GR  28.1 10139.0    25.0 10158.0    21.1 10178.0    20.0 10199.0    11.1 10258.0
GR   9.9 10279.0     1.3 10338.0     2.2 10359.0     1.8 10380.0     -.3 10399.0
GR  -3.0 10420.0    -3.0 10460.0    -8.0 10479.0   -12.1 10519.0   -10.1 10539.0
GR -10.2 10560.0   -11.1 10579.0   -11.3 10600.0   -12.1 10621.0   -11.2 10640.0
GR -12.3 10660.0   -11.2 10680.0    -7.2 10701.0    -6.3 10721.0     -.2 10740.0
GR   3.8 10761.0     8.2 10777.0    15.6 10800.0    20.7 10820.0    29.3 10837.0
GR  39.4 10851.0    42.1 10860.0    45.9 10881.0    51.5 10901.0    52.4 10910.0
GR  51.9 10922.0    51.5 10941.0    51.5 10951.0    51.5 10967.0    51.5 10982.0
GR  51.5 11001.0    51.5 11041.0    51.5 11061.0    61.2 11100.0    66.2 11200.0
GR  86.2 11202.0
X1 20.78     43.   10049   10856     422     422     422
X3    10
GR  74.2  9721.0    54.2  9723.0    49.2  9823.0    48.5  9899.0    48.3  9949.0
GR  48.8 10000.0    48.6 10024.0    41.6 10049.0    30.7 10100.0    25.7 10149.0
GR  21.1 10169.0    17.9 10190.0    13.8 10210.0     8.8 10229.0     1.8 10250.0
GR   1.9 10269.0    -2.0 10289.0    -2.1 10309.0    -1.0 10331.0    -2.1 10350.0
GR  -6.1 10370.0    -8.0 10390.0    -8.9 10409.0   -11.1 10430.0   -12.1 10451.0
GR -10.1 10470.0   -10.2 10529.0    -9.2 10549.0    -9.1 10610.0    -6.9 10630.0
GR   -.9 10670.0     3.1 10691.0    14.8 10729.0    23.1 10750.0    30.6 10768.0
GR  34.1 10796.0    38.7 10810.0    41.7 10830.0    46.5 10856.0    51.5 10881.0
GR  52.4 10949.0    57.4 11049.0    77.4 11051.0
X1 20.90     41.   10119   10838     634     634     634
X3    10
GR  75.3  9797.0    55.3  9799.0    50.3  9899.0    49.8  9950.0    47.9 10001.0
GR  42.9 10050.0    43.3 10100.0    39.2 10119.0    30.5 10153.0    24.9 10160.0
GR  16.8 10201.0     3.9 10240.0      .1 10261.0    -3.8 10280.0    -4.8 10300.0
GR  -8.7 10321.0    -9.7 10339.0    -9.6 10360.0   -10.8 10380.0   -12.8 10401.0
GR -12.8 10442.0   -14.0 10460.0   -13.9 10520.0   -12.8 10541.0   -10.7 10561.0
GR  -6.7 10582.0    -3.8 10601.0     5.0 10622.0    15.1 10640.0    26.4 10679.0
GR  30.7 10696.0    33.7 10726.0    34.4 10750.0    40.3 10800.0    52.1 10838.0
GR  52.2 10850.0    52.1 10883.0    52.1 10891.0    52.1 10941.0    57.1 11041.0
GR  77.1 11043.0
X1 21.08     39.   10098   10849     950     950     950
X3    10
GR  74.7  9846.0    54.7  9848.0    49.7  9948.0    49.4  9999.0    50.9 10049.0
GR  42.0 10098.0    38.3 10139.0    37.1 10169.0    30.6 10215.0    14.0 10268.0
GR  -1.0 10309.0    -9.9 10329.0   -13.2 10350.0   -15.0 10370.0   -15.1 10390.0
GR -14.1 10410.0   -14.1 10430.0   -15.0 10450.0   -15.0 10470.0   -16.0 10490.0
GR -16.1 10550.0   -15.2 10570.0   -11.0 10589.0    -8.1 10610.0    -4.2 10630.0
GR   5.0 10650.0    11.0 10670.0    15.0 10690.0    30.2 10729.0    34.1 10789.0
GR  39.8 10808.0    48.7 10849.0    49.5 10866.0    48.7 10893.0    48.7 10900.0
GR  48.7 10948.0    48.7 10970.0    53.7 11070.0    73.7 11072.0
X1 21.30     42.   10029   10809    1162    1162    1162
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X3    10
GR  76.3  9827.0    56.3  9829.0    51.3  9929.0    51.3  9949.0    51.3  9999.0
GR  51.3 10029.0    43.3 10048.0    33.6 10148.0    30.6 10178.0    25.2 10189.0
GR  16.8 10209.0    14.1 10230.0     8.0 10250.0     4.0 10270.0     3.0 10290.0
GR   1.0 10309.0      .1 10329.0    -7.1 10350.0   -12.0 10371.0   -13.9 10390.0
GR -11.9 10430.0   -12.0 10450.0   -13.0 10471.0   -13.0 10530.0   -11.0 10570.0
GR  -6.1 10589.0    -2.1 10610.0     3.1 10631.0     5.0 10649.0    12.3 10670.0
GR  17.2 10690.0    25.1 10709.0    29.1 10729.0    30.9 10764.0    34.2 10787.0
GR  39.8 10809.0    52.1 10855.0    45.9 10877.0    44.4 10899.0    42.8 10949.0
GR  47.8 11049.0    67.8 11051.0
X1 21.52     45.   10027   10896    1162    1162    1162
X3    10
GR  74.5  9817.0    54.5  9819.0    49.5  9919.0    49.5  9948.0    49.9  9998.0
GR  49.5 10027.0    42.8 10058.0    41.1 10097.0    37.1 10148.0    30.6 10178.0
GR  22.8 10180.0    14.8 10200.0     9.7 10219.0     6.8 10240.0     4.6 10279.0
GR    .7 10319.0    -2.2 10340.0    -6.3 10360.0   -11.1 10380.0   -12.2 10400.0
GR -10.1 10420.0   -13.0 10479.0   -13.0 10500.0   -14.1 10519.0   -13.0 10540.0
GR -11.4 10561.0    -6.2 10579.0     5.0 10599.0     4.6 10620.0     6.9 10658.0
GR   8.9 10680.0    12.3 10700.0    14.0 10719.0    18.0 10739.0    28.0 10758.0
GR  30.7 10783.0    33.9 10799.0    38.6 10839.0    51.5 10896.0    52.2 10902.0
GR  51.5 10915.0    51.5 10948.0    51.5 10997.0    56.5 11097.0    76.5 11099.0
X1 21.70     41.   10080   10790     950     950     950
X3    10
GR  74.2  9763.0    54.2  9765.0    49.2  9865.0    48.8  9899.0    49.4  9949.0
GR  49.0  9965.0    45.8 10000.0    38.3 10049.0    38.3 10080.0    29.6 10109.0
GR  15.0 10150.0    12.0 10170.0     8.2 10190.0     4.9 10250.0     -.9 10290.0
GR  -6.8 10310.0   -12.1 10331.0    -9.9 10352.0    -8.9 10370.0   -10.0 10392.0
GR -10.1 10432.0    -8.9 10451.0    -4.9 10471.0    -3.9 10490.0     4.0 10570.0
GR   5.3 10593.0     6.8 10611.0    10.2 10632.0    14.2 10652.0    20.9 10671.0
GR  27.2 10690.0    30.2 10711.0    34.3 10767.0    36.9 10790.0    45.9 10850.0
GR  51.1 10866.0    47.5 10898.0    44.0 10950.0    43.6 10965.0    48.6 11065.0
GR  68.6 11067.0
X1 21.92     48.   10159   10923    1162    1162    1162
X3    10
GR  73.4  9818.0    53.4  9820.0    48.4  9920.0    46.7  9950.0    48.8 10000.0
GR  48.7 10020.0    45.1 10049.0    41.5 10100.0    40.3 10159.0    38.0 10174.0
GR  35.0 10176.0    33.9 10180.0    21.8 10199.0    17.9 10220.0    14.8 10239.0
GR   9.9 10258.0     2.0 10300.0    -5.1 10319.0   -11.1 10340.0   -11.0 10380.0
GR -12.1 10400.0   -12.1 10460.0   -10.0 10479.0   -10.0 10519.0    -5.0 10539.0
GR  -3.0 10560.0    -3.0 10580.0    -2.2 10599.0     0.0 10619.0     4.9 10638.0
GR   6.0 10659.0    10.9 10678.0    15.1 10699.0    21.3 10720.0    29.2 10737.0
GR  32.3 10759.0    33.1 10780.0    32.1 10799.0    35.3 10812.0    40.4 10838.0
GR  46.1 10899.0    51.4 10923.0    51.4 10948.0    51.4 10961.0    51.4 10998.0
GR  51.4 11023.0    56.4 11123.0    76.4 11125.0
X1 22.11     37.   10018   10839    1003    1003    1003
X3    10
GR  61.2  9846.0    41.2  9848.0    36.2  9948.0    36.2 10003.0    36.2 10018.0
GR  34.8 10031.0    31.8 10048.0    32.7 10069.0    32.7 10109.0    20.8 10129.0
GR  19.7 10149.0     7.9 10209.0     6.1 10229.0     7.0 10251.0     6.0 10270.0
GR   2.0 10290.0   -10.7 10330.0   -10.7 10451.0   -11.7 10472.0    -5.7 10490.0
GR  -5.9 10510.0    -2.9 10531.0     3.0 10591.0    10.9 10630.0    25.1 10670.0
GR  30.0 10689.0    32.0 10710.0    30.1 10730.0    31.9 10750.0    35.3 10754.0
GR  39.0 10789.0    51.4 10839.0    51.5 10849.0    51.4 10899.0    51.4 10948.0
GR  56.4 11048.0    76.4 11050.0
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X1 22.30     39. 10050.6 10842.9    1003    1003    1003
X3    10
GR  75.0  9847.9    55.0  9849.9    50.0  9949.9    41.2  9999.8    41.2 10050.6
GR  36.5 10099.9    39.5 10119.7    37.3 10135.2    35.6 10135.7    25.1 10150.3
GR  15.0 10170.4    11.0 10190.4     7.2 10230.7     7.2 10252.1     5.1 10270.1
GR  -1.7 10291.6   -10.8 10311.1   -13.0 10331.6   -12.8 10372.4   -11.8 10391.2
GR -12.0 10471.8    -8.0 10509.1    -7.0 10531.5    -5.0 10550.3     0.0 10570.1
GR   3.1 10592.0     7.1 10611.3    12.3 10631.6    20.2 10650.9    35.6 10672.0
GR  41.2 10750.1    42.8 10800.3    51.0 10842.9    51.0 10850.4    51.0 10895.7
GR  51.0 10899.7    51.0 10949.5    56.0 11049.5    76.0 11051.5
X1 22.52     45.   10137   10854    1162    1162    1162
X3    10
GR  66.3  9846.0    46.3  9848.0    41.3  9948.0    48.4 10000.0    47.2 10049.0
GR  42.7 10099.0    41.3 10137.0    33.7 10142.0    32.7 10150.0    33.7 10187.0
GR  35.3 10198.0    25.9 10219.0    15.0 10239.0    10.1 10260.0    10.1 10299.0
GR   4.3 10319.0     4.1 10359.0     2.2 10381.0    -6.9 10400.0   -10.7 10419.0
GR -13.7 10440.0   -12.8 10460.0   -13.0 10480.0   -11.8 10500.0   -12.9 10525.0
GR -12.8 10540.0    -8.9 10561.0    -7.0 10580.0    -5.8 10600.0     1.9 10620.0
GR    .3 10639.0     2.2 10661.0     5.0 10680.0    12.2 10700.0    20.3 10719.0
GR  31.2 10740.0    33.1 10760.0    33.0 10780.0    35.4 10783.0    38.8 10800.0
GR  51.8 10854.0    51.8 10900.0    51.8 10959.0    56.8 11059.0    76.8 11061.0
X1 22.72     39.   10100   10817    1056    1056    1056
X3    10
GR  70.5  9897.0    50.5  9899.0    45.5  9999.0    46.1 10050.0    45.5 10100.0
GR  39.2 10150.0    35.4 10166.0    19.9 10200.0    13.0 10221.0     8.0 10241.0
GR  -6.2 10280.0   -10.1 10320.0    -9.0 10340.0   -12.1 10361.0   -12.1 10440.0
GR -10.1 10479.0   -11.2 10499.0   -11.1 10520.0   -10.2 10539.0    -4.1 10559.0
GR  -1.0 10579.0     2.9 10600.0     5.0 10619.0     8.0 10640.0    13.0 10660.0
GR  21.0 10679.0    31.2 10698.0    33.1 10720.0    32.2 10739.0    35.6 10747.0
GR  42.1 10783.0    48.8 10800.0    52.1 10817.0    52.6 10840.0    52.1 10851.0
GR  52.1 10900.0    52.1 10919.0    57.1 11019.0    77.1 11021.0
X1 22.92     33.   10127   10794    1056    1056    1056
X3    10
GR  73.0  9927.0    53.0  9929.0    48.0 10029.0    48.0 10049.0    48.0 10099.0
GR  48.0 10127.0    43.0 10150.0    38.3 10199.0    36.7 10224.0    35.5 10229.0
GR  23.3 10249.0    14.1 10270.0     8.1 10289.0     2.1 10330.0    -4.1 10350.0
GR  -7.9 10370.0   -15.0 10430.0   -14.8 10571.0   -12.9 10610.0    -8.8 10630.0
GR  -5.8 10649.0     0.0 10668.0    13.9 10688.0    26.8 10728.0    31.1 10748.0
GR  36.1 10763.0    39.4 10768.0    43.2 10794.0    43.2 10799.0    43.2 10847.0
GR  43.2 10897.0    48.2 10997.0    68.2 10999.0
X1 23.13     39.   10050   10816    1109    1109    1109
X3    10
GR  72.2  9873.0    52.2  9875.0    47.2  9975.0    44.1 10000.0    41.7 10050.0
GR  33.7 10100.0    33.8 10150.0    36.6 10170.0    35.3 10171.0    18.0 10211.0
GR   8.0 10250.0    -4.0 10330.0    -4.8 10350.0    -7.9 10370.0   -14.9 10390.0
GR -13.9 10411.0   -13.8 10430.0   -14.9 10451.0   -13.7 10470.0   -11.8 10491.0
GR -13.9 10511.0   -10.9 10540.0    -9.0 10550.0    -8.1 10570.0     3.1 10611.0
GR   4.0 10631.0     7.1 10651.0    16.3 10690.0    31.1 10710.0    31.2 10730.0
GR  32.0 10750.0    35.5 10758.0    37.3 10770.0    42.4 10816.0    42.4 10850.0
GR  45.6 10899.0    47.8 10921.0    52.8 11021.0    72.8 11023.0
X1 23.31     41.   10098   10764     950     950     950
X3    10
GR  64.8  9894.0    44.8  9896.0    39.8  9996.0    39.8 10046.0    39.8 10098.0
GR  37.4 10107.0    35.1 10112.0    18.7 10138.0    13.0 10158.0    10.0 10179.0
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GR   4.8 10199.0    -1.0 10259.0    -3.7 10276.0    -5.9 10298.0   -14.9 10319.0
GR -15.0 10340.0   -16.0 10359.0   -14.9 10379.0   -15.9 10400.0   -18.0 10420.0
GR -16.8 10440.0   -14.9 10460.0   -14.9 10480.0    -9.1 10499.0    -5.2 10518.0
GR   7.9 10559.0    12.1 10581.0    14.1 10599.0    18.0 10618.0    23.9 10639.0
GR  31.5 10678.0    34.3 10698.0    35.6 10700.0    37.6 10719.0    45.5 10748.0
GR  50.7 10764.0    51.7 10798.0    56.2 10847.0    55.1 10862.0    60.1 10962.0
GR  80.1 10964.0
X1 23.42     45.   10139   10799     581     581     581
X3    10
GR  67.1  9937.0    47.1  9939.0    42.1 10039.0    42.1 10048.0    42.1 10099.0
GR  42.1 10139.0    37.5 10149.0    35.4 10156.0    26.1 10169.0    19.1 10189.0
GR   8.9 10229.0     3.0 10250.0    -3.9 10269.0    -5.8 10288.0    -9.7 10309.0
GR -13.0 10330.0   -16.9 10351.0   -21.0 10389.0   -20.9 10430.0   -22.9 10451.0
GR -16.9 10491.0    -5.8 10510.0    -5.8 10529.0     3.1 10550.0     3.0 10569.0
GR  13.0 10609.0    17.1 10630.0    19.1 10650.0    20.3 10670.0    26.2 10690.0
GR  35.5 10714.0    38.5 10729.0    38.7 10749.0    39.5 10759.0    45.9 10781.0
GR  52.5 10799.0    52.5 10813.0    56.5 10826.0    56.9 10832.0    57.2 10842.0
GR  56.6 10854.0    52.9 10873.0    55.6 10899.0    60.6 10999.0    80.6 11001.0
X1 23.63     44.   10069   10769    1109    1109    1109
X3    10
GR  68.5  9867.0    48.5  9869.0    43.5  9969.0    43.9  9998.0    42.6 10048.0
GR  42.6 10069.0    35.2 10101.0    22.0 10140.0    15.9 10160.0    12.1 10181.0
GR   6.0 10200.0     -.1 10230.0    -3.3 10251.0    -7.0 10260.0    -7.1 10300.0
GR  -8.1 10321.0   -10.1 10340.0   -11.2 10361.0   -13.1 10381.0   -12.9 10421.0
GR -14.1 10441.0   -13.0 10462.0   -14.0 10481.0   -12.0 10502.0    -3.1 10562.0
GR  -1.2 10580.0     3.1 10602.0     8.0 10622.0    10.1 10641.0    13.1 10661.0
GR  19.0 10681.0    24.1 10701.0    33.3 10721.0    35.8 10729.0    44.5 10740.0
GR  47.1 10751.0    53.4 10769.0    54.0 10795.0    57.6 10813.0    57.8 10823.0
GR  57.4 10833.0    54.6 10844.0    59.6 10944.0    79.6 10946.0
X1 23.82     36.   10098   10814    1003    1003    1003
X3    10
GR  75.6  9947.0    55.6  9949.0    50.6 10049.0    49.5 10098.0    42.5 10148.0
GR  37.3 10198.0    37.6 10228.0    35.3 10259.0    25.9 10279.0    20.0 10299.0
GR  11.9 10319.0     0.0 10359.0    -3.1 10380.0    -7.1 10399.0    -8.9 10419.0
GR -15.1 10480.0   -18.1 10541.0   -18.1 10561.0   -19.0 10579.0   -19.2 10600.0
GR -20.2 10619.0   -19.2 10641.0   -17.2 10660.0   -14.9 10679.0    -3.6 10701.0
GR   4.8 10719.0    12.0 10740.0    20.2 10759.0    32.2 10780.0    35.7 10789.0
GR  46.2 10800.0    53.4 10814.0    53.5 10899.0    53.4 10914.0    58.4 11014.0
GR  78.4 11016.0
X1 24.00     42.   10064   10859     950     950     950
X3    10
GR  78.6  9862.0    58.6  9864.0    53.6  9964.0    53.6 10001.0    53.6 10023.0
GR  53.6 10050.0    53.6 10064.0    47.1 10085.0    40.9 10099.0    37.0 10119.0
GR  37.2 10150.0    35.4 10180.0    31.7 10200.0    27.0 10220.0    23.1 10260.0
GR  15.7 10280.0    10.2 10300.0     2.9 10321.0     1.9 10340.0    -9.2 10380.0
GR -18.1 10441.0   -20.2 10461.0   -22.3 10501.0   -22.3 10521.0   -21.1 10541.0
GR -19.2 10580.0   -19.1 10601.0   -18.2 10621.0   -14.1 10641.0    -6.9 10660.0
GR   -.1 10680.0    16.2 10743.0    21.0 10760.0    24.0 10780.0    28.1 10818.0
GR  32.9 10839.0    43.7 10859.0    48.3 10899.0    48.7 10919.0    49.8 10938.0
GR  54.8 11038.0    74.8 11040.0
X1 24.20     43.   10035   10902    1056    1056    1056
X3    10
GR  76.3  9834.0    56.3  9836.0    51.3  9936.0    51.3  9948.0    51.3  9998.0
GR  51.3 10035.0    48.2 10049.0    42.3 10067.0    39.2 10099.0    35.5 10113.0
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GR  33.2 10129.0    22.9 10169.0     8.1 10209.0     3.0 10229.0    -4.7 10269.0
GR  -6.7 10290.0    -9.8 10310.0   -11.8 10330.0   -12.9 10348.0   -14.8 10389.0
GR -14.9 10410.0   -16.9 10449.0   -16.8 10530.0   -15.7 10550.0   -15.9 10570.0
GR -14.8 10590.0   -15.0 10629.0   -13.7 10649.0   -11.6 10670.0    -6.6 10691.0
GR  -2.7 10710.0     4.1 10729.0    16.2 10789.0    17.4 10809.0    25.3 10828.0
GR  31.3 10849.0    35.6 10861.0    40.9 10878.0    45.7 10902.0    47.4 10948.0
GR  48.3 10999.0    53.3 11099.0    73.3 11101.0
X1 24.39     50.   10001   11099    1003    1003    1003
X3    10
GR  75.8  9797.0    55.8  9799.0    50.8  9899.0    49.0  9951.0    49.0 10001.0
GR  42.2 10031.0    40.0 10049.0    38.5 10069.0    35.4 10099.0    28.7 10110.0
GR  22.1 10131.0    22.2 10150.0    16.2 10170.0    10.1 10208.0     8.1 10230.0
GR   4.9 10249.0     1.1 10269.0    -2.6 10309.0    -6.0 10368.0    -5.9 10427.0
GR  -2.8 10489.0    -4.9 10527.0    -3.8 10548.0    -4.8 10566.0    -4.9 10588.0
GR  -7.0 10609.0    -5.8 10628.0    -7.9 10649.0    -7.9 10669.0    -9.0 10689.0
GR  -9.0 10729.0   -10.1 10746.0    -9.7 10808.0    -7.0 10868.0    -3.9 10888.0
GR   2.3 10909.0     6.9 10928.0    13.2 10947.0    15.0 10967.0    18.0 10988.0
GR  23.1 11007.0    27.1 11028.0    33.4 11047.0    35.5 11062.0    41.2 11078.0
GR  45.6 11099.0    45.8 11147.0    46.5 11197.0    51.5 11297.0    71.5 11299.0
X1 24.62     61.   10039   11248    1214    1214    1214
X3    10
GR  65.5  9937.0    45.5  9939.0    40.5 10039.0    37.9 10074.0    35.4 10094.0
GR  33.9 10099.0    32.1 10119.0    21.9 10139.0    21.0 10159.0     8.6 10219.0
GR   5.5 10240.0     1.7 10259.0    -1.3 10279.0     -.3 10299.0     -.4 10339.0
GR  -1.5 10359.0    -1.4 10399.0    -2.4 10419.0    -8.1 10442.0   -11.3 10459.0
GR -12.4 10479.0    -6.2 10539.0    -5.2 10559.0    -6.4 10580.0    -8.3 10599.0
GR  -8.0 10658.0   -10.3 10679.0    -5.1 10698.0    -6.9 10719.0    -7.1 10739.0
GR  -8.1 10759.0   -10.9 10779.0   -15.1 10800.0   -10.1 10819.0   -11.3 10839.0
GR -11.1 10859.0   -10.3 10879.0   -10.0 10899.0   -10.1 10919.0    -8.0 10939.0
GR   3.0 10959.0    10.1 10979.0    12.0 10998.0    17.2 11019.0    21.2 11039.0
GR  24.5 11061.0    29.0 11080.0    30.1 11099.0    30.1 11140.0    29.3 11159.0
GR  32.3 11178.0    33.4 11199.0    35.6 11213.0    43.8 11248.0    46.8 11348.0
GR  48.0 11399.0    48.0 11448.0    58.3 11498.0    59.2 11549.0    64.2 11649.0
GR  84.2 11651.0
X1 25.12     48.   10024   11035    2640    2640    2640
X3    10
X5     5      34      34      34      34      34
X5
GR  75.1  9797.0    55.1  9799.0    50.1  9899.0    49.4 10000.0    49.4 10024.0
GR  46.5 10039.0    40.0 10063.0    38.8 10073.0    34.1 10081.0    30.1 10098.0
GR  26.8 10118.0    24.8 10140.0    22.9 10158.0    23.1 10179.0    10.9 10300.0
GR   5.1 10338.0     3.0 10360.0    -2.1 10459.0    -6.1 10499.0   -10.9 10600.0
GR  -9.9 10620.0    -6.0 10640.0    -3.1 10658.0    -3.0 10678.0    -4.9 10698.0
GR  -4.1 10719.0    -4.3 10779.0     4.1 10800.0    11.0 10818.0    16.8 10840.0
GR  25.2 10859.0    30.0 10878.0    32.9 10898.0    34.1 10915.0    35.3 10983.0
GR  37.6 10998.0    47.8 11035.0    49.4 11099.0    51.9 11148.0    53.6 11178.0
GR  55.6 11197.0    57.6 11236.0    59.7 11257.0    61.3 11296.0    61.8 11348.0
GR  62.0 11398.0    67.0 11498.0    87.0 11500.0
X1 25.33     49.   10085   11024    1109    1109    1109
X3    10
GR  77.0  9873.0    57.0  9875.0    52.0  9975.0    49.8 10001.0    48.1 10050.0
GR  48.1 10085.0    44.3 10099.0    38.6 10127.0    35.8 10138.0    34.0 10142.0
GR  32.9 10161.0    30.0 10180.0    27.8 10200.0    26.8 10221.0    20.5 10281.0
GR  17.9 10301.0    13.9 10339.0    12.8 10361.0     9.0 10400.0     7.9 10420.0
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GR   4.1 10460.0     2.9 10479.0    -2.0 10500.0    -3.9 10541.0    -5.7 10559.0
GR  -5.9 10580.0    -8.7 10600.0    -8.9 10621.0   -10.8 10641.0    -9.8 10662.0
GR  -8.7 10680.0    -8.8 10781.0    -8.1 10800.0     -.9 10821.0     5.0 10840.0
GR  12.8 10861.0    22.1 10900.0    26.9 10919.0    32.9 10940.0    33.8 10954.0
GR  40.6 10975.0    50.7 11024.0    52.3 11049.0    54.1 11149.0    54.7 11200.0
GR  56.0 11250.0    57.2 11281.0    62.2 11381.0    82.2 11383.0
X1 25.52     54.    9948   11288    1003    1003    1003
X3    10
GR  71.3  9797.0    51.3  9799.0    46.3  9899.0    46.3  9948.0    42.2  9999.0
GR  40.5 10049.0    40.6 10089.0    39.4 10099.0    34.2 10129.0    32.2 10149.0
GR  26.1 10169.0    22.1 10188.0    19.2 10210.0    17.1 10229.0    13.0 10249.0
GR  11.5 10269.0     8.1 10329.0     8.1 10349.0     5.2 10409.0     1.6 10449.0
GR  -5.0 10490.0    -6.8 10511.0    -5.0 10531.0    -5.7 10550.0    -4.9 10570.0
GR  -1.7 10591.0     3.2 10610.0     4.1 10630.0     4.3 10669.0     3.2 10690.0
GR   4.3 10710.0     2.2 10749.0     2.4 10770.0     1.0 10789.0     2.1 10811.0
GR   0.0 10850.0    -2.9 10870.0    -2.8 10891.0    -4.8 10929.0    -4.9 11070.0
GR   0.0 11089.0     1.1 11110.0    11.3 11129.0    14.2 11150.0    22.1 11170.0
GR  27.2 11190.0    33.1 11208.0    34.2 11224.0    37.9 11249.0    41.6 11258.0
GR  47.2 11288.0    47.8 11388.0    52.8 11488.0    72.8 11490.0
X1 25.72     54.   10048   11080    1056    1056    1056
X3    10
GR  76.3  9845.0    56.3  9847.0    51.3  9947.0    51.3  9966.0    52.0  9978.0
GR  53.1  9998.0    51.3 10048.0    47.2 10079.0    33.7 10127.0    32.8 10140.0
GR  28.6 10160.0    27.7 10178.0    28.7 10199.0    33.6 10219.0    33.3 10239.0
GR  33.7 10260.0    33.9 10307.0    33.4 10321.0    32.6 10337.0    30.8 10359.0
GR  27.7 10379.0    25.9 10398.0    22.6 10420.0    19.0 10438.0    16.8 10459.0
GR  -3.2 10561.0    -5.1 10579.0   -10.0 10600.0   -12.1 10621.0   -14.9 10641.0
GR -17.3 10680.0   -20.2 10701.0   -22.0 10721.0   -21.1 10740.0   -22.0 10761.0
GR -14.0 10803.0    -8.8 10822.0    -6.0 10841.0    -1.9 10860.0     6.0 10882.0
GR  10.3 10902.0    14.9 10921.0    26.1 10961.0    29.9 10981.0    31.8 11002.0
GR  32.9 11021.0    34.0 11022.0    40.9 11050.0    41.9 11080.0    42.8 11104.0
GR  41.9 11150.0    41.9 11180.0    46.9 11280.0    66.9 11282.0
X1 25.92     43.   10100   11109    1056    1056    1056
X3    10
GR  75.3  9848.0    55.3  9850.0    50.3  9950.0    50.3 10001.0    53.1 10050.0
GR  50.3 10100.0    41.2 10149.0    37.1 10200.0    37.3 10250.0    33.9 10266.0
GR  28.0 10279.0    14.3 10301.0     4.9 10320.0    -5.0 10359.0    -8.1 10419.0
GR  -8.0 10459.0    -9.1 10479.0    -8.1 10499.0   -12.2 10539.0   -13.1 10558.0
GR -13.2 10580.0   -16.2 10640.0   -22.3 10679.0   -23.3 10700.0   -25.3 10719.0
GR -10.2 10780.0     9.9 10840.0    15.0 10861.0    19.1 10881.0    21.1 10901.0
GR  22.0 10921.0    27.9 10961.0    30.0 10982.0    33.5 11004.0    44.9 11100.0
GR  48.3 11109.0    48.3 11120.0    48.3 11129.0    48.3 11156.0    48.3 11202.0
GR  48.3 11211.0    53.3 11311.0    73.3 11313.0
X1 26.13     36. 10024.7 10789.6    1109    1109    1109
X3    10
GR  75.4  9848.2    55.4  9850.2    50.4  9950.2    50.6 10000.9    49.8 10024.7
GR  46.3 10050.6    45.3 10060.0    40.1 10085.4    33.9 10085.9    29.3 10100.3
GR  19.1 10119.7    13.1 10140.6     3.2 10202.3     1.2 10219.2    -2.9 10240.5
GR  -3.8 10259.9    -5.9 10280.3    -3.8 10300.7    -5.8 10338.4    -6.0 10481.6
GR  -1.9 10520.8     1.8 10540.2     4.0 10561.1     4.1 10580.9    11.1 10601.8
GR  22.1 10622.1    30.2 10641.0    32.8 10661.4    32.9 10680.3    34.1 10684.7
GR  36.5 10752.3    38.8 10789.6    38.9 10801.5    38.8 10852.2    43.8 10952.2
GR  63.8 10954.2
X1 26.32     35.   10151   10800    1003    1003    1003
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X3    10
GR  68.1  9898.0    48.1  9900.0    43.1 10000.0    41.3 10051.0    44.2 10100.0
GR  40.6 10151.0    33.6 10163.0    30.6 10181.0    12.8 10241.0     8.7 10259.0
GR   2.6 10301.0     1.6 10320.0     1.6 10340.0    -1.5 10400.0    -3.5 10419.0
GR  -4.2 10440.0    -2.4 10459.0    -2.4 10480.0    -3.4 10501.0    -7.8 10544.0
GR  -9.6 10580.0    -9.4 10600.0    -8.3 10621.0    -4.4 10640.0    -4.3 10660.0
GR  -7.4 10681.0    -1.6 10700.0    -2.5 10719.0    31.5 10779.0    33.5 10784.0
GR  38.7 10788.0    41.2 10800.0    41.2 10898.0    46.2 10998.0    66.2 11000.0
X1 26.51     43.   10033   10940    1003    1003    1003
X3    10
GR  70.8  9832.0    50.8  9834.0    45.8  9934.0    46.7  9949.0    45.8  9998.0
GR  45.8 10033.0    43.2 10049.0    40.1 10099.0    39.2 10149.0    33.9 10161.0
GR  33.9 10170.0    31.0 10189.0    19.1 10232.0    15.8 10250.0    14.9 10269.0
GR   9.0 10289.0     8.8 10310.0    10.1 10329.0    10.1 10389.0     8.8 10409.0
GR   3.9 10429.0     4.8 10449.0     4.9 10469.0     5.9 10490.0      .6 10592.0
GR  -4.2 10610.0    -6.3 10630.0    -3.9 10670.0    -4.0 10690.0    -6.1 10709.0
GR  -6.1 10729.0    -8.1 10749.0    -7.9 10770.0    -5.0 10790.0    -1.4 10810.0
GR   6.3 10829.0    13.8 10849.0    26.8 10869.0    31.8 10891.0    51.2 10940.0
GR  53.4 10999.0    58.4 11099.0    78.4 11101.0
X1 26.70     39. 10068.5 10988.4    1003    1003    1003
X3    10
GR  71.7  9897.4    51.7  9899.4    46.7  9999.4    46.7 10049.1    46.7 10068.5
GR  42.5 10099.2    41.0 10149.9    38.6 10199.6    34.0 10218.9    32.0 10239.3
GR  25.0 10259.1    14.8 10298.3    12.2 10317.7     8.8 10378.8     9.3 10398.6
GR   7.0 10440.4     7.1 10458.8     3.0 10478.1     2.0 10498.0    -2.0 10538.7
GR  -2.2 10558.6    -5.4 10619.2    -1.1 10640.1    -1.2 10698.2    -5.4 10719.1
GR  -7.3 10759.3    -6.2 10778.7    -4.2 10799.6     4.9 10818.5     9.9 10838.5
GR  27.9 10878.4    33.1 10899.3    33.8 10900.3    43.1 10973.9    49.3 10988.4
GR  49.3 10998.8    49.3 11038.2    54.3 11138.2    74.3 11140.2
X1 26.91     47.   10068   10868    1109    1109    1109
X3    10
GR  71.7  9806.0    51.7  9808.0    46.7  9908.0    48.3  9997.0    47.4 10007.0
GR  42.3 10048.0    42.3 10068.0    39.4 10098.0    34.2 10121.0    32.0 10138.0
GR  16.7 10179.0    12.0 10198.0    10.1 10219.0     8.8 10238.0     6.9 10279.0
GR   9.9 10299.0     9.9 10318.0     8.7 10338.0     9.8 10359.0     9.0 10378.0
GR   8.8 10418.0     6.8 10439.0     7.9 10458.0     7.9 10479.0     6.9 10499.0
GR   7.0 10519.0     6.0 10540.0    -1.2 10579.0    -1.0 10659.0    -2.1 10677.0
GR  -2.1 10698.0     -.8 10719.0     8.1 10759.0    15.0 10779.0    25.2 10799.0
GR  33.0 10818.0    33.1 10838.0    34.2 10840.0    42.0 10859.0    50.8 10868.0
GR  50.8 10878.0    50.8 10898.0    50.8 10916.0    50.8 10949.0    50.8 10979.0
GR  55.8 11079.0    75.8 11081.0
X1 27.10     44.   10064   10828    1003    1003    1003
X3    10
GR  73.5  9862.0    53.5  9864.0    48.5  9964.0    48.9  9999.0    49.2 10048.0
GR  48.5 10064.0    41.6 10088.0    39.9 10098.0    38.9 10148.0    32.9 10159.0
GR  25.0 10179.0    20.1 10199.0    14.0 10218.0     8.1 10238.0     7.9 10258.0
GR   7.0 10278.0     7.1 10297.0     5.1 10338.0     2.9 10358.0     1.0 10377.0
GR   0.0 10398.0      .9 10418.0     1.2 10478.0     0.0 10500.0     0.0 10520.0
GR  -2.1 10559.0     -.9 10578.0    -1.2 10598.0    -2.0 10619.0    -5.9 10640.0
GR  -4.8 10660.0     4.1 10679.0     7.2 10698.0     9.2 10718.0    10.2 10738.0
GR  20.2 10759.0    26.3 10774.0    34.2 10795.0    40.7 10816.0    45.7 10828.0
GR  45.7 10847.0    45.7 10898.0    50.7 10998.0    70.7 11000.0
X1 27.30     42.   10249   10850    1056    1056    1056
X3    10
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GR  67.3  9857.0    47.3  9859.0    42.3  9959.0    45.7  9999.0    47.4 10039.0
GR  51.7 10059.0    46.3 10100.0    45.3 10150.0    40.5 10199.0    40.5 10208.0
GR  40.5 10249.0    33.6 10262.0    32.5 10268.0    11.3 10331.0     6.8 10350.0
GR   2.6 10391.0     3.9 10410.0     3.1 10429.0     2.8 10451.0     1.9 10469.0
GR   1.8 10510.0    -2.3 10591.0    -5.2 10611.0    -7.3 10631.0    -6.5 10651.0
GR  -7.5 10671.0   -10.1 10690.0    -5.1 10710.0    -6.3 10732.0    -5.2 10750.0
GR   -.3 10770.0    18.7 10790.0    29.0 10811.0    33.6 10829.0    42.0 10834.0
GR  47.2 10850.0    47.2 10866.0    47.2 10877.0    47.2 10895.0    47.2 10950.0
GR  52.2 11050.0    72.2 11052.0
X1 27.50     45.   10289   10848    1056    1056    1056
X3    10
GR  75.0  9871.0    55.0  9873.0    50.0  9973.0    49.1 10000.0    51.5 10051.0
GR  52.2 10073.0    46.8 10100.0    46.8 10151.0    46.8 10199.0    46.8 10249.0
GR  46.8 10289.0    46.5 10300.0    34.1 10330.0    27.0 10351.0    16.8 10368.0
GR   9.8 10388.0     3.8 10409.0     -.4 10430.0    -7.1 10449.0    -6.0 10470.0
GR  -6.3 10489.0    -6.9 10509.0    -8.3 10528.0    -9.1 10549.0    -8.4 10569.0
GR  -8.1 10589.0    -8.2 10610.0   -10.4 10650.0   -12.2 10670.0   -13.3 10690.0
GR  -9.3 10709.0    -3.1 10750.0      .3 10768.0     6.6 10788.0    18.9 10808.0
GR  30.7 10829.0    34.3 10840.0    43.3 10848.0    44.3 10858.0    51.1 10888.0
GR  46.1 10899.0    43.5 10948.0    44.1 10988.0    49.1 11088.0    69.1 11090.0
X1 27.71     40. 10200.2 10749.5    1109    1109    1109
X3    10
GR  77.1  9848.3    57.1  9850.3    52.1  9950.3    50.5 10000.9    51.9 10041.6
GR  51.3 10050.1    44.7 10100.9    44.7 10151.5    44.7 10200.2    39.9 10230.5
GR  34.5 10232.1    32.1 10241.0    12.0 10282.0     7.0 10301.4     4.0 10321.3
GR  -3.9 10340.3    -9.9 10361.7   -13.0 10381.6   -14.0 10401.5   -13.9 10442.2
GR -11.8 10461.6   -11.9 10501.8   -13.8 10522.2   -13.9 10541.0   -15.1 10561.4
GR -14.9 10580.8   -11.1 10600.6    -5.9 10621.4    -2.7 10641.8     4.2 10661.0
GR  10.3 10681.3    34.5 10714.8    40.8 10749.1    41.1 10749.5    52.7 10779.2
GR  53.5 10798.6    49.7 10849.3    45.9 10880.1    50.9 10980.1    70.9 10982.1
X1 27.89     41.   10170   10699     950     950     950
X3    10
GR  75.6  9798.0    55.6  9800.0    50.6  9900.0    51.1  9950.0    50.9  9992.0
GR  49.4 10000.0    42.5 10025.0    42.5 10051.0    42.5 10082.0    42.5 10100.0
GR  42.5 10170.0    41.3 10185.0    34.3 10197.0    31.0 10210.0    18.7 10230.0
GR   3.8 10269.0     2.9 10290.0   -17.2 10332.0   -18.1 10351.0   -18.0 10370.0
GR -19.0 10391.0   -19.2 10411.0   -17.1 10431.0   -17.1 10452.0   -15.1 10471.0
GR -15.3 10491.0   -16.3 10511.0   -12.1 10531.0   -10.0 10550.0    -5.0 10569.0
GR   4.1 10610.0    24.2 10650.0    34.5 10670.0    43.5 10699.0    45.7 10750.0
GR  52.3 10771.0    52.9 10800.0    50.9 10850.0    47.3 10873.0    52.3 10973.0
GR  72.3 10975.0
X1 28.10     41.   10148   10838    1109    1109    1109
X3    10
GR  74.3  9825.0    54.3  9827.0    49.3  9927.0    51.3  9999.0    53.1 10027.0
GR  46.3 10099.0    43.6 10139.0    43.4 10148.0    40.6 10185.0    34.3 10233.0
GR  26.8 10259.0    17.9 10279.0    13.0 10299.0     6.0 10319.0     5.8 10340.0
GR   4.0 10359.0    -8.0 10380.0   -22.2 10401.0   -25.9 10420.0   -22.8 10440.0
GR -21.0 10460.0   -18.2 10521.0   -15.0 10540.0   -14.2 10562.0   -12.2 10581.0
GR -11.2 10601.0    -5.3 10621.0    -5.1 10641.0    -2.1 10660.0     2.8 10680.0
GR   7.2 10699.0    18.1 10720.0    34.1 10757.0    40.8 10799.0    45.1 10838.0
GR  49.5 10850.0    52.1 10860.0    51.7 10899.0    51.4 10959.0    56.4 11059.0
GR  76.4 11061.0
X1 28.30     35.   10120   10698    1056    1056    1056
X3    10
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GR  67.4  9918.0    47.4  9920.0    42.4 10020.0    42.4 10050.0    42.4 10100.0
GR  42.4 10120.0    41.5 10129.0    34.2 10136.0    33.0 10139.0    22.8 10160.0
GR   8.9 10180.0    -3.3 10199.0   -12.3 10219.0   -20.2 10240.0   -20.3 10260.0
GR -23.2 10278.0   -23.2 10300.0   -22.0 10320.0   -16.2 10381.0   -15.1 10399.0
GR -14.4 10419.0   -14.3 10439.0   -12.2 10479.0    -8.3 10499.0     -.1 10520.0
GR  13.8 10539.0    23.8 10559.0    30.7 10578.0    34.5 10598.0    39.7 10669.0
GR  45.5 10685.0    48.2 10698.0    49.1 10797.0    54.1 10897.0    74.1 10899.0
X1 28.51     35.   10138   10589    1109    1109    1109
X3    10
GR  75.4  9936.0    55.4  9938.0    50.4 10038.0    49.8 10049.0    48.7 10099.0
GR  48.6 10138.0    45.8 10152.0    34.0 10161.0    33.0 10167.0    23.8 10189.0
GR  -4.4 10229.0   -10.8 10248.0   -25.2 10269.0   -24.0 10289.0   -24.3 10309.0
GR -26.3 10328.0   -22.8 10349.0   -18.8 10369.0   -17.0 10389.0   -16.0 10409.0
GR -16.0 10430.0   -15.0 10450.0   -11.1 10489.0    -1.0 10508.0     6.8 10529.0
GR  19.9 10548.0    33.0 10568.0    34.3 10571.0    38.8 10577.0    41.4 10589.0
GR  41.4 10598.0    42.6 10648.0    44.5 10689.0    49.5 10789.0    69.5 10791.0
X1 28.70     34.   10228   10699    1003    1003    1003
X3    10
GR  71.5 10047.0    51.5 10049.0    46.5 10149.0    46.5 10199.0    46.5 10228.0
GR  43.6 10235.0    39.6 10241.0    34.7 10244.0    34.1 10248.0    24.0 10269.0
GR   -.2 10308.0    -5.9 10329.0   -14.1 10349.0   -18.0 10369.0   -18.0 10389.0
GR -20.1 10409.0   -18.1 10449.0   -18.0 10469.0   -20.2 10510.0   -20.1 10531.0
GR -19.2 10549.0   -12.1 10568.0    -9.2 10588.0    -3.1 10608.0    10.9 10629.0
GR  24.2 10649.0    33.1 10668.0    34.5 10675.0    38.6 10684.0    43.3 10699.0
GR  43.3 10749.0    43.3 10800.0    48.3 10900.0    68.3 10902.0
X1 28.90     35.   10127   10676    1056    1056    1056
X3    10
GR  81.3  9925.0    61.3  9927.0    56.3 10027.0    56.2 10048.0    56.2 10127.0
GR  49.8 10147.0    43.7 10163.0    34.6 10170.0    15.9 10208.0     9.0 10229.0
GR   0.0 10250.0   -12.0 10288.0   -16.9 10308.0   -18.8 10329.0   -19.0 10349.0
GR -20.0 10369.0   -19.9 10409.0   -20.1 10429.0   -19.0 10449.0   -19.2 10468.0
GR -16.0 10489.0   -15.8 10509.0   -12.0 10529.0    -5.0 10550.0     4.0 10568.0
GR  16.0 10588.0    34.2 10623.0    37.6 10627.0    41.4 10646.0    46.2 10666.0
GR  51.3 10676.0    51.8 10697.0    52.7 10746.0    57.7 10846.0    77.7 10848.0
X1 29.09     37.   10138   10669    1003    1003    1003
X3    10
GR  80.4  9946.0    60.4  9948.0    55.4 10048.0    55.1 10098.0    55.1 10138.0
GR  51.2 10149.0    45.1 10163.0    33.6 10179.0    34.1 10183.0    32.6 10189.0
GR  21.8 10209.0    15.9 10229.0     6.7 10249.0     1.8 10269.0    -8.0 10290.0
GR -14.0 10309.0   -18.8 10330.0   -26.8 10350.0   -26.8 10389.0   -27.7 10408.0
GR -27.9 10448.0   -25.9 10469.0   -12.0 10510.0    -6.9 10529.0     3.8 10550.0
GR   9.9 10569.0    19.7 10588.0    31.7 10608.0    34.5 10611.0    42.1 10624.0
GR  47.9 10648.0    51.8 10669.0    52.8 10698.0    53.3 10749.0    51.8 10769.0
GR  56.8 10869.0    76.8 10871.0
X1 29.30     35. 10149.8 10554.4    1109    1109    1109
X3    10
GR  73.9  9897.9    53.9  9899.9    48.9  9999.9    49.3 10049.0    49.5 10099.6
GR  40.1 10149.8    36.0 10160.7    35.4 10165.2    34.6 10182.6    29.1 10200.0
GR   9.1 10219.9    -5.0 10239.3   -20.1 10260.7   -30.0 10280.6   -37.0 10300.9
GR -40.1 10320.3   -42.1 10340.7   -43.0 10361.0   -42.1 10380.9   -42.2 10401.2
GR -41.3 10420.6   -35.0 10439.4   -26.0 10460.7   -15.2 10479.1    -4.1 10501.4
GR  22.0 10520.2    31.9 10539.0    34.6 10539.5    42.7 10554.4    49.6 10599.0
GR  46.9 10623.9    44.7 10649.2    45.3 10698.8    50.3 10798.8    70.3 10800.8
X1 29.50     37.   10100   10631    1056    1056    1056
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X3    10
GR  81.8  9896.0    61.8  9898.0    56.8  9998.0    56.8 10049.0    56.8 10100.0
GR  48.2 10108.0    40.4 10121.0    33.9 10136.0    26.7 10150.0    10.9 10169.0
GR    .1 10189.0   -15.0 10249.0   -24.9 10269.0   -30.0 10289.0   -40.0 10310.0
GR -46.0 10331.0   -49.9 10350.0   -51.9 10370.0   -52.0 10391.0   -50.0 10410.0
GR -45.0 10430.0   -38.0 10451.0   -34.2 10470.0   -30.0 10489.0   -24.2 10511.0
GR -13.6 10530.0     -.6 10545.0     5.0 10549.0    16.8 10571.0    30.7 10589.0
GR  34.7 10600.0    43.3 10615.0    49.8 10631.0    50.0 10650.0    52.6 10730.0
GR  57.6 10830.0    77.6 10832.0
X1 29.70     41.   10109   10820    1056    1056    1056
X3    10
GR  81.7  9897.0    61.7  9899.0    56.7  9999.0    56.5 10049.0    54.2 10099.0
GR  54.2 10109.0    46.3 10123.0    44.0 10148.0    39.0 10174.0    31.1 10209.0
GR  27.1 10229.0    20.0 10249.0    15.0 10269.0    10.2 10290.0    -1.9 10331.0
GR  -5.0 10350.0    -6.0 10369.0    -7.9 10390.0   -12.0 10471.0   -10.9 10490.0
GR -12.1 10511.0   -13.8 10530.0   -17.8 10552.0   -19.0 10570.0   -16.0 10589.0
GR -14.1 10611.0   -10.9 10630.0    -9.1 10650.0    -4.8 10669.0    -1.9 10690.0
GR   6.3 10731.0     9.2 10750.0    27.0 10790.0    34.7 10806.0    37.5 10807.0
GR  41.1 10820.0    42.5 10849.0    42.7 10899.0    41.8 10919.0    46.8 11019.0
GR  66.8 11021.0
X1 29.90     38.   10131   10840    1056    1056    1056
X3    10
GR  82.0  9949.0    62.0  9951.0    57.0 10051.0    56.2 10091.0    52.1 10103.0
GR  44.3 10131.0    35.7 10152.0    34.5 10166.0    18.7 10203.0    12.8 10224.0
GR   8.9 10242.0     6.0 10261.0     4.9 10281.0     -.8 10321.0    -6.9 10363.0
GR  -7.1 10382.0    -9.9 10401.0   -10.9 10421.0    -9.0 10460.0    -9.0 10480.0
GR  -6.0 10540.0    -6.1 10582.0    -7.3 10601.0    -9.2 10639.0    -6.2 10661.0
GR  -2.3 10680.0     5.8 10699.0     9.7 10719.0    13.8 10741.0    26.6 10760.0
GR  28.7 10782.0    33.9 10796.0    36.3 10801.0    40.9 10840.0    40.9 10900.0
GR  40.9 10939.0    45.9 11039.0    65.9 11041.0
X1 30.08     41.   10066   10938     950     950     950
X3    10
GR  80.2  9920.0    60.2  9922.0    55.2 10022.0    55.3 10032.0    45.7 10046.0
GR  39.6 10066.0    34.0 10076.0    32.6 10087.0    20.6 10127.0    14.8 10148.0
GR  12.6 10168.0     8.6 10188.0     2.6 10249.0    -5.3 10288.0    -4.4 10309.0
GR  -3.4 10329.0    -3.4 10349.0    -2.3 10369.0    -2.3 10429.0    -3.3 10450.0
GR  -3.2 10470.0    -1.3 10510.0     -.3 10528.0     0.0 10574.0      .6 10590.0
GR    .8 10608.0     3.0 10649.0     8.8 10690.0    11.8 10708.0    16.0 10728.0
GR  24.9 10747.0    31.0 10768.0    34.5 10787.0    38.6 10806.0    41.2 10848.0
GR  40.7 10903.0    47.1 10938.0    48.0 10998.0    47.1 11038.0    52.1 11138.0
GR  72.1 11140.0
X1 30.28     45.   10043   11017    1056    1056    1056
X3    10
GR  82.5  9846.0    62.5  9848.0    57.5  9948.0    57.7  9998.0    56.7 10043.0
GR  40.6 10077.0    34.6 10091.0    33.8 10099.0    31.1 10119.0    22.7 10139.0
GR  17.9 10159.0    11.8 10199.0     7.8 10239.0     5.8 10258.0     1.7 10278.0
GR  -2.2 10320.0    -3.2 10339.0    -4.1 10358.0    -4.2 10399.0    -5.2 10419.0
GR  -3.2 10459.0    -4.1 10479.0    -4.1 10500.0    -3.0 10520.0     0.0 10539.0
GR   -.1 10559.0     2.1 10598.0     4.0 10618.0     4.8 10639.0    17.2 10759.0
GR  22.3 10779.0    21.3 10798.0    25.4 10818.0    32.5 10839.0    34.9 10854.0
GR  39.0 10858.0    39.5 10898.0    38.3 10919.0    39.6 10948.0    50.8 11017.0
GR  50.8 11048.0    50.8 11098.0    50.9 11117.0    55.9 11217.0    75.9 11219.0
X1 30.49     55.   10039   11078    1109    1109    1109
X3    10
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GR  84.7  9848.0    64.7  9850.0    59.7  9950.0    58.5 10000.0    58.5 10039.0
GR  51.5 10049.0    46.6 10069.0    40.2 10089.0    34.4 10105.0    32.9 10121.0
GR  32.0 10140.0    30.0 10160.0    23.9 10180.0    19.0 10200.0    17.0 10220.0
GR  14.1 10240.0    10.1 10280.0     7.9 10301.0     4.1 10320.0     2.0 10339.0
GR  -2.0 10361.0    -3.0 10379.0    -4.9 10400.0    -1.9 10421.0    -3.1 10440.0
GR  -2.8 10460.0     -.8 10480.0    -2.0 10501.0    -1.9 10520.0     1.2 10579.0
GR    .9 10599.0     3.2 10640.0     4.9 10659.0     5.9 10679.0     9.7 10719.0
GR  12.2 10740.0    13.1 10760.0    18.9 10820.0    22.0 10839.0    27.0 10859.0
GR  24.9 10879.0    28.0 10899.0    30.1 10919.0    33.1 10940.0    34.1 10960.0
GR  34.6 10980.0    37.6 10999.0    41.6 11012.0    46.5 11048.0    51.2 11078.0
GR  51.2 11098.0    51.2 11148.0    51.2 11178.0    56.2 11278.0    76.2 11280.0
X1 30.69     47.   10070   11049    1056    1056    1056
X3    10
GR  81.3  9869.0    61.3  9871.0    56.3  9971.0    56.7 10001.0    56.4 10050.0
GR  56.0 10070.0    54.5 10079.0    42.5 10109.0    34.0 10113.0    32.6 10121.0
GR  30.7 10141.0    17.9 10201.0    15.0 10220.0    12.1 10241.0     7.9 10281.0
GR   2.3 10321.0     -.9 10341.0    -2.8 10361.0    -4.8 10402.0    -2.7 10421.0
GR  -1.9 10441.0    -2.6 10460.0    -2.9 10481.0     .5 10540.0     1.2 10560.0
GR   1.3 10580.0     2.2 10600.0     4.3 10620.0     4.9 10634.0     7.1 10660.0
GR   8.1 10680.0    10.1 10699.0    11.0 10719.0    13.0 10740.0    25.2 10859.0
GR  27.8 10879.0    29.9 10899.0    33.0 10919.0    34.6 10935.0    38.2 10963.0
GR  40.5 10997.0    42.3 11018.0    47.2 11049.0    47.2 11098.0    47.2 11149.0
GR  52.2 11249.0    72.2 11251.0
X1 30.88     52.   10007   10973    1003    1003    1003
X3    10
GR  81.6  9796.0    61.6  9798.0    56.6  9898.0    56.2  9947.0    55.8  9998.0
GR  55.8 10007.0    48.5 10019.0    43.5 10039.0    41.4 10064.0    34.6 10076.0
GR  34.0 10078.0    32.0 10098.0    25.0 10119.0    15.1 10159.0    12.0 10179.0
GR   9.0 10201.0     7.0 10219.0     3.0 10238.0     -.2 10260.0    -1.7 10280.0
GR  -4.8 10299.0    -5.1 10318.0    -2.0 10338.0    -4.0 10377.0    -3.9 10398.0
GR  -5.1 10418.0    -4.0 10439.0    -3.2 10458.0    -1.0 10479.0    -1.0 10520.0
GR   0.0 10539.0     2.0 10558.0     3.1 10579.0     6.8 10619.0     9.2 10640.0
GR   9.9 10662.0    14.1 10699.0    17.0 10719.0    19.1 10739.0    22.1 10758.0
GR  26.2 10799.0    32.1 10839.0    34.6 10865.0    38.8 10880.0    39.7 10899.0
GR  41.3 10918.0    51.6 10973.0    52.1 10998.0    51.6 11048.0    51.6 11074.0
GR  56.6 11174.0    76.6 11176.0
X1 31.08     40.   10050   10914    1056    1056    1056
X3    10
GR  82.7  9848.0    62.7  9850.0    57.7  9950.0    58.4 10000.0    56.5 10050.0
GR  48.4 10069.0    42.6 10089.0    34.5 10099.0    29.9 10119.0    24.1 10139.0
GR  15.0 10158.0    10.0 10178.0     8.9 10199.0     5.1 10218.0     1.9 10239.0
GR   -.1 10259.0    -4.0 10279.0    -4.9 10299.0    -7.0 10319.0    -5.9 10339.0
GR  -6.0 10359.0    -5.1 10378.0    -6.1 10398.0    -4.1 10438.0    -4.2 10459.0
GR   -.2 10538.0    15.9 10698.0    19.7 10738.0    24.0 10759.0    29.6 10800.0
GR  33.7 10819.0    34.2 10824.0    38.6 10839.0    40.4 10858.0    49.9 10914.0
GR  49.9 10948.0    49.9 10998.0    49.9 11013.0    54.9 11113.0    74.9 11115.0
X1 31.29     41.   10023   10874    1109    1109    1109
X3    10
GR  82.8  9795.0    62.8  9797.0    57.8  9897.0    57.8  9948.0    57.8  9998.0
GR  57.8 10023.0    51.6 10028.0    46.9 10038.0    43.1 10050.0    32.2 10068.0
GR  25.3 10088.0    19.2 10109.0    14.2 10129.0    12.3 10149.0     8.3 10170.0
GR   7.1 10188.0     -.7 10229.0    -3.6 10248.0    -4.6 10268.0    -4.7 10288.0
GR  -3.7 10308.0    -4.7 10328.0    -4.7 10349.0    -2.8 10389.0    -3.7 10408.0
GR   3.1 10551.0     8.1 10632.0    10.2 10649.0    11.0 10669.0    15.2 10710.0
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GR  21.0 10750.0    24.9 10769.0    32.0 10791.0    34.5 10804.0    40.4 10828.0
GR  44.5 10850.0    47.2 10874.0    50.3 10919.0    53.5 10930.0    58.5 11030.0
GR  78.5 11032.0
X1 31.50     42.   10019   10898    1109    1109    1109
X3    10
GR  80.1  9847.0    60.1  9849.0    55.1  9949.0    54.3  9999.0    54.3 10019.0
GR  51.9 10029.0    48.1 10048.0    41.9 10074.0    34.2 10085.0    32.6 10099.0
GR  26.7 10119.0    17.0 10159.0     4.6 10238.0     2.9 10259.0    -5.0 10298.0
GR  -4.1 10319.0    -5.2 10339.0    -3.0 10380.0    -3.1 10399.0    -3.9 10419.0
GR  -2.0 10460.0    -2.0 10499.0     3.8 10618.0     5.9 10639.0     7.0 10659.0
GR   9.0 10678.0    10.1 10696.0    14.0 10738.0    17.1 10758.0    22.1 10778.0
GR  27.4 10798.0    32.2 10819.0    34.9 10829.0    39.8 10858.0    47.2 10898.0
GR  53.4 10918.0    49.5 10947.0    49.5 10967.0    56.0 10998.0    55.4 11018.0
GR  60.4 11118.0    80.4 11120.0
X1 31.69     35.   10052   10829    1003    1003    1003
X3    10
GR  81.2  9848.0    61.2  9850.0    56.2  9950.0    56.6 10000.0    56.2 10052.0
GR  44.3 10080.0    41.1 10100.0    34.2 10105.0    23.7 10130.0    19.9 10150.0
GR  14.9 10170.0    10.9 10190.0     4.8 10210.0    -2.9 10250.0    -7.9 10270.0
GR  -8.3 10309.0    -9.2 10330.0    -9.1 10390.0    -7.0 10411.0    -7.1 10431.0
GR  -2.8 10509.0    -3.0 10530.0    -2.1 10550.0     0.0 10570.0     1.9 10611.0
GR  10.9 10670.0    30.9 10729.0    34.6 10749.0    36.7 10798.0    42.5 10813.0
GR  44.6 10829.0    47.3 10900.0    47.2 10929.0    52.2 11029.0    72.2 11031.0
X1 31.90     39.   10049   10850    1109    1109    1109
X3    10
GR  80.6  9898.0    60.6  9900.0    55.6 10000.0    54.4 10049.0    51.0 10069.0
GR  42.5 10089.0    40.6 10099.0    34.6 10108.0    27.8 10129.0    17.9 10170.0
GR  12.0 10190.0     7.7 10210.0     4.9 10230.0      .2 10249.0    -6.1 10270.0
GR  -8.0 10291.0    -9.0 10310.0    -9.0 10330.0   -11.1 10370.0   -11.1 10391.0
GR -10.1 10410.0   -10.1 10430.0    -8.0 10471.0    -8.1 10491.0    -4.0 10571.0
GR   3.9 10611.0    13.2 10670.0    21.2 10690.0    28.2 10710.0    34.3 10750.0
GR  34.9 10758.0    40.8 10777.0    40.6 10799.0    40.8 10811.0    46.7 10850.0
GR  50.1 10900.0    51.8 10950.0    56.8 11050.0    76.8 11052.0
X1 32.10     42.   10089   10849    1056    1056    1056
X3    10
GR  81.2  9896.0    61.2  9898.0    56.2  9998.0    54.7 10048.0    53.8 10089.0
GR  38.0 10118.0    27.2 10148.0    19.0 10168.0     4.4 10188.0    -4.1 10208.0
GR  -9.8 10229.0   -10.8 10250.0   -12.8 10269.0   -11.6 10289.0    -9.8 10309.0
GR  -8.9 10328.0    -9.0 10348.0    -9.6 10368.0    -8.7 10387.0    -9.7 10409.0
GR  -7.9 10427.0    -7.9 10448.0    -6.9 10468.0     -.9 10528.0     1.9 10548.0
GR   9.5 10579.0    16.8 10606.0    20.0 10628.0    24.1 10650.0    27.0 10668.0
GR  28.9 10689.0    30.8 10729.0    30.8 10749.0    31.9 10766.0    33.8 10788.0
GR  34.4 10798.0    39.1 10808.0    42.9 10849.0    44.7 10867.0    52.2 10957.0
GR  57.2 11057.0    77.2 11059.0
X1 32.30     46.   10034   11035    1056    1056    1056
X3    10
GR  80.6  9847.0    60.6  9849.0    55.6  9949.0    55.6 10000.0    55.6 10034.0
GR  47.8 10050.0    40.8 10074.0    34.7 10089.0    33.0 10099.0    27.8 10119.0
GR  14.7 10160.0    11.8 10180.0    10.1 10199.0     6.9 10219.0      .9 10279.0
GR  -5.2 10319.0    -3.9 10339.0    -8.0 10360.0    -7.3 10379.0    -8.1 10399.0
GR  -6.2 10420.0    -6.3 10439.0    -5.3 10459.0     1.0 10520.0     3.9 10538.0
GR   6.0 10558.0    12.1 10598.0    15.8 10638.0    18.8 10660.0    20.0 10677.0
GR  21.9 10698.0    22.8 10718.0    27.0 10757.0    29.9 10777.0    32.3 10817.0
GR  32.3 10838.0    34.7 10889.0    38.6 10932.0    38.9 10957.0    42.5 10998.0
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GR  49.1 11035.0    49.1 11048.0    50.4 11098.0    55.3 11135.0    60.3 11235.0
GR  80.3 11237.0
X1 32.50     44.   10047   11029    1056    1056    1056
X3    10
GR  83.6  9845.0    63.6  9847.0    58.6  9947.0    56.7  9997.0    56.2 10047.0
GR  46.6 10067.0    40.7 10088.0    34.5 10100.0    32.9 10119.0    32.1 10139.0
GR  30.1 10160.0    25.0 10180.0    20.0 10218.0    18.2 10238.0    15.3 10259.0
GR  11.2 10278.0     5.3 10299.0     1.1 10319.0    -2.0 10338.0    -7.9 10379.0
GR  -8.9 10399.0    -7.8 10421.0    -9.8 10459.0    -8.8 10480.0    -4.7 10518.0
GR  -3.8 10540.0    10.1 10680.0    13.2 10699.0    17.2 10741.0    20.2 10759.0
GR  21.3 10781.0    27.1 10840.0    28.1 10860.0    34.8 10928.0    36.9 10940.0
GR  37.5 10960.0    39.4 10979.0    40.6 11000.0    44.4 11029.0    46.0 11050.0
GR  52.6 11100.0    55.6 11128.0    60.6 11228.0    80.6 11230.0
X1 32.69     42.   10109   10851    1003    1003    1003
X3    10
GR  80.0  9846.0    60.0  9848.0    55.0  9948.0    55.5  9998.0    58.1 10049.0
GR  54.5 10059.0    42.6 10109.0    34.7 10154.0    33.9 10170.0    19.0 10211.0
GR  13.0 10230.0     7.6 10250.0     -.1 10291.0    -2.9 10309.0   -11.1 10350.0
GR -13.1 10370.0   -12.2 10390.0   -11.1 10421.0   -10.1 10430.0    -7.1 10490.0
GR  -4.9 10510.0    -3.1 10549.0    -1.2 10570.0     -.3 10590.0     1.8 10610.0
GR   2.9 10632.0     6.9 10670.0     7.8 10690.0    10.0 10710.0    17.2 10731.0
GR  16.2 10750.0    19.2 10771.0    21.2 10791.0    30.2 10811.0    34.8 10835.0
GR  40.1 10851.0    44.5 10871.0    44.2 10901.0    46.5 10950.0    52.7 10971.0
GR  57.7 11071.0    77.7 11073.0
X1 32.89     43. 10079.5 10779.1    1056    1056    1056
X3    10
GR  80.1  9847.5    60.1  9849.5    55.1  9949.5    55.7  9999.7    55.4 10024.6
GR  52.1 10030.1    44.2 10059.1    40.1 10079.5    32.9 10088.5    34.7 10089.0
GR  21.2 10129.0    10.8 10149.5     -.1 10219.8    -6.1 10228.8   -10.9 10249.3
GR -13.1 10269.7   -14.0 10289.6   -11.8 10329.3   -12.0 10349.7    -9.8 10389.5
GR  -7.8 10409.8    -6.0 10449.6    -4.0 10470.4    -2.0 10510.7     0.0 10529.6
GR    .9 10549.9     3.0 10579.7     5.1 10589.7     7.9 10609.5     9.0 10629.4
GR  13.9 10649.2    16.0 10669.1    22.0 10688.9    26.9 10708.7    30.7 10729.0
GR  31.8 10749.9    34.7 10764.3    39.2 10779.1    43.3 10799.5    55.4 10887.8
GR  59.0 10899.2    64.0 10999.2    84.0 11001.2
X1 33.10     48.   10098   10910    1109    1109    1109
X3    10
GR  80.4  9877.0    60.4  9879.0    55.4  9979.0    55.4  9998.0    55.4 10016.0
GR  55.4 10048.0    55.4 10068.0    55.4 10086.0    55.4 10098.0    43.5 10142.0
GR  41.5 10161.0    34.7 10180.0    25.0 10199.0    19.1 10220.0    11.9 10239.0
GR   8.9 10259.0     4.0 10279.0     1.0 10300.0    -3.2 10320.0    -8.0 10339.0
GR  -9.0 10359.0   -10.9 10380.0    -9.9 10400.0   -10.0 10419.0    -5.0 10520.0
GR  -1.1 10559.0     0.0 10579.0     3.9 10619.0     5.1 10640.0     9.1 10679.0
GR  10.1 10700.0    12.3 10719.0    15.1 10738.0    16.3 10760.0    18.1 10779.0
GR  20.9 10801.0    25.3 10819.0    34.8 10843.0    38.8 10848.0    41.7 10858.0
GR  46.4 10877.0    49.9 10897.0    56.2 10910.0    57.7 10927.0    58.3 10974.0
GR  63.6 10997.0    68.6 11097.0    88.6 11099.0
X1 33.52     35.   10036   10855    2218    2218    2218
X3    10
GR  81.2  9827.0    61.2  9829.0    56.2  9929.0    56.2  9999.0    56.2 10036.0
GR  49.1 10049.0    42.0 10091.0    40.2 10099.0     1.0 10190.0    -4.7 10230.0
GR  -7.8 10290.0    -6.0 10310.0    -5.8 10331.0    -5.0 10346.0    -5.0 10370.0
GR  -3.8 10388.0    -3.6 10415.0     7.2 10635.0     9.0 10650.0    11.0 10688.0
GR  11.4 10692.0    17.0 10731.0    32.9 10770.0    34.7 10779.0    37.8 10788.0
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GR  38.9 10799.0    45.1 10830.0    56.7 10855.0    56.7 10894.0    57.0 10908.0
GR  56.7 10916.0    56.7 10951.0    56.7 10969.0    61.7 11069.0    81.7 11071.0
X1 33.74     42.   10129   10884    1162    1162    1162
X3    10
GR  78.9  9847.0    58.9  9849.0    53.9  9949.0    55.6 10000.0    55.9 10025.0
GR  44.7 10099.0    44.7 10129.0    42.6 10154.0    41.1 10164.0    34.8 10169.0
GR  28.1 10191.0     9.0 10230.0    -2.0 10260.0    -6.0 10310.0    -5.9 10330.0
GR  -4.9 10349.0    -5.0 10390.0    -3.9 10409.0    -4.0 10490.0    -3.0 10510.0
GR  -3.1 10531.0    -2.1 10551.0    -2.2 10590.0      .9 10650.0     3.0 10670.0
GR   3.9 10689.0     5.8 10709.0    11.7 10749.0    15.9 10770.0    21.9 10790.0
GR  31.9 10809.0    35.0 10823.0    38.5 10828.0    44.3 10849.0    46.4 10860.0
GR  51.1 10873.0    57.7 10884.0    58.1 10895.0    57.7 10949.0    57.7 10999.0
GR  62.7 11099.0    82.7 11101.0
X1 33.95     45.   10156   10865    1109    1109    1109
X3    10
GR  71.4  9848.0    51.4  9850.0    46.4  9950.0    45.5  9999.0    45.7 10030.0
GR  46.8 10050.0    44.3 10070.0    42.6 10100.0    39.8 10143.0    38.2 10156.0
GR  34.9 10162.0    33.9 10170.0    33.9 10190.0    29.1 10210.0    19.0 10229.0
GR   6.9 10271.0     -.2 10290.0    -4.0 10310.0    -6.9 10331.0    -7.8 10351.0
GR  -8.0 10371.0    -7.9 10410.0    -7.0 10430.0    -7.0 10451.0    -6.0 10471.0
GR  -6.0 10491.0    -4.9 10509.0    -5.0 10531.0    -2.1 10591.0    -2.0 10611.0
GR  -1.0 10631.0    -1.3 10650.0     -.1 10670.0     4.0 10712.0    13.7 10775.0
GR  22.7 10810.0    34.8 10827.0    46.8 10855.0    57.7 10865.0    58.5 10887.0
GR  57.7 10892.0    57.7 10928.0    63.2 10949.0    68.2 11049.0    88.2 11051.0
X1 34.17     34. 10111.9 10838.2    1162    1162    1162
X3    10
GR  69.4  9847.3    49.4  9849.3    44.4  9949.3    40.6  9998.6    41.5 10029.4
GR  43.2 10053.2    38.2 10111.9    33.9 10138.8    31.9 10180.1    26.2 10198.6
GR  15.9 10219.6     9.3 10240.1     1.6 10259.0    -4.1 10280.0    -6.9 10299.4
GR  -8.0 10319.8   -11.0 10339.2    -8.9 10358.6    -9.1 10459.5    -5.9 10519.7
GR  -6.1 10541.1     -.8 10640.9     1.0 10659.3    12.8 10721.8    29.9 10759.4
GR  34.9 10777.3    38.7 10783.2    40.8 10797.1    45.9 10819.9    56.3 10838.2
GR  57.7 10880.0    64.3 10899.4    69.3 10999.4    89.3 11001.4
X1 34.39     47.   10060   10908    1162    1162    1162
X3    10
GR  77.4  9857.0    57.4  9859.0    52.4  9959.0    52.4  9998.0    52.4 10039.0
GR  52.4 10060.0    44.3 10099.0    40.1 10149.0    40.0 10200.0    40.7 10219.0
GR  38.9 10237.0    35.0 10254.0    34.2 10259.0    28.1 10280.0    19.2 10300.0
GR   8.0 10320.0     2.0 10339.0    -2.0 10360.0    -7.8 10380.0   -14.0 10439.0
GR -13.1 10460.0   -11.3 10478.0   -10.0 10499.0    -7.1 10561.0    -7.1 10580.0
GR  -5.9 10599.0    -5.9 10620.0    -5.0 10639.0    -5.2 10660.0    -3.7 10679.0
GR  -4.0 10700.0    -5.0 10719.0    -2.0 10739.0     -.1 10759.0     4.2 10779.0
GR  17.2 10821.0    34.9 10859.0    39.3 10862.0    42.7 10880.0    52.1 10902.0
GR  58.5 10908.0    58.5 10930.0    58.5 10974.0    63.5 10995.0    64.0 10999.0
GR  69.0 11099.0    89.0 11101.0
X1 34.60     45. 10058.6 10820.9    1109    1109    1109
X3    10
GR  71.4  9848.1    51.4  9850.1    46.4  9950.1    44.1 10029.3    44.1 10058.6
GR  40.5 10107.4    35.1 10117.6    33.9 10118.0    30.1 10139.0    19.9 10159.7
GR  13.2 10179.8     5.0 10220.3     3.0 10240.2      .1 10260.2    -1.0 10280.1
GR  -1.2 10299.0     -.1 10320.4    -4.2 10359.8    -5.1 10379.7    -5.1 10418.5
GR  -4.0 10441.4    -4.3 10479.2    -3.1 10501.1    -3.0 10521.5    -2.0 10540.8
GR   -.1 10561.2      .8 10580.1     2.8 10599.4     2.9 10620.8      .9 10640.3
GR   1.8 10662.1     4.8 10680.5     5.8 10701.3    17.9 10740.8    32.1 10759.4
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GR  35.2 10769.3    39.3 10769.7    41.6 10783.5    45.8 10798.9    58.2 10820.9
GR  58.6 10838.8    58.5 10878.6    63.8 10899.9    68.8 10999.9    88.8 11001.9
X1 34.82     40.   10064   10813    1162    1162    1162
X3    10
GR  71.6  9862.0    51.6  9864.0    46.6  9964.0    46.6  9999.0    46.6 10039.0
GR  46.6 10064.0    41.5 10089.0    40.4 10106.0    35.0 10122.0    31.9 10128.0
GR  23.0 10149.0    15.0 10169.0     9.0 10188.0     3.0 10229.0     3.1 10249.0
GR  -3.1 10269.0    -1.9 10289.0    -5.9 10329.0    -4.9 10350.0    -5.0 10369.0
GR  -5.9 10388.0    -6.1 10408.0    -5.1 10429.0    -5.1 10490.0    -4.0 10509.0
GR  -5.0 10529.0    -5.2 10589.0    -2.2 10609.0    -3.1 10629.0    12.1 10689.0
GR  27.0 10729.0    35.2 10752.0    37.7 10754.0    41.0 10770.0    45.1 10788.0
GR  57.4 10813.0    58.1 10825.0    64.2 10849.0    69.2 10949.0    89.2 10951.0
X1 34.99     45.   10114   10850     898     898     898
X3    10
GR  73.7  9798.0    53.7  9800.0    48.7  9900.0    49.4  9950.0    50.6 10001.0
GR  45.2 10050.0    45.2 10075.0    45.2 10114.0    43.7 10149.0    40.9 10164.0
GR  40.4 10175.0    35.2 10194.0    30.2 10210.0    20.1 10230.0     4.0 10268.0
GR  -3.0 10289.0    -6.0 10309.0    -9.9 10330.0    -5.9 10409.0    -3.9 10429.0
GR  -5.0 10449.0    -2.0 10509.0    -3.1 10529.0    -3.0 10550.0    -7.1 10570.0
GR  -6.1 10589.0    -5.9 10609.0    -3.0 10630.0    -6.0 10650.0     -.9 10669.0
GR  12.0 10730.0    19.0 10749.0    33.1 10769.0    35.2 10775.0    39.3 10779.0
GR  41.7 10791.0    48.3 10834.0    57.0 10850.0    57.0 10871.0    57.0 10878.0
GR  57.8 10886.0    57.9 10920.0    57.2 10950.0    62.2 11050.0    82.2 11052.0
X1 35.17     45.   10124   10800     950     950     950
X3    10
GR  77.9  9797.0    57.9  9799.0    52.9  9899.0    52.5  9950.0    52.9  9999.0
GR  47.7 10020.0    44.2 10050.0    44.2 10094.0    44.2 10124.0    40.6 10165.0
GR  35.3 10174.0    34.2 10180.0    24.0 10200.0    19.2 10221.0    13.4 10240.0
GR   6.3 10260.0      .2 10280.0    -2.7 10299.0    -3.8 10320.0    -7.8 10340.0
GR  -5.9 10361.0    -2.9 10419.0    -3.1 10479.0    -4.0 10501.0    -6.0 10520.0
GR  -4.1 10540.0    -6.2 10581.0    -6.0 10620.0    -2.0 10640.0     3.0 10660.0
GR   6.1 10681.0    10.9 10700.0    17.8 10720.0    32.0 10740.0    35.0 10753.0
GR  38.3 10757.0    41.5 10775.0    44.5 10800.0    49.4 10820.0    58.0 10835.0
GR  57.0 10842.0    57.6 10879.0    64.1 10901.0    69.1 11001.0    89.1 11003.0
X1 35.37     35.   10174   10807    1056    1056    1056
X3    10
GR  71.9  9873.0    51.9  9875.0    46.9  9975.0    47.2 10025.0    48.5 10074.0
GR  42.3 10119.0    44.1 10150.0    41.7 10174.0    39.0 10191.0    35.2 10197.0
GR  32.8 10199.0    17.2 10239.0     4.0 10319.0     2.2 10340.0    -5.0 10478.0
GR  -5.0 10519.0    -6.1 10539.0    -6.2 10579.0    -7.0 10600.0    -5.1 10618.0
GR  -4.0 10639.0    -2.0 10659.0     1.0 10680.0     5.9 10699.0    10.0 10718.0
GR  15.9 10757.0    26.9 10777.0    38.9 10795.0    41.9 10807.0    45.2 10817.0
GR  58.3 10840.0    57.4 10876.0    63.5 10897.0    68.5 10997.0    88.5 10999.0
X1 35.58     42.   10037   10735    1109    1109    1109
X3    10
GR  69.2  9836.0    49.2  9838.0    44.2  9938.0    44.5  9958.0    42.2  9997.0
GR  41.7 10037.0    39.5 10072.0    35.3 10083.0    33.1 10097.0    28.1 10118.0
GR  21.0 10138.0    15.1 10178.0    11.0 10217.0     5.0 10260.0     3.9 10279.0
GR  -3.8 10358.0    -4.1 10379.0    -5.2 10399.0    -7.1 10419.0    -6.3 10439.0
GR  -3.1 10458.0    -7.1 10499.0    -5.9 10519.0    -6.0 10540.0    -4.8 10561.0
GR  -3.0 10580.0      .2 10600.0     4.0 10620.0    13.0 10663.0    17.1 10680.0
GR  29.4 10699.0    35.1 10704.0    44.1 10720.0    46.7 10727.0    52.5 10735.0
GR  52.5 10751.0    52.5 10799.0    58.4 10827.0    58.3 10880.0    63.5 10900.0
GR  68.5 11000.0    88.5 11002.0
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X1 35.79     46.   10069   11057    1109    1109    1109
X3    10
GR  76.3  9827.0    56.3  9829.0    51.3  9929.0    50.7  9949.0    52.3  9999.0
GR  51.6 10038.0    49.2 10069.0    41.7 10098.0    39.2 10133.0    35.4 10156.0
GR  34.1 10168.0    32.2 10208.0    30.0 10229.0    24.1 10269.0    20.1 10309.0
GR  16.9 10329.0    13.1 10370.0    12.0 10389.0     6.0 10449.0     4.2 10491.0
GR   2.1 10529.0     1.3 10549.0     -.8 10569.0    -3.9 10629.0    -4.0 10650.0
GR  -4.9 10670.0    -5.0 10710.0    -3.1 10729.0     1.1 10748.0     6.9 10770.0
GR  11.0 10809.0    12.1 10829.0    12.1 10869.0    19.5 10911.0    27.2 10928.0
GR  30.2 10949.0    33.9 10989.0    35.6 10993.0    37.5 11006.0    43.5 11029.0
GR  58.0 11057.0    58.0 11089.0    58.8 11123.0    64.8 11148.0    69.8 11248.0
GR  89.8 11250.0
X1 35.93     48.   10075   11094     739     739     739
X3    10
GR  77.4  9858.0    57.4  9860.0    52.4  9960.0    52.4 10000.0    54.6 10019.0
GR  54.0 10050.0    52.4 10075.0    33.6 10105.0    37.1 10150.0    36.3 10200.0
GR  38.4 10248.0    35.2 10259.0    33.2 10280.0    30.1 10300.0    25.2 10320.0
GR  22.1 10340.0    20.0 10360.0    16.2 10379.0    14.1 10401.0    12.0 10440.0
GR   6.1 10499.0     5.1 10521.0     3.1 10541.0     3.0 10582.0     1.0 10620.0
GR   1.0 10641.0    -2.2 10702.0    -3.9 10720.0    -3.8 10741.0    -5.0 10760.0
GR  -3.9 10780.0    -5.0 10800.0    -1.5 10822.0     2.2 10860.0     5.3 10881.0
GR  10.3 10901.0    12.2 10920.0    23.2 10960.0    28.0 10981.0    32.1 11020.0
GR  35.3 11038.0    41.3 11060.0    49.1 11080.0    58.5 11094.0    59.1 11150.0
GR  61.0 11158.0    66.0 11258.0    86.0 11260.0
X1 36.15     39.    9949   10954    1162    1162    1162
X3    10
GR  72.2  9807.0    52.2  9809.0    47.2  9909.0    43.4  9949.0    35.8  9999.0
GR  35.4 10050.0    38.6 10124.0    35.4 10137.0    16.9 10231.0    13.9 10250.0
GR   4.1 10350.0     3.1 10370.0     -.1 10390.0    -1.9 10410.0    -3.9 10450.0
GR  -3.9 10490.0    -5.1 10511.0    -5.1 10591.0    -3.2 10610.0    -4.4 10630.0
GR  -3.2 10651.0     0.0 10671.0     2.1 10690.0     6.2 10710.0     8.0 10730.0
GR  11.1 10750.0    13.1 10770.0    28.0 10808.0    32.8 10829.0    34.0 10848.0
GR  42.7 10908.0    44.9 10918.0    57.8 10954.0    59.0 10994.0    64.4 11015.0
GR  65.0 11029.0    63.4 11038.0    68.4 11138.0    88.4 11140.0
X1 36.26     36.   10219   10836     581     581     581
X3    10
GR  67.9  9797.0    47.9  9799.0    42.9  9899.0    46.7  9950.0    48.8 10000.0
GR  44.4 10050.0    40.8 10100.0    40.8 10150.0    40.8 10200.0    40.8 10219.0
GR  35.4 10240.0    32.3 10260.0    27.3 10279.0    23.3 10301.0    18.2 10320.0
GR  -1.0 10441.0    -8.8 10519.0   -12.0 10580.0   -11.9 10599.0   -12.9 10619.0
GR -11.1 10660.0    -9.1 10679.0    -6.1 10700.0    -3.9 10720.0    -2.8 10741.0
GR   0.0 10760.0     8.0 10779.0    24.0 10800.0    33.0 10821.0    49.2 10836.0
GR  49.2 10840.0    49.3 10851.0    50.3 10899.0    50.5 10950.0    55.5 11050.0
GR  75.5 11052.0
X1 36.45     38.   10201   10842    1003    1003    1003
X3    10
GR  79.4  9798.0    59.4  9800.0    54.4  9900.0    54.1  9949.0    53.1  9999.0
GR  44.6 10049.0    39.1 10099.0    39.1 10148.0    39.3 10169.0    39.5 10191.0
GR  39.1 10201.0    35.2 10209.0    19.9 10268.0    15.9 10289.0    13.0 10309.0
GR   7.0 10370.0     3.9 10390.0   -10.1 10530.0   -14.0 10609.0   -16.1 10629.0
GR -11.1 10650.0    -9.1 10669.0    -6.2 10690.0     6.9 10730.0    10.8 10749.0
GR  20.1 10770.0    39.0 10796.0    42.1 10808.0    52.7 10835.0    58.6 10842.0
GR  59.2 10849.0    58.7 10887.0    58.6 10899.0    59.4 10913.0    59.2 10942.0
GR  58.6 10948.0    63.6 11048.0    83.6 11050.0
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X1 36.64     42.   10296   11004    1003    1003    1003
X3    10
GR  77.5  9798.0    57.5  9800.0    52.5  9900.0    51.3  9950.0    41.7 10050.0
GR  39.4 10105.0    39.4 10156.0    39.4 10179.0    39.4 10225.0    39.4 10267.0
GR  39.7 10289.0    39.4 10296.0    35.6 10307.0    33.1 10319.0    22.2 10359.0
GR  18.0 10380.0    12.1 10419.0    10.1 10439.0     6.8 10459.0     4.8 10480.0
GR   3.8 10499.0    -6.2 10600.0   -11.2 10700.0   -11.2 10741.0    -4.8 10779.0
GR  -2.0 10801.0     4.9 10820.0    11.0 10859.0    23.8 10899.0    34.0 10919.0
GR  39.8 10942.0    43.1 10961.0    51.7 10981.0    58.7 11004.0    58.7 11015.0
GR  59.5 11037.0    59.7 11054.0    58.7 11063.0    58.7 11069.0    65.0 11100.0
GR  70.0 11200.0    90.0 11202.0
X1 36.84     49.   10214   10873    1056    1056    1056
X3    10
GR  70.2  9818.0    50.2  9820.0    45.2  9920.0    48.5  9950.0    48.8  9961.0
GR  44.2  9999.0    45.2 10024.0    40.4 10050.0    40.4 10068.0    40.4 10074.0
GR  40.4 10100.0    40.4 10124.0    40.4 10150.0    40.4 10185.0    40.4 10214.0
GR  35.1 10231.0    30.8 10249.0    23.8 10269.0    19.8 10290.0    13.7 10349.0
GR  11.0 10370.0     8.9 10390.0     6.0 10411.0    -2.1 10490.0    -5.0 10510.0
GR -11.2 10571.0   -13.3 10610.0   -13.2 10635.0   -14.0 10650.0   -13.2 10671.0
GR  -3.1 10710.0     -.2 10730.0     2.0 10752.0     2.9 10771.0    11.7 10789.0
GR  23.8 10809.0    35.2 10824.0    42.7 10849.0    54.4 10872.0    54.3 10873.0
GR  54.3 10922.0    59.7 10937.0    59.0 10954.0    59.1 10964.0    56.2 10982.0
GR  58.4 11032.0    62.4 11049.0    67.4 11149.0    87.4 11151.0
X1 37.15     49.   10123   11046    1637    1637    1637
X3    10
GR  80.3  9849.0    60.3  9851.0    55.3  9951.0    56.4  9998.0    47.9 10048.0
GR  47.9 10098.0    47.9 10123.0    38.3 10200.0    35.7 10250.0    36.4 10263.0
GR  41.5 10318.0    41.6 10333.0    39.6 10342.0    35.2 10352.0    23.3 10400.0
GR  20.1 10421.0    18.0 10441.0    15.1 10461.0    14.0 10481.0    11.0 10500.0
GR   8.9 10520.0     7.9 10540.0     5.9 10560.0     5.1 10580.0    -9.2 10720.0
GR -11.3 10760.0   -13.1 10780.0   -13.1 10801.0   -12.0 10822.0    -6.6 10842.0
GR  -3.0 10862.0     5.0 10899.0    10.1 10920.0    13.1 10940.0    18.2 10962.0
GR  25.2 10980.0    33.9 11000.0    35.2 11004.0    39.5 11008.0    46.9 11031.0
GR  58.4 11046.0    58.4 11064.0    58.4 11101.0    58.4 11116.0    58.4 11127.0
GR  58.4 11140.0    58.4 11151.0    63.4 11251.0    83.4 11253.0
X1 37.34     49.   10009   10889    1003    1003    1003
X3    10
GR  77.6  9797.0    57.6  9799.0    52.6  9899.0    53.4  9968.0    52.6 10009.0
GR  46.2 10048.0    39.5 10062.0    37.4 10099.0    38.4 10136.0    37.7 10149.0
GR  35.3 10162.0    34.1 10167.0    32.1 10189.0    16.2 10229.0     7.0 10290.0
GR   6.3 10309.0     4.1 10329.0     4.0 10349.0      .1 10389.0    -5.0 10488.0
GR  -5.1 10510.0    -7.1 10549.0    -9.0 10570.0    -8.0 10590.0    -9.0 10610.0
GR  -8.9 10629.0    -2.8 10671.0     3.0 10689.0     7.1 10711.0     9.0 10729.0
GR  18.8 10769.0    26.8 10790.0    30.9 10807.0    32.9 10828.0    35.2 10843.0
GR  41.4 10850.0    47.2 10868.0    52.3 10882.0    57.2 10889.0    57.2 10902.0
GR  57.4 10917.0    57.6 10928.0    57.2 10938.0    57.2 10959.0    57.2 10965.0
GR  57.2 10972.0    58.2 10989.0    63.2 11089.0    83.2 11091.0
X1 37.52     46.   10049   10966     950     950     950
X3    10
GR  80.7  9827.0    60.7  9829.0    55.7  9929.0    55.6  9950.0    55.9  9999.0
GR  53.5 10049.0    44.8 10100.0    42.9 10140.0    43.5 10184.0    42.6 10216.0
GR  38.9 10240.0    37.3 10285.0    35.2 10289.0    33.1 10300.0    13.1 10340.0
GR   6.9 10360.0    -1.1 10399.0    -5.9 10440.0    -6.0 10459.0    -5.1 10479.0
GR  -5.0 10500.0    -4.0 10520.0    -4.0 10659.0    -5.1 10678.0    -5.0 10721.0
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GR  -6.0 10741.0    -2.0 10760.0     0.0 10780.0     5.2 10801.0     8.0 10820.0
GR  19.9 10861.0    32.9 10881.0    35.1 10895.0    42.8 10921.0    47.5 10941.0
GR  58.5 10966.0    58.7 10981.0    58.5 10993.0    58.5 11002.0    61.3 11011.0
GR  59.5 11025.0    59.7 11036.0    58.5 11052.0    58.8 11067.0    63.8 11167.0
GR  83.8 11169.0
X1 37.70     41.    9998   10902     950     950     950
X3    10
GR  81.8  9797.0    61.8  9799.0    56.8  9899.0    53.9  9949.0    52.0  9998.0
GR  42.7 10048.0    40.7 10098.0    43.4 10118.0    43.7 10153.0    41.8 10188.0
GR  39.8 10209.0    38.8 10214.0    35.3 10222.0    32.1 10239.0    15.0 10280.0
GR   4.9 10319.0      .9 10339.0    -5.0 10379.0    -5.9 10400.0    -4.9 10419.0
GR  -5.0 10620.0    -7.0 10639.0    -6.0 10660.0    -5.9 10679.0    -4.1 10700.0
GR   5.9 10739.0    10.1 10760.0    12.7 10779.0    19.0 10799.0    27.1 10818.0
GR  34.0 10838.0    35.3 10848.0    44.4 10878.0    58.0 10902.0    58.0 10932.0
GR  61.1 10947.0    59.6 10956.0    59.4 10966.0    65.5 10998.0    70.5 11098.0
GR  90.5 11100.0
X1 37.89     43.   10040   10998    1003    1003    1003
X3    10
GR  82.4  9840.0    62.4  9842.0    57.4  9942.0    57.4  9990.0    57.4 10040.0
GR  47.6 10109.0    43.5 10160.0    36.9 10199.0    37.3 10230.0    39.5 10281.0
GR  37.4 10329.0    37.2 10340.0    35.2 10359.0    15.1 10421.0     5.4 10459.0
GR   -.9 10501.0    -3.0 10521.0    -6.0 10541.0    -7.8 10560.0    -9.7 10599.0
GR  -9.8 10640.0   -11.9 10680.0   -13.7 10699.0   -11.6 10740.0    -8.7 10760.0
GR  -3.9 10779.0      .2 10799.0     6.3 10819.0    10.8 10839.0    16.1 10859.0
GR  24.9 10878.0    32.8 10917.0    34.9 10925.0    40.8 10934.0    48.0 10959.0
GR  52.1 10968.0    57.5 10998.0    58.5 11038.0    58.2 11047.0    57.5 11054.0
GR  58.7 11067.0    63.7 11167.0    83.7 11169.0
X1 38.05     42.    9990   10935     845     845     845
X3    10
GR  80.4  9788.0    60.4  9790.0    55.4  9890.0    55.1  9901.0    52.0  9951.0
GR  50.5  9990.0    43.5 10051.0    39.0 10100.0    37.0 10116.0    33.7 10131.0
GR  32.5 10150.0    32.2 10176.0    32.6 10201.0    37.4 10221.0    40.2 10251.0
GR  33.2 10270.0    28.0 10291.0    22.3 10311.0    14.4 10351.0    12.4 10370.0
GR   6.4 10409.0     2.6 10451.0     -.2 10470.0    -2.3 10490.0   -11.2 10551.0
GR -15.1 10631.0   -13.2 10650.0    -6.4 10671.0     3.2 10711.0     5.2 10731.0
GR   9.9 10751.0     9.8 10772.0    12.8 10792.0    25.4 10812.0    32.0 10832.0
GR  33.3 10853.0    34.6 10855.0    44.1 10893.0    56.5 10935.0    57.7 11024.0
GR  62.7 11124.0    82.7 11126.0
X1 38.18     51.   10288   10898     686     686     686
X3    10
GR  76.5  9796.0    56.5  9798.0    51.5  9898.0    49.6  9948.0    50.0  9999.0
GR  45.6 10049.0    45.9 10058.0    40.5 10099.0    40.5 10130.0    40.5 10168.0
GR  40.5 10189.0    40.5 10208.0    40.5 10250.0    40.5 10288.0    39.3 10294.0
GR  35.0 10303.0    24.7 10329.0    19.8 10350.0    16.8 10371.0    13.9 10389.0
GR  11.1 10409.0     8.9 10429.0     7.1 10450.0     4.9 10470.0     2.0 10491.0
GR   -.1 10511.0    -3.0 10531.0    -5.1 10550.0    -7.9 10571.0   -13.9 10632.0
GR -16.7 10692.0   -15.7 10710.0    -9.8 10729.0    -3.7 10750.0      .1 10770.0
GR   5.9 10789.0    12.8 10809.0    17.0 10815.0    28.2 10829.0    35.3 10845.0
GR  38.4 10847.0    41.3 10859.0    45.6 10869.0    48.4 10877.0    58.5 10898.0
GR  58.5 10949.0    58.5 10968.0    58.8 10978.0    58.7 11001.0    63.7 11101.0
GR  83.7 11103.0
X1 38.40     45.   10036   10892    1162    1162    1162
X3    10
GR  81.4  9824.0    61.4  9826.0    56.4  9926.0    56.4  9946.0    56.4 10036.0
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GR  45.6 10077.0    42.1 10097.0    38.6 10177.0    35.2 10191.0    31.6 10196.0
GR  20.8 10228.0    12.6 10268.0     6.5 10308.0     4.7 10328.0     3.6 10349.0
GR   3.6 10368.0     1.6 10389.0     -.1 10428.0    -1.4 10449.0    -3.3 10468.0
GR  -5.3 10509.0    -5.4 10530.0    -7.4 10550.0    -8.3 10570.0    -7.3 10590.0
GR  -9.3 10610.0    -9.2 10651.0    -6.3 10670.0      .4 10699.0     3.1 10709.0
GR  15.4 10748.0    18.3 10768.0    27.4 10787.0    33.6 10807.0    36.2 10828.0
GR  38.0 10847.0    44.3 10873.0    48.5 10879.0    52.5 10892.0    55.2 10948.0
GR  55.0 10969.0    55.6 10974.0    59.3 10987.0    64.3 11087.0    84.3 11089.0
X1 38.58     44.   10103   10859     950     950     950
X3    10
GR  77.7  9795.0    57.7  9797.0    52.7  9897.0    55.2  9948.0    55.8  9998.0
GR  51.3 10018.0    42.4 10049.0    41.1 10078.0    41.1 10103.0    39.2 10113.0
GR  35.2 10124.0    31.5 10139.0    22.6 10159.0    14.6 10179.0    10.6 10199.0
GR   9.6 10218.0     6.7 10238.0     2.8 10278.0     2.8 10298.0    -1.1 10378.0
GR  -1.2 10398.0    -2.1 10420.0    -2.2 10439.0    -4.0 10459.0    -3.1 10479.0
GR  -3.3 10499.0    -4.2 10519.0    -3.3 10539.0    -4.2 10559.0    -4.3 10579.0
GR  -3.3 10599.0    11.8 10700.0    26.9 10738.0    33.9 10759.0    33.8 10779.0
GR  34.9 10793.0    37.2 10809.0    40.0 10833.0    45.2 10859.0    49.0 10924.0
GR  52.3 10943.0    54.2 10969.0    59.2 11069.0    79.2 11071.0
X1 38.77     38.   10015   10831    1003    1003    1003
X3    10
GR  83.8  9798.0    63.8  9800.0    58.8  9900.0    58.8  9950.0    59.3 10000.0
GR  58.8 10015.0    51.1 10030.0    40.2 10070.0    36.7 10099.0    35.4 10133.0
GR  33.1 10150.0    29.1 10170.0    20.1 10189.0    11.1 10249.0     4.9 10310.0
GR   4.1 10329.0     4.0 10350.0    -2.0 10470.0    -2.0 10490.0    -3.0 10511.0
GR  -2.9 10531.0    -3.8 10549.0    -4.0 10590.0    -6.1 10609.0    -5.0 10630.0
GR  -2.0 10650.0     5.8 10689.0     7.9 10709.0    12.0 10730.0    32.9 10790.0
GR  35.1 10811.0    39.2 10816.0    41.1 10831.0    41.3 10835.0    41.1 10851.0
GR  41.4 10950.0    46.4 11050.0    66.4 11052.0
X1 38.99     44.   10048   10920    1162    1162    1162
X3    10
GR  83.4  9847.0    63.4  9849.0    58.4  9949.0    57.7  9998.0    55.5 10048.0
GR  52.9 10053.0    45.7 10099.0    39.8 10120.0    37.0 10149.0    38.1 10179.0
GR  37.2 10188.0    35.0 10193.0    32.6 10209.0    26.7 10228.0    19.8 10248.0
GR  14.8 10269.0    11.7 10289.0     9.7 10312.0     6.8 10328.0     4.8 10369.0
GR   2.8 10390.0     2.7 10409.0     -.9 10489.0    -1.0 10509.0    -3.1 10550.0
GR  -3.0 10571.0    -6.1 10629.0    -6.3 10650.0    -4.3 10671.0     7.8 10730.0
GR  10.2 10751.0    14.0 10768.0    25.8 10808.0    30.6 10830.0    26.7 10848.0
GR  25.8 10868.0    35.4 10907.0    42.0 10920.0    42.5 10932.0    42.0 10946.0
GR  42.5 10999.0    44.4 11047.0    49.4 11147.0    69.4 11149.0
X1 39.20     43.   10038   10760    1109    1109    1109
X3    10
GR  68.3  9900.0    48.3  9902.0    43.3 10002.0    43.3 10031.0    43.3 10038.0
GR  37.4 10051.0    34.9 10082.0    32.0 10100.0    22.9 10121.0    17.0 10139.0
GR  13.2 10160.0     7.0 10200.0     3.0 10220.0     1.0 10239.0     1.0 10259.0
GR    .2 10279.0      .1 10300.0     -.9 10320.0     -.1 10340.0    -1.1 10360.0
GR   -.9 10420.0    -1.9 10439.0      .1 10459.0     -.1 10501.0    -1.1 10521.0
GR  -1.0 10539.0      .1 10560.0     3.7 10579.0     5.8 10599.0    12.0 10638.0
GR  13.8 10659.0    16.8 10679.0    21.7 10699.0    30.5 10718.0    34.9 10740.0
GR  35.1 10747.0    41.2 10750.0    45.2 10760.0    45.2 10799.0    46.1 10849.0
GR  45.2 10858.0    50.2 10958.0    70.2 10960.0
X1 39.39     38.   10109   10910    1003    1003    1003
X3    10
GR  78.1  9847.0    58.1  9849.0    53.1  9949.0    54.5  9999.0    56.5 10034.0
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GR  49.9 10048.0    40.8 10099.0    40.8 10109.0    37.8 10149.0    35.3 10194.0
GR  34.1 10210.0    18.2 10249.0    15.1 10269.0    11.0 10289.0     9.1 10310.0
GR   4.0 10330.0     0.0 10349.0    -3.0 10369.0    -1.0 10389.0    -1.9 10410.0
GR  -2.0 10429.0     -.9 10449.0     -.9 10490.0      .2 10510.0     0.0 10651.0
GR   3.9 10690.0     7.0 10710.0    15.1 10750.0    21.1 10769.0    24.1 10789.0
GR  30.3 10810.0    35.6 10848.0    41.4 10868.0    47.8 10910.0    47.8 10950.0
GR  47.8 11010.0    52.8 11110.0    72.8 11112.0
X1 39.59     44. 10101.5 10865.8    1056    1056    1056
X3    10
GR  77.9  9799.0    57.9  9801.0    52.9  9901.0    52.7  9951.2    52.6 10004.8
GR  46.8 10049.6    42.2 10070.5    36.3 10101.5    36.3 10101.6    35.8 10127.3
GR  34.2 10140.2    22.0 10160.3    17.2 10178.8    13.1 10201.3     7.1 10220.7
GR  -2.9 10280.0    -3.0 10300.9    -1.8 10320.2    -1.9 10340.1     -.8 10359.9
GR  -1.1 10381.3      .1 10399.6      .1 10440.3    -2.0 10459.7      .2 10480.0
GR   -.9 10499.4      .2 10519.7      .1 10580.3     1.7 10599.6     4.8 10620.4
GR  13.1 10660.4    15.1 10679.8    25.1 10699.4    31.0 10720.1    33.1 10739.9
GR  34.1 10760.2    35.8 10772.6    41.0 10849.4    44.2 10865.8    45.5 10890.1
GR  46.7 10949.6    47.4 10990.3    52.4 11090.3    72.4 11092.3
X1 39.80     47.   10099   10849    1109    1109    1109
X3    10
GR  73.2  9816.0    53.2  9818.0    48.2  9918.0    48.4  9948.0    49.2  9999.0
GR  48.7 10018.0    44.4 10049.0    38.7 10099.0    35.3 10120.0    34.8 10140.0
GR  31.8 10159.0    26.9 10179.0    12.0 10219.0    10.0 10240.0     7.0 10258.0
GR   4.9 10279.0      .9 10300.0     -.2 10318.0     -.2 10360.0     1.1 10380.0
GR   1.0 10399.0     0.0 10420.0     -.2 10443.0     1.0 10460.0     1.0 10481.0
GR   0.0 10499.0     -.1 10520.0    -1.0 10538.0    -1.2 10560.0    -2.3 10579.0
GR  -1.1 10600.0      .9 10620.0     4.9 10640.0     7.9 10658.0     9.9 10679.0
GR  14.8 10700.0    25.8 10719.0    35.6 10745.0    41.9 10798.0    42.6 10818.0
GR  45.2 10849.0    53.2 10868.0    50.5 10878.0    47.5 10898.0    46.6 10970.0
GR  51.6 11070.0    71.6 11072.0
X1 39.99     45.   10078   10813    1003    1003    1003
X3    10
GR  73.7  9826.0    53.7  9828.0    48.7  9928.0    48.4  9948.0    45.6  9998.0
GR  44.8 10028.0    42.8 10058.0    42.4 10078.0    35.6 10094.0    35.1 10098.0
GR  29.0 10119.0    20.9 10138.0    17.0 10158.0    14.1 10178.0     5.0 10219.0
GR   4.9 10239.0     2.9 10279.0     3.0 10298.0    -2.1 10399.0    -1.1 10420.0
GR  -2.0 10439.0    -2.2 10459.0    -3.0 10478.0    -3.1 10499.0    -5.1 10540.0
GR  -5.1 10559.0    -3.2 10579.0     1.0 10599.0     2.0 10619.0     6.1 10638.0
GR  13.0 10658.0    24.9 10679.0    30.0 10698.0    34.1 10718.0    35.0 10738.0
GR  35.8 10741.0    37.9 10757.0    42.6 10779.0    48.7 10799.0    53.9 10813.0
GR  53.9 10832.0    53.9 10899.0    53.9 10913.0    58.9 11013.0    78.9 11015.0
X1 40.20     37.   10068   10759    1109    1109    1109
X3    10
GR  67.5  9846.0    47.5  9848.0    42.5  9948.0    43.2  9998.0    42.5 10048.0
GR  41.8 10068.0    35.7 10099.0    32.9 10119.0    23.6 10139.0    20.0 10159.0
GR   4.9 10221.0     1.7 10239.0     1.8 10279.0     -.2 10320.0      .8 10340.0
GR  -1.2 10379.0    -3.1 10400.0    -4.3 10420.0    -3.2 10439.0    -4.2 10460.0
GR  -4.1 10520.0    -3.1 10540.0    -5.2 10560.0    -2.1 10580.0     1.9 10599.0
GR   2.8 10619.0     7.8 10639.0    11.8 10659.0    20.8 10680.0    32.1 10699.0
GR  35.6 10719.0    44.4 10748.0    45.9 10759.0    45.9 10849.0    45.9 10859.0
GR  50.9 10959.0    70.9 10961.0
X1 40.39     45.   10138   10879    1003    1003    1003
X3    10
GR  74.9  9797.0    54.9  9799.0    49.9  9899.0    50.8 10009.0    46.1 10049.0
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GR  44.0 10100.0    41.8 10138.0    39.9 10165.0    35.5 10199.0    34.0 10218.0
GR  30.9 10237.0    29.1 10259.0    17.0 10278.0    14.1 10299.0     8.8 10308.0
GR   3.9 10340.0      .1 10359.0    -2.2 10379.0    -3.2 10399.0    -2.1 10420.0
GR  -4.3 10440.0    -5.1 10461.0    -5.1 10481.0    -7.2 10501.0    -7.2 10560.0
GR  -4.1 10581.0    -3.2 10600.0    -3.1 10620.0    -5.4 10641.0    -6.4 10661.0
GR  -2.3 10700.0     1.9 10720.0     7.9 10739.0    18.9 10780.0    27.0 10798.0
GR  33.8 10820.0    35.3 10832.0    43.1 10858.0    53.5 10879.0    55.5 10899.0
GR  55.2 10948.0    53.5 10968.0    53.5 10973.0    58.5 11073.0    78.5 11075.0
X1 40.58     48.   10079   10935    1003    1003    1003
X3    10
GR  73.3  9797.0    53.3  9799.0    48.3  9899.0    50.1  9949.0    49.4  9983.0
GR  46.8  9999.0    43.5 10049.0    43.5 10079.0    41.7 10099.0    35.5 10109.0
GR  32.9 10119.0    23.6 10139.0    19.0 10159.0    10.0 10219.0     9.0 10240.0
GR   6.9 10261.0     4.0 10278.0     2.0 10300.0    -5.1 10321.0    -4.0 10341.0
GR  -1.2 10360.0    -4.1 10380.0    -2.1 10400.0    -5.2 10420.0    -5.1 10441.0
GR  -2.0 10501.0    -3.2 10521.0    -3.2 10561.0    -1.2 10601.0      .8 10621.0
GR   6.7 10660.0    10.9 10680.0    12.8 10699.0    26.8 10720.0    34.9 10740.0
GR  35.3 10750.0    37.4 10760.0    39.6 10801.0    39.4 10820.0    41.5 10865.0
GR  50.0 10900.0    57.4 10921.0    61.2 10935.0    61.2 10950.0    61.2 10969.0
GR  61.2 10980.0    66.2 11080.0    86.2 11082.0
X1 40.99     50.   10029   11118    2165    2165    2165
X3    10
GR  74.9  9797.0    54.9  9799.0    49.9  9899.0    50.8  9949.0    51.0  9999.0
GR  49.9 10029.0    45.3 10050.0    40.3 10099.0    35.7 10130.0    31.0 10151.0
GR  18.1 10189.0    12.0 10230.0    10.9 10249.0     8.9 10269.0     9.0 10289.0
GR   6.1 10310.0     4.2 10329.0    -3.0 10350.0    -5.0 10369.0    -6.0 10390.0
GR  -8.1 10410.0    -5.0 10429.0    -5.0 10449.0    -3.0 10489.0    -2.9 10530.0
GR  -1.2 10548.0     -.9 10569.0     1.0 10591.0     4.0 10609.0    13.0 10630.0
GR  23.9 10650.0    34.8 10689.0    35.4 10704.0    36.7 10714.0    36.5 10750.0
GR  38.3 10769.0    41.0 10849.0    41.8 10914.0    39.4 10925.0    38.7 10949.0
GR  40.0 10982.0    42.2 11010.0    43.8 11048.0    49.4 11068.0    52.5 11087.0
GR  56.3 11118.0    57.0 11137.0    57.5 11159.0    62.5 11259.0    82.5 11261.0
X1 41.30     43.   10098   10823    1636    1636    1636
X3    10
GR  78.3  9899.0    58.3  9901.0    53.3 10001.0    53.7 10051.0    53.3 10098.0
GR  48.7 10106.0    46.0 10116.0    39.5 10151.0    34.2 10162.0    17.2 10200.0
GR  11.9 10211.0     7.8 10250.0     7.8 10270.0     6.9 10285.0     6.9 10310.0
GR   4.7 10351.0     2.9 10371.0     -.2 10391.0    -4.1 10430.0    -3.2 10450.0
GR  -3.1 10471.0     -.1 10530.0     1.8 10551.0     2.7 10571.0     8.9 10611.0
GR  10.0 10630.0    15.7 10670.0    20.0 10711.0    20.9 10730.0    19.9 10751.0
GR  22.1 10771.0    26.3 10790.0    31.2 10810.0    34.4 10820.0    36.4 10823.0
GR  37.6 10848.0    39.2 10860.0    41.3 10901.0    43.6 10950.0    45.0 11000.0
GR  45.9 11050.0    50.9 11150.0    70.9 11152.0
X1 41.50     50.   10035   10799    1056    1056    1056
X3    10
GR  81.3  6923.0    61.3  6925.0    56.3  9925.0    56.3  9950.0    56.3 10000.0
GR  56.3 10006.0    56.3 10017.0    56.3 10035.0    52.7 10041.0    49.3 10065.0
GR  44.6 10080.0    40.9 10100.0    38.4 10110.0    34.5 10130.0    29.9 10148.0
GR  23.0 10170.0    18.9 10190.0    18.1 10209.0    17.0 10229.0    12.9 10251.0
GR   9.0 10270.0     7.0 10290.0     6.0 10310.0     3.4 10327.0    -5.0 10370.0
GR  -9.0 10390.0   -12.1 10410.0   -12.9 10430.0   -13.0 10471.0   -12.0 10490.0
GR  -9.8 10510.0    -9.0 10530.0    -7.8 10550.0    -6.1 10569.0    -1.0 10609.0
GR   0.0 10629.0     5.2 10651.0     9.0 10671.0    15.0 10709.0    23.2 10749.0
GR  32.0 10770.0    34.4 10784.0    44.7 10799.0    45.4 10804.0    44.9 10810.0
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GR  44.7 10829.0    44.7 10870.0    44.7 10904.0    49.7 13904.0    69.7 13906.0
X1 41.70     54.  9989.1 11103.7    1056    1056    1056
X3    10
GR  69.6  6897.5    49.6  6899.5    44.6  9899.5    42.6  9949.3    42.3  9989.1
GR  42.4  9989.2    40.4 10007.6    37.8 10028.2    34.4 10096.0    32.0 10109.1
GR  30.0 10129.1    26.1 10149.8    21.1 10169.0    15.1 10189.8     8.0 10209.7
GR   1.9 10230.5    -5.0 10249.8    -9.0 10270.0   -15.0 10289.3   -24.0 10310.3
GR -27.0 10329.4   -33.0 10389.9   -35.0 10429.3   -37.1 10449.8   -35.9 10469.6
GR -36.1 10490.0   -37.0 10510.5   -37.0 10590.0   -33.9 10609.6   -32.0 10651.3
GR -25.9 10710.0   -15.3 10730.1   -11.2 10750.7    -6.1 10770.7    -2.2 10790.8
GR   6.0 10810.6    10.8 10830.7    22.4 10852.2    31.1 10870.5    34.5 10890.1
GR  36.1 10932.3    38.7 10951.0    40.5 10960.3    43.8 10985.9    45.1 11000.2
GR  47.8 11051.7    52.6 11092.1    58.6 11103.7    58.6 11150.9    58.6 11179.3
GR  58.6 11200.6    58.6 11250.4    63.6 14250.4    83.6 14252.4
X1 41.90     45.   10015   10913    1056    1056    1056
X3    10
GR  65.0  6898.0    45.0  6900.0    40.0  9900.0    39.8  9950.0    39.8  9999.0
GR  39.8 10015.0    34.1 10028.0    23.0 10069.0    19.0 10090.0    15.0 10129.0
GR  14.1 10149.0    14.0 10169.0    15.9 10210.0    19.0 10230.0    21.0 10250.0
GR  21.2 10271.0    14.9 10290.0    11.0 10311.0     2.1 10330.0    -5.0 10350.0
GR -13.0 10370.0   -22.1 10389.0   -29.0 10429.0   -28.0 10450.0   -25.9 10469.0
GR -23.0 10490.0   -14.0 10511.0    -8.1 10570.0    -8.2 10592.0    -7.1 10610.0
GR  -3.0 10650.0    -3.1 10670.0     6.9 10691.0    12.9 10710.0    23.0 10730.0
GR  25.9 10749.0    34.7 10781.0    43.5 10809.0    45.6 10850.0    47.3 10870.0
GR  52.7 10899.0    58.1 10913.0    58.5 10999.0    63.5 13999.0    83.5 14001.0
X1 42.10     37.   10100   10653    1056    1056    1056
X3    10
GR  70.5  6998.0    50.5  7000.0    45.5 10000.0    45.9 10051.0    45.1 10100.0
GR  44.3 10104.0    34.3 10130.0    25.1 10138.0    20.1 10160.0    19.1 10178.0
GR  14.9 10200.0    11.1 10221.0     7.2 10241.0     3.1 10280.0     0.0 10300.0
GR  -4.4 10342.0    -8.0 10362.0   -10.2 10382.0   -14.1 10400.0   -16.0 10420.0
GR -17.0 10440.0   -17.1 10461.0   -12.0 10481.0   -10.1 10499.0    -3.1 10521.0
GR   6.1 10541.0    12.0 10561.0    20.1 10581.0    24.9 10600.0    34.5 10602.0
GR  48.3 10624.0    52.2 10642.0    58.3 10653.0    58.3 10701.0    58.3 10751.0
GR  63.3 13751.0    83.3 13753.0
X1 42.30     39.   10120   10688    1056    1056    1056
X3    10
GR  69.0  6999.0    49.0  7001.0    44.0 10001.0    44.0 10050.0    44.0 10100.0
GR  44.0 10120.0    40.5 10140.0    34.4 10163.0    23.9 10200.0    16.9 10220.0
GR  11.1 10240.0     6.0 10260.0     1.0 10280.0    -7.0 10321.0    -7.0 10341.0
GR -10.3 10362.0   -12.2 10381.0   -15.0 10399.0   -16.0 10420.0   -16.0 10439.0
GR -12.1 10480.0    -8.9 10499.0    -4.0 10520.0    -1.9 10540.0    -2.1 10560.0
GR   4.1 10579.0    16.2 10599.0    26.0 10620.0    34.4 10630.0    41.7 10644.0
GR  44.6 10658.0    53.8 10677.0    57.3 10688.0    58.5 10699.0    57.8 10721.0
GR  57.3 10750.0    57.3 10799.0    62.3 13799.0    82.3 13801.0
X1 42.50     44.   10126   10791    1056    1056    1056
X3    10
GR  74.4  6998.0    54.4  7000.0    49.4 10000.0    47.4 10050.0    46.6 10099.0
GR  46.4 10126.0    39.3 10145.0    35.2 10150.0    34.6 10156.0    37.5 10180.0
GR  40.6 10190.0    36.4 10210.0    34.3 10212.0    31.2 10219.0    27.0 10241.0
GR  24.0 10259.0    19.9 10279.0    16.0 10300.0    12.1 10320.0     5.0 10340.0
GR   -.8 10360.0    -4.9 10380.0    -9.8 10400.0   -13.9 10440.0   -13.9 10500.0
GR -14.8 10519.0   -14.8 10539.0    -8.8 10561.0    -6.7 10600.0    -2.8 10620.0
GR   4.2 10640.0     5.4 10661.0    33.3 10699.0    34.8 10709.0    41.6 10718.0
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GR  41.8 10720.0    44.5 10724.0    46.5 10751.0    53.7 10781.0    60.4 10791.0
GR  60.5 10800.0    60.4 10817.0    65.4 13817.0    85.4 13819.0
X1 42.70     48.   10024   10685    1056    1056    1056
X3    10
GR  83.1  6898.0    63.1  6900.0    58.1  9900.0    58.1  9949.0    58.7  9999.0
GR  58.1 10024.0    54.7 10032.0    51.3 10043.0    48.8 10062.0    47.7 10067.0
GR  34.4 10081.0    25.0 10100.0    20.0 10120.0    15.6 10141.0     9.0 10160.0
GR   3.0 10180.0     1.1 10200.0     -.9 10240.0    -5.0 10280.0   -11.0 10319.0
GR -12.0 10340.0   -13.9 10360.0   -10.8 10379.0   -10.0 10400.0    -9.9 10420.0
GR  -8.8 10441.0    -7.0 10460.0    -3.7 10480.0     9.4 10520.0    19.2 10539.0
GR  26.2 10560.0    31.2 10580.0    34.7 10581.0    38.0 10590.0    38.8 10599.0
GR  37.7 10620.0    43.6 10648.0    48.1 10685.0    48.1 10700.0    48.5 10749.0
GR  48.1 10800.0    48.1 10814.0    50.3 10850.0    55.3 10900.0    55.7 10949.0
GR  56.4 10999.0    61.4 13999.0    81.4 14001.0
X1 42.80     45.   10028   11000     528     528     528
X3    10
GR  80.5  6897.0    60.5  6899.0    55.5  9899.0    55.5  9949.0    55.5 10000.0
GR  55.5 10028.0    51.8 10032.0    47.6 10039.0    34.4 10056.0    28.2 10060.0
GR  19.9 10080.0     6.8 10100.0    -1.0 10120.0      .1 10140.0    -6.9 10160.0
GR  -9.1 10180.0   -12.1 10200.0    -9.0 10261.0    -8.9 10301.0    -5.0 10321.0
GR  -6.9 10340.0    -4.9 10360.0      .1 10380.0     2.0 10400.0     7.9 10439.0
GR  12.1 10459.0    21.2 10479.0    31.0 10499.0    37.5 10526.0    40.7 10552.0
GR  39.6 10600.0    36.8 10649.0    37.7 10699.0    41.4 10750.0    47.6 10803.0
GR  48.5 10849.0    46.6 10901.0    45.7 10951.0    46.5 10964.0    51.7 11000.0
GR  52.1 11027.0    51.7 11051.0    52.2 11100.0    57.2 14100.0    77.2 14102.0
X1 43.00     41.   10131   10727    1056    1056    1056
X3    10
GR  79.9  7047.0    59.9  7049.0    54.9 10049.0    55.5 10069.0    55.4 10100.0
GR  55.0 10123.0    54.4 10131.0    51.0 10139.0    47.6 10150.0    44.0 10157.0
GR  34.5 10167.0    22.7 10190.0     8.8 10209.0    -2.1 10230.0    -9.0 10250.0
GR  -9.1 10270.0   -10.9 10290.0   -12.1 10310.0   -12.0 10330.0    -6.1 10370.0
GR  -5.1 10390.0    -1.0 10430.0     4.9 10490.0     9.2 10511.0    19.1 10570.0
GR  21.8 10591.0    24.0 10610.0    27.9 10631.0    29.1 10650.0    28.0 10671.0
GR  27.9 10690.0    34.5 10704.0    37.2 10715.0    41.7 10727.0    43.5 10751.0
GR  45.2 10788.0    43.7 10801.0    42.5 10852.0    43.6 10900.0    48.6 13900.0
GR  68.6 13902.0
X1 43.20     43.   10027   10800    1056    1056    1056
X3    10
GR  82.0  6898.0    62.0  6900.0    57.0  9900.0    57.0  9950.0    57.0 10001.0
GR  57.0 10027.0    51.6 10038.0    48.1 10049.0    39.4 10087.0    34.5 10095.0
GR  12.9 10121.0    -2.0 10160.0    -7.0 10180.0    -5.8 10200.0    -5.6 10220.0
GR  -2.9 10241.0     2.1 10340.0     4.2 10359.0     4.1 10381.0     6.0 10401.0
GR   7.1 10422.0     9.1 10439.0    11.2 10460.0    11.1 10480.0    12.3 10500.0
GR  14.2 10519.0    15.1 10540.0    19.3 10580.0    21.9 10600.0    23.2 10620.0
GR  26.9 10661.0    30.0 10681.0    32.0 10720.0    34.6 10739.0    37.6 10747.0
GR  40.7 10760.0    41.5 10772.0    44.6 10800.0    45.1 10828.0    52.4 10903.0
GR  55.5 10936.0    60.5 13936.0    80.5 13938.0
X1 43.30     53.   10068   10871     528     528     528
X3    10
GR  77.5  6880.0    57.5  6882.0    52.5  9882.0    53.1  9951.0    54.1 10002.0
GR  50.8 10012.0    46.7 10030.0    45.0 10050.0    43.7 10068.0    38.0 10079.0
GR  34.4 10081.0    28.1 10101.0    21.1 10120.0    16.1 10138.0    12.2 10160.0
GR   6.2 10180.0     3.0 10200.0     2.1 10220.0     2.1 10260.0     3.0 10281.0
GR   4.2 10301.0     4.2 10321.0     5.0 10341.0     6.0 10361.0     6.0 10381.0
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GR    8.2 10403.0     8.0 10421.0     9.3 10441.0    10.2 10461.0    10.0 10482.0
GR   11.1 10500.0    13.1 10541.0    13.1 10561.0    14.1 10580.0    16.2 10599.0
GR   17.1 10620.0    19.1 10639.0    22.0 10660.0    28.4 10721.0    31.2 10739.0
GR   34.6 10741.0    37.6 10751.0    41.5 10774.0    43.5 10795.0    44.8 10815.0
GR   50.6 10850.0    52.6 10871.0    53.7 10900.0    54.0 10950.0    52.6 10971.0
GR   52.6 11001.0    57.6 14001.0    77.6 14003.0
X1 43.40     42.   10069   10845     528     528     528
X3    10
GR   75.7  6987.0    55.7  6989.0    50.7  9989.0    51.2 10001.0    50.8 10030.0
GR   47.3 10050.0    44.2 10069.0    41.1 10080.0    34.6 10084.0    30.1 10099.0
GR   21.1 10121.0    14.9 10160.0    11.7 10182.0     6.0 10201.0     6.1 10240.0
GR    7.1 10261.0     7.0 10301.0     9.1 10340.0     8.9 10400.0    10.1 10421.0
GR   10.0 10522.0    10.9 10541.0     9.9 10560.0    10.9 10580.0    10.9 10600.0
GR   13.1 10621.0    16.0 10640.0    18.1 10662.0    22.2 10681.0    27.3 10701.0
GR   31.3 10720.0    34.6 10730.0    39.1 10740.0    45.5 10775.0    49.2 10799.0
GR   50.2 10823.0    54.6 10845.0    54.6 10849.0    54.6 10900.0    54.6 10950.0
GR   59.6 13950.0    79.6 13952.0
X1 43.60     47.   10019   10731    1056    1056    1056
X3    10
GR   75.7  6898.0    55.7  6900.0    50.7  9900.0    51.5  9951.0    50.7  9970.0
GR   51.0 10000.0    50.7 10019.0    48.8 10032.0    45.7 10058.0    41.4 10067.0
GR   38.4 10079.0    25.0 10120.0    19.0 10140.0    15.0 10161.0    11.1 10180.0
GR    8.0 10201.0     6.1 10221.0     6.0 10261.0     7.1 10281.0     7.0 10301.0
GR    8.2 10320.0     8.1 10341.0     9.1 10360.0     9.0 10380.0     8.0 10401.0
GR    9.1 10420.0     9.1 10440.0     8.0 10460.0     8.0 10521.0     7.1 10540.0
GR    7.1 10580.0    11.9 10601.0    14.0 10620.0    23.8 10660.0    31.9 10680.0
GR   34.5 10699.0    37.8 10708.0    40.5 10718.0    42.4 10731.0    43.5 10800.0
GR   43.4 10850.0    46.5 10888.0    50.3 10895.0    50.6 10950.0    52.7 10999.0
GR   57.7 13999.0    77.7 14001.0
X1 43.70     41.   10093   10644     528     528     528
X3    10
GR   76.6  6948.0    56.6  6950.0    51.6  9950.0    52.9 10001.0    53.0 10050.0
GR   46.6 10065.0    40.6 10079.0    36.8 10093.0    30.0 10109.0    22.1 10129.0
GR   20.1 10149.0    13.1 10171.0    10.1 10189.0     4.9 10209.0     3.0 10230.0
GR    1.1 10250.0    -2.7 10270.0    -2.9 10329.0      .2 10390.0     -.1 10450.0
GR    2.0 10470.0     2.1 10510.0     2.9 10530.0     6.0 10549.0    10.1 10569.0
GR   16.0 10590.0    27.0 10610.0    33.8 10630.0    36.9 10635.0    42.3 10644.0
GR   42.6 10650.0    42.3 10686.0    42.3 10700.0    42.6 10720.0    45.0 10741.0
GR   45.2 10799.0    51.4 10850.0    51.4 10900.0    53.4 10949.0    58.4 13949.0
GR   78.4 13951.0
X1 43.80     57. 10027.1 10650.0     528     528     528
X3    10
GR   79.8  6920.9    59.8  6922.9    54.8  9922.9    54.8  9952.5    55.0  9999.0
GR   54.8 10027.1    51.5 10038.5    47.5 10060.7    40.6 10066.5    37.7 10068.5
GR   23.9 10092.6    15.1 10112.7     6.0 10132.4     -.1 10151.6    -4.0 10171.4
GR -10.0 10191.1   -14.0 10211.8   -16.3 10232.0   -24.9 10251.2   -28.1 10290.7
GR -28.1 10311.5   -27.3 10330.2   -26.0 10350.5   -19.1 10371.3   -19.0 10391.6
GR -18.1 10410.3   -15.0 10430.6   -10.3 10449.4    -6.0 10469.7     4.1 10489.6
GR   15.9 10530.2    27.1 10550.0    30.3 10568.3    34.1 10571.3    45.5 10610.9
GR   46.6 10617.3    47.4 10650.0    47.4 10700.3    47.4 10748.7    47.4 10799.6
GR   47.4 10816.9    47.4 10848.5    47.4 10897.9    47.4 10948.2    47.4 10979.9
GR   47.4 10998.7    47.4 11047.6    47.4 11063.9    50.2 11088.6    50.8 11088.7
GR   55.5 11106.4    55.5 11132.6    52.4 11146.9    55.3 11197.3    55.7 11216.1
GR   60.7 14216.1    80.7 14218.1
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X1 44.00     40.   10103   10699    1056    1056    1056
X3    10
GR  79.8  6996.0    59.8  6998.0    54.8  9998.0    54.8 10096.0    54.8 10103.0
GR  45.3 10112.0    38.8 10121.0    34.0 10127.0    24.5 10147.0    16.8 10169.0
GR   9.5 10188.0     2.9 10208.0    -7.2 10248.0   -11.2 10269.0   -13.9 10288.0
GR -14.1 10309.0   -17.2 10329.0   -15.3 10348.0   -15.2 10368.0    -2.2 10408.0
GR   1.9 10430.0     3.9 10449.0     4.8 10468.0     6.8 10488.0    11.9 10509.0
GR  15.8 10549.0    17.7 10570.0    20.7 10588.0    26.8 10609.0    34.2 10625.0
GR  37.0 10633.0    40.2 10649.0    39.3 10669.0    41.1 10687.0    43.8 10691.0
GR  47.6 10699.0    53.1 10760.0    50.7 10799.0    55.7 13799.0    75.7 13801.0
X1 44.20     43.   10150   10745    1056    1056    1056
X3    10
GR  69.2  6997.0    49.2  6999.0    44.2  9999.0    43.5 10050.0    43.1 10101.0
GR  43.1 10150.0    42.8 10170.0    40.7 10180.0    37.7 10187.0    34.3 10189.0
GR  26.2 10211.0    17.1 10231.0    13.2 10250.0     7.1 10291.0     3.2 10312.0
GR   1.2 10332.0      .2 10352.0     0.0 10372.0     1.0 10390.0     1.4 10432.0
GR   2.3 10451.0     1.2 10471.0     1.4 10492.0     2.3 10511.0     2.5 10553.0
GR   1.5 10572.0     1.3 10593.0     -.5 10612.0     7.6 10632.0    16.5 10652.0
GR  25.7 10671.0    29.1 10676.0    35.0 10684.0    37.8 10687.0    40.7 10705.0
GR  46.6 10717.0    48.4 10734.0    57.0 10745.0    57.1 10751.0    57.0 10801.0
GR  57.0 10851.0    62.0 13851.0    82.0 13853.0
X1 44.40     46. 10313.5 10871.4    1056    1056    1056
X3    10
GR  71.2  6914.6    51.2  6916.6    46.2  9916.6    45.6  9949.5    45.6 10000.3
GR  45.6 10050.5    45.6 10100.6    45.6 10163.0    45.6 10200.3    45.6 10249.9
GR  45.6 10285.9    45.6 10313.5    44.7 10330.9    34.5 10350.4    30.1 10381.4
GR  24.1 10402.0    21.0 10422.0    19.1 10441.0    16.1 10461.5    12.2 10481.6
GR  10.0 10501.5     9.2 10520.9     5.2 10560.8     3.1 10601.2     -.9 10639.6
GR  -3.0 10662.0    -4.8 10700.3    -8.0 10721.3    -9.8 10740.3    -8.8 10761.1
GR  -4.5 10780.7      .5 10801.7     7.5 10819.7    14.6 10830.2    21.4 10840.8
GR  27.5 10849.9    35.0 10859.9    46.3 10865.7    52.6 10867.8    60.0 10871.4
GR  60.2 10875.8    60.0 10900.7    60.0 10904.6    60.0 10999.9    65.0 13999.9
GR  85.0 14001.9
X1 44.50     43. 10234.3 10786.2     528     528     528
X3    10
GR  73.7  7099.0    53.7  7101.0    48.7 10101.0    48.7 10151.6    48.7 10201.1
GR  48.7 10234.3    46.7 10245.3    45.3 10251.7    44.6 10259.2    38.8 10271.3
GR  33.0 10276.4    29.8 10281.5    26.0 10299.5    18.9 10321.0     9.8 10341.1
GR   4.8 10360.6    -1.2 10400.0    -2.9 10420.4    -6.1 10441.3    -8.0 10461.7
GR -12.1 10500.0   -13.1 10519.8   -10.0 10541.5   -11.1 10560.4   -11.2 10580.7
GR -10.0 10601.5   -11.1 10620.4    -5.1 10641.0     6.2 10664.9    13.0 10680.0
GR  17.0 10689.8    21.0 10700.1    28.0 10719.7    34.3 10729.4    40.1 10759.9
GR  48.2 10770.5    58.4 10786.1    58.3 10786.2    58.3 10799.9    58.8 10851.0
GR  58.4 10901.0    63.4 13901.0    83.4 13903.0
X1 44.60     46. 10100.1 10779.3     528     528     528
X3    10
GR  73.3  6998.7    53.3  7000.7    48.3 10000.7    48.6 10050.5    48.3 10100.1
GR  46.5 10106.2    43.3 10120.5    43.6 10150.1    44.5 10159.4    41.2 10170.7
GR  36.5 10179.7    34.4 10180.4    28.8 10191.0    23.8 10210.4    17.9 10230.9
GR  11.9 10242.5    -1.3 10271.3    -9.2 10310.8   -21.2 10331.6   -27.3 10352.1
GR -32.4 10372.0   -34.5 10391.1   -33.4 10411.7   -33.3 10431.0   -24.2 10471.0
GR -11.3 10491.7   -11.2 10512.0    -7.2 10526.3    -3.0 10550.1     9.0 10591.2
GR  14.0 10610.4    24.0 10630.9    31.2 10650.3    34.5 10657.9    40.3 10675.5
GR  39.9 10690.4    42.9 10699.9    46.9 10709.8    52.2 10747.8    57.4 10779.3
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GR  58.8 10799.4    60.1 10835.4    59.7 10848.8    60.2 10898.2    65.2 13898.2
GR  85.2 13900.2
X1 44.70     41.   10121   10659     528     528     528
X3    10
GR  78.3  6999.0    58.3  7001.0    53.3 10001.0    53.4 10050.0    53.3 10121.0
GR  42.3 10131.0    34.6 10141.0    25.8 10160.0    19.9 10181.0    14.0 10200.0
GR   6.1 10221.0      .2 10240.0    -3.8 10261.0    -8.8 10280.0    -9.0 10301.0
GR -10.8 10321.0   -11.9 10342.0   -11.9 10361.0   -14.0 10380.0   -16.8 10400.0
GR -10.0 10420.0    -7.9 10441.0    -6.9 10460.0    -4.8 10480.0    -3.9 10501.0
GR   -.9 10520.0     3.2 10540.0     8.3 10560.0    15.1 10579.0    24.3 10598.0
GR  32.2 10610.0    34.6 10628.0    39.4 10643.0    42.5 10648.0    47.0 10659.0
GR  48.0 10698.0    48.2 10728.0    47.0 10748.0    47.0 10773.0    52.0 13773.0
GR  72.0 13775.0
X1 44.90     36.   10030   10479    1056    1056    1056
X3    10
GR  77.4  6947.0    57.4  6949.0    52.4  9949.0    53.0 10000.0    47.4 10010.0
GR  44.8 10030.0    34.1 10054.0    24.8 10069.0    15.9 10090.0    12.8 10094.0
GR   1.1 10110.0    -1.2 10131.0    -4.2 10151.0    -8.9 10170.0   -11.0 10191.0
GR -13.7 10210.0   -15.7 10230.0   -13.9 10250.0   -10.8 10269.0   -10.9 10290.0
GR  -4.8 10330.0    -1.1 10350.0     5.2 10388.0    10.2 10410.0    18.2 10429.0
GR  28.2 10449.0    34.5 10460.0    41.5 10479.0    41.5 10549.0    43.7 10649.0
GR  43.6 10698.0    42.8 10748.0    46.7 10798.0    48.0 10948.0    53.0 13948.0
GR  73.0 13950.0
X1 45.10     35.   10162   10727    1056    1056    1056
X3    10
GR  82.2  6996.0    62.2  6998.0    57.2  9998.0    57.4 10098.0    58.3 10127.0
GR  53.2 10148.0    49.4 10162.0    40.4 10169.0    34.3 10186.0    26.9 10199.0
GR  12.7 10222.0     4.8 10238.0     1.9 10259.0    -9.2 10278.0    -9.2 10298.0
GR -13.0 10319.0    -9.2 10399.0    -7.3 10419.0    -5.2 10458.0     6.8 10539.0
GR  14.0 10559.0    18.1 10578.0    23.0 10599.0    30.1 10618.0    33.1 10627.0
GR  37.2 10635.0    41.9 10643.0    41.9 10658.0    46.3 10699.0    50.9 10727.0
GR  50.9 10747.0    50.9 10798.0    54.2 10848.0    59.2 13848.0    79.2 13850.0
NC  .040    .040    .036
X1 45.30     42.   10103   10799    1056    1056    1056
X3    10
GR  83.2  6998.0    63.2  7000.0    58.2 10000.0    58.2 10050.0    58.2 10100.0
GR  58.2 10103.0    54.2 10116.0    50.3 10125.0    44.8 10127.0    34.3 10132.0
GR  31.2 10135.0    27.9 10140.0    20.0 10160.0    14.9 10180.0     8.0 10200.0
GR    .9 10219.0    -1.1 10240.0    -7.0 10279.0    -7.9 10299.0    -7.9 10340.0
GR  -9.0 10360.0    -7.0 10400.0    -5.0 10419.0    -2.1 10479.0     1.0 10500.0
GR   5.0 10519.0     7.1 10559.0    11.0 10579.0    24.3 10599.0    30.1 10620.0
GR  34.6 10626.0    40.3 10635.0    45.3 10648.0    45.7 10659.0    48.6 10698.0
GR  51.1 10749.0    55.7 10799.0    57.1 10843.0    57.8 10858.0    57.6 10907.0
GR  62.6 13907.0    82.6 13909.0
X1 45.50     38.   10112   10875    1056    1056    1056
X3    10
GR  83.3  7000.0    63.3  7002.0    58.3 10002.0    58.3 10112.0    47.6 10152.0
GR  34.4 10200.0    32.2 10212.0    27.9 10233.0    23.0 10252.0    17.2 10271.0
GR  10.1 10286.0     1.5 10301.0    -5.2 10312.0   -12.1 10332.0    -8.0 10371.0
GR  -7.8 10413.0    -4.2 10490.0    -1.8 10512.0     3.2 10532.0     4.2 10552.0
GR   3.1 10573.0     6.1 10591.0     8.0 10612.0    14.3 10628.0    25.2 10653.0
GR  33.0 10674.0    43.6 10698.0    46.9 10724.0    49.9 10776.0    49.1 10804.0
GR  49.4 10818.0    53.6 10854.0    57.8 10875.0    58.1 10892.0    57.8 10913.0
GR  57.8 10973.0    62.8 13973.0    82.8 13975.0
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X1 45.60     47.   10107   10720     528     528     528
X3    10
GR  83.7  7000.0    63.7  7002.0    58.7 10002.0    58.7 10052.0    58.7 10095.0
GR  58.7 10107.0    51.3 10127.0    45.3 10151.0    41.7 10164.0    37.0 10182.0
GR  36.1 10202.0    34.4 10216.0    33.1 10223.0    26.9 10242.0    23.9 10249.0
GR  16.9 10267.0    12.0 10281.0     2.6 10300.0    -3.9 10321.0    -7.1 10342.0
GR -14.1 10362.0   -10.0 10402.0    -7.1 10462.0    -7.1 10481.0    -1.1 10521.0
GR   0.0 10542.0     7.7 10580.0     7.0 10600.0    12.0 10620.0    18.1 10641.0
GR  26.2 10660.0    34.6 10676.0    43.3 10691.0    46.8 10696.0    49.1 10709.0
GR  50.3 10720.0    50.3 10740.0    50.3 10750.0    50.3 10774.0    50.6 10798.0
GR  53.0 10818.0    53.9 10842.0    53.3 10863.0    50.3 10876.0    50.3 10919.0
GR  55.3 13919.0    75.3 13921.0
X1 45.70     43.   10143   10828     528     528     528
X3    10
GR  80.8  6996.0    60.8  6998.0    55.8  9998.0    55.8 10048.0    55.8 10098.0
GR  55.8 10143.0    48.7 10164.0    38.4 10173.0    37.5 10183.0    34.5 10187.0
GR  33.9 10198.0    25.0 10219.0     9.0 10239.0     5.0 10259.0    -5.0 10299.0
GR  -3.1 10319.0    -9.0 10341.0   -12.0 10359.0    -8.9 10380.0    -7.0 10398.0
GR  -5.8 10420.0    -1.9 10460.0     -.9 10481.0     1.1 10501.0     3.1 10539.0
GR   5.1 10559.0    11.1 10600.0    26.1 10640.0    34.6 10648.0    37.3 10667.0
GR  42.0 10672.0    44.7 10680.0    44.6 10699.0    43.3 10715.0    47.4 10756.0
GR  52.7 10798.0    55.9 10828.0    56.9 10848.0    57.1 10873.0    56.3 10898.0
GR  55.9 10928.0    60.9 13928.0    80.9 13930.0
X1 45.90     42.   10130   10825    1056    1056    1056
X3    10
GR  80.2  6998.0    60.2  7000.0    55.2 10000.0    55.2 10050.0    55.3 10100.0
GR  55.2 10130.0    52.5 10140.0    47.9 10150.0    34.5 10168.0    32.1 10180.0
GR  22.9 10200.0     6.0 10219.0    -2.1 10239.0    -2.1 10260.0   -21.1 10280.0
GR -23.2 10299.0   -23.0 10319.0   -21.0 10340.0   -13.1 10360.0    -9.2 10380.0
GR  -3.1 10421.0     1.0 10460.0     4.3 10481.0     6.1 10500.0    11.0 10520.0
GR  26.0 10558.0    34.2 10575.0    37.4 10583.0    41.4 10588.0    44.1 10599.0
GR  41.8 10617.0    45.0 10659.0    43.6 10673.0    43.3 10699.0    45.7 10729.0
GR  46.5 10746.0    45.3 10766.0    52.2 10825.0    54.3 10849.0    54.9 10929.0
GR  59.9 13929.0    79.9 13931.0
X1 46.10     45.   10025   10576    1056    1056    1056
X3    10
GR  78.8  6899.0    58.8  6901.0    53.8  9901.0    53.8  9951.0    53.8  9991.0
GR  53.8 10001.0    53.8 10025.0    48.5 10037.0    37.1 10060.0    34.6 10062.0
GR  29.2 10072.0    26.0 10092.0    17.9 10112.0     1.6 10131.0    -7.1 10152.0
GR -13.0 10171.0   -16.0 10191.0   -17.9 10212.0   -16.8 10233.0   -14.8 10251.0
GR  -7.0 10291.0    -4.8 10311.0    -3.9 10330.0      .2 10372.0     1.2 10392.0
GR   5.4 10432.0    10.3 10451.0    25.3 10490.0    41.2 10526.0    43.5 10533.0
GR  47.9 10576.0    47.9 10601.0    47.9 10650.0    47.9 10675.0    47.9 10696.0
GR  47.9 10718.0    48.2 10788.0    50.8 10810.0    57.0 10838.0    57.7 10850.0
GR  54.9 10896.0    52.8 10920.0    52.1 10949.0    57.1 13949.0    77.1 13951.0
X1 46.30     40.   10069   10732    1056    1056    1056
X3    10
GR  76.9  6947.0    56.9  6949.0    51.9  9949.0    52.5 10000.0    52.4 10043.0
GR  51.6 10069.0    48.9 10087.0    42.4 10100.0    37.4 10112.0    34.4 10117.0
GR  31.6 10120.0    21.9 10139.0    12.8 10160.0     9.7 10180.0     2.5 10200.0
GR  -1.5 10221.0    -3.5 10261.0    -6.4 10278.0    -6.3 10299.0    -8.4 10319.0
GR -17.3 10340.0   -15.3 10380.0   -10.3 10419.0    -5.7 10441.0    -1.2 10459.0
GR   2.9 10480.0    15.0 10519.0    26.2 10539.0    30.1 10560.0    34.6 10561.0
GR  37.8 10569.0    42.3 10588.0    43.8 10649.0    45.9 10676.0    52.7 10732.0
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GR  52.7 10755.0    52.7 10777.0    52.7 10799.0    57.7 13799.0    77.7 13801.0
X1 46.50     42. 10140.3 10780.2    1056    1056    1056
X3    10
GR  79.5  7048.0    59.5  7050.0    54.5 10050.0    54.7 10100.2    53.0 10140.3
GR  36.9 10149.6    33.9 10159.3    28.8 10170.9    22.9 10189.8    19.1 10210.9
GR  17.0 10230.2     8.0 10251.9     4.0 10271.0    -6.8 10291.6    -9.9 10310.7
GR -10.8 10331.5   -15.0 10371.5   -15.9 10391.8   -15.9 10411.6   -10.8 10431.4
GR  -7.7 10451.4    -2.0 10471.2     2.0 10491.4    10.0 10571.9    15.8 10590.2
GR  24.0 10610.6    32.9 10629.1    34.5 10630.7    36.6 10631.9    42.0 10643.2
GR  43.1 10649.7    41.0 10677.4    41.7 10689.3    45.5 10704.5    49.5 10725.6
GR  52.8 10749.7    55.9 10780.2    57.5 10815.1    57.1 10900.0    57.2 10900.1
GR  62.2 13900.1    82.2 13902.1
X1 46.70     36.   10149   10706    1056    1056    1056
X3    10
GR  74.2  7049.0    54.2  7051.0    49.2 10051.0    50.5 10100.0    45.7 10149.0
GR  36.1 10169.0    34.4 10170.0    25.5 10192.0    20.1 10211.0    17.0 10231.0
GR  14.9 10251.0     9.0 10270.0     8.9 10289.0    -1.0 10330.0    -3.1 10352.0
GR  -3.0 10371.0    -4.9 10410.0    -4.2 10432.0    -6.0 10450.0    -4.0 10491.0
GR  -6.1 10510.0    -6.9 10531.0    -6.9 10550.0    -1.1 10570.0     1.1 10589.0
GR   8.0 10609.0    33.9 10649.0    35.3 10654.0    45.9 10671.0    52.7 10692.0
GR  60.5 10706.0    60.5 10749.0    60.5 10797.0    60.5 10819.0    65.5 13819.0
GR  85.5 13821.0
X1 46.80     37.   10186   10693     528     528     528
X3    10
GR  72.3  7075.0    52.3  7077.0    47.3 10077.0    47.3 10101.0    47.3 10151.0
GR  48.0 10167.0    47.3 10186.0    38.9 10206.0    37.9 10211.0    34.0 10212.0
GR  29.8 10222.0    23.8 10241.0    13.8 10262.0    10.1 10283.0     4.2 10341.0
GR   4.1 10360.0     2.0 10381.0    -1.9 10400.0    -4.0 10422.0    -5.0 10441.0
GR  -7.7 10460.0   -11.5 10498.0   -12.7 10520.0   -12.8 10540.0   -11.9 10560.0
GR  -5.7 10580.0     4.0 10620.0    27.1 10640.0    33.7 10654.0    37.5 10658.0
GR  44.8 10675.0    50.7 10684.0    58.4 10693.0    59.0 10729.0    58.4 10750.0
GR  63.4 13750.0    83.4 13752.0
X1 47.00     31.   10173   10745    1056    1056    1056
X3    10
GR  73.7  7123.0    53.7  7125.0    48.7 10125.0    47.3 10173.0    37.7 10207.0
GR  36.7 10213.0    34.5 10219.0    27.0 10259.0    21.0 10299.0    11.0 10339.0
GR   8.2 10359.0     6.1 10379.0     2.1 10399.0      .1 10420.0    -6.0 10459.0
GR -11.9 10520.0   -10.9 10540.0    -6.0 10559.0    -3.8 10600.0     1.0 10621.0
GR   5.1 10640.0    10.9 10660.0    18.0 10678.0    28.9 10699.0    39.6 10712.0
GR  42.5 10718.0    47.6 10723.0    58.9 10745.0    58.9 10874.0    63.9 13874.0
GR  83.9 13876.0
X1 47.20     37.   10149   10738    1056    1056    1056
X3    10
GR  75.2  7078.0    55.2  7080.0    50.2 10080.0    50.5 10101.0    50.2 10149.0
GR  47.9 10181.0    43.0 10201.0    37.4 10219.0    34.2 10221.0    27.0 10248.0
GR  23.9 10269.0    20.1 10289.0    15.1 10308.0    11.2 10349.0     8.1 10368.0
GR   7.2 10389.0     5.0 10409.0     1.2 10449.0    -1.8 10469.0    -3.7 10488.0
GR  -6.0 10509.0    -8.9 10529.0   -10.9 10549.0   -10.8 10568.0    -4.9 10587.0
GR    .3 10629.0    12.0 10667.0    21.9 10686.0    34.0 10704.0    37.9 10713.0
GR  42.5 10717.0    53.5 10734.0    57.5 10738.0    57.6 10764.0    57.5 10784.0
GR  62.5 13784.0    82.5 13786.0
X1 47.30     44. 10141.0 10788.6     528     528     528
X3    10
GR  78.4  7022.9    58.4  7024.9    53.4 10024.9    53.4 10050.2    53.4 10098.9
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GR  53.4 10118.7    53.4 10141.0    51.1 10150.5    48.2 10168.4    47.3 10189.3
GR  46.8 10222.6    43.3 10228.6    40.6 10237.6    37.9 10249.1    34.3 10249.2
GR  22.9 10289.3    13.9 10329.7    11.0 10350.7     9.1 10370.1     8.0 10391.0
GR   6.0 10410.4     5.1 10430.7     2.9 10449.2     -.1 10470.1    -1.9 10490.0
GR  -2.0 10510.4    -4.9 10530.3    -7.0 10550.2    -8.1 10570.1    -4.8 10590.9
GR  -5.1 10610.2    -4.1 10631.1    -2.0 10649.9     4.1 10670.0     9.0 10690.8
GR  10.8 10710.6    21.0 10731.1    45.1 10759.8    52.7 10778.9    59.3 10788.6
GR  59.3 10832.3    59.3 10850.7    64.3 13850.7    84.3 13852.7
X1 47.40     37. 10151.6 10772.9     528     528     528
X3    10
GR  77.3  7047.3    57.3  7049.3    52.3 10049.3    51.4 10115.9    51.4 10151.6
GR  49.3 10165.1    47.3 10198.9    45.4 10255.6    27.6 10301.1    22.1 10321.2
GR  14.0 10340.4     9.0 10361.0     3.1 10399.5    -1.1 10420.0    -6.0 10440.1
GR -10.1 10460.6   -12.3 10480.6   -12.0 10499.9   -11.0 10520.2   -12.1 10539.6
GR -10.0 10580.3    -7.9 10600.0    -4.0 10620.2     2.9 10640.2     5.9 10661.0
GR  11.0 10680.1    21.0 10700.0    34.2 10730.2    35.9 10733.1    41.3 10739.3
GR  46.9 10752.5    54.8 10767.0    59.2 10772.9    59.2 10800.1    59.2 10900.4
GR  64.2 13900.4    84.2 13902.4
X1 47.50     45.   10149   10771     528     528     528
X3    10
GR  78.7  7061.0    58.7  7063.0    53.7 10063.0    53.7 10084.0    53.7 10099.0
GR  53.7 10149.0    49.7 10161.0    47.3 10174.0    45.6 10199.0    47.3 10212.0
GR  44.6 10224.0    38.4 10234.0    36.7 10240.0    34.6 10249.0    32.9 10260.0
GR  26.8 10280.0    23.1 10300.0     -.3 10361.0    -4.6 10378.0    -7.9 10402.0
GR -11.0 10420.0   -12.9 10440.0   -18.9 10480.0   -17.8 10500.0   -18.9 10519.0
GR -15.9 10540.0   -19.0 10560.0   -17.0 10581.0    -8.0 10601.0    -2.9 10620.0
GR   4.1 10641.0     7.7 10661.0    31.7 10700.0    34.3 10706.0    37.6 10712.0
GR  42.5 10717.0    45.6 10725.0    50.2 10759.0    56.4 10771.0    57.2 10799.0
GR  57.4 10850.0    56.4 10874.0    58.5 10891.0    63.5 13891.0    83.5 13893.0
X1 47.70     46. 10088.7 10800.4    1056    1056    1056
X3    10
GR  83.6  6973.3    63.6  6975.3    58.6  9975.3    58.6 10001.5    58.6 10051.1
GR  58.6 10088.7    50.7 10103.2    48.6 10118.0    48.7 10143.3    40.2 10157.8
GR  36.6 10165.7    34.3 10166.2    30.2 10171.2    25.1 10190.1    11.6 10212.5
GR   3.1 10231.9     1.7 10253.2      .1 10271.1      .3 10290.4    -4.7 10310.3
GR -16.9 10350.5   -17.0 10369.4   -17.9 10390.7   -16.9 10411.0   -14.8 10429.8
GR  -7.9 10471.9    -3.0 10490.7    -1.8 10510.0    -1.1 10530.8     1.9 10550.6
GR   7.0 10570.9    13.7 10588.7    19.5 10608.9    29.0 10630.2    34.3 10643.0
GR  36.7 10658.8    38.8 10679.1    43.4 10697.9    48.2 10713.3    50.6 10749.4
GR  55.1 10779.6    59.7 10800.4    59.7 10849.0    59.7 10870.8    64.7 13870.8
GR  84.7 13872.8
X1 47.80     33.   10109   10783     528     528     528
X3    10
GR  84.5  6999.0    64.5  7001.0    59.5 10001.0    59.6 10100.0    59.5 10109.0
GR  22.0 10160.0    12.0 10180.0      .2 10220.0     0.0 10241.0    -3.9 10260.0
GR  -9.0 10280.0    -8.9 10320.0    -7.9 10341.0    -4.0 10380.0    -2.0 10421.0
GR    .1 10440.0     -.1 10460.0     1.9 10479.0     3.1 10500.0     5.0 10519.0
GR   8.1 10539.0    23.0 10601.0    32.9 10621.0    32.9 10640.0    34.2 10669.0
GR  39.4 10680.0    43.5 10702.0    47.6 10750.0    51.8 10783.0    51.8 10849.0
GR  51.8 10884.0    56.8 13884.0    76.8 13886.0
X1 48.00     36.   10173   10768    1056    1056    1056
X3    10
GR  82.5  7050.0    62.5  7052.0    57.5 10052.0    58.1 10101.0    57.0 10151.0
GR  56.3 10173.0    40.2 10196.0    27.1 10209.0     9.1 10250.0     8.1 10270.0
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GR  -1.0 10290.0    -7.1 10310.0   -10.0 10330.0   -10.0 10350.0   -11.0 10369.0
GR -15.1 10390.0   -15.1 10409.0   -14.0 10430.0   -10.1 10449.0    -8.1 10471.0
GR  -5.1 10489.0    -5.1 10509.0    -2.1 10530.0     2.9 10549.0    39.2 10645.0
GR  40.5 10676.0    42.9 10700.0    43.4 10734.0    45.7 10750.0    50.3 10768.0
GR  51.9 10784.0    52.4 10800.0    52.3 10851.0    53.2 10876.0    58.2 13876.0
GR  78.2 13878.0
X1 48.20     42.   10051   10651    1056    1056    1056
X3    10
GR  83.6  7003.0    63.6  7005.0    58.6 10005.0    58.6 10051.0    53.7 10057.0
GR  44.0 10084.0    42.4 10103.0    39.0 10123.0    34.5 10130.0    30.9 10144.0
GR  21.0 10164.0     3.1 10184.0   -10.6 10224.0    -6.9 10244.0    -6.0 10264.0
GR  -7.8 10283.0   -13.7 10304.0   -17.9 10322.0   -17.6 10362.0   -12.9 10382.0
GR  -8.7 10403.0    -1.9 10422.0     4.9 10443.0     8.7 10482.0    10.8 10502.0
GR  24.6 10541.0    33.8 10561.0    35.3 10565.0    37.9 10580.0    42.7 10600.0
GR  46.3 10621.0    48.6 10651.0    48.7 10680.0    48.6 10700.0    48.6 10750.0
GR  48.6 10775.0    52.1 10800.0    50.9 10824.0    50.2 10849.0    51.9 10898.0
GR  56.9 13898.0    76.9 13900.0
X1 48.30     40.   10195   10771     528     528     528
X3    10
GR  83.4  6997.0    63.4  6999.0    58.4  9999.0    58.3 10050.0    56.1 10083.0
GR  53.1 10099.0    49.3 10149.0    48.9 10164.0    46.3 10195.0    43.3 10206.0
GR  38.2 10213.0    34.4 10218.0    30.8 10230.0    22.7 10250.0    16.9 10270.0
GR   6.1 10300.0     2.1 10309.0    -4.0 10371.0   -10.0 10409.0   -11.0 10429.0
GR -10.8 10450.0    -7.8 10470.0    -7.0 10491.0    -5.1 10509.0    -4.0 10530.0
GR  -2.1 10549.0    -1.0 10568.0     -.1 10589.0     2.0 10610.0     8.1 10630.0
GR  34.3 10675.0    36.1 10680.0    42.3 10711.0    46.2 10748.0    53.4 10771.0
GR  53.4 10798.0    55.1 10848.0    54.2 10889.0    59.2 13889.0    79.2 13891.0
X1 48.50     37.   10117   10638    1056    1056    1056
X3    10
GR  75.5  6998.0    55.5  7000.0    50.5 10000.0    47.3 10048.0    45.9 10099.0
GR  42.9 10117.0    34.7 10141.0    24.0 10181.0    18.0 10199.0    13.2 10220.0
GR   6.2 10241.0     4.2 10259.0      .7 10281.0    -3.0 10300.0    -6.8 10338.0
GR  -6.7 10358.0    -7.8 10378.0    -7.9 10398.0    -9.7 10440.0    -8.8 10459.0
GR  -8.7 10478.0    -5.9 10498.0     -.2 10518.0     8.3 10537.0    13.1 10558.0
GR  21.4 10578.0    34.7 10597.0    49.6 10609.0    49.9 10618.0    51.6 10625.0
GR  59.4 10638.0    59.7 10642.0    59.4 10661.0    59.4 10698.0    59.4 10748.0
GR  64.4 13748.0    84.4 13750.0
X1 48.70     32.   10098   10654    1056    1056    1056
X3    10
GR  75.5  7046.0    55.5  7048.0    50.5 10048.0    50.3 10098.0    47.6 10118.0
GR  43.9 10136.0    32.9 10159.0    28.8 10181.0    23.2 10219.0    17.0 10240.0
GR   9.1 10259.0      .9 10300.0    -3.2 10340.0    -6.0 10400.0    -8.0 10440.0
GR  -8.2 10461.0    -9.0 10480.0    -7.8 10500.0    -5.0 10520.0    -1.0 10541.0
GR   4.0 10559.0    10.9 10579.0    25.5 10599.0    34.4 10616.0    48.7 10632.0
GR  59.7 10650.0    60.6 10654.0    60.6 10700.0    60.6 10750.0    60.6 10759.0
GR  65.6 13759.0    85.6 13761.0
X1 48.90     34.   10151   10790    1056    1056    1056
X3    10
GR  76.4  7049.0    56.4  7051.0    51.4 10051.0    52.5 10102.0    48.6 10151.0
GR  41.8 10175.0    37.5 10187.0    34.7 10189.0    26.1 10210.0    21.0 10231.0
GR   8.9 10270.0     5.8 10290.0     2.0 10329.0      .8 10349.0     1.0 10371.0
GR  -1.2 10389.0    -1.0 10410.0    -1.9 10430.0    -2.1 10449.0    -2.9 10469.0
GR  -3.1 10489.0    -7.1 10529.0     -.9 10571.0      .9 10590.0    14.8 10631.0
GR  20.0 10650.0    28.3 10671.0    35.0 10681.0    38.5 10690.0    51.0 10769.0
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GR  58.3 10790.0    58.7 10900.0    63.7 13900.0    83.7 13902.0
X1 49.10     32.   10099   10799    1056    1056    1056
X3    10
GR  80.7  6997.0    60.7  6999.0    55.7  9999.0    55.7 10048.0    55.7 10099.0
GR  43.9 10144.0    38.6 10158.0    34.2 10160.0    27.8 10181.0    15.9 10200.0
GR  10.1 10220.0     5.8 10243.0     3.0 10261.0      .9 10281.0     0.0 10299.0
GR   -.1 10360.0      .9 10381.0     1.0 10521.0     0.0 10539.0     4.0 10580.0
GR   7.1 10597.0    10.9 10620.0    18.1 10640.0    30.7 10660.0    37.9 10680.0
GR  46.9 10709.0    49.7 10749.0    59.4 10799.0    60.0 10849.0    59.4 10899.0
GR  64.4 13899.0    84.4 13901.0
X1 49.30     35.   10115   10766    1056    1056    1056
X3    10
GR  78.3  6998.0    58.3  7000.0    53.3 10000.0    53.2 10050.0    52.6 10098.0
GR  50.9 10115.0    44.1 10136.0    38.0 10149.0    34.4 10151.0    28.2 10170.0
GR  16.1 10210.0    11.1 10230.0    10.1 10249.0     2.9 10290.0     1.0 10309.0
GR   1.0 10390.0     2.1 10410.0     1.8 10490.0     3.1 10510.0     2.9 10551.0
GR   1.8 10570.0     5.9 10591.0     5.9 10610.0    23.0 10650.0    29.8 10671.0
GR  39.2 10681.0    43.3 10690.0    45.3 10701.0    46.9 10715.0    51.9 10766.0
GR  51.9 10800.0    51.9 10851.0    51.9 10901.0    56.9 13901.0    76.9 13903.0
X1 49.50     37. 10133.8 10805.4    1056    1056    1056
X3    10
GR  82.2  6996.5    62.2  6998.5    57.2  9998.5    57.2 10048.2    57.2 10072.6
GR  57.7 10097.5    57.2 10108.9    57.2 10133.8    52.0 10149.2    42.0 10198.4
GR  39.1 10202.8    34.2 10217.7    31.2 10218.2    23.9 10239.5    13.9 10281.2
GR  10.3 10299.1     6.0 10340.8     3.1 10359.7     1.3 10398.0     1.1 10419.9
GR    .4 10440.3      .2 10479.1     1.1 10498.5     1.2 10519.4      .2 10538.8
GR   1.3 10559.2     1.4 10638.3     3.1 10660.2     6.8 10678.2    17.1 10699.6
GR  32.1 10720.2    37.7 10741.1    51.0 10805.4    53.6 10849.7    55.4 10908.4
GR  60.4 13908.4    80.4 13910.4
X1 49.70     37.   10111   10779    1056    1056    1056
X3    10
GR  82.5  6999.0    62.5  7001.0    57.5 10001.0    57.5 10034.0    57.5 10049.0
GR  57.5 10111.0    50.7 10149.0    49.4 10199.0    46.3 10224.0    40.2 10241.0
GR  34.8 10251.0    24.1 10279.0    19.9 10299.0    17.0 10320.0     7.0 10361.0
GR   4.6 10380.0     1.6 10400.0    -3.0 10500.0    -2.9 10559.0    -4.0 10578.0
GR  -3.9 10600.0    -2.7 10619.0      .1 10638.0     1.1 10659.0     4.2 10677.0
GR  20.7 10718.0    27.5 10739.0    32.5 10748.0    38.7 10758.0    43.8 10768.0
GR  46.1 10774.0    51.3 10779.0    54.6 10827.0    51.3 10845.0    51.3 10887.0
GR  56.3 13887.0    76.3 13889.0
X1 49.80     38.   10205   10751     528     528     528
X3    10
GR  81.6  6998.0    61.6  7000.0    56.6 10000.0    54.3 10049.0    50.6 10085.0
GR  50.5 10100.0    46.0 10150.0    42.2 10205.0    37.5 10219.0    34.3 10224.0
GR  30.3 10240.0    22.1 10260.0    18.3 10280.0     5.9 10340.0     4.0 10361.0
GR   1.0 10380.0     1.1 10401.0    -1.0 10439.0     -.9 10460.0    -3.0 10480.0
GR  -2.9 10501.0    -4.1 10521.0    -3.9 10540.0    -3.0 10562.0    -5.1 10579.0
GR  -3.9 10600.0     6.1 10640.0     9.9 10660.0    16.8 10681.0    31.9 10700.0
GR  52.6 10751.0    53.3 10760.0    58.7 10781.0    59.0 10796.0    58.6 10801.0
GR  60.3 10830.0    65.3 13830.0    85.3 13832.0
X1 49.90     34.   10125   10790     528     528     528
X3    10
GR  78.0  6999.0    58.0  7001.0    53.0 10001.0    49.5 10050.0    49.4 10100.0
GR  49.9 10105.0    49.4 10125.0    47.0 10151.0    46.0 10200.0    44.3 10211.0
GR  36.4 10236.0    34.6 10239.0    31.1 10241.0    14.9 10300.0     8.1 10320.0
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GR   3.1 10339.0     1.0 10359.0     -.2 10380.0     0.0 10399.0    -8.0 10478.0
GR  -9.1 10500.0   -11.0 10519.0    -2.8 10599.0     0.0 10618.0     4.1 10639.0
GR  10.1 10660.0    37.1 10679.0    47.2 10715.0    58.7 10790.0    58.7 10800.0
GR  58.7 10851.0    58.7 10900.0    63.7 13900.0    83.7 13902.0
X1 50.10     35.   10124   10829    1056    1056    1056
X3    10
GR  80.5  6998.0    60.5  7000.0    55.5 10000.0    56.2 10029.0    55.3 10050.0
GR  52.4 10075.0    51.5 10100.0    51.4 10124.0    47.7 10193.0    44.0 10235.0
GR  30.5 10250.0    22.8 10272.0     8.9 10312.0     2.3 10352.0    -1.2 10371.0
GR  -1.4 10394.0    -5.3 10472.0    -6.9 10491.0   -11.4 10513.0   -11.2 10532.0
GR  -6.3 10554.0    -2.2 10591.0     1.0 10612.0     2.9 10631.0    11.2 10650.0
GR  18.3 10672.0    28.3 10691.0    35.0 10698.0    44.7 10715.0    44.6 10750.0
GR  52.0 10800.0    60.1 10829.0    61.2 10849.0    66.2 13849.0    86.2 13851.0
X1 50.20     34.   10082   10858     528     528     528
X3    10
GR  81.4  6978.0    61.4  6980.0    56.4  9980.0    55.5 10000.0    55.9 10010.0
GR  55.1 10045.0    53.7 10082.0    48.0 10100.0    44.0 10131.0    34.4 10156.0
GR  34.4 10201.0    33.0 10220.0    16.0 10250.0    -4.0 10300.0    -6.0 10319.0
GR  -5.9 10439.0    -3.9 10478.0    -1.9 10498.0    -1.9 10517.0     4.1 10557.0
GR   9.0 10579.0    10.2 10598.0    16.3 10619.0    25.4 10638.0    34.5 10658.0
GR  48.3 10674.0    44.2 10697.0    51.6 10797.0    53.2 10831.0    57.9 10858.0
GR  59.3 10897.0    60.1 10971.0    65.1 13971.0    85.1 13973.0
X1 50.30     27.   10125   10651     528     528     528
X3    10
GR  82.3  6998.0    62.3  7000.0    57.3 10000.0    57.5 10099.0    57.3 10125.0
GR  48.9 10135.0    39.8 10150.0    33.7 10160.0    24.8 10180.0    12.4 10201.0
GR   4.8 10220.0     2.9 10239.0     2.9 10260.0     -.1 10280.0    -4.3 10299.0
GR  -6.3 10320.0    -7.1 10340.0      .6 10498.0     4.7 10519.0    24.8 10559.0
GR  40.6 10586.0    46.6 10599.0    45.7 10616.0    50.6 10651.0    50.6 10750.0
GR  55.6 13750.0    75.6 13752.0
X1 50.50     29.   10100   10596    1056    1056    1056
X3    10
GR  80.6  6997.0    60.6  6999.0    55.6  9999.0    55.7 10050.0    55.6 10100.0
GR  36.4 10146.0    27.8 10160.0    22.9 10178.0    13.8 10199.0    10.8 10220.0
GR  -6.1 10238.0    -8.1 10259.0   -21.3 10298.0   -19.0 10339.0   -15.1 10358.0
GR -13.3 10380.0    -7.2 10418.0    -5.1 10459.0    -1.9 10479.0     5.9 10519.0
GR  29.9 10559.0    34.3 10569.0    41.4 10580.0    48.4 10596.0    48.4 10624.0
GR  48.4 10649.0    48.4 10699.0    53.4 13699.0    73.4 13701.0
X1 50.70     41.   10129   10800    1056    1056    1056
X3    10
GR  78.6  7023.0    58.6  7025.0    53.6 10025.0    53.6 10049.0    53.9 10080.0
GR  53.6 10129.0    49.8 10140.0    47.2 10154.0    42.1 10171.0    36.5 10179.0
GR  34.6 10181.0    32.8 10189.0    19.9 10211.0    17.0 10230.0     3.0 10248.0
GR  -9.9 10269.0   -17.1 10289.0   -18.1 10310.0   -15.1 10329.0   -15.2 10348.0
GR  -9.0 10369.0    -7.1 10388.0    12.9 10490.0    15.0 10509.0    19.8 10610.0
GR  21.0 10629.0    22.9 10650.0    26.0 10670.0    30.8 10690.0    34.3 10701.0
GR  38.4 10711.0    44.8 10735.0    45.3 10751.0    44.7 10767.0    50.3 10800.0
GR  52.4 10836.0    52.5 10851.0    50.4 10892.0    55.4 10948.0    60.4 13948.0
GR  80.4 13950.0
X1 50.90     33.   10120   10799    1056    1056    1056
X3    10
GR  77.8  7048.0    57.8  7050.0    52.8 10050.0    52.8 10120.0    49.0 10150.0
GR  48.8 10179.0    45.2 10192.0    42.1 10214.0    36.9 10224.0    27.1 10248.0
GR  17.4 10269.0     5.0 10288.0     4.1 10309.0      .2 10350.0    -3.9 10370.0
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GR  -2.9 10389.0    -2.9 10409.0     -.9 10449.0     1.2 10469.0     3.1 10508.0
GR   5.2 10529.0     8.2 10590.0     8.1 10609.0     9.1 10628.0     9.0 10650.0
GR  10.2 10669.0    15.9 10688.0    41.7 10739.0    53.2 10799.0    55.5 10825.0
GR  55.3 10900.0    60.3 13900.0    80.3 13902.0
X1 51.10     29.   10185   10749    1056    1056    1056
X3    10
GR  72.2  7072.0    52.2  7074.0    47.2 10074.0    47.2 10100.0    47.6 10149.0
GR  47.2 10185.0    45.1 10200.0    38.9 10220.0    31.0 10231.0    28.1 10249.0
GR  12.0 10331.0     7.0 10350.0     5.0 10370.0     2.0 10429.0     2.1 10450.0
GR   -.9 10511.0     -.9 10610.0    -2.1 10630.0     4.6 10648.0    10.9 10669.0
GR  15.7 10690.0    23.0 10705.0    34.6 10710.0    39.0 10716.0    49.2 10740.0
GR  55.7 10749.0    55.7 10848.0    60.7 13848.0    80.7 13850.0
X1 51.30     32.   10190   10777    1056    1056    1056
X3    10
GR  74.8  6988.0    54.8  6990.0    49.8  9990.0    50.0  9999.0    49.2 10050.0
GR  49.5 10090.0    47.4 10140.0    47.4 10190.0    43.4 10230.0    39.9 10247.0
GR  37.7 10255.0    30.9 10270.0    28.9 10290.0     8.0 10390.0     6.9 10411.0
GR   5.1 10430.0     4.9 10450.0     3.0 10490.0     1.1 10509.0     -.9 10547.0
GR  -1.0 10570.0    -5.0 10610.0    -4.1 10629.0    -2.1 10650.0    12.7 10709.0
GR  52.7 10770.0    58.7 10777.0    58.7 10798.0    60.4 10828.0    59.3 10850.0
GR  64.3 13850.0    84.3 13852.0
X1 51.40     40. 10114.6 10729.0     528     528     528
X3    10
GR  76.0  6997.7    56.0  6999.7    51.0  9999.7    49.3 10049.7    49.3 10114.6
GR  44.9 10134.3    42.7 10150.1    43.4 10167.5    37.1 10181.1    29.7 10190.3
GR  28.2 10209.1    21.1 10230.7    17.1 10250.3    12.2 10270.0     9.2 10289.7
GR   9.1 10310.0     8.0 10330.8     8.0 10349.7     7.0 10370.4     7.2 10390.3
GR   3.9 10449.6     2.1 10468.9      .1 10510.5    -2.9 10529.2   -10.7 10549.8
GR -10.9 10569.6    -9.9 10589.4    -6.1 10609.9    -3.9 10629.8    15.0 10670.5
GR  27.2 10688.8    42.7 10709.1    51.6 10724.3    59.6 10728.5    59.6 10729.0
GR  59.6 10744.9    59.6 10748.3    59.6 10848.4    64.6 13848.4    84.6 13850.4
X1 51.60     35.   10159   10677    1056    1056    1056
X3    10
GR  73.6  7048.0    53.6  7050.0    48.6 10050.0    48.7 10100.0    48.6 10159.0
GR  43.9 10171.0    39.5 10180.0    34.5 10182.0    28.0 10190.0    15.0 10209.0
GR  10.0 10229.0     8.1 10250.0     4.2 10270.0     2.9 10290.0     1.2 10310.0
GR   -.2 10330.0    -4.1 10409.0    -4.1 10430.0     1.0 10450.0     2.1 10470.0
GR   4.0 10490.0     4.0 10511.0     6.1 10550.0    17.4 10570.0    24.0 10589.0
GR  26.0 10609.0    41.0 10650.0    46.0 10659.0    53.3 10677.0    56.5 10698.0
GR  58.2 10737.0    58.4 10801.0    56.6 10826.0    61.6 13826.0    81.6 13828.0
X1 51.80     39.   10165   10747    1056    1056    1056
X3    10
GR  80.0  7045.0    60.0  7047.0    55.0 10047.0    55.0 10098.0    55.0 10117.0
GR  55.0 10147.0    55.0 10165.0    50.2 10185.0    49.0 10197.0    50.2 10214.0
GR  46.4 10248.0    39.0 10269.0    34.5 10276.0    30.0 10279.0    26.1 10298.0
GR  11.8 10319.0     2.9 10339.0   -10.2 10380.0   -13.0 10399.0   -17.2 10420.0
GR -20.9 10459.0   -20.1 10479.0   -11.7 10500.0    -7.8 10520.0    -5.9 10539.0
GR  -1.0 10559.0     1.0 10580.0     7.0 10620.0     6.9 10640.0    15.1 10660.0
GR  25.6 10679.0    34.4 10701.0    40.1 10718.0    46.9 10731.0    53.1 10747.0
GR  54.2 10787.0    53.9 10848.0    58.9 13848.0    78.9 13850.0
X1 51.90     37.   10154   10657     528     528     528
X3    10
GR  73.7  7116.0    53.7  7118.0    48.7 10118.0    48.7 10154.0    41.7 10170.0
GR  38.3 10176.0    34.9 10177.0    16.3 10220.0     8.1 10240.0     2.2 10260.0
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GR   -8.9 10280.0    -12.7 10300.0    -18.9 10318.0    -20.9 10339.0    -22.0 10360.0
GR -22.1 10380.0    -20.9 10400.0    -17.9 10420.0     -9.9 10440.0     -6.1 10460.0
GR    -.9 10478.0      6.0 10499.0     14.9 10539.0     22.1 10558.0     28.0 10580.0
GR   34.6 10582.0     39.0 10588.0     44.1 10604.0     44.5 10618.0     51.4 10641.0
GR   54.2 10657.0     56.9 10699.0     56.2 10709.0     54.2 10725.0     58.2 10749.0
GR   63.2 13749.0     83.2 13751.0
X1 52.00      35.    10078    10785      528      528      528
X3    10
GR   75.2  6976.0     55.2  6978.0     50.2  9978.0     50.2 10028.0     50.2 10078.0
GR   45.6 10108.0     43.0 10159.0     36.4 10170.0     29.8 10179.0     17.8 10218.0
GR    2.0 10239.0      -.1 10258.0     -1.0 10279.0     -2.1 10299.0     -3.0 10319.0
GR   -4.9 10339.0     -9.9 10358.0    -10.2 10418.0     -5.2 10439.0     -5.3 10459.0
GR   -1.2 10498.0      6.7 10518.0     18.9 10538.0     28.9 10558.0     28.8 10577.0
GR   40.3 10599.0     43.1 10609.0     46.8 10648.0     50.0 10697.0     54.2 10747.0
GR   59.3 10774.0     60.2 10785.0     60.2 10898.0     65.2 13898.0     85.2 13900.0
X1 52.20      35.    10097    10744     1056     1056     1056
X3    10
GR   78.3  7047.0     58.3  7049.0     53.3 10049.0     52.2 10097.0     50.6 10115.0
GR   48.4 10149.0     42.6 10160.0     35.6 10183.0     34.7 10190.0     12.0 10250.0
GR    7.0 10270.0      3.4 10290.0     -1.1 10330.0      -.2 10350.0     -4.1 10370.0
GR   -6.1 10390.0     -6.9 10409.0     -9.9 10470.0     -7.1 10492.0     -7.0 10510.0
GR   -4.9 10531.0     10.0 10570.0     16.9 10590.0     27.6 10611.0     34.2 10619.0
GR   36.9 10630.0     37.3 10649.0     41.4 10700.0     43.4 10735.0     49.2 10743.0
GR   49.2 10744.0     50.3 10799.0     49.6 10848.0     54.6 13848.0     74.6 13850.0
X1 52.40      37. 10089.1 10785.6     1056     1056     1056
X3    10
GR   78.6  6987.9     58.6  6989.9     53.6  9989.9     53.6 10039.5     53.6 10089.1
GR   46.8 10128.8     44.9 10149.7     42.8 10198.4     38.9 10205.4     34.6 10216.3
GR   30.1 10219.9     25.0 10240.8     17.9 10260.2     10.0 10280.7      5.2 10300.1
GR    -.8 10340.4     -3.8 10401.4     -5.9 10418.3     -5.9 10441.2     -6.9 10460.0
GR -12.8 10520.6    -10.1 10540.4      7.8 10599.2     22.3 10618.4     27.9 10639.1
GR   34.3 10643.5     42.0 10659.3     44.1 10664.2     44.8 10698.9     48.8 10712.8
GR   57.5 10785.6     58.2 10812.9     58.4 10855.1     58.3 10855.2     58.4 10855.3
GR   63.4 13855.3     83.4 13857.3
X1 52.50      40.    10129    10800      528      528      528
X3    10
GR   76.7  7028.0     56.7  7030.0     51.7 10030.0     52.2 10048.0     49.3 10079.0
GR   49.3 10098.0     47.2 10129.0     45.5 10143.0     42.2 10153.0     34.2 10164.0
GR   26.0 10179.0     17.1 10200.0     11.1 10220.0      2.2 10240.0     -1.0 10260.0
GR   -1.9 10280.0     -1.8 10320.0     -4.8 10380.0     -7.8 10401.0     -7.9 10420.0
GR   -4.8 10440.0     -2.9 10460.0     -2.8 10480.0      0.0 10501.0      5.0 10520.0
GR   13.1 10539.0     15.0 10560.0     28.3 10579.0     34.2 10595.0     37.5 10598.0
GR   38.6 10611.0     42.4 10638.0     45.8 10698.0     48.4 10738.0     52.3 10775.0
GR   58.2 10800.0     58.8 10849.0     59.0 10899.0     64.0 13899.0     84.0 13901.0
X1 52.70      39.    10099    10748     1056     1056     1056
X3    10
GR   84.5  6998.0     64.5  7000.0     59.5 10000.0     60.2 10024.0     58.0 10056.0
GR   54.4 10099.0     49.3 10149.0     45.1 10193.0     41.6 10214.0     35.0 10229.0
GR   34.4 10234.0     30.0 10249.0       .2 10329.0     -2.0 10349.0     -1.9 10389.0
GR   -6.0 10468.0     -7.8 10489.0     -6.0 10509.0     -5.0 10529.0     -1.2 10548.0
GR    3.1 10568.0      6.2 10588.0     10.2 10609.0     15.0 10628.0     34.0 10667.0
GR   44.4 10684.0     45.0 10689.0     45.2 10701.0     48.4 10729.0     49.2 10748.0
GR   49.2 10778.0     53.5 10820.0     56.6 10830.0     58.3 10841.0     58.4 10888.0
GR   58.8 10909.0     58.6 10948.0     63.6 13948.0     83.6 13950.0
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X1 52.90     38.   10155   10730    1056    1056    1056
X3    10
GR  82.6  7049.0    62.6  7051.0    57.6 10051.0    57.8 10121.0    57.6 10155.0
GR  51.5 10181.0    48.1 10210.0    44.6 10226.0    41.4 10235.0    34.3 10243.0
GR  30.2 10250.0    21.9 10271.0    13.8 10291.0     8.2 10310.0    -3.1 10330.0
GR  -7.9 10350.0    -6.9 10370.0    -7.9 10390.0    -7.9 10453.0    -6.0 10491.0
GR  -2.8 10511.0    -1.8 10530.0     0.0 10551.0     3.1 10570.0     7.0 10589.0
GR   8.2 10610.0    10.1 10630.0    14.2 10650.0    27.2 10671.0    38.3 10692.0
GR  40.7 10701.0    44.1 10715.0    51.7 10730.0    51.7 10750.0    51.7 10801.0
GR  51.7 10851.0    56.7 13851.0    76.7 13853.0
X1 53.10     31.   10224   10690    1056    1056    1056
X3    10
GR  81.3  7122.0    61.3  7124.0    56.3 10124.0    56.3 10149.0    56.3 10194.0
GR  56.3 10214.0    56.3 10224.0    46.5 10244.0    42.6 10269.0    35.5 10284.0
GR  21.8 10300.0    14.7 10320.0     1.8 10340.0    -7.1 10381.0    -9.0 10417.0
GR  -9.2 10440.0   -11.1 10481.0   -11.2 10500.0   -10.0 10521.0    -8.1 10539.0
GR  -3.8 10562.0     2.0 10600.0     9.9 10621.0    30.0 10660.0    38.9 10670.0
GR  49.8 10690.0    50.2 10700.0    50.1 10750.0    50.5 10800.0    55.5 13800.0
GR  75.5 13802.0
X1 53.30     33.   10179   10683    1056    1056    1056
X3    10
GR  79.7  7077.0    59.7  7079.0    54.7 10079.0    54.7 10179.0    43.3 10219.0
GR  34.3 10231.0    14.9 10269.0    11.0 10290.0     8.8 10309.0     5.7 10330.0
GR -11.2 10349.0   -23.4 10370.0   -28.2 10390.0   -27.3 10409.0   -23.1 10430.0
GR -13.1 10450.0    -8.2 10469.0    -7.3 10489.0    -1.0 10510.0     3.2 10530.0
GR   5.8 10549.0     9.8 10569.0    15.9 10589.0    34.1 10623.0    34.4 10625.0
GR  41.9 10641.0    41.8 10648.0    43.0 10659.0    51.7 10683.0    51.7 10746.0
GR  51.7 10797.0    56.7 13797.0    76.7 13799.0
X1 53.50     39.   10150   10764    1056    1056    1056
X3    10
GR  77.0  7098.0    57.0  7100.0    52.0 10100.0    52.1 10119.0    52.0 10150.0
GR  48.9 10165.0    48.7 10180.0    44.6 10200.0    34.3 10212.0    24.0 10241.0
GR  21.1 10260.0    14.9 10280.0    12.0 10300.0     7.8 10319.0     1.0 10340.0
GR  -1.3 10360.0    -4.1 10379.0    -8.4 10399.0   -11.0 10418.0   -10.2 10439.0
GR  -6.0 10479.0    -6.1 10498.0    -4.0 10540.0    -2.0 10559.0     2.0 10578.0
GR   8.0 10618.0    17.2 10639.0    28.9 10659.0    34.3 10676.0    36.4 10679.0
GR  38.8 10685.0    45.4 10699.0    49.2 10717.0    51.0 10748.0    56.0 10764.0
GR  56.0 10799.0    56.0 10868.0    61.0 13868.0    81.0 13870.0
X1 53.70     31.   10185   10748    1056    1056    1056
X3    10
GR  79.4  7072.0    59.4  7074.0    54.4 10074.0    54.4 10185.0    51.9 10200.0
GR  41.0 10207.0    39.1 10226.0    21.1 10249.0    12.1 10269.0      .1 10289.0
GR -12.0 10351.0   -23.9 10370.0   -38.0 10410.0   -23.9 10430.0   -16.0 10449.0
GR  -9.9 10470.0      .1 10509.0     3.1 10530.0     4.1 10550.0    14.4 10572.0
GR  18.2 10590.0    25.1 10610.0    34.4 10628.0    42.6 10649.0    43.6 10668.0
GR  49.7 10699.0    53.7 10748.0    53.7 10799.0    53.7 10849.0    58.7 13849.0
GR  78.7 13851.0
X1 53.80     38.   10125   10673     528     528     528
X3    10
GR  76.2  7022.0    56.2  7024.0    51.2 10024.0    50.1 10059.0    50.7 10075.0
GR  47.1 10125.0    25.8 10170.0    22.0 10190.0     9.9 10209.0      .1 10250.0
GR   -.9 10271.0    -6.9 10291.0    -7.7 10310.0   -11.0 10329.0    -9.9 10349.0
GR  -5.9 10370.0    -1.8 10410.0     -.8 10431.0     4.1 10450.0     2.1 10472.0
GR   4.2 10489.0     3.2 10510.0     7.2 10551.0    12.0 10570.0    21.5 10591.0
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GR  26.3 10611.0    34.2 10629.0    34.6 10633.0    38.5 10640.0    41.4 10651.0
GR  52.4 10673.0    52.4 10701.0    53.0 10736.0    56.5 10751.0    56.2 10766.0
GR  57.1 10801.0    62.1 13801.0    82.1 13803.0
X1 54.00     33.   10225   10751    1056    1056    1056
X3    10
GR  73.5  7097.0    53.5  7099.0    48.5 10099.0    48.5 10199.0    48.5 10225.0
GR  40.9 10245.0    34.4 10246.0    27.0 10248.0    20.2 10270.0    12.7 10290.0
GR  10.2 10310.0     9.0 10330.0     4.0 10349.0    -2.1 10369.0    -4.0 10390.0
GR  -7.1 10410.0    -5.9 10430.0    -6.0 10470.0    -7.0 10490.0    -7.0 10551.0
GR  -6.0 10570.0    -4.0 10589.0      .1 10610.0     9.9 10629.0    22.1 10648.0
GR  37.9 10670.0    47.2 10690.0    48.3 10700.0    49.4 10720.0    53.7 10751.0
GR  55.5 10800.0    60.5 13800.0    80.5 13802.0
X1 54.20     24.   10153   10698    1056    1056    1056
X3    10
GR  75.4  7096.0    55.4  7098.0    50.4 10098.0    50.4 10128.0    50.4 10153.0
GR  43.0 10177.0    36.3 10199.0    33.0 10208.0    14.8 10249.0     9.0 10270.0
GR   3.0 10289.0    -6.0 10330.0    -5.9 10430.0    -5.2 10511.0    12.1 10591.0
GR  19.9 10611.0    34.5 10628.0    46.7 10649.0    48.6 10674.0    53.3 10698.0
GR  56.5 10740.0    57.6 10797.0    62.6 13797.0    82.6 13799.0
X1 54.40     30.   10144   10748    1056    1056    1056
X3    10
GR  76.3  7046.0    56.3  7048.0    51.3 10048.0    51.3 10099.0    51.3 10144.0
GR  46.6 10168.0    37.9 10191.0    24.2 10219.0    12.1 10238.0    -2.0 10278.0
GR  -2.0 10321.0    -2.8 10360.0    -6.8 10400.0    -8.7 10439.0    -4.9 10459.0
GR    .1 10478.0     1.1 10499.0     7.0 10539.0     5.1 10559.0    11.0 10578.0
GR  15.0 10598.0    24.2 10619.0    49.6 10658.0    53.7 10698.0    55.1 10726.0
GR  60.3 10748.0    61.1 10777.0    60.8 10847.0    65.8 13847.0    85.8 13849.0
X1 54.60     28.   10147   10758    1056    1056    1056
X3    10
GR  73.7  6997.0    53.7  6999.0    48.7  9999.0    48.5 10147.0    46.2 10172.0
GR  38.8 10199.0    34.2 10250.0     6.0 10310.0     4.2 10329.0    -2.9 10369.0
GR  -2.8 10389.0    -4.5 10408.0    -3.8 10430.0    -4.6 10469.0    -7.0 10516.0
GR   3.0 10589.0     8.1 10628.0    13.4 10650.0    29.6 10690.0    34.6 10694.0
GR  42.8 10709.0    48.9 10717.0    53.5 10749.0    53.6 10758.0    53.6 10797.0
GR  53.6 10848.0    58.6 13848.0    78.6 13850.0
X1 54.70     32.   10050   10744     528     528     528
X3    10
GR  81.6  7048.0    61.6  7050.0    56.6 10050.0    59.8 10080.0    47.3 10127.0
GR  34.3 10140.0    26.9 10159.0    23.9 10179.0    13.7 10201.0    10.0 10220.0
GR   1.1 10254.0    -5.9 10291.0   -11.7 10320.0    -6.9 10360.0    -3.9 10420.0
GR  -1.7 10440.0    -1.8 10461.0     2.1 10520.0     9.2 10560.0    18.2 10581.0
GR  22.8 10598.0    30.8 10619.0    32.1 10637.0    32.1 10659.0    38.9 10681.0
GR  44.6 10698.0    49.8 10744.0    49.8 10780.0    49.8 10800.0    49.8 10848.0
GR  54.8 13848.0    74.8 13850.0
X1 54.90     30.   10086   10716    1056    1056    1056
X3    10
GR  85.2  7024.0    65.2  7026.0    60.2 10026.0    60.2 10049.0    60.2 10086.0
GR  56.6 10128.0    38.2 10166.0    20.1 10188.0    10.4 10210.0    -5.2 10247.0
GR -10.2 10269.0   -25.5 10291.0   -19.8 10312.0   -12.3 10330.0    -6.0 10369.0
GR  -3.1 10389.0     -.1 10451.0    14.9 10530.0    23.0 10571.0    28.6 10610.0
GR  38.1 10637.0    44.1 10698.0    46.9 10716.0    46.9 10749.0    46.9 10770.0
GR  49.8 10789.0    50.3 10852.0    51.2 10899.0    56.2 13899.0    76.2 13901.0
X1 55.10     26.   10100   10748    1056    1056    1056
X3    10
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GR  81.8  6998.0    61.8  7000.0    56.8 10000.0    56.8 10100.0    49.4 10135.0
GR  32.2 10165.0     7.3 10230.0     3.9 10252.0    -1.0 10271.0    -4.1 10290.0
GR  -3.2 10310.0    -7.0 10331.0    -6.9 10371.0   -25.1 10391.0    -5.2 10411.0
GR  -2.9 10431.0     6.8 10568.0    38.6 10639.0    41.1 10650.0    43.8 10698.0
GR  50.7 10748.0    53.4 10778.0    56.6 10848.0    56.4 10862.0    61.4 13862.0
GR  81.4 13864.0
X1 55.30     29.   10068   10721    1056    1056    1056
X3    10
GR  81.3  6997.0    61.3  6999.0    56.3  9999.0    56.2 10048.0    56.2 10067.0
GR  56.2 10068.0    53.4 10098.0    48.1 10148.0    34.4 10198.0    19.7 10225.0
GR   8.2 10267.0     2.8 10288.0     0.0 10329.0    -8.9 10409.0    -6.1 10446.0
GR  -4.2 10487.0    -1.8 10510.0      .2 10550.0     4.1 10569.0    11.9 10584.0
GR  32.1 10612.0    37.6 10631.0    43.8 10641.0    47.3 10651.0    56.1 10721.0
GR  56.4 10750.0    56.1 10850.0    61.1 13850.0    81.1 13852.0
X1 55.50     29.   10124   10699    1056    1056    1056
X3    10
GR  78.3  6999.0    58.3  7001.0    53.3 10001.0    53.3 10099.0    53.3 10119.0
GR  53.3 10124.0    48.3 10149.0    45.1 10192.0    28.7 10219.0    16.8 10259.0
GR   5.9 10280.0     2.8 10301.0      .9 10320.0    -2.0 10379.0    -1.9 10401.0
GR   -.9 10421.0      .4 10438.0      .7 10500.0     3.4 10521.0     5.2 10560.0
GR  14.4 10603.0    20.4 10623.0    33.5 10654.0    61.8 10699.0    61.8 10768.0
GR  61.8 10778.0    61.8 10799.0    66.8 13799.0    86.8 13801.0
X1 55.60     29.   10119   10685     528     528     528
X3    10
GR  77.1  7017.0    57.1  7019.0    52.1 10019.0    52.4 10098.0    52.1 10119.0
GR  48.1 10149.0    47.5 10168.0    38.2 10190.0    26.8 10199.0    21.9 10220.0
GR  12.2 10239.0     6.2 10260.0     2.3 10280.0      .2 10320.0    -3.8 10379.0
GR  -3.8 10398.0     -.4 10457.0     5.5 10521.0     8.6 10539.0    22.9 10598.0
GR  29.9 10614.0    34.2 10622.0    40.3 10626.0    61.1 10685.0    61.6 10701.0
GR  61.1 10714.0    61.1 10748.0    66.1 13748.0    86.1 13750.0
X1 55.80     33.   10269   10813    1056    1056    1056
X3    10
GR  79.3  6997.0    59.3  6999.0    54.3  9999.0    54.7 10050.0    54.4 10087.0
GR  51.5 10149.0    53.7 10173.0    48.7 10199.0    48.7 10269.0    44.6 10273.0
GR  40.3 10298.0    38.7 10316.0    19.9 10349.0     5.2 10391.0     2.1 10410.0
GR  -5.1 10429.0    -6.8 10448.0   -12.0 10470.0   -14.9 10490.0   -12.9 10571.0
GR   1.1 10610.0     3.1 10630.0     9.1 10671.0    21.0 10708.0    27.0 10729.0
GR  34.3 10731.0    40.9 10748.0    50.4 10783.0    52.4 10793.0    55.3 10805.0
GR  59.5 10813.0    64.5 13813.0    84.5 13815.0
X1 55.90     35.   10180   10787     528     528     528
X3    10
GR  78.6  7097.0    58.6  7099.0    53.6 10099.0    51.6 10150.0    49.7 10180.0
GR  47.1 10212.0    38.5 10223.0    34.4 10224.0    27.1 10239.0    19.0 10260.0
GR   9.8 10281.0     5.1 10299.0     2.0 10321.0    -2.0 10340.0   -11.0 10400.0
GR –10.9 10420.0    -8.9 10460.0    -4.0 10499.0    -1.0 10519.0     1.0 10542.0
GR   3.9 10560.0    10.2 10601.0    15.0 10620.0    19.0 10640.0    29.0 10659.0
GR  34.1 10666.0    40.3 10679.0    42.2 10698.0    47.5 10716.0    52.8 10764.0
GR  59.5 10787.0    60.3 10800.0    59.9 10825.0    64.9 13825.0    84.9 13827.0
X1 56.10     34. 10098.8 10774.5    1056    1056    1056
X3    10
GR  78.1  7046.3    58.1  7048.3    53.1 10048.3    53.1 10098.8    49.3 10128.8
GR  38.4 10150.4    34.5 10151.1    28.7 10165.9    20.3 10189.7    15.2 10210.4
GR   8.8 10252.0     5.2 10309.8     2.0 10371.0     2.1 10389.8     1.0 10410.7
GR   1.2 10430.1    -1.0 10470.4     -.9 10491.2    -3.0 10529.6    -2.9 10549.9
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GR  -3.9 10569.8    -2.0 10591.0     1.1 10610.7     7.0 10629.7    34.3 10678.5
GR  36.7 10689.3    44.8 10719.5    50.8 10748.4    62.5 10774.5    62.5 10799.3
GR  62.5 10848.5    62.5 10898.1    67.5 13898.1    87.5 13900.1
X1 56.30     34.   10119   10766    1056    1056    1056
X3    10
GR  76.4  7017.0    56.4  7019.0    51.4 10019.0    51.7 10048.0    50.9 10084.0
GR  48.6 10119.0    47.4 10128.0    37.5 10150.0    30.2 10169.0     9.2 10211.0
GR   5.1 10229.0     5.1 10250.0     2.1 10310.0     2.1 10330.0     1.1 10350.0
GR    .9 10409.0      .1 10428.0     -.8 10490.0     -.9 10529.0    -2.0 10549.0
GR   1.2 10569.0     6.1 10589.0    20.1 10611.0    26.0 10629.0    34.2 10641.0
GR  36.3 10649.0    39.2 10669.0    41.7 10697.0    50.6 10722.0    56.1 10748.0
GR  62.8 10766.0    62.8 10874.0    67.8 13874.0    87.8 13876.0
X1 56.50     34.   10098   10722    1056    1056    1056
X3    10
GR  81.3  6996.0    61.3  6998.0    56.3  9998.0    51.5 10048.0    52.0 10088.0
GR  51.5 10098.0    49.0 10118.0    41.3 10138.0    27.9 10149.0    21.0 10168.0
GR   9.2 10189.0     3.0 10230.0     1.0 10250.0    -1.0 10309.0      .2 10329.0
GR  -1.0 10350.0    -1.0 10450.0      .2 10469.0    -2.0 10510.0     0.0 10530.0
GR   8.0 10549.0    18.0 10570.0    25.0 10590.0    34.3 10616.0    36.7 10636.0
GR  40.6 10649.0    41.2 10663.0    47.5 10675.0    52.7 10703.0    61.7 10722.0
GR  62.9 10749.0    62.6 10823.0    67.6 13823.0    87.6 13825.0
X1 56.80     36.   10104   10716    1584    1584    1584
X3    10
GR  78.6  6997.0    58.6  6999.0    53.6  9999.0    53.6 10048.0    54.5 10073.0
GR  53.6 10104.0    45.7 10148.0    34.3 10161.0    29.9 10169.0    19.1 10209.0
GR  16.1 10230.0    13.9 10249.0    10.9 10269.0     9.1 10289.0     6.2 10309.0
GR   2.0 10330.0     0.0 10349.0     0.0 10369.0    -1.0 10390.0     -.9 10509.0
GR   7.1 10530.0    13.0 10569.0    15.0 10589.0    18.8 10609.0    25.1 10630.0
GR  34.2 10639.0    40.6 10649.0    51.6 10674.0    54.5 10689.0    59.3 10700.0
GR  62.7 10716.0    63.3 10749.0    62.7 10800.0    62.7 10849.0    67.7 13849.0
GR  87.7 13851.0
X1 56.90     38. 10129.3 10726.5     528     528     528
X3    10
GR  76.3  7026.6    56.3  7028.6    51.3 10028.6    51.3 10049.0    52.4 10098.5
GR  51.3 10129.3    46.6 10148.2    36.6 10169.2    31.2 10169.7    26.2 10190.7
GR  17.4 10264.2    14.1 10290.0    12.0 10311.4     7.8 10330.8     2.9 10350.7
GR    .1 10370.1    -1.2 10391.0     -.9 10450.5    -2.0 10470.4      .9 10510.5
GR   7.0 10529.3    11.0 10569.9    14.0 10590.2    15.9 10609.5    21.4 10629.8
GR  25.8 10649.6    34.3 10651.0    42.6 10657.3    47.5 10668.6    51.0 10682.5
GR  52.7 10698.3    62.4 10726.5    62.4 10749.8    62.4 10769.7    62.4 10799.4
GR  62.4 10848.5    67.4 13848.5    87.4 13850.5
X1 57.10     35.   10173   10797    1056    1056    1056
X3    10
GR  73.2  7046.0    53.2  7048.0    48.2 10048.0    48.5 10123.0    46.3 10148.0
GR  46.3 10173.0    41.8 10189.0    34.5 10197.0    30.1 10208.0    24.1 10230.0
GR  21.0 10250.0    15.1 10310.0    12.0 10330.0     4.0 10369.0     -.1 10449.0
GR   -.1 10490.0     -.9 10510.0    -1.0 10529.0     2.0 10555.0     7.0 10569.0
GR  10.0 10590.0    14.0 10610.0    20.0 10650.0    24.0 10691.0    25.8 10708.0
GR  34.2 10718.0    42.2 10731.0    49.5 10748.0    54.3 10777.0    63.1 10797.0
GR  63.1 10807.0    63.1 10849.0    63.1 10899.0    68.1 13899.0    88.1 13901.0
X1 57.30     40. 10159.9 10750.6    1056    1056    1056
X3    10
GR  78.2  7046.9    58.2  7048.9    53.2 10048.9    47.7 10098.0    45.2 10159.9
GR  39.5 10182.7    34.4 10188.1    29.1 10190.1    25.0 10210.4    19.2 10229.7
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GR  15.8 10251.0    11.1 10270.3     7.1 10289.6     4.1 10309.9     3.1 10328.8
GR   1.3 10350.1      .1 10366.9      .1 10390.2    -2.1 10429.4    -2.1 10448.7
GR  -3.1 10469.6    -3.0 10488.9    -4.2 10510.2    -3.9 10529.1    -1.0 10550.9
GR   4.8 10569.3     7.9 10589.1    15.7 10629.8    18.9 10649.2    20.7 10669.5
GR  26.9 10689.9    33.9 10703.3    41.4 10713.8    47.6 10728.7    52.1 10733.2
GR  60.4 10750.6    61.2 10778.9    61.1 10848.9    66.1 13848.9    86.1 13850.9
X1 57.60     41.   10244   10829    1584    1584    1584
X3    10
GR  82.6  6947.0    62.6  6949.0    57.6  9949.0    58.3  9999.0    57.9 10038.0
GR  54.4 10049.0    49.5 10099.0    48.5 10149.0    45.7 10199.0    45.7 10244.0
GR  42.1 10250.0    35.4 10265.0    32.2 10269.0    28.1 10289.0    21.0 10310.0
GR  16.3 10328.0    12.0 10350.0     8.1 10391.0     7.8 10411.0     6.9 10430.0
GR   7.1 10450.0     5.9 10470.0     5.9 10491.0     3.9 10511.0     3.9 10550.0
GR   2.2 10590.0     4.1 10611.0     5.0 10631.0    10.8 10690.0    16.8 10729.0
GR  17.8 10750.0    23.2 10769.0    27.0 10788.0    37.2 10790.0    44.4 10798.0
GR  60.9 10829.0    61.8 10848.0    61.4 10898.0    61.0 10922.0    66.0 13922.0
GR  86.0 13924.0
X1 57.80     36.   10148   10832    1056    1056    1056
X3    10
GR  83.6  6894.0    63.6  6896.0    58.6  9896.0    55.0  9946.0    51.0 10047.0
GR  46.4 10096.0    46.4 10148.0    44.5 10157.0    30.8 10179.0    23.8 10199.0
GR  21.8 10218.0    19.7 10259.0    17.7 10278.0    14.4 10340.0    10.8 10378.0
GR   9.7 10398.0     7.7 10418.0     4.6 10457.0     3.6 10482.0     1.7 10518.0
GR   2.7 10540.0     4.7 10557.0     7.7 10619.0     9.6 10639.0    10.7 10657.0
GR  14.5 10699.0    17.7 10718.0    32.0 10757.0    37.1 10760.0    50.6 10798.0
GR  55.3 10832.0    55.3 10847.0    55.3 10882.0    55.3 10932.0    60.3 13932.0
GR  80.3 13934.0
X1 58.00     45.   10127   10852    1056    1056    1056
X3    10
GR 105.8  6890.0    85.8  6892.0    80.8  9892.0    66.2  9944.0    65.3  9985.0
GR  62.6  9994.0    56.9 10021.0    52.7 10034.0    53.1 10045.0    51.4 10096.0
GR  51.4 10127.0    47.6 10146.0    35.6 10175.0    33.1 10186.0    25.1 10207.0
GR  22.1 10226.0    25.2 10246.0    15.2 10287.0     9.4 10308.0    13.0 10348.0
GR   8.3 10368.0     5.3 10389.0     9.3 10409.0     7.3 10429.0     8.3 10449.0
GR  10.1 10469.0     9.3 10488.0    14.1 10509.0    14.3 10529.0    13.0 10550.0
GR  13.1 10570.0    14.1 10589.0    17.0 10611.0    17.1 10631.0    23.1 10670.0
GR  24.8 10690.0    27.8 10710.0    36.3 10747.0    38.7 10751.0    48.5 10803.0
GR  62.0 10852.0    64.9 10903.0    66.6 10954.0    71.6 13954.0    91.6 13956.0
X1 58.30     40.   10122   10798    1584    1584    1584
X3    10
GR  84.9  6920.0    64.9  6922.0    59.9  9922.0    59.4  9997.0    57.0 10009.0
GR  54.3 10029.0    49.5 10051.0    49.5 10097.0    49.5 10122.0    45.3 10157.0
GR  40.1 10168.0    35.2 10174.0    30.7 10177.0    26.9 10198.0    20.7 10218.0
GR  19.8 10241.0    18.8 10256.0    18.8 10298.0    15.7 10360.0    14.0 10378.0
GR   7.9 10499.0     5.7 10518.0     5.9 10539.0     5.0 10559.0    -1.2 10600.0
GR  -2.1 10619.0     -.2 10659.0     1.7 10678.0     9.8 10717.0    15.8 10738.0
GR  24.1 10756.0    36.1 10788.0    44.4 10798.0    44.4 10828.0    48.7 10835.0
GR  47.8 10848.0    48.0 10898.0    50.1 10948.0    55.1 13948.0    75.1 13950.0
X1 58.40     42.   10097   10739     528     528     528
X3    10
GR  87.2  6997.0    67.2  6999.0    62.2  9999.0    62.2 10048.0    62.2 10097.0
GR  54.9 10117.0    52.9 10125.0    46.9 10129.0    38.3 10140.0    35.8 10147.0
GR  33.0 10150.0    29.3 10169.0    21.8 10189.0    17.3 10209.0    12.9 10229.0
GR  14.2 10250.0     9.9 10269.0    10.1 10288.0    11.0 10309.0    11.2 10329.0
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GR  10.1 10350.0    10.0 10369.0     8.9 10390.0     9.3 10429.0     8.0 10450.0
GR   8.0 10469.0     4.8 10530.0     4.9 10549.0     3.9 10570.0     6.0 10609.0
GR   9.1 10630.0    10.1 10649.0    16.0 10669.0    28.7 10689.0    35.9 10704.0
GR  39.6 10709.0    51.0 10739.0    51.3 10749.0    51.0 10800.0    51.0 10848.0
GR  56.0 13848.0    76.0 13850.0
X1 58.50     29.   10130   10798     528     528     528
X3    10
GR  86.8  6998.0    66.8  7000.0    61.8 10000.0    61.8 10049.0    61.8 10130.0
GR  56.5 10139.0    51.4 10150.0    45.6 10185.0    43.5 10190.0    33.8 10197.0
GR  25.7 10209.0     4.9 10270.0     3.8 10289.0     3.8 10350.0     2.7 10469.0
GR   .9 10490.0      .9 10510.0     0.0 10529.0     1.1 10548.0     2.9 10569.0
GR   8.0 10609.0    10.1 10629.0    11.0 10648.0    36.0 10706.0    51.2 10747.0
GR  55.5 10798.0    56.1 10847.0    61.1 13847.0    81.1 13849.0
X1 58.70     35. 10148.6 10747.5    1056    1056    1056
X3    10
GR  86.3  7097.0    66.3  7099.0    61.3 10099.0    60.7 10148.6    45.9 10205.2
GR  35.8 10215.5    23.0 10240.0    17.1 10260.2    -1.2 10300.8    -5.9 10320.8
GR  -3.9 10340.3    -3.8 10360.6    -7.8 10380.0    -8.0 10399.8    -8.9 10419.3
GR  -3.8 10439.9    -2.9 10460.6      .2 10479.9     1.2 10501.1     4.3 10519.0
GR   3.1 10541.0     4.0 10559.2     4.0 10580.0     8.0 10619.0    12.9 10638.7
GR  19.9 10660.0    27.1 10680.3    32.3 10699.9    35.4 10708.4    37.8 10708.5
GR  53.4 10747.5    53.4 10798.3    53.4 10847.6    58.4 13847.6    78.4 13849.6
X1 59.00     38.   10205   10718    1584    1584    1584
X3    10
GR  83.5  7046.0    63.5  7048.0    58.5 10048.0    58.5 10148.0    58.7 10186.0
GR  58.5 10205.0    40.3 10228.0    37.6 10246.0    35.7 10249.0    33.9 10270.0
GR  19.7 10290.0    14.9 10310.0     1.8 10335.0    -7.0 10350.0   -13.1 10370.0
GR -23.7 10390.0   -29.9 10411.0   -37.8 10431.0   -38.9 10452.0   -33.8 10471.0
GR -24.1 10490.0   -20.8 10510.0   -11.0 10530.0    -8.0 10549.0    -6.0 10590.0
GR  -3.0 10609.0    -1.1 10630.0     -.3 10649.0     4.7 10669.0    20.0 10689.0
GR  29.6 10708.0    35.7 10713.0    44.2 10718.0    45.6 10748.0    46.9 10798.0
GR  47.2 10822.0    52.2 13822.0    72.2 13824.0
X1 59.20     34.   10153   10693    1056    1056    1056
X3    10
GR  89.0  7032.0    69.0  7034.0    64.0 10034.0    62.5 10047.0    58.4 10068.0
GR  57.1 10147.0    57.1 10153.0    50.5 10163.0    42.6 10177.0    37.2 10188.0
GR  35.4 10191.0    23.5 10220.0    13.0 10250.0     7.0 10289.0     2.9 10310.0
GR  -3.0 10331.0    -5.9 10350.0    -7.7 10391.0    -6.1 10410.0    -2.8 10429.0
GR  -2.7 10450.0     3.2 10509.0     9.2 10549.0    13.3 10588.0    17.0 10608.0
GR  21.0 10630.0    26.1 10649.0    35.5 10668.0    41.2 10676.0    46.9 10693.0
GR  46.9 10747.0    48.6 10846.0    53.6 13846.0    73.6 13848.0
X1 59.40     41.   10059   10633    1056    1056    1056
X3    10
GR  85.1  6948.0    65.1  6950.0    60.1  9950.0    58.3  9978.0    58.3 10001.0
GR  58.7 10050.0    58.3 10059.0    48.7 10070.0    37.5 10086.0    24.2 10109.0
GR  18.0 10129.0     9.4 10150.0     4.7 10170.0    -5.9 10210.0    -4.7 10231.0
GR  -1.8 10250.0     -.7 10270.0     -.7 10291.0     2.2 10348.0     8.1 10409.0
GR   8.1 10427.0    12.0 10467.0    13.0 10487.0    15.1 10508.0    18.2 10526.0
GR  19.0 10546.0    25.0 10586.0    35.8 10605.0    36.9 10609.0    48.0 10633.0
GR  48.0 10645.0    48.0 10675.0    48.0 10695.0    48.0 10793.0    50.1 10842.0
GR  57.0 10886.0    56.5 10892.0    53.8 10942.0    53.5 10991.0    58.5 13991.0
GR  78.5 13993.0
X1 59.50     43.   10091   10672     528     528     528
X3    10
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GR  83.6  6945.0    63.6  6947.0    58.6  9947.0    59.2 10014.0    61.0 10021.0
GR  61.8 10034.0    61.4 10047.0    58.2 10060.0    53.6 10067.0    53.6 10091.0
GR  45.9 10109.0    35.3 10125.0    25.6 10127.0    15.8 10148.0     2.9 10188.0
GR  -1.1 10208.0    -2.0 10227.0     1.0 10290.0     -.1 10310.0     3.0 10329.0
GR   6.9 10369.0     6.8 10390.0     8.0 10409.0     7.9 10429.0    10.7 10450.0
GR   9.7 10468.0    11.7 10489.0    13.7 10529.0    15.7 10549.0    16.5 10570.0
GR  18.7 10589.0    24.6 10627.0    35.1 10659.0    42.1 10672.0    42.1 10699.0
GR  46.2 10799.0    50.9 10838.0    58.0 10862.0    57.8 10898.0    54.8 10948.0
GR  54.7 10968.0    59.7 13968.0    79.7 13970.0
X1 59.70     33.   10062   10848    1056    1056    1056
X3    10
GR  89.9  6921.0    69.9  6923.0    64.9  9923.0    64.4  9945.0    62.5  9999.0
GR  62.9 10048.0    61.7 10062.0    52.2 10072.0    19.1 10128.0     9.9 10148.0
GR   4.8 10169.0     2.8 10189.0     2.8 10231.0     9.0 10350.0     9.0 10369.0
GR   7.9 10389.0    10.0 10409.0    10.9 10429.0    11.2 10449.0    12.0 10470.0
GR  12.1 10490.0    16.1 10570.0    18.1 10589.0    20.2 10627.0    33.3 10689.0
GR  45.6 10703.0    45.7 10749.0    51.6 10821.0    54.9 10848.0    54.9 10899.0
GR  54.9 10947.0    59.9 13947.0    79.9 13949.0
X1 59.90     48.   10016   10653    1056    1056    1056
X3    10
GR  88.3  6901.0    68.3  6903.0    63.3  9903.0    62.3  9921.0    61.5  9950.0
GR  61.4 10001.0    60.7 10016.0    49.5 10031.0    45.6 10040.0    35.5 10057.0
GR  30.5 10060.0    20.7 10080.0    12.0 10101.0     8.9 10120.0     5.0 10160.0
GR   7.0 10200.0     7.1 10219.0     9.1 10259.0     9.1 10280.0    10.1 10298.0
GR   9.1 10318.0    12.1 10377.0    12.1 10398.0    13.1 10417.0    13.2 10437.0
GR  14.1 10457.0    13.2 10476.0    15.1 10496.0    15.2 10516.0    16.1 10535.0
GR  18.2 10556.0    19.1 10575.0    21.1 10595.0    26.0 10614.0    32.1 10634.0
GR  35.7 10642.0    44.4 10653.0    44.4 10694.0    44.7 10744.0    52.2 10793.0
GR  50.5 10822.0    58.2 10892.0    60.3 10919.0    59.5 10941.0    60.1 10952.0
GR  59.3 10966.0    64.3 13966.0    84.3 13968.0
X1 60.00     44.   10023   10727     528     528     528
X3    10
GR  81.9  6846.0    61.9  6848.0    56.9  9848.0    56.9  9898.0    56.9  9949.0
GR  56.9  9998.0    56.9 10023.0    48.6 10048.0    39.0 10089.0    32.6 10109.0
GR  29.9 10124.0    25.8 10149.0    14.1 10209.0    10.9 10231.0     9.0 10249.0
GR   9.9 10270.0     9.0 10289.0     9.0 10309.0    10.1 10329.0    10.0 10350.0
GR  11.0 10370.0    11.0 10390.0     9.9 10410.0    11.0 10429.0    10.0 10450.0
GR  10.0 10469.0    10.9 10488.0    11.1 10529.0    12.1 10549.0    11.9 10589.0
GR  13.9 10610.0    16.0 10649.0    19.0 10669.0    18.9 10689.0    33.0 10708.0
GR  35.6 10718.0    46.7 10727.0    47.6 10768.0    53.0 10816.0    63.8 10852.0
GR  64.7 10912.0    55.2 10962.0    60.2 13962.0    80.2 13964.0
X1 60.20     42.   10054   10737    1056    1056    1056
X3    10
GR  82.2  6845.0    62.2  6847.0    57.2  9847.0    57.4  9896.0    56.5  9961.0
GR  44.2 10045.0    42.4 10054.0    36.6 10065.0    34.6 10067.0    22.9 10127.0
GR  17.1 10168.0     9.1 10208.0     8.1 10228.0    10.2 10268.0    10.4 10348.0
GR  12.4 10386.0    12.4 10407.0    13.4 10428.0    13.5 10447.0    14.5 10467.0
GR  13.6 10486.0    14.2 10506.0    14.4 10586.0    16.7 10605.0    18.7 10626.0
GR  17.8 10645.0    19.7 10685.0    28.6 10705.0    35.5 10721.0    42.1 10726.0
GR  47.0 10737.0    49.2 10794.0    50.5 10844.0    52.2 10928.0    53.6 10942.0
GR  57.7 10966.0    62.5 11004.0    60.4 11042.0    55.7 11092.0    53.6 11118.0
GR  58.6 14118.0    78.6 14120.0
X1 60.40     32.   10140   10923    1056    1056    1056
X3    10
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GR  80.6  7026.0    60.6  7028.0    55.6 10028.0    55.4 10054.0    53.5 10140.0
GR  34.4 10171.0    32.8 10184.0    12.6 10242.0     9.8 10263.0     8.7 10283.0
GR   9.6 10303.0    10.0 10323.0    10.7 10342.0     9.8 10362.0    10.7 10382.0
GR  10.8 10541.0    11.8 10561.0    12.0 10641.0    12.9 10660.0    12.9 10679.0
GR  17.0 10720.0    18.0 10740.0    19.9 10760.0    34.6 10796.0    34.6 10800.0
GR  40.8 10808.0    44.1 10823.0    45.1 10863.0    51.3 10899.0    53.2 10923.0
GR  58.2 13923.0    78.2 13925.0
X1 60.80     33.   10022   10799    2112    2112    2112
X3    10
GR  84.8  7020.0    64.8  7022.0    59.8 10022.0    52.7 10039.0    44.3 10054.0
GR  36.0 10067.0    31.9 10084.0    20.8 10104.0    15.0 10124.0    12.9 10144.0
GR  10.0 10164.0     9.0 10183.0    10.0 10204.0     9.8 10242.0    10.8 10262.0
GR  10.9 10302.0    11.9 10323.0    11.9 10382.0    12.9 10401.0    12.9 10541.0
GR  11.9 10561.0    13.0 10580.0    18.9 10620.0    24.9 10680.0    29.9 10701.0
GR  33.2 10719.0    34.4 10732.0    41.5 10751.0    51.5 10799.0    51.5 10849.0
GR  52.7 10898.0    57.7 13898.0    77.7 13900.0
X1 60.90     41.   10070   10811     528     528     528
X3    10
GR  86.1  7002.0    66.1  7004.0    61.1 10004.0    60.9 10049.0    60.5 10070.0
GR  52.5 10085.0    37.5 10104.0    34.4 10105.0    31.0 10109.0    17.1 10149.0
GR  11.1 10169.0     8.1 10189.0     7.1 10209.0     8.1 10230.0     8.1 10248.0
GR   9.0 10269.0     9.1 10289.0     8.2 10309.0     8.2 10329.0    10.3 10349.0
GR  11.1 10369.0    11.1 10389.0    10.1 10408.0    11.1 10428.0    11.2 10512.0
GR  12.1 10529.0    12.1 10549.0    13.3 10569.0    13.2 10588.0    15.3 10608.0
GR  21.3 10648.0    23.3 10669.0    30.3 10688.0    37.8 10709.0    40.8 10728.0
GR  47.0 10749.0    55.8 10811.0    55.8 10848.0    57.8 10894.0    62.8 13894.0
GR  82.8 13896.0
X1 61.10     30.   10056   10749    1056    1056    1056
X3    10
GR  82.8  7006.0    62.8  7008.0    57.8 10008.0    57.8 10056.0    52.4 10070.0
GR  34.4 10110.0    19.1 10151.0    12.0 10169.0     8.0 10209.0     8.8 10230.0
GR   8.9 10349.0    10.0 10369.0    10.0 10389.0     9.0 10410.0     8.8 10549.0
GR   8.9 10590.0    12.0 10609.0    18.9 10629.0    20.0 10649.0    23.0 10669.0
GR  31.2 10709.0    34.7 10717.0    38.9 10730.0    42.3 10736.0    50.5 10749.0
GR  51.4 10799.0    50.7 10848.0    56.3 10884.0    61.3 13884.0    81.3 13886.0
X1 61.20     40.   10035   10792     528     528     528
X3    10
GR  87.3  7004.0    67.3  7006.0    62.3 10006.0    62.3 10035.0    52.5 10057.0
GR  38.4 10104.0    34.8 10110.0    32.3 10121.0    19.2 10141.0    12.3 10161.0
GR  11.4 10181.0    12.1 10201.0    11.1 10221.0    11.1 10261.0    12.2 10281.0
GR  12.2 10301.0    11.3 10321.0    11.2 10341.0    10.4 10360.0    10.4 10420.0
GR   9.4 10441.0     9.3 10559.0    10.2 10579.0    12.5 10599.0    13.4 10619.0
GR  14.5 10639.0    17.3 10659.0    19.4 10679.0    24.5 10698.0    30.6 10714.0
GR  34.8 10726.0    44.0 10741.0    46.0 10754.0    53.9 10780.0    57.7 10792.0
GR  57.7 10799.0    57.7 10819.0    57.7 10849.0    62.7 13849.0    82.7 13851.0
X1 61.30     37. 10058.0 10749.0     528     528     528
X3    10
GR  87.1  7005.0    67.1  7007.0    62.1 10007.0    62.1 10022.0    62.1 10058.0
GR  51.0 10083.0    43.4 10101.0    38.2 10119.0    34.7 10119.1    29.9 10121.0
GR  25.0 10141.0    17.0 10160.0    11.9 10181.0     7.9 10220.0     7.9 10319.0
GR   8.9 10340.0     7.9 10359.0     7.9 10419.0     8.9 10439.0     8.9 10499.0
GR  10.1 10519.0     9.8 10541.0    10.9 10559.0    10.7 10578.0    11.8 10599.0
GR  13.8 10618.0    20.0 10659.0    24.8 10679.0    32.9 10699.0    34.4 10699.1
GR  43.0 10712.0    43.4 10720.0    51.3 10749.0    51.4 10798.0    52.3 10847.0
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GR  57.3 13847.0    77.3 13849.0
X1 61.50     38.   10077   10781    1056    1056    1056
X3    10
GR  88.1  7009.0    68.1  7011.0    63.1 10011.0    63.1 10053.0    63.1 10077.0
GR  48.5 10108.0    46.4 10115.0    41.4 10124.0    42.0 10151.0    37.9 10168.0
GR  34.3 10170.0    31.0 10181.0    24.0 10192.0    18.0 10201.0    13.9 10221.0
GR  11.0 10241.0     9.0 10281.0     8.9 10300.0     9.1 10461.0     8.1 10479.0
GR   8.1 10519.0    10.1 10539.0     9.1 10558.0     9.1 10579.0    11.2 10619.0
GR  11.2 10638.0    12.2 10659.0    16.1 10698.0    25.3 10719.0    32.2 10738.0
GR  34.9 10748.0    43.8 10758.0    52.5 10781.0    52.5 10798.0    52.5 10847.0
GR  52.5 10889.0    57.5 13889.0    77.5 13891.0
X1 61.60     39.   10102   10867     528     528     528
X3    10
GR  88.5  7051.0    68.5  7053.0    63.5 10053.0    63.5 10102.0    52.3 10151.0
GR  44.2 10201.0    41.6 10235.0    34.7 10260.0    30.1 10280.0    16.1 10299.0
GR  13.9 10320.0     9.0 10360.0     9.1 10380.0    11.1 10400.0    10.1 10422.0
GR  10.2 10461.0    11.2 10478.0    10.9 10500.0    13.1 10539.0    11.9 10561.0
GR  10.0 10579.0    11.0 10599.0    11.0 10620.0    10.1 10638.0    10.0 10660.0
GR   8.9 10680.0     8.8 10719.0    10.1 10739.0    13.4 10759.0    17.3 10779.0
GR  23.3 10800.0    28.3 10819.0    35.4 10835.0    38.3 10839.0    46.9 10856.0
GR  53.2 10867.0    54.4 10897.0    59.4 13897.0    79.4 13899.0
X1 61.70     41.   10027   10760     528     528     528
X3    10
GR  95.1  7025.0    75.1  7027.0    70.1 10027.0    65.8 10057.0    55.1 10077.0
GR  49.6 10101.0    44.6 10126.0    36.1 10146.0    28.8 10160.0    23.0 10181.0
GR  16.9 10200.0    13.8 10220.0    11.0 10241.0     6.9 10280.0     7.8 10299.0
GR   7.8 10320.0     9.0 10340.0     9.0 10360.0     9.8 10380.0    13.9 10419.0
GR  14.9 10440.0    14.7 10459.0    12.0 10479.0     8.8 10540.0     8.9 10559.0
GR  11.0 10579.0    11.9 10598.0    11.8 10639.0    14.1 10658.0    14.9 10677.0
GR  20.9 10698.0    28.7 10718.0    34.6 10723.0    44.6 10739.0    51.2 10760.0
GR  51.2 10798.0    54.0 10826.0    60.5 10875.0    60.8 10893.0    65.8 13893.0
GR  85.8 13895.0
X1 61.90     43.   10079   10698    1056    1056    1056
X3    10
GR  73.8  7003.0    53.8  7005.0    48.8 10005.0    48.8 10030.0    50.2 10050.0
GR  48.8 10079.0    42.1 10100.0    34.6 10112.0    30.0 10119.0    22.1 10141.0
GR  11.9 10160.0     5.0 10180.0    -1.1 10200.0    -3.1 10219.0    -3.1 10240.0
GR  -1.1 10259.0     2.1 10280.0     1.8 10300.0    -3.0 10320.0    -7.0 10339.0
GR  -8.1 10360.0    -7.1 10379.0    -7.1 10399.0    -5.0 10419.0    -3.0 10459.0
GR   4.8 10538.0     9.0 10558.0    13.2 10579.0    18.2 10598.0    27.2 10619.0
GR  32.3 10639.0    35.5 10641.0    39.7 10644.0    41.8 10660.0    44.3 10675.0
GR  54.8 10698.0    54.8 10749.0    54.8 10798.0    56.4 10816.0    64.2 10833.0
GR  64.4 10862.0    69.4 13862.0    89.4 13864.0
X1 62.10     41.   10078   10690    1056    1056    1056
X3    10
GR 128.5  7003.0   108.5  7005.0   103.5 10005.0   103.3 10051.0    99.1 10078.0
GR  78.0 10107.0    52.6 10131.0    46.0 10150.0    39.6 10180.0    34.7 10191.0
GR  32.0 10200.0    32.0 10220.0    28.1 10240.0    25.1 10260.0    27.0 10280.0
GR  22.9 10320.0    19.0 10340.0    17.9 10359.0    14.9 10379.0    11.0 10400.0
GR   9.9 10420.0    10.0 10439.0     4.9 10459.0     3.8 10479.0     3.9 10519.0
GR   4.9 10539.0     8.9 10558.0    11.9 10578.0    16.0 10619.0    17.0 10639.0
GR  24.9 10659.0    34.5 10675.0    37.3 10680.0    43.9 10690.0    44.8 10699.0
GR  44.8 10734.0    54.4 10784.0    55.0 10797.0    54.3 10839.0    59.3 13839.0
GR  79.3 13841.0
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X1 62.20     42.   10062   10790     528     528     528
X3    10
GR  74.1  7020.0    54.1  7022.0    49.1 10022.0    49.1 10062.0    45.6 10102.0
GR  38.1 10143.0    34.5 10148.0    31.8 10161.0    24.8 10181.0    21.0 10201.0
GR  16.9 10240.0    14.9 10281.0    14.9 10301.0    13.9 10320.0    11.8 10341.0
GR   8.8 10400.0     8.7 10420.0     9.9 10439.0    10.9 10460.0     9.9 10479.0
GR   9.9 10500.0    12.1 10519.0    12.9 10538.0    12.9 10558.0    13.9 10579.0
GR  12.8 10598.0    15.0 10639.0    15.7 10659.0    18.0 10679.0    17.9 10700.0
GR  18.8 10719.0    21.0 10738.0    30.5 10758.0    34.9 10763.0    42.7 10779.0
GR  49.5 10790.0    54.0 10839.0    59.7 10859.0    60.4 10873.0    59.2 10879.0
GR  64.2 13879.0    84.2 13881.0
X1 62.40     40.   10101   10728    1056    1056    1056
X3    10
GR  77.3  7019.0    57.3  7021.0    52.3 10021.0    50.5 10052.0    48.8 10101.0
GR  46.6 10117.0    39.2 10151.0    37.7 10156.0    34.5 10162.0    33.9 10170.0
GR  26.9 10190.0    18.8 10230.0    17.0 10250.0    15.9 10270.0    14.0 10290.0
GR  12.8 10309.0    10.8 10349.0     8.7 10370.0     5.8 10389.0     3.9 10409.0
GR   1.7 10429.0     -.1 10449.0    -1.2 10469.0    -1.2 10528.0      .8 10548.0
GR    .9 10569.0     -.1 10589.0     1.8 10629.0     4.7 10648.0    16.4 10669.0
GR  28.6 10687.0    34.3 10701.0    46.5 10714.0    56.8 10728.0    56.8 10748.0
GR  56.8 10768.0    56.8 10776.0    56.8 10791.0    61.8 13791.0    81.8 13793.0
X1 62.60     43.   10204   10757    1056    1056    1056
X3    10
GR  81.8  7008.0    61.8  7010.0    56.8 10010.0    55.5 10055.0    55.7 10125.0
GR  49.6 10155.0    46.3 10204.0    37.5 10227.0    34.7 10232.0    34.2 10244.0
GR  26.2 10263.0    24.2 10284.0    21.3 10303.0    17.1 10323.0    12.2 10343.0
GR   7.1 10362.0     1.1 10382.0    -9.9 10422.0   -16.9 10441.0   -22.0 10462.0
GR -22.0 10481.0   -19.9 10520.0   -13.0 10541.0    -7.9 10561.0    -7.0 10581.0
GR  -3.0 10601.0    -3.0 10621.0     1.0 10641.0     8.0 10661.0    13.0 10681.0
GR  22.1 10701.0    34.4 10720.0    49.3 10737.0    57.2 10757.0    57.3 10790.0
GR  59.5 10801.0    60.2 10812.0    59.3 10820.0    57.2 10844.0    57.2 10872.0
GR  57.2 10888.0    62.2 13888.0    82.2 13890.0
X1 62.80     43.   10103   10844    1056    1056    1056
X3    10
GR  85.0  7004.0    65.0  7006.0    60.0 10006.0    54.7 10053.0    50.7 10103.0
GR  34.6 10132.0    31.9 10152.0    21.9 10172.0    17.8 10192.0    14.0 10232.0
GR  12.0 10271.0     9.7 10311.0     7.7 10351.0     5.9 10391.0     3.8 10411.0
GR   1.8 10451.0     -.2 10470.0    -1.2 10490.0    -3.1 10510.0    -6.1 10530.0
GR -10.2 10549.0   -10.3 10570.0    -9.4 10590.0    -5.3 10610.0    -2.3 10630.0
GR   2.6 10650.0     9.9 10670.0    17.6 10689.0    23.8 10701.0    28.8 10709.0
GR  34.5 10722.0    38.1 10723.0    40.2 10730.0    43.7 10749.0    51.4 10781.0
GR  53.1 10812.0    59.3 10833.0    61.2 10844.0    61.2 10850.0    61.2 10870.0
GR  61.2 10886.0    66.2 13886.0    86.2 13888.0
X1 63.20     32.   10138   10668    2112    2112    2112
X3    10
GR  85.5  7029.0    65.5  7031.0    60.5 10031.0    60.5 10099.0    60.5 10138.0
GR  36.8 10171.0    22.0 10190.0    17.0 10210.0     2.0 10239.0    -3.0 10250.0
GR -10.1 10270.0   -12.0 10290.0   -12.1 10330.0   -10.1 10350.0    -7.0 10370.0
GR  -6.0 10392.0    -4.0 10410.0    -1.9 10450.0     4.2 10510.0    10.1 10550.0
GR  14.1 10570.0    29.2 10610.0    34.4 10630.0    40.8 10650.0    44.5 10668.0
GR  44.9 10701.0    48.7 10750.0    50.0 10776.0    54.0 10789.0    51.8 10798.0
GR  56.8 13798.0    76.8 13800.0
X1 63.50     39.   10106   10663    1584    1584    1584
X3    10
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GR  84.1  7049.0    64.1  7051.0    59.1 10051.0    53.6 10081.0    51.7 10101.0
GR  51.6 10106.0    45.9 10136.0    38.8 10143.0    34.5 10164.0    21.1 10170.0
GR  15.9 10190.0     9.9 10211.0     4.8 10231.0    -1.0 10251.0    -5.2 10271.0
GR -10.1 10290.0   -12.1 10330.0    -8.8 10351.0    -3.1 10370.0     -.1 10390.0
GR    .8 10410.0     3.0 10429.0     4.9 10450.0     9.0 10470.0    11.0 10510.0
GR  12.9 10530.0    15.0 10550.0    18.0 10570.0    23.0 10590.0    30.1 10610.0
GR  34.3 10614.0    39.3 10625.0    40.2 10631.0    52.7 10663.0    52.7 10701.0
GR  52.7 10750.0    52.7 10775.0    57.7 13775.0    77.7 13777.0
X1 63.70     41.   10118   10739    1056    1056    1056
X3    10
GR  90.9  7000.0    70.9  7002.0    65.9 10002.0    63.4 10034.0    62.1 10063.0
GR  54.1 10082.0    54.1 10095.0    51.1 10118.0    36.6 10142.0    34.5 10145.0
GR  30.8 10154.0    20.8 10173.0    16.8 10193.0     9.9 10212.0     4.7 10233.0
GR  -4.2 10273.0    -6.1 10292.0    -5.4 10312.0    -1.2 10332.0      .9 10352.0
GR   1.8 10371.0     1.9 10411.0     3.0 10432.0     2.9 10452.0     1.9 10471.0
GR   2.0 10491.0     -.2 10531.0     4.0 10550.0     6.0 10591.0    11.0 10610.0
GR  18.1 10631.0    25.0 10650.0    34.6 10665.0    39.4 10670.0    48.3 10697.0
GR  51.5 10719.0    57.7 10739.0    57.7 10799.0    57.7 10850.0    62.7 13850.0
GR  82.7 13852.0
X1 64.00     37.   10100   10767    1584    1584    1584
X3    10
GR  74.3  7001.0    54.3  7003.0    49.3 10003.0    49.6 10050.0    49.3 10100.0
GR  45.6 10130.0    39.4 10147.0    34.7 10151.0    30.8 10160.0    20.9 10200.0
GR  18.8 10220.0    15.9 10240.0    15.0 10260.0    12.9 10299.0    11.0 10339.0
GR   7.8 10398.0     5.7 10419.0     2.8 10478.0     2.8 10518.0     1.8 10539.0
GR   1.9 10558.0     -.1 10578.0     2.0 10599.0     2.9 10620.0     4.9 10638.0
GR  11.8 10659.0    19.7 10678.0    25.8 10698.0    34.1 10711.0    34.4 10718.0
GR  44.0 10737.0    59.1 10755.0    69.7 10767.0    69.7 10798.0    69.7 10869.0
GR  74.7 13869.0    94.7 13871.0
X1 64.20     33.   10100   10722    1056    1056    1056
X3    10
GR  76.2  7004.0    56.2  7006.0    51.2 10006.0    51.2 10020.0    53.0 10049.0
GR  51.2 10100.0    49.1 10117.0    40.8 10138.0    38.8 10155.0    34.6 10160.0
GR  33.0 10170.0    22.1 10209.0    16.1 10250.0    14.0 10270.0    13.1 10288.0
GR  13.1 10309.0    11.1 10329.0     7.9 10389.0     6.1 10408.0    -1.0 10549.0
GR  -4.1 10568.0     -.8 10589.0      .2 10609.0     8.1 10649.0    18.2 10669.0
GR  26.1 10689.0    38.4 10703.0    44.8 10710.0    57.7 10722.0    57.7 10749.0
GR  57.7 10847.0    62.7 13847.0    82.7 13849.0
X1 64.40     36.   10152   10691    1056    1056    1056
X3    10
GR  75.5  7022.0    55.5  7024.0    50.5 10024.0    50.5 10053.0    50.5 10092.0
GR  50.7 10102.0    52.6 10128.0    50.5 10152.0    44.0 10170.0    34.6 10172.0
GR  30.1 10191.0    26.0 10212.0    19.0 10232.0    12.9 10251.0     8.1 10271.0
GR   2.0 10310.0    -6.0 10390.0    -7.1 10410.0    -9.0 10429.0   -11.2 10469.0
GR -11.1 10490.0   -12.3 10509.0    -7.2 10528.0    -5.1 10549.0     -.2 10568.0
GR   5.9 10588.0    15.8 10608.0    27.0 10629.0    30.8 10648.0    34.3 10651.0
GR  42.9 10669.0    47.3 10680.0    57.7 10691.0    57.7 10790.0    62.7 13790.0
GR  82.7 13792.0
X1 64.60     36.   10131   10639    1056    1056    1056
X3    10
GR  74.8  7030.0    54.8  7032.0    49.8 10032.0    48.8 10052.0    45.8 10102.0
GR  45.2 10131.0    41.1 10151.0    42.2 10168.0    39.5 10172.0    31.2 10191.0
GR  17.0 10230.0    11.2 10251.0     7.3 10270.0     2.2 10290.0     -.7 10311.0
GR  -4.9 10330.0    -7.7 10351.0   -11.8 10370.0   -21.7 10411.0   -21.8 10430.0
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GR -14.8 10450.0    -9.8 10470.0    -3.7 10490.0     1.3 10510.0    18.0 10542.0
GR  21.4 10550.0    30.3 10569.0    30.3 10590.0    37.1 10595.0    38.8 10607.0
GR  46.4 10617.0    49.5 10630.0    57.8 10639.0    59.3 10649.0    64.3 13649.0
GR  84.3 13651.0
X1 64.90     42.   10157   10651    1584    1584    1584
X3    10
GR  83.4  7052.0    63.4  7054.0    58.4 10054.0    59.4 10083.0    54.0 10096.0
GR  52.3 10106.0    48.7 10157.0    37.8 10176.0    28.3 10182.0    20.3 10202.0
GR  15.3 10222.0     4.3 10241.0    -2.8 10261.0    -2.7 10281.0    -3.7 10301.0
GR  -6.7 10321.0    -6.7 10341.0    -8.8 10361.0   -10.8 10401.0    -8.6 10421.0
GR  -1.8 10440.0     -.9 10460.0     2.1 10480.0     2.2 10500.0     4.0 10519.0
GR   5.2 10540.0     8.2 10561.0    13.3 10581.0    22.2 10601.0    29.2 10621.0
GR  34.8 10625.0    40.7 10634.0    42.9 10640.0    49.5 10651.0    50.8 10701.0
GR  49.5 10751.0    50.5 10800.0    57.2 10830.0    60.6 10850.0    61.6 10902.0
GR  66.6 13902.0    86.6 13904.0
X1 65.10     33.   10107   10705    1056    1056    1056
X3    10
GR  82.3  7005.0    62.3  7007.0    57.3 10007.0    57.3 10052.0    57.3 10107.0
GR  53.8 10123.0    49.1 10143.0    44.5 10156.0    34.4 10168.0    30.7 10181.0
GR  18.3 10201.0    10.7 10221.0     7.7 10241.0     5.8 10261.0      .8 10280.0
GR  -1.3 10301.0    -1.3 10320.0     -.3 10339.0     -.2 10461.0     3.6 10500.0
GR   9.8 10520.0     9.7 10541.0    11.8 10579.0    14.6 10599.0    16.8 10620.0
GR  23.8 10640.0    31.8 10660.0    34.2 10663.0    36.6 10671.0    40.0 10684.0
GR  50.1 10705.0    55.1 13705.0    75.1 13707.0
X1 65.30     37.   10121   10655    1056    1056    1056
X3    10
GR  83.2  7029.0    63.2  7031.0    58.2 10031.0    58.2 10051.0    58.2 10101.0
GR  58.2 10121.0    51.8 10131.0    37.5 10158.0    34.8 10159.0    28.9 10171.0
GR  10.9 10211.0     3.9 10230.0     -.2 10250.0    -5.3 10270.0    -5.9 10292.0
GR  -5.6 10372.0    -4.6 10392.0    -1.5 10412.0    -1.6 10432.0      .4 10471.0
GR   2.6 10492.0     3.4 10511.0     6.5 10532.0    10.6 10551.0    13.8 10571.0
GR  17.7 10591.0    23.7 10610.0    29.7 10630.0    34.4 10631.0    40.1 10636.0
GR  47.2 10651.0    48.4 10655.0    50.0 10701.0    53.4 10751.0    53.6 10764.0
GR  58.6 13764.0    78.6 13766.0
X1 65.50     40. 10131.0 10812.0    1056    1056    1056
X3    10
GR 101.4  7030.0    81.4  7032.0    76.4 10032.0    76.2 10051.0    71.3 10101.0
GR  71.3 10131.0    61.3 10151.0    53.6 10206.0    47.9 10255.0    37.1 10289.0
GR  34.7 10292.0    31.7 10292.1    23.8 10309.0    15.0 10329.0     8.0 10349.0
GR   3.8 10369.0     1.0 10388.0     -.2 10408.0    -4.2 10429.0    -9.2 10468.0
GR  -9.2 10488.0    -7.1 10509.0    -6.1 10528.0    -6.0 10548.0    -4.1 10588.0
GR  -2.3 10608.0    -1.1 10627.0    -1.2 10647.0     2.1 10667.0     2.8 10688.0
GR   3.9 10708.0    10.7 10728.0    30.5 10775.0    34.3 10785.0    38.1 10788.0
GR  49.3 10812.0    52.6 10849.0    55.3 10892.0    60.3 13892.0    80.3 13894.0
X1 65.70     43.   10122   10859    1056    1056    1056
X3    10
GR 133.1  7022.0   113.1  7024.0   108.1 10024.0   107.8 10054.0    88.8 10073.0
GR  86.1 10078.0    66.0 10103.0    60.2 10122.0    49.7 10153.0    36.5 10203.0
GR  31.8 10242.0    24.8 10263.0    20.8 10282.0    19.7 10302.0    16.8 10322.0
GR  15.0 10342.0    13.7 10362.0    10.0 10400.0     6.9 10421.0     4.9 10441.0
GR   4.9 10481.0     5.8 10501.0     6.0 10521.0     7.0 10540.0     5.9 10560.0
GR   7.9 10601.0     7.9 10620.0     6.9 10640.0     7.0 10660.0    11.0 10700.0
GR  12.0 10720.0    12.1 10740.0    16.0 10760.0    25.3 10780.0    32.9 10799.0
GR  34.6 10809.0    41.5 10819.0    49.8 10835.0    53.2 10849.0    57.9 10859.0
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GR  57.9 10900.0    62.9 13900.0    82.9 13902.0
X1 66.00     35.   10053   10744    1584    1584    1584
X3    10
GR  80.2  7004.0    60.2  7006.0    55.2 10006.0    55.2 10028.0    55.2 10053.0
GR  52.4 10103.0    47.2 10154.0    41.1 10193.0    37.8 10203.0    37.1 10218.0
GR  39.2 10267.0    34.4 10269.0    29.7 10282.0    26.7 10303.0    23.0 10323.0
GR  15.8 10342.0    12.8 10361.0    10.9 10381.0     8.8 10422.0     8.8 10441.0
GR  -3.1 10560.0    -4.2 10580.0    -4.2 10620.0      .7 10639.0     5.9 10660.0
GR  20.9 10680.0    34.7 10700.0    47.5 10723.0    55.1 10738.0    58.8 10744.0
GR  58.9 10809.0    59.2 10832.0    58.8 10849.0    63.8 13849.0    83.8 13851.0
X1 66.20     44.   10175   10714    1056    1056    1056
X3    10
GR  78.7  7023.0    58.7  7025.0    53.7 10025.0    55.3 10052.0    51.5 10103.0
GR  50.4 10152.0    50.4 10175.0    43.5 10191.0    43.3 10202.0    39.6 10223.0
GR  35.1 10229.0    27.7 10243.0    18.6 10262.0    14.8 10281.0     8.7 10301.0
GR   4.7 10321.0    -1.4 10342.0   -10.4 10361.0   -13.5 10381.0   -15.5 10401.0
GR -22.5 10420.0   -24.6 10460.0    -9.4 10474.0    -2.4 10481.0     1.7 10501.0
GR   6.6 10520.0    10.6 10540.0    16.6 10560.0    22.9 10571.0    28.0 10581.0
GR  35.2 10591.0    37.6 10601.0    39.5 10615.0    46.6 10638.0    46.2 10646.0
GR  39.6 10667.0    52.0 10693.0    53.7 10700.0    59.3 10714.0    59.3 10750.0
GR  59.3 10800.0    59.3 10849.0    64.3 13849.0    84.3 13851.0
X1 66.40     46.   10119   10660    1056    1056    1056
X3    10
GR  81.3  7004.0    61.3  7006.0    56.3 10006.0    56.0 10051.0    54.3 10101.0
GR  54.3 10119.0    50.1 10137.0    41.5 10155.0    35.1 10160.0    20.0 10191.0
GR  15.0 10200.0     7.0 10220.0     6.0 10241.0     6.0 10261.0     5.0 10278.0
GR   4.0 10300.0     0.0 10339.0    -1.1 10360.0     0.0 10380.0     0.0 10400.0
GR  -1.1 10420.0     3.3 10439.0     3.0 10459.0     7.0 10479.0     8.1 10499.0
GR  13.1 10519.0    21.0 10539.0    25.7 10553.0    28.1 10559.0    35.5 10574.0
GR  42.7 10578.0    49.9 10590.0    47.7 10598.0    39.8 10617.0    40.9 10633.0
GR  51.6 10660.0    52.4 10674.0    57.5 10699.0    59.5 10713.0    58.6 10747.0
GR  59.6 10798.0    59.9 10807.0    60.0 10848.0    59.8 10892.0    64.8 13892.0
GR  84.8 13894.0
X1 66.60     37.   10136   10699    1056    1056    1056
X3    10
GR  84.1  7049.0    64.1  7051.0    59.1 10051.0    59.1 10136.0    51.6 10141.0
GR  48.3 10150.0    38.0 10170.0    35.2 10171.0    30.9 10180.0    21.9 10200.0
GR   5.0 10219.0     2.9 10239.0     2.9 10279.0     4.0 10298.0     5.9 10339.0
GR   5.8 10359.0     7.9 10379.0     7.8 10399.0    11.8 10439.0    12.8 10459.0
GR  12.8 10479.0    14.9 10498.0    16.6 10537.0    16.8 10558.0    18.8 10577.0
GR  19.8 10599.0    19.9 10619.0    30.9 10658.0    39.6 10668.0    49.5 10684.0
GR  54.1 10699.0    54.1 10748.0    54.1 10798.0    54.1 10849.0    54.1 10899.0
GR  59.1 13899.0    79.1 13901.0
X1 66.80     43.   10091   10656    1056    1056    1056
X3    10
GR  81.8  7025.0    61.8  7027.0    56.8 10027.0    56.8 10076.0    56.8 10091.0
GR  46.3 10106.0    36.9 10125.0    35.0 10133.0    33.8 10143.0    28.7 10162.0
GR  18.7 10202.0    16.7 10223.0     9.7 10242.0     6.7 10262.0     2.7 10282.0
GR    .6 10302.0      .7 10321.0    -2.3 10342.0     1.8 10361.0     3.7 10381.0
GR   3.8 10402.0     4.7 10421.0     4.7 10441.0     5.8 10461.0    12.6 10480.0
GR  18.6 10500.0    19.8 10521.0    21.8 10540.0    28.4 10562.0    33.9 10581.0
GR  35.3 10589.0    41.8 10601.0    46.2 10608.0    48.2 10644.0    54.5 10656.0
GR  54.7 10700.0    55.5 10719.0    55.9 10749.0    54.5 10801.0    54.5 10849.0
GR  54.5 10891.0    59.5 13891.0    79.5 13893.0
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X1 67.00     41. 10123.0 10584.0    1056    1056    1056
X3    10
GR  80.2  7007.0    60.2  7009.0    55.2 10009.0    54.7 10053.0    53.5 10083.0
GR  50.6 10103.0    50.6 10123.0    43.2 10138.0    37.0 10152.0    35.3 10152.1
GR  26.1 10182.0    20.0 10201.0    13.1 10221.0     4.0 10240.0    -2.0 10260.0
GR  -5.9 10280.0   -26.9 10320.0   -24.1 10339.0   -15.0 10359.0    -3.1 10400.0
GR  -1.1 10409.0     5.1 10440.0     8.0 10459.0     9.8 10480.0    15.1 10500.0
GR  28.8 10539.0    35.2 10544.0    41.6 10552.0    41.4 10560.0    41.5 10568.0
GR  48.3 10584.0    48.5 10599.0    53.5 10622.0    51.9 10650.0    54.1 10700.0
GR  55.4 10750.0    51.2 10799.0    50.0 10848.0    51.2 10900.0    56.2 13900.0
GR  76.2 13902.0
X1 67.20     46.   10188   10654    1056    1056    1056
X3    10
GR  75.3  7005.0    55.3  7007.0    50.3 10007.0    50.9 10054.0    47.1 10103.0
GR  45.8 10128.0    41.8 10153.0    40.1 10188.0    35.2 10201.0    33.8 10202.0
GR  32.5 10223.0    31.9 10243.0    30.8 10263.0    22.7 10282.0     8.9 10302.0
GR   -.1 10321.0    -2.2 10361.0    -1.2 10382.0    -1.3 10401.0    -2.2 10421.0
GR  -2.1 10461.0    -4.2 10481.0    -3.4 10501.0    -1.1 10520.0     2.9 10561.0
GR  11.9 10581.0    20.7 10600.0    30.2 10614.0    39.3 10630.0    42.2 10634.0
GR  48.1 10641.0    49.4 10644.0    51.6 10646.0    56.3 10652.0    58.3 10654.0
GR  58.5 10700.0    58.3 10751.0    58.3 10781.0    58.3 10800.0    58.3 10826.0
GR  58.3 10834.0    58.3 10848.0    58.3 10884.0    58.3 10899.0    63.3 13899.0
GR  83.3 13901.0
X1 67.40     40.   10102   10567    1056    1056    1056
X3    10
GR  81.4  7005.0    61.4  7007.0    56.4 10007.0    54.7 10052.0    54.6 10102.0
GR  51.9 10111.0    51.2 10126.0    35.1 10146.0    26.0 10161.0    11.9 10180.0
GR   1.8 10200.0    -3.2 10220.0    -5.3 10240.0      .8 10260.0    -1.3 10281.0
GR  -1.1 10301.0     0.0 10321.0     -.2 10360.0      .9 10380.0      .8 10400.0
GR   4.7 10440.0    11.1 10479.0    17.5 10499.0    22.1 10519.0    27.9 10539.0
GR  35.4 10547.0    42.0 10555.0    45.8 10559.0    49.5 10567.0    51.0 10578.0
GR  49.5 10599.0    49.5 10649.0    49.5 10698.0    53.3 10748.0    60.0 10786.0
GR  60.6 10799.0    61.2 10848.0    61.0 10892.0    66.0 13892.0    86.0 13894.0
X1 67.60     36. 10104.0 10597.0    1056    1056    1056
X3    10
GR  83.7  7023.0    63.7  7025.0    58.7 10025.0    58.7 10104.0    53.6 10109.0
GR  47.5 10124.0    36.8 10141.0    35.4 10141.1    30.1 10143.0    26.1 10163.0
GR  15.3 10182.0     6.2 10203.0      .2 10222.0    -2.8 10242.0    -4.9 10282.0
GR  -1.9 10302.0    -1.9 10322.0     -.9 10342.0     3.3 10381.0     5.1 10421.0
GR   6.2 10441.0    12.2 10501.0    17.1 10521.0    24.0 10540.0    29.1 10560.0
GR  35.4 10564.0    47.2 10580.0    55.2 10597.0    55.5 10609.0    55.2 10650.0
GR  55.2 10699.0    55.2 10750.0    55.2 10800.0    55.2 10894.0    60.2 13894.0
GR  80.2 13896.0
X1 67.80     34.   10143   10657    1056    1056    1056
X3    10
GR  81.6  7052.0    61.6  7054.0    56.6 10054.0    56.6 10143.0    45.7 10153.0
GR  38.1 10170.0    35.2 10174.0    27.9 10193.0    19.8 10212.0    17.8 10232.0
GR  14.9 10252.0     9.0 10273.0     7.0 10292.0     3.8 10312.0    -1.1 10332.0
GR  -4.1 10351.0    -2.1 10392.0      .7 10412.0     3.9 10431.0     9.9 10492.0
GR  10.9 10512.0    17.0 10572.0    27.8 10591.0    33.0 10611.0    40.1 10615.0
GR  46.3 10633.0    48.3 10636.0    53.6 10657.0    53.6 10702.0    55.2 10751.0
GR  54.0 10801.0    53.6 10819.0    58.6 13819.0    78.6 13821.0
X1 68.00     39.   10138   10690    1056    1056    1056
X3    10
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GR  81.0  7003.0    61.0  7005.0    56.0 10005.0    56.0 10054.0    56.0 10084.0
GR  56.0 10138.0    56.1 10164.0    51.2 10183.0    49.2 10203.0    49.3 10212.0
GR  35.5 10224.0    29.9 10283.0     5.8 10303.0     3.9 10323.0    -3.1 10342.0
GR  -4.2 10362.0   -10.1 10392.0   -23.1 10402.0   -15.2 10422.0    -7.2 10441.0
GR  -2.1 10461.0     2.9 10482.0     5.9 10502.0     6.8 10522.0     8.9 10541.0
GR  10.9 10581.0    12.8 10600.0    21.9 10621.0    35.1 10640.0    47.2 10662.0
GR  50.3 10681.0    54.4 10690.0    55.1 10701.0    55.1 10801.0    55.3 10816.0
GR  54.5 10850.0    54.4 10887.0    59.4 13887.0    79.4 13889.0
X1 68.20     38.   10378   10851    1056    1056    1056
X3    10
GR  76.4  7003.0    56.4  7005.0    51.4 10005.0    48.4 10053.0    47.4 10104.0
GR  46.3 10153.0    47.8 10203.0    50.2 10254.0    51.3 10263.0    48.8 10314.0
GR  47.5 10354.0    46.3 10378.0    37.0 10393.0    35.0 10395.0    30.7 10406.0
GR  25.9 10422.0    22.8 10442.0    17.8 10463.0    15.8 10503.0    11.9 10542.0
GR  10.7 10561.0     4.9 10621.0     4.0 10642.0      .8 10661.0    -1.2 10681.0
GR  -4.2 10702.0    -3.1 10721.0      .8 10741.0     2.0 10761.0    15.8 10781.0
GR  26.7 10801.0    35.3 10816.0    40.8 10820.0    54.2 10846.0    61.9 10851.0
GR  62.2 10902.0    67.2 13902.0    87.2 13904.0
X1 68.40     36. 10356.0 10800.0    1056    1056    1056
X3    10
GR  78.8  7053.0    58.8  7055.0    53.8 10055.0    53.8 10153.0    53.8 10203.0
GR  53.8 10253.0    54.3 10303.0    53.8 10352.0    53.8 10356.0    53.4 10356.1
GR  45.7 10370.0    38.4 10398.0    29.6 10402.0    23.9 10421.0    15.8 10461.0
GR  12.9 10482.0    11.7 10500.0     4.7 10521.0    -1.1 10541.0    -2.2 10561.0
GR  -4.2 10581.0    -7.1 10601.0    -8.2 10620.0    -5.1 10640.0    -8.2 10661.0
GR  -4.9 10680.0    -1.0 10700.0     8.0 10720.0    22.1 10739.0    27.9 10760.0
GR  35.1 10760.1    43.0 10774.0    58.4 10800.0    59.2 10850.0    64.2 13850.0
GR  84.2 13852.0
X1 68.60     38.   10202   10715    1056    1056    1056
X3    10
GR  79.8  7050.0    59.8  7052.0    54.8 10052.0    55.4 10107.0    54.2 10122.0
GR  54.2 10152.0    54.5 10182.0    54.2 10202.0    50.1 10217.0    43.9 10232.0
GR  35.4 10249.0    26.8 10261.0    19.9 10281.0    14.9 10301.0     8.9 10320.0
GR   6.8 10340.0     3.9 10361.0     2.8 10380.0    -2.1 10400.0    -2.1 10410.0
GR  -3.0 10440.0    -6.1 10459.0    -4.2 10499.0     0.0 10520.0     6.7 10539.0
GR  10.8 10560.0    21.9 10579.0    26.8 10600.0    29.9 10620.0    35.0 10637.0
GR  40.4 10660.0    53.1 10691.0    58.4 10715.0    59.5 10750.0    59.6 10800.0
GR  59.2 10899.0    64.2 13899.0    84.2 13901.0
X1 68.80     41.   10181   10733    1056    1056    1056
X3    10
GR  81.6  7003.0    61.6  7005.0    56.6 10005.0    56.4 10051.0    56.4 10101.0
GR  57.0 10152.0    55.6 10181.0    39.8 10200.0    39.5 10215.0    35.0 10217.0
GR  32.1 10221.0    22.9 10241.0    19.0 10260.0    13.9 10281.0    11.9 10320.0
GR  11.9 10340.0     9.8 10380.0     7.8 10399.0     5.9 10440.0     1.9 10479.0
GR   2.0 10519.0     2.8 10539.0     6.1 10559.0    10.0 10578.0    13.1 10599.0
GR  21.9 10618.0    30.1 10638.0    35.3 10664.0    43.2 10684.0    46.3 10698.0
GR  52.1 10709.0    59.3 10733.0    59.7 10749.0    59.5 10798.0    60.2 10810.0
GR  59.5 10824.0    59.3 10834.0    59.3 10842.0    59.3 10888.0    64.3 13888.0
GR  84.3 13890.0
X1 69.00     40.   10202   10745    1056    1056    1056
X3    10
GR  81.3  7051.0    61.3  7053.0    56.3 10053.0    57.0 10103.0    56.4 10152.0
GR  56.3 10202.0    45.0 10222.0    35.1 10241.0    30.7 10262.0    26.8 10282.0
GR  16.7 10301.0     8.7 10321.0     6.6 10341.0      .7 10361.0    -2.3 10380.0
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GR   -6.4 10421.0     -9.4 10441.0   -11.5 10461.0   -15.3 10481.0   -21.4 10520.0
GR -13.4 10540.0     -1.3 10560.0     5.6 10579.0    10.0 10600.0    16.8 10619.0
GR  20.8 10640.0    27.9 10660.0    30.9 10680.0    35.3 10684.0    38.5 10693.0
GR  44.3 10700.0    50.6 10710.0    58.4 10739.0    58.8 10745.0    59.4 10750.0
GR  59.0 10800.0    58.8 10844.0    58.8 10894.0    63.8 13894.0    83.8 13896.0
X1 69.30     39. 10121.0 10599.0    1584    1584    1584
X3    10
GR  82.7  7005.0    62.7  7007.0    57.7 10007.0    57.7 10050.0    57.7 10100.0
GR  57.7 10121.0    51.3 10130.0    49.3 10140.0    37.2 10143.0    35.1 10160.0
GR  23.0 10160.1     6.0 10199.0     3.0 10219.0    -1.1 10238.0     1.1 10279.0
GR   1.0 10299.0     -.2 10319.0     1.0 10338.0      .9 10358.0     2.1 10379.0
GR   2.2 10438.0     4.9 10457.0     9.0 10478.0    12.0 10498.0    18.1 10518.0
GR  31.9 10558.0    35.3 10569.0    41.0 10579.0    50.8 10599.0    53.2 10648.0
GR  54.5 10698.0    55.0 10748.0    52.3 10774.0    50.8 10798.0    51.2 10833.0
GR  61.6 10887.0    61.0 10898.0    66.0 13898.0    86.0 13900.0
X1 69.50     36.   10176   10733    1056    1056    1056
X3    10
GR  86.1  7050.0    66.1  7052.0    61.1 10052.0    61.4 10152.0    61.1 10176.0
GR  48.4 10201.0    44.4 10221.0    35.1 10244.0    27.8 10251.0    20.8 10271.0
GR  12.8 10290.0    10.7 10311.0     5.7 10331.0     2.7 10350.0      .7 10370.0
GR  -3.2 10390.0    -3.2 10410.0    -1.3 10450.0     1.6 10470.0     4.8 10530.0
GR   4.8 10549.0     6.7 10570.0    11.7 10590.0    18.7 10609.0    23.0 10630.0
GR  29.9 10650.0    35.1 10670.0    36.4 10671.0    40.5 10697.0    46.4 10720.0
GR  51.4 10733.0    51.5 10749.0    51.4 10849.0    51.4 10896.0    56.4 13896.0
GR  76.4 13898.0
X1 69.70     38.   10187   10678    1056    1056    1056
X3    10
GR  82.5  7100.0    62.5  7102.0    57.5 10102.0    57.5 10152.0    57.5 10187.0
GR  53.3 10202.0    45.5 10232.0    38.5 10252.0    23.0 10261.0    11.1 10282.0
GR   7.2 10301.0     5.1 10322.0     2.1 10341.0      .2 10361.0    -1.0 10381.0
GR  -2.9 10401.0    -3.9 10421.0    -1.9 10440.0    -1.0 10461.0     1.1 10480.0
GR   2.1 10500.0     5.2 10521.0     7.1 10541.0    11.1 10560.0    12.2 10580.0
GR  15.0 10600.0    21.1 10620.0    31.0 10640.0    42.9 10660.0    49.7 10667.0
GR  55.0 10678.0    55.6 10700.0    55.0 10750.0    55.3 10800.0    55.4 10850.0
GR  55.0 10894.0    60.0 13894.0    80.0 13896.0
X1 69.90     36.   10161   10650    1056    1056    1056
X3    10
GR  81.9  7000.0    61.9  7002.0    56.9 10002.0    56.9 10052.0    56.9 10086.0
GR  56.9 10101.0    57.5 10112.0    56.9 10161.0    50.8 10202.0    38.8 10230.0
GR  35.5 10232.0    27.0 10251.0    17.2 10271.0     5.1 10291.0      .3 10309.0
GR   -.9 10331.0     -.8 10351.0    -2.9 10371.0    -1.9 10391.0    -2.8 10410.0
GR  -2.8 10470.0      .3 10490.0     1.0 10510.0    -1.9 10530.0     7.5 10550.0
GR  15.4 10571.0    26.1 10590.0    35.6 10608.0    38.8 10610.0    46.5 10626.0
GR  51.0 10644.0    55.4 10650.0    55.7 10699.0    56.7 10750.0    61.7 13750.0
GR  81.7 13752.0
X1 70.10     38.   10216   10659    1056    1056    1056
X3    10
GR  76.6  7005.0    56.6  7007.0    51.6 10007.0    50.3 10052.0    50.3 10102.0
GR  50.3 10151.0    50.3 10172.0    52.0 10202.0    50.3 10216.0    37.4 10239.0
GR  35.3 10240.0    28.1 10261.0    20.6 10271.0    15.1 10279.0     8.0 10300.0
GR  -1.3 10319.0     -.1 10340.0     -.1 10360.0    -4.1 10440.0    -6.2 10459.0
GR  -5.1 10478.0    -5.2 10539.0    -3.3 10558.0    13.0 10578.0    21.0 10598.0
GR  27.7 10619.0    35.0 10622.0    47.6 10639.0    48.2 10642.0    50.5 10659.0
GR  58.2 10672.0    57.1 10699.0    56.5 10748.0    55.5 10798.0    54.2 10848.0
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GR  54.0 10878.0    59.0 13878.0    79.0 13880.0
X1 70.30     38. 10218.0 10699.0    1056    1056    1056
X3    10
GR  79.5  7001.0    59.5  7003.0    54.5 10003.0    51.8 10052.0    52.7 10101.0
GR  52.3 10150.0    50.0 10218.0    44.3 10230.0    40.4 10250.0    37.2 10280.0
GR  35.6 10280.1    26.9 10300.0    13.4 10320.0      .2 10340.0    -1.8 10360.0
GR  -1.7 10380.0     -.9 10400.0     -.8 10420.0      .2 10440.0      .2 10480.0
GR   -.8 10499.0     -.9 10520.0     3.3 10559.0     2.2 10580.0     4.3 10599.0
GR  14.4 10619.0    29.2 10639.0    35.6 10653.0    39.5 10659.0    51.0 10678.0
GR  51.4 10690.0    56.1 10699.0    56.1 10799.0    57.0 10848.0    57.1 10902.0
GR  56.8 10938.0    61.8 13938.0    81.8 13940.0
X1 70.40     39.   10150   10763     528     528     528
X3    10
GR  84.6  7048.0    64.6  7050.0    59.6 10050.0    60.0 10125.0    59.6 10150.0
GR  52.6 10169.0    44.3 10184.0    44.2 10199.0    43.6 10210.0    41.5 10220.0
GR  40.3 10233.0    38.0 10250.0    29.9 10280.0    22.9 10299.0    12.9 10319.0
GR   9.9 10339.0     8.9 10359.0     6.0 10379.0     4.1 10399.0     2.9 10419.0
GR   4.0 10439.0     3.8 10459.0     5.9 10499.0     8.9 10519.0    13.1 10559.0
GR  13.0 10579.0    17.0 10619.0    20.8 10639.0    27.9 10658.0    35.6 10672.0
GR  48.1 10696.0    43.5 10713.0    47.2 10748.0    53.3 10763.0    53.3 10798.0
GR  53.3 10847.0    53.3 10900.0    58.3 13900.0    78.3 13902.0
X1 70.50     42.   10152   10755     528     528     528
X3    10
GR  81.4  7050.0    61.4  7052.0    56.4 10052.0    56.4 10102.0    57.0 10137.0
GR  56.4 10152.0    53.2 10173.0    48.2 10187.0    40.1 10201.0    39.7 10226.0
GR  29.7 10261.0    22.8 10281.0    19.9 10301.0    14.9 10321.0    11.8 10341.0
GR   5.7 10360.0    -2.4 10380.0    -4.4 10400.0   -16.4 10420.0   -20.5 10440.0
GR -19.4 10460.0   -17.3 10480.0   -16.5 10500.0   -12.3 10520.0    -7.5 10540.0
GR  -3.3 10560.0     -.2 10579.0     4.8 10600.0    11.7 10620.0    13.8 10639.0
GR  13.8 10660.0    14.6 10679.0    24.7 10699.0    33.9 10719.0    37.3 10729.0
GR  43.6 10739.0    54.9 10755.0    55.5 10799.0    56.5 10849.0    56.2 10900.0
GR  61.2 13900.0    81.2 13902.0
X1 70.70     39.   10163   10869    1056    1056    1056
X3    10
GR  81.6  7052.0    61.6  7054.0    56.6 10054.0    56.6 10113.0    57.3 10127.0
GR  56.6 10163.0    45.7 10203.0    41.5 10221.0    41.9 10230.0    38.5 10263.0
GR  34.2 10275.0    27.3 10302.0    22.2 10321.0    -1.7 10361.0   -15.7 10380.0
GR -21.8 10401.0   -20.7 10420.0   -17.6 10441.0   -15.7 10460.0   -14.7 10480.0
GR -11.7 10500.0    -1.7 10540.0     7.2 10560.0    13.1 10580.0    16.1 10600.0
GR  18.2 10620.0    21.3 10640.0    20.3 10660.0    24.1 10700.0    27.2 10720.0
GR  35.6 10734.0    44.8 10748.0    48.9 10755.0    53.1 10800.0    55.3 10850.0
GR  57.3 10869.0    57.3 10897.0    62.3 13897.0    82.3 13899.0
X1 70.90     38.   10086   10634    1056    1056    1056
X3    10
GR  75.4  7005.0    55.4  7007.0    50.4 10007.0    50.4 10051.0    50.4 10086.0
GR  45.3 10101.0    38.6 10131.0    36.7 10138.0    34.1 10173.0    18.0 10200.0
GR   5.0 10220.0     0.0 10240.0    -1.0 10260.0      .1 10280.0    -3.1 10300.0
GR  -3.1 10319.0    -1.1 10339.0     2.9 10359.0     5.0 10379.0     5.9 10399.0
GR   8.9 10419.0    11.0 10459.0    10.0 10479.0    14.0 10519.0    15.0 10538.0
GR  19.9 10558.0    29.0 10578.0    39.5 10598.0    47.0 10613.0    55.6 10634.0
GR  55.6 10649.0    55.6 10698.0    56.4 10723.0    60.9 10758.0    61.7 10798.0
GR  62.1 10848.0    67.1 13848.0    87.1 13850.0
X1 71.10     39.   10280   10827    1056    1056    1056
X3    10
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GR  76.9  7008.0    56.9  7010.0    51.9 10010.0    51.2 10053.0    53.5 10103.0
GR  54.4 10139.0    53.1 10154.0    51.2 10202.0    48.1 10253.0    48.1 10280.0
GR  34.0 10303.0    28.9 10322.0    24.8 10341.0    21.9 10362.0    19.9 10382.0
GR  19.9 10422.0    17.9 10441.0    17.9 10461.0    16.9 10481.0    14.9 10501.0
GR  13.8 10521.0    13.9 10541.0    11.8 10561.0    10.9 10581.0     9.0 10600.0
GR   7.9 10621.0     5.8 10640.0     6.0 10700.0     4.8 10720.0     8.9 10740.0
GR  21.0 10760.0    25.9 10780.0    39.6 10790.0    49.5 10800.0    60.7 10820.0
GR  60.7 10827.0    60.9 10852.0    65.9 13852.0    85.9 13854.0
X1 71.30     36.   10269   10787    1056    1056    1056
X3    10
GR  78.8  7005.0    58.8  7007.0    53.8 10007.0    53.8 10052.0    53.8 10101.0
GR  53.8 10151.0    53.8 10201.0    53.8 10241.0    54.7 10250.0    53.8 10269.0
GR  45.2 10285.0    40.7 10298.0    30.1 10319.0    25.0 10339.0    17.0 10380.0
GR  15.0 10399.0    12.0 10419.0     6.0 10479.0     2.0 10499.0     0.0 10519.0
GR  -5.9 10558.0    -8.0 10598.0    -6.0 10638.0    -2.1 10658.0    12.1 10698.0
GR  15.0 10718.0    25.0 10738.0    34.1 10754.0    35.3 10761.0    40.5 10767.0
GR  51.3 10777.0    59.6 10787.0    60.3 10848.0    60.1 10895.0    65.1 13895.0
GR  85.1 13897.0
X1 71.50     39.   10158   10814    1056    1056    1056
X3    10
GR  80.3  7005.0    60.3  7007.0    55.3 10007.0    55.3 10024.0    55.4 10054.0
GR  55.3 10103.0    55.4 10133.0    55.3 10158.0    51.8 10183.0    50.8 10203.0
GR  48.0 10228.0    33.9 10253.0    27.9 10262.0    19.9 10282.0    15.9 10303.0
GR   7.8 10322.0     5.9 10342.0     1.8 10362.0    -4.1 10422.0    -5.1 10442.0
GR  -8.1 10461.0   -13.0 10481.0   -14.9 10501.0   -16.1 10521.0   -14.1 10561.0
GR -11.8 10582.0    -7.0 10601.0    -4.0 10621.0     5.0 10661.0    10.0 10680.0
GR  14.0 10699.0    34.6 10754.0    39.3 10760.0    49.3 10778.0    51.1 10795.0
GR  52.4 10800.0    59.4 10814.0    64.4 13814.0    84.4 13816.0
X1 71.70     41. 10071.0 10615.0    1056    1056    1056
X3    10
GR  81.3  7004.0    61.3  7006.0    56.3 10006.0    56.7 10026.0    56.3 10071.0
GR  55.7 10071.1    43.6 10074.0    43.4 10084.0    34.5 10090.0    26.1 10121.0
GR  20.1 10140.0    17.2 10160.0    10.2 10181.0     5.2 10200.0     2.2 10220.0
GR   3.1 10241.0     7.3 10280.0     9.2 10300.0    13.2 10379.0    13.2 10420.0
GR  14.3 10440.0    14.3 10460.0    13.2 10480.0    13.3 10500.0    17.3 10519.0
GR  20.2 10539.0    24.2 10559.0    31.2 10579.0    35.6 10593.0    36.7 10600.0
GR  41.7 10615.0    42.0 10619.0    42.3 10649.0    45.3 10699.0    47.4 10749.0
GR  47.9 10799.0    50.3 10830.0    51.6 10849.0    52.7 10892.0    57.7 13892.0
GR  77.7 13894.0
X1 71.90     40.   10124   10677    1056    1056    1056
X3    10
GR  83.9  7051.0    63.9  7053.0    58.9 10053.0    58.9 10124.0    47.7 10141.0
GR  41.1 10155.0    34.4 10170.0    29.4 10201.0    25.1 10221.0    21.1 10241.0
GR  20.1 10260.0    13.1 10280.0    10.1 10300.0     5.1 10320.0     3.0 10339.0
GR   4.1 10360.0     3.1 10380.0     4.1 10399.0     6.1 10420.0     7.0 10440.0
GR   9.1 10459.0    11.1 10499.0    10.1 10519.0    11.1 10538.0    13.0 10559.0
GR  17.2 10580.0    27.8 10602.0    34.3 10619.0    34.9 10622.0    38.3 10634.0
GR  43.7 10646.0    49.2 10668.0    53.8 10677.0    53.8 10699.0    53.8 10749.0
GR  53.8 10798.0    53.8 10849.0    53.8 10901.0    58.8 13901.0    78.8 13903.0
X1 72.10     36.   10134   10719    1056    1056    1056
X3    10
GR  78.0  7052.0    58.0  7054.0    53.0 10054.0    53.0 10104.0    53.0 10134.0
GR  41.1 10163.0    33.9 10177.0    31.0 10202.0    31.0 10223.0    30.0 10243.0
GR  22.9 10283.0    16.9 10303.0    14.9 10323.0    14.0 10342.0    14.0 10382.0
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GR  12.0 10402.0    11.0 10422.0    10.9 10442.0     9.1 10462.0     9.0 10482.0
GR   5.9 10541.0     5.8 10562.0     3.9 10581.0     3.1 10600.0    13.0 10621.0
GR  19.9 10641.0    30.9 10681.0    36.2 10690.0    42.5 10702.0    57.6 10719.0
GR  57.6 10751.0    57.6 10801.0    57.6 10850.0    57.6 10900.0    62.6 13900.0
GR  82.6 13902.0
X1 72.30     36.   10142   10669    1056    1056    1056
X3    10
GR  82.1  7003.0    62.1  7005.0    57.1 10005.0    57.1 10052.0    57.1 10142.0
GR  51.0 10151.0    42.8 10179.0    34.0 10202.0    30.0 10221.0    24.0 10241.0
GR  21.0 10261.0    21.0 10301.0    12.1 10320.0     7.0 10359.0     7.0 10380.0
GR   5.9 10400.0     3.9 10420.0     3.0 10440.0     0.0 10459.0    -4.1 10500.0
GR  -5.2 10519.0    -7.1 10539.0    -1.1 10559.0     3.0 10579.0    21.0 10620.0
GR  34.5 10624.0    42.7 10640.0    45.3 10649.0    57.9 10669.0    57.9 10700.0
GR  57.9 10749.0    57.9 10799.0    57.9 10848.0    61.2 10901.0    66.2 13901.0
GR  86.2 13903.0
X1 72.50     37.   10259   10660    1056    1056    1056
X3    10
GR  81.2  7001.0    61.2  7003.0    56.2 10003.0    52.3 10052.0    49.8 10081.0
GR  49.8 10102.0    52.4 10190.0    49.8 10202.0    49.8 10251.0    49.8 10259.0
GR  48.0 10261.0    34.3 10275.0    25.8 10282.0    18.8 10302.0    10.8 10322.0
GR   4.9 10341.0     2.0 10361.0     -.1 10401.0    -9.0 10421.0    -7.1 10441.0
GR –20.3 10462.0   -23.3 10481.0   -26.2 10501.0   -25.2 10521.0   -14.1 10541.0
GR   -.1 10560.0    11.0 10580.0    19.1 10602.0    25.1 10621.0    42.7 10660.0
GR  45.8 10701.0    52.7 10750.0    56.6 10800.0    61.0 10850.0    61.5 10891.0
GR  66.5 13891.0    86.5 13893.0
X1 72.70     34.   10293   10801    1056    1056    1056
X3    10
GR  83.4  7003.0    63.4  7005.0    58.4 10005.0    58.4 10053.0    58.4 10103.0
GR  58.4 10203.0    58.4 10253.0    58.4 10293.0    44.4 10308.0    28.1 10342.0
GR  20.1 10362.0     9.9 10382.0     6.0 10402.0    -2.1 10442.0    -2.2 10462.0
GR   0.0 10482.0     1.9 10522.0     3.1 10541.0     3.0 10562.0     1.9 10581.0
GR   3.0 10602.0     2.9 10622.0     9.0 10662.0    12.1 10681.0    17.1 10701.0
GR  27.1 10721.0    34.3 10737.0    42.0 10750.0    45.9 10761.0    51.8 10801.0
GR  51.8 10851.0    51.8 10888.0    56.8 13888.0    76.8 13890.0
X1 72.90     39.   10351   10801    1056    1056    1056
X3    10
GR  80.9  7005.0    60.9  7007.0    55.9 10007.0    56.1 10053.0    56.1 10103.0
GR  56.8 10170.0    56.8 10188.0    57.4 10203.0    57.8 10252.0    58.8 10287.0
GR  58.3 10302.0    58.9 10307.0    54.8 10333.0    53.5 10351.0    44.6 10357.0
GR  34.0 10376.0    29.1 10382.0    12.9 10422.0     5.8 10442.0      .9 10461.0
GR  -1.0 10481.0     -.1 10501.0    -2.0 10541.0    -2.1 10561.0    -1.0 10581.0
GR  -1.0 10601.0     -.1 10622.0     -.1 10661.0     2.1 10682.0    18.0 10721.0
GR  24.9 10741.0    31.1 10762.0    45.7 10781.0    54.4 10801.0    56.5 10820.0
GR  56.6 10851.0    55.8 10894.0    60.8 13894.0    80.8 13896.0
X1 73.20     37.   10277   10746    1584    1584    1584
X3    10
GR  85.0  7152.0    65.0  7154.0    60.0 10154.0    59.8 10189.0    58.5 10208.0
GR  55.9 10223.0    55.9 10253.0    55.9 10277.0    52.4 10283.0    45.9 10300.0
GR  41.1 10323.0    34.2 10335.0    31.0 10342.0    23.9 10361.0    14.1 10381.0
GR   7.0 10401.0     6.0 10422.0     0.0 10481.0    -1.0 10501.0     -.9 10542.0
GR  -2.3 10561.0    -1.0 10581.0    -1.1 10601.0     -.1 10621.0     6.8 10640.0
GR  14.0 10681.0    29.1 10700.0    34.4 10713.0    39.1 10721.0    44.3 10731.0
GR  54.4 10746.0    55.4 10751.0    58.4 10801.0    57.7 10851.0    58.4 10898.0
GR  63.4 13898.0    83.4 13900.0
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X1 73.40     36.   10228   10751    1056    1056    1056
X3    10
GR  85.3  7051.0    65.3  7053.0    60.3 10053.0    60.1 10083.0    61.3 10103.0
GR  60.9 10153.0    55.8 10183.0    54.2 10198.0    53.4 10228.0    46.6 10253.0
GR  44.8 10273.0    33.8 10292.0    28.7 10302.0    15.7 10322.0     8.9 10342.0
GR   4.8 10362.0     4.8 10382.0    -1.0 10402.0    -3.1 10442.0    -1.0 10482.0
GR  -1.1 10501.0     0.0 10520.0     -.1 10581.0     3.9 10602.0    10.9 10621.0
GR  23.8 10641.0    33.7 10656.0    38.8 10661.0    42.8 10686.0    47.1 10701.0
GR  54.7 10751.0    57.8 10801.0    59.2 10851.0    57.9 10893.0    62.9 13893.0
GR  82.9 13895.0
X1 73.60     42.   10264   10677    1056    1056    1056
X3    10
GR  86.3  7051.0    66.3  7053.0    61.3 10053.0    59.4 10103.0    60.1 10153.0
GR  59.3 10178.0    52.4 10202.0    45.1 10264.0    42.7 10267.0    37.6 10273.0
GR  33.9 10280.0    26.8 10283.0    20.0 10302.0    12.0 10322.0     .9 10341.0
GR  -1.0 10362.0     .9 10382.0     .9 10401.0    -1.0 10422.0    -2.0 10442.0
GR  -2.1 10462.0    -1.1 10481.0    -1.2 10502.0    -2.1 10522.0    -2.2 10541.0
GR   5.8 10581.0    12.9 10601.0    16.0 10631.0    24.9 10641.0    33.8 10644.0
GR  44.6 10661.0    54.3 10677.0    56.6 10701.0    56.6 10731.0    54.3 10751.0
GR  54.3 10802.0    54.3 10827.0    56.8 10856.0    59.0 10869.0    60.8 10900.0
GR  65.8 13900.0    85.8 13902.0
X1 73.80     40.   10243   10665    1056    1056    1056
X3    10
GR  85.2  7008.0    65.2  7010.0    60.2 10010.0    60.4 10045.0    58.2 10052.0
GR  53.6 10082.0    53.6 10101.0    54.0 10151.0    53.6 10201.0    53.6 10243.0
GR  44.1 10270.0    33.8 10281.0    27.8 10301.0    16.8 10320.0     8.9 10340.0
GR   2.9 10360.0     1.9 10380.0     -.2 10399.0     0.0 10421.0     -.9 10440.0
GR   -.1 10460.0     0.0 10500.0    -2.1 10540.0    -2.1 10560.0     5.0 10580.0
GR   7.0 10600.0    10.0 10619.0    20.1 10639.0    34.5 10652.0    52.6 10659.0
GR  52.2 10665.0    52.2 10678.0    54.2 10684.0    55.7 10699.0    56.5 10749.0
GR  54.7 10799.0    52.2 10848.0    52.6 10895.0    57.6 13895.0    77.6 13897.0
X1 74.00     36.   10151   10712    1056    1056    1056
X3    10
GR  84.6  7010.0    64.6  7012.0    59.6 10012.0    60.4 10045.0    60.4 10052.0
GR  58.1 10101.0    53.4 10140.0    49.4 10151.0    46.5 10201.0    41.4 10250.0
GR  37.5 10281.0    28.0 10300.0    22.9 10320.0    15.9 10340.0     4.1 10360.0
GR   1.9 10379.0     1.1 10399.0     .9 10440.0     -.1 10459.0     .9 10479.0
GR  -3.0 10559.0    -3.0 10579.0    -2.2 10598.0     0.0 10618.0     6.0 10638.0
GR  17.8 10658.0    34.1 10672.0    41.9 10685.0    52.4 10698.0    56.9 10712.0
GR  57.5 10748.0    56.9 10797.0    56.9 10848.0    56.9 10894.0    61.9 13894.0
GR  81.9 13896.0
X1 74.20     37.   10187   10763    1056    1056    1056
X3    10
GR  83.7  7006.0    63.7  7008.0    58.7 10008.0    58.7 10054.0    58.7 10104.0
GR  58.7 10118.0    58.7 10139.0    58.7 10154.0    58.7 10187.0    53.4 10213.0
GR  43.6 10233.0    40.9 10264.0    26.1 10301.0    17.1 10322.0    15.2 10342.0
GR   9.2 10361.0     7.1 10382.0     4.1 10401.0     6.1 10421.0     7.0 10441.0
GR   7.2 10481.0     6.1 10501.0     7.1 10520.0     7.2 10600.0     7.9 10620.0
GR  12.1 10640.0    19.1 10660.0    25.1 10699.0    30.1 10709.0    34.3 10727.0
GR  44.5 10740.0    55.5 10763.0    56.7 10799.0    55.5 10849.0    55.5 10896.0
GR  60.5 13896.0    80.5 13898.0
X1 74.40     38.   10176   10725    1056    1056    1056
X3    10
GR  82.7  7002.0    62.7  7004.0    57.7 10004.0    59.2 10163.0    56.6 10176.0
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GR  50.1 10183.0    41.8 10200.0    35.9 10211.0    33.6 10236.0    27.7 10243.0
GR  16.7 10282.0    16.7 10302.0    10.7 10321.0     8.7 10342.0     2.7 10362.0
GR  -1.3 10382.0     -.4 10401.0    -4.4 10421.0    -7.3 10441.0    -7.4 10461.0
GR  -3.3 10501.0     -.5 10521.0     1.7 10541.0     4.7 10561.0     4.7 10581.0
GR   9.7 10600.0    16.7 10620.0    19.8 10640.0    33.9 10670.0    47.3 10700.0
GR  56.0 10725.0    58.2 10749.0    57.2 10800.0    56.6 10850.0    56.0 10870.0
GR  56.0 10898.0    61.0 13898.0    81.0 13900.0
X1 74.60     43.   10222   10783    1056    1056    1056
X3    10
GR  82.8  7002.0    62.8  7004.0    57.8 10004.0    57.4 10043.0    57.4 10068.0
GR  57.4 10088.0    57.4 10147.0    60.2 10152.0    60.6 10162.0    60.0 10172.0
GR  57.4 10182.0    57.4 10222.0    47.3 10233.0    39.4 10253.0    34.1 10261.0
GR  30.0 10262.0    25.9 10283.0    25.1 10302.0    14.9 10322.0     2.9 10342.0
GR  -1.1 10361.0   -22.2 10401.0   -27.2 10421.0   -27.2 10441.0   -26.2 10461.0
GR -24.3 10481.0   -18.1 10501.0   -11.1 10521.0    -5.1 10542.0     3.9 10581.0
GR  10.0 10621.0    13.8 10661.0    18.0 10680.0    27.1 10700.0    34.4 10725.0
GR  39.8 10740.0    48.7 10771.0    55.6 10783.0    56.9 10801.0    55.8 10850.0
GR  55.6 10899.0    60.6 13899.0    80.6 13901.0
X1 74.80     40.   10327   10829    1056    1056    1056
X3    10
GR  82.7  7026.0    62.7  7028.0    57.7 10028.0    57.7 10053.0    71.3 10060.0
GR  71.4 10078.0    66.0 10103.0    57.7 10154.0    57.7 10203.0    57.7 10222.0
GR  57.7 10253.0    58.2 10303.0    57.7 10327.0    50.4 10352.0    46.1 10386.0
GR  42.2 10401.0    30.6 10411.0    23.9 10432.0     7.7 10472.0     7.8 10491.0
GR   5.0 10512.0     -.2 10532.0    -1.2 10551.0    -1.2 10591.0     -.1 10611.0
GR   -.2 10631.0     1.0 10651.0     1.7 10671.0     1.9 10691.0    11.8 10731.0
GR  13.8 10751.0    21.9 10771.0    34.6 10791.0    38.0 10796.0    52.3 10811.0
GR  59.1 10829.0    59.5 10851.0    59.1 10899.0    64.1 13899.0    84.1 13901.0
X1 74.90     38. 10284.0 10776.0     528     528     528
X3    10
GR  83.3  7003.0    63.3  7005.0    58.3 10005.0    58.3 10102.0    58.3 10202.0
GR  58.6 10251.0    58.3 10284.0    51.4 10293.0    43.2 10313.0    33.9 10321.0
GR  24.9 10340.0    18.9 10360.0    13.9 10380.0     9.9 10399.0     6.9 10420.0
GR  -1.1 10439.0     -.4 10459.0      .8 10479.0     1.8 10499.0     1.8 10559.0
GR    .9 10579.0      .8 10618.0     6.8 10639.0     8.6 10658.0    20.0 10678.0
GR  25.8 10698.0    30.8 10718.0    33.8 10718.1    40.3 10738.0    44.2 10755.0
GR  54.0 10776.0    54.0 10798.0    54.0 10823.0    59.7 10859.0    61.9 10880.0
GR  61.1 10899.0    66.1 13899.0    86.1 13901.0
X1 75.10     42.   10195   10777    1056    1056    1056
X3    10
GR  78.9  7003.0    58.9  7005.0    53.9 10005.0    54.1 10050.0    53.4 10100.0
GR  55.0 10140.0    57.1 10156.0    52.2 10195.0    45.0 10212.0    25.9 10239.0
GR  21.9 10259.0    13.1 10299.0    11.0 10319.0     9.8 10340.0     6.0 10379.0
GR   2.9 10398.0     3.9 10419.0     2.9 10438.0      .9 10459.0     5.0 10499.0
GR   4.0 10520.0     5.1 10539.0     3.0 10559.0     3.1 10579.0     5.1 10599.0
GR   8.0 10618.0    13.0 10639.0    23.1 10659.0    34.2 10678.0    36.3 10698.0
GR  43.1 10711.0    42.4 10727.0    38.2 10737.0    41.1 10749.0    60.7 10777.0
GR  61.2 10788.0    60.7 10811.0    60.7 10829.0    60.7 10849.0    60.7 10867.0
GR  65.7 13867.0    85.7 13869.0
X1 75.30     37.   10113   10668    1056    1056    1056
X3    10
GR  84.2  7052.0    64.2  7054.0    59.2 10054.0    59.2 10113.0    50.5 10119.0
GR  40.9 10143.0    34.6 10155.0    22.2 10183.0    16.1 10203.0    10.0 10222.0
GR   2.1 10242.0     3.0 10263.0     2.0 10283.0     3.1 10303.0      .9 10343.0
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GR    .9 10362.0     3.0 10383.0     4.0 10402.0     3.8 10442.0     8.0 10482.0
GR   7.0 10503.0     4.9 10523.0     4.0 10542.0     8.1 10563.0    15.1 10583.0
GR  25.2 10602.0    36.4 10639.0    43.9 10650.0    48.5 10668.0    48.5 10702.0
GR  48.5 10728.0    48.5 10777.0    54.9 10802.0    54.1 10853.0    52.3 10902.0
GR  57.3 13902.0    77.3 13904.0
X1 75.70     40.   10148   10622    2112    2112    2112
X3    10
GR  80.0  7009.0    60.0  7011.0    55.0 10011.0    55.0 10052.0    55.0 10073.0
GR  55.0 10079.0    55.0 10086.0    55.0 10101.0    55.0 10148.0    50.1 10155.0
GR  41.4 10178.0    40.8 10185.0    33.8 10201.0    28.9 10221.0    20.0 10240.0
GR   4.8 10280.0     3.9 10301.0     4.7 10321.0     1.9 10340.0      .7 10360.0
GR    .9 10380.0     1.8 10400.0      .9 10419.0      .9 10500.0     5.0 10540.0
GR   9.0 10559.0    17.9 10579.0    34.2 10599.0    47.6 10620.0    48.7 10622.0
GR  48.7 10649.0    53.2 10684.0    53.6 10700.0    58.7 10724.0    58.4 10749.0
GR  58.2 10799.0    59.6 10849.0    61.4 10900.0    66.4 13900.0    86.4 13902.0
X1 77.60     37.   10152   10655   10032   10032   10032
X3    10
GR  84.5  7008.0    64.5  7010.0    59.5 10010.0    59.5 10103.0    59.5 10152.0
GR  53.6 10177.0    37.6 10208.0    34.3 10213.0    18.9 10232.0     8.9 10251.0
GR   5.8 10271.0     4.8 10290.0     -.1 10311.0    -9.2 10330.0    -1.3 10350.0
GR  -4.2 10371.0    -3.4 10391.0     2.8 10430.0     3.7 10450.0     5.7 10470.0
GR   7.8 10510.0    11.8 10549.0    12.8 10569.0    15.9 10590.0    22.0 10600.0
GR  27.9 10610.0    37.2 10629.0    42.9 10635.0    56.4 10655.0    58.6 10669.0
GR  57.4 10699.0    56.4 10748.0    56.4 10798.0    56.4 10848.0    56.4 10888.0
GR  61.4 13888.0    81.4 13890.0
X1 77.80     43.   10203   10800    1056    1056    1056
X3    10
GR  88.5  7005.0    68.5  7007.0    63.5 10007.0    63.1 10054.0    63.4 10083.0
GR  59.3 10104.0    55.6 10133.0    55.2 10162.0    54.9 10203.0    47.3 10233.0
GR  41.6 10243.0    35.4 10264.0    33.3 10273.0    26.0 10293.0    19.9 10313.0
GR  16.1 10332.0    14.0 10350.0    11.0 10411.0    11.1 10431.0    12.0 10450.0
GR  10.9 10470.0    12.0 10491.0    10.8 10510.0    11.9 10530.0    10.0 10549.0
GR  11.0 10570.0     8.9 10589.0     9.0 10610.0    10.0 10629.0    10.0 10647.0
GR   7.9 10689.0    13.0 10709.0    25.8 10730.0    30.7 10749.0    34.2 10752.0
GR  38.1 10770.0    46.9 10782.0    52.2 10791.0    59.1 10800.0    59.1 10849.0
GR  59.1 10897.0    64.1 13897.0    84.1 13899.0
X1 78.20     38.   10216   10781    2112    2112    2112
X3    10
GR  83.2  7048.0    63.2  7050.0    58.2 10050.0    58.2 10100.0    59.4 10150.0
GR  59.2 10199.0    58.2 10216.0    52.4 10230.0    48.5 10250.0    40.3 10279.0
GR  35.6 10310.0    33.9 10319.0    27.0 10339.0    21.0 10359.0    17.0 10379.0
GR  11.8 10400.0     9.1 10418.0     4.9 10458.0     -.9 10499.0    -2.1 10519.0
GR  -7.0 10538.0    -9.0 10558.0    -8.1 10578.0   -15.2 10599.0    -8.1 10618.0
GR   2.9 10638.0    12.0 10658.0    22.9 10678.0    31.0 10697.0    34.2 10713.0
GR  37.8 10721.0    45.1 10754.0    53.1 10770.0    61.3 10781.0    61.3 10798.0
GR  61.3 10841.0    66.3 13841.0    86.3 13843.0
X1 78.40     38.   10111   10694    1056    1056    1056
X3    10
GR  83.1  7002.0    63.1  7004.0    58.1 10004.0    58.1 10051.0    58.1 10111.0
GR  46.4 10131.0    38.0 10161.0    28.7 10181.0    15.9 10221.0    12.7 10241.0
GR  10.8 10262.0     4.8 10282.0     2.9 10300.0     2.8 10341.0     4.1 10361.0
GR   2.9 10381.0     2.9 10400.0     7.0 10479.0     6.9 10520.0    11.0 10560.0
GR  15.0 10580.0    20.1 10600.0    34.3 10639.0    37.6 10644.0    43.4 10649.0
GR  45.1 10652.0    49.5 10668.0    51.1 10682.0    53.4 10694.0    53.4 10702.0
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GR  53.4 10748.0    53.4 10798.0    55.4 10809.0    57.1 10843.0    56.7 10857.0
GR  57.9 10887.0    62.9 13887.0    82.9 13889.0
X1 78.60     38.   10151   10684    1056    1056    1056
X3    10
GR  84.4  7050.0    64.4  7052.0    59.4 10052.0    59.4 10102.0    59.4 10151.0
GR  52.6 10168.0    46.2 10183.0    43.6 10192.0    34.2 10201.0    24.3 10216.0
GR  20.4 10221.0     6.9 10241.0     2.1 10261.0     0.0 10281.0    -8.0 10300.0
GR  -8.1 10320.0    -6.1 10341.0    -1.0 10360.0     5.0 10399.0     6.9 10420.0
GR  14.0 10479.0    14.0 10499.0    18.0 10579.0    23.2 10599.0    32.1 10619.0
GR  34.3 10627.0    39.6 10634.0    37.5 10640.0    39.4 10655.0    42.7 10660.0
GR  48.6 10684.0    50.4 10749.0    52.8 10769.0    52.2 10798.0    48.8 10839.0
GR  53.4 10897.0    58.4 13897.0    78.4 13899.0
X1 78.80     41.   10049   10593    1056    1056    1056
X3    10
GR  85.9  7047.0    65.9  7049.0    60.9 10049.0    53.6 10062.0    50.8 10072.0
GR  38.5 10088.0    37.3 10100.0    34.5 10108.0    28.0 10120.0    12.0 10140.0
GR   5.0 10160.0     .1 10179.0    -4.0 10199.0    -6.0 10220.0    -2.1 10240.0
GR   1.0 10260.0     3.0 10280.0     4.1 10299.0     4.0 10319.0     6.0 10359.0
GR   6.0 10399.0     8.0 10419.0    14.0 10439.0    16.0 10459.0    15.0 10479.0
GR  22.8 10498.0    34.4 10529.0    38.0 10537.0    44.1 10549.0    50.6 10569.0
GR  54.7 10584.0    59.1 10593.0    59.1 10649.0    59.1 10699.0    59.1 10748.0
GR  59.1 10797.0    59.1 10848.0    59.1 10869.0    59.1 10899.0    64.1 13899.0
GR  84.1 13901.0
X1 79.00     34.   10201   10805    1056    1056    1056
X3    10
GR  78.4  7001.0    58.4  7003.0    53.4 10003.0    52.7 10052.0    49.6 10102.0
GR  49.6 10151.0    49.6 10201.0    47.0 10251.0    40.8 10301.0    34.2 10325.0
GR  27.1 10341.0    21.9 10360.0    15.7 10401.0    13.7 10420.0     9.5 10441.0
GR   6.7 10460.0     6.8 10481.0     2.8 10520.0     1.7 10541.0     1.7 10561.0
GR   -.3 10600.0    -2.3 10620.0    -5.2 10639.0    -6.2 10658.0    -6.2 10680.0
GR  -4.2 10701.0     8.7 10724.0    15.9 10740.0    23.6 10759.0    62.5 10805.0
GR  62.5 10835.0    62.5 10902.0    67.5 13902.0    87.5 13904.0
X1 79.20     48.   10102   10847    1056    1056    1056
X3    10
GR  78.4  7016.0    58.4  7018.0    53.4 10018.0    46.6 10048.0    47.5 10064.0
GR  43.6 10102.0    35.5 10121.0    34.4 10130.0    30.2 10142.0    20.5 10151.0
GR  10.0 10162.0    -4.8 10202.0   -10.7 10221.0   -14.7 10241.0   -24.7 10261.0
GR -32.6 10280.0   -36.7 10301.0   -38.8 10321.0   -39.5 10339.0   -39.6 10381.0
GR -36.6 10440.0   -35.7 10461.0   -30.6 10481.0   -19.0 10496.0   -14.7 10501.0
GR  -7.1 10522.0     -.8 10540.0     4.0 10561.0     7.0 10580.0    12.1 10600.0
GR  19.0 10621.0    23.9 10640.0    25.9 10660.0    25.0 10680.0    17.0 10721.0
GR  16.1 10741.0    20.1 10761.0    26.9 10780.0    31.4 10800.0    35.6 10808.0
GR  40.1 10819.0    44.9 10847.0    45.1 10869.0    48.3 10887.0    52.3 10921.0
GR  60.4 10947.0    65.4 13947.0    85.4 13949.0
X1 79.60     38.   10030   10579    2112    2112    2112
X3    10
GR  85.9  7001.0    65.9  7003.0    60.9 10003.0    60.9 10030.0    56.7 10036.0
GR  55.4 10051.0    55.4 10064.0    47.7 10072.0    43.2 10094.0    40.6 10100.0
GR  35.2 10107.0    34.3 10111.0    29.9 10120.0    16.9 10140.0     5.8 10180.0
GR   3.9 10199.0    -2.2 10219.0    -4.1 10239.0    -4.2 10259.0    -3.3 10279.0
GR  -3.1 10319.0    -1.2 10340.0     1.9 10399.0     2.0 10418.0    14.9 10458.0
GR  31.5 10499.0    34.4 10505.0    40.9 10509.0    50.4 10528.0    52.6 10568.0
GR  57.2 10579.0    58.3 10648.0    57.2 10699.0    57.2 10748.0    57.2 10848.0
GR  57.2 10875.0    62.2 13875.0    82.2 13877.0
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X1 79.80     38.   10274   10753    1056    1056    1056
X3    10
GR  86.5  7001.0    66.5  7003.0    61.5 10003.0    61.3 10041.0    60.5 10051.0
GR  60.7 10101.0    61.3 10150.0    60.9 10181.0    56.6 10207.0    56.4 10251.0
GR  56.0 10274.0    53.8 10283.0    42.5 10301.0    34.2 10311.0    15.1 10350.0
GR   7.1 10370.0     1.1 10390.0     0.0 10410.0     1.2 10430.0     1.2 10490.0
GR   2.1 10510.0     2.2 10569.0     1.3 10589.0     5.2 10610.0     9.3 10649.0
GR  14.3 10669.0    23.8 10685.0    31.7 10700.0    34.7 10706.0    38.9 10712.0
GR  44.4 10717.0    50.4 10728.0    60.1 10753.0    60.1 10799.0    60.1 10849.0
GR  60.1 10917.0    65.1 13917.0    85.1 13919.0
X1 80.00     31.   10126   10589    1056    1056    1056
X3    10
GR  82.1  7003.0    62.1  7005.0    57.1 10005.0    57.1 10052.0    57.2 10103.0
GR  57.1 10126.0    52.0 10139.0    48.9 10142.0    34.2 10159.0    28.0 10162.0
GR  17.8 10182.0    13.9 10202.0     6.9 10221.0     1.8 10241.0    -1.1 10262.0
GR  -3.2 10302.0    -3.1 10401.0    -1.1 10421.0    -2.1 10441.0     4.0 10460.0
GR  16.0 10481.0    26.1 10501.0    29.0 10520.0    34.4 10544.0    42.1 10560.0
GR  47.8 10576.0    54.5 10589.0    59.6 10635.0    59.2 10727.0    64.2 13727.0
GR  84.2 13729.0
X1 80.20     38.   10233   10695    1056    1056    1056
X3    10
GR  87.3  7005.0    67.3  7007.0    62.3 10007.0    62.5 10017.0    56.5 10052.0
GR  54.5 10101.0    56.3 10151.0    54.3 10201.0    54.2 10233.0    47.7 10241.0
GR  38.9 10255.0    34.4 10260.0    26.9 10261.0    16.0 10281.0    -4.2 10301.0
GR  -6.1 10320.0    -6.1 10340.0    -8.1 10360.0    -8.0 10380.0    -6.0 10400.0
GR  -6.0 10420.0    -3.0 10439.0    -1.0 10480.0     5.0 10519.0     5.9 10539.0
GR   9.9 10559.0    16.0 10579.0    19.9 10599.0    25.0 10619.0    34.8 10647.0
GR  48.2 10679.0    57.1 10695.0    57.1 10720.0    57.1 10744.0    57.1 10785.0
GR  57.1 10798.0    62.1 13798.0    82.1 13800.0
X1 80.40     38.   10159   10658    1056    1056    1056
X3    10
GR  86.6  7012.0    66.6  7014.0    61.6 10014.0    60.3 10024.0    60.6 10039.0
GR  59.6 10050.0    60.4 10099.0    58.6 10121.0    53.5 10159.0    47.2 10163.0
GR  45.4 10176.0    34.3 10196.0    21.9 10209.0    12.0 10229.0     3.8 10250.0
GR  -1.3 10269.0    -4.1 10289.0    -8.1 10309.0    -9.2 10329.0    -9.2 10349.0
GR  -6.1 10369.0    -4.2 10389.0    -3.1 10408.0    -3.1 10429.0     2.8 10469.0
GR   3.9 10489.0     7.0 10508.0    14.9 10548.0    22.0 10568.0    30.9 10588.0
GR  40.0 10603.0    44.5 10614.0    48.9 10642.0    56.1 10658.0    56.1 10698.0
GR  56.1 10742.0    61.1 13742.0    81.1 13744.0
X1 80.60     38.   10195   10694    1056    1056    1056
X3    10
GR  84.6  6999.0    64.6  7001.0    59.6 10001.0    60.4 10052.0    63.6 10102.0
GR  63.6 10118.0    63.3 10142.0    57.6 10161.0    52.0 10195.0    42.2 10202.0
GR  41.7 10222.0    43.1 10239.0    34.4 10247.0    22.0 10261.0    11.0 10281.0
GR   3.9 10301.0     1.9 10321.0    -5.1 10341.0    -4.9 10360.0    -6.0 10380.0
GR  -4.0 10400.0    -3.1 10420.0     1.0 10460.0     4.1 10520.0     3.9 10540.0
GR   6.0 10559.0     5.9 10580.0    16.1 10600.0    20.9 10619.0    27.9 10639.0
GR  34.2 10650.0    45.4 10663.0    55.4 10694.0    58.2 10725.0    59.2 10750.0
GR  57.5 10799.0    62.5 13799.0    82.5 13801.0
X1 80.80     36.   10145   10661    1056    1056    1056
X3    10
GR  85.3  7002.0    65.3  7004.0    60.3 10004.0    59.6 10018.0    59.3 10037.0
GR  59.3 10061.0    59.3 10102.0    59.3 10145.0    55.8 10160.0    46.0 10181.0
GR  37.9 10190.0    34.3 10195.0    32.6 10201.0    18.9 10221.0    13.0 10241.0
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GR    8.8 10261.0     4.9 10301.0     1.0 10380.0     1.0 10440.0     2.0 10459.0
GR    1.0 10480.0     1.0 10499.0     0.0 10519.0     1.1 10539.0     4.0 10559.0
GR    9.1 10579.0    34.4 10608.0    50.6 10638.0    54.4 10648.0    62.5 10661.0
GR   63.7 10698.0    63.4 10716.0    62.5 10738.0    62.5 10763.0    67.5 13763.0
GR   87.5 13765.0
X1 81.20     34.   10152   10688    2112    2112    2112
X3    10
GR   83.3  7000.0    63.3  7002.0    58.3 10002.0    54.3 10052.0    54.2 10102.0
GR   54.2 10131.0    54.2 10152.0    42.6 10190.0    40.7 10201.0    34.5 10222.0
GR   16.0 10261.0     6.0 10281.0     0.0 10301.0    -3.9 10321.0    -5.0 10341.0
GR   -6.8 10361.0   -12.9 10400.0   -16.0 10460.0   -13.7 10480.0   -11.0 10500.0
GR    1.2 10519.0    12.3 10534.0    16.4 10540.0    25.1 10559.0    34.5 10564.0
GR   37.7 10570.0    37.6 10578.0    38.6 10614.0    41.3 10642.0    53.8 10660.0
GR   64.3 10688.0    64.5 10795.0    69.5 13795.0    89.5 13797.0
X1 81.40     43.   10155   10768    1056    1056    1056
X3    10
GR   80.5  7000.0    60.5  7002.0    55.5 10002.0    55.7 10052.0    55.3 10102.0
GR   54.6 10141.0    53.4 10155.0    46.4 10171.0    43.7 10201.0    34.5 10219.0
GR   31.0 10220.0    26.0 10241.0    23.0 10261.0    12.1 10280.0     3.8 10300.0
GR    1.9 10320.0      .9 10341.0    -1.2 10360.0    -2.1 10380.0    -6.0 10420.0
GR   -8.1 10439.0    -7.1 10460.0    -3.0 10479.0    -2.0 10499.0    -3.3 10519.0
GR   -3.1 10539.0     2.9 10579.0    13.9 10599.0    20.1 10619.0    24.9 10638.0
GR   28.9 10658.0    34.3 10661.0    39.3 10677.0    40.3 10688.0    45.0 10713.0
GR   48.4 10748.0    51.5 10768.0    51.5 10795.0    64.6 10838.0    65.6 10889.0
GR   68.5 10901.0    73.5 13901.0    93.5 13903.0
X1 82.00     35.   10170   10760    3168    3168    3168
X3    10
GR   86.8  7063.0    66.8  7065.0    61.8 10065.0    61.8 10150.0    61.8 10170.0
GR   54.4 10200.0    51.6 10250.0    37.6 10276.0    34.2 10280.0    24.0 10299.0
GR   18.9 10319.0    12.9 10339.0     9.9 10359.0     8.9 10379.0     4.9 10419.0
GR    4.9 10440.0     4.0 10459.0     4.1 10519.0     5.0 10539.0     7.0 10559.0
GR   12.1 10579.0    12.1 10598.0     9.0 10619.0     5.0 10639.0    14.3 10658.0
GR   22.1 10678.0    25.0 10698.0    34.6 10728.0    46.7 10737.0    54.0 10749.0
GR   59.5 10760.0    59.5 10798.0    59.5 10848.0    64.5 13848.0    84.5 13850.0
X1 82.20     34.   10109   10571    1056    1056    1056
X3    10
GR   76.8  7000.0    56.8  7002.0    51.8 10002.0    53.3 10053.0    51.8 10102.0
GR   51.8 10108.0    51.8 10109.0    44.9 10123.0    39.8 10132.0    34.6 10145.0
GR   24.2 10162.0    16.1 10182.0    10.0 10201.0     8.1 10221.0     7.1 10241.0
GR    5.1 10261.0     2.2 10281.0    -5.1 10301.0    -7.1 10320.0   -10.1 10380.0
GR -10.1 10420.0    -9.1 10439.0    -2.2 10459.0    17.1 10483.0    31.2 10500.0
GR   37.9 10521.0    44.5 10560.0    54.6 10571.0    55.8 10576.0    57.5 10600.0
GR   57.0 10651.0    57.5 10675.0    62.5 13675.0    82.5 13677.0
X1 82.40     37.   10117   10616    1056    1056    1056
X3    10
GR   81.2  7006.0    61.2  7008.0    56.2 10008.0    56.2 10059.0    56.2 10090.0
GR   56.2 10108.0    56.2 10117.0    50.6 10137.0    48.6 10151.0    39.8 10167.0
GR   34.6 10176.0    30.2 10181.0    21.0 10201.0    16.1 10221.0    14.0 10241.0
GR   13.0 10261.0    10.1 10281.0     9.2 10301.0     3.0 10341.0    -2.1 10361.0
GR   -4.1 10380.0    -1.2 10399.0     3.1 10420.0     6.0 10440.0    10.1 10460.0
GR   13.1 10480.0    18.0 10500.0    21.0 10520.0    25.1 10540.0    34.5 10570.0
GR   50.1 10598.0    54.6 10613.0    55.9 10616.0    60.5 10655.0    61.9 10696.0
GR   66.9 13696.0    86.9 13698.0
X1 82.60     36.   10069   10601    1056    1056    1056
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X3    10
GR  81.4  7004.0    61.4  7006.0    56.4 10006.0    56.4 10029.0    58.4 10042.0
GR  57.1 10052.0    56.4 10069.0    50.0 10091.0    37.5 10121.0    34.4 10126.0
GR  23.0 10141.0    19.0 10161.0    16.0 10181.0    14.1 10201.0    14.0 10220.0
GR  11.9 10240.0    11.0 10260.0     8.0 10280.0     6.1 10300.0     4.9 10320.0
GR   4.9 10340.0     3.9 10360.0     4.0 10399.0     6.9 10458.0     6.9 10481.0
GR   9.0 10519.0    24.2 10547.0    31.0 10559.0    34.1 10569.0    43.9 10590.0
GR  49.7 10601.0    53.5 10624.0    56.4 10699.0    55.2 10724.0    60.2 13724.0
GR  80.2 13726.0
X1 82.70     39.   10077   10640     528     528     528
X3    10
GR  83.2  6999.0    63.2  7001.0    58.2 10001.0    58.2 10023.0    58.2 10072.0
GR  58.2 10077.0    42.6 10085.0    38.6 10101.0    34.4 10123.0    28.0 10142.0
GR  22.1 10161.0    19.0 10181.0    20.1 10201.0    17.1 10221.0    15.9 10241.0
GR  16.0 10261.0    13.1 10280.0    13.1 10301.0     8.0 10321.0     2.1 10380.0
GR   1.1 10401.0    -1.0 10420.0     -.9 10440.0     1.1 10460.0     3.2 10500.0
GR   9.0 10519.0    17.6 10541.0    26.3 10559.0    31.1 10579.0    39.1 10588.0
GR  45.6 10600.0    50.6 10614.0    55.8 10639.0    55.8 10640.0    55.8 10649.0
GR  55.8 10699.0    55.8 10749.0    60.8 13749.0    80.8 13751.0
X1 82.90     32.   10032   10590    1056    1056    1056
X3    10
GR  85.4  7030.0    65.4  7032.0    60.4 10032.0    54.3 10041.0    43.0 10061.0
GR  34.6 10074.0    25.0 10081.0    13.1 10101.0     4.1 10121.0     2.1 10161.0
GR    .2 10181.0      .1 10221.0     2.2 10241.0     2.0 10281.0     6.2 10320.0
GR   9.2 10380.0    11.1 10400.0    14.3 10420.0    17.1 10440.0    19.2 10460.0
GR  24.1 10480.0    31.2 10500.0    34.5 10513.0    39.7 10525.0    44.4 10540.0
GR  48.6 10580.0    50.6 10590.0    51.5 10620.0    51.5 10649.0    52.6 10700.0
GR  57.6 13700.0    77.6 13702.0
X1 83.00     40.   10064   10752     528     528     528
X3    10
GR  86.9  6999.0    66.9  7001.0    61.9 10001.0    61.9 10034.0    61.9 10053.0
GR  61.9 10064.0    51.6 10078.0    41.9 10103.0    34.3 10127.0    28.0 10143.0
GR  23.0 10163.0    17.8 10183.0    11.0 10203.0     6.9 10223.0     3.1 10263.0
GR  -1.1 10283.0      .9 10303.0     4.0 10323.0     5.9 10362.0     9.9 10402.0
GR  10.9 10423.0    14.9 10462.0    18.1 10522.0    19.0 10542.0    22.0 10563.0
GR  28.0 10582.0    31.0 10602.0    34.3 10609.0    40.5 10635.0    44.9 10652.0
GR  45.0 10663.0    37.1 10702.0    37.5 10712.0    47.6 10732.0    53.5 10752.0
GR  54.5 10762.0    54.4 10851.0    53.5 10901.0    58.5 13901.0    78.5 13903.0
X1 83.20     36.   10120   10698    1056    1056    1056
X3    10
GR  87.4  7000.0    67.4  7002.0    62.4 10002.0    61.3 10017.0    62.3 10030.0
GR  62.0 10100.0    61.3 10120.0    53.4 10135.0    49.4 10151.0    48.6 10167.0
GR  42.3 10180.0    34.2 10191.0    29.0 10199.0    22.9 10220.0    13.0 10239.0
GR   5.9 10260.0     -.1 10299.0    -2.1 10320.0    -6.1 10399.0    -6.2 10438.0
GR  -4.0 10458.0     2.0 10498.0     3.9 10518.0     7.2 10538.0    10.9 10558.0
GR  14.1 10578.0    34.3 10634.0    38.4 10648.0    41.7 10650.0    44.7 10673.0
GR  53.6 10687.0    57.7 10698.0    57.7 10748.0    57.7 10797.0    62.7 13797.0
GR  82.7 13799.0
X1 83.40     42.   10319   10824    1056    1056    1056
X3    10
GR  80.7  7003.0    60.7  7005.0    55.7 10005.0    55.7 10043.0    55.7 10078.0
GR  55.7 10103.0    55.7 10153.0    55.7 10179.0    55.7 10203.0    55.7 10222.0
GR  55.7 10239.0    55.7 10302.0    55.7 10319.0    49.7 10332.0    42.8 10352.0
GR  37.5 10362.0    28.0 10381.0    21.1 10401.0    18.1 10461.0    16.1 10482.0
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GR  15.1 10501.0     5.2 10542.0    -3.0 10561.0   -10.9 10581.0   -16.9 10601.0
GR -26.1 10621.0   -16.9 10641.0   -14.0 10660.0    -7.0 10681.0     6.1 10700.0
GR  19.1 10720.0    22.2 10740.0    30.1 10760.0    34.6 10762.0    40.6 10775.0
GR  42.6 10805.0    62.3 10824.0    62.3 10849.0    62.3 10901.0    62.3 10945.0
GR  67.3 13945.0    87.3 13947.0
X1 83.80     35.   10084   10633    2112    2112    2112
X3    10
GR  87.7  7082.0    67.7  7084.0    62.7 10084.0    51.3 10100.0    37.5 10120.0
GR  34.5 10126.0    25.0 10140.0    16.0 10160.0    10.2 10179.0     7.9 10199.0
GR    .9 10219.0    -3.0 10239.0    -8.0 10259.0   -10.0 10279.0    -7.9 10298.0
GR  -6.1 10319.0    -2.0 10338.0     1.1 10359.0     4.1 10378.0     5.1 10398.0
GR   9.1 10418.0    12.0 10438.0    20.1 10478.0    23.9 10498.0    34.6 10533.0
GR  45.1 10575.0    56.8 10633.0    57.8 10698.0    57.9 10748.0    56.8 10798.0
GR  56.8 10847.0    56.8 10901.0    56.8 10925.0    61.8 13925.0    81.8 13927.0
X1 84.10     43.   10085   10798    1584    1584    1584
X3    10
GR  84.3  6999.0    64.3  7001.0    59.3 10001.0    59.5 10051.0    59.3 10085.0
GR  56.1 10102.0    51.6 10136.0    48.0 10155.0    41.5 10175.0    34.3 10187.0
GR  27.8 10201.0    24.9 10221.0    17.9 10241.0    10.0 10260.0     4.0 10280.0
GR  -1.0 10300.0    -4.0 10320.0    -5.2 10340.0    -7.9 10360.0    -8.0 10380.0
GR  -8.9 10399.0    -5.8 10420.0    -1.0 10439.0     3.1 10459.0     6.0 10480.0
GR   7.0 10499.0     7.1 10579.0     8.1 10598.0     8.0 10618.0     9.1 10639.0
GR  14.1 10659.0    12.0 10678.0    20.0 10698.0    30.1 10717.0    34.5 10732.0
GR  41.1 10747.0    51.1 10773.0    53.9 10788.0    59.6 10798.0    59.7 10847.0
GR  59.6 10901.0    64.6 13901.0    84.6 13903.0
X1 84.30     35.   10152   10786    1056    1056    1056
X3    10
GR  80.1  7004.0    60.1  7006.0    55.1 10006.0    57.3 10027.0    55.7 10052.0
GR  49.9 10102.0    49.4 10152.0    48.8 10166.0    46.9 10201.0    42.1 10270.0
GR  40.1 10281.0    34.6 10297.0    30.2 10301.0    25.4 10321.0    20.2 10340.0
GR  14.2 10380.0     9.2 10480.0     9.2 10500.0     7.2 10519.0     7.1 10559.0
GR   5.2 10580.0     4.3 10599.0     4.2 10619.0     7.3 10639.0     9.3 10659.0
GR  23.2 10700.0    27.2 10719.0    37.8 10743.0    45.5 10759.0    55.7 10781.0
GR  60.4 10786.0    60.4 10899.0    60.4 10940.0    65.4 13940.0    85.4 13942.0
X1 84.40     38.   10202   10815     528     528     528
X3    10
GR  84.6  7002.0    64.6  7004.0    59.6 10004.0    56.8 10053.0    58.5 10088.0
GR  54.9 10112.0    54.9 10152.0    55.3 10176.0    54.9 10202.0    48.1 10252.0
GR  47.0 10267.0    40.3 10281.0    34.8 10287.0    26.3 10302.0    21.3 10322.0
GR  15.5 10362.0    13.4 10382.0    10.5 10441.0    10.5 10460.0     8.4 10481.0
GR   8.6 10500.0     7.6 10521.0     7.6 10540.0     6.6 10560.0     6.6 10601.0
GR   4.7 10621.0     4.7 10661.0     5.7 10680.0     9.8 10700.0    14.7 10720.0
GR  24.4 10739.0    34.3 10755.0    45.8 10770.0    59.9 10815.0    59.9 10849.0
GR  59.9 10902.0    64.9 13902.0    84.9 13904.0
X1 84.60     39.   10282   10761    1056    1056    1056
X3    10
GR  80.0  7005.0    60.0  7007.0    55.0 10007.0    58.8 10052.0    56.7 10102.0
GR  54.7 10137.0    55.1 10169.0    51.8 10202.0    48.4 10282.0    38.3 10301.0
GR  27.0 10320.0    20.9 10340.0    18.1 10360.0    16.1 10380.0    12.9 10400.0
GR   9.9 10421.0     7.9 10439.0     6.9 10460.0     4.0 10478.0     1.9 10499.0
GR    .9 10519.0    -5.2 10579.0    -6.1 10598.0    -5.2 10618.0    -2.2 10638.0
GR   1.9 10657.0     9.8 10678.0    20.0 10698.0    30.1 10719.0    33.9 10723.0
GR  39.2 10730.0    48.8 10748.0    51.5 10755.0    59.0 10761.0    59.5 10798.0
GR  59.3 10848.0    59.0 10901.0    64.0 13901.0    84.0 13903.0
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X1 84.80     42.   10127   10676    1056    1056    1056
X3    10
GR  84.6  7001.0    64.6  7003.0    59.6 10003.0    59.6 10032.0    59.6 10065.0
GR  60.3 10102.0    59.6 10127.0    54.6 10144.0    45.3 10162.0    34.4 10178.0
GR  32.9 10182.0    28.9 10222.0    25.0 10241.0    22.9 10261.0    17.0 10301.0
GR  10.8 10340.0     8.9 10361.0     5.8 10380.0     4.0 10400.0      .9 10421.0
GR    .7 10460.0     2.0 10480.0     5.5 10504.0     8.9 10520.0     7.9 10540.0
GR   9.9 10559.0    12.9 10580.0    21.9 10600.0    29.8 10619.0    34.0 10630.0
GR  37.3 10644.0    45.3 10661.0    45.6 10671.0    48.1 10676.0    61.5 10770.0
GR  64.4 10801.0    68.5 10870.0    70.2 10902.0    73.7 10927.0    74.6 10936.0
GR  79.6 13936.0    99.6 13938.0
X1 85.00     42.   10158   10736    1056    1056    1056
X3    10
GR  86.5  6951.0    66.5  6953.0    61.5  9953.0    61.5 10003.0    61.5 10053.0
GR  61.8 10153.0    61.5 10158.0    51.4 10168.0    34.4 10199.0    30.2 10201.0
GR  24.2 10221.0    17.3 10241.0    14.3 10261.0     9.3 10281.0     5.5 10301.0
GR   4.4 10321.0     4.3 10341.0     6.4 10381.0     5.4 10401.0     7.3 10421.0
GR  12.3 10441.0    14.2 10461.0    16.2 10480.0    20.2 10561.0    23.9 10581.0
GR  26.3 10600.0    27.0 10620.0    34.1 10657.0    38.1 10671.0    47.6 10736.0
GR  47.6 10758.0    47.6 10772.0    49.4 10809.0    52.1 10840.0    54.8 10886.0
GR  55.2 10900.0    54.0 10950.0    56.4 10983.0    57.1 11000.0    52.7 11049.0
GR  57.7 14049.0    77.7 14051.0
X1 85.20     41.   10074   10685    1056    1056    1056
X3    10
GR  85.5  7001.0    65.5  7003.0    60.5 10003.0    60.7 10053.0    60.4 10074.0
GR  50.2 10083.0    39.9 10102.0    34.3 10110.0    29.3 10122.0    23.1 10141.0
GR  13.8 10161.0     9.0 10181.0     7.1 10201.0     7.1 10221.0     7.9 10241.0
GR   6.0 10281.0     7.0 10300.0     9.0 10320.0    11.1 10361.0    14.9 10400.0
GR  17.0 10440.0    19.0 10460.0    18.9 10480.0    20.9 10520.0    24.9 10540.0
GR  26.9 10560.0    30.9 10579.0    33.0 10600.0    34.0 10603.0    36.3 10621.0
GR  41.7 10640.0    43.6 10652.0    50.2 10685.0    51.5 10700.0    55.1 10751.0
GR  58.8 10832.0    59.3 10851.0    59.0 10882.0    56.2 10901.0    61.2 13901.0
GR  81.2 13903.0
X1 85.50     41.   10140   10719    1584    1584    1584
X3    10
GR  87.2  7005.0    67.2  7007.0    62.2 10007.0    61.7 10042.0    57.3 10061.0
GR  43.9 10084.0    41.4 10100.0    40.7 10140.0    38.6 10156.0    34.2 10169.0
GR  32.1 10180.0    18.1 10219.0    11.0 10240.0     2.1 10260.0    -2.9 10279.0
GR  -7.1 10299.0   -12.0 10319.0   -16.0 10339.0   -14.0 10358.0   -17.1 10379.0
GR -19.2 10399.0   -19.2 10438.0   -17.9 10458.0   -18.2 10478.0   -13.1 10498.0
GR  -7.1 10518.0    -4.1 10539.0     1.9 10598.0     5.0 10618.0    11.0 10638.0
GR  24.9 10678.0    29.2 10698.0    37.9 10704.0    44.4 10719.0    45.4 10748.0
GR  50.3 10797.0    54.6 10833.0    57.5 10848.0    59.5 10866.0    64.5 13866.0
GR  84.5 13868.0
X1 86.80     44.   10119   10674    6864    6864    6864
X3    10
GR  90.0  6999.0    70.0  7001.0    65.0 10001.0    65.6 10007.0    63.7 10018.0
GR  61.5 10046.0    61.8 10057.0    62.8 10075.0    58.8 10083.0    54.6 10099.0
GR  51.7 10119.0    43.4 10139.0    35.7 10154.0    31.1 10160.0    21.1 10179.0
GR  10.2 10199.0     4.0 10219.0     2.0 10239.0     1.0 10259.0     2.1 10279.0
GR   2.1 10299.0     3.9 10318.0     6.0 10358.0     9.0 10378.0    12.1 10439.0
GR  12.0 10458.0    14.0 10478.0    14.1 10497.0    19.9 10527.0    29.1 10579.0
GR  30.0 10599.0    32.1 10618.0    38.5 10651.0    44.6 10674.0    44.6 10685.0
GR  47.6 10697.0    51.1 10747.0    53.9 10778.0    53.7 10798.0    55.3 10881.0
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GR  55.5 10899.0    56.7 10922.0    61.7 13922.0    81.7 13924.0
X1 86.90     44.   10110   10694     528     528     528
X3    10
GR  87.3  7001.0    67.3  7003.0    62.3 10003.0    61.6 10017.0    61.7 10034.0
GR  61.5 10054.0    61.5 10089.0    61.5 10100.0    62.2 10109.0    61.5 10110.0
GR  52.1 10132.0    50.0 10142.0    39.7 10161.0    38.2 10180.0    36.0 10196.0
GR  33.5 10198.0    25.1 10220.0     8.1 10238.0    -4.7 10260.0    -9.9 10278.0
GR -11.9 10299.0   -10.1 10339.0    -5.7 10359.0    -2.7 10379.0     2.0 10399.0
GR   4.9 10418.0     7.0 10440.0     7.9 10457.0    10.0 10479.0    11.8 10519.0
GR  11.9 10539.0    17.1 10553.0    25.0 10578.0    30.1 10599.0    33.5 10615.0
GR  41.9 10640.0    46.2 10651.0    58.0 10694.0    58.0 10744.0    58.0 10773.0
GR  58.3 10799.0    58.6 10845.0    63.6 13845.0    83.6 13847.0
X1 87.10     39. 10063.6 10610.4    1056    1056    1056
X3    10
GR  87.3  6925.5    67.3  6927.5    62.3  9927.5    62.5  9945.4    63.6  9959.9
GR  62.6  9969.7    64.3  9978.9    64.4  9997.3    62.3 10009.9    63.5 10028.0
GR  62.5 10048.7    62.3 10063.6    42.3 10083.6    39.3 10101.1    35.3 10117.5
GR  34.6 10121.9    22.0 10142.3    16.0 10161.9     8.6 10182.4     3.2 10221.0
GR   1.1 10240.7      .2 10261.4     1.9 10300.9     4.1 10315.6     7.9 10401.0
GR  10.0 10421.1    10.0 10460.9    12.1 10481.0    19.8 10501.3    25.4 10521.4
GR  34.6 10538.9    35.2 10539.4    41.0 10559.0    48.6 10571.4    59.2 10610.4
GR  59.2 10651.7    59.2 10701.3    64.2 13701.3    84.2 13703.3
X1 87.30     42.   10248   10781    1056    1056    1056
X3    10
GR  87.8  6997.0    67.8  6999.0    62.8  9999.0    58.7 10012.0    55.4 10047.0
GR  52.1 10099.0    52.1 10149.0    52.1 10198.0    52.1 10248.0    50.7 10256.0
GR  45.1 10272.0    44.2 10278.0    40.7 10299.0    35.6 10313.0    35.1 10318.0
GR  28.1 10339.0    29.0 10358.0    24.8 10378.0    17.2 10418.0    18.2 10438.0
GR  15.0 10458.0    16.2 10478.0    15.2 10498.0    12.4 10518.0    11.1 10539.0
GR  12.2 10559.0    11.1 10579.0     9.9 10598.0     8.1 10619.0     6.3 10659.0
GR   6.1 10679.0     8.1 10701.0    12.0 10719.0    19.7 10740.0    28.7 10760.0
GR  35.6 10763.0    47.9 10773.0    57.2 10781.0    62.1 10851.0    60.9 10900.0
GR  65.9 13900.0    85.9 13902.0
X1 87.60     35.   10073   10678    1584    1584    1584
X3    10
GR  83.8  6969.0    63.8  6971.0    58.8  9971.0    58.8  9979.0    59.3 10022.0
GR  59.2 10063.0    58.8 10073.0    54.8 10098.0    49.3 10134.0    43.2 10156.0
GR  37.9 10167.0    35.5 10169.0    31.1 10177.0    23.3 10198.0    21.1 10237.0
GR  19.0 10259.0    20.1 10278.0    20.1 10338.0    18.1 10377.0    16.1 10398.0
GR  15.1 10417.0    15.2 10438.0    13.1 10479.0    13.0 10499.0     9.2 10539.0
GR   6.2 10560.0     5.4 10578.0     9.1 10599.0    24.7 10638.0    43.3 10647.0
GR  59.5 10678.0    60.2 10698.0    60.0 10798.0    65.0 13798.0    85.0 13800.0
X1 87.80     36.   10274   10779    1056    1056    1056
X3    10
GR  81.3  7157.0    61.3  7159.0    56.3 10159.0    56.3 10180.0    56.3 10219.0
GR  56.3 10248.0    56.3 10274.0    50.1 10299.0    46.2 10319.0    36.5 10339.0
GR  35.3 10343.0    28.1 10358.0    12.0 10399.0     9.0 10419.0     6.9 10439.0
GR   7.1 10479.0     4.8 10518.0      .7 10538.0    -5.1 10560.0    -5.1 10579.0
GR  -3.2 10599.0    -3.1 10619.0    -4.2 10639.0     -.4 10658.0     5.5 10677.0
GR  17.9 10710.0    29.9 10737.0    35.2 10742.0    43.0 10759.0    56.1 10776.0
GR  60.5 10779.0    60.6 10797.0    60.5 10848.0    60.5 10897.0    65.5 13897.0
GR  85.5 13899.0
X1 88.70     44.   10245   10757    4752    4752    4752
X3    10
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GR  86.5  7045.0    66.5  7047.0    61.5 10047.0    61.9 10060.0    60.2 10067.0
GR  60.4 10075.0    62.8 10087.0    63.2 10099.0    61.7 10117.0    60.1 10124.0
GR  60.1 10131.0    61.5 10139.0    62.2 10174.0    57.5 10198.0    55.5 10205.0
GR  46.3 10230.0    46.3 10245.0    38.6 10271.0    38.0 10280.0    28.9 10299.0
GR  11.2 10320.0     5.1 10340.0    10.8 10360.0    -2.0 10379.0      .1 10419.0
GR   1.9 10439.0     5.0 10479.0     6.0 10500.0     6.0 10519.0     7.0 10540.0
GR   8.9 10560.0     9.7 10580.0    14.0 10618.0    14.5 10639.0    23.7 10660.0
GR  29.7 10678.0    38.0 10708.0    49.6 10736.0    56.8 10757.0    59.5 10798.0
GR  57.9 10848.0    59.4 10873.0    64.4 13873.0    84.4 13875.0
X1 88.90     44.   10200   10647    1056    1056    1056
X3    10
GR  87.3  7022.0    67.3  7024.0    62.3 10024.0    62.5 10051.0    61.0 10058.0
GR  61.2 10069.0    63.1 10077.0    63.8 10090.0    63.8 10098.0    63.1 10105.0
GR  61.5 10111.0    61.5 10122.0    62.8 10127.0    62.8 10136.0    60.1 10148.0
GR  55.8 10175.0    50.7 10189.0    48.7 10200.0    40.7 10209.0    35.6 10215.0
GR  29.2 10218.0    24.0 10239.0    17.3 10259.0    13.1 10280.0     8.2 10300.0
GR   6.8 10321.0     4.2 10339.0     2.2 10359.0     3.2 10379.0     3.0 10400.0
GR   5.0 10419.0     7.1 10461.0     5.0 10499.0     4.8 10520.0     7.0 10540.0
GR  13.0 10560.0    18.9 10601.0    35.2 10638.0    42.8 10647.0    45.1 10674.0
GR  60.6 10750.0    59.8 10799.0    64.8 13799.0    84.8 13801.0
X1 89.10     42.   10265   10744    1056    1056    1056
X3    10
GR  86.8  7046.0    66.8  7048.0    61.8 10048.0    62.1 10064.0    61.9 10081.0
GR  63.7 10090.0    64.3 10098.0    64.2 10103.0    63.0 10119.0    61.4 10128.0
GR  62.8 10148.0    63.1 10184.0    57.7 10215.0    44.4 10236.0    41.5 10258.0
GR  41.5 10265.0    35.0 10279.0    30.7 10299.0    27.7 10318.0    19.1 10339.0
GR  10.9 10358.0     5.9 10379.0     5.0 10399.0     5.0 10418.0     7.1 10458.0
GR   7.0 10478.0     6.0 10497.0     6.1 10558.0     5.2 10578.0     7.3 10598.0
GR   8.1 10619.0    12.3 10638.0    20.4 10659.0    27.3 10678.0    32.5 10697.0
GR  35.5 10702.0    59.5 10744.0    59.5 10777.0    59.5 10796.0    59.5 10846.0
GR  64.5 13846.0    84.5 13848.0
X1 89.30     40.   10199   10678    1056    1056    1056
X3    10
GR  87.7  7045.0    67.7  7047.0    62.7 10047.0    63.0 10063.0    61.6 10072.0
GR  63.9 10088.0    64.6 10098.0    63.7 10118.0    61.6 10124.0    61.5 10133.0
GR  63.3 10139.0    63.8 10151.0    58.7 10164.0    57.1 10181.0    50.5 10199.0
GR  37.7 10214.0    37.4 10218.0    35.2 10230.0    25.1 10259.0    13.1 10279.0
GR  10.0 10300.0     5.0 10320.0    -1.1 10360.0    -1.0 10379.0     4.1 10479.0
GR   7.0 10498.0     9.0 10518.0    10.0 10539.0     9.9 10559.0    12.8 10578.0
GR  19.4 10598.0    29.2 10618.0    35.2 10635.0    38.0 10637.0    49.2 10678.0
GR  51.7 10697.0    53.6 10747.0    55.6 10796.0    60.6 13796.0    80.6 13798.0
X1 89.50     31.   10208   10655    1056    1056    1056
X3    10
GR  90.2  6996.0    70.2  6998.0    65.2  9998.0    65.5 10099.0    66.0 10108.0
GR  65.5 10123.0    56.9 10151.0    53.4 10156.0    49.7 10177.0    49.7 10208.0
GR  42.2 10219.0    39.0 10240.0    14.9 10279.0     8.8 10300.0     2.0 10320.0
GR   -.3 10342.0    -2.1 10381.0    -1.0 10400.0     -.9 10419.0     4.0 10460.0
GR   5.0 10481.0     5.1 10502.0     8.4 10546.0    20.1 10599.0    39.8 10635.0
GR  48.5 10655.0    56.7 10698.0    55.7 10749.0    58.2 10798.0    63.2 13798.0
GR  83.2 13800.0
X1 89.70     38.   10358   10798    1056    1056    1056
X3    10
GR  87.7  6795.0    67.7  6797.0    62.7  9797.0    62.5  9847.0    63.7  9948.0
GR  64.8 10179.0    64.4 10222.0    49.5 10268.0    49.8 10291.0    48.7 10298.0
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GR  45.5 10306.0    46.2 10322.0    37.6 10358.0    36.6 10373.0    34.9 10381.0
GR  12.0 10419.0     3.9 10440.0    -1.0 10461.0    -3.1 10480.0    -3.0 10520.0
GR  -1.0 10539.0     -.9 10561.0      .9 10580.0     1.9 10602.0     4.0 10621.0
GR   3.9 10640.0     6.9 10701.0    14.0 10739.0    30.0 10760.0    35.4 10779.0
GR  36.1 10785.0    45.2 10798.0    50.6 10820.0    57.5 10858.0    55.5 10898.0
GR  59.5 10948.0    64.5 13948.0    84.5 13950.0
X1 89.80     37.   10233   10684     528     528     528
X3    10
GR  89.6  6997.0    69.6  6999.0    64.6  9999.0    64.9 10048.0    65.3 10060.0
GR  64.0 10064.0    65.6 10070.0    65.9 10078.0    65.7 10085.0    64.7 10103.0
GR  46.7 10149.0    45.7 10160.0    45.5 10233.0    42.9 10239.0    38.2 10245.0
GR  35.5 10253.0    12.1 10300.0     7.8 10320.0     -.2 10340.0    -3.2 10361.0
GR  -4.1 10380.0    -1.2 10401.0     2.9 10423.0     5.9 10481.0     6.0 10561.0
GR   7.2 10581.0    16.0 10621.0    35.5 10656.0    39.6 10660.0    47.8 10684.0
GR  50.2 10734.0    63.6 10767.0    63.8 10799.0    62.8 10848.0    62.5 10899.0
GR  67.5 13899.0    87.5 13901.0
X1 90.00     30. 10119.7 10609.2    1056    1056    1056
X3    10
GR  89.7  7005.3    69.7  7007.3    64.7 10007.3    64.2 10020.7    60.4 10030.9
GR  58.8 10050.1    58.8 10080.4    59.7 10099.4    58.8 10119.7    53.2 10127.7
GR  46.4 10139.1    38.5 10151.5    29.1 10161.2    22.2 10179.1    11.1 10239.9
GR   7.2 10259.9     5.0 10299.0     5.1 10459.1     8.0 10479.7     9.0 10499.6
GR  16.0 10538.9    32.1 10579.9    35.7 10580.6    45.8 10609.2    52.6 10634.6
GR  60.5 10689.3    60.0 10719.6    59.3 10748.4    64.3 13748.4    84.3 13750.4
NC  .040    .040    .035      .1      .3
X1 90.10     37.   10166   10697     528     528     528
X3    10
GR  88.8  6997.0    68.8  6999.0    63.8  9999.0    60.8 10006.0    56.5 10048.0
GR  56.3 10098.0    56.3 10148.0    56.3 10166.0    47.5 10178.0    38.0 10199.0
GR  32.0 10218.0    24.0 10238.0    17.9 10278.0    13.0 10298.0    10.0 10318.0
GR   8.0 10338.0     5.9 10379.0     5.8 10401.0     4.9 10419.0     4.9 10441.0
GR   4.1 10457.0     4.1 10478.0     2.9 10499.0     5.1 10538.0     8.0 10559.0
GR   9.2 10579.0    17.7 10618.0    32.0 10638.0    44.2 10659.0    53.3 10678.0
GR  63.0 10697.0    63.0 10719.0    63.4 10750.0    63.0 10781.0    63.0 10798.0
GR  67.9 13798.0    87.9 13800.0
X1 90.30     39. 10299.1 10767.4    1056    1056    1056
X3    10
GR  89.7  6996.8    69.7  6998.8    64.7  9998.8    64.5 10006.7    59.5 10020.7
GR  57.5 10049.6    53.5 10098.8    53.7 10150.0    57.4 10189.7    56.7 10198.7
GR  56.5 10248.4    53.5 10299.1    44.4 10310.6    39.9 10325.1    33.0 10340.1
GR  27.7 10361.0    19.8 10379.5    12.7 10419.8     9.9 10440.2     3.9 10501.4
GR   3.8 10541.2     2.0 10560.1     1.9 10580.4    -1.1 10600.3    -3.2 10639.6
GR  -2.1 10661.0     1.4 10682.8     3.3 10700.2    11.3 10720.5    30.2 10739.6
GR  40.7 10767.3    47.7 10767.4    58.5 10799.0    61.2 10828.8    60.7 10848.1
GR  60.5 10898.3    60.6 10947.5    65.6 13947.5    85.6 13949.5
X1 90.50     39.   10274   10797    1056    1056    1056
X3    10
GR  89.4  6946.0    69.4  6948.0    64.4  9948.0    56.0 10010.0    56.8 10048.0
GR  55.6 10098.0    56.2 10147.0    58.5 10188.0    54.5 10218.0    52.1 10248.0
GR  48.3 10274.0    43.0 10289.0    40.4 10299.0    36.0 10308.0    31.0 10328.0
GR  13.9 10369.0    10.9 10389.0     6.7 10429.0     6.8 10449.0     5.8 10470.0
GR   3.9 10487.0     2.8 10508.0      .7 10529.0      .7 10549.0    -1.2 10588.0
GR  -1.2 10608.0    -1.9 10630.0      .9 10650.0    17.0 10688.0    29.7 10708.0
GR  43.4 10767.0    46.1 10797.0    52.0 10807.0    52.3 10822.0    62.3 10846.0
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GR  63.4 10896.0    61.9 10947.0    66.9 13947.0    86.9 13949.0
X1 90.70     45.   10192   10641    1056    1056    1056
X3    10
GR  90.3  6891.0    70.3  6893.0    65.3  9893.0    64.6  9911.0    58.3  9927.0
GR  57.5  9949.0    57.5  9999.0    58.5 10049.0    60.6 10100.0    60.4 10149.0
GR  57.5 10192.0    47.0 10205.0    41.5 10219.0    29.9 10240.0    13.1 10301.0
GR  12.9 10321.0    11.8 10342.0     6.2 10360.0     5.9 10400.0     4.0 10421.0
GR   1.9 10460.0     1.7 10482.0    -1.1 10502.0     -.9 10520.0     6.1 10539.0
GR  15.1 10580.0    36.1 10620.0    40.4 10637.0    45.3 10641.0    47.2 10656.0
GR  45.9 10667.0    48.5 10699.0    45.3 10741.0    45.3 10764.0    50.8 10798.0
GR  56.2 10822.0    63.4 10849.0    64.6 10898.0    64.3 10949.0    64.2 10999.0
GR  63.5 11049.0    63.7 11098.0    64.7 11148.0    69.7 14148.0    89.7 14150.0
X1 90.90     44.   10242   10769    1056    1056    1056
X3    10
GR  88.0  6845.0    68.0  6847.0    63.0  9847.0    62.5  9898.0    63.0  9999.0
GR  62.5 10024.0    61.8 10029.0    64.3 10035.0    64.6 10047.0    64.1 10049.0
GR  64.3 10054.0    60.8 10070.0    54.3 10149.0    54.3 10172.0    47.0 10197.0
GR  45.6 10242.0    42.9 10248.0    40.6 10265.0    35.9 10269.0    32.9 10289.0
GR  19.0 10309.0    13.8 10330.0     8.0 10351.0     2.9 10390.0     2.1 10410.0
GR   2.0 10429.0    -3.8 10450.0    -4.1 10571.0     2.0 10589.0     5.0 10610.0
GR  17.4 10630.0    34.0 10670.0    40.5 10679.0    41.4 10683.0    52.0 10711.0
GR  59.7 10738.0    68.2 10769.0    69.0 10799.0    68.2 10899.0    68.2 10999.0
GR  68.2 11048.0    68.2 11073.0    68.2 14073.0    84.3 14075.0
X1 91.10     48. 10198.2 10698.9    1056    1056    1056
X3    10
GR  88.0  6795.3    68.0  6797.3    63.0  9797.3    63.3  9847.7    62.6  9972.1
GR  62.2  9979.5    64.1  9984.0    64.7  9995.6    64.3 10002.5    58.6 10017.4
GR  58.0 10048.2    59.6 10171.7    55.2 10189.0    52.6 10198.2    49.5 10203.9
GR  44.2 10218.5    40.4 10219.4    26.0 10279.9    22.8 10302.0    21.8 10320.7
GR  21.9 10340.2    20.8 10358.8    17.7 10379.4    10.9 10419.5     7.8 10440.1
GR   3.8 10479.9     3.9 10499.4     9.1 10523.2    10.8 10540.5     7.0 10558.5
GR   4.8 10579.8     4.9 10599.8     7.0 10621.3     8.4 10641.1    22.2 10659.7
GR  28.1 10679.7    52.0 10698.9    57.7 10718.9    66.4 10746.1    52.0 10794.9
GR  54.1 10837.0    55.4 10870.2    55.3 10898.6    64.1 10952.8    80.6 11000.0
GR  88.8 11044.5    93.8 14044.5   113.8 14046.5
X1 91.30     42.   10186   10656    1056    1056    1056
X3    10
GR  81.5  6846.0    61.5  6848.0    58.1  9848.0    58.1  9898.0    58.1  9928.0
GR  58.1  9940.0    58.1  9979.0    58.7  9999.0    60.0 10049.0    58.1 10076.0
GR  58.1 10148.0    58.1 10186.0    44.3 10219.0    40.5 10236.0    27.0 10239.0
GR  13.0 10280.0     8.0 10299.0     5.0 10321.0      .9 10340.0    -1.9 10359.0
GR  -1.7 10379.0    -4.5 10399.0     -.8 10418.0    -2.0 10439.0    -3.6 10460.0
GR  -3.7 10490.0     2.0 10499.0     5.9 10519.0    14.5 10538.0    29.3 10578.0
GR  40.6 10593.0    44.4 10642.0    52.5 10656.0    55.4 10698.0    61.7 10730.0
GR  67.1 10748.0    68.0 10848.0    68.7 10947.0    67.8 10996.0    68.5 11045.0
GR  73.5 14045.0    93.5 14047.0
X1 91.50     41. 10283.8 10788.9    1056    1056    1056
X3    10
GR  83.7  6949.0    63.7  6951.0    58.7  9951.0    59.5  9996.2    61.1 10050.8
GR  61.0 10099.4    61.4 10149.6    61.3 10200.2    61.7 10248.3    61.3 10258.7
GR  52.2 10283.8    41.6 10300.3    40.5 10300.8    32.0 10319.9    22.2 10341.0
GR  15.0 10360.1    10.0 10379.8     7.9 10401.1     8.2 10420.5     5.9 10440.2
GR   5.0 10460.1     3.8 10480.4     4.0 10500.2    -1.1 10599.8     6.9 10621.9
GR  12.0 10639.9    14.7 10661.3    16.7 10680.2    23.0 10699.2    30.7 10718.8
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GR  36.9 10739.8    45.4 10752.9    49.0 10770.4    53.1 10788.9    70.6 10809.7
GR  80.1 10838.2    81.2 10879.9    82.3 10898.8    85.4 10928.2    90.4 13928.2
GR 110.4 13930.2
X1 91.70     47.   10160   10651    1056    1056    1056
X3    10
GR  84.7  6848.0    64.7  6850.0    60.0  9850.0    60.0  9899.0    60.0  9930.0
GR  60.0  9997.0    60.6 10048.0    61.4 10098.0    61.2 10148.0    60.0 10160.0
GR  49.8 10189.0    44.0 10210.0    32.9 10231.0    17.1 10270.0    11.2 10290.0
GR   8.1 10311.0     8.2 10330.0     3.9 10370.0     3.1 10390.0     1.3 10409.0
GR    .1 10430.0    -2.9 10450.0    -5.9 10472.0    -3.9 10491.0    -4.9 10511.0
GR   2.4 10530.0     8.2 10551.0    12.8 10568.0    20.0 10590.0    28.1 10610.0
GR  34.0 10630.0    40.2 10633.0    46.2 10645.0    52.4 10651.0    56.9 10668.0
GR  52.4 10699.0    52.4 10721.0    52.4 10742.0    52.4 10768.0    52.4 10798.0
GR  56.8 10823.0    56.6 10848.0    58.6 10898.0    56.8 10948.0    57.4 10967.0
GR  62.4 13967.0    82.4 13969.0
X1 91.90     34.   10113   10602    1056    1056    1056
X3    10
GR  91.3  9797.0    71.3  9799.0    66.3  9899.0    65.3  9999.0    63.2 10113.0
GR  41.2 10159.0    28.5 10176.0    15.5 10192.0     8.8 10200.0     4.7 10221.0
GR  -1.2 10240.0    -5.0 10260.0    -6.1 10281.0    -4.1 10320.0     1.8 10379.0
GR   4.8 10440.0     8.9 10480.0    11.9 10500.0    23.6 10540.0    32.9 10559.0
GR  40.3 10593.0    48.4 10602.0    50.8 10619.0    52.3 10639.0    51.6 10674.0
GR  52.1 10701.0    48.4 10748.0    48.4 10799.0    48.4 10849.0    48.4 10878.0
GR  48.4 10897.0    56.7 10947.0    61.7 13947.0    81.7 13949.0
X1 92.30     48.   10208   10750    2112    2112    2112
X3    10
GR  88.6  9749.0    68.6  9751.0    63.6  9851.0    63.9  9899.0    63.6  9950.0
GR  63.5 10000.0    64.0 10042.0    65.5 10058.0    74.0 10080.0    74.6 10089.0
GR  74.2 10098.0    64.6 10123.0    63.5 10143.0    63.5 10163.0    63.5 10189.0
GR  63.5 10200.0    63.5 10208.0    55.4 10223.0    44.9 10233.0    40.6 10258.0
GR  39.2 10261.0    32.9 10300.0    24.0 10320.0    13.9 10341.0    10.1 10359.0
GR   8.0 10401.0     7.7 10481.0     8.9 10500.0     8.9 10521.0    10.0 10539.0
GR   5.1 10559.0     6.8 10600.0    13.0 10620.0    15.8 10641.0    17.7 10661.0
GR  25.8 10679.0    29.9 10699.0    32.5 10720.0    46.3 10729.0    58.8 10750.0
GR  59.9 10799.0    58.8 10851.0    58.8 10924.0    58.8 10949.0    58.8 10988.0
GR  59.7 11049.0    64.7 14049.0    84.7 14051.0
X1 92.50     46.   10155   10643    1056    1056    1056
X3    10
GR  87.3  9697.0    67.3  9699.0    62.3  9799.0    62.5  9847.0    63.1  9897.0
GR  63.3  9927.0    63.7  9954.0    73.7  9986.0    74.2  9992.0    74.4  9996.0
GR  74.1 10001.0    63.5 10032.0    62.5 10043.0    57.2 10068.0    56.2 10098.0
GR  55.7 10133.0    51.9 10155.0    47.7 10164.0    40.5 10175.0    34.2 10178.0
GR  32.1 10198.0    17.1 10219.0     6.9 10239.0     4.1 10258.0     4.1 10278.0
GR   3.1 10298.0     5.2 10338.0     5.0 10380.0     7.9 10439.0     8.0 10481.0
GR   8.7 10499.0    13.9 10519.0    17.0 10538.0    27.9 10579.0    34.0 10598.0
GR  40.1 10605.0    54.9 10633.0    60.8 10643.0    62.5 10673.0    62.3 10698.0
GR  60.8 10748.0    60.8 10798.0    60.8 10899.0    60.8 10949.0    65.8 13949.0
GR  85.8 13951.0
X1 92.70     46. 10112.7 10685.3    1056    1056    1056
X3    10
GR  87.9  9648.1    67.9  9650.1    62.9  9750.1    62.9  9799.7    62.9  9848.3
GR  62.9  9897.9    62.9  9937.6    63.3  9949.0    64.4  9959.8    73.8  9984.9
GR  73.7 10002.2    65.0 10026.3    62.9 10067.5    62.9 10073.6    62.9 10097.4
GR  62.9 10112.7    62.8 10113.2    55.4 10124.3    40.6 10144.1    37.1 10159.1
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GR  34.3 10179.1    15.2 10201.5     5.2 10214.2    -4.1 10232.3   -16.9 10259.5
GR -23.9 10279.1   -26.0 10301.0   -26.9 10319.8   -17.0 10359.7    -6.1 10380.2
GR   4.0 10418.6    10.1 10459.1    22.0 10498.4    24.1 10518.7    27.2 10540.0
GR  29.0 10558.8    33.2 10580.5    54.9 10662.7    59.5 10685.3    59.5 10697.3
GR  61.4 10746.8    61.3 10797.4    59.5 10846.6    62.5 10995.3    67.5 13995.3
GR  87.5 13997.3
X1 92.90     59.   10331   11446    1056    1056    1056
X3    10
GR  82.4  9700.0    62.4  9702.0    57.4  9802.0    55.2  9852.0    55.3  9902.0
GR  50.7  9952.0    48.8 10002.0    50.9 10053.0    48.3 10144.0    48.3 10177.0
GR  48.3 10202.0    48.3 10238.0    48.3 10270.0    48.3 10331.0    46.1 10406.0
GR  42.8 10451.0    40.4 10476.0    38.9 10541.0    35.0 10561.0    33.0 10601.0
GR  32.9 10622.0    31.1 10661.0    28.1 10681.0    26.7 10700.0    26.8 10722.0
GR  22.8 10762.0    19.0 10781.0    15.7 10801.0    10.1 10850.0     0.0 10901.0
GR  -5.1 10921.0    -9.4 10941.0   -12.3 10961.0   -19.6 10976.0   -22.6 10981.0
GR -25.3 11002.0   -27.5 11022.0   -30.5 11042.0   -31.7 11062.0   -32.6 11081.0
GR -32.5 11120.0   -30.3 11141.0   -30.5 11160.0   -27.6 11221.0   -22.5 11240.0
GR -15.3 11260.0    -7.0 11280.0    -6.2 11300.0     0.0 11320.0     3.9 11339.0
GR  11.1 11359.0    28.4 11379.0    44.4 11422.0    54.3 11440.0    62.8 11446.0
GR  63.4 11499.0    62.8 11599.0    67.8 14599.0    87.8 14601.0
X1 93.10     34. 10321.4 11061.7    1056    1056    1056
X3    10
GR  82.4  9921.1    62.4  9923.1    57.4 10023.1    57.4 10048.4    57.4 10149.4
GR  57.4 10198.6    57.4 10321.4    48.5 10442.7    45.6 10469.6    47.0 10498.4
GR  41.8 10530.3    42.5 10538.7    41.5 10550.7    40.5 10551.2    34.7 10559.7
GR  26.3 10598.0    19.1 10616.9    18.0 10639.3    20.0 10659.2    17.0 10716.4
GR  13.2 10757.1    12.1 10780.0     8.9 10819.8     2.0 10859.1     -.1 10898.4
GR   4.9 10918.8     6.9 10939.1    10.8 10960.0    16.7 10977.9    62.6 11061.7
GR  62.6 11307.3    63.3 11364.9    68.3 14364.9    88.3 14366.9
X1 93.50     59.   10181   11291    2112    2112    2112
X3    10
GR  87.0  9772.0    67.0  9774.0    62.0  9874.0    62.0  9948.0    62.0 10000.0
GR  62.0 10049.0    62.0 10098.0    62.0 10149.0    62.0 10181.0    57.0 10186.0
GR  51.4 10200.0    46.3 10206.0    44.7 10214.0    40.1 10218.0    29.9 10220.0
GR  20.8 10240.0    12.8 10260.0    10.7 10281.0     5.8 10300.0     5.7 10321.0
GR   6.8 10340.0     6.9 10379.0    11.0 10422.0    12.0 10440.0    15.8 10461.0
GR  16.0 10480.0    19.9 10521.0    22.9 10540.0    23.1 10560.0    23.9 10581.0
GR  24.2 10600.0    27.1 10619.0    29.2 10640.0    35.1 10679.0    37.0 10698.0
GR  40.1 10714.0    46.2 10733.0    47.7 10750.0    47.6 10799.0    46.7 10814.0
GR  39.8 10839.0    36.4 10859.0    43.9 10900.0    45.5 10936.0    44.3 10970.0
GR  44.1 11000.0    48.7 11045.0    53.9 11089.0    51.1 11139.0    51.6 11169.0
GR  57.4 11249.0    61.5 11291.0    62.7 11315.0    62.7 11400.0    63.7 11449.0
GR  64.2 11498.0    62.4 11600.0    67.4 14600.0    87.4 14602.0
X1 93.70     51.   10401   11098    1056    1056    1056
X3    10
GR  98.6 10052.0    78.6 10054.0    73.6 10154.0    73.4 10159.0    66.2 10188.0
GR  66.2 10206.0    66.2 10247.0    66.2 10258.0    66.2 10299.0    66.2 10335.0
GR  66.2 10370.0    66.2 10401.0    55.2 10416.0    48.7 10431.0    46.0 10456.0
GR  43.5 10465.0    40.5 10470.0    32.8 10486.0    12.7 10527.0     7.7 10548.0
GR   4.9 10568.0     2.7 10590.0     1.7 10610.0     1.7 10632.0      .8 10651.0
GR   -.4 10672.0    -2.4 10713.0    -6.3 10734.0    -1.4 10755.0     6.6 10816.0
GR  13.6 10857.0    18.6 10878.0    18.6 10898.0    19.6 10919.0    28.6 10980.0
GR  33.6 11001.0    36.6 11023.0    40.2 11027.0    48.1 11052.0    58.1 11098.0
GR  58.3 11121.0    58.1 11144.0    58.1 11168.0    58.1 11207.0    58.1 11239.0
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GR  59.1 11343.0    58.1 11394.0    58.1 11446.0    58.6 11499.0    63.6 14499.0
GR  83.6 14501.0
X1 93.90     50.   10378   10964    1056    1056    1056
X3    10
GR  86.1  9947.0    66.1  9949.0    61.1 10049.0    61.5 10098.0    97.1 10143.0
GR  74.4 10149.0    74.3 10154.0    62.5 10189.0    61.2 10219.0    61.4 10249.0
GR  62.1 10299.0    61.8 10349.0    60.5 10378.0    47.0 10403.0    40.6 10411.0
GR  23.9 10449.0    12.1 10489.0     8.1 10509.0     3.2 10526.0    -5.9 10567.0
GR  -8.9 10590.0   -20.0 10609.0   -21.1 10629.0   -20.9 10669.0   -18.0 10690.0
GR  -5.0 10709.0     1.9 10730.0     7.4 10749.0    13.1 10790.0    17.2 10809.0
GR  24.2 10829.0    30.2 10848.0    35.2 10868.0    38.1 10887.0    40.8 10902.0
GR  42.3 10913.0    44.5 10917.0    45.7 10923.0    50.6 10929.0    55.4 10947.0
GR  61.2 10964.0    61.2 10979.0    61.2 10998.0    61.2 11047.0    61.2 11098.0
GR  61.2 11148.0    61.2 11197.0    61.2 11268.0    66.2 14268.0    86.2 14270.0
X1 94.10     48.   10498   11153    1056    1056    1056
X3    10
GR  96.8  9932.0    76.8  9934.0    71.8 10034.0    64.4 10059.0    62.0 10114.0
GR  60.3 10139.0    55.9 10159.0    54.0 10199.0    51.9 10238.0    53.2 10263.0
GR  51.1 10298.0    51.1 10329.0    53.4 10351.0    51.1 10398.0    51.1 10440.0
GR  51.1 10498.0    47.7 10523.0    44.0 10571.0    44.6 10596.0    44.2 10606.0
GR  42.2 10608.0    40.6 10614.0    35.0 10627.0    21.0 10658.0    18.0 10677.0
GR  15.8 10699.0    12.0 10757.0    12.0 10780.0     8.7 10839.0    10.1 10858.0
GR   8.9 10880.0     8.8 10960.0     9.8 10979.0     6.8 10999.0     8.7 11019.0
GR  11.9 11038.0    16.9 11058.0    24.8 11078.0    31.0 11097.0    40.6 11114.0
GR  61.6 11153.0    61.6 11197.0    61.6 11248.0    61.6 11299.0    61.6 11347.0
GR  61.6 11421.0    66.6 14421.0    86.6 14423.0
X1 94.20     42.   10430   11024     528     528     528
X3    10
GR  79.3  9996.0    59.3  9998.0    54.3 10098.0    54.3 10146.0    54.3 10198.0
GR  54.3 10237.0    54.3 10267.0    54.3 10297.0    54.3 10348.0    54.3 10378.0
GR  54.3 10397.0    54.3 10430.0    53.0 10447.0    46.7 10488.0    46.6 10517.0
GR  45.5 10526.0    40.7 10538.0    26.5 10581.0    20.0 10619.0    12.2 10639.0
GR   6.0 10698.0     4.9 10719.0     5.1 10758.0     3.0 10778.0     3.0 10819.0
GR   1.0 10838.0     3.2 10859.0    10.2 10879.0    17.0 10917.0    20.0 10939.0
GR  40.6 10996.0    46.4 11005.0    51.8 11015.0    61.6 11024.0    62.3 11047.0
GR  61.6 11098.0    61.6 11147.0    61.6 11198.0    61.6 11248.0    61.6 11322.0
GR  66.6 14322.0    86.6 14324.0
X1 94.30     43.   10210   10798     528     528     528
X3    10
GR  82.6  9799.0    62.6  9801.0    57.6  9901.0    57.6  9950.0    57.6 10001.0
GR  57.6 10051.0    57.6 10100.0    57.6 10150.0    57.6 10179.0    57.6 10199.0
GR  57.6 10210.0    52.5 10249.0    49.0 10287.0    44.8 10297.0    40.7 10304.0
GR  35.3 10319.0    32.1 10340.0    28.0 10360.0    22.1 10380.0    18.3 10400.0
GR  15.9 10420.0    13.0 10439.0    12.0 10459.0     6.2 10499.0     4.2 10520.0
GR   2.1 10538.0      .2 10579.0     1.2 10598.0     4.0 10620.0    12.1 10658.0
GR  14.1 10679.0    18.1 10698.0    24.8 10718.0    43.3 10763.0    41.0 10770.0
GR  55.8 10795.0    64.8 10798.0    64.8 10897.0    64.8 10947.0    64.8 11095.0
GR  64.8 11120.0    69.8 14120.0    89.8 14122.0
X1 94.50     47.   10128   10781    1056    1056    1056
X3    10
GR  83.6  9725.0    63.6  9727.0    58.6  9827.0    58.0  9848.0    57.4  9898.0
GR  57.4  9928.0    57.4  9949.0    57.4  9979.0    57.4  9990.0    57.4  9997.0
GR  57.4 10016.0    58.3 10044.0    57.4 10084.0    57.4 10098.0    57.4 10128.0
GR  51.4 10149.0    46.6 10199.0    47.7 10240.0    50.5 10267.0    46.5 10282.0
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GR  45.7 10289.0    45.6 10294.0    46.0 10306.0    21.0 10350.0    16.1 10369.0
GR   9.1 10410.0     7.0 10429.0     4.1 10489.0     1.0 10509.0      .2 10531.0
GR  -5.0 10549.0    -4.9 10570.0     2.9 10650.0     5.1 10670.0    10.9 10689.0
GR  22.9 10709.0    40.5 10745.0    43.7 10750.0    49.0 10762.0    62.1 10781.0
GR  62.4 10798.0    62.1 10849.0    62.1 10879.0    62.1 10899.0    62.1 11099.0
GR  67.1 14099.0    87.1 14101.0
X1 94.70     35.   10116   10826    1056    1056    1056
X3    10
GR  85.5  9897.0    65.5  9899.0    60.5  9999.0    60.5 10049.0    60.5 10099.0
GR  60.5 10116.0    55.4 10149.0    53.7 10199.0    55.0 10226.0    48.7 10249.0
GR  47.6 10264.0    52.7 10294.0    35.0 10319.0    17.0 10359.0    10.0 10380.0
GR   5.0 10479.0     5.0 10499.0     3.1 10539.0     5.9 10598.0    17.8 10639.0
GR  25.8 10698.0    28.9 10719.0    34.1 10739.0    36.9 10758.0    40.6 10773.0
GR  44.3 10777.0    48.0 10799.0    57.4 10818.0    63.2 10826.0    63.7 10848.0
GR  63.4 10884.0    64.4 10898.0    64.3 10928.0    69.3 13928.0    89.3 13930.0
X1 94.90     34.   10161   10698    1056    1056    1056
X3    10
GR  83.4  9946.0    63.4  9948.0    58.4 10048.0    59.4 10060.0    60.3 10097.0
GR  58.8 10131.0    56.2 10144.0    56.1 10161.0    47.0 10179.0    41.1 10185.0
GR  31.1 10199.0    24.0 10219.0    17.7 10279.0    14.9 10300.0     8.9 10320.0
GR   2.9 10360.0    -2.2 10379.0    -4.1 10420.0    -2.0 10440.0    -2.1 10460.0
GR    .9 10480.0    11.0 10519.0    15.0 10540.0    17.7 10559.0    35.0 10599.0
GR  37.0 10619.0    46.7 10642.0    53.8 10653.0    56.7 10673.0    63.6 10698.0
GR  64.4 10747.0    63.6 10797.0    68.6 13797.0    88.6 13799.0
X1 95.10     36.   10178   10724    1056    1056    1056
X3    10
GR  84.7  9946.0    64.7  9948.0    59.7 10048.0    59.7 10098.0    59.7 10148.0
GR  59.7 10178.0    56.2 10210.0    44.4 10233.0    40.9 10242.0    16.0 10279.0
GR   7.0 10320.0     1.1 10339.0    -1.9 10360.0   -13.2 10400.0   -22.9 10419.0
GR -23.9 10439.0   -24.0 10460.0   -21.0 10480.0   -20.9 10501.0   -20.0 10520.0
GR -17.9 10540.0   -16.9 10560.0    19.0 10599.0    29.1 10619.0    35.0 10638.0
GR  37.1 10659.0    40.5 10668.0    48.9 10707.0    53.6 10714.0    55.6 10724.0
GR  55.6 10749.0    55.6 10779.0    58.4 10799.0    60.9 10830.0    65.9 13830.0
GR  85.9 13832.0
X1 95.30     38.   10139   10723    1056    1056    1056
X3    10
GR  84.4  9937.0    64.4  9939.0    59.4 10039.0    59.4 10049.0    59.4 10089.0
GR  59.4 10108.0    59.4 10139.0    58.4 10149.0    51.5 10178.0    50.1 10195.0
GR  51.5 10207.0    54.2 10220.0    56.4 10242.0    27.9 10289.0    13.0 10329.0
GR   3.9 10349.0      .8 10370.0    -1.2 10390.0    -7.0 10430.0    -9.0 10471.0
GR  -6.9 10490.0    -2.2 10509.0     2.0 10530.0     5.9 10550.0    14.0 10569.0
GR  27.9 10589.0    36.1 10608.0    38.9 10629.0    40.8 10634.0    44.4 10648.0
GR  48.7 10670.0    53.0 10711.0    59.7 10723.0    60.5 10747.0    59.7 10783.0
GR  62.9 10823.0    67.9 13823.0    87.9 13825.0
X1 95.50     38.   10161   10699    1056    1056    1056
X3    10
GR  87.1  9946.0    67.1  9948.0    62.1 10048.0    62.1 10088.0    62.1 10111.0
GR  62.1 10126.0    62.1 10148.0    62.1 10161.0    56.5 10182.0    53.2 10201.0
GR  53.6 10221.0    53.1 10227.0    40.7 10251.0    22.8 10270.0    14.1 10289.0
GR   8.0 10310.0     8.2 10330.0     3.0 10370.0     4.0 10390.0     4.0 10430.0
GR   2.9 10450.0     3.1 10470.0    -1.0 10509.0     1.1 10531.0     0.0 10550.0
GR   2.1 10570.0    10.1 10589.0    13.2 10610.0    35.0 10649.0    40.7 10668.0
GR  50.1 10685.0    55.7 10699.0    55.7 10708.0    55.7 10739.0    55.7 10769.0
GR  55.7 10799.0    60.7 13799.0    80.7 13801.0
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X1 95.70     37.   10184   10691    1056    1056    1056
X3    10
GR  88.5  9821.0    68.5  9823.0    63.5  9923.0    63.8  9998.0    63.5 10045.0
GR  59.6 10074.0    58.3 10099.0    56.9 10148.0    56.9 10184.0    50.1 10190.0
GR  43.9 10219.0    42.5 10244.0    28.2 10279.0    21.1 10319.0    17.1 10339.0
GR  14.1 10359.0    14.1 10380.0    11.1 10400.0     7.1 10420.0     5.9 10440.0
GR   6.1 10460.0     2.0 10520.0     0.0 10540.0     2.1 10560.0     2.2 10580.0
GR   6.2 10600.0    40.5 10682.0    47.4 10683.0    48.0 10691.0    48.0 10720.0
GR  48.0 10734.0    52.9 10768.0    57.8 10799.0    56.6 10849.0    61.3 10899.0
GR  66.3 13899.0    86.3 13901.0
X1 95.90     50.   10177   10817    1056    1056    1056
X3    10
GR  85.5  9596.0    65.5  9598.0    60.5  9698.0    58.5  9748.0    59.2  9798.0
GR  58.4  9848.0    58.4  9899.0    58.4  9949.0    58.4  9998.0    58.8 10048.0
GR  58.4 10099.0    58.4 10148.0    58.4 10177.0    48.9 10197.0    48.4 10206.0
GR  52.5 10221.0    51.5 10233.0    52.2 10247.0    47.5 10258.0    43.3 10264.0
GR  39.5 10269.0    33.0 10284.0    24.0 10300.0     8.9 10320.0      .9 10338.0
GR  -5.3 10399.0    -7.1 10420.0    -9.2 10438.0   -10.1 10460.0   -11.1 10479.0
GR  -9.1 10499.0    -6.1 10519.0    -2.0 10539.0     2.8 10559.0     6.8 10578.0
GR   7.7 10599.0    10.8 10619.0    12.1 10639.0    14.2 10659.0    18.0 10688.0
GR  26.1 10698.0    33.9 10718.0    39.6 10728.0    46.5 10743.0    46.5 10788.0
GR  52.7 10817.0    55.0 10867.0    57.5 10872.0    62.5 13872.0    82.5 13874.0
X1 96.00     44. 10263.3 10797.5     528     528     528
X3    10
GR  84.3  9796.1    64.3  9798.1    59.3  9898.1    58.8  9947.8    60.3  9998.0
GR  58.7 10048.2    59.3 10097.9    60.9 10147.6    61.2 10192.4    55.2 10213.1
GR  55.2 10263.3    43.9 10299.3    39.8 10317.1    35.2 10318.9    28.9 10339.2
GR  25.1 10359.9    22.2 10379.2    21.1 10399.1    19.0 10418.9    17.9 10438.3
GR  15.9 10458.6    14.9 10480.4    12.1 10499.7    10.0 10519.6     7.0 10538.9
GR   -.9 10580.4    -3.0 10599.3      .1 10619.2     1.8 10639.1     4.0 10660.1
GR   4.1 10679.9     5.1 10700.8     8.9 10718.8    17.1 10737.9    28.1 10758.1
GR  39.7 10777.7    44.8 10783.8    51.9 10793.5    56.2 10797.5    56.2 10854.2
GR  56.2 10903.3    56.2 10903.8    61.2 13903.8    81.2 13905.8
X1 96.20     38.   10241   10803    1056    1056    1056
X3    10
GR  84.5  9898.0    64.5  9900.0    59.5 10000.0    59.3 10049.0    56.9 10099.0
GR  56.6 10149.0    54.1 10198.0    54.1 10241.0    44.4 10260.0    38.9 10279.0
GR  35.0 10299.0    33.0 10320.0    32.0 10339.0    23.9 10360.0    11.9 10400.0
GR   4.1 10420.0     3.1 10441.0     3.1 10479.0     1.8 10500.0     0.0 10520.0
GR  -2.1 10540.0     0.0 10581.0     2.8 10601.0     3.9 10621.0     2.9 10640.0
GR   4.7 10660.0     8.7 10680.0    16.7 10699.0    26.9 10719.0    33.8 10740.0
GR  39.0 10748.0    45.7 10765.0    57.0 10788.0    59.2 10803.0    59.2 10854.0
GR  59.2 10904.0    64.2 13904.0    84.2 13906.0
X1 96.60     38.   10159   10703    2112    2112    2112
X3    10
GR  87.3  9897.0    67.3  9899.0    62.3  9999.0    62.3 10049.0    62.3 10099.0
GR  62.3 10149.0    62.3 10159.0    55.8 10169.0    47.4 10184.0    43.6 10200.0
GR  40.1 10220.0    30.2 10259.0    24.9 10281.0    17.5 10299.0    13.9 10320.0
GR   8.0 10340.0     6.2 10361.0     1.3 10380.0     2.4 10401.0     2.3 10440.0
GR   5.4 10461.0     7.4 10500.0    11.2 10542.0    12.4 10560.0    16.3 10601.0
GR  17.1 10622.0    21.2 10642.0    39.9 10683.0    45.5 10693.0    56.5 10703.0
GR  56.5 10739.0    56.5 10761.0    56.5 10774.0    57.5 10805.0    59.4 10856.0
GR  57.4 10906.0    62.4 13906.0    82.4 13908.0
X1 96.80     47.   10120   10762    1056    1056    1056
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X3    10
GR 111.6  9745.0    91.6  9747.0    86.6  9847.0    61.6  9900.0    62.3  9949.0
GR  61.4 10000.0    61.3 10049.0    61.7 10099.0    60.9 10120.0    57.6 10138.0
GR  50.0 10149.0    44.5 10157.0    41.2 10168.0    39.4 10169.0    31.3 10188.0
GR  22.9 10213.0    12.1 10249.0     7.1 10269.0     4.0 10290.0     2.0 10309.0
GR   3.9 10329.0     6.8 10349.0     7.0 10369.0     7.9 10389.0    13.9 10449.0
GR  14.9 10471.0    17.0 10509.0    19.1 10527.0    21.2 10567.0    24.0 10587.0
GR  29.1 10607.0    33.4 10627.0    39.1 10647.0    39.5 10654.0    45.9 10673.0
GR  49.8 10683.0    46.6 10699.0    47.4 10726.0    52.4 10747.0    56.8 10762.0
GR  56.8 10785.0    56.8 10807.0    61.1 10846.0    57.0 10897.0    56.8 10947.0
GR  61.8 13947.0    81.8 13949.0
X1 97.10     26.   10150   10661    1584    1584    1584
X3    10
GR  84.8  9924.0    64.8  9926.0    59.8 10026.0    58.4 10150.0    53.8 10168.0
GR  46.5 10177.0    43.1 10186.0    30.9 10201.0    25.6 10222.0     9.0 10261.0
GR    .8 10340.0     1.1 10380.0     9.4 10460.0    14.1 10500.0    15.0 10519.0
GR  19.1 10561.0    22.0 10580.0    27.9 10599.0    45.2 10643.0    51.1 10661.0
GR  52.8 10699.0    56.8 10735.0    52.9 10798.0    55.3 10849.0    60.3 13849.0
GR  80.3 13851.0
X1 97.30     40.   10156   10659    1056    1056    1056
X3    10
GR  85.4  9945.0    65.4  9947.0    60.4 10047.0    60.4 10098.0    60.9 10148.0
GR  60.4 10156.0    55.9 10158.0    49.0 10173.0    42.0 10179.0    30.3 10199.0
GR  21.9 10218.0    17.6 10238.0     9.8 10259.0    -1.0 10300.0    -4.9 10320.0
GR  -4.9 10340.0    -5.9 10360.0    -5.9 10380.0    -3.1 10400.0      .8 10420.0
GR   4.0 10440.0     6.1 10460.0     8.8 10480.0    14.9 10519.0    16.8 10538.0
GR  17.7 10559.0    21.0 10579.0    24.7 10599.0    32.8 10617.0    39.9 10631.0
GR  49.1 10647.0    55.0 10659.0    55.0 10688.0    55.0 10700.0    58.0 10726.0
GR  57.2 10749.0    55.0 10800.0    55.0 10828.0    60.0 13828.0    80.0 13830.0
X1 97.50     38.   10219   10671    1056    1056    1056
X3    10
GR  85.1  9997.0    65.1  9999.0    60.1 10099.0    60.1 10129.0    60.1 10155.0
GR  60.1 10168.0    60.1 10198.0    60.6 10210.0    60.1 10219.0    56.7 10220.0
GR  49.0 10233.0    44.6 10242.0    40.1 10249.0    -2.0 10260.0    -7.2 10281.0
GR  -9.0 10320.0    -9.0 10341.0    -7.0 10359.0    -8.9 10380.0    -6.2 10400.0
GR  -1.1 10419.0     6.0 10440.0    10.1 10460.0    15.2 10479.0    19.1 10497.0
GR  23.3 10519.0    29.1 10539.0    36.4 10559.0    40.4 10566.0    46.0 10589.0
GR  55.0 10622.0    54.6 10652.0    58.9 10661.0    61.7 10671.0    61.7 10697.0
GR  61.7 10746.0    66.7 13746.0    86.7 13748.0
X1 97.70     47.   10057   10803    1056    1056    1056
X3    10
GR  86.6  9849.0    66.6  9851.0    61.6  9951.0    61.8 10049.0    61.6 10057.0
GR  56.4 10072.0    54.7 10100.0    54.2 10118.0    47.8 10150.0    47.3 10181.0
GR  44.8 10200.0    42.0 10217.0    40.2 10221.0    36.2 10240.0    34.1 10260.0
GR  26.3 10300.0    20.4 10321.0    21.5 10341.0    21.6 10360.0    20.4 10381.0
GR  21.5 10402.0    20.6 10420.0    18.5 10440.0    18.4 10461.0    16.3 10481.0
GR  15.4 10501.0    13.2 10520.0    13.3 10541.0    11.5 10561.0    10.2 10581.0
GR   7.4 10601.0     6.4 10622.0     8.2 10660.0    14.3 10680.0    19.1 10701.0
GR  26.3 10720.0    36.0 10739.0    40.0 10756.0    45.6 10773.0    54.4 10789.0
GR  59.9 10798.0    63.4 10803.0    63.4 10848.0    63.4 10899.0    63.4 10918.0
GR  68.4 13918.0    88.4 13920.0
X1 97.90     39.   10250   10791    1056    1056    1056
X3    10
GR  82.8  9848.0    62.8  9850.0    57.8  9950.0    54.4  9984.0    53.3 10020.0
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GR  57.2 10065.0    55.4 10099.0    54.0 10150.0    51.0 10201.0    49.0 10250.0
GR  45.3 10270.0    40.3 10284.0    36.8 10290.0    30.9 10309.0    20.2 10329.0
GR  15.9 10351.0    13.8 10370.0    11.0 10390.0     9.0 10431.0     6.8 10452.0
GR   4.3 10501.0     3.1 10535.0     -.1 10591.0     1.9 10611.0     4.9 10630.0
GR   6.9 10651.0    12.0 10670.0    15.1 10686.0    20.7 10711.0    30.9 10731.0
GR  38.8 10750.0    40.3 10765.0    41.8 10770.0    49.6 10782.0    59.2 10791.0
GR  61.0 10841.0    60.2 10891.0    65.2 13891.0    85.2 13893.0
X1 98.10     38.   10123   10865    1056    1056    1056
X3    10
GR  85.1  9896.0    65.1  9898.0    60.1  9998.0    60.1 10023.0    60.1 10048.0
GR  60.1 10073.0    60.1 10123.0    47.5 10148.0    40.4 10165.0    33.9 10169.0
GR  28.7 10188.0    18.9 10229.0    11.3 10250.0     6.0 10270.0     7.9 10290.0
GR   8.0 10310.0    10.0 10330.0    10.1 10350.0    12.0 10389.0    12.0 10470.0
GR  14.0 10509.0    14.1 10531.0    15.0 10549.0    16.6 10568.0    23.0 10609.0
GR  29.9 10629.0    37.9 10668.0    41.0 10689.0    43.6 10739.0    45.9 10748.0
GR  53.4 10788.0    52.6 10818.0    56.4 10848.0    62.0 10865.0    62.4 10916.0
GR  62.0 10972.0    67.0 13972.0    87.0 13974.0
X1 98.30     41.   10139   10726    1056    1056    1056
X3    10
GR  86.8  9926.0    66.8  9928.0    61.8 10028.0    57.5 10048.0    57.5 10068.0
GR  57.5 10077.0    57.5 10089.0    57.5 10122.0    57.5 10139.0    44.6 10164.0
GR  42.4 10187.0    42.8 10195.0    40.4 10205.0    36.8 10209.0    26.9 10248.0
GR  20.0 10260.0    13.6 10269.0     3.2 10289.0     2.0 10309.0     2.1 10328.0
GR  -6.1 10349.0    -9.0 10368.0    -7.9 10388.0    -4.9 10409.0    -3.9 10428.0
GR   2.0 10469.0     6.2 10488.0     8.8 10508.0    13.3 10527.0    17.3 10548.0
GR  23.0 10567.0    29.8 10588.0    39.8 10621.0    45.5 10639.0    47.6 10657.0
GR  53.1 10686.0    56.8 10726.0    57.1 10747.0    56.8 10845.0    61.8 13845.0
GR  81.8 13847.0
X1 98.70     39. 10151.1 10853.4    2112    2112    2112
X3    10
GR  90.6  9897.0    70.6  9899.0    65.6  9999.0    64.3 10007.6    63.7 10034.1
GR  60.3 10071.0    60.3 10121.9    60.3 10151.1    55.3 10200.4    49.9 10251.2
GR  50.2 10270.6    53.2 10301.3    53.4 10312.7    44.6 10331.9    40.0 10336.2
GR  36.1 10341.0    23.1 10361.9    16.5 10380.9    13.3 10402.1     8.0 10442.9
GR   7.2 10462.4     7.3 10503.3     6.2 10522.4     7.0 10543.8     7.3 10562.7
GR   8.2 10583.6     8.2 10623.5     9.1 10642.9     8.1 10723.8    11.1 10744.0
GR  17.1 10764.5    40.3 10790.2    44.8 10803.3    48.3 10825.0    56.2 10842.9
GR  62.0 10853.4    62.0 10953.2    67.0 13953.2    87.0 13955.2
X1 98.80     40.   10310   10797     528     528     528
X3    10
GR  79.8  9898.0    59.8  9900.0    54.8 10000.0    53.6 10048.0    53.6 10098.0
GR  54.7 10148.0    53.6 10199.0    53.6 10245.0    53.7 10298.0    53.6 10310.0
GR  48.8 10337.0    48.7 10343.0    43.6 10352.0    40.1 10356.0    34.8 10359.0
GR  30.0 10379.0    22.0 10399.0    16.8 10420.0    13.6 10441.0     9.9 10479.0
GR   9.6 10500.0     6.9 10520.0     4.7 10541.0     2.5 10580.0      .8 10601.0
GR    .8 10620.0    -2.3 10680.0    10.5 10720.0    24.9 10740.0    29.5 10750.0
GR  40.3 10759.0    45.9 10769.0    50.0 10779.0    57.9 10786.0    66.3 10797.0
GR  66.5 10839.0    66.3 10879.0    66.3 10898.0    71.3 13898.0    91.3 13900.0
X1 99.00     27.   10173   10633    1056    1056    1056
X3    10
GR  82.8  9946.0    62.8  9948.0    57.8 10048.0    57.8 10098.0    57.8 10148.0
GR  57.8 10173.0    50.5 10210.0    46.9 10219.0    42.7 10225.0    40.1 10231.0
GR  35.9 10240.0    30.1 10258.0    13.6 10299.0     8.9 10320.0     1.1 10399.0
GR  -1.2 10419.0    -6.1 10519.0    -3.0 10540.0    18.9 10579.0    40.1 10605.0
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GR  49.7 10611.0    62.8 10633.0    62.8 10647.0    62.8 10697.0    62.8 10747.0
GR  67.8 13747.0    87.8 13749.0
X1 99.20     38. 10192.4 10782.0    1056    1056    1056
X3    10
GR  86.6  9946.5    66.6  9948.5    61.6 10048.5    61.6 10098.8    61.6 10148.2
GR  61.6 10192.4    57.1 10210.1    55.6 10256.5    47.0 10288.9    43.2 10297.1
GR  41.7 10305.2    40.0 10308.3    33.0 10310.8    28.9 10329.5    23.0 10348.9
GR  20.0 10369.5    11.0 10409.9     9.8 10430.9     7.7 10452.4     7.1 10470.3
GR   6.0 10489.3     7.0 10510.1     5.9 10529.5     5.0 10549.9     5.0 10590.2
GR   6.0 10609.5    12.0 10649.7    32.0 10688.4    38.0 10710.3    40.4 10727.5
GR  48.9 10745.7    61.2 10782.0    62.6 10813.2    61.2 10828.1    61.2 10849.1
GR  62.4 10887.7    67.4 13887.7    87.4 13889.7
X1 99.40     33.   10243   10772    1056    1056    1056
X3    10
GR  85.8  9987.0    65.8  9989.0    60.8 10089.0    59.0 10147.0    61.2 10181.0
GR  59.0 10243.0    56.6 10249.0    48.3 10265.0    45.4 10278.0    44.6 10285.0
GR  40.3 10290.0    34.2 10299.0    30.1 10319.0    22.0 10338.0    19.0 10359.0
GR  19.0 10379.0    14.9 10399.0    12.9 10418.0     8.9 10439.0     7.8 10458.0
GR   4.9 10480.0     5.0 10499.0     3.1 10539.0     4.9 10580.0     3.0 10619.0
GR   5.0 10639.0    13.0 10679.0    31.9 10718.0    47.7 10739.0    62.8 10772.0
GR  64.7 10848.0    69.7 13848.0    89.7 13850.0
X1 99.60     34. 10174.4 10698.5    1056    1056    1056
X3    10
GR  88.6  9946.9    68.6  9948.9    63.6 10048.9    63.6 10099.1    63.6 10148.7
GR  63.6 10174.4    50.5 10209.3    49.3 10217.3    43.5 10224.7    40.3 10225.5
GR  35.0 10230.3    29.2 10250.2    20.9 10269.2    15.2 10290.5     6.1 10310.1
GR   5.1 10331.1     2.0 10352.2     -.2 10371.3    -5.0 10391.0    -5.9 10412.4
GR -10.0 10450.5    -2.9 10490.2    10.1 10530.0    11.1 10550.8    17.1 10570.2
GR  22.7 10609.0    40.3 10647.4    44.2 10650.6    49.6 10659.6    60.8 10689.0
GR  67.0 10698.5    67.4 10698.9    72.4 13698.9    92.4 13700.9
X1 99.80     32.   10119   10753    1056    1056    1056
X3    10
GR  87.7  9895.0    67.7  9897.0    62.7  9997.0    63.4 10047.0    62.7 10119.0
GR  57.5 10136.0    51.0 10178.0    53.7 10197.0    53.7 10204.0    40.0 10229.0
GR  32.7 10239.0    19.0 10280.0    10.0 10320.0     6.8 10359.0     5.0 10399.0
GR   3.0 10419.0      .9 10460.0    -1.1 10479.0     -.9 10519.0     3.9 10539.0
GR   4.0 10560.0     8.2 10580.0     9.0 10600.0    14.0 10619.0    40.3 10675.0
GR  46.6 10681.0    49.5 10689.0    57.3 10753.0    58.1 10803.0    57.3 10854.0
GR  62.3 13854.0    82.3 13856.0
X1100.00     33.   10207   10781    1056    1056    1056
X3    10
GR  77.6  9947.0    57.6  9949.0    52.6 10049.0    54.3 10090.0    53.3 10119.0
GR  53.6 10149.0    54.4 10170.0    52.6 10207.0    47.3 10249.0    45.4 10283.0
GR  45.7 10300.0    45.5 10308.0    41.5 10315.0    25.2 10349.0    20.0 10368.0
GR  16.2 10389.0    11.2 10408.0     5.9 10511.0     4.0 10529.0     4.0 10549.0
GR   2.2 10590.0    -1.3 10629.0    15.8 10690.0    16.9 10710.0    27.2 10729.0
GR  32.8 10749.0    41.4 10752.0    45.2 10756.0    50.3 10765.0    56.7 10781.0
GR  56.7 10899.0    61.7 13899.0    81.7 13901.0
X1100.20     40. 10117.6 10785.0    1056    1056    1056
X3    10
GR  85.2  9949.1    65.2  9951.1    60.2 10051.1    60.2 10099.7    60.2 10117.6
GR  59.4 10125.6    53.0 10181.2    52.2 10202.6    53.3 10234.4    51.5 10240.4
GR  41.2 10259.4    36.8 10259.6    31.0 10270.8    23.0 10299.6    16.9 10340.2
GR  15.1 10358.7    15.1 10380.1    17.0 10399.4    10.0 10418.6    10.1 10459.9
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GR   9.1 10480.3     9.1 10499.2     8.1 10519.7     8.0 10579.9     6.1 10617.7
GR   6.0 10639.6     8.8 10658.9    12.8 10678.5    29.2 10719.9    33.9 10740.6
GR  41.2 10741.2    49.6 10756.2    53.3 10770.4    60.7 10784.9    60.6 10785.0
GR  60.6 10799.9    60.6 10851.3    60.6 10899.7    65.6 13899.7    85.6 13901.7
X1100.40     37.   10150   10698    1056    1056    1056
X3    10
GR  81.5  9897.0    61.5  9899.0    56.5  9999.0    55.4 10048.0    55.4 10081.0
GR  55.6 10111.0    56.3 10121.0    56.4 10137.0    55.4 10150.0    54.3 10165.0
GR  41.5 10193.0    39.8 10209.0    23.9 10249.0    14.9 10269.0     7.9 10312.0
GR   5.2 10330.0     4.2 10350.0     4.1 10389.0     5.1 10409.0     4.9 10449.0
GR   3.0 10470.0     1.1 10508.0     3.0 10529.0     3.0 10549.0     7.9 10589.0
GR  16.8 10608.0    32.1 10627.0    41.3 10638.0    46.8 10648.0    55.9 10688.0
GR  61.6 10698.0    61.6 10749.0    61.6 10798.0    61.6 10801.0    61.6 10834.0
GR  66.6 13834.0    86.6 13836.0
X1100.60     36.   10105   10638    1056    1056    1056
X3    10
GR  85.7  9880.0    65.7  9882.0    60.7  9982.0    60.5 10000.0    60.5 10049.0
GR  60.6 10099.0    60.5 10105.0    49.2 10121.0    45.1 10137.0    43.6 10145.0
GR  41.4 10149.0    39.9 10158.0    20.0 10218.0    15.9 10259.0    14.8 10279.0
GR  10.0 10297.0     8.9 10319.0     3.9 10358.0     3.9 10398.0     2.8 10419.0
GR   2.9 10438.0     -.2 10460.0     2.9 10478.0     5.1 10498.0     4.9 10519.0
GR   6.9 10538.0    14.9 10559.0    28.2 10581.0    34.9 10599.0    41.2 10604.0
GR  52.5 10619.0    63.2 10638.0    63.2 10688.0    63.2 10739.0    68.2 13739.0
GR  88.2 13741.0
X1100.91     34.   10137   10762    1636    1636    1636
X3    10
GR  81.8  9927.0    61.8  9929.0    56.8 10029.0    55.7 10037.0    55.3 10049.0
GR  55.3 10088.0    55.3 10137.0    49.0 10253.0    48.9 10258.0    32.1 10289.0
GR  25.9 10312.0    22.0 10329.0    17.0 10350.0    12.0 10390.0     -.1 10509.0
GR    .3 10530.0    -1.0 10549.0    -4.0 10569.0    -1.9 10590.0    -4.0 10609.0
GR   -.9 10629.0    12.1 10669.0    25.0 10689.0    33.2 10709.0    35.9 10729.0
GR  41.4 10731.0    44.3 10737.0    48.1 10749.0    56.8 10762.0    56.8 10800.0
GR  56.8 10850.0    56.8 10900.0    61.8 13900.0    81.8 13902.0
X1101.10     33. 10160.2 10752.0    1003    1003    1003
X3    10
GR  83.1  9955.5    63.1  9957.5    58.1 10057.5    58.1 10097.3    58.1 10147.6
GR  58.1 10160.2    58.2 10160.3    48.6 10219.0    41.5 10232.2    37.1 10237.7
GR  28.1 10279.0    21.0 10297.7    17.1 10319.5     7.1 10419.1     4.3 10437.8
GR   2.1 10459.4    -1.0 10478.7    -1.0 10499.1      .1 10519.3    -1.0 10538.3
GR  10.2 10598.2    12.2 10619.8    27.1 10657.8    32.1 10677.1    34.2 10697.7
GR  41.8 10710.3    47.6 10732.4    54.4 10743.1    63.4 10752.0    64.6 10798.5
GR  63.4 10872.7    68.4 13872.7    88.4 13874.7
X1101.29     37.   10169   10750    1003    1003    1003
X3    10
GR  82.1  9897.0    62.1  9899.0    57.1  9999.0    60.6 10049.0    60.2 10099.0
GR  58.6 10129.0    57.1 10169.0    52.1 10186.0    50.3 10200.0    48.3 10239.0
GR  43.8 10251.0    41.4 10254.0    34.9 10260.0    28.2 10278.0    17.9 10299.0
GR  13.0 10320.0     9.0 10360.0     7.7 10384.0     3.8 10422.0    -5.1 10481.0
GR  -6.1 10501.0    -5.9 10522.0    -5.1 10540.0    -2.0 10560.0     4.1 10580.0
GR  14.0 10600.0    19.0 10620.0    20.9 10639.0    32.9 10680.0    36.8 10699.0
GR  41.1 10710.0    52.3 10734.0    62.4 10750.0    63.3 10799.0    62.6 10849.0
GR  67.6 13849.0    87.6 13851.0
X1101.65     40. 10112.0 10751.0    1900    1900    1900
X3    10
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GR  98.4  9895.7    78.4  9897.7    73.4  9997.7    73.2 10005.2    68.0 10018.5
GR  66.4 10055.1    64.8 10064.6    64.8 10083.9    64.8 10098.2    64.8 10112.0
GR  57.5 10128.1    48.8 10162.4    46.5 10198.6    44.4 10218.4    41.2 10227.3
GR  27.8 10259.4    17.3 10279.1      .2 10341.1     1.2 10359.8      .2 10381.3
GR   2.0 10416.9     2.8 10457.5     4.9 10479.5     6.1 10498.2     6.1 10519.6
GR   7.9 10559.6    15.0 10599.6    25.9 10622.2    33.1 10639.4    38.3 10657.9
GR  41.6 10660.8    42.2 10663.7    49.0 10674.0    47.7 10697.6    50.5 10725.0
GR  55.5 10751.0    56.9 10847.3    57.8 10867.5    62.8 13867.5    82.8 13869.5
X1102.06     28.   10230   10699    2164    2164    2164
X3    10
GR  87.7  9996.0    67.7  9998.0    62.7 10098.0    62.7 10137.0    62.7 10143.0
GR  62.7 10148.0    62.7 10198.0    62.7 10218.0    62.7 10230.0    51.3 10237.0
GR  13.9 10299.0     3.2 10320.0     -.8 10339.0     3.1 10359.0     8.0 10460.0
GR  10.0 10479.0    13.0 10541.0    15.0 10560.0    19.0 10580.0    30.1 10639.0
GR  36.1 10659.0    41.5 10664.0    54.3 10684.0    57.7 10699.0    58.6 10748.0
GR  61.8 10798.0    66.8 13798.0    86.8 13800.0
X1102.45     42.   10069   10867    2059    2059    2059
X3    10
GR  97.5  9897.0    77.5  9899.0    72.5  9999.0    73.0 10004.0    72.5 10010.0
GR  62.4 10039.0    61.4 10069.0    57.4 10099.0    49.2 10198.0    44.2 10223.0
GR  41.5 10231.0    36.8 10239.0    34.9 10259.0    22.7 10279.0    14.8 10300.0
GR  -3.9 10339.0    -9.9 10349.0   -17.0 10359.0   -20.8 10379.0   -27.9 10399.0
GR -28.0 10440.0   -26.9 10459.0   -27.9 10479.0   -26.9 10500.0   -23.9 10519.0
GR -15.8 10560.0    -7.0 10580.0     3.2 10599.0     6.0 10619.0    13.1 10638.0
GR  19.0 10659.0    25.9 10679.0    31.9 10698.0    42.6 10773.0    56.9 10807.0
GR  58.3 10852.0    62.1 10867.0    62.1 10898.0    62.1 10949.0    62.1 10970.0
GR  67.1 13970.0    87.1 13972.0
X1102.55     44.   10159   10703     528     528     528
X3    10
GR  88.8  9946.0    68.8  9948.0    63.8 10048.0    63.4 10053.0    63.0 10076.0
GR  63.0 10098.0    63.0 10138.0    63.0 10148.0    63.0 10159.0    58.4 10187.0
GR  45.8 10203.0    41.6 10206.0    32.9 10208.0    28.1 10228.0    21.2 10249.0
GR  20.2 10271.0    18.1 10288.0    10.1 10309.0      .1 10330.0     -.9 10349.0
GR   .2 10370.0    -1.0 10390.0     1.1 10429.0     3.9 10449.0     9.0 10469.0
GR  10.1 10489.0    13.1 10509.0    15.2 10529.0    17.8 10549.0    21.9 10571.0
GR  31.1 10589.0    39.1 10608.0    41.6 10636.0    44.8 10643.0    46.1 10657.0
GR  49.0 10663.0    50.7 10693.0    54.9 10703.0    56.2 10715.0    57.5 10748.0
GR  57.3 10798.0    58.3 10822.0    63.3 13822.0    83.3 13824.0
X1102.67     46.   10174   10848     634     634     634
X3    10
GR  98.0  9897.0    78.0  9899.0    73.0  9999.0    73.2 10003.0    72.6 10008.0
GR  66.2 10030.0    64.4 10060.0    59.4 10089.0    58.9 10098.0    58.5 10141.0
GR  59.6 10150.0    58.5 10174.0    59.5 10190.0    56.8 10210.0    48.5 10241.0
GR  49.1 10273.0    51.1 10298.0    46.0 10304.0    44.8 10308.0    38.0 10319.0
GR  32.2 10339.0    22.0 10359.0    16.9 10380.0    15.0 10419.0    11.0 10459.0
GR  11.0 10480.0    10.0 10499.0    10.8 10519.0    11.0 10599.0     9.0 10618.0
GR   9.0 10640.0     7.9 10659.0    10.1 10679.0    12.9 10699.0    23.8 10738.0
GR  31.8 10758.0    36.8 10779.0    41.4 10783.0    42.6 10785.0    52.7 10792.0
GR  53.2 10799.0    62.9 10848.0    62.9 10897.0    62.9 10947.0    67.9 13947.0
GR  87.9 13949.0
X1102.86     39.   10194   10857    1003    1003    1003
X3    10
GR  90.9  9896.0    70.9  9898.0    65.9  9998.0    63.2 10027.0    59.6 10045.0
GR  59.6 10080.0    59.6 10134.0    59.6 10147.0    59.6 10194.0    56.5 10199.0
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GR  55.0 10240.0    56.7 10245.0    54.6 10263.0    48.5 10278.0    45.5 10290.0
GR  17.9 10339.0    16.0 10360.0    17.1 10380.0    14.9 10419.0    15.0 10439.0
GR  12.9 10480.0    14.0 10500.0    13.8 10560.0    12.9 10579.0     9.1 10620.0
GR   8.0 10638.0    14.0 10679.0    17.7 10718.0    37.7 10759.0    37.7 10778.0
GR  41.5 10784.0    48.2 10786.0    52.1 10807.0    56.2 10838.0    65.0 10857.0
GR  65.0 10897.0    65.0 10967.0    70.0 13967.0    90.0 13969.0
X1103.20     33.   10179   10678    1795    1795    1795
X3    10
GR  98.3  9947.0    78.3  9949.0    73.3 10049.0    67.3 10065.0    65.2 10096.0
GR  62.5 10105.0    62.3 10150.0    62.3 10179.0    23.2 10250.0    10.2 10270.0
GR   6.2 10291.0     5.1 10309.0     3.1 10329.0     6.1 10350.0     5.3 10370.0
GR   5.1 10410.0     7.0 10430.0     8.0 10449.0    10.0 10470.0    14.0 10489.0
GR  20.0 10530.0    21.0 10550.0    23.2 10569.0    37.1 10608.0    44.0 10629.0
GR  49.6 10647.0    57.1 10678.0    57.1 10699.0    57.1 10729.0    57.1 10749.0
GR  57.4 10799.0    62.4 13799.0    82.4 13801.0
X1105.70     43.   10198   10808   13199   13199   13199
X3    10
GR  86.2  9796.0    66.2  9798.0    61.2  9898.0    60.9  9948.0    59.2  9998.0
GR  59.1 10048.0    58.3 10098.0    58.4 10147.0    58.1 10198.0    52.1 10202.0
GR  40.4 10220.0    33.8 10240.0    25.0 10259.0    16.8 10279.0    13.0 10299.0
GR  10.9 10319.0     9.9 10339.0     9.8 10379.0     5.0 10399.0     2.9 10440.0
GR   7.0 10518.0    11.1 10539.0    13.0 10559.0    16.2 10580.0    18.0 10599.0
GR  25.8 10638.0    31.9 10660.0    34.8 10678.0    43.1 10699.0    51.3 10747.0
GR  57.8 10797.0    59.1 10808.0    59.5 10847.0    59.1 10897.0    59.1 10947.0
GR  59.1 10968.0    61.6 10998.0    59.6 11047.0    59.1 11058.0    59.1 11098.0
GR  59.1 11108.0    64.1 14108.0    84.1 14110.0
X1105.90     60. 10046.3 10648.1    1056    1056    1056
X3    10
GR  94.4  9669.1    74.4  9671.1    69.4  9771.1    66.6  9778.0    66.5  9798.8
GR  65.4  9807.7    65.4  9808.6    65.4  9819.4    65.4  9838.3    65.4  9859.2
GR  65.4  9865.8    65.4  9869.8    65.9  9879.8    65.4  9898.7    65.4  9948.9
GR  65.9 10022.4    65.4 10046.3    61.5 10053.1    51.4 10074.1    43.7 10102.6
GR  35.9 10117.7    29.9 10138.3    21.8 10158.9    11.9 10199.7     5.0 10219.4
GR   2.8 10239.1     2.1 10261.0    -4.1 10319.9    -5.1 10339.2    -5.1 10359.1
GR  -6.9 10379.9    -6.0 10399.3    -1.1 10419.4     7.1 10460.5     9.9 10479.5
GR  13.7 10499.0    19.0 10518.6    22.7 10539.1    33.2 10556.4    34.6 10560.9
GR  38.1 10578.0    41.5 10581.1    45.6 10597.6    51.2 10628.2    52.6 10648.1
GR  52.6 10698.3    52.6 10737.0    54.1 10757.0    56.2 10797.8    60.5 10827.3
GR  59.5 10846.7    58.6 10849.1    59.0 10852.1    62.4 10898.0    62.7 10923.3
GR  61.0 10947.6    57.8 10977.8    58.2 10998.2    63.2 13998.2    83.2 14000.2
X1106.10     35.   10203   10689    1056    1056    1056
X3    10
GR  78.2  9798.0    58.2  9800.0    53.2  9900.0    52.4  9929.0    56.4  9971.0
GR  51.8 10049.0    51.5 10099.0    52.2 10156.0    48.2 10203.0    44.8 10210.0
GR  30.5 10238.0    25.0 10260.0    19.0 10300.0    11.0 10339.0     7.0 10419.0
GR   5.1 10438.0     4.2 10458.0     4.0 10479.0     3.0 10500.0      .9 10520.0
GR   2.0 10540.0     5.9 10578.0    10.1 10599.0    23.5 10619.0    41.5 10648.0
GR  51.4 10667.0    56.1 10684.0    62.3 10689.0    62.3 10750.0    62.3 10848.0
GR  62.3 10898.0    62.3 10997.0    62.3 11004.0    67.3 14004.0    87.3 14006.0
X1106.30     43.   10226   10769    1056    1056    1056
X3    10
GR  83.7  9823.0    63.7  9825.0    58.7  9925.0    56.6  9964.0    56.6  9999.0
GR  56.6 10022.0    57.1 10049.0    58.3 10077.0    62.1 10101.0    59.1 10198.0
GR  56.6 10226.0    50.3 10248.0    41.4 10264.0    36.9 10268.0    34.3 10287.0
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GR  25.8 10309.0    20.7 10329.0    13.1 10348.0    10.0 10370.0     8.0 10410.0
GR   8.0 10428.0     5.9 10449.0     4.9 10469.0     -.1 10499.0    -2.2 10514.0
GR  -2.1 10531.0    -3.0 10550.0    -1.2 10589.0     1.5 10608.0    13.8 10628.0
GR  23.1 10649.0    36.9 10688.0    41.7 10694.0    45.0 10716.0    52.6 10747.0
GR  66.0 10769.0    66.0 10797.0    66.0 10849.0    66.0 10898.0    66.0 10949.0
GR  66.0 10999.0    71.0 13999.0    91.0 14001.0
X1106.50     34.   10148   10671    1056    1056    1056
X3    10
GR  87.8  9745.0    67.8  9747.0    62.8  9847.0    62.8  9889.0    62.8  9907.0
GR  62.8 10031.0    62.8 10051.0    62.8 10083.0    62.8 10148.0    49.4 10182.0
GR  37.1 10198.0    24.0 10240.0    10.2 10299.0    10.1 10319.0     5.0 10380.0
GR   5.3 10402.0     6.1 10418.0     4.2 10438.0     4.1 10480.0     3.1 10499.0
GR   3.9 10520.0    12.1 10560.0    21.2 10581.0    25.5 10601.0    40.5 10632.0
GR  41.3 10636.0    55.1 10653.0    58.9 10662.0    64.2 10671.0    64.4 10699.0
GR  64.2 10798.0    64.2 10899.0    69.2 13899.0    89.2 13901.0
X1106.70     42.   10123   10674    1056    1056    1056
X3    10
GR 132.7  9721.0   112.7  9723.0   107.7  9823.0    63.4  9848.0    63.5  9898.0
GR  63.1  9918.0    61.5  9948.0    61.5  9999.0    61.6 10049.0    62.0 10064.0
GR  61.5 10098.0    61.5 10123.0    53.4 10140.0    48.2 10158.0    33.5 10199.0
GR  27.9 10219.0    18.1 10240.0    17.0 10259.0    12.8 10280.0     9.9 10300.0
GR   6.1 10320.0     3.8 10361.0     3.9 10380.0     3.0 10400.0     2.8 10440.0
GR   -.1 10460.0    -1.2 10481.0    -1.1 10500.0     1.0 10520.0     7.0 10541.0
GR  39.8 10598.0    39.8 10619.0    50.0 10634.0    52.6 10645.0    57.2 10653.0
GR  63.3 10674.0    63.3 10699.0    63.3 10798.0    63.3 10899.0    63.3 10974.0
GR  68.3 13974.0    88.3 13976.0
X1106.90     42. 10006.2 10690.5    1056    1056    1056
X3    10
GR  88.8  9595.1    68.8  9597.1    63.8  9697.1    62.7  9727.5    57.0  9771.5
GR  56.3  9796.9    58.8  9847.9    58.9  9869.4    53.5  9896.9    53.5  9946.8
GR  53.6 10005.7    53.5 10006.2    46.6 10048.6    40.8 10077.7    35.5 10077.9
GR  31.2 10100.1    18.8 10138.7    16.5 10161.0    14.4 10199.3    14.5 10219.3
GR  13.7 10238.6     9.7 10279.8     5.7 10299.5     4.7 10320.4     2.8 10338.2
GR    .8 10379.0     2.8 10399.1     6.6 10419.7    17.6 10438.8    25.5 10458.7
GR  33.6 10499.1    39.4 10519.9    41.3 10534.5    43.1 10559.0    40.4 10598.7
GR  47.2 10636.5    49.3 10651.6    66.2 10690.5    66.2 10700.0    66.2 10852.1
GR  71.2 13852.1    91.2 13854.1
X1107.10     45.   10072   10762    1056    1056    1056
X3    10
GR  81.0  9318.0    61.0  9320.0    56.0  9420.0    54.6  9898.0    55.8  9949.0
GR  55.9  9967.0    58.9  9988.0    54.6 10033.0    54.6 10049.0    54.6 10072.0
GR  46.9 10149.0    40.9 10172.0    35.2 10180.0    31.5 10199.0    25.4 10220.0
GR  21.3 10240.0    19.5 10259.0    18.5 10278.0    16.4 10301.0    13.6 10359.0
GR  11.6 10380.0    10.5 10400.0    10.4 10419.0     9.6 10440.0     9.6 10480.0
GR   8.6 10501.0     8.7 10519.0     7.7 10539.0     9.8 10560.0    13.6 10599.0
GR  17.9 10620.0    23.8 10640.0    30.8 10660.0    34.8 10679.0    37.8 10698.0
GR  41.5 10700.0    54.7 10729.0    61.7 10743.0    65.4 10762.0    66.9 10899.0
GR  67.6 10979.0    66.4 11038.0    66.9 11168.0    71.9 14168.0    91.9 14170.0
X1107.50     42.    9998   10772    2112    2112    2112
X3    10
GR  97.6  9760.0    77.6  9762.0    72.6  9862.0    70.1  9876.0    69.7  9906.0
GR  67.3  9957.0    66.1  9998.0    61.5 10013.0    55.6 10056.0    53.0 10094.0
GR  42.3 10117.0    42.0 10182.0    41.4 10260.0    30.9 10279.0    22.2 10301.0
GR  22.0 10320.0    20.2 10340.0    19.2 10360.0    15.1 10400.0    13.9 10421.0
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GR  14.0 10460.0    11.1 10481.0    11.1 10520.0     9.0 10561.0     9.2 10580.0
GR   8.0 10601.0     9.3 10621.0    13.3 10659.0    17.9 10679.0    21.1 10699.0
GR  29.2 10720.0    34.9 10731.0    41.6 10758.0    54.5 10772.0    58.3 10839.0
GR  64.8 10874.0    65.7 10889.0    66.7 10939.0    63.9 10988.0    61.3 11071.0
GR  66.3 14071.0    86.3 14073.0
X1107.70     41.   10126   10649    1056    1056    1056
X3    10
GR  94.8  9916.0    74.8  9918.0    69.8 10018.0    67.0 10034.0    65.7 10060.0
GR  60.3 10083.0    60.3 10098.0    60.3 10126.0    50.1 10138.0    41.2 10153.0
GR  33.8 10158.0    28.6 10179.0    17.6 10200.0    15.8 10220.0    14.7 10239.0
GR   4.9 10260.0     6.8 10279.0     6.8 10320.0     8.8 10339.0     9.9 10359.0
GR   9.7 10380.0    12.7 10400.0    14.9 10419.0    17.7 10479.0    17.7 10501.0
GR  19.9 10520.0    22.9 10540.0    24.8 10559.0    30.5 10578.0    37.3 10598.0
GR  41.1 10604.0    44.8 10619.0    56.7 10649.0    56.7 10698.0    58.1 10748.0
GR  56.7 10798.0    57.0 10847.0    57.3 10896.0    59.1 10947.0    64.1 13947.0
GR  84.1 13949.0
X1107.90     38.   10144   10655    1056    1056    1056
X3    10
GR  98.6  9895.0    78.6  9897.0    73.6  9997.0    71.0 10002.0    67.1 10018.0
GR  65.4 10047.0    59.6 10070.0    59.4 10096.0    59.4 10144.0    55.8 10165.0
GR  55.2 10171.0    43.8 10186.0    35.2 10198.0    17.0 10240.0    13.0 10258.0
GR  10.0 10279.0     6.0 10299.0      .2 10319.0    -1.0 10338.0     9.1 10439.0
GR  10.2 10459.0    12.3 10479.0    15.9 10499.0    16.2 10519.0    22.1 10559.0
GR  30.2 10599.0    37.4 10625.0    41.8 10639.0    56.7 10655.0    59.6 10684.0
GR  63.8 10697.0    62.7 10747.0    61.7 10848.0    60.9 10882.0    56.7 10913.0
GR  56.9 10949.0    61.9 13949.0    81.9 13951.0
X1108.10     39.   10107   10598    1056    1056    1056
X3    10
GR  94.5  9897.0    74.5  9899.0    69.5  9999.0    66.0 10012.0    65.2 10040.0
GR  58.9 10070.0    57.1 10097.0    57.1 10107.0    49.6 10119.0    41.5 10130.0
GR  34.1 10139.0    27.9 10160.0    19.1 10180.0    14.2 10199.0     2.9 10220.0
GR  -5.0 10241.0    -7.8 10260.0    -7.8 10280.0    -4.8 10300.0      .5 10322.0
GR   8.2 10360.0    14.0 10419.0    17.0 10439.0    21.2 10479.0    26.7 10499.0
GR  34.0 10519.0    38.2 10538.0    41.7 10541.0    52.5 10574.0    57.1 10598.0
GR  57.1 10649.0    57.1 10674.0    57.1 10698.0    61.6 10739.0    57.8 10779.0
GR  57.1 10848.0    57.1 10898.0    62.1 13898.0    82.1 13900.0
X1108.50     33. 10121.3 10699.4    2112    2112    2112
X3    10
GR  96.0  9912.7    76.0  9914.7    71.0 10014.7    66.1 10031.3    64.8 10058.6
GR  60.4 10077.1    60.4 10092.5    63.8 10100.8    60.4 10121.3    46.3 10150.5
GR  43.2 10180.9    40.6 10186.4     9.1 10240.0     8.1 10260.9     8.3 10281.2
GR  12.4 10361.0    12.3 10381.4    15.3 10438.9    17.4 10459.2    18.4 10481.5
GR  18.3 10539.0    17.2 10558.4    33.8 10599.6    40.6 10619.8    43.1 10620.0
GR  60.3 10656.9    65.9 10699.4    65.9 10798.0    65.9 10901.0    65.9 10950.8
GR  65.9 10983.6    70.9 13983.6    90.9 13985.6
X1108.70     38.   10299   10799    1056    1056    1056
X3    10
GR  75.7 10073.0    55.7 10075.0    50.7 10175.0    50.1 10200.0    51.4 10233.0
GR  54.1 10244.0    53.9 10257.0    59.0 10276.0    47.8 10299.0    40.5 10330.0
GR  35.4 10339.0    28.1 10359.0    17.0 10380.0    10.9 10400.0    11.1 10440.0
GR   5.9 10461.0     7.2 10479.0     4.9 10501.0     3.9 10519.0     5.1 10540.0
GR   5.0 10561.0     7.1 10580.0     6.8 10602.0    11.1 10680.0    12.7 10699.0
GR  15.9 10719.0    19.9 10738.0    27.9 10758.0    33.8 10780.0    40.3 10790.0
GR  53.2 10799.0    61.0 10826.0    64.2 10843.0    63.7 10889.0    62.3 10897.0
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GR  56.2 10948.0    61.2 13948.0    81.2 13950.0
X1108.90     35.   10136   10684    1056    1056    1056
X3    10
GR  74.7  9937.0    54.7  9939.0    49.7 10039.0    46.6 10136.0    41.5 10159.0
GR  40.6 10160.0    36.1 10179.0    33.0 10199.0    28.0 10219.0    25.1 10239.0
GR  23.9 10259.0    20.0 10279.0    19.0 10299.0    16.0 10319.0    16.8 10338.0
GR  16.0 10359.0    15.9 10419.0    15.1 10439.0    13.0 10459.0    12.0 10479.0
GR   9.1 10499.0     7.0 10519.0    10.1 10539.0    12.1 10559.0    17.2 10578.0
GR  21.0 10598.0    32.1 10618.0    37.1 10638.0    40.5 10658.0    47.8 10674.0
GR  53.8 10684.0    58.4 10700.0    57.8 10799.0    62.8 13799.0    82.8 13801.0
X1109.20     40. 10339.5 10875.4    1584    1584    1584
X3    10
GR  80.2 10117.4    60.2 10119.4    55.2 10219.4    55.2 10249.8    55.2 10270.1
GR  55.2 10299.8    56.9 10320.6    56.8 10328.5    55.2 10339.5    50.4 10357.4
GR  40.1 10379.4    33.9 10399.4    23.9 10440.7    20.9 10460.6    15.9 10559.5
GR  12.8 10580.9    12.9 10599.8     8.9 10640.6     5.9 10659.5     5.9 10698.8
GR   4.8 10720.1     4.9 10739.0     6.7 10759.8    11.9 10780.1    22.8 10799.8
GR  29.7 10820.1    32.8 10839.9    40.1 10849.3    42.7 10850.0    48.6 10861.1
GR  54.3 10875.4    54.7 10899.7    55.8 10915.1    63.3 10949.8    63.6 10959.7
GR  63.6 10967.2    63.1 10973.1    64.3 10980.1    69.3 13980.1    89.3 13982.1
X1109.70     38.   10135   10659    2640    2640    2640
X3    10
GR  82.9  9848.0    62.9  9850.0    57.9  9950.0    59.6 10050.0    55.3 10087.0
GR  52.3 10100.0    50.2 10120.0    44.9 10135.0    41.5 10154.0    40.3 10160.0
GR  34.0 10180.0    30.1 10199.0    24.0 10220.0    20.9 10239.0    18.9 10280.0
GR  17.1 10300.0    13.9 10320.0    10.0 10360.0     8.9 10381.0     7.0 10402.0
GR   4.9 10421.0     5.0 10439.0     3.1 10461.0     4.1 10481.0     6.0 10500.0
GR  11.8 10520.0    13.8 10539.0    21.2 10562.0    25.9 10581.0    34.9 10600.0
GR  40.4 10619.0    41.6 10626.0    49.9 10630.0    55.6 10643.0    61.4 10659.0
GR  61.4 10699.0    66.4 13699.0    86.4 13701.0
X1110.10     36.   10150   10743    2112    2112    2112
X3    10
GR  90.4  9928.0    70.4  9930.0    65.4 10030.0    63.9 10059.0    58.0 10079.0
GR  57.7 10090.0    55.0 10100.0    56.0 10123.0    53.0 10150.0    42.5 10181.0
GR  40.3 10207.0    21.6 10241.0    18.7 10261.0    19.8 10281.0    18.7 10301.0
GR  11.7 10320.0     9.7 10341.0     8.8 10361.0     8.9 10399.0    10.0 10419.0
GR   8.7 10441.0     8.8 10479.0     5.6 10539.0     5.9 10561.0    18.2 10622.0
GR  20.1 10639.0    25.7 10656.0    30.7 10678.0    40.6 10691.0    50.3 10698.0
GR  57.1 10723.0    65.9 10743.0    67.1 10761.0    70.5 10773.0    75.5 13773.0
GR  95.5 13775.0
X1110.30     40.   10129   10710    1056    1056    1056
X3    10
GR  99.2  9895.0    79.2  9897.0    74.2  9997.0    63.0 10030.0    61.5 10047.0
GR  57.3 10084.0    57.1 10098.0    55.8 10129.0    53.0 10147.0    49.4 10186.0
GR  45.1 10197.0    40.6 10227.0    35.1 10236.0    29.8 10257.0    23.2 10275.0
GR  18.8 10298.0    14.9 10338.0    11.9 10398.0    11.9 10418.0     9.8 10439.0
GR   9.1 10457.0     9.8 10477.0     6.8 10539.0     5.1 10557.0     1.3 10578.0
GR   3.7 10596.0    10.1 10618.0    29.8 10657.0    40.6 10674.0    51.0 10697.0
GR  52.6 10710.0    52.6 10746.0    52.6 10792.0    52.6 10846.0    52.6 10914.0
GR  52.6 10937.0    52.6 10972.0    58.1 10998.0    63.1 13998.0    83.1 14000.0
X1110.50     29.   10220   10699    1056    1056    1056
X3    10
GR  85.2 10016.0    65.2 10018.0    60.2 10118.0    55.5 10150.0    55.6 10200.0
GR  53.5 10220.0    50.6 10238.0    40.4 10257.0    25.6 10301.0    13.6 10361.0
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GR  11.1 10378.0     4.8 10440.0     3.7 10459.0     4.0 10478.0     2.9 10498.0
GR   4.2 10520.0     2.9 10539.0     3.9 10559.0    15.9 10599.0    15.0 10619.0
GR  32.6 10657.0    40.6 10668.0    46.8 10688.0    48.6 10699.0    52.2 10748.0
GR  57.2 10796.0    63.8 10847.0    68.8 13847.0    88.8 13849.0
X1110.70     57.   10211   11350    1056    1056    1056
X3    10
GR  82.1  9945.0    62.1  9947.0    57.1 10047.0    59.4 10095.0    62.5 10141.0
GR  60.5 10146.0    55.7 10169.0    53.0 10211.0    40.8 10217.0    39.0 10237.0
GR  23.5 10258.0    14.1 10277.0    12.9 10297.0     7.2 10318.0     5.1 10337.0
GR   4.0 10357.0     3.9 10377.0     3.0 10397.0     3.1 10418.0     2.0 10438.0
GR  -2.0 10458.0    -5.0 10478.0    -6.1 10499.0   -13.9 10539.0   -12.1 10579.0
GR –12.9 10596.0   -12.8 10618.0   -11.8 10638.0    -8.8 10659.0    -7.8 10679.0
GR  -4.1 10697.0     1.0 10709.0     5.9 10739.0    15.9 10780.0    20.0 10798.0
GR  23.1 10818.0    26.8 10898.0    26.7 10939.0    28.8 10959.0    28.9 10998.0
GR  29.8 11018.0    29.8 11039.0    27.0 11096.0    26.9 11160.0    27.8 11179.0
GR  30.0 11199.0    32.8 11258.0    33.0 11278.0    40.4 11300.0    47.4 11315.0
GR  53.4 11341.0    54.4 11350.0    56.4 11398.0    59.0 11443.0    63.6 11495.0
GR  68.6 14495.0    88.6 14497.0
X1111.30     32.   10124   10650    3168    3168    3168
X3    10
GR  93.3  9924.0    73.3  9926.0    68.3 10026.0    65.7 10039.0    64.3 10063.0
GR  61.2 10065.0    58.9 10124.0    40.5 10158.0    32.9 10180.0    22.9 10219.0
GR  20.0 10240.0    16.1 10260.0    14.0 10280.0     9.9 10300.0     4.9 10321.0
GR   2.1 10339.0     0.0 10360.0     -.1 10380.0    -2.1 10399.0     5.9 10420.0
GR  15.0 10481.0    22.8 10559.0    26.9 10580.0    32.8 10600.0    34.8 10620.0
GR  40.4 10622.0    46.1 10629.0    50.4 10639.0    52.5 10650.0    60.0 10749.0
GR  65.0 13749.0    85.0 13751.0
X1111.70     40.   10110   10685    2112    2112    2112
X3    10
GR  87.7  9873.0    67.7  9875.0    62.7  9975.0    60.9 10000.0    61.1 10049.0
GR  61.8 10066.0    69.5 10100.0    57.4 10110.0    48.5 10131.0    40.9 10145.0
GR  33.2 10161.0    25.1 10180.0    18.0 10200.0    10.9 10220.0     7.0 10240.0
GR   6.1 10260.0     6.0 10279.0     2.0 10300.0     2.0 10320.0     3.1 10341.0
GR   7.1 10382.0    10.1 10400.0    10.1 10423.0    13.1 10481.0    13.2 10501.0
GR  14.2 10523.0    14.0 10580.0    17.8 10600.0    29.4 10619.0    34.9 10639.0
GR  40.7 10646.0    45.9 10658.0    55.7 10685.0    57.4 10698.0    63.6 10735.0
GR  61.5 10749.0    65.5 10799.0    58.3 10834.0    63.3 13834.0    83.3 13836.0
X1111.90     35.   10199   10699    1056    1056    1056
X3    10
GR  77.7  9968.0    57.7  9970.0    52.7 10070.0    48.2 10100.0    48.3 10150.0
GR  49.7 10169.0    47.9 10189.0    46.5 10199.0    40.3 10202.0    31.1 10218.0
GR  22.8 10239.0    14.8 10279.0    12.6 10299.0    12.8 10320.0    12.5 10400.0
GR  14.6 10439.0    14.9 10520.0    12.8 10540.0    13.9 10559.0    12.8 10579.0
GR  12.9 10601.0    14.9 10619.0    19.9 10639.0    28.0 10658.0    40.3 10693.0
GR  44.6 10699.0    46.4 10718.0    50.8 10749.0    60.5 10778.0    65.0 10784.0
GR  65.2 10798.0    63.6 10849.0    60.1 10898.0    65.1 13898.0    85.1 13900.0
X1112.10     37.   10104   10579    1056    1056    1056
X3    10
GR  84.3  9856.0    64.3  9858.0    59.3  9958.0    54.2  9993.0    54.2 10058.0
GR  53.8 10068.0    48.0 10090.0    45.9 10104.0    40.3 10109.0    32.9 10129.0
GR  20.9 10150.0    18.0 10168.0    16.0 10189.0    12.9 10209.0    12.0 10230.0
GR  12.1 10269.0    11.0 10289.0    11.0 10329.0    12.0 10350.0    12.2 10370.0
GR  11.0 10390.0    11.2 10410.0     8.1 10471.0     9.1 10495.0    12.9 10509.0
GR  15.8 10530.0    25.9 10551.0    46.7 10579.0    48.4 10600.0    53.2 10619.0
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GR  66.4 10640.0    66.0 10650.0    66.9 10700.0    67.2 10751.0    66.9 10754.0
GR  71.9 13754.0    91.9 13756.0
X1112.30     29.   10120   10706    1056    1056    1056
X3    10
GR  85.4  9830.0    65.4  9832.0    60.4  9932.0    60.4 10050.0    60.4 10080.0
GR  60.4 10100.0    60.4 10120.0    46.9 10148.0    40.3 10168.0    25.1 10239.0
GR  20.1 10260.0    11.9 10299.0     9.9 10344.0     6.9 10399.0     4.9 10420.0
GR   2.9 10460.0     2.9 10500.0     9.1 10518.0    13.0 10539.0    18.0 10559.0
GR  24.8 10579.0    35.0 10599.0    40.2 10640.0    45.5 10650.0    55.0 10689.0
GR  65.4 10706.0    65.4 10799.0    70.4 13799.0    90.4 13801.0
X1112.50     34.   10098   10698    1056    1056    1056
X3    10
GR  84.1  9875.0    64.1  9877.0    59.1  9977.0    59.1  9998.0    59.1 10049.0
GR  60.4 10077.0    59.1 10098.0    50.4 10119.0    34.9 10139.0    31.2 10159.0
GR  13.0 10200.0     7.0 10240.0     4.9 10290.0     2.9 10299.0     3.0 10320.0
GR   4.0 10340.0     1.9 10379.0     0.0 10398.0     3.1 10419.0     3.0 10440.0
GR   6.0 10455.0     7.0 10474.0    12.0 10501.0    32.1 10519.0    40.4 10579.0
GR  44.9 10599.0    44.8 10609.0    49.5 10648.0    59.6 10692.0    61.5 10698.0
GR  66.2 10747.0    73.7 10798.0    78.7 13798.0    98.7 13800.0
X1112.70     33.   10059   10585    1056    1056    1056
X3    10
GR  90.1  9847.0    70.1  9849.0    65.1  9949.0    65.1  9960.0    65.1  9989.0
GR  65.1  9999.0    65.3 10050.0    65.1 10059.0    40.2 10096.0    35.8 10108.0
GR  21.9 10168.0    18.8 10189.0    17.8 10209.0    11.8 10268.0     3.9 10288.0
GR  -2.1 10329.0    -9.2 10349.0    -4.1 10368.0    -2.3 10388.0     5.7 10429.0
GR  19.0 10468.0    29.9 10488.0    36.1 10507.0    36.8 10527.0    40.2 10544.0
GR  43.3 10549.0    48.9 10585.0    51.5 10606.0    56.4 10625.0    57.5 10699.0
GR  64.4 10723.0    69.4 13723.0    89.4 13725.0
X1112.90     44.   10051   10740    1056    1056    1056
X3    10
GR  91.0  9697.0    71.0  9699.0    66.0  9799.0    68.7  9819.0    63.7  9921.0
GR  60.6  9947.0    51.3  9967.0    52.4  9984.0    50.0  9999.0    49.2 10019.0
GR  45.7 10051.0    40.3 10056.0    37.0 10080.0    30.9 10101.0    23.0 10119.0
GR  17.9 10139.0    15.9 10161.0    14.9 10181.0    13.0 10201.0    12.9 10240.0
GR  10.9 10260.0    11.9 10279.0     8.9 10340.0     5.0 10381.0      .8 10400.0
GR  -3.0 10440.0    -3.1 10481.0    -1.1 10500.0     4.2 10520.0     7.9 10541.0
GR  25.1 10598.0    27.0 10620.0    31.0 10640.0    33.9 10661.0    37.9 10679.0
GR  40.4 10724.0    48.4 10740.0    51.8 10748.0    58.1 10773.0    56.6 10797.0
GR  59.0 10848.0    55.7 10867.0    60.7 13867.0    80.7 13869.0
X1113.30     33.   10076   10599    2112    2112    2112
X3    10
GR  96.2  9815.0    76.2  9817.0    71.2  9917.0    69.6  9921.0    68.2  9952.0
GR  65.5  9965.0    65.0 10024.0    67.7 10034.0    62.3 10076.0    59.6 10078.0
GR  49.4 10097.0    39.9 10109.0    33.0 10128.0    24.8 10149.0    13.0 10189.0
GR   8.8 10209.0     5.7 10229.0     3.8 10269.0     6.8 10330.0    12.0 10370.0
GR  20.0 10450.0    20.9 10471.0    26.6 10509.0    31.9 10529.0    40.2 10578.0
GR  47.7 10599.0    53.5 10648.0    55.3 10699.0    56.4 10747.0    56.3 10798.0
GR  56.1 10803.0    61.1 13803.0    81.1 13805.0
X1113.50     37.   10033   10587    1056    1056    1056
X3    10
GR  92.9  9830.0    72.9  9832.0    67.9  9932.0    67.3  9998.0    65.2 10033.0
GR  60.7 10048.0    56.2 10057.0    40.2 10080.0    34.0 10099.0    19.0 10138.0
GR  13.2 10159.0    10.0 10179.0     5.9 10198.0     5.0 10219.0     2.8 10238.0
GR   3.1 10259.0     1.8 10279.0     8.1 10318.0    10.0 10339.0    13.9 10360.0
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GR  18.1 10400.0    12.2 10418.0    24.1 10439.0    25.1 10459.0    26.9 10478.0
GR  27.8 10499.0    32.9 10517.0    35.9 10538.0    40.3 10545.0    48.2 10566.0
GR  53.2 10587.0    61.1 10671.0    62.2 10698.0    60.1 10747.0    60.5 10773.0
GR  65.5 13773.0    85.5 13775.0
X1113.90     36.   10270   10809    2112    2112    2112
X3    10
GR  83.5 10045.0    63.5 10047.0    58.5 10147.0    58.5 10198.0    60.7 10239.0
GR  58.5 10270.0    40.5 10300.0    30.3 10318.0    24.3 10339.0    20.2 10360.0
GR  12.2 10379.0    10.3 10400.0     9.3 10419.0     9.3 10439.0    11.3 10480.0
GR  11.2 10560.0    13.3 10580.0    14.1 10599.0    14.3 10619.0    15.4 10638.0
GR  15.5 10679.0    16.4 10699.0    18.4 10720.0    22.4 10741.0    32.4 10779.0
GR  40.7 10781.0    46.7 10790.0    50.6 10799.0    56.9 10809.0    63.0 10842.0
GR  62.1 10849.0    61.8 10899.0    63.1 10918.0    62.7 10949.0    67.7 13949.0
GR  87.7 13951.0
X1114.10     37.   10061   10678    1056    1056    1056
X3    10
GR  87.9  9856.0    67.9  9858.0    62.9  9958.0    63.2 10048.0    62.9 10061.0
GR  58.2 10079.0    52.0 10099.0    42.4 10149.0    34.9 10158.0    30.9 10179.0
GR  19.9 10199.0    15.9 10219.0    14.0 10238.0    13.1 10260.0    13.1 10279.0
GR   9.0 10319.0     9.0 10339.0     7.0 10360.0     9.2 10399.0    11.0 10418.0
GR  11.1 10479.0    13.2 10499.0    14.1 10519.0    14.2 10559.0    15.8 10579.0
GR  23.0 10599.0    33.3 10618.0    40.4 10635.0    46.5 10653.0    53.1 10678.0
GR  54.4 10698.0    62.0 10749.0    65.1 10786.0    65.8 10798.0    66.2 10848.0
GR  71.2 13848.0    91.2 13850.0
X1114.30     41.   10089   10770    1056    1056    1056
X3    10
GR  93.3  9821.0    73.3  9823.0    68.3  9923.0    64.5  9949.0    63.9 10024.0
GR  60.0 10049.0    55.4 10089.0    52.1 10098.0    45.9 10148.0    40.4 10174.0
GR  34.8 10189.0    31.2 10210.0    29.2 10229.0    26.2 10250.0    20.9 10270.0
GR  13.2 10309.0    16.1 10330.0    11.2 10350.0     2.1 10371.0      .1 10390.0
GR   5.1 10410.0     7.2 10451.0     5.1 10471.0     6.2 10490.0     5.1 10511.0
GR   8.2 10530.0     1.3 10551.0     4.2 10570.0    10.2 10630.0    14.4 10649.0
GR  24.2 10668.0    27.1 10688.0    35.2 10709.0    40.7 10719.0    53.1 10747.0
GR  65.3 10770.0    65.3 10798.0    65.5 10848.0    65.3 10873.0    70.3 13873.0
GR  90.3 13875.0
X1114.40     40.   10078   10676     528     528     528
X3    10
GR  82.1  9875.0    62.1  9877.0    57.1  9977.0    57.1  9998.0    57.1 10024.0
GR  59.0 10042.0    59.1 10047.0    57.1 10078.0    52.2 10098.0    40.3 10127.0
GR  36.0 10129.0    33.9 10148.0    27.0 10168.0    22.0 10189.0    16.0 10249.0
GR  13.8 10289.0    14.0 10309.0    13.1 10329.0    11.0 10349.0     8.0 10368.0
GR   7.1 10389.0     8.0 10410.0    10.2 10429.0    13.0 10448.0    14.2 10468.0
GR  14.1 10489.0    12.0 10528.0    12.1 10549.0    18.1 10569.0    18.1 10589.0
GR  28.0 10609.0    34.1 10628.0    44.2 10645.0    49.2 10653.0    61.5 10667.0
GR  66.4 10676.0    66.4 10747.0    66.4 10797.0    71.4 13797.0    91.4 13799.0
X1114.50     41.   10060   10664     528     528     528
X3    10
GR  89.6  9846.0    69.6  9848.0    64.6  9948.0    65.5  9998.0    64.6 10018.0
GR  64.6 10032.0    64.6 10049.0    64.6 10060.0    59.5 10068.0    49.0 10098.0
GR  42.9 10120.0    32.7 10127.0    21.0 10168.0    17.0 10209.0    12.9 10231.0
GR   2.8 10270.0     -.9 10289.0    -6.2 10310.0   -10.0 10329.0   -19.8 10350.0
GR -21.8 10371.0   -23.1 10390.0   -21.9 10411.0   -21.9 10430.0   -20.9 10450.0
GR -15.0 10470.0    -4.8 10490.0     2.0 10510.0    17.2 10529.0    28.1 10549.0
GR  38.0 10588.0    43.1 10597.0    44.2 10607.0    50.4 10618.0    56.8 10636.0
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GR  59.9 10649.0    64.5 10664.0    65.6 10699.0    64.8 10767.0    69.8 13767.0
GR  89.8 13769.0
X1114.70     40.   10037   10733    1056    1056    1056
X3    10
GR  87.2  9834.0    67.2  9836.0    62.2  9936.0    63.1  9947.0    63.2  9997.0
GR  62.2 10037.0    54.0 10066.0    47.0 10078.0    43.0 10096.0    30.9 10118.0
GR  22.9 10139.0    21.0 10158.0    15.9 10179.0    14.8 10199.0    10.9 10240.0
GR   7.8 10259.0     8.9 10279.0     8.9 10300.0     2.8 10359.0     3.0 10380.0
GR    .7 10399.0     1.0 10440.0     -.2 10460.0     -.2 10479.0     1.1 10499.0
GR   3.7 10519.0     8.8 10539.0    15.3 10560.0    23.7 10578.0    31.0 10599.0
GR  33.8 10618.0    43.1 10641.0    49.3 10678.0    56.5 10697.0    64.7 10733.0
GR  78.1 10750.0    80.3 10756.0    78.2 10797.0    83.2 13797.0   103.2 13799.0
X1114.90     35.   10074   10798    1056    1056    1056
X3    10
GR  94.7  9896.0    74.7  9898.0    69.7  9998.0    70.4 10049.0    69.7 10074.0
GR  64.3 10089.0    57.1 10100.0    47.2 10149.0    44.4 10190.0    43.1 10275.0
GR  33.1 10279.0    33.2 10299.0    27.9 10319.0    24.0 10340.0    21.0 10359.0
GR  15.2 10479.0    13.0 10520.0    11.1 10539.0     9.0 10579.0    11.1 10600.0
GR  15.1 10619.0    13.2 10660.0    11.3 10679.0    12.3 10700.0    16.2 10719.0
GR  21.2 10739.0    30.1 10744.0    43.3 10753.0    48.2 10769.0    53.4 10780.0
GR  60.9 10798.0    60.9 10848.0    60.9 10899.0    65.9 13899.0    85.9 13901.0
X1115.30     33.   10068   10741    2112    2112    2112
X3    10
GR  79.7  9867.0    59.7  9869.0    54.7  9969.0    54.7  9999.0    54.7 10048.0
GR  54.7 10068.0    49.1 10118.0    48.6 10149.0    42.5 10200.0    43.2 10223.0
GR  33.0 10238.0    27.0 10260.0    21.0 10273.0    16.0 10320.0    15.1 10339.0
GR  14.9 10380.0    12.9 10420.0    12.9 10459.0     9.9 10519.0     9.9 10540.0
GR   7.9 10560.0     4.9 10579.0     9.8 10599.0    12.0 10620.0    29.0 10660.0
GR  34.0 10680.0    49.7 10699.0    55.9 10716.0    63.7 10741.0    64.4 10799.0
GR  63.8 10849.0    68.8 13849.0    88.8 13851.0
X1115.90     37.   10068   10642    3168    3168    3168
X3    10
GR  88.5  9845.0    68.5  9847.0    63.5  9947.0    64.6  9998.0    61.9 10048.0
GR  60.1 10068.0    52.5 10089.0    47.5 10109.0    43.9 10129.0    43.0 10145.0
GR  34.8 10149.0    24.9 10169.0    11.9 10189.0     5.9 10209.0     4.0 10229.0
GR   4.0 10251.0    -1.2 10269.0      .9 10289.0     1.9 10310.0     2.0 10330.0
GR    .9 10349.0      .8 10410.0     -.2 10429.0     2.9 10449.0     4.7 10470.0
GR  11.9 10489.0    23.8 10529.0    33.1 10550.0    43.1 10556.0    42.0 10571.0
GR  42.3 10572.0    52.0 10599.0    65.0 10642.0    65.0 10698.0    65.0 10748.0
GR  70.0 13748.0    90.0 13750.0
X1116.10     34.   10104   10616    1056    1056    1056
X3    10
GR  90.1  9895.0    70.1  9897.0    65.1  9997.0    60.0 10046.0    58.5 10096.0
GR  58.5 10104.0    50.6 10117.0    44.1 10133.0    43.2 10157.0    35.0 10159.0
GR  28.9 10179.0    10.8 10219.0     3.8 10258.0     2.8 10278.0     2.9 10298.0
GR  -1.2 10319.0    -3.1 10340.0    -2.8 10359.0    -2.0 10379.0     1.9 10419.0
GR   5.9 10440.0     3.9 10459.0    10.1 10480.0    11.8 10500.0    16.6 10518.0
GR  33.8 10558.0    43.3 10566.0    40.7 10582.0    48.0 10603.0    56.2 10616.0
GR  61.9 10698.0    62.1 10718.0    67.1 13718.0    87.1 13720.0
X1116.30     31.   10023   10595    1056    1056    1056
X3    10
GR  87.4  9794.0    67.4  9796.0    62.4  9896.0    62.4  9947.0    63.5  9996.0
GR  62.4 10023.0    57.0 10047.0    44.6 10098.0    43.2 10110.0    34.1 10119.0
GR  10.8 10178.0     9.0 10219.0     5.0 10259.0     5.0 10278.0     2.8 10299.0
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GR   2.9 10379.0     3.8 10399.0     -.1 10419.0     1.9 10438.0     4.8 10459.0
GR   9.9 10479.0    18.0 10499.0    22.9 10519.0    34.0 10538.0    43.2 10545.0
GR  49.5 10558.0    55.6 10578.0    64.5 10595.0    64.5 10650.0    69.5 13650.0
GR  89.5 13652.0
X1116.70     40.   10048   11019    2112    2112    2112
X3    10
GR  82.8  9796.0    62.8  9798.0    57.8  9898.0    55.7  9948.0    56.0  9961.0
GR  51.3  9999.0    49.7 10048.0    43.6 10070.0    43.1 10082.0    34.8 10099.0
GR  27.8 10138.0    18.9 10221.0     3.9 10319.0     5.8 10339.0    10.0 10359.0
GR  12.8 10380.0    12.0 10398.0    19.1 10418.0    21.0 10458.0    23.1 10479.0
GR  25.0 10518.0    25.1 10539.0    23.0 10558.0    22.9 10639.0    24.1 10658.0
GR  24.1 10740.0    26.9 10759.0    28.0 10779.0    28.2 10819.0    32.0 10899.0
GR  31.0 10918.0    30.9 10938.0    32.1 10958.0    35.9 10979.0    43.3 11000.0
GR  42.4 11019.0    48.4 11029.0    68.1 11146.0    73.1 14146.0    93.1 14148.0
X1117.38     34.   10049   10804    3590    3590    3590
X3    10
X5     5      52      52      52      52      52
X5
GR  88.4  9847.0    68.4  9849.0    63.4  9949.0    63.1  9997.0    62.3 10025.0
GR  62.3 10049.0    27.0 10190.0    20.9 10230.0    20.9 10270.0    22.0 10289.0
GR  22.0 10310.0    20.1 10330.0    21.0 10348.0    21.0 10407.0    21.9 10428.0
GR  21.1 10449.0    21.0 10510.0    20.0 10530.0    20.9 10550.0    26.8 10570.0
GR  35.1 10590.0    38.1 10609.0    37.8 10709.0    37.0 10729.0    51.9 10789.0
GR  59.7 10804.0    60.0 10829.0    61.2 10848.0    66.7 10884.0    69.5 10908.0
GR  69.2 10913.0    70.0 10928.0    75.0 13928.0    95.0 13930.0
X1117.61     36.   10019   10777    1214    1214    1214
X3    10
GR  85.9  9796.0    65.9  9798.0    60.9  9898.0    64.8  9930.0    63.5  9949.0
GR  63.1  9974.0    60.9 10019.0    57.4 10033.0    51.8 10045.0    49.8 10058.0
GR  39.8 10098.0    33.9 10118.0    23.0 10179.0    23.0 10240.0    21.0 10279.0
GR  21.0 10300.0    22.1 10318.0    22.1 10359.0    21.0 10379.0    21.0 10399.0
GR  20.0 10420.0    20.1 10500.0    29.2 10518.0    35.9 10538.0    36.1 10578.0
GR  37.9 10618.0    36.8 10640.0    36.9 10698.0    42.8 10718.0    57.5 10777.0
GR  59.7 10794.0    59.6 10824.0    64.6 10854.0    76.8 10899.0    81.8 13899.0
GR 101.8 13901.0
X1117.86     36.   10054   10771    1320    1320    1320
X3    10
GR  91.0  9848.0    71.0  9850.0    66.0  9950.0    66.4 10048.0    66.0 10054.0
GR  57.1 10063.0    52.0 10074.0    43.1 10111.0    33.6 10131.0    23.0 10174.0
GR  17.0 10209.0    19.9 10229.0    18.0 10271.0    17.8 10293.0    17.0 10313.0
GR  16.9 10330.0    15.1 10351.0    15.0 10431.0    14.0 10451.0    14.2 10510.0
GR  15.0 10531.0    17.6 10549.0    35.1 10610.0    41.0 10649.0    43.0 10671.0
GR  44.1 10690.0    48.1 10709.0    48.6 10729.0    51.0 10752.0    52.2 10760.0
GR  54.6 10771.0    55.7 10800.0    55.3 10825.0    54.6 10841.0    59.6 13841.0
GR  79.6 13843.0
X1118.44     39.   10043   10782    3062    3062    3062
X3    10
GR 101.2  9802.0    81.2  9804.0    76.2  9904.0    72.0  9918.0    71.5  9939.0
GR  69.6  9953.0    69.6  9975.0    70.5  9999.0    70.5 10024.0    69.6 10043.0
GR  58.4 10073.0    52.1 10137.0    48.0 10159.0    29.8 10196.0    21.8 10219.0
GR  19.8 10241.0    19.0 10258.0    19.0 10279.0    17.0 10320.0    19.9 10378.0
GR  20.0 10419.0    17.9 10459.0    18.0 10539.0    18.9 10559.0    21.9 10580.0
GR  19.9 10620.0    22.0 10641.0    25.9 10658.0    27.8 10680.0    33.0 10698.0
GR  46.0 10717.0    52.1 10757.0    60.4 10768.0    65.7 10782.0    65.7 10807.0
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GR  65.7 10856.0    65.7 10881.0    70.7 13881.0    90.7 13883.0
X1118.63     47.   10019   10586    1003    1003    1003
X3    10
GR  96.3  9666.0    76.3  9668.0    71.3  9768.0    70.3  9794.0    67.3  9824.0
GR  67.3  9841.0    70.4  9849.0    69.1  9874.0    70.4  9899.0    69.1  9924.0
GR  68.9  9950.0    67.9  9974.0    62.6  9999.0    60.6 10019.0    56.2 10029.0
GR  52.2 10038.0    42.0 10069.0    32.0 10090.0    19.8 10104.0    14.9 10110.0
GR  10.9 10129.0    11.8 10151.0    13.8 10170.0    15.0 10189.0    15.0 10251.0
GR  14.0 10270.0    13.9 10310.0    14.8 10328.0    14.8 10390.0    16.0 10410.0
GR  15.9 10431.0    16.9 10450.0    19.0 10471.0    24.7 10509.0    31.0 10530.0
GR  43.3 10550.0    50.9 10569.0    52.1 10585.0    55.4 10586.0    57.6 10614.0
GR  60.7 10633.0    66.2 10649.0    66.0 10681.0    63.7 10707.0    62.0 10730.0
GR  67.0 13730.0    87.0 13732.0
X1118.82     40.   10044   10698    1003    1003    1003
X3    10
GR  94.7  9822.0    74.7  9824.0    69.7  9924.0    69.7  9949.0    69.7  9973.0
GR  69.7  9999.0    69.7 10023.0    69.7 10044.0    59.7 10059.0    51.9 10074.0
GR  50.9 10079.0    40.5 10099.0    21.9 10119.0    21.0 10139.0    18.0 10158.0
GR  15.9 10180.0    17.0 10199.0    16.9 10260.0    18.0 10279.0    24.0 10319.0
GR  24.9 10340.0    24.9 10359.0    26.0 10379.0    24.9 10399.0    25.1 10420.0
GR  28.8 10499.0    28.9 10559.0    29.8 10579.0    28.8 10599.0    29.9 10619.0
GR  35.1 10639.0    41.5 10653.0    51.0 10679.0    55.9 10698.0    55.9 10719.0
GR  55.9 10745.0    55.9 10769.0    57.5 10785.0    62.5 13785.0    82.5 13787.0
X1119.39     41.   30096   10641    3009    3009    3009
X3    10
GR  96.0  9846.0    76.0  9848.0    71.0  9948.0    71.1  9974.0    76.4  9998.0
GR  73.4 10013.0    71.6 10018.0    70.8 10036.0    65.1 10048.0    52.4 10074.0
GR  51.0 10079.0    36.9 10099.0    30.1 10109.0    13.2 10128.0     3.9 10140.0
GR  -1.0 10160.0    10.9 10240.0    12.0 10261.0    14.0 10280.0    15.0 10301.0
GR  19.2 10341.0    20.0 10360.0    22.9 10388.0    27.1 10421.0    28.0 10439.0
GR  27.9 10459.0    30.1 10481.0    31.2 10501.0    36.3 10520.0    45.1 10540.0
GR  51.1 10559.0    54.1 10579.0    54.4 10587.0    57.3 10606.0    61.5 10625.0
GR  64.7 10641.0    64.7 10661.0    64.7 10685.0    64.7 10698.0    69.7 13698.0
GR  89.7 13700.0
X1119.58     40.   10048   10644    1003    1003    1003
X3    10
GR  97.6  9861.0    77.6  9863.0    72.6  9963.0    69.6  9978.0    68.6  9992.0
GR  61.1 10023.0    58.8 10048.0    52.2 10060.0    50.9 10069.0    26.8 10088.0
GR  22.7 10111.0    18.9 10129.0    16.9 10150.0    16.1 10171.0    13.9 10190.0
GR  15.0 10211.0    15.0 10230.0    16.1 10249.0    16.0 10269.0    15.0 10289.0
GR  15.0 10310.0    16.0 10330.0    14.9 10350.0    17.0 10390.0    16.9 10409.0
GR  21.1 10450.0    21.0 10470.0    23.1 10510.0    29.2 10550.0    32.8 10569.0
GR  46.9 10590.0    50.9 10608.0    54.4 10631.0    59.2 10644.0    61.2 10676.0
GR  60.5 10694.0    61.3 10717.0    60.2 10736.0    65.2 13736.0    85.2 13738.0
X1119.60     41.   10046   10722     105     105     105
X3    10
GR  95.4  9870.0    75.4  9872.0    70.4  9972.0    76.3  9993.0    76.2  9998.0
GR  75.6 10005.0    69.5 10025.0    69.4 10029.0    67.5 10046.0    60.8 10061.0
GR  57.3 10099.0    54.4 10119.0    52.4 10122.0    46.9 10139.0    35.1 10160.0
GR  23.2 10180.0    18.1 10200.0    16.0 10240.0    16.0 10261.0    17.1 10279.0
GR  17.1 10319.0    20.1 10341.0    20.2 10380.0    21.0 10400.0    19.1 10439.0
GR  19.1 10460.0    20.9 10480.0    22.1 10500.0    21.9 10520.0    23.1 10540.0
GR  22.8 10580.0    24.9 10600.0    28.9 10619.0    40.0 10640.0    48.0 10659.0
GR  53.5 10678.0    57.1 10695.0    61.5 10722.0    61.6 10795.0    66.6 13795.0
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GR  86.6 13797.0
X1119.77     53.   10014   10989     897     897     897
X3    10
GR 101.2  9801.0    81.2  9803.0    76.2  9903.0    72.3  9916.0    69.0  9933.0
GR  69.1  9953.0    65.5  9974.0    64.3 10007.0    64.3 10014.0    57.1 10049.0
GR  52.2 10082.0    47.9 10100.0    45.9 10119.0    43.0 10139.0    43.0 10160.0
GR  44.1 10180.0    47.9 10220.0    50.9 10239.0    49.0 10260.0    31.1 10300.0
GR  26.0 10401.0    27.0 10421.0    24.8 10440.0    23.8 10461.0    22.0 10480.0
GR  24.0 10500.0    24.0 10520.0    22.9 10540.0    18.9 10620.0    18.9 10639.0
GR  17.9 10659.0    18.0 10700.0    16.9 10720.0    16.8 10740.0    17.7 10759.0
GR  15.7 10781.0    15.8 10801.0    17.0 10820.0    16.0 10840.0    16.9 10861.0
GR  20.0 10879.0    29.0 10899.0    34.9 10919.0    49.0 10938.0    52.9 10949.0
GR  55.4 10958.0    56.9 10968.0    59.6 10978.0    68.4 10989.0    68.4 11005.0
GR  68.4 11029.0    73.4 14029.0    93.4 14031.0
X1119.80     52.   10048   10916     158     158     158
X3    10
GR  86.4  9847.0    66.4  9849.0    61.4  9949.0    60.5  9999.0    59.2 10048.0
GR  54.5 10097.0    54.3 10102.0    52.1 10114.0    50.0 10129.0    49.9 10148.0
GR  49.0 10169.0    46.8 10190.0    43.9 10209.0    47.9 10229.0    49.8 10249.0
GR  47.9 10270.0    40.9 10289.0    38.9 10310.0    35.0 10329.0    28.9 10370.0
GR  26.9 10390.0    26.9 10410.0    23.9 10430.0    24.9 10451.0    22.9 10470.0
GR  22.9 10491.0    20.0 10550.0    17.9 10571.0    16.9 10590.0    14.8 10609.0
GR  14.0 10630.0     7.9 10690.0     4.8 10710.0     2.8 10730.0     3.8 10751.0
GR   2.8 10770.0     9.8 10789.0    14.7 10810.0    23.9 10830.0    48.8 10869.0
GR  52.2 10888.0    66.4 10916.0    67.4 10925.0    66.4 10935.0    66.4 10948.0
GR  66.6 10969.0    68.4 10997.0    74.1 11015.0    74.5 11026.0    67.5 11049.0
GR  72.5 14049.0    92.5 14051.0
X1120.00     47. 10057.9 10602.3    1056    1056    1056
X3    10
GR  86.4  9745.8    66.4  9747.8    61.4  9847.8    62.3  9872.7    62.1  9927.5
GR  61.4  9947.9    61.4  9952.4    57.4  9972.3    58.3  9984.3    56.9 10038.1
GR  56.9 10049.0    56.9 10057.9    55.3 10065.4    52.1 10071.5    46.8 10089.4
GR  36.9 10109.5    31.9 10129.5    24.8 10149.0    19.9 10169.0    19.8 10190.9
GR  18.8 10209.8    15.8 10230.3    15.0 10250.2     6.9 10290.6     4.7 10310.1
GR  -1.1 10349.5    -2.1 10370.4     2.1 10390.7    10.0 10410.5    17.0 10431.8
GR  34.8 10449.5    44.9 10469.3    48.1 10490.1    50.2 10509.0    50.2 10530.9
GR  52.3 10553.8    54.2 10562.7    67.8 10594.9    68.6 10602.3    69.6 10602.5
GR  72.4 10638.6    76.1 10650.0    79.6 10666.9    83.0 10685.8    86.1 10698.7
GR  91.1 13698.7   111.1 13700.7
X1120.20     37.   10065   10617    1056    1056    1056
X3    10
GR  84.9  9802.0    64.9  9804.0    59.9  9904.0    59.9 10005.0    59.9 10054.0
GR  59.9 10065.0    53.5 10077.0    53.4 10090.0    51.8 10098.0    42.6 10108.0
GR  30.0 10128.0    23.0 10149.0    24.1 10169.0    20.8 10190.0    18.0 10250.0
GR  18.1 10269.0    15.1 10289.0    14.1 10310.0    12.0 10331.0    11.0 10350.0
GR  10.8 10370.0     8.9 10409.0    15.1 10469.0    15.0 10489.0    19.1 10510.0
GR  30.0 10529.0    37.0 10550.0    47.1 10570.0    49.0 10589.0    52.4 10611.0
GR  54.8 10617.0    54.8 10654.0    54.8 10660.0    57.2 10673.0    61.8 10718.0
GR  66.8 13718.0    86.8 13720.0
X1120.40     39.   10049   10652    1056    1056    1056
X3    10
GR  90.4  9843.0    70.4  9845.0    65.4  9945.0    65.4  9997.0    65.8 10044.0
GR  65.4 10049.0    59.5 10072.0    52.3 10087.0    32.8 10107.0    24.1 10128.0
GR  14.0 10167.0    11.9 10189.0    14.2 10209.0    15.1 10228.0    15.2 10247.0
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GR  13.1 10268.0    16.2 10288.0    17.2 10310.0    17.2 10347.0    15.0 10388.0
GR  17.1 10409.0    18.0 10428.0    20.1 10449.0    21.1 10467.0    19.9 10487.0
GR  19.9 10507.0    22.0 10527.0    42.4 10566.0    46.1 10586.0    47.3 10606.0
GR  52.5 10626.0    55.9 10628.0    58.7 10643.0    60.5 10652.0    61.5 10675.0
GR  60.5 10696.0    60.5 10745.0    65.5 13745.0    85.5 13747.0
X1120.60     40.   10059   10670    1056    1056    1056
X3    10
GR  95.8  9847.0    75.8  9849.0    70.8  9949.0    69.6  9997.0    64.4 10046.0
GR  63.5 10059.0    58.7 10069.0    52.6 10099.0    50.9 10119.0    46.0 10139.0
GR  30.0 10159.0    21.9 10180.0    18.4 10199.0    16.4 10220.0    17.2 10240.0
GR  16.2 10258.0    17.1 10280.0    19.2 10300.0    18.2 10319.0    20.0 10340.0
GR  20.1 10398.0    21.0 10418.0    21.1 10459.0    20.2 10479.0    20.0 10499.0
GR  18.2 10519.0    20.3 10559.0    23.8 10577.0    28.8 10598.0    35.1 10619.0
GR  45.1 10638.0    48.1 10657.0    52.6 10667.0    57.2 10670.0    58.5 10678.0
GR  60.4 10697.0    58.5 10748.0    58.2 10777.0    63.2 13777.0    83.2 13779.0
X1120.80     40.   10050   10595    1056    1056    1056
X3    10
GR  84.3  9696.0    64.3  9698.0    59.3  9798.0    59.3  9847.0    59.3  9897.0
GR  59.5  9946.0    59.3  9981.0    59.3  9996.0    59.3 10008.0    59.3 10017.0
GR  59.6 10028.0    59.3 10050.0    54.3 10058.0    52.6 10069.0    52.2 10081.0
GR  50.0 10117.0    32.9 10137.0    14.0 10199.0    14.1 10277.0    16.0 10319.0
GR  16.1 10338.0    14.3 10357.0    13.1 10379.0    15.1 10399.0    12.8 10419.0
GR  11.1 10459.0    14.9 10500.0    20.9 10519.0    30.7 10540.0    37.9 10559.0
GR  52.0 10593.0    60.3 10595.0    71.8 10617.0    85.9 10632.0    89.2 10648.0
GR 111.8 10697.0   117.8 10718.0   112.8 10747.0   117.8 13747.0   137.8 13749.0
X1120.90     34.   10296   10796     528     528     528
X3    10
GR  88.7  9750.0    68.7  9752.0    63.7  9852.0    63.7  9880.0    63.7  9901.0
GR  63.7  9934.0    63.7 10003.0    63.7 10037.0    65.5 10080.0    64.9 10101.0
GR  63.7 10151.0    63.7 10201.0    63.7 10250.0    63.7 10296.0    59.0 10309.0
GR  44.8 10331.0    36.8 10351.0    30.7 10370.0    22.9 10412.0    20.9 10431.0
GR   8.9 10511.0    -1.3 10611.0    -6.0 10631.0     0.0 10670.0    19.9 10710.0
GR  19.8 10728.0    30.1 10750.0    38.6 10769.0    52.1 10783.0   103.3 10796.0
GR 108.3 10823.0   117.0 10848.0   122.0 13848.0   142.0 13850.0
X1121.00     52.   10042   11200     528     528     528
X3    10
GR  91.7  9823.0    71.7  9825.0    66.7  9925.0    66.7  9949.0    66.7 10000.0
GR  66.7 10042.0    62.0 10045.0    56.2 10059.0    52.4 10065.0    48.0 10079.0
GR  42.9 10099.0    33.8 10141.0    26.0 10179.0    15.9 10239.0    14.1 10259.0
GR  13.8 10300.0    15.0 10319.0    13.9 10340.0    16.0 10359.0    15.0 10379.0
GR  13.1 10400.0    10.9 10440.0    10.9 10459.0     9.9 10480.0    12.0 10500.0
GR  11.9 10540.0    14.0 10561.0    19.0 10581.0    22.1 10600.0    23.0 10619.0
GR  27.0 10640.0    30.3 10660.0    34.1 10680.0    37.1 10700.0    37.9 10719.0
GR  36.9 10739.0    41.2 10820.0    41.0 10839.0    42.0 10859.0    42.1 10900.0
GR  45.1 10960.0    42.1 11021.0    42.1 11040.0    43.1 11062.0    45.2 11080.0
GR  49.0 11099.0    52.3 11122.0    55.0 11170.0    63.1 11200.0    63.8 11300.0
GR  68.8 14300.0    88.8 14302.0
X1121.20     63. 10029.7 11249.0    1056    1056    1056
X3    10
GR  88.4  9847.8    68.4  9849.8    63.4  9949.8    63.4 10029.7    59.0 10034.8
GR  52.6 10041.0    34.2 10079.8    20.9 10100.1    15.9 10121.6    14.1 10140.5
GR  15.1 10161.3    15.2 10180.7    17.1 10201.0    18.2 10219.8    18.1 10261.0
GR  19.2 10279.8    18.1 10300.2    20.1 10320.5    20.1 10340.4    22.2 10380.5
GR  26.2 10420.6    26.1 10439.9    25.2 10460.3    26.3 10480.1    26.3 10501.0
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GR  27.4 10520.3    30.4 10539.1    34.1 10558.3    44.1 10578.8    50.2 10599.5
GR  50.1 10618.8    48.2 10640.2    47.3 10658.6    48.3 10679.4    48.4 10718.2
GR  49.4 10738.0    49.3 10798.1    50.3 10818.4    50.3 10838.2    45.4 10857.7
GR  42.1 10878.7    40.3 10897.1    42.6 10918.4    47.6 10938.1    48.3 10957.9
GR  47.1 10978.8    43.5 11018.1    45.5 11057.8    44.2 11078.2    45.4 11097.5
GR  45.2 11118.3    46.3 11137.2    46.4 11157.5    47.4 11178.3    51.3 11216.9
GR  53.0 11229.3    54.1 11230.2    56.9 11249.0    56.9 11297.7    56.9 11320.0
GR  60.9 11348.6    65.9 14348.6    85.9 14350.6
X1121.40     38.   10150   10701    1056    1056    1056
X3    10
GR  96.8  9940.0    76.8  9942.0    71.8 10042.0    76.6 10060.0    76.9 10069.0
GR  71.6 10088.0    70.7 10116.0    68.3 10126.0    68.1 10150.0    50.9 10170.0
GR  42.0 10190.0    21.3 10229.0     8.2 10270.0     7.4 10290.0     7.5 10308.0
GR   9.3 10330.0    10.1 10349.0     7.4 10369.0    13.0 10390.0    14.4 10411.0
GR  16.5 10431.0    18.2 10469.0    22.2 10509.0    25.1 10530.0    22.2 10550.0
GR  22.1 10570.0    28.1 10590.0    29.2 10610.0    32.0 10630.0    35.8 10650.0
GR  43.8 10670.0    49.7 10690.0    52.2 10692.0    55.9 10701.0    55.9 10751.0
GR  55.9 10806.0    60.9 13806.0    80.9 13808.0
X1121.80     40. 10096.7 10623.7    2112    2112    2112
X3    10
GR 102.8  9795.9    82.8  9797.9    77.8  9897.9    77.1  9902.9    66.7  9923.1
GR  69.1  9947.9    60.3  9976.6    58.6  9999.0    58.3 10021.9    55.8 10047.4
GR  57.7 10068.2    55.0 10096.7    52.5 10100.7    49.9 10118.2    33.0 10137.7
GR  25.4 10158.9    28.2 10177.2    23.1 10197.2    15.0 10218.9    15.2 10259.7
GR  17.3 10298.4    17.2 10316.8    15.2 10360.7    15.1 10398.5    13.2 10418.0
GR  13.2 10457.3    10.3 10476.3    19.0 10497.9    24.1 10518.6    27.2 10538.4
GR  34.0 10557.6    45.2 10577.6    50.8 10598.3    52.6 10606.2    56.6 10606.5
GR  65.5 10623.7    65.8 10649.0    65.5 10698.9    70.5 13698.9    90.5 13700.9
X1122.10     34.   10206   10745    1584    1584    1584
X3    10
GR  82.7  9948.0    62.7  9950.0    57.7 10050.0    55.4 10094.0    59.3 10150.0
GR  55.4 10206.0    38.9 10229.0    28.9 10250.0    25.9 10270.0    24.1 10289.0
GR  22.9 10310.0    22.8 10330.0    22.0 10349.0    15.9 10409.0    11.8 10490.0
GR  12.0 10509.0    12.7 10528.0    12.6 10550.0     7.9 10570.0     6.7 10589.0
GR   8.9 10611.0    10.6 10650.0    21.9 10670.0    27.0 10689.0    40.8 10708.0
GR  49.9 10729.0    52.4 10739.0    61.1 10745.0    67.1 10780.0    67.6 10789.0
GR  64.8 10838.0    64.4 10888.0    69.4 13888.0    89.4 13890.0
X1122.30     35.   10119   10710    1056    1056    1056
X3    10
GR  89.7  9899.0    69.7  9901.0    64.7 10001.0    64.7 10050.0    64.7 10099.0
GR  64.7 10119.0    56.3 10149.0    46.7 10171.0    32.4 10189.0    26.6 10211.0
GR  24.6 10230.0    24.5 10251.0    23.5 10269.0    23.8 10290.0    19.5 10371.0
GR  17.5 10390.0    16.7 10408.0    12.7 10449.0    12.7 10469.0     8.6 10489.0
GR   6.8 10527.0     6.5 10548.0     9.8 10568.0    11.6 10587.0    19.6 10609.0
GR  35.4 10626.0    48.7 10647.0    51.0 10667.0    52.2 10668.0    61.8 10696.0
GR  65.4 10710.0    65.4 10746.0    65.4 10771.0    70.4 13771.0    90.4 13773.0
X1122.50     27.   10133   10685    1056    1056    1056
X3    10
GR 101.6  9895.0    81.6  9897.0    76.6  9997.0    76.1 10006.0    71.0 10023.0
GR  68.1 10125.0    66.2 10133.0    44.0 10160.0    25.7 10199.0    19.4 10221.0
GR  19.4 10241.0    15.3 10280.0    15.3 10301.0    14.1 10320.0    14.1 10421.0
GR  13.4 10440.0    13.1 10460.0    12.2 10479.0    14.4 10521.0    21.2 10539.0
GR  51.3 10599.0    59.2 10685.0    59.2 10700.0    59.2 10749.0    59.2 10784.0
GR  64.2 13784.0    84.2 13786.0
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X1122.60     34.   10076   10580     528     528     528
X3    10
GR 101.8  9909.0    81.8  9911.0    76.8 10011.0    72.6 10027.0    71.8 10076.0
GR  66.8 10087.0    56.6 10099.0    43.3 10117.0    35.3 10138.0    29.0 10159.0
GR  25.1 10178.0    -6.9 10198.0   -15.1 10219.0   -17.8 10239.0   -19.9 10258.0
GR -19.0 10279.0   -16.9 10300.0    -9.0 10339.0     0.0 10360.0     4.0 10381.0
GR  12.8 10440.0    16.9 10461.0    22.7 10479.0    33.0 10500.0    40.6 10520.0
GR  47.6 10558.0    58.8 10564.0    62.6 10580.0    62.6 10600.0    62.6 10621.0
GR  66.5 10655.0    64.4 10701.0    69.4 13701.0    89.4 13703.0
X1122.80     44.   10067   10797    1056    1056    1056
X3    10
GR  85.2  9865.0    65.2  9867.0    60.2  9967.0    60.2  9997.0    60.3 10048.0
GR  60.2 10067.0    52.8 10077.0    47.4 10097.0    41.4 10117.0    34.1 10138.0
GR  34.2 10177.0    33.1 10198.0    26.1 10237.0    20.4 10256.0    13.5 10278.0
GR   5.1 10298.0    -8.8 10317.0   -12.9 10338.0   -13.9 10358.0   -18.0 10397.0
GR -19.0 10417.0   -18.8 10437.0   -20.9 10457.0   -21.1 10478.0   -19.9 10498.0
GR -17.0 10517.0   -10.0 10538.0     5.1 10557.0     7.0 10578.0     8.8 10617.0
GR  11.0 10638.0    15.1 10659.0    17.9 10678.0    25.7 10697.0    40.3 10738.0
GR  43.1 10757.0    48.0 10777.0    57.2 10787.0    63.5 10797.0    63.8 10822.0
GR  63.5 10871.0    63.5 10897.0    68.5 13897.0    88.5 13899.0
X1123.00     48.   10048   10930    1056    1056    1056
X3    10
GR  83.2  9851.0    63.2  9853.0    58.2  9953.0    58.2  9973.0    58.2  9998.0
GR  58.2 10048.0    55.1 10079.0    52.6 10108.0    52.6 10113.0    50.2 10128.0
GR  50.1 10148.0    49.1 10170.0    49.0 10189.0    47.3 10229.0    47.3 10289.0
GR  50.2 10308.0    50.0 10348.0    43.1 10369.0    35.0 10390.0    29.1 10409.0
GR  26.0 10430.0    24.1 10450.0    23.0 10470.0    24.3 10490.0    24.1 10512.0
GR  23.2 10530.0    23.0 10550.0    22.1 10570.0    22.0 10590.0    18.1 10630.0
GR  18.2 10651.0    19.2 10670.0    19.0 10709.0    20.0 10729.0    18.9 10751.0
GR  18.9 10769.0    17.0 10789.0    17.1 10811.0    23.1 10831.0    22.2 10849.0
GR  29.1 10869.0    34.9 10889.0    44.6 10909.0    63.1 10930.0    63.4 11000.0
GR  63.1 11050.0    68.1 14050.0    88.1 14052.0
X1123.18     36.   10171   10723     950     950     950
X3    10
GR  81.3  9747.0    61.3  9749.0    56.3  9849.0    55.7  9938.0    56.0 10047.0
GR  55.7 10091.0    56.2 10148.0    55.7 10171.0    52.1 10182.0    47.6 10188.0
GR  41.6 10209.0    32.6 10229.0    26.8 10249.0    24.6 10269.0    24.6 10289.0
GR  23.6 10309.0    19.7 10349.0    18.7 10370.0    19.7 10388.0    18.7 10410.0
GR  15.7 10469.0    13.6 10489.0    10.7 10509.0    10.6 10548.0     9.8 10569.0
GR  10.7 10589.0    13.6 10609.0    19.4 10629.0    24.6 10648.0    47.8 10690.0
GR  52.2 10708.0    67.3 10723.0    67.6 10749.0    67.3 10823.0    72.3 13823.0
GR  92.3 13825.0
X1123.38     31.   10051   10636    1056    1056    1056
X3    10
GR  85.4  9899.0    65.4  9901.0    60.4 10001.0    59.4 10051.0    55.5 10085.0
GR  52.3 10089.0    29.1 10138.0    20.1 10199.0    18.2 10220.0    17.1 10241.0
GR  17.2 10261.0    16.1 10280.0    16.1 10299.0    17.2 10321.0    15.1 10359.0
GR  15.2 10400.0    13.1 10420.0    14.2 10440.0    14.1 10462.0    13.0 10480.0
GR  11.1 10500.0    16.0 10519.0    35.2 10559.0    39.1 10578.0    42.0 10600.0
GR  55.2 10613.0    62.6 10636.0    65.4 10700.0    68.3 10738.0    73.3 13738.0
GR  93.3 13740.0
X1123.58     29.   10115   10704    1056    1056    1056
X3    10
GR  89.8  9914.0    69.8  9916.0    64.8 10016.0    55.3 10115.0    52.4 10119.0
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GR  48.8 10130.0    36.1 10150.0    29.1 10171.0    26.1 10190.0    26.1 10210.0
GR  23.9 10230.0    25.1 10250.0    25.0 10311.0    22.9 10350.0    23.0 10410.0
GR  24.9 10430.0    23.2 10470.0    18.9 10511.0    18.7 10589.0    19.8 10610.0
GR  23.9 10631.0    46.7 10670.0    52.8 10690.0    57.9 10695.0    59.9 10704.0
GR  60.7 10751.0    65.0 10806.0    70.0 13806.0    90.0 13808.0
X1123.78     34.   10116   10633    1056    1056    1056
X3    10
GR  86.5  9914.0    66.5  9916.0    61.5 10016.0    62.4 10050.0    55.7 10085.0
GR  54.3 10116.0    46.1 10130.0    36.9 10150.0    30.9 10169.0    24.7 10209.0
GR  24.9 10230.0    20.8 10270.0    20.8 10289.0    19.9 10310.0    19.8 10349.0
GR  18.7 10369.0    17.0 10389.0    16.7 10409.0    15.6 10430.0    13.7 10450.0
GR  11.7 10489.0    11.7 10510.0     9.8 10529.0    16.8 10549.0    26.7 10568.0
GR  41.0 10587.0    52.4 10608.0    56.7 10612.0    67.3 10633.0    68.0 10649.0
GR  67.3 10699.0    67.3 10734.0    72.3 13734.0    92.3 13736.0
X1123.96     32.   10071   10629     950     950     950
X3    10
GR  85.6  9872.0    65.6  9874.0    60.6  9974.0    60.6  9999.0    60.6 10071.0
GR  58.9 10087.0    55.8 10098.0    53.2 10113.0    52.4 10170.0    49.9 10178.0
GR  46.0 10199.0    18.0 10259.0    13.0 10279.0    10.9 10300.0    13.0 10319.0
GR  10.0 10339.0     3.9 10364.0    -1.2 10380.0   -12.2 10399.0   -15.0 10419.0
GR -15.2 10459.0   -14.1 10480.0   -10.1 10499.0    12.0 10540.0    30.9 10559.0
GR  52.4 10603.0    57.1 10623.0    65.1 10629.0    66.3 10700.0    65.5 10733.0
GR  70.5 13733.0    90.5 13735.0
X1124.15     32. 10191.8 10843.6    1003    1003    1003
X3    10
GR  91.2  9988.3    71.2  9990.3    66.2 10090.3    66.9 10150.5    66.2 10191.8
GR  50.1 10210.2    40.1 10228.1    28.1 10289.8    28.9 10309.7    16.0 10350.5
GR  15.0 10369.4    15.9 10389.8    16.1 10410.2    18.2 10450.9    18.2 10531.0
GR  20.1 10549.4    20.0 10570.3    19.0 10590.2    21.1 10629.9    22.9 10650.8
GR  23.9 10671.2    23.9 10711.0    27.8 10730.4    51.2 10789.5    52.5 10803.9
GR  59.6 10843.6    59.6 10850.1    61.2 10899.3    65.6 10949.0    65.4 10949.5
GR  70.4 13949.5    90.4 13951.5
X1124.35     30. 10037.8 10867.7    1056    1056    1056
X3    10
GR  89.7  9835.8    69.7  9837.8    64.7  9937.8    64.7 10037.8    52.5 10058.7
GR  44.9 10059.2    28.0 10099.5    22.8 10119.4    20.1 10139.3    22.8 10200.0
GR  23.0 10299.5    27.0 10379.6    29.0 10399.0    29.0 10459.7    30.9 10479.1
GR  35.0 10558.7    33.9 10579.1    33.9 10599.5    34.9 10618.9    35.0 10638.8
GR  37.7 10659.2    46.9 10679.1    50.0 10699.5    52.4 10710.0    58.1 10849.3
GR  60.6 10867.7    60.6 10900.0    61.1 10970.1    66.1 13970.1    86.1 13972.1
X1124.75     34. 10049.5 10530.1    2112    2112    2112
X3    10
GR  98.8  9867.3    78.8  9869.3    73.8  9969.3    69.5  9984.2    68.4 10013.4
GR  66.3 10027.3    61.2 10037.6    59.7 10049.5    49.0 10069.2    39.9 10089.3
GR  20.0 10109.3    10.1 10129.9      .9 10170.0     -.1 10189.8     4.0 10229.2
GR   8.0 10249.2    12.0 10289.5    13.0 10308.9    15.0 10329.8    18.0 10349.8
GR  18.9 10370.2    22.0 10389.1    24.2 10408.5    30.0 10448.9    37.1 10468.5
GR  46.1 10488.5    52.5 10506.1    60.5 10530.1    60.5 10548.4    60.5 10599.5
GR  60.5 10648.8    60.5 10648.9    65.5 13648.9    85.5 13650.9
X1124.95     32.   10088   10603    1056    1056    1056
X3    10
GR  93.5  9886.0    73.5  9888.0    68.5  9988.0    62.2 10048.0    62.2 10088.0
GR  52.5 10103.0    45.9 10109.0    30.8 10128.0    21.2 10149.0    19.0 10170.0
GR  11.9 10190.0    12.0 10209.0    10.0 10229.0     4.9 10249.0     3.9 10269.0
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GR   3.9 10289.0    12.9 10350.0    15.0 10389.0    14.1 10409.0    17.1 10430.0
GR  19.1 10448.0    26.9 10490.0    28.9 10508.0    32.1 10529.0    48.0 10568.0
GR  50.0 10588.0    52.4 10599.0    54.4 10603.0    54.4 10647.0    57.2 10703.0
GR  62.2 13703.0    82.2 13705.0
X1125.16     33.   10114   10621    1108    1108    1108
X3    10
GR  93.4  9912.0    73.4  9914.0    68.4 10014.0    68.4 10049.0    68.4 10080.0
GR  68.4 10114.0    52.4 10154.0    44.9 10170.0    23.1 10189.0    16.9 10209.0
GR   8.0 10249.0     5.1 10269.0     1.0 10290.0     2.2 10309.0     4.0 10330.0
GR  12.2 10369.0    13.2 10388.0    15.0 10409.0    14.9 10450.0    16.1 10469.0
GR  19.2 10490.0    20.0 10510.0    22.1 10530.0    26.0 10549.0    33.8 10569.0
GR  43.0 10589.0    52.2 10614.0    59.1 10621.0    59.5 10648.0    63.2 10698.0
GR  69.2 10723.0    74.2 13723.0    94.2 13725.0
X1125.36     32.   10076   10715    1056    1056    1056
X3    10
GR  87.5  9872.0    67.5  9874.0    62.5  9974.0    62.5  9998.0    62.5 10048.0
GR  62.5 10076.0    51.1 10158.0    50.7 10160.0    32.1 10199.0    29.8 10239.0
GR  27.9 10259.0    28.9 10279.0    23.9 10379.0    23.8 10419.0    22.9 10439.0
GR  22.9 10459.0    20.9 10499.0    21.1 10518.0    18.9 10539.0    18.9 10558.0
GR  17.0 10579.0    20.9 10599.0    22.9 10619.0    23.2 10620.0    29.0 10640.0
GR  38.0 10660.0    43.0 10679.0    68.6 10715.0    68.6 10750.0    68.6 10798.0
GR  73.6 13798.0    93.6 13800.0
X1125.56     36.   10073   10705    1056    1056    1056
X3    10
GR  84.0  9867.0    64.0  9869.0    59.0  9969.0    59.0  9999.0    59.0 10018.0
GR  59.0 10048.0    59.0 10073.0    52.7 10083.0    48.9 10097.0    39.0 10118.0
GR  34.2 10138.0    32.1 10158.0    30.1 10198.0    29.9 10218.0    25.9 10259.0
GR  24.9 10279.0    26.0 10299.0    25.9 10319.0    25.0 10340.0    26.0 10358.0
GR  25.1 10379.0    25.1 10459.0    23.8 10479.0    23.9 10519.0    21.9 10559.0
GR  23.0 10580.0    19.9 10601.0    22.9 10619.0    41.9 10659.0    44.8 10679.0
GR  52.6 10685.0    64.1 10704.0    64.0 10705.0    64.3 10799.0    69.3 13799.0
GR  89.3 13801.0
X1125.77     29.   10078   10708    1108    1108    1108
X3    10
GR  85.3  9896.0    65.3  9898.0    60.3  9998.0    58.4 10048.0    58.4 10078.0
GR  51.2 10108.0    45.1 10128.0    30.9 10169.0    22.0 10209.0    13.0 10269.0
GR  11.0 10309.0     4.1 10369.0     7.0 10389.0     6.0 10410.0     8.0 10448.0
GR   9.9 10469.0    13.0 10488.0    15.1 10509.0    21.1 10529.0    30.9 10550.0
GR  45.0 10569.0    50.0 10589.0    52.5 10591.0    53.6 10648.0    64.3 10693.0
GR  71.5 10708.0    71.5 10813.0    76.5 13813.0    96.5 13815.0
X1126.00     37.   10099   10673    1214    1214    1214
X3    10
GR  89.4  9895.0    69.4  9897.0    64.4  9997.0    64.4 10099.0    64.6 10105.0
GR  60.1 10114.0    56.7 10124.0    53.6 10148.0    52.6 10153.0    49.2 10159.0
GR  45.1 10173.0    34.2 10198.0    26.7 10219.0    21.8 10238.0    20.0 10258.0
GR  19.0 10279.0    18.9 10299.0    15.1 10320.0    14.9 10338.0    10.1 10359.0
GR   7.9 10400.0     7.9 10420.0     5.9 10440.0     5.9 10479.0    12.0 10518.0
GR  21.0 10538.0    28.0 10558.0    36.7 10577.0    43.8 10598.0    51.0 10638.0
GR  60.1 10661.0    66.5 10673.0    67.5 10697.0    67.0 10747.0    66.5 10772.0
GR  71.5 13772.0    91.5 13774.0
X1126.20     37.   10099   10767    1056    1056    1056
X3    10
GR  90.5  9997.0    70.5  9999.0    65.5 10099.0    64.6 10107.0    61.0 10123.0
GR  49.1 10200.0    39.0 10220.0    32.1 10240.0    28.0 10259.0    22.0 10280.0
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GR  17.0 10301.0    18.0 10320.0    18.2 10340.0    18.0 10360.0    19.2 10379.0
GR  19.0 10439.0    17.9 10460.0    15.1 10481.0    11.2 10500.0    12.2 10520.0
GR  13.0 10540.0    17.0 10561.0    23.2 10580.0    25.1 10600.0    33.1 10619.0
GR  46.2 10639.0    48.0 10660.0    49.2 10679.0    48.0 10699.0    50.1 10719.0
GR  52.5 10731.0    68.4 10767.0    68.7 10798.0    68.4 10849.0    68.7 10868.0
GR  73.7 13868.0    93.7 13870.0
X1126.41     40.   10114   10706    1108    1108    1108
X3    10
GR  80.9  9912.0    60.9  9914.0    55.9 10014.0    57.2 10048.0    60.4 10061.0
GR  57.0 10099.0    55.9 10114.0    52.5 10126.0    50.9 10139.0    43.0 10161.0
GR  34.0 10180.0    28.9 10200.0    27.1 10220.0    26.1 10239.0    26.0 10280.0
GR  25.1 10299.0    24.9 10320.0    21.2 10360.0    18.1 10379.0    21.0 10439.0
GR  18.9 10479.0    16.0 10539.0    14.0 10559.0    14.0 10579.0    18.9 10599.0
GR  26.1 10620.0    35.0 10639.0    45.9 10658.0    51.1 10679.0    52.3 10689.0
GR  57.8 10699.0    59.5 10706.0    59.5 10739.0    59.5 10749.0    59.5 10774.0
GR  59.5 10799.0    59.5 10810.0    59.5 10814.0    64.5 13814.0    84.5 13816.0
X1126.61     41.   10191   10760    1056    1056    1056
X3    10
GR  92.5  9971.0    72.5  9973.0    67.5 10073.0    67.5 10086.0    67.5 10098.0
GR  67.5 10147.0    68.4 10158.0    68.3 10175.0    67.5 10191.0    58.6 10211.0
GR  52.5 10219.0    46.0 10239.0    37.2 10258.0    29.1 10299.0    28.1 10319.0
GR  26.0 10339.0    23.2 10358.0    22.0 10379.0    20.2 10399.0    19.1 10419.0
GR  17.0 10439.0    17.1 10459.0    16.0 10478.0     8.0 10559.0     7.1 10580.0
GR  12.1 10600.0    16.0 10619.0    16.0 10640.0    16.9 10658.0    20.1 10678.0
GR  30.1 10699.0    39.0 10719.0    47.7 10739.0    52.3 10756.0    59.4 10760.0
GR  61.4 10774.0    66.8 10791.0    68.1 10798.0    65.4 10863.0    70.4 13863.0
GR  90.4 13865.0
X1126.80     35.   10133   10696    1003    1003    1003
X3    10
GR  90.3  9930.0    70.3  9932.0    65.3 10032.0    64.5 10054.0    63.0 10098.0
GR  63.0 10129.0    63.0 10133.0    52.3 10185.0    51.0 10198.0    44.9 10218.0
GR  37.0 10258.0    34.9 10278.0    31.7 10298.0    29.9 10318.0    26.9 10338.0
GR  22.9 10379.0    15.5 10421.0    12.9 10439.0    11.1 10458.0     7.0 10479.0
GR   4.9 10519.0     7.0 10539.0     7.8 10560.0     9.9 10579.0    14.0 10599.0
GR  40.8 10658.0    52.3 10666.0    71.8 10696.0    71.8 10699.0    71.8 10717.0
GR  71.8 10743.0    72.4 10761.0    74.1 10788.0    79.1 13788.0    99.1 13790.0
X1127.00     30.   10038   10727    1056    1056    1056
X3    10
GR  93.2  9836.0    73.2  9838.0    68.2  9938.0    67.1  9998.0    65.4 10038.0
GR  61.0 10052.0    52.7 10063.0    36.1 10099.0    31.0 10119.0    28.1 10138.0
GR  25.9 10180.0    22.9 10199.0    22.9 10219.0    22.0 10239.0    21.9 10279.0
GR  23.0 10298.0    23.2 10358.0    18.9 10439.0    15.1 10479.0    15.0 10499.0
GR  13.0 10538.0    16.0 10559.0    28.0 10619.0    47.0 10679.0    52.6 10699.0
GR  67.3 10727.0    67.3 10798.0    67.3 10827.0    72.3 13827.0    92.3 13829.0
X1127.20     45.   10023   10848    1056    1056    1056
X3    10
GR  92.3  9822.0    72.3  9824.0    67.3  9924.0    67.3 10023.0    60.9 10034.0
GR  52.9 10044.0    52.6 10046.0    50.0 10048.0    40.1 10069.0    33.1 10089.0
GR  22.0 10109.0    20.1 10129.0    19.9 10150.0    17.9 10189.0    20.9 10209.0
GR  21.9 10230.0    22.0 10249.0    20.0 10269.0    19.0 10289.0    20.0 10310.0
GR  21.9 10329.0    22.9 10349.0    23.0 10389.0    24.0 10409.0    22.1 10449.0
GR  21.0 10469.0    22.0 10489.0    26.1 10529.0    30.1 10549.0    33.1 10569.0
GR  37.1 10588.0    45.0 10608.0    42.9 10628.0    39.0 10649.0    42.1 10668.0
GR  45.0 10688.0    49.1 10729.0    49.2 10789.0    50.2 10809.0    52.1 10828.0
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GR  52.8 10838.0    60.1 10848.0    61.3 10868.0    66.3 13868.0    86.3 13870.0
X1127.60     39.   10099   10749    2112    2112    2112
X3    10
GR  97.5  9896.0    77.5  9898.0    72.5  9998.0    73.2 10013.0    72.5 10028.0
GR  72.5 10047.0    72.5 10086.0    72.5 10099.0    65.6 10114.0    52.6 10147.0
GR  51.9 10164.0    50.1 10183.0    40.9 10199.0    32.1 10219.0    20.0 10259.0
GR  15.8 10279.0    13.0 10299.0    12.8 10320.0    14.0 10339.0    12.8 10360.0
GR  14.8 10378.0    16.8 10418.0    19.2 10439.0    18.9 10461.0    21.0 10498.0
GR  19.0 10519.0    17.8 10540.0    20.7 10598.0    23.1 10619.0    37.2 10659.0
GR  48.9 10680.0    50.9 10699.0    52.4 10700.0    58.3 10749.0    60.3 10794.0
GR  60.8 10799.0    61.7 10848.0    66.7 13848.0    86.7 13850.0
X1127.80     40.   10106   10658    1056    1056    1056
X3    10
GR 100.4  9921.0    80.4  9923.0    75.4 10023.0    73.5 10039.0    73.5 10050.0
GR  73.5 10063.0    73.5 10074.0    73.5 10085.0    73.5 10093.0    73.5 10106.0
GR  65.2 10118.0    60.2 10124.0    52.6 10139.0    29.0 10179.0    21.8 10200.0
GR  18.1 10219.0     8.9 10239.0     8.0 10259.0     7.9 10278.0     9.0 10301.0
GR   9.0 10358.0    11.1 10399.0    11.1 10419.0    14.0 10439.0    13.9 10458.0
GR  15.9 10479.0    21.0 10499.0    31.0 10520.0    34.7 10538.0    50.0 10579.0
GR  52.2 10600.0    52.0 10619.0    55.7 10629.0    58.0 10639.0    61.6 10643.0
GR  63.8 10658.0    63.8 10700.0    63.8 10848.0    68.8 13848.0    88.8 13850.0
X1127.98     35.   10076   10624     950     950     950
X3    10
GR  89.5  9870.0    69.5  9872.0    64.5  9972.0    61.5  9991.0    60.9  9998.0
GR  60.3 10049.0    60.3 10076.0    55.9 10100.0    52.5 10104.0    48.1 10117.0
GR  36.9 10138.0    24.0 10158.0    17.9 10178.0    14.9 10199.0    15.9 10218.0
GR  16.0 10239.0    15.0 10259.0    20.0 10359.0    19.0 10378.0    19.0 10418.0
GR  16.9 10459.0    17.9 10478.0    17.2 10499.0    28.9 10539.0    45.0 10559.0
GR  52.0 10578.0    52.6 10586.0    56.7 10609.0    62.6 10624.0    65.2 10639.0
GR  65.5 10649.0    65.9 10698.0    66.9 10744.0    71.9 13744.0    91.9 13746.0
X1128.17     32. 10148.7 10680.3    1003    1003    1003
X3    10
GR  90.3  9947.0    70.3  9949.0    65.3 10049.0    60.2 10113.9    61.0 10138.2
GR  60.2 10148.7    52.4 10178.0    50.9 10178.6    45.0 10199.2    31.1 10219.2
GR  22.9 10239.0    23.0 10258.9    20.0 10279.7    18.9 10323.6    16.1 10378.7
GR  16.1 10420.1    15.0 10439.1    15.0 10499.9    13.9 10518.4    13.9 10539.4
GR  11.8 10560.0    12.9 10580.3    17.0 10600.3    50.0 10659.4    52.5 10670.0
GR  58.9 10680.3    62.3 10714.3    65.4 10725.9    65.5 10748.3    63.9 10784.3
GR  68.9 13784.3    88.9 13786.3
X1128.37     37.   10108   10692    1056    1056    1056
X3    10
GR 101.5  9905.0    81.5  9907.0    76.5 10007.0    73.5 10022.0    73.2 10067.0
GR  73.2 10078.0    73.5 10098.0    73.2 10108.0    62.0 10129.0    57.3 10148.0
GR  52.8 10158.0    48.9 10178.0    30.9 10219.0    24.0 10239.0    18.9 10259.0
GR  14.0 10298.0    15.1 10319.0    12.0 10339.0    14.9 10358.0    19.9 10417.0
GR  22.2 10459.0    22.0 10483.0    23.0 10499.0    23.1 10538.0    23.9 10557.0
GR  26.9 10587.0    31.0 10618.0    36.8 10638.0    45.0 10658.0    50.1 10677.0
GR  59.4 10692.0    60.5 10721.0    62.5 10732.0    60.4 10757.0    62.3 10797.0
GR  67.3 13797.0    87.3 13799.0
X1128.78     47.   10050   10838    2164    2164    2164
X3    10
GR 100.5  9898.0    80.5  9900.0    75.5 10000.0    78.1 10007.0    78.0 10017.0
GR  73.8 10030.0    71.8 10050.0    62.4 10085.0    58.6 10141.0    56.6 10158.0
GR  55.0 10193.0    52.6 10202.0    52.0 10219.0    50.2 10239.0    48.9 10259.0
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GR  45.9 10280.0    40.0 10300.0    32.0 10320.0    26.0 10340.0    22.0 10359.0
GR  19.0 10379.0    17.0 10399.0    15.9 10419.0    15.9 10439.0    18.0 10479.0
GR  17.9 10499.0    16.9 10520.0    16.9 10559.0    15.9 10579.0    17.9 10619.0
GR  17.9 10685.0    22.9 10719.0    28.8 10739.0    34.0 10759.0    42.9 10778.0
GR  48.6 10799.0    52.5 10804.0    56.0 10808.0    59.9 10812.0    63.7 10828.0
GR  66.7 10838.0    67.4 10865.0    66.7 10888.0    66.7 10899.0    66.7 10924.0
GR  71.7 13924.0    91.7 13926.0
X1128.98     34.   10068   10644    1056    1056    1056
X3    10
GR  83.9  9797.0    63.9  9799.0    58.9  9899.0    58.9  9929.0    60.3  9953.0
GR  59.8  9968.0    60.9  9974.0    59.8  9999.0    58.9 10044.0    58.9 10068.0
GR  52.4 10087.0    51.9 10099.0    39.8 10119.0    34.7 10139.0    31.9 10160.0
GR  29.9 10180.0    27.0 10239.0    26.9 10259.0    25.0 10279.0    24.0 10300.0
GR  22.0 10319.0    17.0 10420.0    15.1 10439.0    11.1 10519.0    14.0 10539.0
GR  21.0 10559.0    50.9 10618.0    52.2 10627.0    63.7 10644.0    65.6 10656.0
GR  65.6 10698.0    64.6 10757.0    69.6 13757.0    89.6 13759.0
X1129.08     43. 10122.3 10623.9     528     528     528
X3    10
GR  86.6  9923.6    66.6  9925.6    61.6 10025.6    64.8 10050.9    64.5 10055.9
GR  61.1 10078.6    61.1 10097.6    61.1 10122.3    52.6 10137.7    51.0 10137.8
GR  47.8 10158.4    42.8 10179.1    25.7 10217.9    22.9 10239.0    18.9 10258.1
GR  17.8 10278.1    17.9 10298.1    15.9 10340.0    11.8 10359.2     9.7 10397.7
GR  10.9 10419.0     6.9 10438.7     6.8 10460.1     8.6 10479.4    11.6 10499.2
GR  33.0 10519.0    34.7 10537.9    37.7 10558.6    43.7 10577.8    46.8 10598.0
GR  52.5 10600.2    62.3 10607.2    67.1 10623.9    68.5 10639.2    74.0 10668.3
GR  73.9 10678.3    78.0 10698.0    78.6 10708.0    80.3 10709.9    85.7 10740.5
GR  88.1 10768.9    93.1 13768.9   113.1 13770.9
X1129.28     35.   10163   10648    1056    1056    1056
X3    10
GR  87.1  9956.0    67.1  9958.0    62.1 10058.0    60.8 10073.0    61.3 10081.0
GR  64.8 10099.0    65.6 10109.0    62.3 10140.0    59.2 10163.0    56.2 10167.0
GR  52.4 10169.0    51.0 10179.0    44.0 10198.0    27.0 10239.0    22.1 10259.0
GR  14.0 10339.0    11.1 10360.0     9.0 10399.0     6.1 10420.0     2.1 10440.0
GR   3.0 10460.0     9.0 10479.0    12.0 10499.0    17.2 10519.0    34.1 10538.0
GR  36.1 10559.0    40.2 10579.0    49.1 10598.0    52.5 10609.0    61.5 10628.0
GR  66.2 10642.0    67.4 10648.0    67.4 10698.0    72.4 13698.0    92.4 13700.0
X1129.48     44. 10073.8 10633.4    1056    1056    1056
X3    10
GR  91.5  9596.8    71.5  9598.8    66.5  9698.8    66.5  9717.7    66.5  9724.7
GR  66.5  9753.0    66.5  9774.3    66.5  9798.7    66.5  9858.9    66.5  9899.1
GR  66.5  9918.5    67.2  9991.2    67.3  9998.2    66.5 10045.4    66.5 10073.8
GR  66.2 10090.2    60.2 10100.0    52.6 10118.2    51.0 10119.1    46.9 10139.4
GR  42.0 10159.7    30.0 10200.6    23.2 10218.4    21.1 10238.7    18.0 10299.8
GR  16.0 10320.1    17.1 10339.5    17.0 10399.7    15.8 10420.6    14.0 10439.9
GR  13.8 10480.2    12.9 10500.0    14.9 10540.4    26.8 10560.6    41.8 10579.8
GR  51.7 10603.9    55.1 10611.5    57.8 10633.4    59.7 10673.3    66.1 10698.3
GR  67.2 10707.3    67.4 10728.6    72.4 13728.6    92.4 13730.6
X1129.68     37.   10061   10597    1056    1056    1056
X3    10
GR  89.7  9856.0    69.7  9858.0    64.7  9958.0    64.7  9990.0    64.7  9998.0
GR  66.7 10040.0    64.7 10061.0    58.9 10078.0    52.6 10096.0    48.8 10099.0
GR  44.1 10118.0    38.1 10138.0    35.0 10159.0    31.0 10198.0    25.1 10218.0
GR  25.0 10238.0    24.0 10264.0    23.0 10284.0    20.9 10299.0    17.2 10339.0
GR  16.1 10360.0    11.1 10399.0     9.0 10419.0     9.1 10439.0    10.0 10458.0
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GR  15.9 10478.0    24.0 10519.0    33.0 10538.0    41.1 10559.0    47.9 10577.0
GR  56.8 10578.0    64.4 10597.0    67.8 10621.0    67.5 10646.0    68.1 10697.0
GR  73.1 13697.0    93.1 13699.0
X1129.88     36.   10157   10613    1056    1056    1056
X3    10
GR  92.6  9911.0    72.6  9913.0    67.6 10013.0    67.5 10040.0    65.8 10066.0
GR  69.6 10117.0    63.8 10127.0    60.9 10157.0    56.2 10174.0    49.8 10178.0
GR  36.0 10218.0    24.9 10238.0    17.6 10258.0     6.7 10298.0     2.0 10318.0
GR  -7.9 10338.0   -13.1 10359.0   -15.1 10378.0   -15.9 10399.0   -16.1 10418.0
GR  -3.5 10478.0    17.2 10498.0    21.0 10517.0    22.0 10538.0    25.6 10558.0
GR  34.8 10578.0    38.7 10598.0    52.8 10599.0    70.1 10613.0    77.2 10627.0
GR  94.1 10673.0   102.3 10698.0   105.3 10717.0    95.9 10752.0   100.9 13752.0
GR 120.9 13754.0
X1130.08     44. 10022.9 10769.0    1056    1056    1056
X3    10
GR  94.4  9795.9    74.4  9797.9    69.4  9897.9    69.4  9947.4    69.4  9967.3
GR  69.4  9995.1    69.4 10022.9    63.4 10029.5    57.1 10040.1    52.4 10057.4
GR  50.8 10058.1    46.9 10078.9    41.0 10098.4    25.1 10138.8    20.1 10159.2
GR  20.0 10178.6    17.9 10219.6    16.0 10240.2    15.1 10259.7    12.0 10279.4
GR  11.0 10300.4     4.9 10358.7     5.1 10380.6     2.0 10399.3     1.9 10439.6
GR   2.8 10459.4     5.0 10480.1    20.1 10519.4    26.1 10540.2    31.1 10559.6
GR  35.7 10579.5    41.9 10638.6    44.9 10699.5    47.1 10718.7    51.1 10739.2
GR  51.2 10759.1    52.8 10763.9    56.2 10769.0    56.9 10779.9    60.4 10798.9
GR  62.9 10829.0    65.1 10867.1    70.1 13867.1    90.1 13869.1
X1130.28     36.   10060   10683    1056    1056    1056
X3    10
GR  96.8  9847.0    76.8  9849.0    71.8  9949.0    71.4 10033.0    70.1 10060.0
GR  63.3 10068.0    55.7 10098.0    52.5 10099.0    39.1 10120.0    28.7 10139.0
GR  20.7 10159.0    10.9 10200.0     9.8 10220.0    11.0 10241.0    14.8 10277.0
GR  15.0 10299.0    17.1 10339.0    19.0 10357.0    21.1 10397.0    21.0 10459.0
GR  20.0 10478.0    20.9 10497.0    25.9 10519.0    29.8 10537.0    50.6 10598.0
GR  52.7 10609.0    56.3 10663.0    59.6 10683.0    60.7 10692.0    60.3 10711.0
GR  59.6 10735.0    59.6 10757.0    60.1 10782.0    60.0 10798.0    65.0 13798.0
GR  85.0 13800.0
X1130.48     42.   10103   10749    1056    1056    1056
X3    10
GR  97.7  9796.0    77.7  9798.0    72.7  9898.0    74.2  9928.0    78.9  9948.0
GR  78.6  9958.0    73.8  9973.0    72.7  9997.0    72.7 10004.0    72.7 10038.0
GR  73.1 10049.0    72.7 10103.0    58.4 10126.0    53.3 10160.0    24.4 10221.0
GR  23.2 10240.0    14.3 10260.0    17.2 10280.0    16.2 10300.0    18.3 10319.0
GR  18.2 10380.0    20.1 10420.0    20.2 10442.0    21.0 10460.0    23.2 10480.0
GR  25.2 10520.0    25.2 10581.0    24.2 10601.0    28.3 10620.0    33.1 10639.0
GR  44.7 10660.0    50.6 10679.0    53.6 10688.0    57.3 10700.0    58.5 10714.0
GR  62.5 10741.0    64.6 10749.0    64.6 10772.0    64.6 10799.0    64.6 10855.0
GR  69.6 13855.0    89.6 13857.0
X1130.65     42. 10047.4 10636.1     897     897     897
X3    10
GR  95.3  9758.8    75.3  9760.8    70.3  9860.8    68.6  9896.8    68.2  9913.7
GR  66.8  9930.1    66.8  9950.3    66.8  9975.2    66.8  9998.2    66.8 10016.1
GR  66.8 10035.2    66.8 10047.4    59.2 10062.1    53.1 10079.4    48.2 10098.5
GR  35.1 10139.5    30.1 10158.6    22.1 10178.9    16.4 10198.1    13.4 10219.2
GR  16.4 10239.5    13.3 10258.0    14.2 10277.9    14.2 10319.8    15.3 10339.7
GR  19.2 10379.9    21.2 10419.7    21.2 10439.1    20.0 10459.1    20.1 10498.9
GR  23.1 10519.7    31.2 10539.3    41.2 10559.8    47.1 10578.0    53.0 10607.6
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GR  56.2 10608.5    61.9 10636.1    61.9 10656.1    63.3 10699.3    63.2 10738.7
GR  68.2 13738.7    88.2 13740.7
X1130.80     40.   10116   10665     792     792     792
X3    10
GR  98.6  9868.0    78.6  9870.0    73.6  9970.0    69.5  9984.0    68.9  9998.0
GR  68.9 10008.0    68.9 10053.0    68.9 10066.0    68.9 10081.0    69.9 10095.0
GR  68.9 10116.0    62.8 10130.0    52.4 10143.0    49.0 10159.0    41.9 10179.0
GR  28.0 10200.0    22.0 10220.0    13.2 10259.0    13.9 10290.0    16.0 10300.0
GR  15.8 10340.0    13.9 10359.0    16.1 10379.0    15.9 10421.0    16.8 10440.0
GR  20.0 10459.0    21.8 10499.0    21.8 10520.0    22.9 10539.0    26.9 10559.0
GR  28.9 10579.0    36.6 10600.0    49.9 10619.0    52.5 10631.0    60.5 10656.0
GR  64.7 10665.0    66.6 10701.0    64.7 10765.0    69.7 13765.0    89.7 13767.0
X1131.00     42.   10015   10609    1056    1056    1056
X3    10
GR 104.6  9795.0    84.6  9797.0    79.6  9897.0    69.3  9986.0    69.3  9996.0
GR  69.3 10015.0    65.0 10036.0    60.5 10047.0    58.2 10058.0    52.4 10062.0
GR  46.6 10077.0    23.0 10117.0    20.8 10138.0    15.8 10158.0    17.9 10178.0
GR  18.9 10197.0    18.1 10238.0    22.0 10278.0    23.2 10298.0    25.1 10318.0
GR  25.1 10338.0    26.1 10357.0    25.3 10377.0    26.4 10398.0    29.2 10416.0
GR  30.2 10437.0    32.2 10457.0    32.9 10477.0    31.9 10497.0    32.1 10517.0
GR  31.0 10537.0    32.1 10557.0    40.6 10575.0    47.6 10596.0    52.8 10599.0
GR  60.1 10609.0    63.0 10629.0    60.1 10688.0    60.1 10697.0    60.1 10710.0
GR  65.1 13710.0    85.1 13712.0
X1131.20     45.   10097   10765    1056    1056    1056
X3    10
GR 103.1  9897.0    83.1  9899.0    78.1  9999.0    77.8 10006.0    71.4 10026.0
GR  69.6 10049.0    66.2 10066.0    63.9 10089.0    62.9 10097.0    59.8 10099.0
GR  52.3 10109.0    50.9 10118.0    44.8 10138.0    34.8 10159.0    28.7 10180.0
GR  18.0 10199.0    -7.2 10219.0   -19.9 10259.0   -25.1 10279.0   -26.0 10300.0
GR -25.9 10319.0   -22.0 10339.0   -26.9 10358.0   -22.8 10399.0   -17.9 10418.0
GR -14.1 10438.0   -11.0 10459.0    -6.9 10478.0     4.0 10498.0    21.7 10557.0
GR  28.7 10577.0    31.6 10596.0    37.7 10615.0    45.8 10636.0    48.6 10657.0
GR  48.0 10676.0    47.9 10696.0    49.7 10717.0    52.2 10733.0    63.7 10765.0
GR  64.7 10798.0    63.7 10846.0    64.0 10867.0    69.0 13867.0    89.0 13869.0
X1132.00     38.   10134   10750    4224    4224    4224
X3    10
GR  92.2  9918.0    72.2  9920.0    67.2 10020.0    67.2 10069.0    67.2 10134.0
GR  52.7 10148.0    49.0 10170.0    40.0 10190.0    35.0 10210.0    26.0 10231.0
GR  18.1 10249.0    14.1 10269.0    15.0 10289.0    18.2 10309.0    17.2 10330.0
GR  17.0 10350.0    17.9 10370.0    18.1 10389.0    19.1 10409.0    19.1 10430.0
GR  17.1 10450.0    16.8 10470.0    18.1 10490.0    18.1 10510.0    17.0 10530.0
GR  17.9 10550.0    25.1 10570.0    34.8 10590.0    47.0 10611.0    50.7 10649.0
GR  52.6 10662.0    54.8 10665.0    54.4 10679.0    55.3 10710.0    67.7 10750.0
GR  67.7 10851.0    72.7 13851.0    92.7 13853.0
X1132.18     39.   10112   10757     950     950     950
X3    10
GR 103.6  9895.0    83.6  9897.0    78.6  9997.0    65.5 10049.0    65.5 10112.0
GR  52.9 10142.0    52.2 10150.0    49.1 10170.0    45.0 10209.0    44.1 10229.0
GR  39.2 10249.0    33.2 10269.0    28.0 10288.0    20.0 10329.0    19.2 10349.0
GR  18.9 10369.0    20.0 10389.0    16.0 10409.0    17.0 10429.0    17.1 10469.0
GR  18.0 10489.0    17.0 10509.0    18.9 10529.0    20.0 10549.0    20.0 10629.0
GR  23.2 10649.0    41.1 10689.0    47.1 10709.0    52.0 10729.0    52.8 10744.0
GR  57.3 10757.0    57.3 10779.0    58.7 10798.0    58.3 10849.0    59.7 10904.0
GR  67.6 10949.0    67.8 11049.0    72.8 14049.0    92.8 14051.0
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X1132.38     41. 10090.0 10844.1    1056    1056    1056
X3    10
GR  91.0  9886.1    71.0  9888.1    66.0  9988.1    66.0 10006.1    66.0 10053.8
GR  66.0 10090.0    57.2 10134.3    52.7 10208.2    51.0 10208.8    44.9 10230.1
GR  42.3 10247.7    42.2 10269.1    48.2 10288.6    49.1 10309.4    49.3 10329.3
GR  48.2 10349.3    31.9 10389.6    23.0 10429.4    21.0 10449.5    20.2 10469.4
GR  17.1 10489.5    14.8 10529.9    15.0 10549.8    15.9 10570.2    13.9 10609.1
GR  14.7 10629.4    13.9 10649.4    13.9 10670.3    14.7 10690.6    26.7 10730.2
GR  30.7 10751.3    39.6 10769.2    45.7 10789.2    48.9 10809.4    52.7 10823.6
GR  67.9 10844.1    68.6 10848.5    67.9 10899.8    67.9 10950.1    72.9 13950.1
GR  92.9 13952.1
X1132.57     32.   10210   10700    1003    1003    1003
X3    10
GR  87.2  9998.0    67.2 10000.0    62.2 10100.0    59.5 10131.0    61.1 10154.0
GR  57.6 10210.0    52.7 10231.0    51.0 10240.0    42.0 10261.0    34.8 10281.0
GR  30.0 10300.0    25.9 10320.0    19.9 10359.0    17.8 10379.0    16.9 10400.0
GR  13.8 10420.0    11.9 10439.0     9.9 10480.0     9.8 10499.0     7.7 10538.0
GR   7.8 10560.0     6.9 10580.0    25.8 10601.0    32.7 10620.0    40.7 10639.0
GR  46.7 10660.0    52.3 10674.0    66.3 10700.0    66.3 10750.0    66.3 10801.0
GR  71.3 13801.0    91.3 13803.0
X1132.76     37. 10147.7 10693.6    1003    1003    1003
X3    10
GR  89.2  9942.3    69.2  9944.3    64.2 10044.3    66.4 10068.0    63.7 10105.0
GR  63.7 10147.7    57.7 10169.5    56.1 10180.6    55.6 10189.6    52.7 10194.3
GR  52.0 10198.8    45.0 10219.3    31.9 10239.7    32.1 10259.6    27.0 10278.9
GR  23.0 10320.4    22.0 10340.9    20.0 10358.9    17.0 10380.0    16.2 10400.0
GR  13.9 10420.0    11.0 10439.1     8.9 10460.2     6.0 10479.8     1.9 10500.5
GR   1.8 10520.4     3.0 10541.1    12.9 10579.6    30.1 10620.3    41.1 10639.3
GR  48.2 10658.6    52.8 10673.6    68.6 10693.6    68.6 10749.4    68.6 10797.3
GR  73.6 13797.3    93.6 13799.3
X1132.94     30.   10125   10593     950     950     950
X3    10
GR  91.6  9907.0    71.6  9909.0    66.6 10009.0    66.6 10041.0    66.6 10105.0
GR  66.6 10125.0    59.6 10161.0    52.6 10165.0    46.8 10180.0    35.1 10220.0
GR  31.9 10240.0    27.1 10260.0    23.0 10279.0    21.0 10300.0    12.0 10360.0
GR   6.8 10379.0     3.9 10400.0     1.0 10459.0     9.9 10498.0    20.0 10519.0
GR  33.2 10539.0    40.0 10559.0    52.1 10580.0    52.9 10584.0    62.2 10593.0
GR  62.3 10599.0    62.2 10649.0    62.2 10699.0    67.2 13699.0    87.2 13701.0
X1133.14     28.   10138   10649    1056    1056    1056
X3    10
GR  89.6  9939.0    69.6  9941.0    64.6 10041.0    66.9 10060.0    67.3 10089.0
GR  63.6 10138.0    52.9 10165.0    35.8 10211.0    30.7 10231.0    24.9 10269.0
GR  22.9 10289.0    19.9 10310.0    17.7 10348.0    13.0 10369.0    16.8 10449.0
GR  17.9 10469.0    16.0 10510.0    16.0 10530.0    14.0 10570.0    31.8 10589.0
GR  42.9 10609.0    52.1 10630.0    62.7 10644.0    63.6 10649.0    63.6 10699.0
GR  63.6 10748.0    68.6 13748.0    88.6 13750.0
X1133.32     37.   10112   10743     950     950     950
X3    10
GR  93.7  9907.0    73.7  9909.0    68.7 10009.0    68.7 10047.0    68.7 10062.0
GR  68.7 10093.0    68.7 10112.0    65.4 10137.0    60.3 10162.0    52.7 10181.0
GR  43.2 10208.0    32.0 10228.0    30.2 10248.0    25.8 10268.0    23.0 10290.0
GR  23.9 10309.0    22.0 10328.0    20.9 10348.0    21.1 10409.0    22.0 10427.0
GR  21.9 10469.0    23.0 10488.0    23.0 10530.0    23.9 10548.0    24.0 10569.0
GR  25.1 10588.0    24.1 10608.0    46.3 10648.0    51.0 10668.0    52.9 10678.0
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GR  60.2 10690.0    65.4 10706.0    84.0 10735.0    95.5 10743.0   100.5 10848.0
GR 105.5 13848.0   125.5 13850.0
X1133.51     35.   10080   10793    1003    1003    1003
X3    10
GR  95.7  9878.0    75.7  9880.0    70.7  9980.0    70.8 10030.0    70.7 10080.0
GR  63.2 10094.0    59.6 10113.0    52.9 10123.0    49.1 10139.0    35.2 10159.0
GR  26.2 10180.0    24.1 10199.0    24.0 10220.0    22.2 10260.0    20.2 10279.0
GR  18.2 10319.0    18.2 10339.0    17.3 10359.0    17.0 10400.0    21.3 10478.0
GR  21.1 10499.0    24.2 10560.0    23.2 10579.0    41.1 10619.0    47.2 10640.0
GR  48.0 10659.0    53.0 10684.0    57.0 10721.0    69.2 10770.0    90.8 10793.0
GR  91.0 10798.0    90.8 10848.0    90.8 10898.0    95.8 13898.0   115.8 13900.0
X1133.70     30.   10019   10899    1003    1003    1003
X3    10
GR 123.4  9757.0   103.4  9759.0    98.4  9859.0    88.1  9909.0    70.6  9960.0
GR  66.6 10019.0    57.8 10083.0    54.1 10165.0    52.1 10177.0    46.2 10199.0
GR  21.8 10260.0    18.2 10299.0    18.1 10359.0    21.2 10419.0    21.1 10459.0
GR  20.2 10477.0    20.0 10599.0    21.0 10619.0    25.1 10638.0    36.1 10657.0
GR  40.0 10678.0    42.0 10697.0    47.1 10718.0    49.1 10738.0    52.2 10757.0
GR  53.0 10767.0    59.0 10899.0    59.2 10906.0    64.2 13906.0    84.2 13908.0
X1133.89     35.   10119   10667    1003    1003    1003
X3    10
GR  99.3  9916.0    79.3  9918.0    74.3 10018.0    74.3 10066.0    74.3 10119.0
GR  65.8 10137.0    56.8 10168.0    53.1 10172.0    51.2 10178.0    36.0 10199.0
GR  27.1 10218.0    24.4 10239.0    16.2 10260.0    12.3 10279.0    10.2 10299.0
GR  10.3 10319.0    12.1 10338.0     9.2 10359.0    11.1 10379.0    10.2 10399.0
GR  12.2 10420.0    12.1 10461.0    13.2 10479.0    11.2 10519.0    14.3 10539.0
GR  22.4 10560.0    28.2 10578.0    51.4 10618.0    56.9 10648.0    57.8 10667.0
GR  61.8 10699.0    64.0 10748.0    63.3 10798.0    68.3 13798.0    88.3 13800.0
X1134.16     35.   10074   10644    1425    1425    1425
X3    10
GR  98.3  9825.0    78.3  9827.0    73.3  9927.0    62.6 10074.0    52.8 10109.0
GR  47.5 10129.0    33.0 10148.0    29.0 10168.0    23.0 10188.0    16.0 10228.0
GR  16.0 10269.0    15.1 10287.0    15.2 10308.0    14.1 10328.0    11.9 10348.0
GR  10.1 10388.0    10.0 10410.0    11.0 10428.0    10.1 10449.0    16.0 10467.0
GR  18.1 10488.0    22.4 10509.0    30.7 10529.0    44.2 10550.0    48.0 10570.0
GR  53.0 10585.0    56.3 10590.0    59.6 10624.0    67.6 10644.0    67.8 10648.0
GR  67.6 10700.0    67.9 10750.0    69.4 10763.0    74.4 13763.0    94.4 13765.0
X1134.35     27.   10131   10745    1003    1003    1003
X3    10
GR  93.0  9927.0    73.0  9929.0    68.0 10029.0    62.9 10078.0    62.9 10131.0
GR  55.7 10165.0    53.0 10195.0    52.9 10229.0    46.2 10270.0    31.0 10309.0
GR  30.0 10329.0    26.9 10350.0    22.0 10390.0    19.8 10409.0    19.1 10429.0
GR  17.1 10450.0    14.9 10489.0     3.9 10548.0     6.5 10589.0    13.6 10609.0
GR  22.7 10649.0    51.0 10708.0    52.8 10715.0    72.5 10745.0    72.5 10847.0
GR  77.5 13847.0    97.5 13849.0
X1134.54     41. 10014.4 10821.9    1003    1003    1003
X3    10
GR 100.5  9807.4    80.5  9809.4    75.5  9909.4    75.6  9962.0    69.9 10013.9
GR  69.5 10014.4    52.9 10043.4    52.3 10050.0    29.1 10109.0    24.1 10129.5
GR  22.3 10149.1    18.2 10169.0    17.2 10189.5    16.9 10229.3    19.1 10269.3
GR  19.1 10288.6    16.1 10348.6    19.3 10407.8    19.0 10429.2    21.1 10449.3
GR  25.0 10468.2    32.2 10487.6    35.1 10509.6    41.0 10528.7    44.2 10548.7
GR  46.1 10589.2    48.2 10609.8    46.3 10649.2    46.0 10689.5    48.0 10729.0
GR  51.8 10768.7    52.9 10776.5    58.4 10806.1    67.2 10821.9    67.2 10829.2
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GR  73.3 10842.5    73.6 10848.4    72.2 10848.7    71.8 10948.8    76.8 13948.8
GR  96.8 13950.8
X1134.92     38.    9998   10699    2006    2006    2006
X3    10
GR 105.2  9831.0    85.2  9833.0    80.2  9933.0    80.2  9954.0    80.2  9988.0
GR  80.2  9998.0    71.3 10024.0    70.9 10060.0    65.2 10081.0    55.1 10099.0
GR  53.0 10121.0    49.1 10137.0    37.8 10146.0    23.3 10160.0    27.0 10178.0
GR  18.1 10199.0    20.3 10220.0    17.9 10239.0    20.1 10279.0    20.0 10299.0
GR  21.2 10320.0    21.1 10340.0    22.2 10360.0    22.0 10419.0    23.0 10439.0
GR  23.0 10459.0    27.0 10479.0    31.9 10578.0    33.8 10598.0    32.9 10618.0
GR  45.0 10657.0    52.8 10678.0    60.8 10688.0    61.5 10699.0    61.5 10748.0
GR  61.5 10798.0    66.5 13798.0    86.5 13800.0
X1134.98     46.   10087   10741     316     316     316
X3    10
GR  97.7  9892.0    77.7  9894.0    72.7  9994.0    71.8 10017.0    70.2 10052.0
GR  70.2 10061.0    70.4 10086.0    70.2 10087.0    52.8 10108.0    39.7 10150.0
GR  32.9 10165.0    30.8 10170.0    25.1 10211.0    23.0 10230.0    18.9 10251.0
GR  16.9 10269.0    15.8 10290.0     7.3 10299.0    -2.3 10311.0    -9.4 10330.0
GR -10.3 10350.0    -9.1 10370.0    -6.3 10390.0    -4.3 10410.0     3.8 10431.0
GR   7.7 10450.0    16.7 10470.0    14.7 10490.0    18.9 10510.0    24.6 10530.0
GR  31.8 10550.0    40.6 10569.0    48.8 10590.0    46.8 10609.0    49.0 10649.0
GR  48.9 10669.0    46.8 10689.0    47.9 10710.0    52.7 10729.0    61.0 10741.0
GR  62.4 10750.0    64.4 10768.0    61.0 10800.0    61.0 10848.0    66.0 13848.0
GR  86.0 13850.0
X1135.09     35.   10038   10984     580     580     580
X3    10
GR  88.7  9828.0    68.7  9830.0    63.7  9930.0    63.9  9980.0    63.8 10010.0
GR  62.8 10038.0    56.9 10069.0    52.9 10149.0    50.1 10180.0    47.1 10241.0
GR  46.3 10261.0    46.3 10380.0    45.2 10400.0    37.3 10480.0    25.0 10561.0
GR  24.2 10579.0    24.1 10620.0    22.2 10660.0    21.0 10680.0    22.0 10699.0
GR  22.3 10741.0    23.1 10759.0    23.1 10799.0    24.1 10818.0    24.0 10840.0
GR  23.2 10860.0    25.1 10900.0    27.0 10919.0    42.1 10960.0    60.5 10984.0
GR  60.5 11003.0    60.5 11049.0    60.5 11099.0    65.5 14099.0    85.5 14101.0
X1135.28     32.   10119   10690    1003    1003    1003
X3    10
GR  84.2  9896.0    64.2  9898.0    59.2  9998.0    58.1 10027.0    58.1 10066.0
GR  59.5 10099.0    58.1 10119.0    52.7 10150.0    51.8 10160.0    52.0 10180.0
GR  44.8 10200.0    38.9 10220.0    29.9 10239.0    27.0 10260.0    24.9 10279.0
GR  23.0 10321.0    21.0 10340.0    19.8 10359.0    20.1 10421.0    17.0 10481.0
GR  16.8 10520.0    17.8 10540.0    14.9 10560.0    25.0 10600.0    36.9 10621.0
GR  51.8 10659.0    52.7 10665.0    69.2 10690.0    69.5 10698.0    69.7 10799.0
GR  74.7 13799.0    94.7 13801.0
X1135.47     26.   10137   10588    1003    1003    1003
X3    10
GR  87.7  9727.0    67.7  9729.0    62.7  9829.0    60.6  9880.0    61.8 10130.0
GR  60.6 10137.0    52.8 10151.0    51.9 10159.0    21.9 10258.0    19.9 10278.0
GR  20.0 10298.0    19.1 10318.0    17.0 10358.0    13.0 10398.0    11.9 10418.0
GR   9.8 10438.0     2.0 10479.0     4.9 10498.0    10.7 10518.0    34.8 10538.0
GR  52.0 10577.0    60.3 10588.0    60.5 10597.0    60.3 10697.0    65.3 13697.0
GR  85.3 13699.0
X1135.66     33.   10149   10637    1003    1003    1003
X3    10
GR  87.7  9902.0    67.7  9904.0    62.7 10004.0    65.3 10050.0    65.3 10069.0
GR  56.7 10149.0    53.0 10151.0    46.8 10169.0    37.0 10189.0    30.9 10211.0
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GR  27.1 10228.0    22.9 10268.0    23.0 10288.0    20.1 10350.0    20.0 10369.0
GR  15.0 10391.0    13.2 10409.0    11.9 10429.0    12.0 10450.0    10.1 10469.0
GR  12.9 10509.0    17.0 10529.0    32.4 10550.0    38.1 10570.0    48.0 10590.0
GR  49.8 10609.0    52.8 10625.0    61.4 10637.0    61.9 10650.0    61.4 10699.0
GR  61.4 10749.0    66.4 13749.0    86.4 13751.0
X1135.85     31.   10141   10622    1003    1003    1003
X3    10
GR  88.6  9929.0    68.6  9931.0    63.6 10031.0    63.8 10041.0    59.6 10081.0
GR  59.2 10141.0    52.8 10150.0    28.8 10210.0    24.2 10230.0    23.1 10249.0
GR  22.9 10270.0    21.9 10289.0    22.1 10309.0    21.0 10331.0    16.0 10350.0
GR  12.9 10370.0    12.8 10391.0    15.0 10411.0    15.1 10448.0    10.4 10471.0
GR  11.0 10489.0    14.8 10510.0    21.1 10528.0    30.0 10569.0    43.1 10590.0
GR  52.8 10614.0    59.8 10622.0    65.6 10649.0    62.1 10749.0    67.1 13749.0
GR  87.1 13751.0
X1136.03     28.   10121   10649     950     950     950
X3    10
GR  85.3  9909.0    65.3  9911.0    60.3 10011.0    60.3 10050.0    60.3 10121.0
GR  53.0 10129.0    45.3 10150.0    33.1 10171.0    27.1 10189.0    23.2 10210.0
GR  23.0 10230.0    19.0 10310.0    19.2 10331.0    18.0 10350.0    18.0 10429.0
GR  12.1 10489.0    16.2 10510.0    32.0 10550.0    47.3 10569.0    50.9 10588.0
GR  52.0 10609.0    58.0 10619.0    61.2 10629.0    65.6 10649.0    65.6 10699.0
GR  65.6 10749.0    70.6 13749.0    90.6 13751.0
X1136.22     30.   10130   10638    1003    1003    1003
X3    10
GR  82.5  9877.0    62.5  9879.0    57.5  9979.0    59.4 10030.0    61.7 10070.0
GR  57.5 10130.0    53.1 10150.0    48.0 10169.0    29.9 10208.0    20.1 10248.0
GR  20.0 10269.0    18.0 10289.0    18.1 10308.0    16.2 10349.0    16.1 10369.0
GR  14.8 10388.0    13.0 10409.0     8.9 10429.0     7.1 10469.0    10.0 10489.0
GR  14.0 10509.0    21.1 10527.0    31.7 10549.0    49.1 10587.0    53.1 10606.0
GR  68.6 10638.0    69.0 10647.0    68.7 10748.0    73.7 13748.0    93.7 13750.0
X1136.41     29.   10121   10691    1003    1003    1003
X3    10
GR  86.4  9918.0    66.4  9920.0    61.4 10020.0    60.0 10080.0    60.0 10121.0
GR  53.2 10143.0    46.9 10180.0    44.0 10201.0    37.0 10220.0    32.2 10260.0
GR  32.9 10279.0    31.1 10299.0    32.0 10319.0    30.0 10340.0    28.1 10379.0
GR  22.1 10440.0     7.9 10498.0     4.1 10520.0     2.1 10539.0     5.0 10561.0
GR  11.2 10579.0    13.2 10598.0    18.9 10620.0    47.1 10660.0    52.8 10679.0
GR  68.4 10691.0    68.4 10799.0    73.4 13799.0    93.4 13801.0
X1136.60     32.   10131   10694    1003    1003    1003
X3    10
GR  86.6  9914.0    66.6  9916.0    61.6 10016.0    61.0 10052.0    63.5 10108.0
GR  60.4 10131.0    53.0 10141.0    51.0 10159.0    33.0 10200.0    27.0 10218.0
GR  24.1 10238.0    22.0 10259.0    22.1 10279.0    19.8 10322.0    18.0 10338.0
GR  17.1 10360.0    16.8 10401.0    15.1 10419.0    14.1 10439.0    14.1 10459.0
GR  20.0 10498.0    20.7 10538.0    31.1 10578.0    32.9 10598.0    44.1 10619.0
GR  53.0 10648.0    60.6 10653.0    63.3 10679.0    72.4 10694.0    72.4 10798.0
GR  77.4 13798.0    97.4 13800.0
X1136.98     37.   10057   10581    2006    2006    2006
X3    10
GR  97.2  9845.0    77.2  9847.0    72.2  9947.0    71.8  9952.0    71.6  9979.0
GR  71.6 10019.0    71.6 10038.0    71.6 10057.0    56.5 10074.0    55.0 10082.0
GR  52.9 10083.0    50.0 10088.0    40.9 10128.0    40.1 10148.0    38.1 10167.0
GR  34.8 10188.0    27.0 10208.0    21.2 10228.0    11.0 10250.0     6.1 10269.0
GR   9.0 10289.0     9.9 10309.0    10.1 10329.0    13.0 10350.0    17.3 10389.0
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GR  23.1 10429.0    25.0 10449.0    28.1 10469.0    32.0 10508.0    52.0 10569.0
GR  53.1 10574.0    54.6 10579.0    56.6 10581.0    63.0 10664.0    62.4 10689.0
GR  67.4 13689.0    87.4 13691.0
X1137.26     37.   10098   10554    1478    1478    1478
X3    10
GR  97.5  9796.0    77.5  9798.0    72.5  9898.0    69.6  9909.0    69.2  9928.0
GR  65.4  9956.0    65.8  9999.0    67.1 10008.0    71.0 10019.0    70.5 10027.0
GR  64.1 10066.0    63.7 10089.0    60.0 10098.0    59.1 10108.0    52.9 10113.0
GR  52.1 10118.0    32.4 10158.0    27.0 10178.0    23.1 10198.0    10.0 10219.0
GR  10.0 10298.0    13.8 10338.0    14.8 10358.0    17.9 10378.0    26.1 10458.0
GR  28.8 10478.0    36.0 10499.0    46.2 10518.0    52.8 10538.0    55.0 10540.0
GR  63.2 10554.0    63.2 10578.0    63.2 10594.0    63.2 10617.0    63.2 10638.0
GR  68.2 13638.0    88.2 13640.0
X1137.45     38.   10098   10576    1003    1003    1003
X3    10
GR  98.3  9846.0    78.3  9848.0    73.3  9948.0    71.4  9959.0    70.4  9978.0
GR  64.5 10000.0    62.6 10048.0    63.6 10072.0    62.6 10098.0    62.5 10104.0
GR  60.2 10111.0    52.5 10124.0    44.9 10150.0    26.6 10189.0    13.9 10208.0
GR  10.0 10229.0    10.0 10249.0    10.9 10271.0    15.0 10290.0    16.1 10310.0
GR  16.1 10330.0    16.9 10349.0    21.0 10389.0    24.0 10408.0    24.2 10449.0
GR  24.8 10469.0    27.0 10488.0    30.9 10510.0    36.8 10528.0    48.0 10548.0
GR  52.6 10563.0    56.5 10567.0    58.0 10572.0    60.0 10576.0    63.6 10639.0
GR  64.8 10677.0    69.8 13677.0    89.8 13679.0
X1137.63     34.   10075   10672     950     950     950
X3    10
GR  96.4  9898.0    76.4  9900.0    71.4 10000.0    70.5 10015.0    66.7 10028.0
GR  62.9 10041.0    62.9 10055.0    62.7 10075.0    48.8 10120.0    45.9 10140.0
GR  42.0 10160.0    25.8 10179.0    21.8 10199.0     9.0 10239.0     8.8 10260.0
GR  14.9 10299.0    14.9 10320.0    12.0 10340.0    13.9 10359.0    17.0 10379.0
GR  23.1 10439.0    23.8 10459.0    25.8 10480.0    36.1 10520.0    44.8 10539.0
GR  50.8 10559.0    52.9 10579.0    54.7 10582.0    58.4 10626.0    58.5 10635.0
GR  62.5 10672.0    62.5 10700.0    67.5 13700.0    87.5 13702.0
X1137.83     38.   10059   10575    1056    1056    1056
X3    10
GR 101.4  9848.0    81.4  9850.0    76.4  9950.0    74.7  9961.0    72.3  9983.0
GR  70.9 10004.0    70.9 10025.0    70.9 10028.0    70.9 10059.0    67.8 10064.0
GR  54.9 10081.0    41.0 10110.0    30.0 10130.0    24.8 10149.0    22.0 10171.0
GR  12.1 10190.0    11.0 10210.0    12.9 10251.0    13.0 10270.0    14.1 10291.0
GR  13.1 10310.0    13.0 10330.0    15.0 10371.0    18.0 10390.0    19.9 10411.0
GR  23.0 10429.0    32.1 10450.0    36.1 10469.0    46.0 10489.0    52.0 10509.0
GR  50.1 10528.0    50.0 10548.0    54.9 10566.0    61.2 10575.0    61.2 10617.0
GR  61.2 10634.0    66.2 13634.0    86.2 13636.0
X1138.05     37.   10062   10715    1161    1161    1161
X3    10
GR 102.1  9848.0    82.1  9850.0    77.1  9950.0    72.4  9962.0    71.2  9978.0
GR  66.0  9999.0    65.4 10049.0    65.0 10062.0    55.1 10113.0    50.9 10129.0
GR  43.9 10148.0    25.8 10189.0    22.9 10209.0    21.9 10229.0    21.7 10249.0
GR  22.8 10269.0    22.8 10288.0    22.0 10308.0    20.0 10329.0    23.8 10409.0
GR  20.0 10489.0    19.8 10509.0    20.9 10528.0    18.9 10549.0    19.9 10568.0
GR  21.7 10589.0    21.0 10609.0    18.9 10630.0    25.8 10650.0    30.6 10669.0
GR  46.5 10689.0    54.6 10702.0    65.2 10715.0    65.2 10759.0    65.2 10819.0
GR  70.2 13819.0    90.2 13821.0
X1138.27     32.   10044   10728    1161    1161    1161
X3    10
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GR 102.8  9795.0    82.8  9797.0    77.8  9897.0    73.6  9913.0    72.7  9927.0
GR  67.8  9943.0    68.7  9979.0    68.3  9997.0    67.4 10019.0    63.9 10044.0
GR  56.7 10127.0    55.2 10128.0    51.0 10158.0    50.3 10179.0    47.0 10199.0
GR  43.0 10219.0    31.0 10259.0    27.0 10279.0    18.1 10459.0    18.0 10499.0
GR  18.9 10519.0    15.9 10561.0    14.1 10600.0    13.8 10620.0    18.8 10640.0
GR  44.8 10678.0    54.8 10716.0    65.6 10728.0    65.6 10808.0    65.6 10842.0
GR  70.6 13842.0    90.6 13844.0
X1138.47     35.   10098   10757    1056    1056    1056
X3    10
GR 102.9  9796.0    82.9  9798.0    77.9  9898.0    73.7  9917.0    70.3  9931.0
GR  68.3  9944.0    66.4  9998.0    61.9 10048.0    60.4 10098.0    56.4 10148.0
GR  55.1 10192.0    52.7 10198.0    50.0 10218.0    48.9 10239.0    44.9 10279.0
GR  26.0 10339.0    25.0 10361.0    25.9 10379.0    25.0 10399.0    25.8 10419.0
GR  25.9 10440.0    24.9 10459.0    25.0 10478.0    19.1 10539.0    11.0 10599.0
GR   7.9 10621.0    16.7 10641.0    30.9 10680.0    40.0 10699.0    45.0 10715.0
GR  50.8 10740.0    64.6 10757.0    64.6 10869.0    69.6 13869.0    89.6 13871.0
X1138.66     40. 10304.9 10794.1    1003    1003    1003
X3    10
GR  98.1  9748.8    78.1  9750.8    73.1  9850.8    73.8  9950.6    78.1  9964.6
GR  79.5  9981.8    79.3  9992.3    74.1 10011.2    73.0 10021.2    67.7 10050.6
GR  63.9 10149.8    64.0 10209.0    64.9 10249.6    63.2 10304.9    55.3 10311.2
GR  48.7 10330.7    37.5 10354.7    28.9 10369.4    21.8 10409.4    22.9 10429.1
GR  20.9 10469.1    16.9 10509.2    17.7 10529.5    14.9 10549.2    14.8 10569.6
GR  15.7 10589.9    14.8 10609.8    14.8 10649.6    13.8 10670.1    14.7 10690.3
GR  17.8 10710.4    23.7 10728.7    48.0 10769.6    52.9 10789.5    55.3 10793.7
GR  62.3 10794.1    65.2 10875.8    62.7 10920.2    67.7 13920.2    87.7 13922.2
X1139.01     33.   10055   10627    1847    1847    1847
X3    10
GR  99.2  9898.0    79.2  9900.0    74.2 10000.0    72.6 10007.0    71.2 10021.0
GR  64.2 10039.0    63.2 10055.0    55.3 10067.0    45.8 10079.0    26.9 10120.0
GR  21.0 10139.0    20.0 10160.0    20.8 10179.0    20.0 10199.0    14.9 10239.0
GR  14.0 10260.0    14.0 10279.0    13.0 10300.0    14.0 10319.0    18.0 10358.0
GR  23.6 10399.0    28.1 10419.0    32.0 10439.0    34.8 10459.0    48.0 10499.0
GR  48.9 10519.0    55.1 10577.0    63.6 10627.0    63.6 10643.0    63.6 10678.0
GR  63.6 10729.0    68.6 13729.0    88.6 13731.0
X1139.19     28.   10085   10744     950     950     950
X3    10
GR  95.6  9937.0    75.6  9939.0    70.6 10039.0    65.4 10085.0    56.7 10119.0
GR  55.1 10155.0    50.0 10189.0    44.1 10210.0    32.7 10230.0    25.9 10249.0
GR  21.8 10310.0    17.8 10389.0    17.7 10410.0    18.8 10430.0    17.8 10449.0
GR  21.7 10468.0    26.8 10570.0    25.9 10591.0    27.6 10629.0    29.7 10649.0
GR  45.9 10668.0    54.9 10700.0    56.9 10705.0    63.5 10735.0    68.5 10744.0
GR  68.5 10849.0    73.5 13849.0    93.5 13851.0
X1139.38     30.   10094   10696    1003    1003    1003
X3    10
GR  82.5  9897.0    62.5  9899.0    57.5  9999.0    57.5 10050.0    57.5 10094.0
GR  53.9 10149.0    51.0 10169.0    45.9 10189.0    27.9 10249.0    23.9 10328.0
GR  24.9 10350.0    23.8 10369.0    20.0 10409.0    18.9 10428.0    14.9 10468.0
GR  14.8 10509.0    15.6 10528.0    19.0 10549.0    17.8 10569.0    25.9 10590.0
GR  29.8 10610.0    38.8 10630.0    48.8 10650.0    54.9 10670.0    67.6 10696.0
GR  67.6 10749.0    67.6 10905.0    67.6 11008.0    72.6 14008.0    92.6 14010.0
X1139.56     30.   10139   10631     950     950     950
X3    10
GR  87.0  9936.0    67.0  9938.0    62.0 10038.0    62.0 10076.0    62.0 10139.0
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GR  50.0 10159.0    31.2 10219.0    28.1 10240.0    26.9 10260.0    25.0 10279.0
GR  25.0 10299.0    24.1 10319.0    24.0 10338.0    22.1 10360.0    18.1 10379.0
GR  18.0 10399.0    12.0 10459.0    10.9 10479.0     8.0 10499.0     8.8 10519.0
GR  11.9 10540.0    19.7 10559.0    44.1 10578.0    55.2 10607.0    57.5 10616.0
GR  71.6 10631.0    71.6 10697.0    71.6 10796.0    76.6 13796.0    96.6 13798.0
X1139.75     30.   10146   10629    1003    1003    1003
X3    10
GR  86.4  9939.0    66.4  9941.0    61.4 10041.0    61.5 10086.0    59.8 10130.0
GR  59.8 10146.0    55.4 10149.0    36.2 10191.0    32.3 10210.0    28.2 10250.0
GR  28.1 10270.0    27.0 10290.0    24.1 10310.0    22.1 10330.0    17.8 10370.0
GR  16.0 10391.0    10.0 10430.0     6.0 10450.0     7.0 10469.0     4.0 10490.0
GR   8.0 10530.0    15.0 10550.0    47.1 10590.0    55.3 10607.0    58.8 10609.0
GR  69.2 10629.0    69.2 10700.0    69.2 10750.0    74.2 13750.0    94.2 13752.0
X1139.94     40. 10049.9 10664.3    1003    1003    1003
X3    10
GR  89.5  9847.2    69.5  9849.2    64.5  9949.2    64.5 10000.0    64.5 10049.9
GR  58.0 10065.6    57.0 10072.5    55.1 10073.0    45.9 10090.5    40.7 10110.7
GR  31.8 10129.3    28.8 10149.1    29.9 10169.5    27.8 10189.8    21.8 10210.4
GR  17.7 10231.2    12.8 10250.4     9.7 10270.7     4.9 10289.4     5.8 10310.3
GR   1.8 10330.0      .8 10351.4     9.9 10409.8    18.9 10429.5    25.0 10450.1
GR  27.1 10469.5    33.9 10489.6    39.1 10511.2    42.2 10531.2    43.9 10550.1
GR  49.1 10570.2    51.0 10610.5    55.2 10626.5    60.1 10640.6    63.5 10655.1
GR  69.0 10664.3    69.3 10669.2    69.0 10768.6    74.0 13768.6    94.0 13770.6
X1140.03     45.   10042   10846     475     475     475
X3    10
GR  91.7  9747.0    71.7  9749.0    66.7  9849.0    66.5  9948.0    66.6 10038.0
GR  66.5 10042.0    55.2 10056.0    41.0 10089.0    35.0 10109.0    28.0 10130.0
GR  22.9 10150.0    23.1 10169.0    25.0 10189.0    25.0 10228.0    24.0 10249.0
GR  23.9 10289.0    25.0 10309.0    24.9 10329.0    23.0 10349.0    23.1 10370.0
GR  24.0 10389.0    23.8 10408.0    23.0 10430.0    22.9 10470.0    23.9 10490.0
GR  24.0 10526.0    28.9 10569.0    33.0 10589.0    38.9 10609.0    41.9 10628.0
GR  40.9 10648.0    44.7 10668.0    44.8 10688.0    45.9 10707.0    46.0 10728.0
GR  48.1 10772.0    49.1 10788.0    53.0 10808.0    55.3 10815.0    59.5 10831.0
GR  64.9 10846.0    64.9 10887.0    64.9 10948.0    69.9 13948.0    89.9 13950.0
X1140.41     30.   10046   10727    2006    2006    2006
X3    10
GR 131.3  9797.0   111.3  9799.0   106.3  9899.0    88.6  9988.0    73.5 10039.0
GR  73.5 10046.0    55.4 10078.0    52.9 10080.0    47.9 10099.0    27.8 10139.0
GR  21.7 10160.0    14.9 10220.0    15.0 10240.0    18.1 10259.0    17.9 10280.0
GR  22.0 10320.0    27.0 10419.0    29.0 10439.0    31.8 10499.0    32.0 10539.0
GR  34.0 10579.0    42.9 10598.0    48.0 10618.0    51.9 10659.0    52.9 10680.0
GR  55.4 10681.0    60.6 10727.0    60.6 10738.0    65.6 13738.0    85.6 13740.0
X1140.60     35.   10098   10698    1003    1003    1003
X3    10
GR 102.4  9897.0    82.4  9899.0    77.4  9999.0    75.2 10008.0    74.5 10023.0
GR  69.5 10038.0    62.2 10098.0    55.2 10144.0    50.8 10158.0    49.0 10199.0
GR  42.7 10219.0    30.0 10240.0    24.0 10260.0    21.8 10280.0    17.9 10299.0
GR  18.0 10340.0    19.2 10360.0    16.9 10380.0    16.1 10399.0    16.3 10422.0
GR  18.9 10443.0    17.0 10479.0    18.0 10500.0    18.2 10560.0    20.2 10601.0
GR  24.1 10619.0    33.1 10638.0    43.8 10657.0    55.1 10692.0    60.2 10698.0
GR  62.8 10712.0    62.9 10733.0    60.2 10769.0    65.2 13769.0    85.2 13771.0
X1140.79     29.   10050   10666    1003    1003    1003
X3    10
GR  86.3  9897.0    66.3  9899.0    61.3  9999.0    58.4 10050.0    55.4 10111.0
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GR  52.8 10120.0    50.9 10140.0    50.1 10160.0    47.0 10179.0    28.0 10240.0
GR  24.0 10260.0    22.1 10279.0    21.1 10300.0    20.8 10321.0    19.9 10340.0
GR  20.0 10360.0    17.8 10381.0    16.6 10402.0    12.9 10441.0     9.9 10460.0
GR   8.9 10481.0     5.9 10499.0     7.2 10519.0    25.8 10580.0    40.9 10598.0
GR  68.3 10666.0    68.3 10760.0    73.3 13760.0    93.3 13762.0
X1140.98     34.   10119   10713    1003    1003    1003
X3    10
GR  86.6  9957.0    66.6  9959.0    61.6 10059.0    61.9 10108.0    61.6 10119.0
GR  55.5 10175.0    54.1 10178.0    52.1 10199.0    48.8 10219.0    43.0 10238.0
GR  35.1 10258.0    29.9 10278.0    21.9 10300.0    21.2 10319.0    20.9 10360.0
GR  19.8 10380.0    17.8 10398.0    17.8 10438.0    18.9 10460.0    17.9 10477.0
GR  17.9 10518.0    19.8 10561.0    19.7 10599.0    20.8 10619.0    25.2 10639.0
GR  38.0 10658.0    49.4 10679.0    53.9 10698.0    55.3 10699.0    59.4 10713.0
GR  59.8 10765.0    64.1 10812.0    69.1 13812.0    89.1 13814.0
X1141.20     35.   10112   10771    1161    1161    1161
X3    10
GR 101.4  9929.0    81.4  9931.0    76.4 10031.0    74.1 10098.0    74.1 10112.0
GR  65.7 10128.0    55.4 10144.0    50.1 10159.0    39.9 10180.0    33.9 10200.0
GR  31.6 10221.0    24.9 10260.0    22.9 10280.0    23.0 10341.0    24.8 10383.0
GR  23.9 10400.0    24.1 10421.0    25.8 10440.0    27.0 10459.0    29.0 10480.0
GR  28.8 10500.0    31.9 10538.0    32.9 10559.0    35.0 10580.0    40.3 10600.0
GR  50.8 10618.0    51.7 10638.0    51.8 10679.0    57.3 10705.0    58.1 10747.0
GR  62.4 10771.0    63.4 10798.0    62.4 10828.0    67.4 13828.0    87.4 13830.0
X1141.77      37   10036   10711    3008    3008    3008
X3    10
GR  98.1  9922.0    78.1  9924.0    73.1 10024.0    72.2 10036.0    66.1 10063.0
GR  58.5 10093.0    55.5 10106.0    47.0 10121.0    36.1 10140.0    28.8 10161.0
GR  27.7 10181.0    25.9 10201.0    22.9 10261.0    22.9 10302.0    22.0 10321.0
GR  24.0 10341.0    25.9 10382.0    26.0 10401.0    27.9 10421.0    27.9 10441.0
GR  29.0 10461.0    29.1 10481.0    31.1 10521.0    31.0 10540.0    32.0 10561.0
GR  29.1 10580.0    37.7 10600.0    48.0 10621.0    52.1 10641.0    53.0 10661.0
GR  55.7 10680.0    60.2 10699.0    61.8 10711.0    61.8 10750.0    61.8 10800.0
GR  66.8 13800.0    86.8 13802.0
X1141.96     36.   10095   10698    1003    1003    1003
X3    10
GR  96.5  9914.0    76.5  9916.0    71.5 10016.0    70.3 10029.0    64.6 10046.0
GR  60.0 10095.0    55.4 10110.0    42.9 10137.0    31.9 10158.0    30.1 10178.0
GR  30.1 10198.0    23.9 10238.0    21.8 10259.0    20.9 10278.0    23.0 10319.0
GR  23.0 10339.0    25.0 10358.0    25.1 10379.0    27.0 10419.0    29.1 10438.0
GR  29.9 10459.0    29.1 10478.0    31.0 10520.0    31.0 10538.0    32.1 10559.0
GR  31.0 10581.0    32.9 10598.0    42.9 10618.0    51.0 10639.0    54.9 10660.0
GR  64.1 10698.0    69.2 10739.0    68.5 10754.0    64.1 10798.0    69.1 13798.0
GR  89.1 13800.0
X1142.07     30.   10110   10698     580     580     580
X3    10
GR  98.0  9932.0    78.0  9934.0    73.0 10034.0    71.0 10090.0    71.0 10110.0
GR  55.9 10144.0    50.2 10163.0    46.2 10173.0    28.0 10197.0    23.0 10217.0
GR  17.0 10257.0    18.1 10277.0    18.0 10298.0    19.0 10317.0    23.0 10338.0
GR  28.9 10458.0    26.1 10478.0    27.1 10498.0    26.1 10517.0    28.0 10538.0
GR  28.2 10578.0    35.1 10598.0    45.1 10618.0    52.1 10639.0    55.4 10659.0
GR  63.2 10698.0    65.1 10749.0    65.6 10800.0    70.6 13800.0    90.6 13802.0
X1142.26     37.   10075   10699    1003    1003    1003
X3    10
GR  97.9  9924.0    77.9  9926.0    72.9 10026.0    72.3 10041.0    65.9 10075.0
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GR  56.1 10093.0    45.1 10121.0    32.0 10141.0    24.9 10162.0    22.8 10182.0
GR  22.1 10202.0    20.0 10224.0    18.9 10241.0    20.1 10263.0    20.0 10283.0
GR  18.2 10323.0    20.2 10342.0    23.1 10362.0    27.1 10400.0    27.3 10420.0
GR  29.2 10440.0    30.2 10460.0    30.1 10481.0    33.1 10500.0    40.0 10521.0
GR  45.2 10540.0    44.2 10561.0    44.4 10581.0    47.3 10600.0    52.1 10620.0
GR  55.9 10639.0    62.7 10699.0    62.7 10727.0    62.7 10780.0    62.7 10800.0
GR  67.7 13800.0    87.7 13802.0
X1142.64     28.   10148   10699    2006    2006    2006
X3    10
GR  97.4  9948.0    77.4  9950.0    72.4 10050.0    65.2 10095.0    59.4 10148.0
GR  55.7 10157.0    49.8 10180.0    39.9 10199.0    32.0 10220.0    27.9 10240.0
GR  27.9 10259.0    26.9 10279.0    27.0 10320.0    23.9 10339.0    23.7 10500.0
GR  23.1 10520.0    25.9 10580.0    25.9 10598.0    30.8 10619.0    40.6 10640.0
GR  54.4 10679.0    55.6 10684.0    59.5 10699.0    61.2 10725.0    63.0 10780.0
GR  64.1 10800.0    69.1 13800.0    89.1 13802.0
X1142.81     31.   10115   10683     897     897     897
X3    10
GR  89.2  9913.0    69.2  9915.0    64.2 10015.0    63.6 10044.0    59.5 10074.0
GR  58.7 10115.0    50.9 10131.0    39.9 10152.0    32.0 10172.0    26.1 10213.0
GR  25.2 10231.0    27.0 10252.0    28.1 10270.0    27.0 10292.0    25.0 10311.0
GR  24.0 10332.0    21.8 10352.0    21.1 10373.0    21.2 10392.0    22.0 10413.0
GR  19.0 10471.0    18.9 10531.0    22.0 10554.0    25.5 10572.0    32.5 10592.0
GR  49.6 10612.0    55.5 10641.0    75.8 10683.0    76.1 10733.0    81.1 13733.0
GR 101.1 13735.0
X1142.94     32.   10119   10666     686     686     686
X3    10
GR  89.5  9911.0    69.5  9913.0    64.5 10013.0    63.6 10043.0    59.7 10072.0
GR  58.5 10119.0    55.0 10130.0    50.9 10149.0    31.9 10188.0    27.9 10209.0
GR  26.9 10228.0    25.0 10248.0    25.1 10268.0    22.8 10308.0    19.9 10328.0
GR  20.9 10348.0    20.9 10368.0    22.0 10388.0    20.9 10408.0    17.8 10429.0
GR  17.7 10448.0    14.8 10468.0    14.9 10509.0    17.0 10528.0    24.7 10569.0
GR  33.7 10589.0    52.4 10609.0    55.8 10619.0    63.2 10648.0    73.2 10666.0
GR  78.2 13666.0    98.2 13668.0
X1143.17     31.   10135   10599    1214    1214    1214
X3    10
GR  87.3  9928.0    67.3  9930.0    62.3 10030.0    62.4 10078.0    58.0 10135.0
GR  55.2 10139.0    49.7 10159.0    41.1 10180.0    33.0 10199.0    25.9 10219.0
GR  23.9 10241.0    23.0 10259.0    23.0 10279.0    22.1 10299.0    20.0 10320.0
GR  17.9 10360.0    15.1 10379.0    10.1 10401.0    12.1 10419.0    11.1 10439.0
GR  12.3 10459.0    32.1 10519.0    37.8 10538.0    50.2 10557.0    55.5 10569.0
GR  59.0 10573.0    64.8 10586.0    67.3 10599.0    67.7 10680.0    72.7 13680.0
GR  92.7 13682.0
X1143.35     33.   10152   10626     950     950     950
X3    10
GR  93.2  9946.0    73.2  9948.0    68.2 10048.0    63.2 10099.0    57.1 10152.0
GR  55.4 10158.0    50.7 10168.0    42.8 10187.0    32.0 10207.0    28.0 10227.0
GR  26.0 10247.0    24.9 10267.0    24.9 10287.0    20.8 10326.0    17.8 10386.0
GR  15.9 10408.0    13.0 10427.0    11.0 10448.0    10.0 10468.0    19.8 10487.0
GR  22.1 10508.0    24.8 10527.0    28.8 10548.0    39.8 10567.0    50.7 10588.0
GR  60.2 10606.0    70.7 10626.0    71.4 10647.0    71.2 10666.0    72.9 10673.0
GR  73.0 10682.0    78.0 13682.0    98.0 13684.0
X1143.54     38. 10092.1 10642.2    1003    1003    1003
X3    10
GR  88.1  9909.6    68.1  9911.6    63.1 10011.6    63.3 10028.1    63.1 10042.0
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GR  63.1 10050.1    63.1 10057.9    63.4 10086.6    63.1 10092.1    58.9 10098.7
GR  52.7 10109.9    45.1 10129.7    32.9 10151.1    23.1 10190.8    20.9 10209.7
GR  22.0 10230.5    22.1 10289.5    20.0 10309.9    20.0 10351.1    21.1 10369.9
GR  20.0 10392.2    20.9 10411.0    19.1 10451.3    19.1 10470.6    20.8 10489.4
GR  26.8 10508.9    31.1 10529.0    37.0 10548.6    45.0 10568.5    52.9 10608.8
GR  57.6 10617.5    67.9 10640.7    70.8 10642.1    70.7 10642.2    71.7 10697.1
GR  70.7 10747.7    75.7 13747.7    95.7 13749.7
X1143.92     36.   10118   10690    2006    2006    2006
X3    10
GR  88.5  9918.0    68.5  9920.0    63.5 10020.0    59.5 10069.0    56.8 10118.0
GR  55.8 10125.0    50.3 10139.0    26.9 10160.0    23.9 10179.0    21.9 10200.0
GR  20.0 10239.0    20.0 10259.0    18.2 10279.0    18.2 10299.0    20.1 10321.0
GR  20.1 10339.0    19.0 10360.0    20.2 10378.0    20.2 10399.0    19.1 10420.0
GR  20.2 10439.0    19.1 10459.0    19.1 10499.0    21.2 10518.0    32.2 10559.0
GR  43.0 10578.0    48.0 10598.0    50.0 10618.0    54.0 10639.0    56.2 10643.0
GR  60.3 10669.0    70.3 10690.0    73.6 10709.0    74.1 10720.0    79.1 13720.0
GR  99.1 13722.0
X1144.19     38.   10158   10698    1425    1425    1425
X3    10
GR 100.6  9955.0    80.6  9957.0    75.6 10057.0    76.7 10093.0    77.2 10102.0
GR  75.3 10122.0    60.0 10158.0    55.8 10172.0    54.9 10177.0    50.1 10199.0
GR  41.8 10218.0    25.9 10240.0    19.9 10279.0    21.9 10300.0    19.9 10338.0
GR  17.1 10358.0    17.1 10399.0    19.0 10439.0    19.0 10460.0    19.8 10478.0
GR  20.0 10499.0    19.0 10520.0    19.0 10539.0    21.2 10560.0    23.0 10599.0
GR  29.0 10639.0    34.8 10659.0    48.9 10678.0    55.7 10693.0    59.1 10698.0
GR  61.5 10747.0    64.6 10762.0    70.2 10771.0    69.3 10806.0    71.6 10821.0
GR  72.4 10846.0    77.4 13846.0    97.4 13848.0
X1144.38     38.   10107   10693    1003    1003    1003
X3    10
GR  92.8  9906.0    72.8  9908.0    67.8 10008.0    64.9 10058.0    62.5 10107.0
GR  56.1 10120.0    54.0 10128.0    54.0 10149.0    50.0 10168.0    35.0 10189.0
GR  26.2 10209.0    23.0 10229.0    23.2 10249.0    21.9 10270.0    21.9 10350.0
GR  21.0 10369.0    21.0 10391.0    22.9 10409.0    21.9 10430.0    23.1 10448.0
GR  23.0 10489.0    21.7 10511.0    24.0 10529.0    25.0 10551.0    24.1 10569.0
GR  26.0 10589.0    35.9 10610.0    43.0 10630.0    46.0 10649.0    55.9 10662.0
GR  70.2 10693.0    73.4 10732.0    76.6 10748.0    77.1 10769.0    76.2 10787.0
GR  76.4 10808.0    81.4 13808.0   101.4 13810.0
X1144.57     44.   10043   10881    1003    1003    1003
X3    10
GR 106.5  9842.0    86.5  9844.0    81.5  9944.0    74.3  9962.0    69.7  9993.0
GR  67.3 10043.0    59.7 10073.0    57.4 10099.0    56.0 10157.0    54.8 10160.0
GR  54.0 10178.0    49.8 10201.0    30.1 10239.0    28.0 10260.0    25.0 10281.0
GR  23.1 10300.0    20.1 10318.0    20.8 10342.0    18.6 10366.0    18.2 10380.0
GR  18.3 10419.0    13.1 10439.0    15.2 10460.0    16.2 10480.0    16.1 10522.0
GR  18.0 10557.0    18.0 10581.0    18.9 10598.0    27.1 10620.0    31.6 10625.0
GR  42.9 10639.0    49.8 10658.0    49.4 10738.0    53.7 10758.0    54.8 10778.0
GR  54.8 10798.0    55.8 10815.0    62.3 10862.0    73.7 10881.0    75.1 10899.0
GR  75.4 10915.0    75.1 10998.0    80.1 13998.0   100.1 14000.0
X1144.76     35.   10168   10847    1003    1003    1003
X3    10
GR 105.8  9953.0    85.8  9955.0    80.8 10055.0    78.4 10060.0    68.9 10122.0
GR  60.8 10168.0    57.3 10207.0    56.0 10208.0    53.8 10229.0    46.9 10249.0
GR  32.7 10270.0    24.9 10309.0    24.0 10329.0    24.1 10351.0    22.0 10389.0
GR  19.9 10410.0    18.8 10431.0    18.9 10471.0    19.9 10490.0    17.9 10509.0
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GR  17.9 10590.0    16.7 10610.0    16.8 10650.0    18.0 10669.0    30.0 10690.0
GR  44.8 10728.0    48.8 10747.0    51.1 10768.0    52.4 10790.0    56.2 10809.0
GR  66.8 10833.0    76.1 10847.0    76.3 10948.0    81.3 13948.0   101.3 13950.0
X1144.95     40.   10150   10833    1003    1003    1003
X3    10
GR 102.3  9914.0    82.3  9916.0    77.3 10016.0    81.5 10031.0    81.5 10048.0
GR  76.6 10068.0    75.7 10099.0    74.4 10109.0    68.4 10123.0    63.5 10150.0
GR  56.2 10181.0    53.1 10187.0    50.1 10208.0    29.1 10248.0    26.0 10269.0
GR  25.9 10310.0    24.0 10330.0    23.1 10350.0    23.1 10389.0    24.1 10409.0
GR  24.0 10429.0    28.1 10468.0    26.0 10508.0    26.0 10550.0    27.2 10570.0
GR  25.8 10588.0    26.9 10609.0    27.0 10669.0    29.1 10688.0    51.0 10728.0
GR  56.1 10746.0    63.4 10803.0    76.9 10833.0    77.4 10849.0    76.9 10870.0
GR  76.9 10901.0    76.9 10923.0    76.9 10947.0    81.9 13947.0   101.9 13949.0
X1145.13     39.   10118   10833     950     950     950
X3    10
GR 106.8  9936.0    86.8  9938.0    81.8 10038.0    81.9 10054.0    76.6 10071.0
GR  74.8 10118.0    64.6 10134.0    58.1 10149.0    56.3 10151.0    49.9 10168.0
GR  40.2 10187.0    35.1 10208.0    32.3 10228.0    27.9 10250.0    23.1 10269.0
GR  22.9 10290.0    25.0 10328.0    28.0 10349.0    28.0 10369.0    26.3 10389.0
GR  25.1 10410.0    26.0 10429.0    26.2 10468.0    25.0 10487.0    25.0 10549.0
GR  26.2 10569.0    26.1 10628.0    27.1 10648.0    27.0 10669.0    51.4 10727.0
GR  56.5 10743.0    57.1 10773.0    60.8 10798.0    77.8 10833.0    77.9 10872.0
GR  77.8 10898.0    77.8 10947.0    82.8 13947.0   102.8 13949.0
X1145.32     44.   10124   10823    1003    1003    1003
X3    10
GR 101.6  9924.0    81.6  9926.0    76.6 10026.0    88.8 10038.0    81.4 10049.0
GR  81.5 10064.0    78.4 10074.0    76.4 10083.0    74.5 10124.0    66.2 10174.0
GR  59.1 10211.0    56.2 10218.0    51.7 10238.0    49.8 10259.0    43.7 10280.0
GR  35.0 10299.0    29.2 10318.0    24.0 10340.0    23.9 10360.0    22.0 10380.0
GR  23.0 10400.0    20.9 10419.0    20.0 10439.0    21.0 10460.0    20.0 10479.0
GR  19.8 10499.0    21.8 10540.0    21.0 10560.0    23.0 10580.0    20.9 10620.0
GR  22.0 10640.0    25.9 10679.0    26.9 10700.0    25.9 10720.0    40.9 10738.0
GR  54.9 10778.0    56.3 10779.0    66.6 10817.0    70.4 10823.0    73.4 10848.0
GR  75.3 10872.0    76.3 10918.0    81.3 13918.0   101.3 13920.0
X1145.51     45.   10188   10818    1003    1003    1003
X3    10
GR 125.7  9807.0   105.7  9809.0   100.7  9909.0    98.9  9919.0    75.9  9948.0
GR  76.1  9963.0    72.9 10004.0    69.3 10025.0    68.2 10036.0    67.4 10058.0
GR  62.7 10128.0    59.5 10158.0    58.6 10188.0    54.9 10209.0    46.3 10248.0
GR  45.1 10270.0    40.9 10291.0    33.0 10311.0    28.3 10331.0    26.2 10350.0
GR  24.1 10391.0    22.2 10409.0    18.2 10429.0    23.0 10449.0    22.9 10470.0
GR  16.9 10489.0    14.0 10510.0    14.9 10530.0    14.7 10550.0    16.1 10570.0
GR  14.0 10611.0    13.9 10630.0    17.9 10650.0    21.5 10680.0    24.4 10696.0
GR  27.7 10709.0    42.1 10739.0    52.9 10768.0    62.6 10786.0    77.2 10818.0
GR  77.2 10848.0    77.2 10873.0    77.2 10948.0    82.2 13948.0   102.2 13950.0
X1145.70     37. 10129.0 10779.6    1003    1003    1003
X3    10
GR  88.4  9831.8    68.4  9833.8    63.4  9933.8    65.3  9959.6    67.4 10008.8
GR  65.2 10035.8    62.4 10060.2    59.8 10129.0    56.0 10158.5    55.2 10159.0
GR  51.9 10178.1    48.0 10219.0    29.9 10259.5    28.0 10279.5    23.8 10302.1
GR  22.1 10320.5    25.1 10340.8    25.1 10379.1    22.2 10441.9    22.0 10459.8
GR  20.7 10482.3    17.9 10501.3    13.0 10520.9    12.0 10541.3    12.2 10601.0
GR  13.3 10620.9    39.6 10677.6    49.9 10697.6    56.3 10728.1    58.5 10729.1
GR  62.3 10741.8    66.0 10758.6    72.9 10767.3    75.6 10779.6    76.6 10809.9
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GR  81.6 13809.9   101.6 13811.9
X1145.89     46. 10235.7 10783.8    1003    1003    1003
X3    10
GR  91.7  9847.5    71.7  9849.5    66.7  9949.5    68.2 10001.4    69.8 10025.9
GR  70.7 10050.1    63.7 10126.7    63.7 10155.4    63.7 10175.0    63.7 10200.0
GR  63.7 10219.6    63.7 10235.7    56.5 10260.0    53.1 10260.2    50.3 10280.6
GR  42.9 10299.4    37.7 10320.8    31.9 10340.9    22.1 10360.7    19.8 10380.5
GR  16.8 10400.0    17.0 10420.3    16.1 10440.3    16.1 10456.7    14.8 10481.3
GR  14.9 10521.5    13.9 10539.6    13.9 10559.5    12.1 10580.2    10.8 10599.9
GR   8.9 10620.1    11.1 10640.5    15.8 10661.4    18.2 10681.8    20.9 10700.2
GR  35.1 10718.7    46.5 10738.3    56.3 10760.7    64.8 10766.0    67.8 10776.3
GR  75.0 10783.8    76.0 10808.4    75.9 10858.6    75.5 10883.5    80.5 13883.5
GR 100.5 13885.5
X1146.08     45. 10120.1 10787.5    1003    1003    1003
X3    10
GR 106.7  9899.1    86.7  9901.1    81.7 10001.1    78.6 10012.2    75.3 10022.8
GR  73.0 10047.2    64.7 10068.9    67.5 10087.6    69.2 10099.9    65.0 10108.0
GR  61.2 10120.1    56.1 10149.6    52.2 10161.7    46.8 10180.3    35.7 10200.7
GR  29.0 10219.4    28.9 10240.2    26.9 10259.6    27.0 10319.0    23.8 10339.0
GR  24.0 10419.3    19.8 10499.2    20.8 10519.0    15.9 10539.6    15.8 10579.2
GR  14.9 10600.0    15.9 10618.3    25.6 10657.9    44.1 10698.1    48.6 10718.1
GR  50.5 10737.8    51.5 10757.6    54.4 10777.3    55.7 10777.7    57.2 10787.5
GR  59.4 10822.6    61.8 10846.2    65.0 10895.6    69.1 10906.7    73.8 10928.3
GR  75.1 10986.2    74.5 10997.1    74.8 11028.8    79.8 14028.8    99.8 14030.8
X1146.46     37.   10088   10697    2006    2006    2006
X3    10
GR 108.8  9896.0    88.8  9898.0    83.8  9998.0    82.9 10007.0    79.3 10018.0
GR  74.6 10036.0    70.5 10059.0    67.6 10088.0    64.1 10093.0    56.1 10102.0
GR  47.9 10119.0    34.0 10139.0    28.0 10160.0    25.0 10220.0    24.8 10240.0
GR  23.0 10280.0    24.0 10300.0    23.9 10339.0    26.1 10360.0    26.1 10380.0
GR  29.1 10440.0    27.9 10458.0    29.1 10478.0    29.1 10498.0    30.9 10540.0
GR  31.1 10560.0    34.0 10578.0    47.9 10618.0    56.1 10632.0    64.0 10682.0
GR  68.4 10697.0    69.8 10724.0    68.6 10743.0    68.4 10759.0    68.4 10796.0
GR  73.4 13796.0    93.4 13798.0
X1146.65     39.   10100   10646    1003    1003    1003
X3    10
GR 109.8  9897.0    89.8  9899.0    84.8  9999.0    84.2 10007.0    80.0 10019.0
GR  74.8 10040.0    69.6 10069.0    62.1 10100.0    60.7 10109.0    56.2 10132.0
GR  50.8 10139.0    41.1 10164.0    33.6 10185.0    25.1 10220.0    25.8 10240.0
GR  26.0 10259.0    24.1 10279.0    23.8 10340.0    25.9 10379.0    27.9 10399.0
GR  27.1 10420.0    29.2 10439.0    30.1 10458.0    30.1 10479.0    35.3 10578.0
GR  39.1 10598.0    46.1 10611.0    51.2 10637.0    56.5 10639.0    62.8 10646.0
GR  68.2 10662.0    69.1 10671.0    68.1 10682.0    62.8 10697.0    62.8 10729.0
GR  62.8 10747.0    62.8 10766.0    67.8 13766.0    87.8 13768.0
X1146.84     35.   10097   10637    1003    1003    1003
X3    10
GR 109.4  9895.0    89.4  9897.0    84.4  9997.0    83.8 10003.0    79.7 10016.0
GR  73.7 10038.0    69.3 10057.0    57.5 10097.0    56.1 10107.0    28.0 10159.0
GR  25.9 10178.0    25.9 10219.0    23.1 10240.0    23.0 10319.0    23.9 10339.0
GR  24.1 10359.0    23.1 10378.0    23.9 10399.0    26.1 10418.0    28.9 10437.0
GR  30.1 10458.0    31.9 10477.0    35.0 10497.0    35.0 10517.0    36.1 10538.0
GR  38.0 10557.0    42.9 10577.0    51.2 10596.0    56.7 10618.0    62.2 10637.0
GR  66.5 10662.0    62.2 10688.0    62.2 10733.0    67.2 13733.0    87.2 13735.0
X1147.03     39.   10128   10716    1003    1003    1003
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X3    10
GR 109.7  9887.0    89.7  9889.0    84.7  9989.0    83.8 10045.0    73.4 10077.0
GR  72.0 10089.0    68.9 10093.0    66.6 10103.0    63.1 10128.0    58.6 10149.0
GR  55.6 10153.0    28.8 10209.0    23.8 10230.0    21.6 10250.0    21.7 10270.0
GR  19.8 10310.0    19.7 10371.0    18.9 10391.0    18.9 10410.0    17.9 10428.0
GR  17.8 10448.0    22.7 10470.0    25.0 10491.0    25.9 10509.0    27.7 10529.0
GR  28.5 10549.0    33.0 10589.0    33.6 10610.0    36.3 10628.0    49.4 10645.0
GR  53.3 10668.0    55.8 10669.0    60.7 10681.0    66.0 10716.0    66.0 10741.0
GR  66.0 10766.0    66.7 10816.0    71.7 13816.0    91.7 13818.0
X1147.22     44.   10009   10858    1003    1003    1003
X3    10
GR 164.5  9644.0   144.5  9646.0   139.5  9746.0    84.6  9941.0    71.1  9985.0
GR  69.5 10009.0    63.4 10034.0    58.1 10054.0    56.3 10065.0    54.8 10069.0
GR  53.1 10087.0    49.8 10149.0    50.1 10169.0    48.9 10189.0    49.0 10208.0
GR  47.8 10229.0    25.9 10289.0    22.9 10311.0    21.9 10330.0    22.0 10349.0
GR  25.1 10388.0    25.2 10449.0    26.0 10469.0    26.0 10491.0    24.0 10530.0
GR  25.0 10550.0    25.1 10609.0    23.8 10629.0    25.1 10649.0    25.1 10670.0
GR  24.0 10689.0    26.1 10710.0    27.9 10749.0    30.2 10769.0    34.9 10789.0
GR  43.8 10808.0    51.8 10829.0    63.8 10842.0    69.1 10858.0    69.2 10879.0
GR  69.1 10907.0    69.1 10958.0    74.1 13958.0    94.1 13960.0
X1147.41     38.   10099   10699    1003    1003    1003
X3    10
GR  84.9  9798.0    64.9  9800.0    59.9  9900.0    58.8  9950.0    60.4 10000.0
GR  59.3 10027.0    59.4 10050.0    58.8 10076.0    58.8 10099.0    56.7 10115.0
GR  50.4 10140.0    31.1 10180.0    25.3 10200.0    20.9 10221.0    20.1 10243.0
GR  19.2 10260.0    19.0 10281.0    17.1 10320.0    14.9 10341.0     9.2 10379.0
GR   8.0 10400.0     8.1 10420.0     7.0 10440.0     6.8 10460.0    10.0 10519.0
GR  13.9 10539.0    24.1 10559.0    25.1 10578.0    47.8 10617.0    56.5 10642.0
GR  56.7 10651.0    61.0 10669.0    68.8 10687.0    75.9 10699.0    75.9 10724.0
GR  75.9 10748.0    80.9 13748.0   100.9 13750.0
X1147.60     36.   10049   10596    1003    1003    1003
X3    10
GR  87.8  9849.0    67.8  9851.0    62.8  9951.0    62.4  9975.0    62.4 10000.0
GR  62.4 10015.0    62.4 10030.0    62.4 10049.0    59.9 10075.0    56.2 10140.0
GR  51.6 10159.0    46.7 10179.0    36.8 10199.0    33.0 10218.0    29.8 10239.0
GR  25.0 10258.0    21.7 10278.0    15.9 10299.0    12.8 10319.0     7.9 10338.0
GR   1.7 10379.0    -2.2 10399.0    -5.2 10419.0    -3.0 10460.0     3.0 10479.0
GR  11.0 10498.0    15.0 10518.0    22.4 10526.0    36.5 10544.0    52.4 10569.0
GR  61.7 10584.0    70.2 10596.0    70.6 10643.0    70.2 10695.0    75.2 13695.0
GR  95.2 13697.0
X1147.80     37.   10187   10698    1056    1056    1056
X3    10
GR  88.1  9922.0    68.1  9924.0    63.1 10024.0    67.8 10075.0    66.2 10100.0
GR  67.0 10135.0    63.4 10175.0    60.9 10187.0    56.3 10205.0    53.2 10215.0
GR  51.3 10239.0    48.0 10259.0    38.1 10281.0    31.2 10302.0    25.6 10319.0
GR  21.3 10340.0    19.3 10360.0    18.2 10380.0    16.3 10399.0    15.2 10422.0
GR  13.0 10444.0    10.3 10460.0    10.3 10481.0    16.1 10537.0    20.2 10559.0
GR  28.1 10578.0    31.2 10598.0    38.1 10618.0    48.4 10638.0    51.4 10658.0
GR  60.8 10682.0    69.1 10698.0    69.1 10724.0    69.1 10748.0    69.1 10798.0
GR  74.1 13798.0    94.1 13800.0
X1147.98     33.   10110   10598     950     950     950
X3    10
GR  86.4  9905.0    66.4  9907.0    61.4 10007.0    61.9 10026.0    62.6 10050.0
GR  61.4 10075.0    61.4 10104.0    61.4 10110.0    56.3 10123.0    51.6 10141.0
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GR  43.5 10159.0    33.6 10180.0    29.9 10200.0    27.8 10240.0    23.8 10279.0
GR  18.1 10319.0    15.9 10338.0    18.0 10358.0    18.9 10378.0    21.8 10397.0
GR  24.0 10437.0    27.9 10458.0    28.6 10479.0    32.6 10518.0    37.4 10538.0
GR  56.5 10579.0    66.9 10598.0    67.9 10611.0    66.9 10638.0    67.2 10661.0
GR  68.4 10697.0    73.4 13697.0    93.4 13699.0
X1148.17     34.   10053   10649    1003    1003    1003
X3    10
GR  95.2  9807.0    75.2  9809.0    70.2  9909.0    71.0  9950.0    71.4  9979.0
GR  71.1 10008.0    64.7 10013.0    62.4 10030.0    58.7 10053.0    56.1 10055.0
GR  51.6 10070.0    47.1 10089.0    37.8 10110.0    33.0 10130.0    30.9 10149.0
GR  26.0 10250.0    26.0 10270.0    27.1 10289.0    23.0 10330.0    20.0 10389.0
GR  20.1 10450.0    22.2 10470.0    23.9 10509.0    32.0 10529.0    47.0 10550.0
GR  51.0 10569.0    52.9 10589.0    63.5 10641.0    68.8 10649.0    68.8 10674.0
GR  68.8 10698.0    68.8 10748.0    73.8 13748.0    93.8 13750.0
X1148.36     43.   10041   10589    1003    1003    1003
X3    10
GR  95.5  9796.0    75.5  9798.0    70.5  9898.0    71.5  9922.0    71.5  9948.0
GR  71.9  9973.0    71.6  9999.0    72.2 10022.0    71.3 10028.0    63.1 10041.0
GR  56.6 10044.0    50.8 10058.0    28.7 10098.0    25.2 10117.0    24.0 10138.0
GR  20.2 10158.0    16.8 10219.0    17.9 10238.0    17.9 10259.0    15.9 10278.0
GR  16.8 10299.0    15.8 10320.0    15.8 10337.0    16.9 10357.0    17.1 10377.0
GR  15.0 10418.0    18.2 10439.0    23.7 10457.0    33.0 10498.0    44.3 10509.0
GR  50.2 10538.0    51.2 10560.0    56.2 10578.0    61.7 10589.0    61.7 10625.0
GR  62.6 10649.0    61.7 10674.0    61.7 10699.0    70.4 10749.0    74.0 10758.0
GR  74.1 10859.0    79.1 13859.0    99.1 13861.0
X1148.55     41.   10056   10697    1003    1003    1003
X3    10
GR 110.6  9823.0    90.6  9825.0    85.6  9925.0    85.1  9931.0    73.3  9967.0
GR  73.3  9973.0    73.3  9997.0    73.3 10022.0    73.4 10031.0    73.7 10047.0
GR  73.3 10056.0    68.1 10066.0    60.7 10087.0    57.4 10103.0    56.6 10118.0
GR  44.8 10148.0    27.0 10168.0    11.0 10228.0    12.1 10249.0    11.9 10289.0
GR  15.0 10309.0    15.9 10329.0    15.9 10350.0    18.0 10390.0    17.9 10429.0
GR  20.0 10470.0    21.8 10488.0    24.9 10509.0    27.0 10530.0    31.8 10549.0
GR  48.7 10587.0    50.8 10607.0    54.6 10629.0    56.5 10632.0    58.8 10673.0
GR  61.6 10697.0    61.6 10748.0    61.6 10773.0    61.6 10799.0    66.6 13799.0
GR  86.6 13801.0
X1148.74     36.   10047   10673    1003    1003    1003
X3    10
GR 110.4  9870.0    90.4  9872.0    85.4  9972.0    75.0  9988.0    71.0 10021.0
GR  71.0 10037.0    71.0 10047.0    56.6 10167.0    49.0 10188.0    45.2 10208.0
GR  18.1 10268.0    15.0 10288.0    16.2 10309.0    14.9 10328.0    13.0 10349.0
GR  12.0 10368.0    12.9 10389.0    15.0 10408.0    16.0 10432.0    16.0 10451.0
GR  14.9 10468.0    15.0 10490.0    16.2 10510.0    20.0 10529.0    20.1 10551.0
GR  31.5 10592.0    48.1 10628.0    56.9 10667.0    61.5 10673.0    61.5 10698.0
GR  62.2 10723.0    62.4 10747.0    65.4 10772.0    67.3 10798.0    72.3 13798.0
GR  92.3 13800.0
X1148.93     38.   10087   10677    1003    1003    1003
X3    10
GR 111.4  9907.0    91.4  9909.0    86.4 10009.0    85.9 10015.0    74.8 10047.0
GR  67.3 10073.0    66.0 10087.0    62.6 10097.0    59.8 10114.0    56.7 10120.0
GR  55.0 10137.0    51.4 10160.0    33.2 10197.0    25.0 10219.0    19.0 10259.0
GR  20.0 10279.0    17.8 10300.0    17.9 10339.0    19.0 10360.0    13.9 10461.0
GR  17.0 10480.0    17.0 10500.0    20.1 10520.0    25.2 10541.0    40.1 10581.0
GR  44.0 10599.0    46.5 10620.0    51.1 10640.0    53.3 10660.0    56.9 10671.0
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GR  63.2 10676.0    63.4 10677.0    64.1 10727.0    63.4 10749.0    65.1 10774.0
GR  66.1 10799.0    71.1 13799.0    91.1 13801.0
X1149.12     38.   10039   10708    1003    1003    1003
X3    10
GR 110.3  9838.0    90.3  9840.0    85.3  9940.0    79.3  9961.0    74.5  9987.0
GR  76.3  9998.0    74.9 10023.0    73.7 10039.0    50.7 10138.0    49.9 10158.0
GR  50.9 10177.0    32.0 10219.0    28.6 10241.0    26.9 10260.0    26.9 10281.0
GR  26.0 10301.0    27.0 10321.0    27.0 10341.0    23.7 10401.0    24.2 10442.0
GR  27.9 10482.0    30.1 10521.0    31.8 10541.0    27.8 10561.0    27.8 10580.0
GR  30.3 10600.0    35.3 10620.0    51.2 10638.0    51.0 10659.0    52.8 10681.0
GR  57.1 10694.0    68.7 10708.0    71.4 10723.0    71.2 10753.0    68.7 10814.0
GR  68.7 10822.0    73.7 13822.0    93.7 13824.0
X1149.31     38.   10228   10872    1003    1003    1003
X3    10
GR 102.1  9895.0    82.1  9897.0    77.1  9997.0    85.1 10033.0    85.1 10044.0
GR  76.7 10066.0    67.7 10098.0    64.8 10125.0    63.4 10149.0    62.0 10161.0
GR  62.0 10199.0    62.0 10228.0    56.6 10247.0    49.6 10258.0    30.9 10299.0
GR  26.1 10318.0    25.0 10340.0    22.9 10361.0    20.9 10397.0    21.1 10462.0
GR  23.2 10498.0    23.0 10519.0    23.9 10539.0    24.0 10600.0    23.1 10621.0
GR  26.0 10639.0    32.0 10659.0    44.9 10680.0    50.9 10698.0    52.9 10720.0
GR  57.4 10748.0    56.9 10802.0    61.9 10834.0    68.2 10852.0    77.2 10872.0
GR  77.7 10925.0    82.7 13925.0   102.7 13927.0
X1149.50     36. 10083.2 10619.7    1003    1003    1003
X3    10
GR 110.6  9900.9    90.6  9902.9    85.6 10002.9    71.5 10055.3    69.5 10083.2
GR  64.5 10097.8    56.9 10104.7    55.0 10126.6    52.1 10148.1    49.7 10168.1
GR  29.2 10209.3    19.9 10288.8    20.2 10309.7    19.0 10329.1    19.1 10369.3
GR  17.9 10389.3    16.0 10410.7    17.3 10432.0    20.9 10468.1    24.1 10489.4
GR  25.2 10510.2    27.1 10529.0    28.0 10548.3    33.1 10569.9    47.2 10588.2
GR  57.1 10608.1    59.7 10609.9    62.6 10619.7    64.4 10628.6    64.6 10663.4
GR  65.1 10698.6    64.3 10709.1    62.6 10717.9    62.6 10718.0    67.6 13718.0
GR  87.6 13720.0
X1149.69     34.   10106   10678    1003    1003    1003
X3    10
GR 110.7  9928.0    90.7  9930.0    85.7 10030.0    75.7 10055.0    67.6 10082.0
GR  66.3 10106.0    52.9 10168.0    52.1 10189.0    47.8 10209.0    31.1 10249.0
GR  26.7 10270.0    22.7 10310.0    21.9 10328.0    21.9 10370.0    20.8 10390.0
GR  21.1 10430.0    19.9 10450.0    20.8 10470.0    23.1 10489.0    23.8 10510.0
GR  24.8 10529.0    25.0 10569.0    26.1 10591.0    26.1 10610.0    27.0 10630.0
GR  41.5 10650.0    51.2 10669.0    65.5 10678.0    66.7 10687.0    65.5 10712.0
GR  65.5 10752.0    65.5 10778.0    70.5 13778.0    90.5 13780.0
X1150.52     33.   10050   10655    4381    4381    4381
X3    10
GR  92.9  9903.0    72.9  9905.0    67.9 10005.0    64.6 10021.0    61.9 10050.0
GR  57.7 10070.0    52.6 10091.0    44.8 10131.0    41.8 10150.0    40.9 10169.0
GR  32.0 10229.0    23.1 10269.0    19.1 10291.0    19.1 10370.0    17.9 10390.0
GR  19.1 10410.0    22.8 10428.0    25.0 10451.0    29.0 10489.0    30.0 10509.0
GR  30.0 10530.0    35.9 10549.0    40.1 10589.0    41.0 10608.0    50.0 10628.0
GR  53.0 10649.0    61.4 10655.0    65.0 10670.0    61.4 10695.0    62.0 10722.0
GR  63.7 10748.0    68.7 13748.0    88.7 13750.0
X1150.71     38.   10165   10799    1003    1003    1003
X3    10
GR  96.4  9928.0    76.4  9930.0    71.4 10030.0    69.8 10047.0    69.8 10074.0
GR  69.8 10130.0    70.4 10141.0    69.8 10165.0    63.9 10181.0    59.7 10201.0
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GR  57.2 10212.0    55.1 10221.0    45.2 10241.0    41.3 10260.0    36.4 10281.0
GR  24.3 10361.0    24.4 10420.0    25.4 10439.0    24.2 10460.0    25.2 10480.0
GR  24.2 10500.0    26.1 10539.0    28.2 10561.0    30.0 10598.0    30.2 10619.0
GR  32.0 10660.0    33.7 10679.0    45.0 10699.0    50.8 10739.0    55.7 10759.0
GR  57.0 10760.0    63.2 10775.0    71.1 10799.0    71.1 10815.0    71.1 10842.0
GR  71.1 10879.0    76.1 13879.0    96.1 13881.0
X1150.90     38.   10106   10725    1003    1003    1003
X3    10
GR  92.8  9918.0    72.8  9920.0    67.8 10020.0    64.6 10025.0    64.5 10039.0
GR  67.3 10070.0    63.7 10106.0    62.3 10126.0    59.7 10131.0    57.0 10142.0
GR  49.0 10161.0    44.2 10180.0    27.0 10199.0    23.2 10219.0    24.2 10239.0
GR  24.2 10259.0    22.1 10279.0    22.2 10319.0    23.2 10340.0    23.2 10400.0
GR  22.2 10421.0    24.0 10440.0    23.1 10461.0    25.2 10479.0    28.1 10540.0
GR  30.1 10560.0    30.9 10580.0    31.1 10600.0    47.0 10639.0    52.1 10661.0
GR  57.4 10674.0    61.7 10699.0    65.1 10713.0    65.0 10725.0    65.0 10751.0
GR  65.0 10800.0    70.0 13800.0    90.0 13802.0
X1151.09     36.   10078   10713    1003    1003    1003
X3    10
GR  97.4  9915.0    77.4  9917.0    72.4 10017.0    67.5 10041.0    67.4 10060.0
GR  67.4 10078.0    62.3 10099.0    59.2 10110.0    57.1 10114.0    52.2 10119.0
GR  49.8 10141.0    39.9 10161.0    33.9 10179.0    23.0 10199.0    20.7 10220.0
GR  20.9 10300.0    19.8 10320.0    20.9 10340.0    21.1 10360.0    22.7 10399.0
GR  24.9 10420.0    26.8 10458.0    29.0 10479.0    30.0 10499.0    28.8 10519.0
GR  29.8 10540.0    29.8 10580.0    39.2 10601.0    48.6 10619.0    57.2 10676.0
GR  61.2 10699.0    65.5 10713.0    65.7 10747.0    67.3 10797.0    72.3 13797.0
GR  92.3 13799.0
X1151.28     37.   10086   10743    1003    1003    1003
X3    10
GR 100.7  9902.0    80.7  9904.0    75.7 10004.0    74.2 10012.0    70.0 10086.0
GR  66.0 10097.0    64.6 10107.0    60.3 10117.0    56.9 10122.0    56.5 10138.0
GR  49.8 10157.0    47.8 10177.0    47.8 10217.0    45.8 10237.0    28.7 10257.0
GR  21.9 10278.0    22.7 10297.0    22.9 10376.0    23.9 10397.0    24.0 10416.0
GR  25.0 10436.0    25.1 10456.0    26.0 10476.0    26.0 10536.0    28.1 10575.0
GR  27.9 10597.0    30.0 10636.0    37.0 10656.0    46.1 10675.0    51.9 10695.0
GR  57.4 10701.0    62.4 10720.0    70.8 10743.0    72.0 10785.0    71.0 10794.0
GR  76.0 13794.0    96.0 13796.0
X1151.47     32.   10121   10699    1003    1003    1003
X3    10
GR  92.1  9921.0    72.1  9923.0    67.1 10023.0    63.8 10038.0    61.6 10071.0
GR  60.6 10101.0    59.3 10121.0    51.2 10141.0    49.2 10161.0    39.9 10182.0
GR  32.9 10201.0    26.9 10221.0    23.0 10241.0    20.9 10261.0    18.1 10280.0
GR  17.0 10301.0    17.2 10379.0    19.1 10419.0    18.1 10440.0    18.1 10479.0
GR  19.3 10500.0    29.2 10540.0    39.0 10560.0    44.8 10579.0    55.2 10619.0
GR  57.4 10632.0    60.1 10663.0    65.9 10682.0    72.4 10699.0    72.4 10798.0
GR  77.4 13798.0    97.4 13800.0
X1151.66     34.   10090   10682    1003    1003    1003
X3    10
GR  92.1  9897.0    72.1  9899.0    67.1  9999.0    67.1 10020.0    67.1 10090.0
GR  60.7 10111.0    58.4 10129.0    43.2 10180.0    33.0 10201.0    28.0 10220.0
GR  24.0 10240.0    19.3 10258.0    17.2 10278.0    18.2 10300.0    18.2 10360.0
GR  17.2 10379.0    18.2 10400.0    16.2 10438.0    16.3 10479.0    14.2 10499.0
GR  17.0 10519.0    25.1 10540.0    31.1 10560.0    35.1 10581.0    44.1 10600.0
GR  51.2 10620.0    57.5 10629.0    60.5 10633.0    63.8 10660.0    71.1 10682.0
GR  71.9 10701.0    71.6 10724.0    76.6 13724.0    96.6 13726.0
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X1151.83     39.   10100   10734     897     897     897
X3    10
GR  89.5  9950.0    69.5  9952.0    64.5 10052.0    64.6 10077.0    64.5 10100.0
GR  61.2 10121.0    56.9 10125.0    50.0 10138.0    46.7 10159.0    46.9 10179.0
GR  44.9 10199.0    40.0 10219.0    36.5 10224.0    26.5 10239.0    19.2 10263.0
GR  14.0 10279.0    15.1 10298.0    14.1 10317.0    15.1 10340.0    14.9 10358.0
GR  16.0 10378.0    16.0 10419.0    16.8 10438.0    17.0 10458.0    15.0 10479.0
GR  17.6 10537.0    19.7 10558.0    35.0 10578.0    42.8 10598.0    45.1 10618.0
GR  50.9 10657.0    57.3 10675.0    65.4 10718.0    73.5 10734.0    76.3 10751.0
GR  77.0 10782.0    76.3 10796.0    81.3 13796.0   101.3 13798.0
X1152.06     38.   10101   10688    1214    1214    1214
X3    10
GR  87.4  9899.0    67.4  9901.0    62.4 10001.0    63.4 10020.0    63.9 10058.0
GR  62.4 10069.0    62.4 10081.0    62.4 10101.0    57.0 10115.0    55.8 10121.0
GR  50.0 10141.0    38.3 10161.0    25.9 10180.0    21.9 10199.0    18.9 10220.0
GR  18.9 10260.0    20.0 10279.0    20.1 10299.0    21.0 10320.0    19.9 10340.0
GR  20.0 10400.0    20.8 10420.0    19.9 10440.0    20.0 10458.0    18.8 10479.0
GR  19.0 10499.0    21.8 10519.0    36.9 10539.0    42.7 10560.0    44.7 10580.0
GR  49.7 10599.0    52.7 10621.0    62.0 10666.0    72.7 10688.0    73.2 10701.0
GR  72.9 10750.0    77.9 13750.0    97.9 13752.0
X1152.27     36.   10150   10729    1108    1108    1108
X3    10
GR  91.3  9949.0    71.3  9951.0    66.3 10051.0    66.3 10074.0    66.3 10099.0
GR  66.3 10127.0    66.3 10150.0    59.5 10169.0    57.3 10172.0    51.1 10191.0
GR  45.2 10211.0    34.1 10231.0    32.9 10252.0    31.1 10271.0    26.3 10290.0
GR  21.9 10332.0    21.1 10350.0    21.2 10390.0    19.2 10409.0    20.0 10430.0
GR  20.0 10511.0    22.1 10530.0    23.2 10550.0    21.2 10573.0    22.2 10590.0
GR  29.9 10609.0    43.1 10630.0    46.2 10649.0    50.6 10670.0    53.2 10690.0
GR  58.9 10708.0    68.6 10729.0    68.9 10749.0    68.6 10849.0    73.6 13849.0
GR  93.6 13851.0
X1152.46     33.   10090   10640    1003    1003    1003
X3    10
GR  95.4  9919.0    75.4  9921.0    70.4 10021.0    70.4 10047.0    70.4 10061.0
GR  70.4 10090.0    63.3 10132.0    57.1 10144.0    51.0 10161.0    33.0 10201.0
GR  25.9 10222.0    24.1 10241.0    20.0 10282.0    16.2 10301.0    16.2 10321.0
GR  15.2 10341.0    15.3 10381.0    14.1 10401.0    14.0 10421.0    12.9 10442.0
GR  13.0 10460.0    18.5 10481.0    30.0 10542.0    32.8 10560.0    43.7 10580.0
GR  57.2 10620.0    64.5 10626.0    69.2 10640.0    69.2 10681.0    69.2 10700.0
GR  69.2 10750.0    74.2 13750.0    94.2 13752.0
X1152.65     34. 10129.5 10608.0    1003    1003    1003
X3    10
GR  88.4  9937.3    68.4  9939.3    63.4 10039.3    62.4 10069.7    60.0 10098.2
GR  59.1 10129.5    57.5 10138.6    56.2 10139.2    51.9 10160.0    46.1 10179.9
GR  29.9 10220.3    22.0 10239.5    20.3 10261.0    16.9 10281.2    16.1 10299.6
GR  16.0 10320.4    12.1 10360.0     8.8 10380.2     6.9 10400.2     3.9 10419.8
GR  -2.0 10439.8     9.9 10461.3    19.0 10480.7    25.1 10499.9    34.1 10519.2
GR  45.4 10539.3    49.4 10558.7    52.5 10578.2    58.2 10589.0    70.8 10608.0
GR  70.8 10622.2    70.8 10658.3    75.8 13658.3    95.8 13660.3
X1152.89     32.   10086   10664    1267    1267    1267
X3    10
GR  95.7  9946.0    75.7  9948.0    70.7 10048.0    70.7 10086.0    56.0 10119.0
GR  48.0 10139.0    41.8 10159.0    25.7 10199.0    20.8 10219.0    15.0 10238.0
GR  15.0 10259.0    16.2 10279.0    14.9 10299.0    15.9 10317.0    20.0 10359.0
GR  22.2 10379.0    23.0 10399.0    25.0 10420.0    27.1 10458.0    25.9 10478.0
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GR  29.3 10539.0    33.9 10558.0    40.1 10579.0    50.1 10599.0    55.4 10619.0
GR  57.5 10620.0    63.6 10639.0    68.3 10664.0    68.3 10723.0    68.3 10749.0
GR  73.3 13749.0    93.3 13751.0
X1152.99     30.   10125   10701     528     528     528
X3    10
GR  94.0  9922.0    74.0  9924.0    69.0 10024.0    70.3 10090.0    69.0 10125.0
GR  64.1 10148.0    62.6 10158.0    43.8 10209.0    39.8 10217.0    35.1 10227.0
GR  38.9 10248.0    24.3 10269.0    21.9 10289.0    16.9 10388.0    16.9 10469.0
GR  18.1 10489.0    17.9 10529.0    22.0 10548.0    22.1 10568.0    26.8 10587.0
GR  38.1 10609.0    43.9 10628.0    52.1 10647.0    57.5 10658.0    60.0 10661.0
GR  63.2 10678.0    71.6 10701.0    71.6 10747.0    76.6 13747.0    96.6 13749.0
X1153.22     39. 10120.8 10687.1    1214    1214    1214
X3    10
GR  94.9  9899.5    74.9  9901.5    69.9 10001.5    71.3 10026.7    70.7 10056.0
GR  68.9 10077.0    70.3 10101.2    66.8 10120.8    55.8 10142.5    49.8 10160.8
GR  39.9 10180.5    31.2 10200.0    28.9 10220.0    29.1 10259.7    26.2 10279.3
GR  25.0 10300.2    26.1 10319.0    25.2 10338.4    23.1 10358.4    22.2 10379.3
GR  20.0 10400.3    20.2 10419.6    19.3 10440.6    21.2 10458.3    21.0 10479.6
GR  25.1 10520.0    24.0 10538.9    28.0 10560.4    32.9 10579.9    36.0 10600.0
GR  44.8 10620.1    51.0 10639.0    57.1 10655.9    59.1 10656.7    71.1 10687.1
GR  72.0 10699.9    72.3 10722.2    77.3 13722.2    97.3 13724.2
X1153.46     31.   10125   10782    1267    1267    1267
X3    10
GR  96.8  9945.0    76.8  9947.0    71.8 10047.0    71.8 10125.0    63.1 10148.0
GR  57.3 10189.0    54.0 10207.0    53.1 10228.0    50.3 10247.0    40.3 10268.0
GR  30.2 10288.0    26.0 10328.0    25.1 10348.0    26.2 10367.0    25.3 10387.0
GR  25.2 10408.0    23.2 10448.0    23.1 10490.0    21.9 10508.0    22.1 10529.0
GR  21.2 10547.0    22.1 10570.0    22.2 10609.0    28.3 10649.0    32.2 10671.0
GR  45.2 10708.0    56.1 10748.0    58.1 10754.0    74.4 10782.0    79.4 13782.0
GR  99.4 13784.0
X1153.69     40.   10087   10736    1214    1214    1214
X3    10
GR  88.4  9952.0    68.4  9954.0    63.4 10054.0    63.4 10069.0    63.4 10087.0
GR  61.2 10096.0    57.3 10104.0    40.7 10140.0    31.7 10158.0    28.9 10178.0
GR  29.1 10199.0    27.9 10219.0    28.9 10239.0    24.9 10278.0    25.0 10299.0
GR  26.1 10318.0    24.7 10338.0    25.0 10357.0    22.9 10378.0    21.7 10399.0
GR  22.1 10438.0    22.8 10458.0    23.0 10499.0    26.0 10518.0    24.9 10537.0
GR  29.0 10577.0    32.8 10598.0    48.0 10617.0    50.9 10638.0    55.0 10657.0
GR  56.0 10678.0    58.4 10697.0    67.5 10736.0    67.5 10747.0    70.0 10758.0
GR  74.6 10779.0    74.7 10798.0    75.5 10822.0    80.5 13822.0   100.5 13824.0
X1153.90     30.   10191   10747    1108    1108    1108
X3    10
GR  89.2  9946.0    69.2  9948.0    64.2 10048.0    71.2 10119.0    63.3 10135.0
GR  61.8 10149.0    61.5 10191.0    57.2 10193.0    31.0 10249.0    27.7 10270.0
GR  26.0 10309.0    27.0 10328.0    23.0 10369.0    22.9 10409.0    23.7 10429.0
GR  23.8 10470.0    22.9 10491.0    22.9 10590.0    24.0 10610.0    23.6 10630.0
GR  28.0 10649.0    42.1 10668.0    50.7 10688.0    57.7 10697.0    60.5 10708.0
GR  75.4 10747.0    75.5 10797.0    75.4 10848.0    80.4 13848.0   100.4 13850.0
X1154.09     39.   10125   10742    1003    1003    1003
X3    10
GR  93.1  9924.0    73.1  9926.0    68.1 10026.0    68.8 10034.0    71.5 10079.0
GR  71.8 10097.0    68.7 10117.0    68.1 10125.0    57.7 10138.0    32.2 10177.0
GR  26.1 10198.0    25.1 10219.0    25.0 10238.0    27.2 10258.0    24.9 10278.0
GR  24.2 10297.0    24.1 10317.0    23.1 10339.0    21.2 10358.0    21.0 10380.0
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GR  22.1 10399.0    22.0 10419.0    21.0 10439.0    21.1 10496.0    24.1 10559.0
GR  24.0 10577.0    26.9 10599.0    36.1 10620.0    46.2 10641.0    51.0 10660.0
GR  54.0 10680.0    58.0 10689.0    61.0 10705.0    66.0 10721.0    76.6 10742.0
GR  77.9 10801.0    76.8 10850.0    81.8 13850.0   101.8 13852.0
X1154.24     65.   10107   11277     792     792     792
X3    10
GR 129.1  9796.0   109.1  9798.0   104.1  9898.0    93.5  9952.0    79.6 10021.0
GR  78.0 10028.0    76.2 10058.0    76.2 10067.0    76.7 10098.0    76.2 10107.0
GR  66.3 10117.0    58.5 10138.0    54.0 10156.0    53.1 10157.0    49.9 10177.0
GR  38.1 10198.0    21.9 10218.0    15.8 10238.0    11.8 10259.0    15.0 10279.0
GR  19.1 10317.0    20.1 10338.0    24.0 10378.0    24.1 10398.0    25.1 10418.0
GR  27.1 10438.0    30.2 10497.0    34.1 10537.0    35.1 10557.0    33.0 10577.0
GR  35.2 10597.0    38.0 10617.0    42.0 10637.0    46.8 10656.0    50.2 10678.0
GR  50.0 10698.0    52.0 10716.0    52.0 10737.0    50.9 10758.0    50.8 10838.0
GR  52.1 10858.0    51.1 10877.0    51.1 10897.0    50.1 10919.0    50.0 10938.0
GR  48.1 10957.0    46.0 10999.0    47.1 11017.0    47.0 11038.0    49.9 11058.0
GR  51.0 11077.0    51.0 11097.0    52.1 11117.0    50.9 11138.0    52.9 11157.0
GR  53.0 11198.0    53.7 11207.0    57.6 11237.0    61.1 11257.0    73.5 11277.0
GR  74.5 11308.0    74.3 11347.0    73.6 11377.0    78.6 14377.0    98.6 14379.0
X1154.46     42.   10053   10763    1161    1161    1161
X3    10
GR 150.4  9547.0   130.4  9549.0   125.4  9649.0   124.0  9656.0    71.7  9705.0
GR  71.7  9748.0    71.7  9777.0    71.7  9792.0    71.7  9819.0    71.7  9828.0
GR  71.7  9915.0    71.7  9923.0    71.7  9998.0    71.7 10053.0    61.2 10068.0
GR  52.0 10088.0    50.1 10108.0    42.1 10128.0    30.1 10148.0    24.8 10169.0
GR  18.9 10190.0    17.1 10210.0    15.0 10229.0    15.9 10249.0    13.9 10269.0
GR  16.0 10309.0    15.9 10329.0    16.9 10349.0    18.9 10370.0    21.9 10430.0
GR  22.0 10491.0    30.1 10529.0    32.0 10550.0    38.9 10568.0    44.1 10589.0
GR  50.8 10608.0    54.8 10628.0    58.7 10697.0    65.2 10763.0    65.2 10798.0
GR  70.2 13798.0    90.2 13800.0
X1154.66     34.   10230   10827    1056    1056    1056
X3    10
GR 111.7  9896.0    91.7  9898.0    86.7  9998.0    86.5 10005.0    70.7 10059.0
GR  67.9 10090.0    61.2 10128.0    58.2 10168.0    56.4 10209.0    56.4 10230.0
GR  53.1 10239.0    49.0 10260.0    31.0 10300.0    24.9 10340.0    22.8 10380.0
GR  22.9 10460.0    21.9 10479.0    24.0 10499.0    24.0 10579.0    22.8 10599.0
GR  22.9 10659.0    21.0 10680.0    24.2 10700.0    30.3 10719.0    39.0 10739.0
GR  49.8 10759.0    53.5 10770.0    57.4 10779.0    62.3 10798.0    67.9 10827.0
GR  67.9 10929.0    67.9 10978.0    72.9 13978.0    92.9 13980.0
X1154.80     40.   10129   10690     739     739     739
X3    10
GR  93.9  9818.0    73.9  9820.0    68.9  9920.0    62.5  9949.0    58.4 10009.0
GR  57.8 10049.0    58.5 10075.0    57.2 10099.0    55.8 10119.0    55.5 10129.0
GR  53.9 10136.0    52.0 10149.0    45.8 10170.0    36.7 10190.0    32.1 10209.0
GR  29.2 10230.0    26.8 10251.0    25.0 10289.0    25.9 10309.0    24.0 10350.0
GR  24.0 10370.0    22.0 10409.0    22.0 10469.0    23.0 10490.0    23.0 10509.0
GR  22.0 10529.0    22.0 10549.0    19.9 10570.0    26.0 10609.0    47.1 10649.0
GR  53.7 10676.0    68.6 10690.0    68.6 10708.0    70.6 10747.0    73.5 10773.0
GR  74.9 10800.0    78.4 10848.0    78.6 10858.0    83.6 13858.0   103.6 13860.0
X1154.97     35.   10126   10659     897     897     897
X3    10
GR  86.5  9846.0    66.5  9848.0    61.5  9948.0    65.7  9998.0    64.7 10048.0
GR  65.7 10098.0    61.5 10126.0    53.3 10138.0    53.8 10151.0    44.0 10179.0
GR  36.2 10198.0    26.9 10220.0    21.0 10239.0    20.0 10259.0    16.0 10299.0
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GR  16.0 10339.0    17.2 10359.0    17.2 10379.0    14.1 10401.0    14.2 10439.0
GR  16.1 10459.0    14.9 10480.0    19.1 10520.0    25.9 10539.0    29.9 10558.0
GR  45.2 10578.0    53.7 10609.0    57.6 10626.0    71.5 10659.0    71.5 10678.0
GR  71.5 10748.0    71.5 10797.0    71.6 10822.0    76.6 13822.0    96.6 13824.0
X1155.26     39.   10123   10648    1531    1531    1531
X3    10
GR  80.7  9856.0    60.7  9858.0    55.7  9958.0    55.9 10016.0    58.1 10058.0
GR  58.1 10087.0    55.7 10109.0    55.7 10123.0    52.0 10128.0    45.9 10148.0
GR  35.7 10168.0    24.0 10189.0    19.9 10210.0    18.9 10229.0    16.1 10249.0
GR  16.0 10289.0    17.0 10309.0    16.9 10328.0    16.1 10349.0    16.1 10369.0
GR  16.9 10390.0    17.0 10408.0    19.1 10430.0    20.1 10449.0    20.0 10490.0
GR  22.0 10509.0    25.2 10531.0    32.0 10549.0    40.9 10568.0    47.0 10587.0
GR  53.8 10602.0    59.5 10638.0    60.5 10648.0    62.8 10698.0    66.9 10728.0
GR  71.0 10747.0    71.6 10796.0    76.6 13796.0    96.6 13798.0
X1155.38     30.   10073   10622     633     633     633
X3    10
GR  95.6  9806.0    75.6  9808.0    70.6  9908.0    71.0  9942.0    69.0 10002.0
GR  64.5 10028.0    60.2 10073.0    53.9 10077.0    51.2 10088.0    48.1 10108.0
GR  47.0 10129.0    31.1 10169.0    24.8 10189.0    17.0 10229.0    13.1 10270.0
GR  14.0 10289.0    14.0 10309.0    20.8 10448.0    26.0 10469.0    22.1 10489.0
GR  47.9 10547.0    53.6 10568.0    58.4 10589.0    64.6 10622.0    64.7 10648.0
GR  64.6 10668.0    64.6 10723.0    64.6 10748.0    69.6 13748.0    89.6 13750.0
X1155.69     31.   10115   10553    1636    1636    1636
X3    10
GR  85.0  9895.0    65.0  9897.0    60.0  9997.0    59.3 10018.0    58.5 10048.0
GR  58.5 10073.0    58.7 10096.0    58.5 10115.0    50.9 10138.0    48.0 10158.0
GR  45.8 10178.0    40.1 10199.0    30.1 10218.0    24.9 10239.0    21.9 10258.0
GR  18.9 10320.0    16.1 10338.0    13.8 10359.0    10.0 10379.0     4.1 10419.0
GR   6.2 10439.0    18.3 10459.0    35.0 10477.0    45.1 10496.0    49.2 10518.0
GR  54.0 10529.0    72.3 10553.0    72.5 10598.0    72.3 10668.0    77.3 13668.0
GR  97.3 13670.0
X1155.79     30.   10101   10543     528     528     528
X3    10
GR  87.5  9925.0    67.5  9927.0    62.5 10027.0    58.6 10055.0    58.6 10101.0
GR  53.8 10110.0    51.9 10117.0    41.9 10148.0    33.9 10179.0    32.0 10199.0
GR  30.2 10238.0    22.1 10319.0    19.0 10339.0    14.1 10359.0     4.1 10379.0
GR   2.1 10400.0     2.1 10419.0     5.2 10440.0    12.5 10460.0    34.3 10480.0
GR  42.1 10499.0    49.1 10518.0    58.9 10532.0    66.0 10539.0    71.6 10543.0
GR  71.6 10558.0    71.6 10598.0    71.6 10698.0    76.6 13698.0    96.6 13700.0
X1156.00     33.   10092   10609    1108    1108    1108
X3    10
GR  87.2  9900.0    67.2  9902.0    62.2 10002.0    56.3 10053.0    57.4 10080.0
GR  56.3 10092.0    53.5 10098.0    51.2 10120.0    45.4 10138.0    33.2 10179.0
GR  32.2 10198.0    32.3 10237.0    28.9 10262.0    27.3 10277.0    26.1 10299.0
GR  22.1 10339.0    18.9 10358.0    20.1 10379.0    13.8 10439.0    14.9 10460.0
GR  18.3 10480.0    21.9 10498.0    29.3 10519.0    40.0 10532.0    48.3 10547.0
GR  54.8 10558.0    57.7 10569.0    59.9 10594.0    67.1 10609.0    72.5 10662.0
GR  73.8 10699.0    78.8 13699.0    98.8 13701.0
X1156.23     42.   10120   10852    1214    1214    1214
X3    10
GR  91.4  9928.0    71.4  9930.0    66.4 10030.0    65.6 10042.0    65.3 10066.0
GR  60.0 10093.0    60.0 10120.0    52.3 10169.0    51.3 10189.0    48.2 10209.0
GR  47.2 10230.0    45.4 10249.0    44.3 10269.0    44.4 10290.0    42.5 10329.0
GR  39.2 10350.0    37.4 10390.0    37.2 10411.0    35.4 10430.0    30.2 10463.0
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GR  25.3 10489.0    22.3 10510.0    23.5 10530.0    21.3 10569.0    21.4 10590.0
GR  22.2 10610.0    20.4 10629.0    20.5 10649.0    22.3 10690.0    24.4 10710.0
GR  27.5 10730.0    32.4 10751.0    37.4 10769.0    47.7 10789.0    52.7 10810.0
GR  55.6 10815.0    60.5 10830.0    69.6 10852.0    69.6 10899.0    69.6 10950.0
GR  74.6 13950.0    94.6 13952.0
X1156.40     28.   10102   10666     897     897     897
X3    10
GR  88.8  9896.0    68.8  9898.0    63.8  9998.0    63.8 10031.0    63.8 10049.0
GR  65.4 10067.0    63.8 10102.0    57.6 10115.0    44.4 10158.0    40.8 10178.0
GR  10.9 10259.0     2.1 10321.0     0.0 10339.0    -1.1 10360.0    -1.0 10380.0
GR  -4.9 10419.0    -4.8 10439.0    -3.0 10460.0    -2.9 10539.0    -1.0 10560.0
GR   7.3 10579.0    30.5 10598.0    42.1 10616.0    49.6 10636.0    54.6 10648.0
GR  65.8 10666.0    70.8 13666.0    90.8 13668.0
X1156.55     42.   10108   10847     792     792     792
X3    10
GR  90.5  9906.0    70.5  9908.0    65.5 10008.0    65.5 10050.0    65.5 10089.0
GR  65.5 10108.0    58.5 10118.0    53.1 10128.0    48.2 10148.0    34.9 10190.0
GR  27.0 10210.0    23.1 10250.0    23.0 10269.0    16.9 10290.0    17.1 10310.0
GR  19.9 10330.0    19.0 10351.0    19.2 10368.0    17.0 10391.0    15.9 10410.0
GR  13.8 10430.0    12.0 10470.0    12.0 10491.0    14.0 10509.0    17.0 10530.0
GR  17.2 10549.0    15.1 10568.0    15.1 10590.0    18.3 10609.0    28.1 10649.0
GR  35.2 10668.0    39.3 10687.0    41.5 10707.0    39.1 10748.0    41.2 10786.0
GR  56.1 10825.0    58.8 10835.0    60.6 10847.0    60.6 10861.0    60.6 10897.0
GR  65.6 13897.0    85.6 13899.0
X1156.72     36.   10015   10879     897     897     897
X3    10
GR  92.8  9910.0    72.8  9912.0    67.8 10012.0    67.8 10015.0    59.1 10020.0
GR  54.6 10029.0    52.0 10040.0    47.0 10060.0    39.0 10100.0    33.2 10140.0
GR  29.0 10161.0    22.9 10202.0    21.0 10241.0    22.2 10261.0    24.0 10280.0
GR  26.1 10320.0    26.2 10358.0    24.9 10379.0    31.1 10498.0    39.1 10519.0
GR  46.1 10539.0    49.3 10559.0    50.6 10579.0    52.4 10598.0    52.1 10658.0
GR  53.3 10678.0    53.1 10697.0    54.7 10710.0    56.3 10758.0    56.5 10816.0
GR  63.4 10879.0    63.5 10897.0    63.4 10921.0    63.4 10986.0    68.4 13986.0
GR  88.4 13988.0
X1157.03     29.   10054   10619    1636    1636    1636
X3    10
GR  96.6  9947.0    76.6  9949.0    71.6 10049.0    71.2 10054.0    60.1 10074.0
GR  55.1 10079.0    44.2 10110.0    28.5 10131.0    25.2 10151.0    20.2 10171.0
GR  18.4 10190.0    18.4 10213.0    23.2 10311.0    25.2 10331.0    27.3 10370.0
GR  27.2 10390.0    29.5 10431.0    29.2 10450.0    30.1 10472.0    32.2 10492.0
GR  33.4 10509.0    48.2 10549.0    52.5 10569.0    54.5 10578.0    59.1 10619.0
GR  61.4 10649.0    68.4 10687.0    73.4 13687.0    93.4 13689.0
X1157.22     34.   10126   10718    1003    1003    1003
X3    10
GR 100.6  9898.0    80.6  9900.0    75.6 10000.0    75.6 10049.0    75.6 10126.0
GR  70.2 10135.0    61.1 10162.0    58.3 10179.0    55.2 10191.0    51.3 10199.0
GR  33.1 10221.0    24.3 10259.0    23.5 10300.0    13.3 10320.0    13.2 10340.0
GR  14.4 10359.0    14.3 10379.0    18.2 10419.0    21.4 10478.0    21.2 10499.0
GR  22.2 10519.0    26.3 10539.0    32.1 10578.0    37.2 10599.0    45.0 10617.0
GR  51.8 10637.0    54.7 10657.0    57.8 10697.0    62.5 10713.0    66.4 10718.0
GR  66.4 10758.0    66.4 10798.0    71.4 13798.0    91.4 13800.0
X1157.39     37.   10114   10651     897     897     897
X3    10
GR 103.2  9903.0    83.2  9905.0    78.2 10005.0    78.2 10040.0    78.2 10062.0
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GR  78.2 10074.0    78.6 10079.0    78.2 10098.0    78.2 10114.0    72.1 10119.0
GR  54.6 10151.0    38.4 10189.0    34.1 10200.0    29.3 10219.0    18.2 10240.0
GR  12.2 10260.0     9.3 10280.0     7.0 10300.0     8.2 10319.0    10.2 10338.0
GR  13.3 10360.0    15.0 10398.0    18.4 10420.0    22.1 10439.0    25.2 10458.0
GR  31.4 10478.0    35.5 10498.0    51.2 10536.0    54.1 10557.0    52.4 10576.0
GR  53.3 10599.0    55.0 10613.0    58.2 10624.0    62.0 10651.0    63.2 10722.0
GR  68.2 13722.0    88.2 13724.0
X1157.60     37.   10118   10684    1108    1108    1108
X3    10
GR 111.4  9894.0    91.4  9896.0    86.4  9996.0    86.5 10003.0    73.3 10062.0
GR  73.3 10097.0    73.3 10110.0    73.3 10118.0    70.2 10128.0    62.2 10147.0
GR  58.7 10166.0    54.6 10170.0    42.0 10198.0    29.7 10220.0    13.7 10240.0
GR   9.2 10259.0    10.1 10281.0    10.1 10318.0    10.9 10340.0    19.0 10420.0
GR  18.0 10440.0    21.6 10477.0    27.9 10521.0    35.0 10540.0    45.2 10558.0
GR  52.2 10579.0    55.4 10597.0    54.0 10603.0    53.9 10641.0    57.6 10658.0
GR  62.0 10673.0    68.8 10684.0    68.8 10708.0    70.6 10758.0    71.6 10787.0
GR  76.6 13787.0    96.6 13789.0
X1158.06     36. 10077.9 10654.7    2428    2428    2428
X3    10
GR 112.6  9896.8    92.6  9898.8    87.6  9998.8    87.3 10007.2    77.0 10051.1
GR  77.0 10064.5    77.0 10077.9    64.4 10098.4    58.7 10118.4    54.7 10123.4
GR  44.0 10180.2    28.8 10200.3    19.1 10220.3    14.2 10240.7    12.1 10260.1
GR  13.1 10280.4    13.0 10300.8    15.3 10321.1    16.2 10340.5    16.2 10360.9
GR  17.1 10380.7    17.1 10421.0    18.1 10440.8    17.0 10460.7    19.2 10500.4
GR  37.4 10541.4    48.2 10560.6    53.3 10578.9    55.0 10579.0    57.3 10587.8
GR  59.9 10619.5    68.9 10654.7    68.9 10689.0    69.1 10757.0    74.1 13757.0
GR  94.1 13759.0
X1158.25     31.   10061   10614    1003    1003    1003
X3    10
GR 112.6  9895.0    92.6  9897.0    87.6  9997.0    75.3 10038.0    74.4 10061.0
GR  61.2 10108.0    55.0 10127.0    51.1 10138.0    47.0 10159.0    41.9 10179.0
GR  29.9 10199.0    23.1 10218.0    18.9 10239.0    19.1 10280.0    20.0 10300.0
GR  20.0 10383.0    21.0 10399.0    21.0 10420.0    24.0 10479.0    23.0 10500.0
GR  25.1 10519.0    44.3 10559.0    51.1 10579.0    55.0 10596.0    59.1 10601.0
GR  60.4 10606.0    64.9 10614.0    69.4 10657.0    69.2 10698.0    74.2 13698.0
GR  94.2 13700.0
X1158.44     35.   10119   10614    1003    1003    1003
X3    10
GR 102.0  9845.0    82.0  9847.0    77.0  9947.0    78.1  9986.0    79.0 10009.0
GR  76.2 10028.0    70.1 10047.0    63.5 10089.0    59.8 10108.0    58.5 10119.0
GR  52.7 10127.0    46.7 10148.0    38.1 10168.0    24.8 10189.0    21.8 10208.0
GR  22.0 10229.0    22.9 10247.0    23.0 10268.0    22.0 10288.0    22.0 10329.0
GR  21.0 10348.0    21.0 10430.0    19.0 10467.0    24.8 10488.0    23.1 10508.0
GR  27.0 10529.0    44.3 10547.0    51.0 10568.0    54.6 10604.0    58.8 10614.0
GR  58.8 10636.0    60.6 10687.0    68.1 10703.0    73.1 13703.0    93.1 13705.0
X1158.63     31.   10084   10673    1003    1003    1003
X3    10
GR 110.2  9896.0    90.2  9898.0    85.2  9998.0    86.8 10005.0    86.8 10016.0
GR  67.0 10084.0    56.5 10170.0    51.2 10199.0    43.7 10219.0    27.9 10260.0
GR  25.0 10281.0    21.2 10300.0    21.1 10320.0    22.1 10340.0    22.1 10360.0
GR  19.1 10420.0    19.0 10460.0    21.9 10518.0    22.1 10542.0    23.1 10562.0
GR  25.1 10580.0    40.0 10599.0    50.9 10618.0    54.6 10659.0    62.1 10673.0
GR  62.1 10707.0    62.1 10730.0    63.9 10748.0    65.4 10777.0    70.4 13777.0
GR  90.4 13779.0
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X1158.82     39.   10158   10652    1003    1003    1003
X3    10
GR 111.4  9896.0    91.4  9898.0    86.4  9998.0    86.3 10003.0    71.1 10053.0
GR  70.2 10066.0    67.1 10075.0    61.6 10098.0    59.0 10123.0    59.3 10148.0
GR  57.9 10158.0    54.9 10160.0    28.9 10218.0    26.8 10239.0    26.0 10259.0
GR  26.8 10280.0    25.1 10299.0    24.0 10319.0    24.0 10339.0    22.9 10358.0
GR  23.0 10399.0    21.0 10439.0    20.8 10460.0    20.0 10479.0    20.8 10498.0
GR  24.2 10519.0    24.7 10536.0    27.0 10559.0    29.7 10578.0    37.9 10596.0
GR  48.0 10617.0    55.0 10637.0    59.2 10640.0    63.3 10652.0    63.3 10676.0
GR  63.3 10695.0    63.3 10815.0    68.3 13815.0    88.3 13817.0
X1159.20     35.   10074   10567    2006    2006    2006
X3    10
GR 108.7  9895.0    88.7  9897.0    83.7  9997.0    83.6 10005.0    69.3 10049.0
GR  67.5 10067.0    66.5 10074.0    54.9 10090.0    51.9 10099.0    25.9 10140.0
GR  22.9 10159.0    17.1 10179.0    16.1 10201.0    17.0 10221.0    17.1 10241.0
GR  18.2 10260.0    16.2 10280.0    17.2 10300.0    17.2 10340.0    20.2 10400.0
GR  26.2 10421.0    27.4 10441.0    29.2 10460.0    39.2 10484.0    46.6 10499.0
GR  55.2 10521.0    59.1 10535.0    61.2 10550.0    67.3 10567.0    68.5 10594.0
GR  71.8 10613.0    72.5 10629.0    72.2 10646.0    77.2 13646.0    97.2 13648.0
X1159.39     36. 10080.5 10590.2    1003    1003    1003
X3    10
GR 112.3  9901.5    92.3  9903.5    87.3 10003.5    73.2 10056.6    72.0 10068.6
GR  69.6 10080.5    62.1 10098.6    54.5 10112.8    43.8 10140.9    39.6 10160.9
GR  17.2 10220.2    17.0 10241.0    18.0 10259.9    18.0 10279.8    20.1 10320.5
GR  22.0 10340.3    21.2 10360.7    22.1 10381.5    22.1 10442.2    23.0 10460.0
GR  25.1 10480.4    30.7 10499.1    40.1 10521.2    50.9 10541.3    53.6 10560.1
GR  54.8 10561.0    57.9 10578.8    61.3 10590.2    62.8 10618.5    65.2 10639.3
GR  66.8 10663.1    68.1 10670.5    68.0 10678.9    66.4 10698.9    71.4 13698.9
GR  91.4 13700.9
X1159.59     31.   10106   10627    1056    1056    1056
X3    10
GR 113.3  9896.0    93.3  9898.0    88.3  9998.0    88.1 10006.0    71.6 10061.0
GR  67.6 10086.0    63.6 10106.0    54.9 10121.0    34.9 10141.0    25.2 10161.0
GR  24.2 10179.0    24.2 10221.0    23.2 10241.0    23.3 10360.0    25.2 10383.0
GR  25.1 10422.0    26.3 10441.0    26.3 10461.0    33.9 10480.0    45.5 10500.0
GR  52.5 10520.0    54.2 10540.0    53.1 10560.0    55.5 10599.0    60.1 10618.0
GR  65.4 10627.0    68.6 10680.0    65.8 10718.0    65.4 10739.0    70.4 13739.0
GR  90.4 13741.0
X1159.73     40.   10135   10714     739     739     739
X3    10
GR 100.1  9898.0    80.1  9900.0    75.1 10000.0    72.6 10010.0    72.6 10045.0
GR  72.6 10089.0    72.6 10120.0    72.6 10135.0    60.8 10150.0    54.2 10170.0
GR  50.2 10179.0    44.2 10200.0    34.2 10219.0    30.4 10240.0    23.5 10258.0
GR  23.6 10280.0    25.5 10300.0    26.4 10320.0    22.5 10359.0    21.6 10379.0
GR  21.5 10400.0    20.3 10420.0    21.5 10440.0    23.5 10459.0    24.5 10480.0
GR  26.5 10500.0    29.5 10518.0    31.4 10540.0    31.3 10561.0    33.4 10579.0
GR  49.3 10619.0    51.4 10640.0    54.6 10654.0    58.6 10668.0    62.2 10699.0
GR  65.3 10714.0    66.3 10754.0    68.0 10799.0    73.0 13799.0    93.0 13801.0
X1159.88     39.   10100   10756     792     792     792
X3    10
GR 112.9  9903.0    92.9  9905.0    87.9 10005.0    76.6 10043.0    69.1 10087.0
GR  68.9 10100.0    66.3 10121.0    55.0 10197.0    53.9 10199.0    48.9 10219.0
GR  45.9 10240.0    32.0 10260.0    38.9 10279.0    39.8 10299.0    34.8 10319.0
GR  31.6 10340.0    16.6 10380.0    16.8 10402.0    18.7 10440.0    20.8 10459.0
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GR  21.8 10480.0    23.7 10499.0    24.9 10519.0    26.8 10539.0    27.8 10558.0
GR  27.7 10579.0    28.9 10599.0    31.0 10618.0    39.0 10637.0    50.9 10657.0
GR  53.1 10676.0    55.1 10682.0    63.5 10731.0    70.1 10756.0    71.7 10776.0
GR  70.1 10796.0    70.1 10827.0    75.1 13827.0    95.1 13829.0
X1160.00     34.   10149   10679     633     633     633
X3    10
GR 113.4  9897.0    93.4  9899.0    88.4  9999.0    87.7 10005.0    75.6 10044.0
GR  68.5 10098.0    65.3 10149.0    62.0 10172.0    57.3 10190.0    52.6 10200.0
GR  45.8 10220.0    40.8 10239.0    30.9 10259.0    26.9 10278.0    26.9 10299.0
GR  23.8 10359.0    19.9 10398.0    20.0 10420.0    22.8 10478.0    24.8 10497.0
GR  25.9 10518.0    27.8 10538.0    27.8 10558.0    28.8 10578.0    31.6 10598.0
GR  36.7 10618.0    51.7 10638.0    54.9 10646.0    63.5 10679.0    65.0 10708.0
GR  69.7 10767.0    72.0 10785.0    77.0 13785.0    97.0 13787.0
X1160.13     34.   10161   10723     686     686     686
X3    10
GR 113.8  9899.0    93.8  9901.0    88.8 10001.0    88.6 10006.0    78.0 10039.0
GR  77.2 10050.0    71.0 10081.0    69.9 10100.0    67.5 10161.0    63.6 10171.0
GR  47.2 10200.0    30.0 10220.0    25.1 10241.0    23.2 10261.0    21.3 10301.0
GR  21.0 10421.0    22.2 10440.0    24.1 10461.0    25.0 10481.0    26.9 10500.0
GR  27.9 10521.0    28.0 10540.0    29.9 10580.0    36.9 10600.0    55.1 10635.0
GR  58.3 10645.0    62.1 10674.0    65.9 10689.0    70.1 10710.0    73.3 10723.0
GR  74.1 10749.0    73.3 10798.0    78.3 13798.0    98.3 13800.0
X1160.28     39.   10088   10690     792     792     792
X3    10
GR 113.0  9897.0    93.0  9899.0    88.0  9999.0    87.5 10004.0    79.1 10035.0
GR  78.6 10058.0    78.6 10088.0    73.6 10099.0    58.3 10159.0    55.6 10174.0
GR  53.6 10179.0    47.4 10219.0    46.4 10239.0    35.3 10259.0    26.2 10280.0
GR  23.2 10301.0    21.0 10320.0    20.3 10341.0    20.2 10379.0    18.0 10420.0
GR  18.2 10440.0    17.2 10459.0    17.1 10519.0    18.3 10540.0    18.2 10559.0
GR  20.2 10578.0    27.4 10599.0    42.5 10618.0    47.7 10638.0    50.7 10658.0
GR  59.0 10690.0    60.5 10737.0    60.7 10749.0    64.4 10772.0    69.1 10787.0
GR  76.1 10796.0    73.7 10847.0    78.7 13847.0    98.7 13849.0
X1160.51     30.   10049   10648    1214    1214    1214
X3    10
GR  88.0  9947.0    68.0  9949.0    63.0 10049.0    58.2 10055.0    54.4 10069.0
GR  48.2 10109.0    26.0 10168.0    25.1 10187.0    22.9 10207.0    22.0 10228.0
GR  22.0 10290.0    18.8 10348.0    18.9 10370.0    17.8 10388.0    17.7 10408.0
GR  19.9 10430.0    22.7 10448.0    27.9 10468.0    40.9 10488.0    46.9 10507.0
GR  48.1 10529.0    50.2 10550.0    54.0 10568.0    55.1 10585.0    58.6 10608.0
GR  62.9 10619.0    80.2 10648.0    80.2 10739.0    85.2 13739.0   105.2 13741.0
X1160.67     31.   10049   10625     844     844     844
X3    10
GR  84.3  9947.0    64.3  9949.0    59.3 10049.0    56.0 10069.0    55.3 10072.0
GR  54.1 10089.0    48.1 10109.0    37.0 10128.0    31.0 10150.0    31.1 10189.0
GR  30.1 10209.0    28.2 10229.0    27.2 10249.0    27.2 10270.0    26.0 10290.0
GR  24.1 10312.0    22.1 10350.0    18.1 10370.0    16.9 10390.0    17.0 10410.0
GR  19.1 10451.0    22.2 10470.0    24.2 10491.0    27.0 10510.0    31.0 10530.0
GR  47.2 10550.0    51.2 10570.0    76.4 10625.0    77.1 10656.0    82.1 13656.0
GR 102.1 13658.0
X1160.86     38.   10039   10649    1003    1003    1003
X3    10
GR  88.5  9779.0    68.5  9781.0    63.5  9881.0    63.5  9899.0    63.5  9970.0
GR  63.5 10021.0    63.5 10039.0    51.9 10111.0    50.0 10131.0    42.8 10150.0
GR  32.9 10171.0    27.7 10191.0    23.9 10210.0    22.9 10231.0    22.9 10251.0
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GR  21.7 10270.0    22.8 10291.0    22.8 10311.0    18.8 10390.0    17.8 10411.0
GR  13.7 10430.0    11.7 10451.0     8.0 10470.0    12.9 10491.0    13.8 10510.0
GR  18.8 10529.0    45.8 10570.0    54.8 10610.0    63.3 10626.0    65.9 10634.0
GR  71.9 10645.0    72.1 10649.0    72.3 10650.0    72.1 10685.0    72.1 10712.0
GR  72.1 10724.0    77.1 13724.0    97.1 13726.0
X1161.05     37.   10139   10697    1003    1003    1003
X3    10
GR  87.2  9906.0    67.2  9908.0    62.2 10008.0    62.6 10054.0    67.0 10069.0
GR  62.1 10094.0    59.5 10112.0    57.1 10139.0    54.9 10142.0    51.9 10148.0
GR  47.9 10169.0    36.8 10188.0    30.9 10208.0    23.9 10227.0    18.0 10248.0
GR  19.7 10268.0    18.9 10288.0    18.8 10348.0    17.7 10368.0    19.0 10388.0
GR  16.9 10428.0    16.9 10508.0    19.0 10527.0    19.9 10547.0    25.5 10567.0
GR  37.9 10587.0    48.9 10607.0    55.1 10631.0    57.2 10646.0    55.0 10666.0
GR  58.7 10676.0    64.2 10697.0    69.8 10737.0    72.1 10746.0    75.7 10756.0
GR  80.7 13756.0   100.7 13758.0
X1161.40     40.   10101   10739    1848    1848    1848
X3    10
GR 112.0  9897.0    92.0  9899.0    87.0  9999.0    86.8 10005.0    77.8 10033.0
GR  75.8 10067.0    74.3 10086.0    71.7 10101.0    64.8 10121.0    54.8 10146.0
GR  50.4 10161.0    47.5 10181.0    42.5 10201.0    32.5 10221.0    21.8 10260.0
GR  18.8 10281.0    18.7 10300.0    17.7 10320.0    21.6 10341.0    19.7 10361.0
GR  19.6 10381.0    20.8 10401.0    20.7 10420.0    21.8 10440.0    21.7 10460.0
GR  22.7 10479.0    22.5 10540.0    23.6 10559.0    23.5 10619.0    27.5 10640.0
GR  35.4 10659.0    46.3 10680.0    50.3 10700.0    54.5 10715.0    59.5 10727.0
GR  63.2 10739.0    64.8 10769.0    64.6 10849.0    69.6 13849.0    89.6 13851.0
X1161.59     46. 10100.4 10738.7    1003    1003    1003
X3    10
GR 112.4  9799.0    92.4  9801.0    87.4  9901.0    81.2  9919.9    79.6  9933.3
GR  73.6  9971.1    72.2  9999.4    71.0 10038.2    64.0 10067.0    63.5 10100.4
GR  59.1 10119.7    55.1 10138.6    52.9 10140.6    33.1 10201.7    28.0 10221.1
GR  24.9 10240.9    24.9 10260.8    23.9 10280.7    23.8 10300.6    21.1 10320.5
GR  20.9 10340.4    22.1 10361.8    20.2 10380.2    22.0 10421.0    21.0 10439.9
GR  22.1 10460.8    22.0 10481.2    20.9 10500.1    22.0 10520.0    24.2 10541.9
GR  26.0 10580.2    28.0 10601.6    28.0 10621.5    33.9 10640.5    47.9 10661.0
GR  49.9 10679.9    51.0 10700.8    54.0 10720.2    55.3 10722.2    59.4 10738.7
GR  61.7 10760.5    61.0 10789.9    65.0 10816.3    64.0 10841.2    69.0 13841.2
GR  89.0 13843.2
X1161.80     46.   10032   10817    1108    1108    1108
X3    10
GR 102.2  9893.0    82.2  9895.0    77.2  9995.0    76.3 10007.0    74.6 10012.0
GR  74.3 10027.0    74.0 10032.0    67.5 10053.0    61.1 10083.0    55.2 10108.0
GR  54.0 10129.0    52.1 10148.0    46.0 10169.0    29.1 10209.0    26.0 10230.0
GR  25.0 10249.0    21.9 10269.0    17.0 10290.0    16.9 10309.0    21.2 10350.0
GR  21.0 10370.0    22.1 10390.0    21.1 10410.0    21.0 10430.0    20.0 10449.0
GR  17.0 10470.0    16.0 10490.0     4.1 10550.0    -3.1 10570.0    -9.1 10590.0
GR  -5.2 10609.0     4.9 10649.0    13.1 10670.0    19.9 10689.0    24.0 10709.0
GR  33.0 10730.0    45.1 10749.0    54.0 10769.0    59.0 10799.0    63.4 10809.0
GR  68.2 10817.0    68.2 10848.0    68.2 10878.0    68.2 10908.0    73.2 13908.0
GR  93.2 13910.0
X1161.94     30.   10153   10716     739     739     739
X3    10
GR 103.4 10020.0    83.4 10022.0    78.4 10122.0    78.2 10137.0    78.2 10153.0
GR  67.1 10169.0    62.5 10190.0    55.5 10195.0    53.0 10199.0    46.0 10220.0
GR  37.1 10239.0    32.1 10259.0    28.0 10279.0    27.0 10299.0    27.0 10340.0
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GR  24.9 10380.0    24.9 10559.0    21.8 10580.0    22.9 10600.0    28.9 10638.0
GR  30.0 10659.0    59.7 10701.0    61.4 10709.0    65.9 10716.0    69.5 10745.0
GR  72.6 10764.0    72.1 10800.0    70.2 10860.0    75.2 13860.0    95.2 13862.0
X1162.23     45.   10046   10698    1531    1531    1531
X3    10
GR 102.4  9905.0    82.4  9907.0    77.4 10007.0    77.3 10031.0    76.9 10046.0
GR  71.4 10064.0    64.5 10087.0    58.5 10103.0    55.4 10107.0    50.9 10119.0
GR  47.0 10139.0    40.1 10158.0    29.9 10179.0    26.9 10199.0    28.9 10219.0
GR  23.7 10239.0    20.9 10259.0    19.9 10279.0    24.1 10319.0    24.0 10339.0
GR  26.0 10358.0    26.0 10379.0    24.0 10399.0    26.0 10419.0    26.1 10439.0
GR  27.0 10459.0    29.0 10478.0    27.0 10499.0    27.9 10519.0    27.9 10538.0
GR  29.0 10559.0    34.0 10577.0    40.0 10598.0    51.8 10617.0    55.5 10629.0
GR  60.4 10648.0    64.1 10670.0    68.3 10698.0    68.3 10723.0    68.6 10773.0
GR  68.3 10797.0    72.6 10839.0    71.6 10897.0    76.6 13897.0    96.6 13899.0
X1162.39     35.   10191   10762     844     844     844
X3    10
GR 101.3 10067.0    81.3 10069.0    76.3 10169.0    76.3 10191.0    62.9 10230.0
GR  55.5 10258.0    53.9 10260.0    45.0 10280.0    34.9 10301.0    33.1 10320.0
GR  26.0 10341.0    11.9 10360.0     6.0 10381.0     4.9 10401.0    13.1 10440.0
GR  17.0 10480.0    20.0 10501.0    22.0 10521.0    23.9 10560.0    26.9 10581.0
GR  29.1 10601.0    34.9 10640.0    40.1 10661.0    48.9 10680.0    55.5 10707.0
GR  60.2 10731.0    65.6 10762.0    65.7 10786.0    65.6 10802.0    65.6 10813.0
GR  65.6 10851.0    65.6 10872.0    65.6 10901.0    70.6 13901.0    90.6 13903.0
X1162.60     46.   10028   10790    1108    1108    1108
X3    10
GR 101.8  9878.0    81.8  9880.0    76.8  9980.0    73.9 10028.0    68.1 10050.0
GR  62.2 10080.0    59.7 10105.0    55.7 10119.0    52.2 10140.0    51.1 10160.0
GR  51.1 10180.0    53.2 10200.0    54.2 10220.0    52.1 10239.0    50.2 10260.0
GR  44.2 10279.0    37.1 10299.0    32.2 10320.0    28.0 10340.0    25.0 10360.0
GR  25.0 10379.0    23.0 10399.0    22.1 10420.0    22.1 10440.0    21.0 10459.0
GR  23.1 10480.0    22.0 10499.0    23.2 10519.0    21.1 10540.0    21.0 10620.0
GR  21.9 10640.0    24.9 10659.0    26.0 10680.0    30.0 10700.0    36.9 10719.0
GR  49.2 10741.0    55.5 10758.0    64.4 10779.0    64.9 10782.0    69.9 10790.0
GR  70.8 10814.0    69.9 10825.0    69.9 10849.0    69.9 10899.0    74.9 13899.0
GR  94.9 13901.0
X1162.80     33.   10118   10650    1056    1056    1056
X3    10
GR  81.6  9897.0    61.6  9899.0    56.6  9999.0    56.6 10024.0    60.3 10049.0
GR  58.3 10072.0    56.6 10100.0    56.7 10117.0    56.6 10118.0    48.9 10141.0
GR  33.8 10159.0    27.0 10179.0    24.9 10200.0    26.1 10219.0    26.1 10280.0
GR  25.0 10299.0    26.2 10320.0    24.1 10361.0    25.1 10380.0    25.1 10400.0
GR  26.1 10419.0    26.2 10478.0    26.0 10500.0    27.1 10520.0    29.0 10540.0
GR  36.2 10559.0    46.2 10579.0    55.6 10611.0    63.8 10629.0    80.5 10650.0
GR  80.5 10670.0    85.5 13670.0   105.5 13672.0
X1162.99     33.   10077   10555    1003    1003    1003
X3    10
GR  91.8  9884.0    71.8  9886.0    66.8  9986.0    69.1 10036.0    69.5 10050.0
GR  66.8 10077.0    62.8 10085.0    55.7 10086.0    52.1 10099.0    43.8 10119.0
GR  35.9 10158.0    32.1 10199.0    27.0 10218.0    24.9 10259.0    25.0 10279.0
GR  24.1 10298.0    22.1 10318.0    19.0 10339.0    20.1 10359.0    19.0 10379.0
GR  21.2 10399.0    22.2 10419.0    21.1 10439.0    24.1 10458.0    41.2 10498.0
GR  52.8 10519.0    55.7 10522.0    60.8 10539.0    69.5 10549.0    76.1 10555.0
GR  76.1 10650.0    81.1 13650.0   101.1 13652.0
X1163.18     31.   10192   10647    1003    1003    1003
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X3    10
GR  91.8  9988.0    71.8  9990.0    66.8 10090.0    60.8 10138.0    60.6 10148.0
GR  59.3 10165.0    59.6 10186.0    59.1 10192.0    38.1 10239.0    33.2 10258.0
GR  27.2 10319.0    25.2 10358.0    22.1 10379.0    21.2 10399.0    21.2 10421.0
GR  22.2 10439.0    19.1 10500.0    17.0 10520.0    22.1 10540.0    24.2 10558.0
GR  32.6 10577.0    47.9 10598.0    55.9 10617.0    64.1 10630.0    69.3 10642.0
GR  75.3 10647.0    75.3 10675.0    76.9 10692.0    75.3 10731.0    80.3 13731.0
GR 100.3 13733.0
X1163.32     34.   10126   10636     739     739     739
X3    10
GR  92.8  9934.0    72.8  9936.0    67.8 10036.0    66.1 10091.0    66.1 10126.0
GR  51.9 10158.0    46.0 10178.0    36.0 10198.0    28.9 10218.0    25.9 10239.0
GR  24.1 10258.0    18.1 10299.0    16.0 10318.0    16.1 10339.0    18.2 10358.0
GR  18.2 10379.0    16.0 10419.0    19.2 10439.0    18.0 10458.0    19.2 10478.0
GR  21.1 10498.0    21.1 10519.0    31.1 10538.0    39.4 10558.0    49.2 10579.0
GR  53.2 10597.0    56.0 10599.0    60.9 10618.0    69.5 10636.0    71.0 10682.0
GR  69.8 10698.0    69.5 10748.0    74.5 13748.0    94.5 13750.0
X1163.54     37.   10127   10659    1161    1161    1161
X3    10
GR  93.2  9927.0    73.2  9929.0    68.2 10029.0    64.2 10068.0    64.2 10100.0
GR  64.2 10119.0    64.2 10127.0    55.3 10157.0    52.8 10160.0    38.7 10200.0
GR  31.8 10220.0    27.8 10240.0    26.8 10259.0    24.9 10279.0    21.8 10300.0
GR  20.8 10320.0    16.8 10340.0    17.0 10359.0    15.8 10378.0    17.8 10419.0
GR  17.7 10479.0    18.8 10500.0    18.8 10520.0    21.8 10539.0    25.8 10559.0
GR  45.8 10599.0    52.7 10619.0    55.3 10631.0    60.6 10649.0    64.5 10659.0
GR  66.7 10675.0    68.0 10699.0    66.2 10721.0    64.9 10726.0    64.5 10745.0
GR  69.5 10845.0    89.5 10847.0
X1163.76     34.   10126   10670    1161    1161    1161
X3    10
GR  91.6  9888.0    71.6  9890.0    66.6  9990.0    63.5 10041.0    63.8 10052.0
GR  63.5 10126.0    55.2 10163.0    50.4 10180.0    33.5 10220.0    31.6 10240.0
GR  31.5 10260.0    29.5 10280.0    29.5 10301.0    26.7 10320.0    25.4 10340.0
GR  25.4 10361.0    24.5 10381.0    22.5 10401.0    21.5 10421.0    21.6 10441.0
GR  19.5 10480.0    20.5 10500.0    20.4 10520.0    21.5 10540.0    27.4 10580.0
GR  35.6 10600.0    51.2 10621.0    54.9 10628.0    70.7 10670.0    70.9 10696.0
GR  70.8 10751.0    75.3 10777.0    80.3 10877.0   100.3 10879.0
X1163.93     33.   10130   10664     897     897     897
X3    10
GR  96.5  9931.0    76.5  9933.0    71.5 10033.0    67.2 10059.0    65.8 10089.0
GR  65.1 10115.0    63.6 10130.0    56.0 10144.0    35.0 10199.0    30.9 10220.0
GR  29.0 10239.0    24.1 10260.0    23.1 10280.0    25.1 10299.0    23.0 10319.0
GR  23.1 10441.0    22.0 10461.0    21.9 10481.0    20.9 10500.0    21.9 10521.0
GR  24.1 10541.0    29.9 10560.0    39.6 10580.0    52.4 10602.0    56.1 10611.0
GR  59.9 10626.0    71.9 10657.0    77.5 10664.0    77.5 10689.0    77.5 10731.0
GR  77.5 10772.0    82.5 10872.0   102.5 10874.0
X1164.10     40.   10098   10691     897     897     897
X3    10
GR  98.1  9857.0    78.1  9859.0    73.1  9959.0    65.4  9983.0    63.6  9992.0
GR  62.0 10012.0    64.2 10031.0    62.8 10044.0    63.6 10053.0    58.6 10098.0
GR  55.6 10103.0    49.0 10121.0    35.8 10141.0    30.6 10161.0    24.9 10201.0
GR  23.0 10240.0    23.0 10261.0    21.8 10280.0    20.0 10300.0    20.0 10322.0
GR  21.9 10360.0    25.9 10401.0    28.7 10460.0    28.7 10481.0    30.7 10501.0
GR  38.6 10521.0    42.7 10541.0    50.7 10561.0    54.9 10590.0    68.1 10665.0
GR  73.5 10691.0    74.4 10701.0    74.5 10717.0    73.7 10721.0    74.0 10725.0
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GR  74.1 10731.0    73.5 10743.0    74.6 10750.0    79.6 10850.0    99.6 10852.0
X1164.34     38.   10100   10711    1267    1267    1267
X3    10
GR  88.4  9898.0    68.4  9900.0    63.4 10000.0    63.4 10051.0    63.5 10068.0
GR  63.4 10100.0    62.2 10119.0    59.5 10154.0    55.8 10182.0    52.0 10201.0
GR  48.9 10220.0    41.0 10241.0    28.1 10255.0    22.3 10262.0    20.2 10281.0
GR  14.2 10301.0    11.1 10321.0     7.1 10342.0     2.2 10362.0     1.4 10380.0
GR   -.6 10400.0    -1.6 10422.0     4.3 10462.0     3.3 10482.0     3.4 10502.0
GR  19.0 10541.0    40.9 10580.0    44.0 10600.0    44.9 10620.0    54.9 10660.0
GR  61.0 10682.0    66.4 10698.0    76.4 10711.0    77.2 10758.0    76.4 10775.0
GR  76.4 10799.0    81.4 10899.0   101.4 10901.0
X1164.54     40.   10117   10653    1056    1056    1056
X3    10
GR  98.2  9911.0    78.2  9913.0    73.2 10013.0    71.8 10044.0    71.8 10068.0
GR  71.8 10117.0    67.8 10129.0    60.9 10143.0    56.2 10161.0    52.4 10181.0
GR  49.4 10200.0    40.4 10220.0    30.1 10240.0    22.1 10280.0    22.0 10301.0
GR  18.1 10320.0    18.0 10341.0    17.1 10361.0    11.0 10381.0    14.0 10401.0
GR  10.1 10420.0     3.8 10442.0     1.9 10461.0     1.9 10481.0     7.1 10501.0
GR   7.0 10520.0    11.1 10541.0    13.0 10561.0    30.3 10579.0    37.3 10599.0
GR  46.8 10620.0    53.7 10639.0    56.7 10642.0    64.4 10653.0    64.6 10697.0
GR  76.2 10852.0    88.6 10893.0    88.7 10898.0    93.7 10998.0   113.7 11000.0
X1164.74     42.   10139   10636    1056    1056    1056
X3    10
GR  98.8  9923.0    78.8  9925.0    73.8 10025.0    75.3 10075.0    66.2 10110.0
GR  63.0 10139.0    56.0 10166.0    52.1 10176.0    49.4 10195.0    41.2 10217.0
GR  31.8 10237.0    24.1 10258.0    16.2 10297.0    18.1 10317.0    13.1 10338.0
GR  12.1 10357.0    13.1 10377.0    13.0 10402.0    12.1 10417.0    12.1 10437.0
GR  10.2 10477.0     9.0 10498.0    15.0 10518.0    20.0 10537.0    33.1 10577.0
GR  39.4 10598.0    50.4 10617.0    55.9 10630.0    59.3 10636.0    59.3 10638.0
GR  59.3 10650.0    60.3 10664.0    60.8 10695.0    62.2 10721.0    64.5 10746.0
GR  71.2 10795.0    74.7 10831.0    76.3 10857.0    76.7 10870.0    75.6 10895.0
GR  80.6 10995.0   100.6 10997.0
X1164.98     40.   10101   10701    1267    1267    1267
X3    10
GR 104.4  9899.0    84.4  9901.0    79.4 10001.0    78.8 10024.0    79.9 10050.0
GR  79.0 10069.0    77.6 10085.0    77.6 10101.0    55.5 10115.0    45.6 10161.0
GR  32.8 10180.0    28.8 10200.0    21.8 10220.0    19.8 10240.0    19.9 10260.0
GR  14.8 10280.0    15.8 10300.0    14.7 10319.0    17.8 10339.0    19.8 10379.0
GR  19.8 10442.0    20.8 10459.0    20.6 10479.0    21.7 10498.0    20.5 10519.0
GR  21.7 10541.0    23.6 10559.0    27.6 10579.0    30.3 10597.0    39.3 10618.0
GR  54.9 10655.0    61.4 10676.0    67.5 10701.0    67.5 10712.0    67.5 10747.0
GR  67.5 10769.0    67.6 10786.0    74.5 10796.0    79.5 10896.0    99.5 10898.0
X1165.19     39.   10052   10720    1108    1108    1108
X3    10
GR 104.0  9919.0    84.0  9921.0    79.0 10021.0    76.6 10052.0    68.5 10091.0
GR  63.0 10122.0    58.0 10136.0    54.9 10152.0    47.0 10187.0    40.2 10209.0
GR  32.3 10228.0    29.4 10248.0    27.2 10268.0    21.4 10290.0    13.6 10329.0
GR  11.6 10370.0    12.6 10389.0    14.4 10408.0    15.6 10430.0    15.6 10450.0
GR  18.5 10469.0    20.4 10490.0    21.5 10509.0    23.5 10529.0    23.4 10549.0
GR  25.5 10570.0    28.3 10589.0    34.4 10608.0    51.2 10650.0    55.0 10668.0
GR  61.1 10688.0    65.0 10705.0    71.2 10720.0    71.3 10728.0    71.2 10747.0
GR  71.2 10768.0    71.2 10798.0    76.2 10898.0    96.2 10900.0
X1165.39     34.   10065   10527    1056    1056    1056
X3    10
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GR 101.4  9885.0    81.4  9887.0    76.4  9987.0    76.4  9997.0    76.4 10009.0
GR  76.4 10026.0    76.4 10065.0    62.2 10090.0    60.8 10098.0    55.5 10100.0
GR  47.6 10119.0    21.0 10180.0    18.9 10199.0    18.0 10219.0    10.0 10239.0
GR   4.0 10259.0     2.0 10279.0     4.0 10299.0     4.0 10319.0    17.0 10379.0
GR  20.9 10419.0    30.8 10460.0    49.5 10497.0    55.5 10512.0    58.9 10514.0
GR  61.9 10527.0    61.9 10548.0    61.9 10589.0    61.9 10598.0    64.0 10621.0
GR  66.3 10648.0    67.0 10697.0    72.0 10797.0    92.0 10799.0
X1165.61     36.   10108   10700    1161    1161    1161
X3    10
GR  97.9  9945.0    77.9  9947.0    72.9 10047.0    71.0 10078.0    71.0 10098.0
GR  71.0 10108.0    59.3 10130.0    55.6 10139.0    54.5 10140.0    48.9 10159.0
GR  37.5 10180.0    25.8 10241.0    19.8 10260.0    12.7 10280.0    10.0 10301.0
GR   7.9 10340.0     7.9 10361.0     7.0 10380.0     6.9 10400.0     9.2 10422.0
GR  14.1 10440.0    24.0 10482.0    29.7 10521.0    40.9 10560.0    42.9 10582.0
GR  48.8 10601.0    55.9 10651.0    59.9 10700.0    62.4 10750.0    66.1 10831.0
GR  67.3 10839.0    68.0 10861.0    68.6 10901.0    69.0 10908.0    74.0 11008.0
GR  94.0 11010.0
X1165.75     39.   10041   10873     739     739     739
X3    10
GR 105.7  9905.0    85.7  9907.0    80.7 10007.0    77.1 10017.0    69.1 10041.0
GR  63.5 10064.0    59.5 10090.0    55.9 10108.0    52.9 10120.0    44.7 10161.0
GR  31.8 10201.0    27.8 10221.0    27.9 10261.0    26.9 10281.0    29.8 10340.0
GR  29.8 10361.0    26.7 10381.0    27.7 10401.0    27.6 10521.0    29.6 10560.0
GR  29.6 10580.0    28.5 10601.0    29.7 10620.0    29.7 10641.0    31.3 10661.0
GR  34.5 10680.0    36.4 10701.0    39.4 10721.0    43.2 10740.0    50.0 10761.0
GR  53.2 10781.0    55.2 10798.0    68.9 10860.0    74.0 10873.0    74.1 10925.0
GR  74.0 10948.0    74.0 10980.0    79.0 11080.0    99.0 11082.0
X1165.95     40.   10111   10829    1056    1056    1056
X3    10
GR  92.1  9926.0    72.1  9928.0    67.1 10028.0    68.1 10038.0    67.2 10050.0
GR  64.7 10057.0    62.7 10111.0    53.6 10178.0    46.6 10199.0    36.6 10220.0
GR  31.0 10237.0    30.9 10279.0    31.9 10299.0    30.0 10338.0    30.1 10377.0
GR  29.1 10398.0    29.0 10439.0    31.1 10460.0    32.1 10479.0    31.8 10538.0
GR  29.9 10558.0    26.8 10618.0    26.9 10638.0    29.8 10657.0    23.9 10677.0
GR  32.0 10699.0    33.9 10717.0    33.9 10738.0    41.9 10778.0    51.4 10797.0
GR  55.8 10809.0    60.8 10829.0    60.8 10862.0    62.3 10899.0    70.6 10923.0
GR  73.5 10950.0    76.2 10998.0    76.5 11022.0    81.5 11122.0   101.5 11124.0
X1166.16     42.   10040   10848    1108    1108    1108
X3    10
GR  99.6  9921.0    79.6  9923.0    74.6 10023.0    65.0 10040.0    59.9 10057.0
GR  55.9 10092.0    55.7 10100.0    50.8 10119.0    48.8 10139.0    41.0 10159.0
GR  33.9 10181.0    32.0 10220.0    32.9 10240.0    31.8 10260.0    31.9 10320.0
GR  30.9 10339.0    32.1 10359.0    30.9 10379.0    31.0 10438.0    32.0 10460.0
GR  32.0 10498.0    29.8 10520.0    27.0 10539.0    26.9 10598.0    29.0 10618.0
GR  29.0 10639.0    28.1 10660.0    28.0 10679.0    30.2 10699.0    35.7 10718.0
GR  47.2 10739.0    54.9 10758.0    62.2 10798.0    69.7 10825.0    75.6 10848.0
GR  78.9 10898.0    79.3 10997.0    82.2 11049.0    81.1 11069.0    89.4 11092.0
GR  94.4 11192.0   114.4 11194.0
X1166.37     39.   10098   10827    1108    1108    1108
X3    10
GR 106.6  9840.0    86.6  9842.0    81.6  9942.0    81.3  9952.0    67.2  9997.0
GR  63.8 10026.0    60.7 10069.0    59.1 10098.0    56.0 10103.0    50.7 10119.0
GR  44.8 10159.0    34.7 10199.0    30.9 10219.0    29.9 10239.0    26.7 10260.0
GR  25.0 10279.0    24.9 10299.0    26.9 10319.0    31.0 10339.0    30.8 10418.0
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GR  33.9 10479.0    34.1 10498.0    32.0 10520.0    32.1 10559.0    33.0 10579.0
GR  33.1 10618.0    32.1 10640.0    32.2 10698.0    35.1 10718.0    46.2 10737.0
GR  51.1 10758.0    55.0 10777.0    56.4 10779.0    62.6 10811.0    69.9 10827.0
GR  71.3 10847.0    87.9 10889.0    92.9 10989.0   112.9 10991.0
X1166.57     36.   10087   10810    1056    1056    1056
X3    10
GR  86.2  9969.0    66.2  9971.0    61.2 10071.0    61.2 10087.0    57.9 10094.0
GR  56.0 10119.0    31.7 10219.0    29.8 10239.0    29.7 10299.0    30.7 10321.0
GR  30.8 10379.0    31.8 10400.0    31.7 10459.0    32.9 10479.0    32.6 10499.0
GR  31.8 10518.0    31.9 10537.0    29.7 10558.0    31.6 10578.0    30.7 10598.0
GR  30.7 10619.0    31.6 10638.0    33.5 10657.0    36.9 10679.0    38.9 10698.0
GR  46.7 10719.0    49.9 10739.0    54.0 10758.0    56.1 10763.0    65.3 10800.0
GR  67.6 10810.0    68.3 10833.0    86.9 10888.0    87.4 10898.0    92.4 10998.0
GR 112.4 11000.0
X1166.76     51.   10083   10868    1003    1003    1003
X3    10
GR 106.1  9937.0    86.1  9939.0    81.1 10039.0    80.5 10050.0    74.6 10083.0
GR  69.3 10088.0    63.8 10108.0    56.1 10128.0    50.7 10139.0    49.4 10160.0
GR  42.7 10180.0    39.7 10200.0    35.1 10219.0    31.9 10241.0    31.9 10260.0
GR  30.0 10280.0    31.8 10300.0    31.9 10319.0    31.0 10339.0    33.1 10360.0
GR  34.0 10380.0    33.9 10420.0    34.9 10440.0    33.9 10460.0    35.9 10480.0
GR  37.0 10500.0    36.9 10520.0    34.1 10578.0    33.8 10600.0    35.0 10621.0
GR  34.1 10639.0    34.9 10660.0    34.9 10680.0    32.9 10700.0    33.0 10719.0
GR  34.7 10739.0    35.6 10759.0    47.6 10798.0    50.6 10820.0    55.8 10838.0
GR  68.8 10868.0    68.8 10889.0    68.8 10900.0    68.8 10904.0    79.8 10958.0
GR  80.4 10964.0    80.0 10969.0    76.8 10977.0    73.8 11001.0    78.8 11101.0
GR  98.8 11103.0
X1166.95     44.   10027   10916    1003    1003    1003
X3    10
GR 106.7  9916.0    86.7  9918.0    81.7 10018.0    81.7 10027.0    78.2 10045.0
GR  58.6 10100.0    56.3 10103.0    38.9 10160.0    35.9 10180.0    34.9 10200.0
GR  32.1 10218.0    29.9 10238.0    29.0 10261.0    29.0 10279.0    28.1 10299.0
GR  29.8 10318.0    29.1 10339.0    30.0 10357.0    29.9 10377.0    32.0 10397.0
GR  31.1 10419.0    30.9 10438.0    31.9 10458.0    30.9 10477.0    30.9 10519.0
GR  31.9 10538.0    29.0 10559.0    31.8 10578.0    33.7 10618.0    35.7 10637.0
GR  35.7 10699.0    38.6 10756.0    41.5 10778.0    46.4 10798.0    50.5 10819.0
GR  51.8 10841.0    54.5 10857.0    55.6 10868.0    61.1 10898.0    86.0 10916.0
GR  87.8 10940.0    86.7 10996.0    91.7 11096.0   111.7 11098.0
X1167.13     39.   10102   11008     950     950     950
X3    10
GR 108.2  9994.0    88.2  9996.0    83.2 10096.0    83.1 10102.0    67.3 10139.0
GR  60.4 10172.0    56.1 10208.0    49.6 10237.0    41.8 10259.0    34.7 10290.0
GR  26.8 10339.0    25.9 10359.0    25.9 10377.0    27.7 10399.0    26.9 10418.0
GR  29.8 10478.0    30.0 10498.0    31.8 10519.0    32.7 10537.0    32.8 10558.0
GR  31.9 10578.0    31.8 10619.0    30.8 10638.0    28.7 10658.0    28.6 10698.0
GR  29.7 10719.0    34.7 10739.0    36.5 10760.0    42.4 10797.0    47.7 10837.0
GR  53.7 10859.0    56.0 10874.0    59.0 10898.0    69.3 10970.0    78.6 11008.0
GR  80.1 11028.0    81.1 11047.0    86.1 11147.0   106.1 11149.0
X1167.32     35.   10132   10895    1003    1003    1003
X3    10
GR  94.2 10000.0    74.2 10002.0    69.2 10102.0    64.5 10114.0    61.6 10132.0
GR  56.3 10221.0    52.0 10261.0    52.0 10282.0    50.0 10302.0    50.0 10322.0
GR  49.0 10340.0    38.1 10381.0    28.1 10441.0    31.9 10460.0    24.2 10481.0
GR  20.9 10501.0    21.0 10559.0    21.9 10580.0    20.9 10600.0    22.0 10620.0
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GR  21.8 10640.0    24.1 10680.0    22.9 10702.0    22.9 10722.0    23.8 10740.0
GR  25.6 10759.0    30.0 10779.0    45.0 10820.0    51.0 10839.0    56.5 10848.0
GR  62.5 10869.0    78.1 10895.0    80.5 10909.0    85.5 11009.0   105.5 11011.0
X1167.52     42.   10187   10840    1056    1056    1056
X3    10
GR  84.1  9945.0    64.1  9947.0    59.1 10047.0    59.1 10096.0    59.1 10147.0
GR  59.1 10187.0    52.9 10198.0    43.2 10216.0    36.1 10238.0    33.1 10259.0
GR  35.1 10279.0    35.0 10298.0    29.0 10320.0    27.0 10339.0    24.0 10359.0
GR  24.1 10379.0    23.1 10399.0    24.0 10419.0    27.1 10438.0    26.9 10458.0
GR  24.0 10478.0    24.0 10520.0    23.3 10538.0    26.8 10559.0    24.0 10580.0
GR  26.0 10599.0    25.0 10620.0    26.0 10639.0    27.9 10660.0    33.8 10699.0
GR  35.8 10719.0    35.9 10740.0    39.9 10758.0    42.0 10779.0    56.4 10814.0
GR  76.5 10840.0    76.5 10860.0    80.4 10875.0    81.6 10900.0    80.5 10944.0
GR  85.5 11044.0   105.5 11046.0
X1167.70     37.   10161   10799     950     950     950
X3    10
GR  86.4  9930.0    66.4  9932.0    61.4 10032.0    61.4 10049.0    61.4 10080.0
GR  61.4 10104.0    61.4 10127.0    61.4 10135.0    62.3 10149.0    61.4 10161.0
GR  56.3 10165.0    46.0 10199.0    37.7 10221.0    33.9 10242.0    29.9 10280.0
GR  30.0 10300.0    27.9 10321.0    28.0 10361.0    26.0 10400.0    26.1 10500.0
GR  24.1 10521.0    24.1 10539.0    23.1 10559.0    22.9 10600.0    18.0 10619.0
GR  24.1 10640.0    30.1 10659.0    32.2 10679.0    42.4 10699.0    47.2 10719.0
GR  53.5 10738.0    56.9 10744.0    60.9 10762.0    79.6 10799.0    82.5 10828.0
GR  87.5 10928.0   107.5 10930.0
X1167.88     37.   10098   10813     950     950     950
X3    10
GR  84.9  9897.0    64.9  9899.0    59.9  9999.0    62.6 10022.0    62.6 10038.0
GR  60.5 10068.0    59.9 10098.0    55.6 10122.0    51.5 10138.0    50.5 10159.0
GR  52.8 10198.0    54.6 10219.0    50.7 10237.0    47.6 10258.0    37.8 10278.0
GR  31.7 10319.0    27.8 10338.0    26.7 10359.0    26.9 10378.0    25.8 10399.0
GR  25.9 10419.0    24.9 10438.0    24.9 10459.0    22.8 10498.0    22.8 10557.0
GR  20.8 10598.0    18.9 10618.0    22.8 10637.0    26.8 10679.0    31.5 10697.0
GR  45.5 10737.0    56.1 10758.0    70.4 10796.0    79.9 10813.0    80.7 10851.0
GR  85.7 10951.0   105.7 10953.0
X1168.06     38.   10049   10784     950     950     950
X3    10
GR  92.2  9847.0    72.2  9849.0    67.2  9949.0    67.2  9989.0    67.4 10018.0
GR  67.2 10049.0    60.6 10099.0    56.5 10139.0    48.9 10168.0    40.9 10189.0
GR  34.8 10209.0    32.7 10230.0    29.7 10249.0    29.9 10270.0    28.8 10289.0
GR  29.0 10308.0    27.6 10328.0    27.8 10409.0    26.8 10430.0    26.7 10450.0
GR  24.6 10490.0    24.5 10510.0    22.7 10529.0    21.7 10550.0    21.7 10571.0
GR  24.8 10590.0    25.7 10609.0    35.4 10629.0    44.0 10650.0    49.6 10669.0
GR  49.7 10689.0    55.9 10721.0    62.2 10735.0    66.2 10753.0    79.5 10779.0
GR  80.3 10784.0    85.3 10884.0   105.3 10886.0
X1168.21     35.   10043   10738     792     792     792
X3    10
GR  94.2  9819.0    74.2  9821.0    69.2  9921.0    70.6  9947.0    71.9  9970.0
GR  72.5 10001.0    69.2 10043.0    63.9 10061.0    56.4 10096.0    43.6 10145.0
GR  33.7 10181.0    27.7 10221.0    24.6 10281.0    24.7 10320.0    22.6 10361.0
GR  27.7 10380.0    28.7 10401.0    28.6 10420.0    27.4 10441.0    25.6 10460.0
GR  24.6 10479.0    26.6 10519.0    26.6 10540.0    30.4 10579.0    34.3 10599.0
GR  40.6 10618.0    44.8 10638.0    50.8 10659.0    56.2 10671.0    70.3 10713.0
GR  79.0 10728.0    79.7 10738.0    79.8 10766.0    84.8 10866.0   104.8 10868.0
X1168.44     48.   10100   10860    1214    1214    1214
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X3    10
GR  92.3  9898.0    72.3  9900.0    67.3 10000.0    71.0 10024.0    71.4 10039.0
GR  70.9 10049.0    66.9 10079.0    66.9 10089.0    66.9 10100.0    61.3 10121.0
GR  58.1 10151.0    56.5 10198.0    55.6 10201.0    55.6 10220.0    53.7 10241.0
GR  49.7 10261.0    42.6 10281.0    38.8 10301.0    35.1 10319.0    34.7 10341.0
GR  32.0 10360.0    35.0 10380.0    36.9 10400.0    35.8 10420.0    35.8 10440.0
GR  33.9 10482.0    33.8 10501.0    32.6 10520.0    29.0 10540.0    26.8 10560.0
GR  29.7 10579.0    30.9 10600.0    28.8 10641.0    29.8 10660.0    28.6 10682.0
GR  28.8 10701.0    30.5 10720.0    34.8 10740.0    36.6 10760.0    44.8 10779.0
GR  46.8 10800.0    56.4 10810.0    59.6 10828.0    62.1 10849.0    65.1 10860.0
GR  68.8 10898.0    73.8 10998.0    93.8 11000.0
X1168.62     36.   10110   10815     950     950     950
X3    10
GR  97.9  9927.0    77.9  9929.0    72.9 10029.0    72.2 10070.0    70.5 10099.0
GR  69.3 10110.0    67.2 10120.0    58.5 10200.0    56.2 10229.0    43.8 10239.0
GR  43.5 10260.0    42.5 10280.0    36.6 10299.0    32.7 10320.0    30.7 10360.0
GR  28.7 10380.0    22.5 10500.0    22.5 10540.0    21.5 10560.0    21.5 10580.0
GR  22.6 10600.0    20.5 10620.0    19.5 10642.0    21.6 10661.0    24.3 10679.0
GR  29.6 10699.0    38.2 10719.0    53.0 10738.0    56.3 10750.0    63.8 10765.0
GR  72.8 10799.0    79.9 10815.0    80.8 10830.0    84.3 10838.0    89.3 10938.0
GR 109.3 10940.0
X1168.80     42.   10102   10740     950     950     950
X3    10
GR  87.6  9902.0    67.6  9904.0    62.6 10004.0    61.2 10043.0    61.2 10073.0
GR  61.7 10093.0    61.2 10102.0    59.5 10123.0    57.1 10134.0    57.8 10140.0
GR  57.5 10157.0    56.8 10168.0    43.0 10182.0    42.9 10222.0    33.9 10242.0
GR  29.7 10263.0    24.7 10283.0    21.7 10303.0    22.0 10322.0    19.9 10364.0
GR  17.8 10381.0    16.9 10403.0    12.7 10443.0     8.8 10462.0     9.6 10481.0
GR  11.9 10502.0    12.9 10521.0    14.8 10542.0    17.6 10561.0    22.0 10582.0
GR  28.7 10602.0    34.7 10622.0    38.8 10642.0    50.7 10681.0    56.4 10692.0
GR  64.4 10700.0    70.5 10719.0    81.4 10740.0    82.5 10754.0    85.8 10762.0
GR  90.8 10862.0   110.8 10864.0
X1168.97     34. 10097.5 10661.2     897     897     897
X3    10
GR  99.0  9897.1    79.0  9899.1    74.0  9999.1    73.9 10037.9    71.5 10097.5
GR  64.8 10119.3    61.7 10128.7    56.9 10138.1    44.3 10159.9    44.2 10178.8
GR  39.2 10197.6    30.1 10218.9    31.0 10237.8    29.9 10259.2    23.8 10298.4
GR  20.1 10318.7    17.0 10338.1    17.1 10358.0    18.1 10378.3    22.0 10417.6
GR  24.9 10437.5    30.0 10458.0    33.8 10476.4    37.9 10557.9    40.6 10577.3
GR  50.8 10596.8    56.9 10610.2    63.7 10620.2    69.3 10637.2    80.3 10661.2
GR  82.5 10689.5    86.3 10700.9    91.3 10800.9   111.3 10802.9
X1169.38     36.   10108   10599    2164    2164    2164
X3    10
GR 102.7  9896.0    82.7  9898.0    77.7  9998.0    73.6 10028.0    70.6 10058.0
GR  69.6 10098.0    68.7 10108.0    66.0 10118.0    61.1 10129.0    56.9 10134.0
GR  56.1 10139.0    47.1 10159.0    42.1 10180.0    39.1 10198.0    27.2 10219.0
GR  24.3 10239.0    15.1 10259.0    16.1 10280.0    11.0 10300.0     9.1 10319.0
GR  13.2 10359.0    16.2 10380.0    22.1 10440.0    26.2 10459.0    27.1 10479.0
GR  30.3 10500.0    40.3 10539.0    51.2 10559.0    55.2 10580.0    61.9 10599.0
GR  62.8 10607.0    61.9 10629.0    64.9 10678.0    67.0 10698.0    72.0 13698.0
GR  92.0 13700.0
X1169.59     42. 10107.5 10702.0    1108    1108    1108
X3    10
GR 105.8  9858.3    85.8  9860.3    80.8  9960.3    77.5  9972.9    74.4  9999.4
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Subsegment 080101
Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

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GR  71.4 10015.9    69.8 10048.3    69.8 10098.6    70.0 10106.5    69.8 10107.5
GR  64.9 10138.6    54.0 10159.9    50.0 10179.5    41.9 10200.7    33.9 10220.0
GR  28.9 10239.6    24.1 10260.2    21.0 10280.2    19.0 10300.7     8.9 10320.5
GR   6.0 10340.5     5.0 10360.5     5.1 10400.8     7.0 10422.1     6.0 10441.5
GR   8.0 10461.4    17.6 10499.3    24.0 10520.4    32.9 10540.4    38.0 10560.6
GR  37.9 10581.0    36.8 10600.0    38.9 10619.8    42.0 10641.5    49.5 10661.1
GR  55.0 10679.3    57.2 10680.2    71.1 10702.0    71.1 10748.8    71.1 10799.5
GR  76.1 13799.5    96.1 13801.5
X1169.80     47.   10060   10977    1108    1108    1108
X3    10
GR  87.6  9908.0    67.6  9910.0    62.6 10010.0    62.6 10060.0    59.7 10081.0
GR  58.4 10100.0    57.1 10105.0    52.1 10140.0    52.0 10160.0    53.1 10181.0
GR  51.1 10220.0    49.0 10240.0    46.1 10260.0    46.1 10279.0    43.9 10320.0
GR  45.1 10337.0    45.0 10359.0    44.1 10380.0    44.0 10420.0    42.1 10439.0
GR  36.5 10462.0    29.0 10499.0    26.2 10518.0    24.1 10538.0    24.1 10581.0
GR  22.9 10598.0    23.1 10620.0    21.9 10638.0    22.1 10661.0    22.9 10679.0
GR  22.9 10720.0    21.9 10739.0    21.9 10779.0    23.0 10798.0    23.0 10859.0
GR  25.0 10880.0    30.9 10900.0    53.9 10940.0    60.2 10960.0    68.1 10968.0
GR  71.0 10977.0    71.7 11000.0    71.3 11029.0    73.1 11050.0    73.3 11070.0
GR  78.3 14070.0    98.3 14072.0
X1170.00     50.   10035   10999    1056    1056    1056
X3    10
GR  88.9  9862.0    68.9  9864.0    63.9  9964.0    63.9  9999.0    63.9 10035.0
GR  57.0 10087.0    56.0 10100.0    54.9 10119.0    56.0 10139.0    56.0 10178.0
GR  53.8 10199.0    41.8 10239.0    39.9 10260.0    39.0 10280.0    35.9 10300.0
GR  34.9 10320.0    35.0 10340.0    36.0 10360.0    41.1 10380.0    49.0 10399.0
GR  53.1 10419.0    53.0 10459.0    46.0 10479.0    37.9 10500.0    36.2 10520.0
GR  32.9 10540.0    31.9 10560.0    32.0 10600.0    30.8 10620.0    30.9 10640.0
GR  29.8 10661.0    25.8 10700.0    22.8 10720.0    18.8 10741.0    13.7 10762.0
GR  11.8 10781.0    16.9 10800.0    18.9 10841.0    18.9 10862.0    23.0 10880.0
GR  30.0 10900.0    41.9 10919.0    51.9 10939.0    57.0 10954.0    63.0 10980.0
GR  71.0 10999.0    71.8 11039.0    71.0 11099.0    76.0 14099.0    96.0 14101.0
X1170.20     33.   10099   10694    1056    1056    1056
X3    10
GR  90.5  9897.0    70.5  9899.0    65.5  9999.0    62.4 10049.0    63.4 10080.0
GR  61.3 10099.0    57.0 10115.0    51.9 10140.0    46.1 10159.0    41.0 10201.0
GR  37.9 10261.0    40.0 10279.0    35.9 10360.0    32.9 10380.0    27.9 10400.0
GR  19.9 10440.0    15.9 10460.0    14.0 10500.0    19.0 10520.0    25.0 10560.0
GR  24.9 10580.0    25.8 10601.0    43.9 10620.0    41.0 10640.0    57.1 10671.0
GR  75.6 10694.0    75.6 10698.0    76.8 10728.0    82.6 10744.0    79.7 10757.0
GR  81.2 10798.0    86.2 13798.0   106.2 13800.0
X1170.58     39. 10024.1 10811.8    2006    2006    2006
X3    10
GR  99.0  9823.2    79.0  9825.2    74.0  9925.2    74.0  9969.6    74.0  9988.9
GR  74.0 10024.1    74.0 10024.2    55.1 10059.2    51.0 10079.6    43.0 10099.0
GR  39.1 10119.4    36.9 10140.0    34.9 10180.5    35.0 10199.9    34.0 10219.9
GR  31.9 10240.5    32.0 10280.3    32.9 10300.5    33.0 10339.8    30.1 10360.0
GR  30.1 10399.8    30.9 10419.6    31.1 10460.3    29.9 10479.3    30.0 10501.2
GR  29.0 10519.7    30.9 10559.7    31.0 10599.9    33.0 10639.5    41.0 10679.7
GR  46.9 10697.9    50.8 10738.1    57.5 10811.8    57.5 10826.4    57.5 10889.0
GR  63.3 10922.9    67.3 10948.8    72.3 13948.8    92.3 13950.8
X1170.96     32.   10082   10594    2006    2006    2006
X3    10
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Subsegment 080101
Originated: January 31, 2002
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```
GR  89.9  9918.0    69.9  9920.0    64.9 10020.0    64.0 10050.0    63.9 10082.0
GR  62.1 10102.0    56.9 10129.0    56.8 10141.0    55.7 10160.0    52.9 10180.0
GR  45.9 10199.0    37.1 10220.0    23.1 10259.0    15.1 10300.0    10.3 10319.0
GR   8.3 10339.0    11.2 10361.0    10.0 10382.0     6.1 10419.0     7.0 10440.0
GR   7.2 10460.0    12.8 10479.0    30.2 10500.0    33.7 10518.0    36.9 10540.0
GR  48.8 10559.0    56.7 10578.0    67.0 10594.0    67.0 10649.0    67.0 10698.0
GR  72.0 13698.0    92.0 13700.0
X1171.40     40.   10179   10841    2323    2323    2323
X3    10
GR 100.3  9933.0    80.3  9935.0    75.3 10035.0    75.1 10063.0    66.8 10130.0
GR  63.0 10179.0    56.7 10189.0    48.6 10200.0    37.6 10220.0    27.7 10240.0
GR  20.7 10260.0    15.8 10280.0    11.8 10321.0    12.9 10340.0    14.9 10359.0
GR  17.7 10380.0    18.9 10400.0    20.6 10435.0    20.9 10460.0    22.9 10480.0
GR  23.9 10500.0    25.7 10521.0    26.6 10542.0    29.6 10561.0    30.7 10580.0
GR  33.7 10600.0    35.7 10621.0    36.6 10641.0    39.6 10660.0    49.4 10700.0
GR  49.3 10721.0    51.3 10741.0    53.6 10753.0    53.7 10760.0    58.5 10801.0
GR  64.4 10841.0    66.1 10860.0    70.8 10926.0    75.8 13926.0    95.8 13928.0
X1171.60     35.   10099   10676    1056    1056    1056
X3    10
GR  89.4  9949.0    69.4  9951.0    64.4 10051.0    64.4 10099.0    60.2 10121.0
GR  58.2 10128.0    54.5 10151.0    52.9 10159.0    51.9 10180.0    50.1 10198.0
GR  40.7 10219.0    33.0 10238.0    27.7 10259.0    24.1 10278.0    22.0 10299.0
GR  21.9 10320.0    21.1 10339.0    23.0 10381.0    23.0 10399.0    20.1 10420.0
GR  18.0 10458.0    18.1 10499.0    21.1 10518.0    21.1 10538.0    24.9 10558.0
GR  32.1 10577.0    38.1 10598.0    49.8 10619.0    54.1 10637.0    65.3 10663.0
GR  72.5 10676.0    72.7 10697.0    72.5 10747.0    77.5 13747.0    97.5 13749.0
X1171.80     29.   10194   10649    1056    1056    1056
X3    10
GR  84.8  9957.0    64.8  9959.0    59.8 10059.0    58.5 10111.0    55.9 10127.0
GR  55.9 10160.0    55.9 10181.0    55.9 10194.0    53.9 10203.0    51.5 10220.0
GR  38.6 10260.0    31.6 10301.0    28.8 10319.0    27.6 10341.0    24.9 10360.0
GR  22.9 10398.0    18.8 10439.0    16.8 10480.0    16.7 10501.0    17.8 10519.0
GR  21.8 10540.0    29.7 10560.0    33.8 10580.0    53.6 10626.0    72.9 10649.0
GR  73.0 10699.0    72.9 10746.0    77.9 13746.0    97.9 13748.0
X1172.00     27.   10158   10661    1056    1056    1056
X3    10
GR  92.4  9957.0    72.4  9959.0    67.4 10059.0    69.7 10079.0    68.3 10108.0
GR  64.2 10115.0    63.0 10122.0    62.3 10143.0    62.3 10158.0    49.9 10199.0
GR  41.0 10219.0    37.0 10239.0    32.0 10260.0    28.1 10299.0    24.1 10379.0
GR  24.1 10399.0    23.1 10419.0    23.1 10499.0    25.1 10538.0    40.2 10577.0
GR  53.0 10619.0    59.3 10628.0    66.6 10661.0    67.5 10699.0    67.7 10747.0
GR  72.7 13747.0    92.7 13749.0
X1172.20     27.   10142   10651    1056    1056    1056
X3    10
GR  95.4  9949.0    75.4  9951.0    70.4 10051.0    70.2 10075.0    67.2 10101.0
GR  63.1 10120.0    61.0 10142.0    52.5 10161.0    37.1 10200.0    32.9 10222.0
GR  30.0 10240.0    25.1 10259.0    25.9 10280.0    26.1 10300.0    29.2 10320.0
GR  26.1 10380.0    26.0 10458.0    28.1 10499.0    28.0 10520.0    32.0 10560.0
GR  36.0 10579.0    54.7 10618.0    63.9 10632.0    66.0 10639.0    71.9 10651.0
GR  76.9 13651.0    96.9 13653.0
X1172.40     31.   10133   10640    1056    1056    1056
X3    10
GR  92.8  9932.0    72.8  9934.0    67.8 10034.0    71.7 10066.0    71.5 10090.0
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GR  67.4 10103.0    64.4 10133.0    57.5 10142.0    54.3 10152.0    51.9 10169.0
GR  40.0 10188.0    36.0 10208.0    36.0 10228.0    30.1 10270.0    29.9 10288.0
GR  25.7 10369.0    25.9 10409.0    27.9 10429.0    28.9 10448.0    29.1 10489.0
GR  34.8 10526.0    35.9 10548.0    47.1 10567.0    54.4 10606.0    58.7 10619.0
GR  61.8 10627.0    67.5 10640.0    68.3 10646.0    68.8 10697.0    73.8 13697.0
GR  93.8 13699.0
X1172.50     25.   10085   10656     528     528     528
X3    10
GR  91.8  9983.0    71.8  9985.0    66.8 10085.0    62.4 10110.0    53.7 10137.0
GR  51.4 10141.0    37.7 10181.0    32.7 10200.0    32.6 10222.0    30.8 10239.0
GR  30.6 10400.0    29.6 10420.0    29.7 10459.0    30.6 10480.0    30.9 10500.0
GR  32.8 10520.0    33.5 10541.0    39.4 10580.0    43.8 10601.0    64.3 10641.0
GR  73.3 10656.0    73.5 10700.0    73.3 10749.0    78.3 13749.0    98.3 13751.0
X1172.70     24.   10083   10654    1056    1056    1056
X3    10
GR  92.5  9981.0    72.5  9983.0    67.5 10083.0    62.8 10110.0    58.9 10139.0
GR  54.3 10162.0    51.9 10179.0    40.0 10198.0    32.9 10218.0    31.8 10239.0
GR  31.9 10279.0    29.0 10339.0    28.8 10379.0    29.9 10439.0    30.9 10458.0
GR  32.9 10499.0    44.0 10578.0    52.3 10599.0    54.3 10609.0    65.0 10640.0
GR  74.5 10654.0    74.5 10748.0    79.5 13748.0    99.5 13750.0
X1172.90     33.   10136   10679    1056    1056    1056
X3    10
GR  90.6  9931.0    70.6  9933.0    65.6 10033.0    61.7 10103.0    61.7 10128.0
GR  61.7 10136.0    54.5 10143.0    44.9 10180.0    29.8 10219.0    27.5 10240.0
GR  24.9 10261.0    23.8 10281.0    23.8 10301.0    20.8 10319.0    20.8 10339.0
GR  19.6 10360.0    20.5 10379.0    20.8 10399.0    24.9 10441.0    25.6 10460.0
GR  25.7 10480.0    28.7 10502.0    30.6 10519.0    32.0 10540.0    35.9 10560.0
GR  46.2 10600.0    52.1 10620.0    54.6 10621.0    63.6 10649.0    77.4 10679.0
GR  77.6 10750.0    82.6 13750.0   102.6 13752.0
X1173.10     40. 10104.8 10742.7    1056    1056    1056
X3    10
GR  89.3  9928.8    69.3  9930.8    64.3 10030.8    64.3 10061.6    64.3 10081.9
GR  64.4 10090.0    64.3 10104.8    54.5 10116.7    51.6 10129.9    43.3 10149.7
GR  35.7 10169.1    31.7 10189.7    29.7 10208.9    25.9 10229.5    23.8 10249.2
GR  22.8 10269.4    21.9 10308.5    22.8 10327.9    22.8 10349.2    26.8 10367.8
GR  27.9 10388.7    27.8 10409.0    26.0 10428.2    26.9 10449.1    28.8 10468.0
GR  29.7 10487.4    29.6 10530.5    28.8 10547.3    31.7 10588.6    34.6 10606.1
GR  40.8 10627.3    51.5 10648.3    62.2 10700.9    73.2 10742.7    73.5 10760.0
GR  75.2 10769.6    75.7 10948.5    75.5 10949.0    80.5 13949.0   100.5 13951.0
X1174.60     28.   10102   10677    7920    7920    7920
X3    10
GR  85.3  9945.0    65.3  9947.0    60.3 10047.0    61.3 10076.0    59.8 10102.0
GR  56.6 10128.0    52.5 10140.0    40.6 10201.0    35.4 10241.0    34.6 10261.0
GR  32.5 10280.0    28.6 10361.0    24.5 10380.0    24.7 10421.0    21.6 10479.0
GR  21.8 10501.0    24.6 10520.0    24.6 10542.0    26.7 10561.0    33.8 10581.0
GR  43.9 10602.0    54.3 10635.0    60.5 10657.0    69.2 10677.0    73.6 10702.0
GR  75.0 10751.0    80.0 13751.0   100.0 13753.0
X1174.80     32.   10097   10554    1056    1056    1056
X3    10
GR  84.5  9919.0    64.5  9921.0    59.5 10021.0    59.5 10064.0    60.6 10086.0
GR  59.5 10097.0    54.3 10124.0    51.6 10131.0    48.0 10150.0    41.0 10171.0
GR  33.9 10191.0    30.9 10211.0    29.9 10231.0    26.8 10251.0    24.9 10271.0
GR  18.7 10312.0    14.8 10331.0    10.6 10372.0    14.6 10393.0    13.9 10412.0
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GR  13.8 10432.0    19.8 10451.0    27.5 10472.0    54.5 10506.0    59.2 10514.0
GR  61.8 10523.0    65.2 10535.0    69.7 10543.0    72.1 10554.0    74.2 10652.0
GR  79.2 13652.0    99.2 13654.0
X1174.90     30.   10109   10649     528     528     528
X3    10
GR  90.4  9936.0    70.4  9938.0    65.4 10038.0    68.0 10079.0    67.8 10083.0
GR  63.5 10109.0    57.4 10124.0    52.9 10130.0    40.5 10170.0    33.2 10209.0
GR  31.3 10250.0    30.2 10269.0    30.3 10290.0    25.1 10389.0    22.1 10411.0
GR  20.1 10450.0    18.2 10468.0    18.0 10488.0    20.2 10510.0    23.1 10526.0
GR  40.3 10550.0    40.2 10568.0    49.8 10590.0    53.2 10610.0    55.9 10623.0
GR  61.7 10633.0    65.7 10649.0    65.7 10699.0    70.7 13699.0    90.7 13701.0
X1175.60     35.   10071   10610    3696    3696    3696
X3    10
GR  87.1  9920.0    67.1  9922.0    62.1 10022.0    62.1 10049.0    62.1 10071.0
GR  56.8 10093.0    52.5 10109.0    47.6 10128.0    40.8 10148.0    36.0 10168.0
GR  34.8 10188.0    34.8 10207.0    32.8 10228.0    32.8 10287.0    30.9 10327.0
GR  28.7 10347.0    28.7 10367.0    27.7 10388.0    27.8 10408.0    26.8 10428.0
GR  26.7 10447.0    24.8 10488.0    25.0 10509.0    34.7 10527.0    35.7 10548.0
GR  45.5 10567.0    57.3 10604.0    61.6 10610.0    61.6 10618.0    61.6 10647.0
GR  62.2 10670.0    62.4 10697.0    61.6 10717.0    66.6 13717.0    86.6 13719.0
X1175.80     27.   10151   10625    1056    1056    1056
X3    10
GR  87.3  9946.0    67.3  9948.0    62.3 10048.0    63.9 10101.0    64.7 10136.0
GR  62.3 10151.0    57.8 10163.0    52.5 10181.0    43.1 10203.0    31.1 10240.0
GR  30.9 10261.0    29.2 10300.0    28.8 10381.0    26.8 10399.0    26.0 10440.0
GR  26.0 10462.0    24.1 10481.0    29.2 10541.0    48.2 10581.0    52.0 10599.0
GR  58.0 10614.0    65.4 10625.0    65.8 10629.0    65.4 10671.0    65.4 10730.0
GR  70.4 13730.0    90.4 13732.0
X1176.00     35.   10111   10649    1056    1056    1056
X3    10
GR 105.9  9922.0    85.9  9924.0    80.9 10024.0    72.7 10048.0    65.6 10089.0
GR  63.3 10111.0    63.1 10115.0    57.6 10122.0    54.2 10128.0    52.1 10148.0
GR  42.7 10170.0    37.9 10190.0    34.2 10209.0    28.0 10249.0    24.0 10290.0
GR  22.0 10331.0    22.1 10350.0    20.9 10371.0    21.1 10391.0    23.0 10411.0
GR  23.0 10431.0    24.0 10450.0    28.0 10471.0    29.1 10491.0    31.0 10509.0
GR  36.0 10529.0    50.9 10547.0    57.1 10590.0    57.8 10593.0    63.6 10649.0
GR  63.6 10672.0    63.6 10702.0    67.5 10749.0    72.5 13749.0    92.5 13751.0
X1176.20     28.   10149   10649    1056    1056    1056
X3    10
GR  99.7  9947.0    79.7  9949.0    74.7 10049.0    74.4 10099.0    73.6 10149.0
GR  58.6 10197.0    52.8 10209.0    41.7 10230.0    33.1 10251.0    27.1 10291.0
GR  21.2 10350.0    23.1 10371.0    23.2 10390.0    24.5 10412.0    28.1 10449.0
GR  28.1 10469.0    30.4 10490.0    35.4 10530.0    36.7 10551.0    46.9 10590.0
GR  52.9 10608.0    56.0 10629.0    62.0 10649.0    62.0 10689.0    65.7 10717.0
GR  67.7 10747.0    72.7 13747.0    92.7 13749.0
X1176.80     41.   10039   10785    3168    3168    3168
X3    10
GR  85.6  9836.0    65.6  9838.0    60.6  9938.0    60.6  9958.0    60.6  9998.0
GR  60.9 10021.0    60.6 10039.0    57.7 10047.0    51.1 10078.0    50.0 10099.0
GR  50.2 10178.0    48.0 10218.0    48.1 10237.0    50.0 10257.0    51.1 10277.0
GR  49.1 10298.0    36.9 10340.0    34.0 10358.0    33.0 10378.0    33.1 10438.0
GR  31.9 10458.0    32.0 10478.0    33.9 10498.0    34.1 10519.0    32.0 10558.0
GR  30.2 10579.0    29.6 10639.0    29.0 10660.0    26.2 10679.0    25.9 10700.0
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GR  33.1 10718.0    34.0 10738.0    41.7 10759.0    53.1 10779.0    57.9 10785.0
GR  62.6 10798.0    61.4 10828.0    61.4 10857.0    68.1 10898.0    73.1 13898.0
GR  93.1 13900.0
X1177.20     29.   10061   10689    2112    2112    2112
X3    10
GR  85.9  9898.0    65.9  9900.0    60.9 10000.0    59.8 10061.0    54.5 10159.0
GR  50.1 10179.0    44.9 10199.0    41.9 10221.0    38.0 10261.0    36.9 10282.0
GR  35.1 10300.0    34.1 10319.0    30.0 10359.0    28.0 10399.0    28.0 10459.0
GR  27.3 10480.0    26.9 10520.0    29.0 10539.0    30.0 10557.0    33.9 10579.0
GR  33.9 10599.0    36.8 10620.0    46.8 10659.0    54.3 10676.0    68.6 10689.0
GR  68.6 10739.0    68.6 10799.0    73.6 13799.0    93.6 13801.0
X1177.40     27.   10242   10712    1056    1056    1056
X3    10
GR  90.5 10056.0    70.5 10058.0    65.5 10158.0    62.2 10217.0    61.4 10242.0
GR  59.0 10277.0    54.7 10296.0    53.4 10298.0    28.2 10399.0    25.2 10419.0
GR  23.2 10438.0    20.1 10459.0    18.1 10479.0    10.1 10499.0    10.1 10559.0
GR  11.2 10580.0    15.9 10599.0    22.8 10618.0    40.9 10638.0    52.1 10659.0
GR  54.6 10665.0    63.7 10686.0    68.2 10699.0    77.5 10712.0    77.7 10798.0
GR  82.7 13798.0   102.7 13800.0
X1177.60     28.   10172   10677    1056    1056    1056
X3    10
GR  92.6 10007.0    72.6 10009.0    67.6 10109.0    67.6 10172.0    61.3 10200.0
GR  48.0 10249.0    44.1 10269.0    39.1 10289.0    37.1 10310.0    36.3 10329.0
GR  34.0 10349.0    31.2 10369.0    29.0 10389.0    26.0 10409.0    24.0 10429.0
GR  13.0 10489.0    11.1 10509.0    11.1 10550.0    11.8 10570.0    14.7 10589.0
GR  22.9 10609.0    47.9 10629.0    62.2 10656.0    65.5 10659.0    73.7 10677.0
GR  73.7 10749.0    78.7 13749.0    98.7 13751.0
X1178.20     29.   10165   10703    3168    3168    3168
X3    10
GR 102.8  9926.0    82.8  9928.0    77.8 10028.0    68.8 10067.0    64.7 10115.0
GR  63.7 10165.0    54.6 10179.0    49.0 10197.0    44.2 10217.0    34.1 10238.0
GR  34.2 10337.0    35.0 10357.0    35.2 10398.0    34.0 10418.0    34.1 10438.0
GR  33.1 10458.0    33.2 10477.0    35.1 10517.0    33.9 10538.0    35.1 10557.0
GR  40.0 10577.0    43.2 10598.0    52.8 10617.0    54.4 10622.0    65.8 10678.0
GR  68.8 10703.0    68.8 10749.0    73.8 13749.0    93.8 13751.0
X1178.40     29.   10199   10676    1056    1056    1056
X3    10
GR  90.7 10029.0    70.7 10031.0    65.7 10131.0    65.7 10170.0    65.7 10199.0
GR  63.4 10207.0    54.6 10222.0    51.1 10240.0    40.8 10260.0    35.0 10280.0
GR  34.1 10298.0    34.0 10340.0    32.9 10359.0    32.8 10379.0    33.9 10400.0
GR  34.1 10480.0    35.1 10500.0    35.1 10520.0    33.1 10560.0    32.9 10600.0
GR  51.9 10641.0    54.3 10648.0    61.0 10672.0    63.7 10676.0    64.8 10705.0
GR  70.5 10748.0    69.2 10800.0    74.2 13800.0    94.2 13802.0
X1178.70     38.    9969   10861    1584    1584    1584
X3    10
GR  77.7  9867.0    57.7  9869.0    52.7  9969.0    51.6  9989.0    49.9 10010.0
GR  48.7 10029.0    47.0 10049.0    47.0 10070.0    46.2 10090.0    46.3 10250.0
GR  47.0 10270.0    45.0 10289.0    44.0 10308.0    44.0 10349.0    43.2 10369.0
GR  40.0 10389.0    37.0 10409.0    36.0 10429.0    32.1 10450.0    30.0 10488.0
GR  30.0 10510.0    31.9 10549.0    31.1 10569.0    31.2 10609.0    30.2 10630.0
GR  32.1 10672.0    31.9 10729.0    30.9 10751.0    38.0 10769.0    35.2 10789.0
GR  44.1 10809.0    46.1 10831.0    58.3 10849.0    69.7 10861.0    70.2 10871.0
GR  69.7 10950.0    74.7 13950.0    94.7 13952.0
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X1178.80     30.   10144   10733     528     528     528
X3    10
GR  84.9 10015.0    64.9 10017.0    59.9 10117.0    59.3 10144.0    54.3 10188.0
GR  51.7 10207.0    50.8 10228.0    46.7 10248.0    44.6 10271.0    42.8 10306.0
GR  38.9 10326.0    41.8 10346.0    38.8 10367.0    34.8 10406.0    31.9 10468.0
GR  30.0 10487.0    30.0 10527.0    31.0 10547.0    30.8 10587.0    28.8 10607.0
GR  29.8 10627.0    34.6 10647.0    37.9 10666.0    44.1 10687.0    54.0 10707.0
GR  70.4 10733.0    70.4 10798.0    70.4 10848.0    75.4 13848.0    95.4 13850.0
X1180.10     38.   10039   10651    6864    6864    6864
X3    10
GR  93.1  9877.0    73.1  9879.0    68.1  9979.0    68.8 10007.0    68.1 10039.0
GR  63.6 10047.0    58.5 10069.0    54.5 10088.0    52.0 10098.0    40.0 10119.0
GR  32.0 10138.0    29.6 10178.0    29.8 10219.0    34.1 10300.0    34.1 10339.0
GR  36.9 10399.0    36.1 10418.0    36.0 10479.0    35.0 10499.0    36.1 10520.0
GR  38.2 10539.0    42.1 10559.0    53.4 10580.0    54.8 10589.0    63.0 10604.0
GR  67.7 10651.0    67.7 10715.0    67.7 10756.0    67.7 10816.0    67.7 10858.0
GR  69.5 10904.0    71.2 10939.0    75.3 10959.0    76.2 10980.0    78.0 10988.0
GR  78.6 11049.0    83.6 14049.0   103.6 14051.0
NC  .040    .040    .025      .1      .3
X1180.30     42.   10103   10683    1056    1056    1056
X3    10
GR  96.8  9804.0    76.8  9806.0    71.8  9906.0    70.7  9958.0    69.6  9993.0
GR  69.8 10007.0    67.7 10027.0    67.9 10042.0    64.7 10062.0    63.3 10103.0
GR  59.4 10128.0    52.9 10138.0    41.2 10178.0    37.2 10199.0    35.0 10218.0
GR  31.1 10239.0    28.3 10260.0    26.2 10279.0    26.2 10299.0    27.0 10319.0
GR  29.2 10339.0    31.2 10379.0    31.2 10419.0    34.2 10479.0    34.1 10499.0
GR  35.2 10518.0    35.3 10559.0    37.2 10579.0    40.4 10598.0    49.4 10619.0
GR  53.3 10639.0    57.9 10649.0    64.0 10683.0    64.0 10699.0    65.8 10754.0
GR  65.8 10799.0    67.3 10836.0    71.0 10860.0    78.9 10895.0    78.2 11000.0
GR  83.2 14000.0   103.2 14002.0
X1180.54     50.   10209   10842    1267    1267    1267
X3    10
GR  98.0  9549.0    78.0  9551.0    73.0  9651.0    77.0  9751.0    76.4  9760.0
GR  71.4  9785.0    68.2  9810.0    64.4  9884.0    62.6  9911.0    62.6  9930.0
GR  62.6  9952.0    62.6  9973.0    62.6  9992.0    62.6 10033.0    62.6 10056.0
GR  62.6 10111.0    62.6 10152.0    62.6 10171.0    62.6 10189.0    62.6 10201.0
GR  62.6 10209.0    58.4 10266.0    57.0 10271.0    56.0 10291.0    53.1 10311.0
GR  48.8 10332.0    39.9 10352.0    35.8 10373.0    29.8 10433.0    30.0 10531.0
GR  28.0 10552.0    24.9 10572.0    27.1 10592.0    30.1 10612.0    28.0 10632.0
GR  30.0 10651.0    31.2 10673.0    36.3 10693.0    37.2 10714.0    42.9 10731.0
GR  52.2 10752.0    63.5 10782.0    65.7 10793.0    67.2 10811.0    72.4 10830.0
GR  74.7 10842.0    75.0 10852.0    75.6 10903.0    80.6 13903.0   100.6 13905.0
X1180.73     30.   10133   10722    1003    1003    1003
X3    10
GR  89.4 10005.0    69.4 10007.0    64.4 10107.0    64.4 10133.0    63.0 10148.0
GR  57.5 10184.0    56.3 10188.0    54.5 10208.0    54.4 10229.0    56.5 10249.0
GR  57.4 10269.0    52.6 10289.0    38.6 10328.0    35.6 10368.0    32.5 10429.0
GR  32.4 10449.0    30.4 10491.0    27.7 10510.0    27.6 10570.0    26.6 10590.0
GR  26.6 10609.0    28.5 10630.0    32.4 10650.0    57.4 10706.0    64.4 10711.0
GR  68.2 10719.0    73.4 10722.0    73.4 10852.0    78.4 13852.0    98.4 13854.0
X1183.97     37.   10361   10994   17107   17107   17107
X3    10
GR 106.7 10147.0    86.7 10149.0    81.7 10249.0    80.0 10298.0    76.3 10361.0
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GR  72.8 10374.0    56.0 10439.0    52.9 10458.0    42.9 10478.0    36.8 10499.0
GR  35.8 10519.0    35.9 10538.0    38.1 10558.0    38.0 10577.0    37.0 10598.0
GR  37.0 10619.0    35.9 10639.0    36.0 10658.0    34.8 10678.0    35.0 10739.0
GR  33.9 10759.0    34.0 10798.0    34.8 10818.0    34.0 10839.0    34.7 10859.0
GR  36.9 10879.0    38.0 10898.0    48.1 10937.0    55.0 10959.0    57.8 10964.0
GR  61.8 10981.0    69.7 10994.0    70.5 11000.0    69.7 11049.0    69.7 11100.0
GR  74.7 14100.0    94.7 14102.0
X1184.06     48.   10168   11035     475     475     475
X3    10
GR 104.3  9995.0    84.3  9997.0    79.3 10097.0    79.2 10146.0    79.2 10168.0
GR  73.4 10187.0    64.7 10209.0    59.7 10224.0    57.3 10247.0    56.6 10268.0
GR  54.8 10288.0    53.6 10308.0    53.8 10348.0    54.8 10367.0    53.8 10388.0
GR  50.5 10408.0    42.7 10428.0    37.8 10448.0    31.7 10489.0    31.5 10509.0
GR  32.8 10527.0    30.7 10568.0    30.7 10629.0    32.8 10668.0    36.8 10689.0
GR  38.6 10707.0    39.5 10729.0    41.7 10750.0    41.6 10770.0    43.6 10809.0
GR  49.6 10828.0    51.6 10849.0    51.7 10869.0    47.8 10890.0    44.9 10910.0
GR  44.8 10929.0    45.9 10951.0    49.9 10969.0    55.9 10989.0    57.3 10991.0
GR  63.3 11014.0    67.1 11028.0    71.3 11035.0    71.3 11049.0    72.4 11098.0
GR  71.3 11149.0    76.3 14149.0    96.3 14151.0
X1184.90     53.   10034   11177    4434    4434    4434
X3    10
GR  92.5  9826.0    72.5  9828.0    67.5  9928.0    67.5  9998.0    67.5 10034.0
GR  62.8 10042.0    57.5 10050.0    50.9 10070.0    46.0 10091.0    41.0 10111.0
GR  37.9 10129.0    36.9 10150.0    36.7 10170.0    35.8 10189.0    36.1 10270.0
GR  35.0 10290.0    34.8 10309.0    36.7 10349.0    32.9 10369.0    32.9 10410.0
GR  34.8 10429.0    34.9 10449.0    35.9 10470.0    36.0 10491.0    34.8 10508.0
GR  36.9 10530.0    36.1 10550.0    36.7 10570.0    38.9 10589.0    37.8 10609.0
GR  37.9 10629.0    41.6 10650.0    44.8 10669.0    46.7 10689.0    48.0 10709.0
GR  47.8 10850.0    47.0 10869.0    43.8 10930.0    42.0 10950.0    41.9 10970.0
GR  43.0 10989.0    43.1 11008.0    45.0 11029.0    48.1 11050.0    49.1 11069.0
GR  51.9 11089.0    63.8 11128.0    68.0 11151.0    70.8 11177.0    71.9 11200.0
GR  70.8 11299.0    75.8 14299.0    95.8 14301.0
X1185.38     40.   10409   11036    2534    2534    2534
X3    10
GR  91.8 10128.0    71.8 10130.0    66.8 10230.0    66.6 10248.0    67.4 10275.0
GR  68.3 10339.0    67.5 10349.0    63.8 10359.0    62.6 10409.0    60.3 10422.0
GR  57.6 10464.0    55.8 10469.0    53.1 10490.0    46.9 10509.0    44.0 10529.0
GR  40.1 10549.0    39.9 10569.0    38.1 10588.0    41.9 10609.0    40.9 10629.0
GR  40.9 10650.0    37.9 10709.0    37.8 10749.0    36.9 10770.0    37.9 10789.0
GR  37.7 10849.0    37.0 10870.0    36.9 10890.0    35.0 10910.0    35.0 10930.0
GR  38.1 10949.0    38.9 10968.0    40.9 10990.0    57.2 11021.0    64.2 11028.0
GR  66.3 11036.0    66.5 11049.0    66.3 11149.0    71.3 14149.0    91.3 14151.0
X1186.16     38.   10060   10710    4118    4118    4118
X3    10
GR 100.2  9849.0    80.2  9851.0    75.2  9951.0    75.2  9999.0    75.2 10036.0
GR  75.3 10048.0    75.2 10060.0    68.2 10089.0    66.5 10107.0    57.3 10138.0
GR  45.0 10170.0    39.0 10189.0    37.0 10210.0    36.9 10249.0    35.9 10270.0
GR  36.1 10291.0    34.9 10310.0    35.0 10330.0    34.2 10350.0    35.8 10390.0
GR  36.0 10470.0    34.8 10490.0    35.1 10511.0    35.9 10530.0    35.9 10551.0
GR  36.9 10571.0    38.7 10589.0    42.2 10614.0    43.8 10629.0    55.8 10670.0
GR  57.3 10677.0    63.3 10691.0    69.2 10710.0    69.2 10751.0    69.2 10800.0
GR  69.2 10826.0    74.2 13826.0    94.2 13828.0
X1186.37     33.   10056   10669    1108    1108    1108
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X3    10
GR 103.6  9847.0    83.6  9849.0    78.6  9949.0    78.6  9999.0    78.6 10056.0
GR  64.3 10078.0    57.5 10096.0    51.1 10128.0    41.0 10148.0    35.0 10168.0
GR  27.2 10228.0    29.1 10268.0    29.0 10289.0    31.1 10308.0    33.1 10349.0
GR  31.9 10368.0    34.2 10389.0    36.1 10428.0    36.0 10468.0    37.2 10488.0
GR  37.2 10509.0    35.1 10529.0    36.2 10548.0    42.0 10589.0    48.1 10610.0
GR  57.3 10634.0    64.6 10647.0    70.5 10669.0    71.6 10698.0    70.6 10749.0
GR  70.5 10769.0    75.5 13769.0    95.5 13771.0
X1186.59     36.   10070   10760    1161    1161    1161
X3    10
GR 107.9  9847.0    87.9  9849.0    82.9  9949.0    83.3  9998.0    81.9 10048.0
GR  81.3 10060.0    81.3 10070.0    68.4 10110.0    67.8 10116.0    62.4 10140.0
GR  57.7 10166.0    55.0 10170.0    50.2 10190.0    38.1 10209.0    34.2 10229.0
GR  32.2 10248.0    31.2 10270.0    31.1 10309.0    30.1 10330.0    32.3 10370.0
GR  32.1 10390.0    34.1 10429.0    33.2 10448.0    35.1 10490.0    35.1 10590.0
GR  36.9 10611.0    39.9 10630.0    46.1 10651.0    54.0 10669.0    63.8 10712.0
GR  69.3 10728.0    74.8 10760.0    74.8 10850.0    74.8 10901.0    79.8 13901.0
GR  99.8 13903.0
X1186.80     37.   10049   10798    1108    1108    1108
X3    10
GR 108.3  9695.0    88.3  9697.0    83.3  9797.0    71.5  9848.0    65.9  9899.0
GR  65.9  9949.0    65.9  9999.0    65.9 10049.0    63.4 10069.0    57.5 10098.0
GR  55.0 10109.0    53.0 10129.0    52.1 10148.0    46.1 10168.0    41.1 10188.0
GR  38.2 10248.0    38.1 10268.0    36.3 10308.0    39.2 10327.0    38.1 10348.0
GR  38.2 10388.0    37.2 10407.0    39.1 10427.0    39.3 10488.0    38.1 10507.0
GR  38.0 10527.0    36.1 10547.0    39.2 10567.0    43.3 10648.0    42.2 10667.0
GR  46.2 10688.0    57.5 10723.0    70.6 10798.0    74.7 10847.0    71.8 10947.0
GR  76.8 13947.0    96.8 13949.0
X1188.21     29.   10049   10575    7445    7445    7445
X3    10
GR  91.7  9846.0    71.7  9848.0    66.7  9948.0    66.7  9990.0    66.7 10019.0
GR  66.7 10049.0    57.7 10083.0    42.0 10109.0    40.0 10129.0    40.0 10189.0
GR  34.9 10210.0    31.9 10229.0    31.8 10249.0    30.9 10269.0    30.9 10389.0
GR  30.0 10409.0    30.0 10449.0    35.0 10469.0    39.0 10488.0    49.0 10508.0
GR  53.1 10528.0    53.0 10549.0    57.0 10569.0    62.3 10575.0    63.7 10609.0
GR  62.3 10654.0    62.3 10709.0    67.3 13709.0    87.3 13711.0
X1188.41     34.   10062   10683    1056    1056    1056
X3    10
GR  88.0  9908.0    68.0  9910.0    63.0 10010.0    63.3 10041.0    63.0 10062.0
GR  61.0 10082.0    57.4 10110.0    54.9 10119.0    53.0 10140.0    51.0 10180.0
GR  38.0 10240.0    37.0 10261.0    37.1 10280.0    36.1 10299.0    37.0 10319.0
GR  35.0 10340.0    36.1 10359.0    35.0 10379.0    32.1 10399.0    32.0 10419.0
GR  33.2 10499.0    30.0 10520.0    30.0 10541.0    31.0 10559.0    36.0 10579.0
GR  36.8 10600.0    43.7 10621.0    57.1 10639.0    63.3 10659.0    68.9 10683.0
GR  70.3 10749.0    69.3 10799.0    74.3 13799.0    94.3 13801.0
X1188.62     27.   10130   10597    1108    1108    1108
X3    10
GR  88.8  9916.0    68.8  9918.0    63.8 10018.0    63.5 10048.0    62.7 10063.0
GR  62.7 10099.0    62.7 10118.0    62.7 10130.0    57.6 10144.0    55.1 10158.0
GR  46.8 10178.0    38.9 10218.0    38.0 10238.0    33.8 10273.0    29.8 10319.0
GR  28.8 10339.0    26.8 10359.0    22.8 10439.0    23.0 10459.0    23.8 10479.0
GR  27.9 10499.0    29.9 10518.0    36.9 10538.0    70.7 10597.0    70.7 10698.0
GR  75.7 13698.0    95.7 13700.0
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X1188.81     39.   10100   10829    1003    1003    1003
X3    10
GR  98.0  9899.0    78.0  9901.0    73.0 10001.0    73.0 10100.0    69.9 10109.0
GR  64.6 10120.0    57.7 10129.0    48.1 10159.0    44.0 10180.0    35.9 10200.0
GR  33.0 10219.0    32.9 10240.0    36.0 10301.0    35.0 10320.0    36.0 10341.0
GR  36.0 10361.0    39.0 10400.0    33.1 10419.0    36.9 10460.0    32.1 10478.0
GR  34.1 10501.0    42.1 10599.0    45.7 10619.0    47.0 10639.0    49.8 10658.0
GR  49.9 10681.0    48.8 10699.0    50.6 10740.0    52.5 10759.0    51.7 10781.0
GR  54.5 10801.0    57.3 10804.0    61.2 10829.0    61.2 10841.0    61.2 10942.0
GR  62.2 10960.0    64.7 11000.0    69.7 14000.0    89.7 14002.0
X1189.41     35.   10099   10822    3164    3164    3164
X3    10
GR 101.0  9897.0    81.0  9899.0    76.0  9999.0    76.4 10049.0    76.0 10099.0
GR  70.7 10114.0    64.2 10139.0    59.9 10159.0    52.3 10215.0    32.0 10260.0
GR  29.5 10280.0    27.7 10319.0    27.6 10338.0    29.5 10378.0    29.5 10398.0
GR  30.3 10418.0    30.3 10439.0    32.0 10459.0    33.0 10478.0    32.2 10498.0
GR  32.1 10518.0    33.0 10538.0    34.8 10558.0    34.8 10579.0    33.8 10598.0
GR  33.7 10658.0    37.2 10697.0    40.8 10717.0    47.9 10739.0    51.9 10742.0
GR  61.7 10798.0    68.6 10822.0    68.6 10919.0    73.6 13919.0    93.6 13921.0
X1189.61     29.   10090   10751    1056    1056    1056
X3    10
GR  89.8  9898.0    69.8  9900.0    64.8 10000.0    64.8 10050.0    64.8 10070.0
GR  64.8 10090.0    62.3 10100.0    57.9 10175.0    46.2 10212.0    42.1 10233.0
GR  40.4 10250.0    39.2 10271.0    40.3 10292.0    35.3 10393.0    38.4 10411.0
GR  38.2 10432.0    39.3 10452.0    39.1 10471.0    38.2 10492.0    38.3 10512.0
GR  40.3 10531.0    40.2 10651.0    41.3 10671.0    57.6 10720.0    75.1 10751.0
GR  75.1 10801.0    75.1 10852.0    80.1 13852.0   100.1 13854.0
X1189.83     31. 10139.7 10649.4    1161    1161    1161
X3    10
GR  89.7  9948.4    69.7  9950.4    64.7 10050.4    64.7 10074.8    64.7 10120.0
GR  64.7 10125.2    64.7 10139.7    62.6 10150.0    57.5 10161.1    52.8 10169.8
GR  41.0 10209.2    38.9 10229.8    36.9 10269.9    33.9 10289.1    33.0 10309.6
GR  33.0 10330.0    31.9 10349.5    31.9 10409.6    33.9 10429.7    33.8 10509.2
GR  34.9 10528.9    34.9 10549.8    35.9 10569.5    39.8 10588.8    53.7 10609.2
GR  62.3 10630.3    71.6 10641.9    74.5 10649.4    74.5 10749.8    79.5 13749.8
GR  99.5 13751.8
X1190.00     38.   10140   10685     897     897     897
X3    10
GR  95.8  9938.0    75.8  9940.0    70.8 10040.0    70.8 10050.0    70.8 10071.0
GR  70.8 10095.0    70.8 10100.0    70.8 10115.0    70.8 10140.0    63.9 10161.0
GR  57.8 10211.0    54.5 10219.0    49.0 10240.0    41.3 10280.0    36.1 10301.0
GR  34.1 10320.0    32.1 10359.0    32.0 10384.0    31.2 10400.0    31.1 10420.0
GR  29.0 10461.0    26.8 10481.0    25.7 10501.0    25.9 10521.0    23.9 10540.0
GR  23.9 10562.0    23.0 10581.0    25.0 10599.0    32.9 10622.0    37.9 10627.0
GR  50.1 10641.0    57.3 10655.0    61.9 10661.0    73.6 10685.0    74.2 10751.0
GR  73.6 10801.0    78.6 13801.0    98.6 13803.0
X1190.41     38.   10047   10675    2164    2164    2164
X3    10
GR 106.1  9846.0    86.1  9848.0    81.1  9948.0    81.1  9969.0    81.1  9993.0
GR  81.1 10047.0    64.2 10081.0    57.6 10088.0    53.1 10109.0    47.9 10118.0
GR  42.1 10128.0    36.9 10149.0    36.9 10168.0    33.9 10188.0    33.8 10210.0
GR  34.9 10239.0    33.7 10250.0    32.9 10268.0    32.9 10289.0    35.0 10309.0
GR  30.9 10348.0    31.0 10369.0    33.8 10427.0    34.1 10450.0    35.1 10469.0
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Revised: 4-12-02, 5-7-02, 7-31-02

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GR  34.9 10509.0    34.1 10521.0    35.9 10549.0    43.2 10589.0    51.5 10609.0
GR  55.5 10629.0    57.9 10644.0    64.1 10675.0    66.9 10719.0    64.6 10749.0
GR  70.5 10800.0    75.5 13800.0    95.5 13802.0
X1190.60     38. 10078.5 10808.1    1003    1003    1003
X3    10
GR 100.2  9914.8    80.2  9916.8    75.2 10016.8    75.2 10039.2    75.8 10047.7
GR  75.2 10078.5    68.6 10098.6    63.9 10122.7    57.0 10141.8    49.7 10158.9
GR  40.8 10178.4    38.0 10198.7    35.6 10218.4    33.8 10257.6    33.8 10318.6
GR  35.7 10338.1    35.8 10357.9    36.9 10377.3    36.8 10399.2    33.7 10417.9
GR  35.7 10458.2    37.8 10477.6    37.9 10498.5    38.9 10517.9    40.9 10537.8
GR  40.7 10557.2    46.9 10617.5    51.9 10637.0    52.9 10657.4    49.7 10677.7
GR  51.0 10697.6    54.9 10717.1    57.2 10722.1    73.2 10808.1    73.2 10848.2
GR  73.2 10897.3    78.2 13897.3    98.2 13899.3
X1190.99     29.   10063   10628    2059    2059    2059
X3    10
GR 108.1  9875.0    88.1  9877.0    83.1  9977.0    77.1  9997.0    74.4 10047.0
GR  71.6 10063.0    64.0 10078.0    57.3 10098.0    49.8 10127.0    40.9 10148.0
GR  39.0 10168.0    30.1 10188.0    30.1 10209.0    29.2 10228.0    29.2 10269.0
GR  31.3 10289.0    35.8 10388.0    36.0 10409.0    39.9 10486.0    40.0 10509.0
GR  40.9 10527.0    43.9 10547.0    52.8 10567.0    57.3 10587.0    63.6 10609.0
GR  66.4 10628.0    67.7 10697.0    72.7 13697.0    92.7 13699.0
X1191.19     40.   10043   10767    1056    1056    1056
X3    10
GR 110.5  9919.0    90.5  9921.0    85.5 10021.0    82.8 10031.0    82.1 10043.0
GR  76.7 10063.0    73.4 10082.0    71.1 10101.0    68.1 10120.0    66.1 10139.0
GR  64.3 10163.0    57.5 10197.0    46.9 10217.0    40.8 10236.0    31.0 10255.0
GR  28.8 10291.0    28.8 10330.0    30.0 10347.0    30.0 10369.0    31.1 10388.0
GR  33.1 10406.0    33.0 10445.0    34.2 10464.0    36.1 10483.0    36.3 10502.0
GR  38.3 10539.0    39.3 10567.0    43.6 10577.0    53.5 10596.0    58.0 10610.0
GR  61.9 10689.0    65.1 10729.0    67.2 10747.0    72.2 10767.0    72.6 10785.0
GR  76.5 10804.0    73.3 10851.0    75.0 10898.0    80.0 13898.0   100.0 13900.0
X1191.24     35.   10043   10777     264     264     264
X3    10
GR 112.4  9913.0    92.4  9915.0    87.4 10015.0    86.1 10020.0    84.8 10043.0
GR  79.6 10077.0    64.6 10138.0    60.0 10179.0    61.4 10215.0    56.5 10223.0
GR  52.1 10234.0    45.9 10253.0    38.0 10272.0    32.0 10310.0    34.0 10329.0
GR  34.0 10348.0    33.0 10368.0    32.9 10424.0    34.1 10443.0    34.0 10462.0
GR  36.0 10499.0    36.0 10519.0    36.9 10537.0    37.0 10575.0    39.2 10613.0
GR  39.1 10631.0    52.4 10669.0    56.9 10688.0    65.0 10725.0    69.6 10754.0
GR  72.4 10777.0    72.4 10801.0    74.4 10849.0    79.4 13849.0    99.4 13851.0
X1192.37     40.   10054   10698    5967    5967    5967
X3    10
GR  88.9  9936.0    68.9  9938.0    63.9 10038.0    62.9 10047.0    62.9 10054.0
GR  59.6 10078.0    47.5 10098.0    45.9 10113.0    43.7 10117.0    42.4 10121.0
GR  35.1 10157.0    30.5 10178.0    28.6 10198.0    29.1 10219.0    29.2 10238.0
GR  29.7 10258.0    29.8 10279.0    28.5 10298.0    27.8 10319.0    25.1 10359.0
GR  22.5 10378.0    20.5 10398.0    20.5 10418.0    21.9 10438.0    21.9 10460.0
GR  19.2 10479.0    19.9 10500.0    19.9 10519.0    27.8 10538.0    33.0 10558.0
GR  41.2 10578.0    42.4 10583.0    44.9 10598.0    47.3 10648.0    51.8 10678.0
GR  59.4 10698.0    60.7 10713.0    61.0 10797.0    66.0 13797.0    86.0 13799.0
X1192.58     27.   10065   10582    1108    1108    1108
X3    10
GR  90.3  9947.0    70.3  9949.0    65.3 10049.0    62.2 10065.0    47.0 10089.0
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Subsegment 080101
Originated: January 31, 2002
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GR  44.8 10110.0    39.1 10129.0    38.0 10148.0    38.0 10189.0    40.1 10229.0
GR  38.0 10248.0    37.1 10268.0    38.2 10288.0    38.0 10308.0    39.0 10329.0
GR  39.0 10528.0    41.9 10549.0    47.0 10568.0    62.9 10582.0    62.9 10600.0
GR  62.9 10612.0    62.9 10629.0    69.3 10699.0    68.0 10749.0    68.5 10798.0
GR  73.5 13798.0    93.5 13800.0
X1192.82     28.   10058   10669    1267    1267    1267
X3    10
GR 117.7  9847.0    97.7  9849.0    92.7  9949.0    92.8  9970.0    92.2 10007.0
GR  87.4 10058.0    76.9 10068.0    48.1 10108.0    39.2 10128.0    34.9 10149.0
GR  32.9 10169.0    33.0 10229.0    39.1 10348.0    39.2 10369.0    40.2 10388.0
GR  40.2 10449.0    42.0 10488.0    42.0 10528.0    46.3 10549.0    52.9 10567.0
GR  59.4 10578.0    62.6 10598.0    70.5 10669.0    70.5 10699.0    70.5 10750.0
GR  73.3 10799.0    78.3 13799.0    98.3 13801.0
X1193.23     37.   10079   10794    2164    2164    2164
X3    10
GR  94.8  9896.0    74.8  9898.0    69.8  9998.0    56.8 10049.0    54.6 10079.0
GR  50.3 10109.0    47.9 10149.0    46.7 10199.0    45.9 10203.0    44.9 10219.0
GR  32.5 10278.0    31.1 10298.0    32.6 10338.0    31.9 10358.0    31.8 10399.0
GR  31.0 10419.0    31.1 10438.0    29.7 10479.0    28.0 10499.0    28.0 10540.0
GR  29.6 10559.0    29.6 10580.0    28.1 10618.0    28.1 10679.0    28.8 10699.0
GR  35.4 10719.0    38.4 10739.0    44.9 10758.0    45.8 10759.0    55.2 10778.0
GR  65.0 10794.0    65.0 10815.0    65.0 10827.0    65.4 10837.0    65.0 10848.0
GR  70.0 13848.0    90.0 13850.0
X1193.45     38.   10123   10759    1161    1161    1161
X3    10
GR  86.9  9916.0    66.9  9918.0    61.9 10018.0    61.6 10049.0    61.6 10099.0
GR  61.6 10123.0    57.4 10149.0    53.4 10199.0    52.2 10209.0    36.8 10240.0
GR  29.9 10259.0    27.8 10279.0    25.7 10320.0    24.9 10340.0    25.9 10362.0
GR  25.9 10379.0    24.9 10400.0    24.9 10439.0    23.9 10459.0    24.9 10479.0
GR  22.9 10520.0    22.8 10559.0    21.9 10579.0    21.8 10620.0    24.8 10638.0
GR  24.8 10660.0    31.0 10670.0    43.8 10699.0    49.4 10706.0    53.3 10719.0
GR  55.1 10728.0    60.7 10741.0    66.5 10750.0    71.6 10759.0    72.7 10849.0
GR  72.3 10874.0    77.3 13874.0    97.3 13876.0
X1193.61     42.   10099   10721     844     844     844
X3    10
GR  98.2  9897.0    78.2  9899.0    73.2  9999.0    72.2 10099.0    66.2 10118.0
GR  57.5 10158.0    52.2 10173.0    49.6 10188.0    47.2 10199.0    36.1 10219.0
GR  26.1 10259.0    25.0 10279.0    25.0 10299.0    23.9 10319.0    21.9 10339.0
GR  20.8 10359.0    21.8 10378.0    21.9 10439.0    23.0 10458.0    22.9 10499.0
GR  20.9 10539.0    20.8 10579.0    21.9 10599.0    29.9 10619.0    35.0 10640.0
GR  41.8 10659.0    49.6 10666.0    53.1 10679.0    54.8 10688.0    58.2 10694.0
GR  58.7 10700.0    59.7 10704.0    64.8 10715.0    71.0 10721.0    71.0 10749.0
GR  71.0 10758.0    71.0 10786.0    71.0 10790.0    71.0 10800.0    71.0 10824.0
GR  76.0 13824.0    96.0 13826.0
X1194.13     40.   10048   10648    2746    2746    2746
X3    10
GR 108.4  6981.0    88.4  6983.0    83.4  9983.0    85.6  9992.0    86.2  9998.0
GR  83.4 10048.0    73.7 10064.0    65.8 10100.0    63.4 10119.0    61.5 10130.0
GR  59.6 10150.0    53.1 10170.0    42.5 10188.0    38.3 10210.0    37.3 10229.0
GR  32.4 10250.0    30.3 10268.0    29.2 10288.0    29.1 10309.0    30.5 10329.0
GR  30.4 10349.0    29.3 10370.0    29.3 10389.0    28.3 10409.0    28.4 10429.0
GR  29.3 10450.0    29.4 10492.0    30.2 10509.0    30.5 10530.0    35.5 10549.0
GR  40.6 10558.0    59.8 10608.0    60.6 10629.0    65.3 10634.0    67.2 10648.0
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GR  67.2 10675.0    67.2 10749.0    67.2 10797.0    72.2 13797.0    92.2 13799.0
X1194.43     35.   10108   10599    1584    1584    1584
X3    10
GR 104.4  6997.0    84.4  6999.0    79.4  9999.0    79.4 10027.0    79.4 10037.0
GR  79.4 10066.0    79.4 10093.0    79.4 10108.0    70.5 10121.0    59.7 10144.0
GR  59.7 10146.0    53.0 10158.0    48.9 10179.0    38.1 10218.0    39.2 10238.0
GR  38.2 10258.0    35.2 10279.0    32.9 10300.0    30.2 10319.0    29.1 10339.0
GR  27.4 10359.0    27.3 10388.0    30.2 10400.0    29.3 10418.0    32.3 10440.0
GR  34.6 10479.0    39.1 10499.0    53.5 10539.0    59.9 10560.0    64.9 10599.0
GR  64.9 10655.0    64.9 10701.0    64.9 10749.0    69.9 13749.0    89.9 13751.0
X1194.58     26.   10066   10499     792     792     792
X3    10
GR 102.0  6965.0    82.0  6967.0    77.0  9967.0    75.6 10002.0    73.8 10066.0
GR  59.3 10083.0    50.9 10087.0    41.9 10109.0    30.3 10145.0    24.1 10189.0
GR  20.0 10209.0    20.0 10290.0    26.3 10330.0    28.1 10350.0    31.0 10369.0
GR  35.0 10388.0    40.3 10409.0    52.1 10448.0    52.9 10458.0    64.0 10499.0
GR  64.0 10517.0    66.1 10620.0    66.3 10649.0    66.2 10680.0    71.2 13680.0
GR  91.2 13682.0
X1194.78     33.   10098   10570    1056    1056    1056
X3    10
GR  99.2  6988.0    79.2  6990.0    74.2  9990.0    74.2 10098.0    59.5 10114.0
GR  59.2 10121.0    52.0 10140.0    40.9 10156.0    28.9 10180.0    26.9 10199.0
GR  26.0 10220.0    28.9 10240.0    31.1 10280.0    33.2 10301.0    35.0 10340.0
GR  37.0 10359.0    37.0 10380.0    39.2 10422.0    41.0 10440.0    41.1 10460.0
GR  42.2 10481.0    45.0 10501.0    49.1 10521.0    55.2 10542.0    59.5 10551.0
GR  65.3 10570.0    65.3 10591.0    65.3 10621.0    66.0 10673.0    71.4 10701.0
GR  71.1 10741.0    76.1 13741.0    96.1 13743.0
X1194.97     33.   10130   10663    1003    1003    1003
X3    10
GR 102.3  7062.0    82.3  7064.0    77.3 10064.0    77.0 10130.0    59.5 10154.0
GR  54.0 10159.0    50.0 10179.0    41.1 10198.0    31.1 10238.0    30.0 10259.0
GR  30.0 10279.0    28.1 10299.0    30.2 10318.0    30.1 10339.0    32.0 10378.0
GR  34.0 10399.0    33.9 10420.0    35.1 10438.0    34.1 10458.0    35.0 10479.0
GR  35.0 10498.0    37.1 10519.0    42.9 10539.0    47.2 10578.0    53.2 10599.0
GR  59.5 10615.0    69.3 10637.0    72.6 10663.0    72.7 10681.0    72.6 10698.0
GR  72.6 10734.0    77.6 13734.0    97.6 13736.0
X1195.36     28.   10173   10710    2059    2059    2059
X3    10
GR  96.5  7057.0    76.5  7059.0    71.5 10059.0    70.2 10123.0    70.2 10173.0
GR  59.2 10202.0    58.0 10208.0    56.1 10229.0    59.2 10249.0    45.1 10268.0
GR  42.9 10288.0    41.0 10328.0    38.0 10350.0    36.8 10370.0    27.9 10460.0
GR  28.0 10510.0    29.0 10530.0    33.1 10551.0    47.9 10570.0    40.1 10589.0
GR  46.1 10609.0    56.1 10620.0    59.6 10639.0    78.4 10710.0    78.7 10750.0
GR  78.4 10800.0    83.4 13800.0   103.4 13802.0
X1195.56     25.   10281   10828    1056    1056    1056
X3    10
GR  97.6  6978.0    77.6  6980.0    72.6  9980.0    72.6 10025.0    72.7 10060.0
GR  72.6 10281.0    51.8 10330.0    45.9 10349.0    38.0 10408.0    37.0 10449.0
GR  35.9 10470.0    33.1 10507.0    32.9 10529.0    31.1 10547.0    30.0 10568.0
GR  27.9 10589.0    28.0 10629.0    31.9 10708.0    45.6 10735.0    60.2 10765.0
GR  74.4 10828.0    75.4 10850.0    75.5 10919.0    80.5 13919.0   100.5 13921.0
X1195.95     26.   10030   10589    2059    2059    2059
X3    10
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GR 100.4  6946.0    80.4  6948.0    75.4  9948.0    75.5  9998.0    74.5 10030.0
GR  69.3 10059.0    68.9 10081.0    58.3 10099.0    51.0 10119.0    37.0 10138.0
GR  35.0 10159.0    31.9 10178.0    32.0 10199.0    28.0 10280.0    28.0 10359.0
GR  29.9 10379.0    30.9 10399.0    33.0 10418.0    37.0 10439.0    60.6 10504.0
GR  70.1 10580.0    71.9 10589.0    72.4 10630.0    71.9 10690.0    76.9 13690.0
GR  96.9 13692.0
X1196.15     23.   10109   10570    1056    1056    1056
X3    10
GR  96.3  7006.0    76.3  7008.0    71.3 10008.0    71.7 10049.0    71.3 10109.0
GR  60.4 10135.0    45.0 10169.0    31.8 10190.0    29.0 10210.0    28.9 10230.0
GR  30.0 10250.0    38.1 10331.0    42.1 10410.0    44.1 10429.0    44.0 10470.0
GR  46.1 10489.0    49.0 10509.0    54.1 10529.0    60.8 10540.0    66.8 10570.0
GR  66.8 10580.0    71.8 13580.0    91.8 13582.0
X1196.34     24.   10038   10474    1003    1003    1003
X3    10
GR  93.6  6937.0    73.6  6939.0    68.6  9939.0    68.5 10029.0    68.4 10038.0
GR  60.3 10064.0    48.9 10090.0    43.1 10099.0    28.0 10119.0    26.0 10140.0
GR  25.1 10159.0    25.0 10200.0    31.1 10239.0    33.1 10279.0    41.2 10320.0
GR  46.1 10339.0    50.2 10380.0    56.2 10400.0    60.5 10418.0    68.6 10474.0
GR  69.1 10529.0    68.6 10544.0    73.6 13544.0    93.6 13546.0
X1196.54     27.   10040   10561    1056    1056    1056
X3    10
GR  96.9  6938.0    76.9  6940.0    71.9  9940.0    71.9  9999.0    71.9 10040.0
GR  71.3 10042.0    60.2 10060.0    40.1 10100.0    36.0 10119.0    34.0 10160.0
GR  34.0 10220.0    37.1 10279.0    37.1 10299.0    38.1 10320.0    38.1 10380.0
GR  39.1 10400.0    43.0 10439.0    43.9 10460.0    53.0 10481.0    57.9 10500.0
GR  60.3 10506.0    68.5 10545.0    71.1 10561.0    71.1 10586.0    71.1 10610.0
GR  76.1 13610.0    96.1 13612.0
X1196.73     29.    9999   10534    1003    1003    1003
X3    10
GR  95.5  6897.0    75.5  6899.0    70.5  9899.0    70.5  9949.0    70.5  9999.0
GR  69.8 10018.0    60.2 10039.0    44.9 10058.0    38.9 10079.0    35.9 10098.0
GR  33.8 10139.0    34.9 10159.0    34.8 10219.0    36.9 10239.0    40.0 10299.0
GR  39.8 10319.0    41.0 10338.0    41.0 10389.0    42.0 10399.0    44.0 10439.0
GR  47.0 10459.0    51.0 10478.0    58.0 10499.0    60.4 10505.0    68.6 10534.0
GR  68.6 10599.0    68.6 10630.0    73.6 13630.0    93.6 13632.0
X1196.93     33.   10040   10510    1056    1056    1056
X3    10
GR 101.2  6948.0    81.2  6950.0    76.2  9950.0    76.4 10000.0    76.6 10030.0
GR  76.2 10040.0    60.5 10060.0    44.0 10100.0    41.0 10120.0    40.1 10141.0
GR  40.0 10160.0    34.2 10180.0    33.9 10200.0    32.1 10220.0    30.9 10240.0
GR  31.0 10261.0    32.0 10280.0    33.9 10300.0    34.0 10321.0    38.0 10361.0
GR  39.0 10380.0    41.1 10401.0    42.0 10421.0    44.2 10441.0    50.1 10460.0
GR  59.1 10480.0    66.1 10510.0    66.2 10515.0    66.1 10541.0    66.1 10587.0
GR  69.5 10620.0    74.5 13620.0    94.5 13622.0
X1197.12     31.   10095   10604    1003    1003    1003
X3    10
GR 103.2  6957.0    83.2  6959.0    78.2  9959.0    78.2  9999.0    78.2 10070.0
GR  78.2 10080.0    78.2 10095.0    60.5 10120.0    45.0 10139.0    37.1 10179.0
GR  34.1 10199.0    33.2 10219.0    32.9 10239.0    31.0 10259.0    31.0 10279.0
GR  29.1 10319.0    29.1 10339.0    31.0 10379.0    31.0 10399.0    32.1 10418.0
GR  34.1 10438.0    35.0 10459.0    38.2 10479.0    47.2 10499.0    53.1 10518.0
GR  60.5 10538.0    69.3 10604.0    69.6 10668.0    69.3 10699.0    74.3 13699.0
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GR  94.3 13701.0
X1197.32     28.   10109   10577    1056    1056    1056
X3    10
GR  92.4  6998.0    72.4  7000.0    67.4 10000.0    67.4 10050.0    67.4 10076.0
GR  67.4 10109.0    60.5 10143.0    46.2 10179.0    41.9 10199.0    37.9 10239.0
GR  37.0 10259.0    30.9 10299.0    28.9 10320.0    28.0 10339.0    27.9 10359.0
GR  25.1 10380.0    29.1 10400.0    27.0 10419.0    27.9 10439.0    26.1 10459.0
GR  27.0 10478.0    53.1 10519.0    56.0 10539.0    60.8 10550.0    78.4 10577.0
GR  78.4 10699.0    83.4 13699.0   103.4 13701.0
X1197.51     26.   10068   10537    1003    1003    1003
X3    10
GR  89.2  6982.0    69.2  6984.0    64.2  9984.0    63.1 10028.0    61.8 10068.0
GR  60.5 10082.0    47.0 10118.0    42.1 10158.0    39.0 10179.0    38.0 10199.0
GR  34.9 10218.0    34.9 10258.0    34.0 10278.0    34.0 10298.0    33.0 10318.0
GR  29.0 10358.0    25.9 10419.0    25.9 10439.0    27.1 10459.0    32.1 10478.0
GR  60.8 10513.0    73.5 10537.0    73.9 10548.0    73.5 10698.0    78.5 13698.0
GR  98.5 13700.0
X1197.71     33.    9962   10519    1056    1056    1056
X3    10
GR  94.3  6856.0    74.3  6858.0    69.3  9858.0    69.0  9919.0    67.3  9962.0
GR  60.5 10004.0    51.0 10019.0    45.9 10040.0    42.0 10059.0    40.1 10080.0
GR  41.0 10099.0    39.9 10119.0    40.1 10159.0    39.1 10200.0    38.9 10219.0
GR  37.0 10260.0    37.1 10279.0    36.2 10299.0    34.0 10319.0    33.0 10339.0
GR  30.1 10360.0    29.9 10379.0    31.0 10399.0    42.1 10420.0    53.0 10440.0
GR  53.1 10459.0    60.0 10479.0    60.5 10484.0    69.1 10519.0    69.8 10549.0
GR  69.7 10652.0    74.7 13652.0    94.7 13654.0
X1197.91     30.    9924   10584    1056    1056    1056
X3    10
GR 102.5  6816.0    82.5  6818.0    77.5  9818.0    77.8  9879.0    77.4  9924.0
GR  75.6  9948.0    69.0  9991.0    60.5 10081.0    43.0 10119.0    40.0 10139.0
GR  39.9 10159.0    37.9 10199.0    38.0 10239.0    36.9 10259.0    37.0 10359.0
GR  37.9 10379.0    36.9 10399.0    37.1 10460.0    38.0 10479.0    38.0 10499.0
GR  41.0 10518.0    60.6 10551.0    69.8 10566.0    72.7 10579.0    73.8 10584.0
GR  73.8 10598.0    73.8 10649.0    73.8 10699.0    78.8 13699.0    98.8 13701.0
X1198.05     29.  9898.6 10559.9     739     739     739
X3    10
GR 103.7  6797.7    83.7  6799.7    78.7  9799.7    78.7  9847.8    78.7  9898.6
GR  78.3  9921.5    78.1  9922.0    69.2  9979.7    60.5 10063.3    50.0 10099.7
GR  40.9 10119.7    37.9 10140.2    37.9 10219.8    35.8 10239.9    37.0 10259.2
GR  36.9 10280.6    36.1 10300.1    37.0 10319.9    36.9 10419.9    35.8 10441.4
GR  35.8 10461.3    37.0 10480.6    51.8 10499.6    70.0 10549.8    76.2 10559.9
GR  76.6 10600.2    76.2 10700.3    81.2 13700.3   101.2 13702.3
X1198.10     31.    9919   10577     264     264     264
X3    10
GR 103.2  6778.0    83.2  6780.0    78.2  9780.0    78.2  9919.0    72.3  9946.0
GR  69.1  9970.0    60.6 10093.0    50.1 10109.0    41.8 10139.0    38.9 10159.0
GR  38.0 10179.0    35.9 10198.0    35.8 10238.0    35.0 10259.0    35.0 10299.0
GR  37.0 10308.0    37.0 10328.0    35.9 10350.0    36.0 10379.0    37.0 10398.0
GR  36.9 10458.0    35.9 10479.0    38.8 10499.0    53.9 10540.0    60.2 10550.0
GR  72.9 10562.0    77.2 10577.0    78.1 10599.0    77.2 10700.0    82.2 13700.0
GR 102.2 13702.0
X1198.30     24.   10064   10544    1056    1056    1056
X3    10
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Subsegment 080101
Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

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GR  89.4  6978.0    69.4  6980.0    64.4  9980.0    63.3 10038.0    62.1 10064.0
GR  60.7 10080.0    47.0 10119.0    42.8 10139.0    38.0 10239.0    37.9 10279.0
GR  36.1 10319.0    37.0 10340.0    35.1 10380.0    35.8 10400.0    32.9 10420.0
GR  31.1 10439.0    35.0 10479.0    49.5 10500.0    60.6 10522.0    76.4 10544.0
GR  76.4 10600.0    76.4 10699.0    81.4 13699.0   101.4 13701.0
X1198.49     27.   10099   10560    1003    1003    1003
X3    10
GR  88.8  6997.0    68.8  6999.0    63.8  9999.0    62.2 10049.0    63.6 10069.0
GR  62.2 10099.0    60.6 10108.0    51.0 10139.0    48.0 10159.0    43.0 10179.0
GR  41.1 10219.0    41.2 10239.0    34.0 10380.0    30.0 10420.0    31.1 10439.0
GR  29.1 10459.0    33.1 10479.0    39.1 10499.0    51.1 10520.0    60.1 10540.0
GR  60.5 10542.0    73.7 10560.0    74.4 10600.0    74.0 10640.0    73.7 10660.0
GR  78.7 13660.0    98.7 13662.0
X1198.69     27.   10076   10559    1056    1056    1056
X3    10
GR  93.0  6957.0    73.0  6959.0    68.0  9959.0    67.2 10001.0    67.2 10050.0
GR  67.2 10076.0    60.6 10105.0    52.9 10120.0    46.9 10139.0    41.9 10161.0
GR  40.8 10180.0    40.8 10200.0    38.9 10239.0    36.9 10260.0    37.9 10280.0
GR  37.9 10300.0    30.9 10439.0    34.0 10460.0    34.9 10479.0    42.7 10500.0
GR  60.5 10528.0    70.6 10549.0    73.8 10559.0    74.2 10599.0    73.8 10659.0
GR  78.8 13659.0    98.8 13661.0
X1198.89     34.    9980   10599    1056    1056    1056
X3    10
GR 101.7  6871.0    81.7  6873.0    76.7  9873.0    77.3  9953.0    76.7  9980.0
GR  69.6  9997.0    60.6 10007.0    58.9 10018.0    58.0 10038.0    50.9 10059.0
GR  34.7 10098.0    32.8 10138.0    34.0 10159.0    34.0 10219.0    32.9 10239.0
GR  33.0 10259.0    32.1 10279.0    34.0 10319.0    34.0 10339.0    33.0 10359.0
GR  33.8 10378.0    35.6 10398.0    41.0 10418.0    50.0 10438.0    54.8 10458.0
GR  57.9 10478.0    69.5 10579.0    75.2 10598.0    75.2 10599.0    75.2 10621.0
GR  75.2 10653.0    75.2 10686.0    80.2 13686.0   100.2 13688.0
X1199.28     27.   10034   10544    2059    2059    2059
X3    10
GR 102.1  6926.0    82.1  6928.0    77.1  9928.0    77.8  9982.0    77.1  9989.0
GR  77.1 10034.0    70.6 10045.0    60.6 10072.0    53.9 10078.0    45.3 10098.0
GR  39.1 10118.0    35.1 10139.0    35.2 10340.0    34.2 10360.0    34.1 10419.0
GR  36.0 10439.0    47.1 10459.0    55.1 10479.0    60.0 10499.0    60.8 10510.0
GR  64.5 10524.0    66.1 10544.0    67.6 10566.0    70.2 10589.0    72.5 10599.0
GR  77.5 13599.0    97.5 13601.0
X1199.47     34.   10031   10629    1003    1003    1003
X3    10
GR 103.2  6917.0    83.2  6919.0    78.2  9919.0    79.3  9989.0    78.1  9993.0
GR  78.3  9999.0    78.1 10031.0    73.9 10050.0    69.8 10064.0    60.7 10088.0
GR  54.3 10100.0    36.1 10160.0    35.0 10180.0    34.8 10220.0    34.1 10240.0
GR  34.1 10260.0    35.1 10280.0    33.9 10299.0    34.1 10320.0    32.1 10340.0
GR  33.0 10359.0    33.0 10420.0    36.9 10440.0    47.1 10460.0    53.8 10479.0
GR  60.8 10486.0    61.0 10499.0    59.4 10529.0    60.4 10569.0    65.2 10599.0
GR  76.0 10629.0    76.4 10644.0    81.4 13644.0   101.4 13646.0
X1200.06     26.   10048   10675    3115    3115    3115
X3    10
GR  89.9  6957.0    69.9  6959.0    64.9  9959.0    64.9 10048.0    60.7 10068.0
GR  55.3 10081.0    50.9 10097.0    26.1 10159.0    25.0 10179.0    25.1 10259.0
GR  24.0 10279.0    24.9 10299.0    24.9 10339.0    26.1 10359.0    26.1 10399.0
GR  27.1 10419.0    27.1 10439.0    37.0 10478.0    50.8 10518.0    54.5 10553.0
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Subsegment 080101
Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

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GR  56.6 10609.0    59.4 10643.0    65.4 10675.0    66.7 10698.0    71.7 13698.0
GR  91.7 13700.0
X1200.25     34.   10042   10699    1003    1003    1003
X3    10
GR 101.5  6927.0    81.5  6929.0    76.5  9929.0    76.5  9946.0    76.9  9970.0
GR  78.1  9999.0    78.0 10008.0    76.5 10042.0    68.3 10074.0    61.0 10135.0
GR  60.0 10140.0    56.2 10179.0    54.9 10201.0    52.1 10219.0    48.4 10238.0
GR  52.3 10258.0    38.1 10279.0    36.3 10319.0    36.2 10381.0    35.0 10400.0
GR  35.1 10438.0    32.1 10499.0    30.3 10520.0    31.0 10539.0    35.2 10559.0
GR  40.9 10578.0    53.0 10599.0    55.2 10619.0    61.0 10637.0    68.2 10678.0
GR  76.7 10699.0    76.8 10798.0    81.8 13798.0   101.8 13800.0
X1200.44     37.   10023   10650    1003    1003    1003
X3    10
GR 101.2  6916.0    81.2  6918.0    76.2  9918.0    76.9  9970.0    77.6  9998.0
GR  76.3 10015.0    75.2 10023.0    71.6 10035.0    69.0 10049.0    68.0 10065.0
GR  61.0 10168.0    53.0 10198.0    45.1 10219.0    39.1 10258.0    39.0 10280.0
GR  36.9 10299.0    35.9 10319.0    37.1 10339.0    35.3 10358.0    34.2 10379.0
GR  34.2 10419.0    33.2 10439.0    33.1 10459.0    34.1 10479.0    31.2 10500.0
GR  31.1 10519.0    34.1 10539.0    33.2 10559.0    52.8 10577.0    59.9 10598.0
GR  59.8 10618.0    61.1 10623.0    74.3 10650.0    76.1 10678.0    75.4 10758.0
GR  80.4 13758.0   100.4 13760.0
X1200.63     30. 10028.7 10663.0    1003    1003    1003
X3    10
GR 102.3  6936.4    82.3  6938.4    77.3  9938.4    77.3  9958.7    77.3  9969.2
GR  77.3 10028.7    70.8 10043.6    58.0 10058.9    48.8 10079.5    43.1 10100.8
GR  43.0 10157.3    44.0 10178.1    44.1 10259.0    42.0 10297.4    42.0 10318.2
GR  40.9 10338.6    40.9 10459.2    41.9 10477.5    44.9 10498.1    51.8 10517.5
GR  61.0 10517.8    64.7 10581.5    65.1 10598.9    66.4 10612.7    70.6 10641.6
GR  77.0 10663.0    77.8 10697.2    78.0 10776.5    83.0 13776.5   103.0 13778.5
X1200.82     31.   10078   10592    1003    1003    1003
X3    10
GR 101.7  6996.0    81.7  6998.0    76.7  9998.0    76.7 10029.0    76.7 10043.0
GR  76.7 10055.0    76.7 10078.0    59.7 10098.0    50.9 10119.0    46.8 10138.0
GR  43.9 10159.0    43.8 10197.0    41.9 10236.0    42.0 10257.0    40.0 10296.0
GR  39.9 10377.0    40.8 10396.0    41.2 10416.0    41.9 10436.0    42.1 10455.0
GR  40.1 10475.0    42.9 10496.0    46.9 10515.0    54.9 10534.0    60.8 10545.0
GR  67.1 10592.0    67.6 10608.0    67.1 10624.0    67.1 10639.0    72.1 13639.0
GR  92.1 13641.0
X1201.01     26.   10037   10535    1003    1003    1003
X3    10
GR 101.5  6915.0    81.5  6917.0    76.5  9917.0    76.4  9935.0    76.8  9967.0
GR  76.9 10019.0    76.4 10027.0    74.7 10037.0    60.9 10061.0    42.9 10097.0
GR  39.9 10118.0    38.9 10137.0    38.6 10339.0    39.7 10359.0    39.7 10399.0
GR  40.6 10420.0    40.5 10440.0    46.0 10461.0    52.5 10480.0    60.8 10499.0
GR  69.6 10535.0    70.2 10548.0    69.6 10570.0    69.6 10646.0    74.6 13646.0
GR  94.6 13648.0
X1201.20     24.   10019   10586    1003    1003    1003
X3    10
GR 101.8  6899.0    81.8  6901.0    76.8  9901.0    77.2 10000.0    77.1 10013.0
GR  76.2 10019.0    69.9 10030.0    60.8 10056.0    59.4 10061.0    42.7 10102.0
GR  40.5 10140.0    40.6 10380.0    39.7 10400.0    40.8 10419.0    40.8 10479.0
GR  42.1 10498.0    44.9 10518.0    61.0 10558.0    66.4 10586.0    68.3 10629.0
GR  72.1 10671.0    76.4 10697.0    81.4 13697.0   101.4 13699.0
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Subsegment 080101
Originated: January 31, 2002
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X1201.40     33.   10012   10678    1056    1056    1056
X3    10
GR 103.1  6955.0    83.1  6957.0    78.1  9957.0    77.9  9971.0    77.0 10012.0
GR  74.8 10026.0    70.4 10041.0    60.9 10145.0    52.9 10159.0    47.0 10180.0
GR  45.8 10200.0    44.2 10219.0    44.2 10242.0    40.9 10301.0    38.2 10319.0
GR  37.9 10340.0    35.2 10360.0    36.2 10380.0    36.3 10480.0    37.0 10500.0
GR  36.0 10519.0    36.2 10540.0    39.2 10558.0    46.8 10580.0    57.9 10599.0
GR  58.9 10619.0    60.9 10638.0    73.6 10669.0    76.1 10678.0    76.1 10702.0
GR  76.1 10798.0    81.1 13798.0   101.1 13800.0
X1201.58     31.   10297   10859     950     950     950
X3    10
GR 102.8  6939.0    82.8  6941.0    77.8  9941.0    78.0 10000.0    76.9 10049.0
GR  74.8 10064.0    68.7 10090.0    64.1 10157.0    64.1 10198.0    64.1 10228.0
GR  64.1 10297.0    60.9 10316.0    50.9 10337.0    42.8 10358.0    41.0 10377.0
GR  38.9 10417.0    39.0 10555.0    38.1 10576.0    38.0 10655.0    35.9 10695.0
GR  36.1 10734.0    38.2 10754.0    42.1 10774.0    51.9 10794.0    56.7 10813.0
GR  60.9 10828.0    73.7 10859.0    73.7 10892.0    73.7 10953.0    78.7 13953.0
GR  98.7 13955.0
X1201.95     32.   10049   10691    1953    1953    1953
X3    10
GR 100.3  6998.0    80.3  7000.0    75.3 10000.0    74.4 10049.0    67.3 10084.0
GR  61.1 10149.0    61.1 10153.0    56.0 10169.0    41.9 10209.0    38.9 10229.0
GR  38.7 10289.0    36.8 10309.0    36.7 10329.0    38.0 10349.0    37.9 10429.0
GR  38.9 10449.0    37.8 10469.0    38.0 10528.0    36.7 10549.0    37.9 10568.0
GR  43.2 10582.0    53.0 10606.0    57.9 10626.0    58.2 10647.0    61.3 10667.0
GR  75.0 10686.0    76.5 10691.0    76.6 10721.0    76.5 10747.0    76.5 10792.0
GR  81.5 13792.0   101.5 13794.0
X1202.50     35.   10048   10727    2904    2904    2904
X3    10
GR  99.4  6997.0    79.4  6999.0    74.4  9999.0    73.6 10023.0    73.0 10048.0
GR  69.6 10063.0    61.3 10192.0    57.9 10208.0    55.8 10228.0    52.2 10248.0
GR  44.9 10269.0    40.2 10290.0    39.2 10307.0    39.3 10369.0    38.2 10389.0
GR  40.3 10408.0    39.3 10427.0    39.3 10469.0    40.4 10487.0    40.4 10529.0
GR  41.4 10547.0    41.3 10568.0    42.4 10588.0    42.5 10627.0    43.6 10649.0
GR  46.8 10667.0    51.7 10686.0    61.9 10706.0    76.9 10727.0    77.3 10736.0
GR  76.9 10771.0    76.9 10820.0    76.9 10846.0    81.9 13846.0   101.9 13848.0
X1202.69     30.   10034   10739    1003    1003    1003
X3    10
GR  99.5  7032.0    79.5  7034.0    74.5 10034.0    66.8 10098.0    65.1 10107.0
GR  65.5 10128.0    65.4 10176.0    64.8 10207.0    61.5 10225.0    55.0 10279.0
GR  50.7 10299.0    45.0 10319.0    42.1 10340.0    40.0 10379.0    41.0 10400.0
GR  39.9 10420.0    41.1 10440.0    40.1 10460.0    39.8 10560.0    41.0 10579.0
GR  40.9 10640.0    42.2 10661.0    45.1 10680.0    48.8 10699.0    74.5 10739.0
GR  75.3 10749.0    75.2 10775.0    74.5 10849.0    79.5 13849.0    99.5 13851.0
X1202.88     34.   10030   10720    1003    1003    1003
X3    10
GR 100.5  6928.0    80.5  6930.0    75.5  9930.0    75.4  9955.0    75.6  9979.0
GR  75.5 10005.0    74.1 10030.0    68.8 10074.0    62.0 10134.0    61.3 10158.0
GR  63.5 10184.0    61.4 10285.0    59.0 10289.0    52.9 10309.0    39.0 10349.0
GR  38.1 10368.0    38.0 10388.0    37.0 10408.0    36.7 10509.0    37.9 10529.0
GR  40.1 10550.0    44.0 10629.0    45.3 10650.0    48.0 10669.0    53.9 10689.0
GR  61.4 10705.0    76.3 10720.0    76.3 10750.0    76.3 10774.0    76.3 10800.0
GR  76.3 10824.0    76.3 10849.0    81.3 13849.0   101.3 13851.0
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X1203.26     27.   10049   10479    2006    2006    2006
X3    10
GR  93.6  6972.0    73.6  6974.0    68.6  9974.0    68.7 10025.0    68.6 10049.0
GR  67.6 10059.0    61.6 10067.0    37.1 10110.0    30.4 10130.0    30.2 10229.0
GR  34.1 10249.0    36.2 10290.0    39.3 10310.0    40.2 10331.0    42.1 10349.0
GR  43.4 10370.0    49.3 10390.0    53.3 10409.0    61.4 10428.0    68.2 10479.0
GR  69.6 10493.0    68.4 10519.0    68.2 10539.0    68.2 10544.0    68.2 10604.0
GR  73.2 13604.0    93.2 13606.0
X1203.83     28.   10109   10539    3009    3009    3009
X3    10
GR  91.6  6983.0    71.6  6985.0    66.6  9985.0    66.6 10010.0    66.6 10036.0
GR  66.6 10056.0    67.5 10085.0    66.6 10109.0    61.3 10154.0    56.7 10167.0
GR  47.0 10208.0    38.8 10248.0    36.9 10270.0    33.7 10290.0    31.8 10309.0
GR  21.4 10351.0    16.7 10370.0    13.7 10391.0    16.1 10411.0    22.1 10429.0
GR  25.7 10451.0    45.1 10469.0    61.5 10492.0    72.8 10539.0    73.6 10600.0
GR  73.9 10650.0    78.9 13650.0    98.9 13652.0
X1204.02     36. 10051.3 10563.4    1003    1003    1003
X3    10
GR  95.3  6928.7    75.3  6930.7    70.3  9930.7    70.3  9965.5    70.3  9990.3
GR  70.3 10010.1    70.3 10035.9    70.3 10051.3    68.6 10055.3    61.3 10124.5
GR  55.7 10141.0    51.9 10161.0    40.0 10179.1    35.2 10199.1    34.0 10219.9
GR  33.9 10240.8    32.0 10281.1    31.9 10320.3    34.1 10340.1    40.8 10360.4
GR  40.8 10380.2    44.9 10420.4    48.8 10438.7    49.9 10460.0    52.1 10479.3
GR  56.1 10501.1    60.9 10520.4    61.5 10520.9    71.3 10560.4    71.6 10563.4
GR  72.3 10601.1    71.6 10650.8    71.6 10675.6    71.6 10700.5    76.6 13700.5
GR  96.6 13702.5
X1204.20     31.   10036   10578     950     950     950
X3    10
GR  93.8  6945.0    73.8  6947.0    68.8  9947.0    69.5  9973.0    70.5  9998.0
GR  70.5 10021.0    68.3 10036.0    61.6 10212.0    56.2 10229.0    53.0 10248.0
GR  46.0 10268.0    44.0 10289.0    31.9 10350.0    22.3 10389.0    20.0 10410.0
GR  19.0 10430.0    19.0 10470.0    20.2 10490.0    26.9 10510.0    43.2 10529.0
GR  52.1 10549.0    61.8 10567.0    70.8 10578.0    71.0 10588.0    70.8 10598.0
GR  70.8 10623.0    70.8 10673.0    70.8 10698.0    71.5 10723.0    76.5 13723.0
GR  96.5 13725.0
X1204.77     32.   10058   10593    3009    3009    3009
X3    10
GR  97.4  6945.0    77.4  6947.0    72.4  9947.0    72.0  9973.0    72.6  9999.0
GR  71.8 10058.0    61.8 10070.0    58.2 10079.0    52.0 10099.0    42.9 10119.0
GR  37.0 10139.0    34.0 10158.0    33.9 10199.0    35.1 10218.0    34.9 10279.0
GR  36.1 10299.0    38.1 10318.0    38.0 10340.0    39.9 10360.0    43.1 10380.0
GR  45.1 10400.0    46.0 10420.0    48.0 10439.0    52.0 10460.0    62.0 10492.0
GR  67.8 10585.0    67.8 10593.0    67.8 10602.0    67.8 10659.0    67.8 10685.0
GR  72.8 13685.0    92.8 13687.0
X1204.96     32.   10084   10590    1003    1003    1003
X3    10
GR  96.2  6948.0    76.2  6950.0    71.2  9950.0    71.2  9974.0    71.2 10024.0
GR  71.2 10084.0    61.7 10105.0    46.9 10130.0    40.9 10150.0    33.9 10170.0
GR  32.0 10190.0    30.0 10230.0    33.1 10250.0    35.0 10270.0    36.1 10291.0
GR  36.0 10311.0    39.0 10329.0    40.2 10350.0    40.0 10370.0    42.0 10411.0
GR  44.9 10430.0    48.1 10489.0    54.0 10529.0    59.1 10550.0    62.0 10558.0
GR  67.4 10590.0    67.4 10604.0    67.4 10629.0    67.4 10645.0    67.4 10691.0
GR  72.4 13691.0    92.4 13693.0
```

1018

Subsegment 080101
Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

```
X1205.45     32.   10086   10620    2587    2587    2587
X3    10
GR  99.5  6949.0    79.5  6951.0    74.5  9951.0    73.9 10025.0    72.8 10049.0
GR  70.3 10086.0    64.8 10101.0    55.9 10131.0    53.0 10150.0    39.9 10169.0
GR  38.9 10190.0    39.9 10210.0    38.9 10230.0    38.9 10250.0    37.9 10271.0
GR  37.8 10291.0    35.9 10330.0    36.9 10351.0    38.9 10370.0    38.7 10410.0
GR  39.8 10430.0    43.9 10469.0    51.8 10490.0    56.8 10510.0    58.9 10530.0
GR  61.8 10539.0    68.2 10620.0    68.2 10671.0    68.2 10696.0    68.2 10719.0
GR  73.2 13719.0    93.2 13721.0
X1205.64     37.   10074   10628    1003    1003    1003
X3    10
GR  96.8  9821.0    76.8  9823.0    71.8  9923.0    72.6  9973.0    72.5  9999.0
GR  72.8 10024.0    72.7 10048.0    71.8 10074.0    62.1 10104.0    59.2 10119.0
GR  56.0 10139.0    49.9 10159.0    41.9 10179.0    38.0 10200.0    36.9 10219.0
GR  34.9 10239.0    35.0 10279.0    36.2 10299.0    36.0 10318.0    37.3 10338.0
GR  36.0 10359.0    36.0 10379.0    38.0 10420.0    40.0 10439.0    40.0 10460.0
GR  40.9 10479.0    42.9 10499.0    43.7 10520.0    52.8 10558.0    60.1 10581.0
GR  62.0 10589.0    68.9 10628.0    68.9 10651.0    68.9 10674.0    69.4 10699.0
GR  74.4 13699.0    94.4 13701.0
X1205.83     41.   10054   10585    1003    1003    1003
X3    10
GR 116.6  9851.0    96.6  9853.0    91.6  9953.0    79.1  9998.0    78.9 10017.0
GR  73.2 10040.0    71.2 10054.0    67.4 10070.0    61.5 10086.0    55.1 10100.0
GR  49.9 10119.0    46.1 10139.0    48.0 10175.0    48.0 10196.0    49.0 10212.0
GR  45.7 10232.0    42.1 10249.0    39.0 10267.0    36.9 10285.0    36.9 10303.0
GR  34.9 10323.0    35.9 10340.0    35.0 10360.0    35.9 10378.0    33.8 10416.0
GR  33.6 10434.0    34.9 10453.0    33.9 10471.0    35.1 10490.0    34.0 10508.0
GR  35.1 10526.0    43.2 10544.0    53.9 10562.0    62.1 10580.0    73.5 10585.0
GR  73.5 10621.0    73.5 10649.0    73.5 10677.0    73.5 10681.0    78.5 13681.0
GR  98.5 13683.0
X1206.34     38.    9985   10600    2693    2693    2693
X3    10
GR  95.3  9843.0    75.3  9845.0    70.3  9945.0    67.5  9958.0    64.7  9985.0
GR  63.5 10012.0    62.4 10020.0    60.8 10079.0    58.9 10099.0    53.1 10119.0
GR  46.0 10139.0    43.0 10159.0    42.2 10179.0    42.2 10199.0    41.0 10220.0
GR  41.0 10240.0    39.9 10260.0    41.2 10279.0    40.0 10302.0    40.9 10319.0
GR  40.1 10339.0    40.0 10379.0    38.9 10400.0    38.8 10420.0    37.9 10439.0
GR  37.8 10479.0    36.7 10499.0    37.8 10519.0    43.7 10540.0    51.9 10560.0
GR  62.1 10572.0    68.3 10585.0    72.2 10600.0    72.2 10625.0    72.2 10649.0
GR  72.2 10674.0    77.2 13674.0    97.2 13676.0
X1206.52     30.    9986   10598     950     950     950
X3    10
GR  95.5  9845.0    75.5  9847.0    70.5  9947.0    67.8  9962.0    64.9  9985.0
GR  64.8  9986.0    63.8 10012.0    62.6 10058.0    53.3 10121.0    45.9 10141.0
GR  42.3 10161.0    40.3 10180.0    40.1 10340.0    39.2 10360.0    39.0 10399.0
GR  38.0 10420.0    38.0 10460.0    36.9 10479.0    36.9 10499.0    38.0 10519.0
GR  45.9 10538.0    61.9 10563.0    66.5 10580.0    71.4 10592.0    72.3 10598.0
GR  72.3 10647.0    72.3 10672.0    72.3 10697.0    77.3 13697.0    97.3 13699.0
X1206.73     30.   10076   10640    1109    1109    1109
X3    10
GR  97.7  9875.0    77.7  9877.0    72.7  9977.0    73.4 10002.0    73.0 10027.0
GR  71.7 10058.0    68.2 10076.0    64.2 10095.0    62.1 10115.0    59.0 10132.0
GR  58.9 10153.0    57.9 10172.0    50.7 10192.0    39.9 10231.0    36.8 10253.0
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Subsegment 080101
Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

```
GR  36.7 10449.0    37.8 10470.0    37.7 10510.0    36.8 10529.0    36.8 10549.0
GR  39.0 10568.0    44.9 10588.0    57.2 10608.0    62.4 10614.0    75.4 10640.0
GR  75.4 10671.0    75.4 10697.0    75.4 10722.0    80.4 13722.0   100.4 13724.0
X1206.92     32.   10051   10667    1003    1003    1003
X3    10
GR  97.5  9898.0    77.5  9900.0    72.5 10000.0    71.8 10025.0    71.8 10051.0
GR  65.0 10082.0    60.2 10120.0    59.3 10135.0    57.3 10179.0    45.2 10220.0
GR  38.5 10238.0    35.5 10259.0    34.5 10280.0    35.6 10299.0    35.4 10339.0
GR  36.7 10359.0    36.5 10418.0    37.4 10440.0    37.2 10518.0    38.3 10538.0
GR  38.2 10558.0    39.1 10578.0    46.0 10598.0    54.2 10617.0    61.2 10630.0
GR  73.8 10667.0    74.3 10697.0    73.8 10722.0    74.0 10747.0    73.8 10772.0
GR  78.8 13772.0    98.8 13774.0
X1207.10     33.   10040   10637     950     950     950
X3    10
GR  96.0  9837.0    76.0  9839.0    71.0  9939.0    71.4  9964.0    71.7 10015.0
GR  71.0 10040.0    65.5 10062.0    62.5 10089.0    60.0 10098.0    58.1 10109.0
GR  57.0 10128.0    57.2 10149.0    59.2 10168.0    58.0 10190.0    48.0 10230.0
GR  47.0 10249.0    39.0 10269.0    37.1 10288.0    36.9 10468.0    37.8 10490.0
GR  38.1 10530.0    37.0 10549.0    42.9 10569.0    48.1 10590.0    58.1 10609.0
GR  62.4 10619.0    66.9 10633.0    75.5 10637.0    75.5 10700.0    75.5 10725.0
GR  75.5 10749.0    80.5 13749.0   100.5 13751.0
X1207.74     45.   10004   10699    3379    3379    3379
X3    10
GR  96.3  9815.0    76.3  9817.0    71.3  9917.0    69.1  9934.0    69.4  9952.0
GR  69.1  9975.0    69.1  9985.0    69.1  9999.0    69.2 10003.0    69.1 10004.0
GR  65.4 10021.0    62.4 10050.0    62.2 10069.0    61.7 10078.0    59.7 10098.0
GR  56.9 10118.0    55.7 10137.0    53.9 10159.0    44.8 10199.0    42.9 10219.0
GR  43.8 10239.0    44.0 10261.0    42.0 10278.0    42.0 10299.0    40.2 10339.0
GR  37.9 10359.0    35.1 10378.0    35.0 10398.0    37.9 10420.0    38.9 10439.0
GR  39.0 10478.0    40.1 10498.0    43.0 10519.0    50.1 10537.0    55.0 10558.0
GR  56.4 10577.0    62.7 10595.0    63.4 10619.0    64.5 10649.0    67.0 10699.0
GR  67.0 10724.0    67.7 10748.0    69.8 10773.0    74.8 13773.0    94.8 13775.0
X1207.94     40.    9999   10702    1056    1056    1056
X3    10
GR  99.7  9797.0    79.7  9799.0    74.7  9899.0    74.5  9924.0    74.8  9974.0
GR  74.4  9999.0    69.7 10024.0    65.5 10053.0    62.3 10068.0    60.0 10081.0
GR  57.1 10100.0    56.1 10121.0    57.2 10139.0    53.0 10161.0    40.9 10201.0
GR  37.1 10222.0    35.0 10241.0    34.1 10261.0    35.2 10281.0    35.1 10340.0
GR  34.0 10361.0    40.0 10401.0    46.2 10461.0    48.9 10481.0    50.0 10502.0
GR  54.0 10521.0    59.6 10541.0    56.0 10561.0    55.1 10582.0    55.1 10601.0
GR  56.2 10622.0    60.2 10642.0    62.6 10650.0    69.7 10676.0    74.5 10702.0
GR  75.2 10726.0    75.9 10777.0    75.6 10801.0    80.6 13801.0   100.6 13803.0
X1208.12     37.   10035   10847     950     950     950
X3    10
GR  98.0  9851.0    78.0  9853.0    73.0  9953.0    72.6 10003.0    72.0 10035.0
GR  60.1 10083.0    56.2 10102.0    54.1 10121.0    54.1 10181.0    56.1 10201.0
GR  56.0 10222.0    55.0 10241.0    53.0 10261.0    45.0 10281.0    42.0 10302.0
GR  40.3 10320.0    39.1 10340.0    39.1 10439.0    41.1 10480.0    44.0 10501.0
GR  47.9 10540.0    51.2 10599.0    53.1 10620.0    53.9 10640.0    54.0 10660.0
GR  56.2 10699.0    57.0 10719.0    58.9 10738.0    62.3 10756.0    67.9 10772.0
GR  73.3 10797.0    76.8 10823.0    79.1 10847.0    79.1 10873.0    79.1 10898.0
GR  84.1 13898.0   104.1 13900.0
X1208.30     55.   10498   10970     950     950     950
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1020

Subsegment 080101
Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

```
X3    10
GR  98.2  9818.0    78.2  9820.0    73.2  9920.0    72.5  9970.0    72.4 10122.0
GR  71.9 10139.0    70.4 10155.0    63.5 10178.0    58.4 10213.0    58.4 10240.0
GR  58.4 10290.0    58.4 10339.0    58.4 10390.0    58.4 10439.0    58.4 10448.0
GR  58.4 10476.0    58.4 10498.0    57.6 10512.0    52.0 10569.0    49.8 10579.0
GR  46.8 10590.0    45.1 10599.0    45.1 10609.0    43.8 10618.0    44.0 10639.0
GR  43.0 10648.0    43.0 10659.0    41.9 10669.0    42.2 10678.0    40.0 10689.0
GR  39.0 10699.0    39.0 10719.0    38.1 10728.0    38.0 10749.0    37.1 10758.0
GR  37.1 10780.0    36.0 10789.0    36.1 10800.0    34.9 10809.0    37.1 10831.0
GR  39.0 10839.0    38.9 10849.0    41.1 10859.0    43.9 10869.0    44.0 10879.0
GR  52.7 10903.0    57.3 10918.0    59.5 10970.0    71.8 11039.0    72.1 11088.0
GR  72.8 11097.0    72.8 11149.0    72.3 11199.0    77.3 14199.0    97.3 14201.0
X1208.50     49.   10500   10881    1056    1056    1056
X3    10
GR  96.5  9648.0    76.5  9650.0    71.5  9750.0    72.1  9799.0    71.9  9852.0
GR  72.5  9900.0    69.4  9945.0    59.0 10000.0    58.4 10023.0    58.4 10073.0
GR  58.4 10170.0    58.4 10220.0    58.4 10270.0    58.4 10320.0    58.4 10352.0
GR  58.4 10365.0    58.4 10400.0    58.4 10411.0    58.4 10500.0    56.9 10538.0
GR  52.5 10547.0    49.0 10560.0    46.0 10570.0    44.0 10581.0    40.7 10591.0
GR  36.9 10620.0    37.0 10632.0    36.0 10641.0    35.9 10672.0    34.9 10681.0
GR  35.9 10691.0    35.8 10702.0    35.0 10711.0    35.1 10724.0    35.9 10731.0
GR  35.9 10762.0    36.8 10770.0    36.7 10792.0    40.9 10831.0    52.7 10844.0
GR  57.0 10856.0    60.5 10881.0    61.1 10934.0    62.5 11034.0    63.2 11099.0
GR  67.2 11161.0    71.0 11229.0    76.0 14229.0    96.0 14231.0
X1208.70     41.   10411   10776    1056    1056    1056
X3    10
GR  80.1  9746.0    60.1  9748.0    59.1  9848.0    59.1  9898.0    59.1  9949.0
GR  59.1  9999.0    59.1 10049.0    59.1 10125.0    59.1 10149.0    59.1 10201.0
GR  59.1 10250.0    59.5 10301.0    59.1 10368.0    59.1 10411.0    58.5 10416.0
GR  52.8 10438.0    49.0 10460.0    46.0 10471.0    44.1 10480.0    43.1 10491.0
GR  43.1 10500.0    42.0 10510.0    42.0 10520.0    40.0 10540.0    40.0 10551.0
GR  39.0 10560.0    36.0 10608.0    36.0 10621.0    35.0 10630.0    35.0 10661.0
GR  34.0 10670.0    34.0 10691.0    36.7 10720.0    41.0 10740.0    49.9 10759.0
GR  52.5 10772.0    55.0 10776.0    59.6 10900.0    60.9 10951.0    61.9 13951.0
GR  81.9 13953.0
X1208.90     34.   10440   10794    1056    1056    1056
X3    10
GR  81.7  9697.0    61.7  9699.0    60.7  9799.0    60.7  9850.0    60.7  9899.0
GR  60.7  9950.0    60.7 10000.0    60.7 10078.0    60.7 10150.0    60.7 10250.0
GR  60.7 10300.0    60.7 10350.0    60.7 10399.0    60.7 10415.0    60.7 10440.0
GR  54.9 10445.0    50.1 10470.0    40.1 10499.0    38.9 10511.0    38.9 10601.0
GR  38.0 10610.0    37.9 10730.0    40.1 10741.0    45.9 10760.0    51.4 10777.0
GR  55.8 10794.0    55.9 10805.0    55.8 10822.0    55.8 10836.0    55.8 10869.0
GR  55.8 10901.0    55.8 11001.0    56.8 14001.0    76.8 14003.0
X1209.15     40.   10435   10727    1320    1320    1320
X3    10
GR  79.5  9682.0    59.5  9684.0    58.5  9784.0    58.5  9799.0    58.5  9849.0
GR  58.5  9949.0    58.5  9977.0    58.5  9998.0    58.5 10089.0    58.9 10098.0
GR  58.5 10105.0    58.5 10150.0    58.5 10199.0    58.5 10248.0    58.5 10301.0
GR  58.5 10350.0    58.5 10399.0    58.5 10435.0    57.1 10441.0    52.6 10455.0
GR  42.0 10470.0    39.0 10480.0    36.0 10509.0    36.1 10520.0    35.0 10531.0
GR  35.1 10591.0    36.3 10613.0    37.0 10620.0    37.1 10649.0    38.8 10669.0
GR  49.0 10701.0    52.9 10713.0    54.4 10714.0    56.3 10727.0    56.3 10776.0
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Subsegment 080101
Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

```
GR  56.3 10830.0    57.1 10877.0    56.3 10928.0    57.3 13928.0    77.3 13930.0
X1209.57     39.   10440   10756    2217    2217    2217
X3    10
GR  80.4  9698.0    60.4  9700.0    59.4  9800.0    58.4  9848.0    60.8  9881.0
GR  61.5  9899.0    60.5  9919.0    61.8  9998.0    61.1 10050.0    59.6 10099.0
GR  59.2 10149.0    60.8 10249.0    60.0 10314.0    58.3 10405.0    58.0 10440.0
GR  56.7 10450.0    54.4 10452.0    40.1 10480.0    36.2 10490.0    35.1 10500.0
GR  35.1 10511.0    36.4 10520.0    36.3 10570.0    38.2 10600.0    39.3 10610.0
GR  39.3 10630.0    40.2 10641.0    40.1 10661.0    42.1 10680.0    51.2 10710.0
GR  53.9 10726.0    56.7 10741.0    58.1 10756.0    58.1 10791.0    58.1 10841.0
GR  58.1 10925.0    58.1 10959.0    59.1 13959.0    79.1 13961.0
X1209.78     51.   10346   10692    1108    1108    1108
X3    10
GR  99.5  9641.0    79.5  9643.0    78.5  9743.0    81.3  9749.0    88.3  9769.0
GR  88.7  9777.0    88.5  9782.0    85.1  9790.0    73.0  9829.0    65.0  9851.0
GR  64.5  9853.0    62.4  9880.0    59.9  9889.0    57.5  9949.0    57.5  9999.0
GR  57.5 10048.0    57.5 10098.0    57.5 10104.0    57.5 10154.0    57.5 10162.0
GR  57.5 10166.0    57.5 10167.0    57.6 10199.0    58.7 10249.0    57.9 10344.0
GR  57.5 10346.0    52.7 10353.0    39.0 10399.0    39.0 10410.0    37.1 10429.0
GR  37.1 10440.0    36.1 10450.0    36.0 10461.0    35.1 10471.0    35.1 10490.0
GR  34.1 10500.0    34.1 10530.0    38.1 10570.0    38.1 10580.0    40.0 10599.0
GR  40.1 10610.0    48.0 10650.0    54.3 10678.0    59.2 10692.0    59.2 10723.0
GR  59.2 10772.0    59.2 10793.0    59.2 10869.0    59.2 10892.0    60.2 13892.0
GR  80.2 13894.0
X1210.00     46.   10050   10363    1000    1100    1161
X3    10
GR  79.8  8545.0    59.8  8550.0    58.8  9849.0    58.8  9899.0    58.8  9949.0
GR  58.8 10000.0    58.8 10027.0    59.0 10036.0    58.8 10050.0    42.9 10069.0
GR  36.8 10090.0    36.9 10100.0    35.1 10119.0    35.1 10161.0    36.1 10170.0
GR  36.1 10191.0    35.1 10199.0    37.1 10210.0    38.0 10222.0    38.0 10241.0
GR  40.1 10258.0    40.2 10269.0    45.0 10289.0    49.1 10300.0    52.7 10318.0
GR  55.6 10348.0    55.9 10360.0    55.7 10363.0    55.7 10374.0    55.7 10410.0
GR  55.7 10420.0    55.7 10448.0    55.7 10499.0    55.7 10575.0    55.7 10603.0
GR  55.7 10649.0    55.7 10695.0    55.7 10699.0    57.9 10710.0    58.6 10727.0
GR  58.0 10743.0    60.8 10753.0    56.5 10905.0    56.6 10933.0    57.6 13933.0
GR  77.6 13935.0
X1210.10     34.   10088   10409     500     450     528
X3    10
GR  79.9  8088.0    59.9  8090.0    58.9  9850.0    60.4  9950.0    59.5  9966.0
GR  56.5  9985.0    55.6 10000.0    56.0 10020.0    55.1 10088.0    52.5 10104.0
GR  52.1 10109.0    42.9 10130.0    40.9 10139.0    39.8 10150.0    37.9 10160.0
GR  39.0 10170.0    43.1 10180.0    45.0 10190.0    44.9 10200.0    41.0 10240.0
GR  41.0 10250.0    34.0 10320.0    34.1 10330.0    36.0 10350.0    36.0 10359.0
GR  52.6 10397.0    55.7 10400.0    58.6 10409.0    58.6 10510.0    58.6 10557.0
GR  58.6 10611.0    58.6 10639.0    59.6 13639.0    79.6 13641.0
X1210.30     31.   10282   10561     500    1000    1056
X3    10
GR  78.3  7782.0    58.3  7785.0    57.3  9999.0    57.3 10099.0    57.3 10149.0
GR  57.3 10199.0    57.3 10250.0    57.3 10282.0    56.4 10299.0    52.6 10327.0
GR  44.6 10348.0    42.9 10358.0    41.8 10369.0    42.0 10381.0    39.9 10388.0
GR  38.9 10399.0    34.9 10419.0    33.8 10428.0    30.6 10448.0    30.9 10460.0
GR  31.9 10468.0    29.8 10490.0    31.9 10509.0    40.0 10549.0    58.5 10561.0
GR  59.2 10569.0    58.8 10599.0    58.5 10619.0    58.5 10769.0    59.5 13769.0
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Subsegment 080101
Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

```
GR  79.5 13771.0
X1210.50     39.   10252   10582     400     750    1056
X3    10
GR  80.3  8452.0    60.3  8455.0    59.3 10049.0    59.3 10098.0    59.3 10149.0
GR  59.3 10198.0    59.3 10252.0    57.4 10259.0    52.8 10266.0    46.0 10279.0
GR  40.1 10288.0    34.2 10318.0    33.2 10329.0    33.0 10339.0    31.0 10359.0
GR  34.2 10369.0    35.1 10378.0    37.1 10389.0    38.1 10398.0    38.0 10408.0
GR  39.1 10419.0    41.2 10428.0    42.1 10439.0    44.0 10448.0    44.2 10458.0
GR  47.0 10489.0    47.1 10499.0    48.2 10508.0    48.2 10519.0    52.8 10552.0
GR  54.6 10561.0    56.4 10573.0    58.7 10582.0    58.7 10634.0    58.7 10683.0
GR  58.7 10732.0    58.7 10783.0    59.7 13783.0    79.7 13785.0
X1210.70     29.   10263   10523     900     400    1056
X3    10
GR  82.2  8863.0    62.2  8865.0    61.2 10043.0    61.3 10099.0    61.2 10263.0
GR  45.4 10279.0    30.8 10320.0    29.8 10330.0    27.7 10340.0    26.7 10350.0
GR  26.7 10369.0    27.6 10379.0    27.6 10390.0    29.8 10400.0    32.7 10411.0
GR  35.8 10420.0    39.9 10440.0    40.8 10450.0    44.8 10470.0    44.9 10480.0
GR  46.8 10490.0    52.4 10506.0    57.1 10523.0    58.1 10573.0    57.7 10624.0
GR  57.2 10674.0    57.5 10724.0    58.5 13724.0    78.5 13726.0
X1210.90     39.   10556   10907     700     100    1056
X3    10
GR  79.1  8056.0    59.1  8060.0    58.1 10300.0    57.9 10350.0    57.6 10400.0
GR  57.6 10453.0    57.6 10487.0    57.6 10500.0    57.6 10545.0    57.6 10556.0
GR  52.5 10580.0    51.0 10590.0    47.9 10600.0    45.9 10609.0    45.0 10620.0
GR  45.0 10660.0    43.7 10671.0    43.9 10690.0    42.8 10700.0    43.0 10710.0
GR  39.8 10740.0    37.9 10751.0    37.8 10761.0    37.0 10771.0    36.8 10791.0
GR  35.9 10800.0    35.9 10812.0    33.9 10830.0    34.8 10840.0    36.9 10852.0
GR  39.8 10861.0    46.8 10875.0    55.7 10901.0    58.6 10907.0    58.8 10954.0
GR  58.6 10999.0    58.6 11110.0    59.6 14110.0    79.6 14112.0
X1211.11     40.   10437   10844     300    1100    1108
X3    10
GR  80.9  7937.0    60.9  7945.0    59.9 10200.0    59.9 10250.0    59.9 10298.0
GR  59.9 10437.0    57.2 10441.0    52.7 10457.0    47.0 10469.0    37.0 10499.0
GR  34.9 10519.0    34.8 10529.0    35.0 10550.0    36.0 10560.0    35.9 10570.0
GR  36.8 10580.0    35.8 10590.0    36.8 10599.0    38.7 10608.0    39.7 10618.0
GR  39.8 10649.0    40.9 10659.0    43.0 10669.0    43.0 10679.0    45.0 10688.0
GR  47.9 10718.0    46.9 10729.0    44.9 10739.0    43.1 10758.0    43.1 10768.0
GR  45.0 10788.0    55.5 10823.0    57.8 10839.0    58.8 10844.0    58.8 10864.0
GR  58.9 10877.0    59.8 10923.0    59.5 11049.0    60.5 14049.0    80.5 14051.0
X1211.32     38. 10271.0 10537.7     500     500    1108
X3    10
GR  81.8  8471.1    61.8  8475.1    60.8  9615.1    60.8  9715.2    60.8  9765.0
GR  60.8  9814.9    60.8  9865.1    60.8  9915.4    60.8  9965.3    60.8 10066.9
GR  60.8 10271.0    47.0 10290.3    37.8 10300.8    34.0 10310.0    32.9 10320.5
GR  26.1 10330.9    25.0 10340.5    25.0 10350.9    26.0 10361.8    25.0 10370.8
GR  27.0 10391.1    29.0 10400.5    29.9 10410.9    36.1 10439.9    37.9 10460.2
GR  40.0 10470.0    44.1 10479.7    50.1 10499.7    52.6 10511.5    56.4 10537.7
GR  57.3 10587.4    57.4 10612.3    59.1 10630.7    59.3 10637.1    58.3 10688.5
GR  58.4 10738.3    59.4 13738.3    79.4 13740.3
X1211.74     38.   10282   10596    2000    1800    2217
X3    10
GR  80.5  7782.0    60.5  7790.0    59.5 10069.0    59.5 10099.0    59.5 10149.0
GR  59.5 10199.0    60.6 10250.0    59.5 10282.0    57.9 10290.0    52.6 10300.0
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GR  50.2 10311.0    48.1 10330.0    46.1 10340.0    46.1 10350.0    44.0 10361.0
GR  44.1 10390.0    42.0 10400.0    41.1 10410.0    41.1 10419.0    40.0 10430.0
GR  38.1 10440.0    38.1 10450.0    36.0 10459.0    34.2 10479.0    34.0 10490.0
GR  35.1 10499.0    31.9 10510.0    30.0 10520.0    30.1 10530.0    33.1 10541.0
GR  35.1 10550.0    53.0 10586.0    60.6 10596.0    61.2 10650.0    60.6 10749.0
GR  60.6 10797.0    61.6 13797.0    81.6 13799.0
X1211.95     38.   10422   10785     400    1100    1108
X3    10
GR  79.7  8220.0    59.7  8225.0    58.7 10199.0    58.8 10250.0    59.6 10349.0
GR  59.3 10390.0    59.8 10400.0    58.7 10422.0    56.4 10445.0    52.1 10479.0
GR  52.1 10490.0    51.0 10499.0    51.2 10509.0    48.9 10530.0    49.1 10540.0
GR  46.0 10569.0    46.1 10589.0    44.0 10610.0    42.0 10620.0    40.9 10629.0
GR  37.9 10640.0    33.9 10660.0    30.8 10669.0    28.8 10680.0    27.7 10690.0
GR  29.0 10700.0    28.8 10711.0    31.0 10729.0    34.0 10739.0    35.9 10748.0
GR  43.3 10760.0    52.7 10781.0    60.6 10785.0    61.2 10799.0    61.7 10849.0
GR  60.6 10991.0    61.6 13991.0    81.6 13993.0
X1212.16     35.   10435   10738     200     500    1108
X3    10
GR  82.4  9135.0    62.4  9140.0    61.4  9799.0    61.4  9949.0    61.4  9999.0
GR  62.5 10038.0    61.4 10049.0    61.4 10099.0    61.4 10148.0    61.4 10200.0
GR  61.4 10228.0    61.5 10248.0    61.7 10430.0    61.4 10435.0    38.9 10460.0
GR  26.9 10490.0    27.0 10501.0    28.9 10519.0    31.0 10530.0    31.0 10540.0
GR  35.0 10580.0    40.9 10599.0    42.0 10610.0    41.9 10620.0    44.0 10639.0
GR  46.9 10650.0    55.4 10687.0    57.6 10700.0    58.7 10738.0    58.7 10757.0
GR  58.7 10799.0    58.7 10849.0    58.7 10950.0    59.7 13950.0    79.7 13952.0
X1212.37     33.   10299   10600     600     300    1108
X3    10
GR  97.2  9899.0    77.2  9900.0    76.2 10131.0    71.5 10145.0    65.3 10198.0
GR  61.3 10221.0    61.3 10241.0    61.3 10299.0    58.1 10304.0    55.5 10314.0
GR  40.8 10330.0    35.0 10349.0    32.9 10360.0    32.9 10389.0    33.9 10399.0
GR  35.9 10409.0    39.0 10440.0    39.0 10450.0    40.9 10459.0    40.9 10470.0
GR  42.0 10480.0    41.9 10490.0    40.9 10499.0    41.9 10508.0    42.0 10519.0
GR  43.9 10539.0    54.8 10588.0    58.5 10595.0    59.2 10600.0    59.7 10698.0
GR  59.2 10798.0    60.2 13798.0    80.2 13800.0
X1212.58     47.   10424   10750    1250     500    1108
X3    10
GR  80.0  9824.0    60.0  9845.0    59.0  9850.0    59.0  9869.0    59.0  9879.0
GR  60.4  9901.0    59.0  9909.0    59.0  9949.0    59.0  9999.0    59.0 10049.0
GR  59.0 10099.0    59.0 10149.0    59.0 10204.0    59.0 10263.0    61.2 10272.0
GR  60.0 10299.0    62.1 10349.0    61.1 10373.0    59.0 10392.0    59.0 10400.0
GR  59.4 10419.0    59.0 10424.0    47.0 10449.0    43.0 10459.0    42.0 10469.0
GR  42.0 10489.0    40.1 10511.0    40.1 10539.0    39.1 10549.0    39.3 10560.0
GR  41.2 10580.0    39.9 10589.0    40.0 10609.0    39.0 10619.0    38.7 10660.0
GR  36.9 10680.0    36.8 10689.0    42.0 10699.0    45.0 10710.0    49.0 10720.0
GR  52.7 10737.0    60.9 10750.0    60.9 10800.0    61.3 10851.0    60.9 10901.0
GR  61.9 13901.0    81.9 13903.0
X1212.79     39.   10449   10684     300     150    1108
X3    10
GR  80.7  8749.0    60.7  8755.0    59.7  9849.0    59.7  9899.0    59.7  9948.0
GR  59.7  9963.0    59.7  9999.0    59.7 10048.0    59.7 10149.0    59.7 10178.0
GR  59.7 10188.0    59.7 10249.0    59.7 10299.0    59.7 10339.0    59.7 10398.0
GR  59.7 10434.0    59.7 10449.0    58.3 10456.0    41.9 10489.0    36.2 10518.0
GR  35.1 10529.0    33.0 10539.0    32.9 10549.0    32.0 10560.0    28.0 10579.0
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```
GR  28.0 10588.0    27.1 10599.0    27.1 10620.0    27.9 10630.0    30.0 10640.0
GR  34.9 10650.0    46.6 10658.0    52.6 10674.0    61.4 10684.0    61.4 10739.0
GR  61.4 10789.0    61.4 10889.0    62.4 13889.0    82.4 13891.0
X1213.00     53.   10429   10769     700    1000    1108
X3    10
GR  80.2  8629.0    60.2  8635.0    59.2  9800.0    59.2  9811.0    59.2  9818.0
GR  59.2  9830.0    59.2  9836.0    59.2  9844.0    59.2  9852.0    59.2  9900.0
GR  59.2  9919.0    59.2  9968.0    60.6  9989.0    59.2 10000.0    59.2 10025.0
GR  59.2 10043.0    59.2 10050.0    59.2 10100.0    59.2 10112.0    59.2 10131.0
GR  59.2 10244.0    59.2 10300.0    60.2 10399.0    59.2 10429.0    58.1 10433.0
GR  56.2 10462.0    52.3 10470.0    50.7 10490.0    50.9 10511.0    49.9 10521.0
GR  49.8 10541.0    46.7 10572.0    46.9 10581.0    44.8 10601.0    43.0 10611.0
GR  36.7 10631.0    28.5 10649.0    24.6 10669.0    22.7 10689.0    23.7 10701.0
GR  25.6 10710.0    28.6 10720.0    33.9 10730.0    37.6 10741.0    49.7 10756.0
GR  52.2 10759.0    55.4 10765.0    60.4 10769.0    60.4 10818.0    60.4 10901.0
GR  60.4 10969.0    61.4 13969.0    81.4 13971.0
X1213.20     55. 10448.7 10831.3     400     700    1056
X3    10
GR  82.7  8948.0    62.7  8955.0    61.7  9800.0    61.7  9938.7    61.7  9989.3
GR  63.9 10000.1    61.7 10023.7    61.7 10049.7    61.7 10099.9    61.7 10175.0
GR  61.7 10183.3    61.7 10212.6    61.7 10223.7    61.7 10236.1    61.7 10241.0
GR  61.7 10266.4    61.7 10273.7    61.7 10300.1    61.7 10320.4    61.7 10369.6
GR  61.9 10448.2    61.7 10448.7    54.4 10469.4    52.8 10469.5    49.9 10481.5
GR  43.3 10489.7    41.0 10511.7    36.0 10520.9    38.1 10529.7    36.9 10539.7
GR  37.0 10551.2    35.9 10559.7    37.9 10580.5    42.0 10600.2    42.0 10608.6
GR  43.2 10620.0    43.2 10632.0    45.1 10650.3    45.1 10660.2    46.2 10669.6
GR  46.0 10689.5    47.0 10700.4    47.2 10719.8    46.1 10727.3    47.0 10738.7
GR  47.2 10749.7    45.8 10759.2    50.1 10800.3    54.6 10827.9    56.3 10831.3
GR  57.2 10882.5    57.3 10980.0    58.3 11031.1    59.3 14031.1    79.3 14033.1
X1213.40     35.   10257   10566     450     200    1056
X3    10
GR  92.2  9857.0    72.2  9865.0    71.2 10031.0    68.2 10044.0    64.5 10100.0
GR  63.6 10151.0    61.5 10175.0    60.8 10225.0    60.8 10250.0    60.8 10257.0
GR  54.5 10269.0    52.3 10272.0    39.8 10297.0    31.0 10311.0    29.1 10322.0
GR  29.0 10331.0    31.2 10351.0    35.0 10370.0    40.1 10422.0    40.1 10431.0
GR  44.0 10471.0    44.0 10481.0    45.1 10491.0    45.2 10501.0    48.2 10532.0
GR  55.2 10556.0    58.7 10560.0    59.7 10566.0    60.5 10616.0    59.7 10656.0
GR  59.7 10667.0    59.7 10716.0    59.7 10767.0    60.7 13767.0    80.7 13769.0
X1213.60     32.   10170   10479    1056    1056    1056
X3    10
GR  98.0  9945.0    78.0  9947.0    77.0 10047.0    70.5 10069.0    68.8 10103.0
GR  62.9 10119.0    58.5 10170.0    52.6 10181.0    43.8 10201.0    40.0 10211.0
GR  37.9 10221.0    34.9 10229.0    34.9 10239.0    37.3 10261.0    37.1 10300.0
GR  38.0 10310.0    37.9 10350.0    39.0 10359.0    39.2 10410.0    42.1 10420.0
GR  44.1 10430.0    48.2 10440.0    51.1 10450.0    52.6 10460.0    59.9 10471.0
GR  60.7 10479.0    61.4 10500.0    61.5 10549.0    60.7 10649.0    60.7 10698.0
GR  61.7 13698.0    81.7 13700.0
X1213.80     39.   10206   10515    1056    1056    1056
X3    10
GR  94.9  9909.0    74.9  9911.0    73.9 10011.0    66.9 10029.0    64.6 10055.0
GR  62.5 10065.0    62.6 10088.0    67.3 10101.0    61.4 10117.0    61.4 10206.0
GR  55.5 10215.0    52.3 10220.0    48.0 10230.0    44.6 10241.0    40.9 10251.0
GR  40.0 10259.0    40.0 10270.0    37.9 10281.0    39.3 10292.0    38.9 10311.0
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```
GR  37.0 10320.0    37.9 10330.0    38.0 10353.0    38.9 10361.0    38.9 10411.0
GR  39.8 10421.0    38.0 10440.0    40.1 10461.0    42.0 10470.0    46.2 10479.0
GR  50.0 10491.0    57.2 10511.0    59.4 10515.0    62.4 10576.0    62.6 10601.0
GR  62.4 10650.0    61.8 10726.0    62.8 13726.0    82.8 13728.0
X1214.00     35.   10258   10559    1056    1056    1056
X3    10
GR  94.1  9932.0    74.1  9934.0    73.1 10034.0    69.2 10043.0    66.6 10077.0
GR  65.1 10107.0    62.2 10120.0    61.6 10134.0    62.0 10149.0    62.5 10204.0
GR  61.5 10258.0    56.7 10264.0    52.5 10274.0    46.7 10289.0    44.1 10299.0
GR  39.9 10310.0    38.0 10320.0    37.0 10329.0    37.0 10340.0    38.0 10349.0
GR  36.9 10359.0    36.9 10389.0    37.9 10399.0    36.9 10409.0    37.0 10500.0
GR  39.0 10509.0    52.6 10540.0    56.2 10552.0    59.6 10559.0    60.7 10570.0
GR  62.4 10620.0    60.4 10720.0    59.6 10771.0    60.6 13771.0    80.6 13773.0
X1214.20     39. 10277.4 10570.6    1056    1056    1056
X3    10
GR  95.9  9941.8    75.9  9943.8    74.9 10043.8    70.3 10054.9    65.6 10099.9
GR  61.6 10112.5    61.6 10128.0    61.6 10148.9    61.6 10170.9    61.6 10184.9
GR  61.6 10188.9    61.6 10193.4    61.6 10245.6    61.7 10249.5    61.6 10277.4
GR  60.1 10285.4    41.8 10321.0    39.2 10330.0    36.9 10340.6    37.0 10440.2
GR  36.2 10451.2    36.2 10471.1    34.9 10480.6    35.1 10492.6    36.3 10500.5
GR  40.0 10520.8    52.7 10549.3    55.5 10551.2    54.7 10567.6    58.4 10570.5
GR  58.3 10570.6    59.7 10581.9    62.9 10631.1    61.7 10652.1    61.7 10681.0
GR  60.4 10730.9    60.1 10782.2    61.1 13782.2    81.1 13784.2
X1214.40     32.   10191   10456    1056    1056    1056
X3    10
GR  97.3  9928.0    77.3  9930.0    76.3 10030.0    69.7 10043.0    66.0 10100.0
GR  61.7 10119.0    62.2 10150.0    60.9 10185.0    60.2 10191.0    58.6 10196.0
GR  52.8 10200.0    40.9 10220.0    39.0 10230.0    35.8 10240.0    33.9 10260.0
GR  33.9 10279.0    35.0 10290.0    34.9 10300.0    36.2 10310.0    35.9 10370.0
GR  34.8 10379.0    37.1 10390.0    38.3 10401.0    39.9 10410.0    52.6 10446.0
GR  57.1 10456.0    58.4 10506.0    61.3 10555.0    62.6 10605.0    61.2 10656.0
GR  62.2 13656.0    82.2 13658.0
X1214.60     34.   10162   10465    1056    1056    1056
X3    10
GR  96.3  9913.0    76.3  9915.0    75.3 10015.0    67.5 10039.0    64.3 10099.0
GR  62.3 10110.0    62.2 10135.0    60.7 10162.0    57.1 10180.0    52.5 10196.0
GR  44.9 10210.0    42.0 10219.0    38.1 10260.0    38.0 10290.0    36.8 10300.0
GR  37.0 10311.0    35.9 10320.0    36.1 10340.0    35.0 10350.0    35.0 10361.0
GR  36.1 10370.0    35.9 10400.0    38.2 10410.0    41.2 10420.0    45.1 10436.0
GR  52.8 10445.0    56.4 10455.0    58.6 10460.0    60.3 10465.0    62.8 10509.0
GR  62.6 10541.0    60.9 10635.0    61.9 13635.0    81.9 13637.0
X1214.80     41.   10477   10788    1056    1056    1056
X3    10
GR  93.3  9927.0    73.3  9929.0    72.3 10029.0    63.7 10050.0    61.6 10090.0
GR  61.6 10117.0    61.6 10150.0    61.6 10200.0    61.6 10249.0    61.6 10301.0
GR  61.6 10350.0    62.8 10449.0    61.6 10477.0    59.8 10485.0    57.8 10489.0
GR  44.2 10520.0    41.2 10529.0    41.3 10541.0    40.0 10549.0    40.3 10560.0
GR  38.9 10569.0    39.0 10600.0    37.9 10610.0    39.1 10622.0    39.0 10671.0
GR  38.1 10681.0    38.1 10690.0    37.0 10699.0    38.0 10710.0    38.1 10721.0
GR  40.2 10731.0    42.2 10750.0    45.2 10765.0    50.9 10775.0    61.6 10788.0
GR  62.1 10794.0    62.8 10844.0    62.5 10894.0    61.6 10994.0    62.6 13994.0
GR  82.6 13996.0
X1215.00     30.   10266   10595    1056    1056    1056
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X3    10
GR  83.5  9947.0    63.5  9949.0    62.5 10049.0    62.5 10099.0    62.5 10133.0
GR  62.5 10150.0    62.5 10184.0    62.5 10266.0    55.6 10270.0    52.8 10278.0
GR  44.0 10289.0    37.1 10300.0    33.0 10320.0    29.2 10328.0    30.1 10339.0
GR  34.0 10359.0    41.0 10429.0    41.0 10439.0    44.2 10469.0    44.0 10490.0
GR  48.1 10520.0    52.8 10540.0    56.0 10563.0    59.8 10595.0    60.8 10649.0
GR  59.8 10709.0    59.8 10749.0    59.8 10799.0    60.8 13799.0    80.8 13801.0
X1215.20     41.   10164   10484    1056    1056    1056
X3    10
GR  88.2  9957.0    68.2  9959.0    67.2 10059.0    64.4 10080.0    64.4 10113.0
GR  64.4 10124.0    64.4 10133.0    64.4 10136.0    64.4 10149.0    64.4 10158.0
GR  64.4 10163.0    64.4 10164.0    62.6 10169.0    57.2 10175.0    53.1 10179.0
GR  46.9 10191.0    44.3 10199.0    47.2 10209.0    40.2 10220.0    39.1 10230.0
GR  39.3 10269.0    38.1 10279.0    40.1 10290.0    41.3 10299.0    38.3 10330.0
GR  38.3 10390.0    39.2 10400.0    38.9 10420.0    41.2 10439.0    50.3 10460.0
GR  52.7 10472.0    57.4 10481.0    62.3 10484.0    62.5 10495.0    62.3 10499.0
GR  62.3 10549.0    62.3 10599.0    62.3 10648.0    62.3 10699.0    63.3 13699.0
GR  83.3 13701.0
X1215.80     33.   10288   10598    3174    3174    3174
X3    10
GR  89.3  9937.0    69.3  9939.0    68.3 10039.0    68.3 10055.0    68.3 10124.0
GR  68.3 10176.0    68.3 10200.0    68.3 10219.0    68.3 10250.0    68.3 10274.0
GR  68.3 10288.0    52.5 10319.0    40.1 10328.0    30.6 10348.0    28.2 10359.0
GR  27.2 10369.0    27.2 10389.0    29.5 10400.0    30.4 10408.0    32.4 10420.0
GR  36.3 10438.0    39.4 10469.0    45.3 10500.0    48.3 10509.0    55.2 10538.0
GR  59.9 10588.0    61.8 10598.0    61.8 10638.0    61.8 10688.0    61.8 10738.0
GR  61.8 10799.0    62.8 13799.0    82.8 13801.0
NC  .040    .040    .025
X1216.40     34.   10205   10545    1700    1200    3168
X3    10
GR  83.6  7017.0    63.6  7019.0    62.6 10019.0    62.6 10050.0    62.6 10099.0
GR  62.7 10150.0    62.9 10199.0    62.6 10205.0    59.6 10226.0    58.6 10230.0
GR  52.5 10239.0    48.9 10251.0    44.9 10271.0    41.9 10299.0    43.0 10310.0
GR  42.1 10319.0    41.9 10349.0    41.0 10360.0    41.0 10390.0    41.9 10400.0
GR  42.1 10410.0    39.9 10429.0    37.9 10439.0    38.1 10489.0    39.9 10500.0
GR  43.9 10510.0    48.9 10521.0    52.6 10531.0    60.8 10545.0    60.8 10651.0
GR  60.8 10700.0    60.8 10751.0    61.8 13751.0    81.8 13753.0
X1216.60     39.   10241   10514     600    1700    1056
X3    10
GR  82.9  7037.0    62.9  7039.0    61.9 10039.0    61.9 10149.0    61.9 10160.0
GR  61.9 10163.0    61.9 10170.0    61.9 10177.0    61.9 10180.0    62.0 10211.0
GR  61.9 10241.0    55.7 10243.0    52.5 10251.0    43.6 10260.0    37.8 10270.0
GR  34.6 10279.0    30.8 10289.0    26.9 10310.0    24.8 10319.0    25.1 10330.0
GR  28.9 10340.0    35.0 10359.0    38.7 10379.0    40.9 10389.0    44.0 10419.0
GR  44.0 10441.0    46.0 10460.0    49.3 10470.0    52.7 10487.0    56.6 10489.0
GR  58.5 10506.0    59.7 10514.0    59.7 10523.0    59.9 10548.0    61.7 10599.0
GR  61.3 10649.0    60.5 10712.0    61.5 13712.0    81.5 13714.0
X1216.80     42.   10390   10662     700     700    1056
X3    10
GR  83.1  7029.0    63.1  7031.0    62.1 10031.0    56.3 10075.0    56.3 10100.0
GR  59.4 10139.0    59.5 10166.0    61.3 10199.0    60.4 10242.0    58.4 10256.0
GR  57.5 10288.0    58.4 10300.0    57.4 10308.0    57.8 10315.0    56.9 10340.0
GR  57.2 10370.0    56.3 10390.0    52.4 10395.0    49.8 10410.0    46.8 10420.0
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Subsegment 080101
Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

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GR  42.9 10461.0    41.8 10470.0    42.1 10480.0    40.0 10499.0    40.0 10511.0
GR  36.9 10541.0    37.0 10550.0    37.9 10561.0    37.9 10570.0    41.1 10600.0
GR  45.0 10621.0    46.0 10631.0    48.0 10640.0    52.6 10654.0    61.4 10659.0
GR  63.5 10662.0    64.4 10665.0    63.7 10670.0    63.5 10699.0    63.5 10861.0
GR  64.5 13861.0    84.5 13863.0
X1217.10      14    3000    3350    1100    1900    1584
X3    10
GR    88       0      62       1      62    2000      62    3000      59    3050
GR    41    3100      36    3150      34    3200      36    3250      45    3300
GR    54    3350      60    3400      59    6400      88    6405
X1217.40     38.   10263   10603     700    2500    1584
X3    10
GR  83.6  7047.0    63.6  7049.0    62.6 10049.0    62.6 10099.0    62.6 10150.0
GR  62.6 10200.0    62.8 10249.0    62.6 10263.0    52.6 10274.0    46.7 10291.0
GR  41.7 10311.0    40.0 10320.0    40.7 10330.0    40.5 10350.0    39.7 10361.0
GR  39.7 10380.0    38.5 10391.0    39.8 10399.0    39.7 10411.0    40.7 10420.0
GR  39.7 10430.0    40.8 10441.0    40.6 10451.0    41.5 10461.0    41.6 10471.0
GR  40.6 10481.0    40.6 10501.0    41.7 10512.0    44.6 10521.0    46.6 10530.0
GR  48.6 10550.0    52.3 10567.0    62.5 10603.0    62.6 10651.0    62.5 10701.0
GR  62.5 10811.0    63.5 13811.0    83.5 13813.0
X1217.60     35.   10260   10591     500     600    1056
X3    10
GR  82.5  7048.0    62.5  7050.0    61.5 10050.0    61.5 10101.0    61.5 10200.0
GR  61.7 10249.0    61.5 10260.0    52.7 10271.0    38.9 10290.0    37.9 10301.0
GR  34.9 10311.0    32.9 10320.0    32.0 10331.0    32.0 10360.0    33.0 10370.0
GR  33.1 10381.0    36.3 10391.0    38.2 10410.0    38.0 10421.0    42.1 10440.0
GR  44.1 10460.0    44.1 10471.0    47.1 10501.0    50.0 10511.0    51.1 10521.0
GR  56.6 10548.0    60.4 10578.0    62.6 10591.0    63.0 10600.0    62.6 10652.0
GR  62.6 10699.0    62.6 10764.0    62.6 10800.0    63.6 13800.0    83.6 13802.0
X1217.80     33.   10225   10525    2000     750    1056
X3    10
GR  85.1  7048.0    65.1  7050.0    64.1 10050.0    64.3 10200.0    64.1 10225.0
GR  55.7 10230.0    45.9 10250.0    39.2 10259.0    35.1 10269.0    34.3 10280.0
GR  34.9 10290.0    35.1 10340.0    37.1 10359.0    37.0 10370.0    40.0 10399.0
GR  40.1 10419.0    39.0 10429.0    39.0 10441.0    40.2 10449.0    42.3 10461.0
GR  46.2 10469.0    48.2 10480.0    51.0 10488.0    52.5 10507.0    58.2 10510.0
GR  61.3 10514.0    63.4 10525.0    63.4 10550.0    63.4 10601.0    63.4 10649.0
GR  63.4 10725.0    64.4 13725.0    84.4 13727.0
X1218.00     35. 10233.0 10521.5    1056    1056    1056
X3    10
GR  85.5  7028.4    65.5  7030.4    64.5 10030.4    64.5 10090.1    64.5 10233.0
GR  58.6 10237.7    52.3 10247.3    39.1 10259.7    34.0 10270.3    32.9 10280.3
GR  34.1 10290.2    36.2 10300.1    34.9 10310.1    35.0 10320.6    37.0 10329.5
GR  37.1 10360.3    38.0 10369.8    38.1 10380.2    36.0 10399.2    36.0 10409.7
GR  37.1 10419.6    37.1 10450.0    38.1 10459.9    40.2 10470.3    44.2 10479.7
GR  50.1 10490.4    58.4 10517.6    63.5 10521.5    63.5 10548.8    63.5 10599.2
GR  63.5 10650.0    64.3 10699.2    64.6 10724.1    65.6 13724.1    85.6 13726.1
X1218.20     37.   10258   10593    1056    1056    1056
X3    10
GR  84.4  7048.0    64.4  7050.0    63.4 10050.0    63.4 10100.0    63.4 10150.0
GR  63.4 10218.0    63.4 10235.0    63.9 10254.0    63.4 10258.0    60.8 10261.0
GR  52.9 10276.0    45.0 10300.0    43.0 10310.0    42.1 10320.0    42.0 10340.0
GR  41.1 10349.0    41.2 10359.0    42.2 10370.0    41.0 10380.0    41.2 10439.0
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Subsegment 080101
Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

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GR  39.9 10450.0    40.2 10489.0    37.0 10520.0    38.0 10530.0    38.2 10541.0
GR  40.2 10550.0    43.1 10560.0    48.5 10571.0    52.5 10579.0    60.7 10582.0
GR  62.8 10590.0    65.5 10593.0    65.5 10600.0    65.5 10701.0    65.5 10799.0
GR  66.5 13799.0    86.5 13801.0
X1218.60     34.   10351   10645    2118    2118    2118
X3    10
GR  82.5  7205.0    62.5  7207.0    61.5 10207.0    61.5 10227.0    61.8 10277.0
GR  61.5 10298.0    61.5 10314.0    61.5 10333.0    61.5 10351.0    58.5 10381.0
GR  55.5 10384.0    54.7 10397.0    50.0 10419.0    47.1 10429.0    46.0 10439.0
GR  46.0 10450.0    42.0 10489.0    39.8 10499.0    39.0 10510.0    32.8 10529.0
GR  31.1 10539.0    30.0 10549.0    29.8 10569.0    30.9 10579.0    31.2 10609.0
GR  34.5 10620.0    52.7 10632.0    56.5 10640.0    64.3 10645.0    64.5 10699.0
GR  64.3 10798.0    64.3 10850.0    65.3 13850.0    85.3 13852.0
X1218.80     33.   10238   10590    1056    1056    1056
X3    10
GR  82.6  7036.0    62.6  7038.0    61.6 10038.0    61.6 10100.0    62.6 10150.0
GR  64.1 10198.0    64.6 10222.0    61.6 10238.0    56.0 10243.0    52.7 10255.0
GR  50.2 10270.0    45.0 10279.0    43.1 10290.0    37.2 10309.0    37.2 10350.0
GR  38.1 10359.0    38.1 10379.0    39.1 10389.0    39.2 10439.0    38.1 10449.0
GR  38.2 10470.0    37.0 10479.0    37.2 10498.0    39.0 10520.0    47.5 10539.0
GR  56.4 10561.0    59.5 10573.0    63.3 10590.0    64.4 10648.0    64.2 10709.0
GR  63.3 10797.0    64.3 13797.0    84.3 13799.0
X1219.00     37. 10335.7 10702.9    1056    1056    1056
X3    10
GR  84.8  7046.9    64.8  7048.9    63.8 10048.9    64.5 10099.3    63.9 10150.6
GR  64.2 10200.0    61.6 10250.9    62.0 10283.3    57.3 10335.7    57.3 10335.8
GR  50.2 10360.4    48.2 10370.4    46.0 10389.4    46.2 10409.3    45.0 10420.8
GR  45.0 10469.7    44.0 10481.2    44.1 10491.1    42.0 10510.6    42.2 10521.6
GR  41.0 10531.1    40.9 10540.1    39.8 10550.6    39.0 10560.1    33.1 10590.6
GR  33.0 10601.1    35.2 10611.0    38.0 10621.4    39.3 10631.8    41.3 10640.8
GR  59.8 10694.1    64.8 10702.9    64.8 10789.2    64.8 10850.1    64.8 10902.3
GR  65.8 13902.3    85.8 13904.3
X1219.20     34.   10255   10613    1056    1056    1056
X3    10
GR  86.2  7047.0    66.2  7049.0    65.2 10049.0    64.0 10150.0    63.6 10169.0
GR  63.6 10199.0    63.9 10250.0    63.6 10255.0    62.3 10260.0    57.1 10264.0
GR  40.9 10301.0    37.0 10339.0    38.2 10351.0    38.1 10399.0    39.2 10411.0
GR  39.3 10420.0    40.1 10430.0    38.1 10450.0    38.2 10470.0    39.2 10481.0
GR  43.1 10500.0    43.1 10521.0    45.0 10540.0    45.1 10550.0    47.1 10570.0
GR  58.7 10603.0    62.3 10608.0    63.6 10613.0    63.6 10650.0    63.6 10700.0
GR  63.7 10750.0    63.6 10812.0    64.6 13812.0    84.6 13814.0
X1219.40     33.   10325   10615    1056    1056    1056
X3    10
GR  85.2  7248.0    65.2  7250.0    64.2 10250.0    64.0 10277.0    60.8 10325.0
GR  39.9 10349.0    36.2 10360.0    34.2 10369.0    28.2 10389.0    26.0 10409.0
GR  26.2 10420.0    25.2 10430.0    27.4 10440.0    30.1 10449.0    32.1 10460.0
GR  32.1 10480.0    34.1 10499.0    34.1 10510.0    36.2 10520.0    41.2 10549.0
GR  46.0 10568.0    52.8 10588.0    58.4 10597.0    61.1 10601.0    63.2 10614.0
GR  63.2 10615.0    64.1 10649.0    63.2 10677.0    63.2 10690.0    63.2 10701.0
GR  63.2 10820.0    64.2 13820.0    84.2 13822.0
X1219.60     34.   10328   10704    1056    1056    1056
X3    10
GR  85.8  7098.0    65.8  7100.0    64.8 10100.0    64.8 10249.0    65.4 10290.0
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Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

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GR  64.8 10328.0    52.5 10344.0    37.1 10360.0    35.0 10370.0    32.2 10380.0
GR  30.1 10399.0    31.4 10411.0    34.0 10420.0    34.2 10430.0    35.1 10440.0
GR  39.1 10460.0    43.1 10500.0    43.2 10510.0    45.2 10530.0    44.9 10549.0
GR  46.9 10570.0    46.9 10590.0    49.0 10610.0    49.1 10629.0    50.0 10640.0
GR  49.9 10650.0    52.3 10669.0    55.7 10683.0    59.8 10695.0    62.5 10704.0
GR  64.3 10750.0    62.6 10850.0    63.6 13850.0    83.6 13852.0
X1219.79     39. 10326.9 10700.1    1003    1003    1003
X3    10
GR  85.5  7098.2    65.5  7100.2    64.5 10100.2    64.7 10250.2    65.2 10279.6
GR  64.5 10326.9    64.6 10327.0    52.6 10350.5    45.1 10380.0    43.3 10389.0
GR  42.1 10399.0    40.2 10419.4    40.1 10429.4    39.0 10440.8    39.0 10449.8
GR  40.0 10459.3    39.9 10489.2    39.0 10500.6    39.2 10510.1    37.9 10519.6
GR  39.2 10529.5    39.3 10539.0    38.0 10549.0    38.4 10569.9    37.0 10579.4
GR  37.3 10599.3    36.2 10609.3    36.1 10619.8    38.2 10639.7    44.1 10650.0
GR  45.3 10659.5    49.5 10669.9    52.7 10676.3    57.6 10691.7    64.8 10700.1
GR  64.8 10750.5    64.8 10930.3    65.8 13930.3    85.8 13932.3
X1219.97     36.   10274   10672     950     950     950
X3    10
GR  84.6  7072.0    64.6  7074.0    63.6 10074.0    63.6 10100.0    63.6 10149.0
GR  63.6 10164.0    63.6 10203.0    64.3 10220.0    64.4 10251.0    63.6 10274.0
GR  58.7 10282.0    53.7 10292.0    50.2 10339.0    49.3 10348.0    46.2 10360.0
GR  46.3 10370.0    45.1 10379.0    45.1 10410.0    43.0 10430.0    43.3 10439.0
GR  41.1 10450.0    43.2 10470.0    43.2 10509.0    42.0 10518.0    42.3 10609.0
GR  40.8 10619.0    42.0 10630.0    44.2 10640.0    47.0 10650.0    53.2 10658.0
GR  65.0 10672.0    65.0 10707.0    65.0 10800.0    65.0 10899.0    66.0 13899.0
GR  86.0 13901.0
X1220.18     34. 10301.0 10669.5    1108    1108    1108
X3    10
GR  83.8  7098.4    63.8  7100.4    62.8 10100.4    62.7 10149.7    64.1 10210.3
GR  60.9 10250.9    60.9 10263.8    62.2 10280.1    60.9 10301.0    58.4 10312.1
GR  47.9 10370.3    43.9 10409.3    43.8 10440.1    42.9 10449.1    43.1 10459.1
GR  41.8 10469.1    41.8 10489.5    38.8 10520.5    38.9 10528.9    37.0 10548.9
GR  36.9 10558.9    34.9 10570.9    35.1 10599.8    34.0 10609.3    34.0 10619.7
GR  40.1 10643.3    46.4 10659.9    65.3 10669.5    66.4 10699.3    65.3 10749.1
GR  65.3 10850.2    65.3 10898.6    66.3 13898.6    86.3 13900.6
X1220.60     38.   10315   10682    2216    2216    2216
X3    10
GR  85.5  7197.0    65.5  7199.0    64.5 10199.0    64.5 10251.0    64.5 10315.0
GR  52.5 10327.0    43.2 10341.0    40.0 10349.0    38.2 10361.0    34.1 10371.0
GR  32.1 10381.0    32.2 10390.0    31.1 10400.0    32.1 10410.0    32.2 10420.0
GR  31.2 10431.0    32.0 10439.0    35.5 10450.0    36.2 10461.0    38.2 10471.0
GR  40.9 10499.0    41.0 10510.0    43.1 10531.0    43.2 10541.0    44.9 10560.0
GR  45.4 10580.0    46.2 10592.0    52.4 10617.0    62.9 10681.0    62.9 10682.0
GR  64.7 10726.0    64.8 10739.0    62.9 10754.0    62.9 10803.0    62.9 10853.0
GR  62.9 10886.0    63.9 13886.0    83.9 13888.0
X1220.80     27.   10294   10651    1056    1056    1056
X3    10
GR  86.3  7098.0    66.3  7100.0    65.3 10100.0    65.3 10150.0    65.3 10199.0
GR  65.3 10294.0    56.2 10305.0    44.2 10318.0    41.3 10330.0    39.1 10340.0
GR  36.1 10350.0    38.1 10371.0    38.1 10481.0    39.0 10491.0    39.2 10521.0
GR  40.2 10530.0    40.2 10570.0    41.2 10581.0    41.2 10590.0    49.1 10610.0
GR  52.3 10625.0    60.9 10640.0    64.7 10651.0    64.7 10699.0    64.7 10799.0
GR  65.7 13799.0    85.7 13801.0
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Originated: January 31, 2002
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X1221.00     32.   10309   10675    1056    1056    1056
X3    10
GR  85.0  7098.0    65.0  7100.0    64.0 10100.0    64.8 10150.0    64.4 10199.0
GR  65.2 10250.0    64.0 10309.0    58.5 10313.0    52.4 10321.0    49.2 10329.0
GR  47.1 10340.0    47.3 10351.0    44.3 10361.0    43.2 10372.0    42.2 10379.0
GR  42.1 10420.0    41.0 10430.0    41.3 10460.0    40.3 10469.0    40.4 10529.0
GR  39.1 10540.0    39.2 10560.0    43.2 10600.0    49.2 10631.0    52.5 10637.0
GR  62.1 10657.0    67.7 10675.0    67.7 10683.0    67.7 10723.0    67.7 10807.0
GR  68.7 13807.0    88.7 13809.0
X1221.20     27.   10287   10596    1056    1056    1056
X3    10
GR  86.9  7083.0    66.9  7085.0    65.9 10085.0    65.9 10250.0    65.9 10287.0
GR  57.0 10298.0    52.1 10300.0    41.1 10310.0    30.0 10330.0    24.3 10350.0
GR  23.1 10361.0    23.2 10371.0    29.1 10430.0    33.1 10452.0    33.2 10472.0
GR  36.2 10500.0    38.2 10512.0    52.4 10548.0    54.0 10556.0    60.1 10579.0
GR  62.4 10596.0    62.5 10646.0    62.4 10699.0    62.4 10749.0    62.4 10795.0
GR  63.4 13795.0    83.4 13797.0
X1221.40     30.   10273   10664    1056    1056    1056
X3    10
GR  85.7  7047.0    65.7  7049.0    64.7 10049.0    64.7 10111.0    64.8 10150.0
GR  64.9 10249.0    64.7 10273.0    52.7 10311.0    47.2 10319.0    45.2 10329.0
GR  41.0 10339.0    37.0 10360.0    35.2 10380.0    37.3 10400.0    37.1 10480.0
GR  35.9 10490.0    36.1 10500.0    37.1 10509.0    37.1 10529.0    38.2 10539.0
GR  38.1 10591.0    42.1 10609.0    51.1 10629.0    52.5 10645.0    63.8 10657.0
GR  64.5 10664.0    64.5 10763.0    64.5 10873.0    65.5 13873.0    85.5 13875.0
X1221.80     39.   10284   10623    2112    2112    2112
X3    10
GR  85.7  7079.0    65.7  7081.0    64.7 10081.0    64.7 10131.0    64.7 10183.0
GR  64.7 10284.0    52.8 10298.0    49.0 10309.0    40.2 10328.0    34.3 10359.0
GR  34.2 10368.0    33.1 10379.0    35.0 10399.0    35.2 10410.0    36.1 10418.0
GR  36.2 10458.0    37.2 10468.0    37.4 10479.0    36.0 10489.0    37.0 10499.0
GR  37.1 10509.0    38.1 10519.0    38.2 10529.0    39.0 10539.0    39.2 10550.0
GR  40.1 10559.0    42.2 10569.0    43.1 10579.0    45.0 10590.0    52.6 10608.0
GR  54.2 10616.0    55.9 10618.0    56.5 10623.0    61.6 10699.0    61.5 10748.0
GR  65.5 10799.0    65.7 10899.0    66.7 13899.0    86.7 13901.0
X1222.20     33.   10284   10689    2112    2112    2112
X3    10
GR  85.8  7048.0    65.8  7050.0    64.8 10050.0    64.8 10149.0    65.4 10249.0
GR  64.8 10284.0    62.0 10288.0    52.5 10310.0    50.3 10320.0    46.1 10329.0
GR  36.3 10379.0    34.0 10400.0    34.1 10412.0    36.0 10430.0    36.2 10480.0
GR  37.2 10490.0    37.1 10500.0    38.1 10510.0    36.1 10530.0    38.1 10550.0
GR  41.0 10560.0    47.0 10589.0    47.3 10600.0    48.1 10610.0    48.2 10619.0
GR  49.1 10630.0    52.3 10644.0    56.9 10670.0    61.4 10676.0    65.8 10689.0
GR  65.8 10899.0    66.8 13899.0    86.8 13901.0
X1222.40     31. 10299.6 10699.8    1056    1056    1056
X3    10
GR  89.5  7098.1    69.5  7100.1    68.5 10100.1    68.5 10149.5    68.5 10249.7
GR  68.5 10299.6    65.8 10315.5    57.1 10325.4    48.4 10349.2    42.1 10359.6
GR  36.1 10389.4    34.1 10409.3    32.0 10419.8    32.2 10439.7    33.0 10449.7
GR  33.2 10460.7    39.1 10519.6    40.1 10540.5    41.3 10550.0    43.2 10560.5
GR  46.2 10590.4    49.5 10599.9    52.7 10618.4    56.7 10634.4    60.1 10669.4
GR  61.8 10699.8    62.0 10750.6    61.8 10800.0    61.8 10849.9    62.8 13849.9
GR  82.8 13851.9
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Subsegment 080101
Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

```
X1222.60     37.   10298   10677    1056    1056    1056
X3    10
GR  83.5  7092.0    63.5  7094.0    62.5 10094.0    62.0 10298.0    54.0 10325.0
GR  50.0 10349.0    48.1 10368.0    48.2 10378.0    47.0 10389.0    47.1 10399.0
GR  45.9 10408.0    46.1 10419.0    44.0 10439.0    44.1 10449.0    43.0 10458.0
GR  43.2 10468.0    40.8 10488.0    41.1 10500.0    38.8 10520.0    39.0 10530.0
GR  38.0 10540.0    38.0 10551.0    36.9 10559.0    36.8 10570.0    37.9 10580.0
GR  38.2 10610.0    41.1 10628.0    45.8 10649.0    57.6 10662.0    66.5 10677.0
GR  66.5 10690.0    66.5 10765.0    66.5 10796.0    66.5 10829.0    66.5 10850.0
GR  67.5 13850.0    87.5 13852.0
X1223.20     35.   10183   10655    3168    3168    3168
X3    10
GR  86.6  7131.0    66.6  7133.0    65.6 10133.0    64.5 10183.0    54.8 10213.0
GR  52.1 10236.0    51.8 10261.0    49.9 10281.0    45.8 10301.0    45.0 10310.0
GR  39.0 10330.0    37.0 10341.0    33.9 10370.0    33.8 10390.0    35.0 10401.0
GR  33.9 10410.0    34.0 10419.0    33.0 10431.0    32.8 10451.0    34.0 10459.0
GR  34.0 10470.0    35.1 10480.0    35.0 10501.0    36.0 10511.0    35.8 10550.0
GR  37.0 10560.0    40.1 10571.0    43.8 10590.0    48.4 10602.0    52.2 10605.0
GR  68.8 10655.0    68.8 10702.0    68.8 10801.0    69.8 13801.0    89.8 13803.0
X1223.40     50.   10218   10899    1056    1056    1056
X3    10
GR  86.4  7047.0    66.4  7049.0    65.4 10049.0    65.4 10148.0    65.4 10218.0
GR  52.8 10236.0    46.4 10259.0    45.0 10269.0    45.2 10280.0    44.2 10289.0
GR  44.2 10298.0    42.9 10309.0    43.2 10319.0    41.3 10339.0    37.9 10350.0
GR  34.0 10389.0    34.1 10399.0    33.2 10410.0    32.9 10439.0    32.1 10448.0
GR  32.0 10458.0    32.9 10468.0    32.9 10478.0    38.1 10529.0    38.2 10539.0
GR  41.2 10568.0    41.4 10639.0    35.0 10699.0    34.9 10729.0    32.9 10749.0
GR  34.0 10759.0    34.0 10769.0    36.0 10778.0    36.9 10788.0    37.0 10798.0
GR  38.8 10819.0    37.8 10829.0    39.1 10839.0    43.1 10849.0    52.7 10861.0
GR  55.2 10875.0    65.1 10894.0    65.7 10899.0    65.7 10937.0    66.4 10942.0
GR  67.7 10998.0    67.6 11049.0    66.2 11097.0    67.2 14097.0    87.2 14099.0
X1223.52     50.   10151   10595     633     633     633
X3    10
GR  87.6  6947.0    67.6  6949.0    66.6  9949.0    66.6  9999.0    66.6 10023.0
GR  69.7 10035.0    66.6 10055.0    66.6 10099.0    66.6 10151.0    44.9 10190.0
GR  41.9 10200.0    44.0 10219.0    44.1 10229.0    42.9 10239.0    42.9 10259.0
GR  42.0 10270.0    42.0 10290.0    43.0 10298.0    42.9 10339.0    42.0 10349.0
GR  41.9 10370.0    43.1 10379.0    43.1 10409.0    41.9 10420.0    41.9 10430.0
GR  40.9 10440.0    40.8 10450.0    42.9 10459.0    43.9 10470.0    44.1 10488.0
GR  46.0 10510.0    52.1 10531.0    54.1 10539.0    59.3 10550.0    63.7 10561.0
GR  67.1 10595.0    67.4 10608.0    67.1 10616.0    67.7 10629.0    67.4 10750.0
GR  68.0 10850.0    67.8 10876.0    67.1 10899.0    67.1 10950.0    67.1 11049.0
GR  67.1 11100.0    67.1 11150.0    67.1 11200.0    68.1 14200.0    88.1 14202.0
X1223.72     45.   10234   10814    1056    1056    1056
X3    10
GR  87.0  6998.0    67.0  7000.0    66.0 10000.0    66.1 10185.0    68.3 10199.0
GR  66.7 10214.0    66.0 10234.0    50.0 10259.0    49.1 10267.0    44.9 10289.0
GR  43.9 10300.0    43.9 10330.0    45.0 10339.0    45.1 10399.0    46.0 10410.0
GR  46.1 10470.0    47.1 10479.0    46.9 10529.0    47.9 10539.0    48.0 10560.0
GR  49.0 10570.0    49.1 10579.0    50.0 10589.0    49.9 10599.0    51.1 10610.0
GR  51.0 10621.0    49.9 10629.0    50.9 10639.0    50.9 10649.0    52.0 10659.0
GR  52.0 10669.0    55.1 10699.0    54.8 10711.0    56.7 10719.0    61.0 10760.0
GR  61.0 10780.0    62.2 10800.0    64.6 10814.0    64.6 10836.0    64.6 10849.0
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Subsegment 080101
Originated: January 31, 2002
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GR  64.6 10900.0    64.6 10949.0    64.6 11020.0    65.6 14020.0    85.6 14022.0
X1223.92     45.   10322   10715    1056    1056    1056
X3    10
GR  87.4  7047.0    67.4  7049.0    66.4 10049.0    66.4 10149.0    66.4 10199.0
GR  66.7 10249.0    66.4 10322.0    56.8 10334.0    52.3 10340.0    40.0 10354.0
GR  35.9 10360.0    33.1 10370.0    34.1 10380.0    33.0 10389.0    34.2 10400.0
GR  34.2 10410.0    36.2 10430.0    36.2 10441.0    37.2 10450.0    37.1 10460.0
GR  39.1 10481.0    39.0 10490.0    41.6 10504.0    42.2 10510.0    42.0 10520.0
GR  44.1 10540.0    44.0 10550.0    45.1 10561.0    45.1 10570.0    46.2 10580.0
GR  46.0 10590.0    48.0 10609.0    48.2 10620.0    50.1 10642.0    50.1 10651.0
GR  52.0 10660.0    61.1 10691.0    62.0 10701.0    63.5 10702.0    65.7 10715.0
GR  65.7 10801.0    66.2 10822.0    65.8 10901.0    66.8 13901.0    86.8 13903.0
X1224.12     46.   10284   10734    1056    1056    1056
X3    10
GR  86.4  7081.0    66.4  7083.0    65.4 10083.0    65.4 10110.0    65.4 10133.0
GR  65.4 10183.0    65.4 10214.0    65.4 10251.0    65.4 10264.0    65.4 10284.0
GR  62.1 10298.0    57.9 10321.0    52.1 10339.0    46.0 10400.0    46.0 10410.0
GR  42.9 10440.0    43.1 10460.0    42.0 10470.0    43.1 10481.0    43.0 10511.0
GR  42.0 10519.0    42.0 10531.0    40.0 10550.0    40.0 10571.0    41.0 10580.0
GR  41.0 10600.0    42.0 10611.0    42.0 10620.0    41.0 10630.0    42.1 10640.0
GR  41.1 10650.0    40.9 10661.0    42.0 10670.0    41.9 10679.0    43.2 10690.0
GR  45.4 10700.0    51.6 10713.0    54.0 10719.0    66.8 10734.0    66.8 10749.0
GR  66.8 10799.0    66.8 10848.0    66.8 10899.0    66.8 10949.0    67.8 13949.0
GR  87.8 13951.0
X1224.30     36.   10278   10618     950     950     950
X3    10
GR  85.6  7081.0    65.6  7083.0    64.6 10083.0    64.6 10111.0    64.6 10128.0
GR  64.6 10143.0    64.6 10167.0    64.6 10196.0    64.6 10211.0    65.5 10225.0
GR  65.6 10249.0    64.6 10278.0    61.7 10284.0    63.2 10288.0    60.0 10309.0
GR  51.8 10319.0    45.0 10339.0    43.0 10349.0    39.1 10389.0    39.1 10400.0
GR  34.1 10449.0    34.1 10459.0    32.0 10469.0    28.1 10509.0    28.1 10539.0
GR  30.0 10559.0    36.1 10579.0    42.0 10588.0    45.6 10601.0    50.2 10610.0
GR  62.1 10613.0    66.5 10618.0    66.7 10698.0    66.5 10868.0    67.5 13868.0
GR  87.5 13870.0
X1224.48     39. 10302.0 10670.0     950     950     950
X3    10
GR  88.0  7077.8    68.0  7079.8    67.0 10079.8    66.7 10099.8    66.6 10250.2
GR  64.7 10290.1    63.6 10302.0    63.4 10305.0    62.0 10305.6    60.0 10320.5
GR  48.1 10359.2    43.0 10410.6    43.1 10431.0    40.0 10440.5    40.1 10460.9
GR  39.0 10470.9    39.0 10480.4    37.1 10501.3    37.1 10510.8    34.0 10539.8
GR  34.1 10550.2    33.1 10558.7    33.0 10570.6    32.0 10580.6    33.0 10590.6
GR  33.0 10610.5    41.0 10640.7    46.1 10650.5    66.0 10670.0    66.3 10713.3
GR  66.0 10740.7    66.3 10744.7    66.4 10768.1    67.6 10775.1    67.5 10800.0
GR  67.0 10850.3    66.2 10900.6    67.2 13900.6    87.2 13902.6
X1224.56     37.   10241   10613     422     422     422
X3    10
GR  88.5  7038.0    68.5  7040.0    67.5 10040.0    67.5 10073.0    67.5 10099.0
GR  67.5 10120.0    67.5 10187.0    67.5 10203.0    67.5 10219.0    68.3 10232.0
GR  67.5 10241.0    63.9 10253.0    62.0 10254.0    47.8 10290.0    41.0 10359.0
GR  41.0 10369.0    39.9 10378.0    40.1 10389.0    36.9 10420.0    36.9 10430.0
GR  35.0 10449.0    35.0 10510.0    35.9 10529.0    38.0 10548.0    38.0 10579.0
GR  38.9 10590.0    43.9 10600.0    62.1 10606.0    65.9 10612.0    65.9 10613.0
GR  66.6 10660.0    66.7 10699.0    66.3 10722.0    66.7 10729.0    66.2 10820.0
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GR  67.2 13820.0    87.2 13822.0
X1224.84     35.   10252   10923    1478    1478    1478
X3    10
GR  89.3  7046.0    69.3  7048.0    68.3 10048.0    68.3 10202.0    68.3 10252.0
GR  61.9 10262.0    61.0 10269.0    49.7 10289.0    46.0 10310.0    42.0 10320.0
GR  42.0 10330.0    41.0 10339.0    42.0 10349.0    42.2 10540.0    41.0 10548.0
GR  41.1 10580.0    40.1 10590.0    40.3 10622.0    41.1 10629.0    41.0 10639.0
GR  42.1 10649.0    42.1 10659.0    45.2 10680.0    49.2 10720.0    51.1 10729.0
GR  52.2 10740.0    56.2 10758.0    59.1 10788.0    61.1 10798.0    61.1 10859.0
GR  62.2 10885.0    67.0 10923.0    67.4 10998.0    68.4 13998.0    88.4 14000.0
X1225.02     40.   10277   10663     950     950     950
X3    10
GR  89.8  7047.0    69.8  7049.0    68.8 10049.0    68.8 10198.0    68.8 10277.0
GR  67.1 10280.0    57.9 10288.0    47.8 10299.0    37.9 10319.0    35.8 10330.0
GR  35.7 10391.0    37.0 10399.0    36.8 10410.0    37.9 10419.0    37.8 10430.0
GR  39.0 10439.0    38.9 10450.0    40.0 10459.0    40.0 10469.0    41.0 10481.0
GR  41.0 10490.0    41.9 10499.0    42.0 10511.0    42.9 10523.0    42.9 10529.0
GR  45.0 10549.0    45.0 10560.0    48.0 10590.0    50.0 10600.0    51.0 10610.0
GR  55.0 10629.0    60.0 10638.0    65.2 10663.0    65.6 10668.0    65.2 10709.0
GR  65.2 10772.0    65.2 10819.0    65.2 10869.0    66.2 13869.0    86.2 13871.0
X1225.20     46.   10257   10700     950     950     950
X3    10
GR  87.4  7047.0    67.4  7049.0    66.4 10049.0    66.4 10149.0    66.7 10199.0
GR  68.6 10249.0    66.4 10257.0    61.1 10260.0    45.7 10275.0    41.7 10280.0
GR  33.9 10300.0    31.9 10310.0    31.9 10340.0    33.4 10352.0    35.0 10360.0
GR  37.1 10380.0    39.1 10389.0    38.9 10400.0    41.0 10419.0    40.9 10429.0
GR  42.0 10439.0    41.9 10450.0    44.0 10469.0    44.0 10480.0    46.0 10500.0
GR  45.9 10509.0    47.0 10519.0    47.0 10530.0    48.0 10540.0    48.0 10550.0
GR  49.0 10560.0    48.9 10580.0    50.0 10589.0    50.0 10599.0    53.9 10640.0
GR  56.1 10650.0    59.0 10660.0    61.0 10669.0    62.1 10681.0    65.4 10688.0
GR  66.6 10700.0    66.6 10749.0    66.6 10800.0    66.6 10900.0    67.6 13900.0
GR  87.6 13902.0
X1225.40     37. 10279.4 10673.1    1056    1056    1056
X3    10
GR  89.2  7047.5    69.2  7049.5    68.2 10049.5    68.2 10099.9    68.2 10149.3
GR  68.2 10279.4    66.2 10286.7    57.1 10300.1    43.7 10310.2    33.0 10340.8
GR  36.0 10350.3    36.1 10359.8    38.2 10380.4    37.9 10390.9    40.0 10410.0
GR  40.0 10491.2    38.9 10501.3    39.0 10521.2    37.9 10530.4    38.0 10561.2
GR  39.1 10571.5    39.0 10581.0    40.0 10591.3    40.0 10600.8    42.0 10620.4
GR  48.1 10641.4    57.1 10660.3    62.0 10672.5    64.6 10672.6    64.6 10673.1
GR  65.5 10680.4    65.7 10700.3    65.4 10800.5    64.6 10849.6    64.6 10899.4
GR  65.6 13899.4    85.6 13901.4
X1225.60     39.   10259   10646    1056    1056    1056
X3    10
GR  85.1  7047.0    65.1  7049.0    64.1 10049.0    64.5 10149.0    65.3 10199.0
GR  64.1 10259.0    62.0 10276.0    60.9 10289.0    57.8 10300.0    57.0 10309.0
GR  53.0 10329.0    51.9 10340.0    50.0 10350.0    49.0 10360.0    47.1 10369.0
GR  43.9 10399.0    42.0 10410.0    40.0 10429.0    40.0 10440.0    37.0 10470.0
GR  35.0 10480.0    33.8 10491.0    33.8 10501.0    33.0 10510.0    32.9 10520.0
GR  31.8 10530.0    31.9 10540.0    29.8 10550.0    29.8 10581.0    35.8 10610.0
GR  40.3 10621.0    45.1 10629.0    54.1 10639.0    65.2 10646.0    65.5 10649.0
GR  65.2 10749.0    65.2 10849.0    66.2 13849.0    86.2 13851.0
NH     5     .04     100     .03     700     .04    2800   .0250    3568     .04
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Subsegment 080101
Originated: January 31, 2002
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```
NH  4401
X1 226.4      18    1800    3568    4224    4224    4224
X3    10                                            72
GR    91       0      65       1      65     100      50     200      47     300
GR    45     400      43     500      48     600      65     700      65    1800
GR    65    2800      44    2884      44    3048      34    3088      34    3388
GR    79    3568      79    4400      91    4401
NH     5    .040     300    .03      900    .04     2800   .0250    3568    .04
NH  3801
X1 226.9      21    1000    3568    2640    2640    2640
X3    10                                            72
GR    91       0      65       1      65     300      59     400      47     500
GR    45     600      45     700      43     800      65     900      65    1000
GR    91  1000.1      91    2300      65    2301      65    2800      44    2884
GR    44    3048      34    3088      34    3388      79    3568      79    3800
GR    91    3801
NC  .025    .025    .025
X1 227.1      10       1    3457    1056    1056    1056
X5     5      65      65      65      65      65
X5
GR    91       0      72       1      72     301      91     302      91    2800
GR    53    2952      53    3160      35    3161      35    3457      91    3681
NH     5    .04      1600    .03     2000    .04     5000    .025    5672    .04
NH  7673
X1 227.3      16    3600    5672    1050    1050    1050
X3    10                                            72
GR    91       0      67       1      65    1600      45    1700      40    1800
GR    34    1900      65    2000      65    3600      65    5000      53    5048
GR    53    5184      35    5256      35    5552      65    5672      65    7672
GR    91    7673
NC   .04     .04    .025
X1 228.8      14   10252  10934.    7920    7920    7920
X3    10
GR  88.5  7047.0    68.5  7049.0    67.5 10049.0    67.5 10100.0    67.5 10150.0
GR  67.5   10200    67.5   10252      35   10382      35   10678      53   10750
GR    53   10886      65   10934    67.6   13849    87.6   13851
X1229.20     35.   10230   10590    2112    2112    2112
X3    10
GR  88.8  7027.0    68.8  7029.0    67.8 10029.0    67.8 10089.0    67.8 10149.0
GR  68.0 10190.0    67.8 10230.0    65.1 10239.0    53.8 10259.0    50.0 10270.0
GR  46.9 10280.0    43.1 10300.0    42.8 10321.0    44.0 10329.0    44.0 10360.0
GR  44.9 10369.0    44.8 10380.0    42.8 10400.0    43.0 10440.0    41.0 10460.0
GR  39.0 10470.0    38.9 10500.0    38.0 10510.0    41.0 10540.0    43.0 10550.0
GR  49.8 10559.0    62.1 10586.0    66.5 10590.0    67.2 10649.0    66.8 10667.0
GR  66.5 10695.0    66.5 10749.0    66.5 10798.0    67.5 13798.0    87.5 13800.0
X1229.40     24.   10265   10591    1056    1056    1056
X3    10
GR  88.1  7048.0    68.1  7050.0    67.1 10050.0    67.8 10150.0    66.3 10182.0
GR  66.1 10265.0    57.4 10281.0    45.5 10300.0    41.2 10320.0    41.1 10380.0
GR  42.1 10390.0    42.0 10420.0    41.1 10429.0    40.8 10460.0    40.0 10468.0
GR  40.0 10520.0    42.3 10540.0    61.8 10585.0    66.0 10591.0    67.7 10650.0
GR  67.0 10701.0    66.4 10800.0    67.4 13800.0    87.4 13802.0
X1229.60     35.   10248   10569    1056    1056    1056
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X3    10
GR  89.4  7047.0    69.4  7049.0    68.4 10049.0    68.4 10150.0    68.4 10199.0
GR  68.4 10248.0    48.3 10259.0    42.3 10279.0    36.0 10289.0    33.1 10319.0
GR  35.3 10339.0    37.0 10349.0    37.1 10359.0    38.0 10369.0    40.2 10380.0
GR  41.2 10389.0    41.3 10400.0    44.1 10428.0    44.2 10438.0    45.2 10449.0
GR  45.5 10460.0    46.2 10468.0    46.0 10489.0    48.2 10498.0    51.2 10509.0
GR  60.1 10528.0    62.2 10540.0    64.5 10569.0    64.5 10655.0    64.5 10679.0
GR  64.5 10698.0    64.8 10747.0    65.7 10798.0    66.7 13798.0    86.7 13800.0
X1229.80     37.   10265   10674    1056    1056    1056
X3    10
GR  88.7  7047.0    68.7  7049.0    67.7 10049.0    67.7 10110.0    67.7 10200.0
GR  68.5 10248.0    67.7 10265.0    61.9 10318.0    54.1 10329.0    47.0 10349.0
GR  46.2 10358.0    44.0 10369.0    42.2 10389.0    42.3 10399.0    40.2 10409.0
GR  41.2 10420.0    41.2 10430.0    43.2 10449.0    41.2 10468.0    43.2 10479.0
GR  42.0 10489.0    42.1 10559.0    40.9 10569.0    42.1 10578.0    41.9 10599.0
GR  44.4 10620.0    47.3 10628.0    57.3 10649.0    62.1 10663.0    66.9 10674.0
GR  66.9 10729.0    66.9 10775.0    66.9 10824.0    66.9 10829.0    67.6 10873.0
GR  68.6 13873.0    88.6 13875.0
X1230.15     36.   10246   10596    1848    1848    1848
X3    10
GR  87.4  7042.0    67.4  7044.0    66.4 10044.0    66.6 10099.0    66.4 10149.0
GR  66.4 10167.0    66.4 10199.0    66.4 10246.0    63.5 10257.0    59.0 10269.0
GR  54.0 10278.0    48.1 10299.0    47.2 10310.0    48.0 10319.0    46.1 10339.0
GR  46.1 10358.0    45.1 10369.0    45.2 10390.0    44.2 10398.0    44.2 10419.0
GR  41.2 10449.0    41.2 10459.0    40.1 10469.0    40.1 10490.0    39.0 10500.0
GR  39.2 10509.0    37.1 10530.0    37.9 10539.0    42.1 10549.0    48.2 10569.0
GR  52.3 10579.0    68.4 10596.0    68.4 10699.0    68.4 10749.0    69.4 13749.0
GR  89.4 13751.0
X1230.30     38.   10227   10595     792     792     792
X3    10
GR  86.4  7027.0    66.4  7029.0    65.4 10029.0    65.6 10089.0    67.2 10148.0
GR  67.6 10202.0    65.4 10227.0    61.9 10231.0    51.9 10250.0    46.0 10270.0
GR  45.0 10281.0    45.1 10331.0    44.0 10340.0    44.1 10379.0    43.0 10389.0
GR  42.9 10419.0    41.0 10430.0    39.9 10439.0    40.0 10450.0    38.9 10459.0
GR  38.9 10470.0    37.1 10490.0    36.9 10499.0    40.0 10510.0    41.0 10519.0
GR  59.0 10558.0    60.3 10570.0    62.2 10581.0    67.2 10595.0    67.2 10627.0
GR  67.2 10643.0    67.2 10674.0    67.2 10708.0    67.2 10720.0    67.5 10752.0
GR  67.2 10795.0    68.2 13795.0    88.2 13797.0
X1230.52     34.   10364   10681    1161    1161    1161
X3    10
GR  89.1  7077.0    69.1  7079.0    68.1 10079.0    68.1 10124.0    68.1 10299.0
GR  68.7 10357.0    68.1 10364.0    62.0 10365.0    40.3 10399.0    38.0 10410.0
GR  37.1 10420.0    37.0 10439.0    38.0 10449.0    38.0 10469.0    40.0 10489.0
GR  40.0 10500.0    41.1 10509.0    41.0 10529.0    43.0 10540.0    43.1 10560.0
GR  42.1 10569.0    42.0 10589.0    44.3 10609.0    44.0 10620.0    54.9 10660.0
GR  62.1 10669.0    65.6 10680.0    65.5 10681.0    65.5 10700.0    65.5 10749.0
GR  65.5 10815.0    65.5 10880.0    66.5 13880.0    86.5 13882.0
X1230.74     29.   10242   10538    1161    1161    1161
X3    10
GR  88.5  7240.0    68.5  7242.0    67.5 10242.0    61.2 10245.0    48.9 10260.0
GR  42.0 10280.0    38.0 10290.0    36.9 10300.0    32.9 10320.0    31.0 10340.0
GR  30.9 10381.0    31.9 10389.0    34.0 10400.0    34.9 10410.0    39.0 10430.0
GR  40.0 10440.0    43.2 10450.0    44.0 10460.0    46.0 10470.0    51.1 10500.0
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GR  62.0 10524.0    65.2 10538.0    65.6 10563.0    66.8 10599.0    66.3 10649.0
GR  65.4 10714.0    65.2 10799.0    66.2 13799.0    86.2 13801.0
X1230.96     32.   10238   10620     900     600    1161
X3    10
GR  88.4  7035.0    68.4  7037.0    67.4 10037.0    67.7 10138.0    67.6 10188.0
GR  65.4 10238.0    64.0 10245.0    57.2 10260.0    46.9 10280.0    42.2 10299.0
GR  37.0 10350.0    37.0 10371.0    39.0 10380.0    38.9 10411.0    40.0 10420.0
GR  40.0 10430.0    42.1 10450.0    42.1 10460.0    43.0 10472.0    43.1 10501.0
GR  42.1 10510.0    42.1 10531.0    44.2 10540.0    53.0 10560.0    57.3 10580.0
GR  61.9 10595.0    64.5 10610.0    67.6 10620.0    67.6 10699.0    67.6 10830.0
GR  68.6 13830.0    88.6 13832.0
X1231.17     31.   10244   10595     400     700    1108
X3    10
GR  86.4  7037.0    66.4  7039.0    65.4 10039.0    65.4 10136.0    65.4 10158.0
GR  65.4 10169.0    65.4 10174.0    65.4 10196.0    65.4 10225.0    65.4 10244.0
GR  60.9 10250.0    62.1 10269.0    60.9 10280.0    52.0 10300.0    43.0 10329.0
GR  41.9 10340.0    42.0 10370.0    41.0 10385.0    41.0 10489.0    40.0 10500.0
GR  40.0 10530.0    38.0 10539.0    39.9 10550.0    45.0 10560.0    47.0 10569.0
GR  62.1 10590.0    68.6 10595.0    69.0 10597.0    68.6 10699.0    69.6 13699.0
GR  89.6 13701.0
X1231.38     34.   10211   10533     600    1200    1108
X3    10
GR  86.8  7018.0    66.8  7020.0    65.8 10020.0    65.8 10059.0    65.8 10075.0
GR  65.8 10110.0    65.8 10211.0    65.2 10220.0    62.2 10222.0    56.1 10239.0
GR  44.0 10270.0    43.0 10279.0    45.1 10300.0    44.1 10311.0    44.2 10320.0
GR  43.1 10329.0    43.1 10350.0    42.1 10360.0    42.1 10370.0    41.1 10380.0
GR  40.8 10412.0    37.2 10450.0    37.0 10460.0    36.1 10470.0    37.0 10480.0
GR  39.5 10491.0    47.8 10510.0    61.6 10524.0    63.1 10529.0    67.2 10533.0
GR  67.2 10650.0    67.2 10771.0    68.2 13771.0    88.2 13773.0
X1231.59     38.   10240   10654     400    2000    1108
X3    10
GR  89.4  7037.0    69.4  7039.0    68.4 10039.0    68.2 10089.0    68.2 10199.0
GR  67.8 10240.0    63.8 10250.0    62.1 10252.0    60.1 10260.0    58.9 10270.0
GR  60.0 10280.0    55.1 10289.0    47.0 10300.0    43.1 10310.0    42.1 10320.0
GR  35.2 10350.0    36.0 10360.0    39.9 10370.0    40.1 10421.0    41.2 10430.0
GR  41.1 10450.0    40.0 10460.0    41.0 10470.0    41.0 10488.0    38.9 10511.0
GR  35.0 10531.0    35.2 10541.0    37.0 10549.0    42.2 10600.0    45.1 10609.0
GR  50.0 10628.0    64.0 10654.0    64.5 10658.0    64.5 10699.0    66.5 10749.0
GR  65.8 10797.0    66.8 13797.0    86.8 13799.0
X1231.80     35.   10242   10619     400    1000    1108
X3    10
GR  89.2  7037.0    69.2  7039.0    68.2 10039.0    68.2 10200.0    68.2 10242.0
GR  62.2 10254.0    51.0 10259.0    44.1 10279.0    39.0 10300.0    38.0 10310.0
GR  36.2 10319.0    35.1 10329.0    35.0 10339.0    39.2 10359.0    43.2 10399.0
GR  43.1 10430.0    45.2 10449.0    44.2 10459.0    47.2 10489.0    47.0 10499.0
GR  48.1 10509.0    48.1 10519.0    49.1 10528.0    48.1 10540.0    52.1 10580.0
GR  55.3 10590.0    60.0 10598.0    62.1 10610.0    65.3 10619.0    66.6 10639.0
GR  65.3 10700.0    65.3 10749.0    65.3 10818.0    66.3 13818.0    86.3 13820.0
X1232.00     30.   10245   10604    1000     750    1056
X3    10
GR  89.6  7047.0    69.6  7049.0    68.6 10049.0    68.6 10149.0    68.6 10245.0
GR  56.0 10256.0    51.0 10260.0    44.1 10271.0    34.2 10310.0    32.1 10330.0
GR  34.2 10340.0    35.1 10350.0    37.2 10359.0    40.1 10390.0    45.2 10419.0
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GR  45.0 10430.0    48.9 10468.0    49.0 10510.0    51.1 10529.0    54.0 10540.0
GR  59.1 10549.0    62.3 10566.0    63.6 10571.0    66.5 10589.0    67.7 10604.0
GR  67.7 10648.0    67.7 10699.0    67.7 10799.0    68.7 13799.0    88.7 13801.0
X1232.40     36.   10248   10623    1700    2000    2112
X3    10
GR  88.1  7041.0    68.1  7043.0    67.1 10043.0    67.0 10100.0    66.9 10140.0
GR  66.9 10198.0    67.3 10227.0    66.9 10248.0    62.3 10265.0    56.2 10290.0
GR  54.9 10301.0    51.7 10310.0    51.8 10319.0    50.1 10329.0    50.0 10350.0
GR  48.1 10369.0    48.1 10380.0    47.1 10389.0    47.3 10400.0    45.0 10409.0
GR  44.9 10420.0    42.9 10431.0    36.8 10490.0    33.3 10511.0    35.0 10520.0
GR  35.0 10530.0    36.9 10539.0    40.1 10550.0    40.0 10559.0    44.8 10578.0
GR  53.1 10599.0    68.2 10623.0    68.2 10672.0    68.2 10749.0    69.2 13749.0
GR  89.2 13751.0
X1232.60     34.   10265   10603    1056    1056    1056
X3    10
GR  88.9  7057.0    68.9  7059.0    67.9 10059.0    67.9 10100.0    67.9 10115.0
GR  67.9 10140.0    68.0 10201.0    67.9 10265.0    66.6 10272.0    55.0 10299.0
GR  53.1 10309.0    48.6 10320.0    46.1 10329.0    44.0 10339.0    42.9 10349.0
GR  43.1 10370.0    41.9 10380.0    42.0 10390.0    40.9 10399.0    41.0 10410.0
GR  39.8 10419.0    39.8 10431.0    38.2 10449.0    37.8 10480.0    34.0 10520.0
GR  31.1 10529.0    31.2 10540.0    33.1 10549.0    62.0 10595.0    68.4 10603.0
GR  68.4 10660.0    68.4 10809.0    69.4 13809.0    89.4 13811.0
X1232.80     36.   10264   10625    1056    1056    1056
X3    10
GR  90.9  7047.0    70.9  7049.0    69.9 10049.0    69.9 10099.0    70.0 10224.0
GR  69.9 10264.0    57.6 10278.0    50.9 10288.0    45.4 10308.0    39.1 10340.0
GR  38.0 10349.0    38.2 10369.0    40.2 10381.0    41.1 10390.0    41.4 10399.0
GR  42.3 10410.0    42.4 10449.0    43.1 10459.0    43.0 10479.0    44.0 10489.0
GR  44.0 10519.0    45.0 10530.0    44.0 10539.0    45.9 10548.0    48.0 10568.0
GR  51.0 10579.0    55.3 10590.0    62.0 10616.0    65.8 10625.0    66.5 10673.0
GR  65.8 10701.0    65.8 10723.0    65.8 10774.0    65.8 10823.0    66.8 13823.0
GR  86.8 13825.0
X1233.00     35.   10275   10652    1056    1056    1056
X3    10
GR  89.8  7159.0    69.8  7161.0    68.8 10161.0    69.0 10249.0    68.8 10275.0
GR  62.0 10281.0    50.0 10288.0    41.0 10318.0    39.0 10329.0    39.1 10340.0
GR  40.1 10349.0    39.9 10360.0    41.1 10368.0    41.0 10379.0    43.2 10398.0
GR  43.0 10429.0    44.0 10439.0    44.1 10450.0    45.1 10459.0    45.0 10491.0
GR  46.1 10499.0    45.9 10519.0    47.3 10529.0    47.1 10559.0    49.2 10570.0
GR  49.3 10590.0    59.0 10619.0    62.3 10635.0    66.4 10652.0    66.4 10701.0
GR  66.4 10750.0    67.1 10800.0    67.6 10850.0    68.6 13850.0    88.6 13852.0
X1233.20     36.   10244   10560    1056    1056    1056
X3    10
GR  89.2  7037.0    69.2  7039.0    68.2 10039.0    68.3 10149.0    68.7 10199.0
GR  68.2 10244.0    62.0 10246.0    56.0 10259.0    47.0 10269.0    45.0 10280.0
GR  40.8 10289.0    41.0 10310.0    40.1 10321.0    39.9 10360.0    39.1 10370.0
GR  39.1 10380.0    38.1 10390.0    39.2 10400.0    39.2 10410.0    40.1 10421.0
GR  39.8 10440.0    42.0 10459.0    41.9 10469.0    43.0 10479.0    42.9 10499.0
GR  44.2 10509.0    59.7 10539.0    62.1 10549.0    65.3 10560.0    66.8 10609.0
GR  66.2 10650.0    66.2 10660.0    68.1 10709.0    66.3 10759.0    67.3 13759.0
GR  87.3 13761.0
X1233.40     30.   10252   10616     800    1100    1056
X3    10
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GR  90.2  7007.0    67.0  7009.0    69.2 10009.0    69.1 10049.0    69.2 10149.0
GR  69.1 10200.0    68.6 10252.0    65.0 10288.0    59.7 10301.0    53.8 10310.0
GR  50.2 10319.0    46.1 10340.0    37.9 10420.0    39.3 10429.0    38.0 10440.0
GR  38.0 10470.0    36.8 10479.0    37.3 10499.0    35.9 10510.0    36.0 10519.0
GR  40.0 10530.0    40.0 10540.0    43.1 10560.0    52.1 10589.0    61.9 10608.0
GR  68.5 10616.0    68.5 10649.0    68.5 10816.0    69.5 13816.0    89.5 13818.0
X1233.60     39. 10249.9 10588.3     700    1600    1056
X3    10
GR  90.2  7096.9    67.0  7098.9    69.2 10098.9    69.2 10249.9    65.4 10251.5
GR  50.3 10268.9    46.2 10279.0    42.0 10300.1    34.9 10319.7    33.1 10330.2
GR  35.1 10340.1    37.1 10361.0    36.9 10390.4    38.2 10399.8    38.0 10411.8
GR  39.1 10419.2    39.0 10429.7    40.0 10438.6    40.0 10450.1    41.2 10459.5
GR  40.3 10470.5    42.1 10490.4    45.4 10500.2    46.3 10510.2    47.9 10520.6
GR  55.5 10538.8    58.8 10549.1    60.9 10557.5    65.4 10588.3    65.4 10599.3
GR  67.2 10629.1    65.4 10647.6    66.4 10683.9    66.5 10699.9    65.4 10748.3
GR  67.2 10775.1    67.6 10799.5    68.6 13799.5    88.6 13801.5
X1233.80     26.   10259   10570     800    1300    1056
X3    10
GR  90.4  7047.0    67.0  7049.0    69.4 10049.0    69.6 10199.0    69.4 10259.0
GR  62.3 10269.0    49.0 10279.0    44.2 10289.0    40.3 10300.0    40.3 10310.0
GR  39.3 10318.0    39.2 10349.0    39.0 10360.0    37.2 10381.0    39.2 10419.0
GR  40.0 10438.0    42.1 10469.0    44.1 10480.0    48.4 10519.0    50.4 10530.0
GR  66.7 10570.0    66.7 10619.0    66.7 10764.0    66.7 10798.0    67.7 13798.0
GR  87.7 13800.0
X1234.00     44.   10274   10653    1200     700    1056
X3    10
GR  91.0  7068.0    71.0  7070.0    70.0 10070.0    70.0 10250.0    70.0 10274.0
GR  68.5 10283.0    62.0 10286.0    49.1 10298.0    40.7 10317.0    36.8 10330.0
GR  36.1 10340.0    35.9 10351.0    37.0 10361.0    37.1 10371.0    39.0 10379.0
GR  40.3 10389.0    39.8 10400.0    41.1 10409.0    41.1 10422.0    43.0 10439.0
GR  43.0 10450.0    44.0 10460.0    44.1 10470.0    45.0 10479.0    44.8 10490.0
GR  46.1 10500.0    45.9 10519.0    46.9 10530.0    46.9 10540.0    48.1 10549.0
GR  48.0 10580.0    49.2 10590.0    51.0 10600.0    59.9 10619.0    62.3 10631.0
GR  61.3 10634.0    63.8 10641.0    64.8 10653.0    64.8 10676.0    66.5 10740.0
GR  65.4 10799.0    64.9 10845.0    65.9 13845.0    85.9 13847.0
X1234.20     37.   10256   10580    1056    1056    1056
X3    10
GR  90.0  7047.0    70.0  7049.0    69.0 10049.0    69.6 10149.0    69.8 10200.0
GR  68.6 10256.0    62.7 10260.0    49.8 10268.0    45.8 10280.0    37.0 10309.0
GR  36.4 10320.0    38.0 10329.0    36.9 10340.0    37.0 10361.0    39.1 10379.0
GR  39.1 10390.0    40.1 10399.0    40.0 10430.0    41.0 10440.0    41.0 10450.0
GR  42.0 10459.0    41.9 10481.0    43.1 10489.0    42.0 10500.0    44.1 10519.0
GR  45.9 10529.0    49.2 10540.0    59.2 10559.0    62.4 10575.0    66.5 10580.0
GR  67.5 10587.0    66.5 10616.0    69.3 10699.0    68.7 10749.0    68.9 10788.0
GR  69.9 13788.0    89.9 13790.0
X1234.40     30.   10245   10591    1056    1056    1056
X3    10
GR  90.4  7097.0    70.4  7099.0    69.4 10099.0    69.8 10149.0    70.3 10199.0
GR  68.9 10245.0    65.4 10265.0    56.3 10278.0    51.9 10290.0    49.1 10300.0
GR  45.0 10320.0    42.0 10349.0    42.2 10360.0    41.1 10370.0    41.1 10439.0
GR  39.1 10461.0    39.2 10490.0    38.1 10500.0    40.3 10519.0    40.1 10530.0
GR  42.4 10540.0    45.2 10550.0    55.5 10569.0    62.5 10586.0    68.7 10591.0
GR  69.5 10641.0    69.1 10649.0    68.7 10691.0    69.7 13691.0    89.7 13693.0
```

Subsegment 080101
Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

```
X1234.60     30.   10232   10565    1056    1056    1056
X3    10
GR  91.4  7038.0    71.4  7040.0    70.4 10040.0    70.2 10100.0    69.4 10150.0
GR  69.5 10199.0    69.4 10232.0    68.0 10241.0    53.9 10259.0    48.9 10270.0
GR  45.1 10279.0    42.9 10300.0    43.3 10340.0    41.9 10349.0    42.1 10389.0
GR  40.1 10410.0    40.3 10449.0    39.0 10460.0    39.4 10470.0    35.9 10499.0
GR  37.9 10509.0    49.9 10539.0    62.3 10543.0    69.5 10565.0    70.0 10615.0
GR  69.7 10662.0    69.5 10700.0    69.5 10765.0    70.5 13765.0    90.5 13767.0
X1234.80     33.   10228   10526    1056    1056    1056
X3    10
GR  90.0  7073.0    70.0  7075.0    69.0 10075.0    69.7 10149.0    69.8 10198.0
GR  68.8 10228.0    65.1 10235.0    52.6 10248.0    48.2 10259.0    38.4 10268.0
GR  34.0 10279.0    34.2 10291.0    35.0 10299.0    34.8 10309.0    36.0 10318.0
GR  36.1 10370.0    37.0 10379.0    37.0 10399.0    39.2 10420.0    39.0 10428.0
GR  42.6 10460.0    44.3 10470.0    47.2 10479.0    55.5 10500.0    60.0 10508.0
GR  62.5 10519.0    64.8 10526.0    67.6 10574.0    64.8 10624.0    65.3 10675.0
GR  69.3 10723.0    70.3 13723.0    90.3 13725.0
X1235.00     29.   10220   10559    1056    1056    1056
X3    10
GR  90.0  7018.0    70.0  7020.0    69.0 10020.0    68.5 10084.0    68.5 10133.0
GR  68.5 10220.0    65.9 10230.0    37.2 10290.0    37.0 10320.0    39.4 10340.0
GR  39.1 10360.0    40.4 10370.0    40.1 10380.0    41.3 10389.0    41.1 10409.0
GR  42.2 10420.0    42.3 10471.0    43.9 10491.0    47.1 10509.0    52.0 10520.0
GR  62.4 10549.0    67.5 10559.0    68.4 10611.0    67.5 10635.0    67.5 10659.0
GR  68.7 10708.0    67.5 10758.0    68.5 13758.0    88.5 13760.0
X1235.20     35.   10257   10618    1056    1056    1056
X3    10
GR  90.5  7047.0    70.5  7049.0    69.5 10049.0    69.5 10149.0    70.2 10248.0
GR  69.5 10257.0    52.0 10268.0    45.2 10279.0    39.0 10299.0    38.0 10310.0
GR  37.9 10330.0    39.1 10339.0    39.0 10350.0    40.0 10359.0    40.0 10368.0
GR  41.1 10379.0    41.2 10400.0    42.0 10409.0    42.2 10429.0    42.9 10439.0
GR  43.1 10460.0    44.0 10470.0    44.1 10490.0    45.1 10499.0    44.9 10510.0
GR  46.9 10529.0    46.9 10539.0    49.1 10561.0    51.2 10569.0    54.9 10579.0
GR  58.0 10589.0    64.5 10618.0    68.3 10718.0    69.3 13718.0    89.3 13720.0
X1235.40     41.   10258   10609    1056    1056    1056
X3    10
GR  87.4  7017.0    67.4  7019.0    66.4 10019.0    67.1 10082.0    66.5 10140.0
GR  66.4 10199.0    66.6 10225.0    66.4 10258.0    64.0 10268.0    62.3 10278.0
GR  52.1 10300.0    45.1 10309.0    43.1 10319.0    43.1 10340.0    41.9 10350.0
GR  42.1 10359.0    41.0 10370.0    41.1 10380.0    40.0 10389.0    40.0 10400.0
GR  41.1 10410.0    39.9 10420.0    41.1 10429.0    41.1 10440.0    39.9 10449.0
GR  40.1 10499.0    39.0 10510.0    41.0 10529.0    41.0 10539.0    39.9 10550.0
GR  40.9 10559.0    45.9 10569.0    59.0 10579.0    60.2 10589.0    62.4 10599.0
GR  70.0 10609.0    70.2 10614.0    70.0 10663.0    70.0 10749.0    71.0 13749.0
GR  91.0 13751.0
X1235.60     32.   10304   10643    1056    1056    1056
X3    10
GR  88.8  7046.0    68.8  7048.0    67.8 10048.0    67.5 10099.0    67.5 10148.0
GR  67.5 10199.0    67.5 10229.0    67.5 10304.0    62.4 10323.0    56.0 10339.0
GR  51.0 10349.0    47.1 10369.0    46.1 10379.0    44.1 10389.0    42.9 10399.0
GR  42.9 10409.0    42.0 10419.0    43.0 10428.0    41.0 10441.0    40.0 10450.0
GR  40.1 10461.0    38.0 10479.0    38.0 10589.0    40.1 10601.0    50.9 10630.0
GR  66.1 10643.0    66.6 10649.0    67.0 10683.0    69.7 10694.0    69.5 10850.0
```

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Subsegment 080101
Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

```
GR  70.5 13850.0    90.5 13852.0
X1236.00     33.   10224   10549    2112    2112    2112
X3    10
GR  90.6  7018.0    70.6  7020.0    69.6 10020.0    69.6 10049.0    69.6 10103.0
GR  69.6 10140.0    69.6 10199.0    69.6 10224.0    68.0 10235.0    54.0 10269.0
GR  52.1 10279.0    48.0 10320.0    46.0 10330.0    42.9 10340.0    39.1 10360.0
GR  35.9 10370.0    34.2 10379.0    33.0 10390.0    31.1 10399.0    30.2 10410.0
GR  30.0 10419.0    34.1 10459.0    34.1 10480.0    36.1 10490.0    44.2 10510.0
GR  59.2 10530.0    62.3 10547.0    69.7 10549.0    70.2 10562.0    69.7 10712.0
GR  69.7 10762.0    70.7 13762.0    90.7 13764.0
X1236.20     42.   10263   10670    1056    1056    1056
X3    10
GR  91.6  7046.0    71.6  7048.0    70.6 10048.0    70.6 10149.0    70.6 10263.0
GR  66.6 10274.0    62.3 10279.0    60.1 10290.0    54.8 10300.0    47.9 10309.0
GR  43.9 10320.0    41.9 10331.0    40.9 10340.0    40.9 10350.0    40.0 10360.0
GR  39.9 10410.0    42.0 10430.0    41.9 10440.0    43.0 10448.0    42.9 10460.0
GR  41.9 10470.0    41.9 10490.0    40.9 10501.0    42.8 10510.0    42.9 10520.0
GR  40.9 10531.0    43.9 10539.0    46.8 10571.0    47.1 10581.0    49.0 10599.0
GR  51.0 10612.0    60.1 10640.0    62.4 10651.0    65.4 10661.0    67.4 10670.0
GR  67.4 10699.0    67.4 10706.0    67.4 10750.0    67.4 10822.0    67.4 10851.0
GR  68.4 13851.0    88.4 13853.0
X1236.40     30.   10221   10536    1056    1056    1056
X3    10
GR  90.8  7017.0    70.8  7019.0    69.8 10019.0    70.5 10084.0    70.3 10150.0
GR  69.6 10221.0    58.1 10239.0    55.0 10249.0    42.0 10260.0    35.1 10279.0
GR  35.1 10310.0    34.2 10319.0    35.2 10331.0    35.0 10359.0    36.2 10370.0
GR  36.2 10390.0    38.2 10409.0    38.1 10419.0    40.2 10439.0    46.0 10469.0
GR  47.2 10479.0    56.1 10500.0    62.3 10518.0    67.1 10524.0    68.6 10536.0
GR  68.6 10549.0    68.6 10650.0    68.6 10751.0    69.6 13751.0    89.6 13753.0
X1236.60     45.   10232   10549    1056    1056    1056
X3    10
GR  90.5  7016.0    70.5  7018.0    69.5 10018.0    69.3 10049.0    69.3 10104.0
GR  69.0 10154.0    65.3 10160.0    65.6 10174.0    66.3 10180.0    66.8 10201.0
GR  67.3 10214.0    68.4 10217.0    67.8 10220.0    62.3 10232.0    50.9 10240.0
GR  42.0 10249.0    31.9 10269.0    30.0 10280.0    29.0 10289.0    28.9 10300.0
GR  30.0 10310.0    31.9 10319.0    33.0 10330.0    34.8 10339.0    37.1 10361.0
GR  39.2 10372.0    41.0 10390.0    42.9 10402.0    43.0 10411.0    44.0 10419.0
GR  46.0 10430.0    47.0 10440.0    46.9 10449.0    48.8 10459.0    50.0 10469.0
GR  52.1 10480.0    60.9 10510.0    63.3 10527.0    65.3 10533.0    69.1 10549.0
GR  69.1 10601.0    69.1 10700.0    69.1 10747.0    70.1 13747.0    90.1 13749.0
X1236.80     49.   10223   10663    1056    1056    1056
X3    10
GR  91.6  7018.0    71.6  7020.0    70.6 10020.0    70.6 10100.0    70.6 10115.0
GR  70.6 10160.0    71.7 10199.0    70.6 10211.0    70.6 10223.0    70.1 10228.0
GR  62.2 10234.0    54.9 10250.0    45.0 10270.0    44.2 10279.0    40.0 10290.0
GR  38.9 10300.0    38.9 10329.0    40.1 10340.0    39.9 10360.0    41.0 10370.0
GR  41.0 10390.0    42.0 10400.0    42.0 10409.0    43.0 10419.0    43.0 10430.0
GR  45.9 10459.0    46.0 10470.0    47.0 10480.0    47.0 10489.0    47.9 10500.0
GR  48.0 10519.0    50.1 10540.0    50.1 10551.0    50.9 10561.0    51.0 10570.0
GR  51.9 10580.0    52.1 10600.0    53.9 10610.0    62.2 10640.0    65.3 10645.0
GR  67.7 10653.0    69.4 10663.0    69.4 10700.0    69.4 10751.0    69.4 10800.0
GR  69.4 10851.0    69.4 10862.0    70.4 13862.0    90.4 13864.0
X1236.96     35.   10251   10672     844     844     844
```

Subsegment 080101
Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

```
X3    10
GR  90.4  7048.0    70.4  7050.0    69.4 10050.0    69.5 10199.0    69.3 10220.0
GR  69.6 10223.0    69.2 10251.0    52.9 10270.0    46.1 10300.0    45.0 10309.0
GR  43.0 10321.0    42.0 10330.0    43.0 10340.0    42.9 10350.0    44.0 10359.0
GR  43.9 10379.0    45.1 10390.0    45.0 10520.0    44.0 10530.0    44.0 10579.0
GR  45.0 10589.0    45.0 10600.0    47.0 10611.0    50.0 10619.0    51.9 10629.0
GR  60.0 10650.0    62.2 10666.0    70.3 10672.0    70.7 10678.0    70.3 10770.0
GR  70.3 10794.0    70.3 10824.0    70.3 10899.0    71.3 13899.0    91.3 13901.0
X1237.15     38.   10216   10596    1003    1003    1003
X3    10
GR  90.7  7048.0    70.7  7050.0    69.7 10050.0    69.7 10100.0    69.7 10134.0
GR  69.7 10159.0    69.7 10216.0    68.5 10226.0    62.4 10229.0    53.4 10244.0
GR  46.9 10260.0    42.9 10281.0    41.9 10290.0    39.9 10300.0    40.1 10321.0
GR  37.0 10330.0    36.1 10340.0    34.1 10350.0    34.1 10360.0    35.1 10370.0
GR  35.1 10381.0    34.1 10390.0    36.0 10411.0    36.1 10431.0    39.0 10462.0
GR  39.1 10500.0    42.0 10532.0    44.1 10540.0    45.0 10551.0    51.9 10570.0
GR  62.1 10587.0    64.7 10593.0    67.8 10596.0    68.5 10651.0    70.1 10701.0
GR  68.5 10801.0    69.5 13801.0    89.5 13803.0
X1237.37     48.   10251   10627    1161    1161    1161
X3    10
GR  88.6  7048.0    68.6  7050.0    67.6 10050.0    67.6 10099.0    67.6 10139.0
GR  67.6 10187.0    67.6 10190.0    67.6 10200.0    67.6 10220.0    67.6 10231.0
GR  67.6 10251.0    61.9 10258.0    59.0 10268.0    43.9 10289.0    41.1 10300.0
GR  38.8 10320.0    38.9 10329.0    36.8 10350.0    36.9 10360.0    37.9 10368.0
GR  37.9 10379.0    38.9 10389.0    38.9 10420.0    39.9 10430.0    39.8 10439.0
GR  40.9 10450.0    40.7 10520.0    38.6 10530.0    38.8 10540.0    39.9 10550.0
GR  39.8 10561.0    43.1 10570.0    47.2 10580.0    57.8 10599.0    63.6 10617.0
GR  66.4 10621.0    67.8 10627.0    68.8 10655.0    70.2 10660.0    70.6 10672.0
GR  70.3 10682.0    68.9 10687.0    69.3 10691.0    69.1 10784.0    68.7 10799.0
GR  69.2 10849.0    70.2 13849.0    90.2 13851.0
X1238.20     39. 10271.2 10649.8    4382    4382    4382
X3    10
GR  89.7  7048.3    69.7  7050.3    68.7 10050.3    68.7 10100.1    68.7 10151.2
GR  68.7 10250.5    68.7 10271.2    52.0 10299.8    47.9 10309.8    42.8 10319.9
GR  41.0 10331.1    40.0 10340.2    40.0 10361.1    41.8 10369.8    42.0 10390.2
GR  43.1 10400.5    43.0 10410.5    44.2 10420.3    43.9 10439.7    43.1 10449.8
GR  43.0 10460.2    45.1 10470.4    45.1 10491.8    47.0 10510.0    46.9 10521.9
GR  49.0 10539.6    49.2 10550.5    50.1 10560.4    60.8 10580.4    62.5 10589.6
GR  64.9 10598.3    70.5 10649.8    70.9 10700.0    70.5 10749.4    70.5 10798.7
GR  70.5 10848.4    70.5 10899.8    71.5 13899.8    91.5 13901.8
X1238.40     35.   10226   10525    1056    1056    1056
X3    10
GR  90.2  7016.0    70.2  7018.0    69.2 10018.0    69.2 10049.0    69.2 10099.0
GR  69.2 10198.0    69.2 10226.0    62.5 10233.0    52.3 10248.0    38.3 10279.0
GR  34.9 10309.0    38.9 10328.0    38.9 10340.0    40.0 10348.0    39.8 10369.0
GR  41.0 10379.0    40.9 10389.0    41.7 10399.0    41.9 10420.0    44.1 10439.0
GR  43.8 10460.0    50.8 10478.0    56.8 10488.0    62.2 10506.0    67.2 10518.0
GR  68.4 10525.0    68.4 10548.0    68.4 10568.0    68.4 10599.0    69.3 10649.0
GR  69.0 10677.0    70.4 10698.0    69.6 10748.0    70.6 13748.0    90.6 13750.0
X1238.80     31. 10259.5 10523.5    2112    2112    2112
X3    10
GR  88.5  7048.3    68.5  7050.3    67.5 10050.3    67.5 10100.1    67.5 10150.4
GR  68.2 10199.7    67.5 10259.5    66.8 10263.0    62.2 10263.8    56.4 10279.6
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Subsegment 080101
Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

```
GR  49.8 10290.4    41.0 10309.3    35.2 10320.1    35.0 10341.0    36.2 10349.9
GR  37.9 10359.8    39.0 10369.7    39.1 10400.1    40.0 10411.0    40.0 10420.5
GR  41.3 10429.9    41.1 10440.8    42.1 10450.8    42.0 10479.7    45.2 10489.4
GR  68.3 10523.5    70.8 10550.8    70.8 10601.1    70.4 10651.5    71.4 13651.5
GR  91.4 13653.5
X1239.00     35.   10263   10574    1056    1056    1056
X3    10
GR  88.6  7047.0    68.6  7049.0    67.6 10049.0    67.2 10099.0    67.2 10162.0
GR  65.8 10200.0    66.6 10249.0    65.8 10263.0    62.3 10273.0    59.1 10289.0
GR  54.4 10300.0    51.1 10309.0    48.0 10340.0    48.1 10360.0    47.0 10370.0
GR  47.1 10380.0    46.0 10389.0    46.0 10400.0    44.0 10419.0    45.2 10428.0
GR  42.1 10459.0    42.2 10470.0    40.1 10479.0    40.1 10489.0    38.0 10511.0
GR  38.0 10521.0    39.3 10531.0    42.1 10540.0    47.2 10550.0    62.2 10559.0
GR  63.6 10566.0    70.8 10574.0    70.8 10699.0    71.8 13699.0    91.8 13701.0
X1239.23     30.   10221   10479    1214    1214    1214
X3    10
GR  90.3  7019.0    70.3  7021.0    69.3 10021.0    69.3 10072.0    69.3 10121.0
GR  69.3 10150.0    69.3 10162.0    69.3 10200.0    69.3 10221.0    64.3 10236.0
GR  55.5 10260.0    49.1 10279.0    43.0 10310.0    42.1 10320.0    34.1 10360.0
GR  32.9 10370.0    32.9 10410.0    35.0 10430.0    37.0 10440.0    40.8 10449.0
GR  48.2 10460.0    62.4 10468.0    64.5 10473.0    70.5 10479.0    70.5 10499.0
GR  70.6 10600.0    70.5 10649.0    70.5 10699.0    71.5 13699.0    91.5 13701.0
X1239.45     36.   10254   10649    1161    1161    1161
X3    10
GR  91.4  7047.0    71.4  7049.0    70.4 10049.0    70.8 10149.0    70.8 10248.0
GR  70.4 10254.0    64.4 10259.0    54.0 10269.0    46.0 10289.0    41.2 10299.0
GR  38.9 10310.0    38.1 10320.0    35.0 10329.0    34.8 10340.0    33.9 10349.0
GR  30.1 10370.0    30.0 10390.0    31.9 10410.0    38.0 10440.0    39.0 10450.0
GR  41.3 10458.0    41.1 10470.0    55.3 10520.0    59.0 10539.0    61.1 10558.0
GR  61.0 10579.0    62.1 10588.0    62.3 10627.0    62.5 10640.0    63.2 10649.0
GR  65.6 10698.0    64.4 10749.0    67.4 10798.0    68.4 10849.0    69.4 13849.0
GR  89.4 13851.0
X1239.59     33.   10234   10551     739     739     739
X3    10
GR  91.5  7032.0    71.5  7034.0    70.5 10034.0    70.1 10134.0    70.1 10234.0
GR  67.6 10241.0    64.8 10252.0    62.7 10258.0    60.4 10268.0    54.1 10278.0
GR  51.2 10289.0    48.8 10294.0    46.3 10299.0    43.4 10309.0    39.1 10329.0
GR  39.0 10369.0    40.3 10379.0    40.1 10419.0    43.3 10449.0    43.2 10459.0
GR  45.3 10469.0    45.3 10479.0    51.2 10499.0    51.1 10509.0    60.1 10528.0
GR  62.7 10543.0    69.7 10551.0    70.0 10599.0    69.7 10649.0    69.7 10750.0
GR  69.7 10780.0    70.7 13780.0    90.7 13782.0
X1239.93     31.   10254   10515    1794    1794    1794
X3    10
GR  91.7  7047.0    71.7  7049.0    70.7 10049.0    70.5 10100.0    71.8 10150.0
GR  69.3 10208.0    68.0 10234.0    67.8 10248.0    67.5 10254.0    62.5 10269.0
GR  61.1 10279.0    56.0 10290.0    53.0 10299.0    51.0 10310.0    49.8 10320.0
GR  46.0 10340.0    45.0 10349.0    45.0 10370.0    39.9 10419.0    41.8 10430.0
GR  42.0 10470.0    44.0 10478.0    47.9 10489.0    62.4 10502.0    71.7 10515.0
GR  71.7 10599.0    71.7 10650.0    71.7 10700.0    71.7 10730.0    72.7 13730.0
GR  92.7 13732.0
X1240.14     32.   10223   10470    1108    1108    1108
X3    10
GR  91.6  7046.0    71.6  7048.0    70.6 10048.0    70.4 10101.0    68.1 10150.0
```

Subsegment 080101
Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

```
GR  69.1 10199.0    67.2 10223.0    65.6 10226.0    62.0 10239.0    61.0 10250.0
GR  52.9 10260.0    49.7 10270.0    47.7 10290.0    47.8 10300.0    42.8 10350.0
GR  42.9 10361.0    41.7 10370.0    42.1 10380.0    40.9 10391.0    41.0 10401.0
GR  39.9 10409.0    39.8 10429.0    40.9 10440.0    50.8 10451.0    65.8 10461.0
GR  71.3 10470.0    71.4 10500.0    71.3 10550.0    71.3 10599.0    71.3 10680.0
GR  72.3 13680.0    92.3 13682.0
X1240.55     35.   10295   10605    2164    2164    2164
X3    10
GR  92.7  7098.0    72.7  7100.0    71.7 10100.0    71.7 10150.0    71.7 10201.0
GR  71.7 10251.0    71.7 10295.0    65.6 10301.0    56.1 10309.0    49.3 10331.0
GR  45.0 10340.0    45.0 10361.0    44.0 10370.0    44.2 10379.0    43.1 10390.0
GR  44.0 10400.0    44.0 10419.0    45.3 10430.0    44.0 10439.0    45.2 10449.0
GR  45.0 10460.0    47.0 10477.0    46.8 10490.0    48.2 10498.0    47.1 10510.0
GR  52.1 10538.0    52.0 10560.0    60.9 10580.0    62.1 10590.0    65.8 10602.0
GR  70.0 10605.0    71.0 10649.0    70.4 10699.0    71.4 13699.0    91.4 13701.0
X1240.97     33.   10265   10504    2216    2216    2216
X3    10
GR  92.2  7047.0    72.2  7049.0    71.2 10049.0    71.2 10099.0    71.2 10199.0
GR  71.2 10265.0    58.2 10279.0    45.7 10289.0    41.2 10300.0    36.1 10309.0
GR  34.0 10320.0    34.0 10329.0    35.0 10339.0    35.1 10350.0    37.0 10369.0
GR  37.0 10380.0    39.7 10390.0    45.0 10440.0    49.2 10450.0    51.9 10460.0
GR  57.1 10471.0    60.2 10479.0    62.3 10490.0    65.9 10502.0    67.8 10504.0
GR 69.80 10525.0    68.6 10535.0    68.8 10567.0    70.3 10580.0    71.1 10605.0
GR 71.50 10705.0    72.5 13705.0    92.5 13707.0     0.0     0.0     0.0     0.0
X1241.18    33.0 10226.0 10559.0  1108.0  1108.0  1108.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 92.30  7047.0    72.3  7049.0    71.3 10049.0    69.7 10099.0    67.4 10148.0
GR 66.80 10199.0    67.8 10211.0    66.8 10226.0    62.4 10249.0    60.5 10268.0
GR 55.40 10290.0    53.6 10298.0    51.3 10319.0    51.3 10339.0    50.4 10348.0
GR 50.40 10359.0    48.3 10379.0    48.3 10390.0    43.9 10429.0    44.3 10439.0
GR 43.20 10451.0    43.2 10469.0    44.3 10479.0    45.2 10488.0    45.2 10499.0
GR 47.20 10510.0    49.4 10529.0    52.1 10540.0    66.4 10554.0    72.1 10559.0
GR 72.10 10650.0    73.1 13650.0    93.1 13652.0     0.0     0.0     0.0     0.0
X1241.59    34.0 10245.0 10573.0  2164.0  2164.0  2164.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 92.40  7037.0    72.4  7039.0    71.4 10039.0    71.4 10099.0    71.4 10149.0
GR 71.70 10200.0    71.4 10245.0    68.6 10253.0    54.3 10269.0    50.2 10289.0
GR 46.20 10299.0    44.1 10309.0    44.1 10320.0    45.1 10328.0    45.0 10439.0
GR 46.20 10449.0    46.2 10459.0    48.4 10470.0    47.3 10479.0    51.0 10499.0
GR 54.40 10509.0    58.1 10519.0    61.2 10529.0    62.1 10538.0    62.1 10549.0
GR 63.20 10559.0    66.2 10569.0    69.8 10573.0    70.3 10598.0    69.8 10648.0
GR 69.80 10700.0    69.8 10749.0    70.8 13749.0    90.8 13751.0     0.0     0.0
X1241.80    31.0 10288.2 10592.4   950.0   500.0  1108.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 92.50  7047.8    72.5  7049.8    71.5 10049.8    71.5 10099.0    71.8 10149.2
GR 71.50 10200.5    71.5 10288.2    65.8 10288.7    51.0 10310.1    43.1 10328.7
GR 36.00 10360.8    35.9 10371.3    32.0 10378.6    30.9 10389.7    31.0 10400.6
GR 28.90 10419.2    28.9 10430.7    35.2 10460.4    40.9 10490.2    54.7 10518.8
GR 61.00 10539.5    61.8 10549.9    65.8 10569.9    68.1 10576.2    70.5 10592.4
GR 70.50 10649.1    70.7 10698.9    70.5 10748.3    70.5 10797.1    71.5 13797.1
GR 91.50 13799.1     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
X1241.91    29.0 10279.0 10583.0    50.0   300.0   580.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
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Subsegment 080101
Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

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GR 90.40  7048.0    70.4  7050.0    69.4 10050.0    69.4 10100.0    69.4 10150.0
GR 69.40 10199.0    69.4 10249.0    69.4 10279.0    68.4 10284.0    65.5 10295.0
GR 44.70 10350.0    44.2 10359.0    41.9 10369.0    41.9 10429.0    42.9 10439.0
GR 42.90 10479.0    41.9 10489.0    39.9 10499.0    45.9 10520.0    45.9 10530.0
GR 48.10 10539.0    52.9 10549.0    55.1 10559.0    60.2 10569.0    70.9 10583.0
GR 70.90 10700.0    70.9 10798.0    71.9 13798.0    91.9 13800.0     0.0     0.0
X1242.12    36.0 10276.0 10560.0    50.0   700.0  1108.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 91.80  6048.0    71.8  6050.0    70.8 10050.0    71.0 10100.0    71.3 10149.0
GR 71.40 10249.0    70.8 10276.0    67.4 10289.0    62.1 10300.0    60.3 10309.0
GR 56.20 10318.0    54.3 10328.0    53.2 10339.0    53.1 10349.0    50.4 10359.0
GR 48.00 10380.0    48.1 10390.0    47.1 10399.0    47.2 10409.0    46.1 10420.0
GR 44.20 10429.0    44.3 10469.0    43.0 10478.0    44.2 10488.0    43.1 10499.0
GR 42.90 10519.0    46.1 10529.0    55.1 10538.0    63.5 10553.0    65.9 10557.0
GR 72.20 10560.0    72.6 10598.0    72.2 10648.0    72.2 10749.0    73.2 13749.0
GR 93.20 13751.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
X1242.33    37.0 10275.0 10558.0    50.0  2000.0  1108.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 91.00  6047.0    71.0  6049.0    70.0 10049.0    70.0 10099.0    70.0 10133.0
GR 71.30 10199.0    70.1 10249.0    70.0 10275.0    69.1 10286.0    66.1 10290.0
GR 50.10 10320.0    47.9 10329.0    47.0 10338.0    47.0 10349.0    45.9 10358.0
GR 45.90 10369.0    44.8 10379.0    45.0 10390.0    42.7 10408.0    43.0 10419.0
GR 41.90 10430.0    42.0 10459.0    44.1 10470.0    42.0 10480.0    42.1 10489.0
GR 45.00 10499.0    46.8 10508.0    47.8 10519.0    54.1 10529.0    55.0 10539.0
GR 71.60 10558.0    72.3 10598.0    72.1 10648.0    71.6 10750.0    71.6 10799.0
GR 72.60 13799.0    92.6 13801.0     0.0     0.0     0.0     0.0     0.0     0.0
X1242.53    34.0 10279.5 10540.0    50.0  1200.0  1056.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 92.40  6098.6    72.4  6100.6    71.4 10100.6    71.7 10150.8    71.0 10199.6
GR 70.00 10250.5    68.5 10279.5    67.8 10288.5    66.2 10289.6    62.0 10300.8
GR 60.30 10311.9    53.3 10320.9    44.4 10339.9    43.1 10349.5    43.0 10359.9
GR 41.00 10379.5    40.0 10420.9    38.9 10449.3    40.1 10460.7    42.1 10471.0
GR 42.00 10480.0    43.1 10489.8    43.0 10499.3    52.2 10509.6    63.2 10529.2
GR 66.30 10538.0    72.0 10540.0    72.8 10600.2    72.4 10650.0    72.6 10700.3
GR 72.00 10735.7    72.0 10752.2    73.0 13752.2    93.0 13754.2     0.0     0.0
X1243.09    39.0 10224.0 10511.0    50.0  4400.0  2955.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 91.90  6023.0    71.9  6025.0    70.9 10025.0    70.9 10049.0    70.9 10075.0
GR 70.90 10125.0    70.9 10140.0    70.9 10149.0    70.9 10166.0    70.9 10174.0
GR 70.90 10224.0    68.8 10233.0    66.5 10238.0    60.9 10248.0    58.9 10258.0
GR 56.10 10268.0    54.1 10279.0    53.1 10288.0    53.3 10298.0    51.2 10319.0
GR 49.20 10329.0    48.2 10339.0    46.1 10348.0    42.1 10358.0    33.2 10398.0
GR 32.90 10429.0    36.9 10449.0    38.0 10459.0    39.7 10469.0    50.4 10490.0
GR 61.30 10498.0    66.6 10507.0    71.7 10511.0    71.7 10549.0    71.7 10599.0
GR 71.70 10649.0    71.7 10698.0    72.7 13698.0    92.7 13700.0     0.0     0.0
X1243.28    34.0 10265.0 10583.0    50.0  1200.0  1003.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 93.70  6047.0    73.7  6049.0    72.7 10049.0    72.7 10149.0    72.7 10199.0
GR 72.70 10249.0    72.7 10265.0    69.5 10267.0    66.2 10275.0    63.0 10279.0
GR 61.30 10289.0    55.3 10309.0    55.1 10321.0    50.9 10329.0    50.3 10340.0
GR 47.90 10349.0    42.2 10368.0    41.2 10379.0    44.1 10409.0    44.0 10479.0
GR 45.20 10489.0    45.2 10499.0    46.1 10509.0    48.3 10518.0    48.8 10528.0
GR 57.20 10549.0    66.7 10574.0    69.2 10583.0    69.2 10589.0    71.5 10649.0
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Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

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GR 71.90 10750.0    72.5 10798.0    73.5 13798.0    93.5 13800.0     0.0     0.0
X1243.47    34.0 10252.0 10535.0    50.0   900.0  1003.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 93.50  7047.0    73.5  7049.0    72.5 10049.0    72.5 10099.0    72.5 10149.0
GR 72.80 10200.0    72.5 10252.0    68.0 10257.0    54.1 10281.0    45.8 10299.0
GR 43.10 10310.0    41.1 10319.0    40.0 10330.0    40.0 10339.0    42.1 10359.0
GR 42.00 10369.0    41.0 10380.0    40.9 10400.0    41.9 10409.0    43.9 10419.0
GR 43.90 10460.0    45.0 10471.0    43.9 10480.0    46.1 10490.0    56.0 10510.0
GR 60.20 10520.0    70.3 10535.0    72.1 10557.0    70.3 10623.0    70.3 10649.0
GR 70.30 10680.0    70.5 10699.0    71.5 13699.0    91.5 13701.0     0.0     0.0
X1243.66    37.0 10260.2 10563.6   150.0   800.0  1003.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 94.10  7097.5    74.1  7099.5    73.1 10099.5    73.1 10200.0    73.1 10260.2
GR 66.40 10260.6    57.1 10280.1    51.0 10300.4    45.1 10309.7    44.1 10320.7
GR 40.80 10330.9    39.2 10340.4    39.0 10350.9    40.0 10360.3    40.0 10370.2
GR 41.00 10380.6    41.0 10391.1    42.0 10400.0    41.9 10409.9    44.1 10431.2
GR 44.00 10441.2    46.1 10460.5    46.0 10470.9    48.0 10490.7    52.2 10510.4
GR 55.20 10520.1    59.0 10530.4    60.9 10539.7    69.0 10563.6    70.3 10588.9
GR 71.30 10599.8    69.9 10622.3    71.1 10670.5    69.2 10700.5    70.5 10762.1
GR 71.50 13762.1    91.5 13764.1     0.0     0.0     0.0     0.0     0.0     0.0
X1243.85    35.0 10290.0 10591.0   200.0   800.0  1003.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 93.30  7048.0    73.3  7050.0    72.3 10050.0    72.3 10250.0    72.3 10290.0
GR 63.90 10293.0    52.8 10301.0    47.8 10310.0    40.8 10319.0    38.8 10331.0
GR 37.90 10341.0    38.0 10360.0    41.9 10381.0    43.0 10391.0    42.9 10401.0
GR 45.00 10419.0    44.9 10430.0    46.9 10450.0    47.1 10471.0    48.1 10480.0
GR 47.90 10489.0    50.1 10509.0    50.0 10520.0    53.0 10531.0    53.9 10541.0
GR 56.00 10549.0    64.0 10560.0    66.3 10577.0    69.5 10581.0    70.5 10591.0
GR 71.60 10649.0    70.5 10699.0    71.1 10758.0    72.1 13758.0    92.1 13760.0
X1244.04    33.0 10252.0 10526.0   600.0   650.0  1003.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 93.60  7048.0    73.6  7050.0    72.6 10050.0    72.6 10100.0    72.6 10150.0
GR 73.40 10200.0    72.6 10252.0    66.4 10254.0    51.9 10270.0    43.9 10280.0
GR 40.00 10289.0    36.0 10310.0    39.1 10320.0    42.1 10350.0    42.0 10359.0
GR 43.00 10369.0    42.9 10390.0    44.1 10402.0    44.0 10460.0    46.0 10469.0
GR 51.30 10485.0    59.3 10500.0    66.3 10515.0    69.7 10520.0    71.1 10526.0
GR 71.10 10545.0    71.1 10569.0    71.2 10584.0    72.5 10649.0    71.8 10699.0
GR 71.50 10750.0    72.5 13750.0    92.5 13752.0     0.0     0.0     0.0     0.0
X1244.23    32.0 10240.0 10560.0  1003.0  1003.0  1003.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 93.70  7038.0    73.7  7040.0    72.7 10040.0    72.7 10099.0    72.7 10149.0
GR 72.70 10240.0    66.4 10243.0    60.0 10250.0    51.1 10270.0    45.0 10281.0
GR 38.10 10300.0    36.0 10320.0    36.1 10330.0    48.1 10390.0    48.1 10400.0
GR 49.20 10410.0    49.1 10420.0    51.2 10440.0    51.1 10470.0    53.0 10489.0
GR 57.00 10509.0    61.3 10521.0    62.0 10529.0    66.4 10545.0    68.3 10548.0
GR 71.40 10560.0    71.4 10600.0    72.6 10649.0    71.4 10699.0    71.8 10761.0
GR 72.80 13761.0    92.8 13763.0     0.0     0.0     0.0     0.0     0.0     0.0
X1244.42    35.0 10236.0 10629.0  1003.0  1003.0  1003.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 94.40  7028.0    74.4  7030.0    73.4 10030.0    73.8 10129.0    73.3 10179.0
GR 71.80 10213.0    71.1 10236.0    68.6 10262.0    66.7 10286.0    64.4 10299.0
GR 64.30 10310.0    61.3 10318.0    60.5 10329.0    56.4 10337.0    54.2 10347.0
GR 53.20 10357.0    53.2 10409.0    52.3 10418.0    52.3 10439.0    46.2 10498.0
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Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

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GR 47.30 10507.0    45.2 10519.0    45.2 10529.0    46.3 10538.0    46.2 10578.0
GR 49.30 10589.0    50.4 10599.0    52.2 10609.0    58.3 10619.0    72.9 10629.0
GR 73.00 10649.0    72.9 10749.0    72.9 10799.0    73.9 13799.0    93.9 13801.0
X1244.61    35.0 10227.0 10538.0   750.0  1100.0  1003.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 93.60  7025.0    73.6  7027.0    72.6 10027.0    72.6 10099.0    72.6 10149.0
GR 72.60 10227.0    66.2 10230.0    61.1 10239.0    60.1 10249.0    58.1 10259.0
GR 57.00 10270.0    55.4 10281.0    54.3 10289.0    52.0 10300.0    48.1 10309.0
GR 48.00 10319.0    47.0 10329.0    46.9 10350.0    44.0 10378.0    43.9 10389.0
GR 42.80 10399.0    42.9 10409.0    41.1 10429.0    40.8 10459.0    41.7 10470.0
GR 45.10 10489.0    51.6 10509.0    56.2 10519.0    66.6 10529.0    70.4 10537.0
GR 70.30 10538.0    73.6 10597.0    72.4 10699.0    73.4 13699.0    93.4 13701.0
X1244.80    41.0 10240.0 10580.0   450.0   500.0  1003.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 93.80  7036.0    73.8  7038.0    72.8 10038.0    72.8 10099.0    72.8 10149.0
GR 72.80 10240.0    66.3 10251.0    61.0 10259.0    57.0 10269.0    50.0 10280.0
GR 46.90 10290.0    43.1 10310.0    38.9 10319.0    39.0 10329.0    37.9 10340.0
GR 40.00 10359.0    40.0 10371.0    43.1 10381.0    44.1 10390.0    46.1 10400.0
GR 47.10 10410.0    49.1 10419.0    50.0 10429.0    50.0 10440.0    51.2 10449.0
GR 51.10 10460.0    52.1 10470.0    52.0 10480.0    53.2 10489.0    52.1 10499.0
GR 53.10 10509.0    53.0 10529.0    60.1 10549.0    66.6 10574.0    70.5 10580.0
GR 70.60 10600.0    70.5 10700.0    70.7 10749.0    72.7 10800.0    73.7 13800.0
GR 93.70 13802.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
X1245.00    28.0 10239.0 10522.0   600.0   350.0  1056.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 94.00  7037.0    74.0  7039.0    73.0 10039.0    73.0 10239.0    70.9 10241.0
GR 63.60 10244.0    53.9 10250.0    48.0 10270.0    40.0 10280.0    37.1 10289.0
GR 34.00 10320.0    35.0 10330.0    35.1 10340.0    37.1 10360.0    37.1 10370.0
GR 35.10 10390.0    45.1 10440.0    62.1 10479.0    65.1 10490.0    66.7 10499.0
GR 70.20 10509.0    71.3 10522.0    71.4 10535.0    72.3 10540.0    72.7 10659.0
GR 72.40 10710.0    73.4 14710.0    93.4 14712.0     0.0     0.0     0.0     0.0
X1245.20    43.0 10217.0 10613.0  1550.0   200.0  1056.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 93.60  7015.0    73.6  7017.0    72.6 10017.0    73.4 10100.0    72.7 10150.0
GR 69.40 10199.0    69.4 10217.0    62.1 10251.0    61.1 10259.0    59.1 10269.0
GR 57.00 10290.0    55.2 10300.0    52.1 10309.0    48.1 10330.0    47.2 10339.0
GR 44.90 10350.0    42.3 10358.0    40.1 10369.0    39.9 10380.0    38.9 10389.0
GR 39.00 10400.0    41.0 10410.0    41.0 10419.0    42.2 10429.0    42.1 10469.0
GR 39.10 10500.0    39.1 10510.0    37.0 10530.0    42.1 10539.0    42.1 10549.0
GR 45.10 10559.0    53.1 10569.0    54.4 10580.0    58.0 10590.0    66.5 10601.0
GR 69.60 10611.0    72.8 10613.0    72.8 10649.0    72.8 10749.0    72.8 10799.0
GR 72.80 10849.0    73.8 14849.0    93.8 14851.0     0.0     0.0     0.0     0.0
X1245.40    38.0 10284.0 10610.0   150.0   150.0  1056.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 92.20  7046.0    72.2  7048.0    71.2 10048.0    71.4 10098.0    72.3 10178.0
GR 70.50 10193.0    69.6 10233.0    71.1 10263.0    68.9 10284.0    66.6 10288.0
GR 64.80 10300.0    63.1 10309.0    61.7 10321.0    59.9 10331.0    57.0 10359.0
GR 54.90 10370.0    54.9 10380.0    53.0 10398.0    53.0 10410.0    49.0 10450.0
GR 46.60 10462.0    45.0 10480.0    43.0 10490.0    41.9 10499.0    40.1 10511.0
GR 36.90 10519.0    37.9 10529.0    37.8 10549.0    39.1 10560.0    43.2 10570.0
GR 46.00 10580.0    66.4 10603.0    72.9 10610.0    72.9 10700.0    72.9 10749.0
GR 72.90 10850.0    73.9 13850.0    93.9 13852.0     0.0     0.0     0.0     0.0
X1245.60    34.0 10304.0 10607.0   350.0  1100.0  1056.0     0.0     0.0     0.0
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X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 94.00  7023.0    74.0  7025.0    73.0 10025.0    72.5 10049.0    72.7 10149.0
GR 71.40 10199.0    68.7 10254.0    68.7 10288.0    68.7 10304.0    66.5 10310.0
GR 64.90 10340.0    52.0 10349.0    49.1 10380.0    46.8 10390.0    37.9 10420.0
GR 35.90 10430.0    36.0 10450.0    34.8 10461.0    35.0 10491.0    38.0 10499.0
GR 37.80 10520.0    35.8 10530.0    35.8 10540.0    37.0 10550.0    44.7 10569.0
GR 48.00 10580.0    54.2 10590.0    66.8 10600.0    73.2 10607.0    73.2 10650.0
GR 73.20 10699.0    73.2 10809.0    74.2 13809.0    94.2 13811.0     0.0     0.0
X1245.80    41.0 10282.0 10632.0   400.0   450.0  1056.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 94.20  7097.0    74.2  7099.0    73.2 10099.0    73.2 10149.0    73.2 10200.0
GR 73.50 10249.0    73.2 10282.0    66.6 10287.0    60.9 10300.0    58.0 10310.0
GR 57.00 10319.0    53.0 10328.0    49.1 10339.0    46.9 10351.0    46.0 10360.0
GR 46.10 10369.0    44.0 10390.0    44.1 10430.0    45.1 10440.0    45.1 10451.0
GR 46.90 10460.0    47.1 10480.0    48.0 10490.0    49.9 10499.0    48.9 10510.0
GR 51.80 10520.0    52.9 10550.0    55.0 10561.0    59.0 10570.0    62.1 10579.0
GR 63.90 10590.0    65.1 10601.0    70.6 10630.0    72.3 10632.0    72.4 10650.0
GR 72.30 10699.0    72.3 10749.0    72.3 10800.0    72.3 10849.0    73.3 13849.0
GR 93.30 13851.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
X1246.00    34.0 10287.0 10606.0   400.0   300.0  1056.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 94.90  7047.0    74.9  7049.0    73.9 10049.0    73.9 10100.0    73.9 10150.0
GR 73.90 10199.0    73.9 10249.0    73.9 10287.0    66.3 10290.0    37.9 10329.0
GR 36.10 10349.0    35.9 10359.0    36.7 10369.0    38.9 10380.0    41.8 10389.0
GR 41.90 10399.0    44.9 10428.0    44.9 10440.0    48.0 10469.0    47.9 10480.0
GR 48.90 10489.0    51.6 10498.0    55.9 10509.0    60.7 10519.0    64.0 10530.0
GR 66.40 10545.0    69.5 10556.0    70.1 10588.0    71.8 10606.0    71.8 10650.0
GR 71.80 10750.0    71.8 10810.0    72.8 13810.0    92.8 13812.0     0.0     0.0
X1246.20    30.0 10241.0 10563.0   850.0   300.0  1056.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 93.80  7036.0    73.8  7038.0    72.8 10038.0    73.2 10149.0    73.7 10224.0
GR 72.80 10241.0    47.8 10259.0    44.9 10269.0    38.1 10279.0    34.9 10309.0
GR 35.00 10319.0    33.9 10329.0    34.0 10338.0    29.9 10379.0    47.8 10430.0
GR 49.80 10438.0    54.9 10458.0    57.7 10488.0    61.8 10499.0    61.8 10508.0
GR 62.60 10519.0    66.4 10537.0    70.0 10563.0    72.3 10599.0    73.3 10648.0
GR 72.60 10699.0    72.8 10748.0    72.2 10797.0    73.2 13797.0    93.2 13799.0
X1246.60    36.0 10253.0 10589.0   100.0   700.0  2112.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 92.20  7047.0    72.2  7049.0    71.2 10049.0    70.7 10100.0    71.8 10149.0
GR 71.50 10223.0    70.0 10253.0    66.7 10256.0    64.9 10268.0    59.0 10289.0
GR 54.10 10298.0    51.9 10319.0    52.0 10330.0    49.1 10350.0    46.9 10371.0
GR 44.70 10378.0    42.1 10410.0    39.8 10419.0    39.9 10429.0    41.0 10438.0
GR 38.80 10451.0    43.0 10470.0    41.7 10480.0    43.0 10490.0    42.9 10500.0
GR 44.80 10509.0    47.0 10529.0    53.9 10549.0    55.8 10559.0    66.4 10580.0
GR 72.80 10589.0    72.8 10698.0    72.8 10748.0    72.8 10797.0    73.8 13797.0
GR 93.80 13799.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
X1246.80    39.0 10274.0 10617.0   150.0  1300.0  1056.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 93.90  6046.0    73.9  6048.0    72.9 10048.0    70.8 10099.0    72.1 10149.0
GR 72.70 10198.0    72.6 10249.0    70.1 10274.0    66.7 10296.0    64.2 10318.0
GR 60.10 10328.0    58.3 10337.0    54.0 10349.0    52.3 10358.0    50.0 10379.0
GR 50.10 10398.0    45.0 10448.0    45.1 10459.0    43.1 10469.0    42.0 10479.0
GR 42.10 10488.0    39.9 10508.0    41.0 10519.0    39.8 10528.0    41.1 10538.0
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GR 44.10 10549.0    47.0 10558.0    49.0 10569.0    54.1 10578.0    56.9 10588.0
GR 58.00 10597.0    66.8 10611.0    74.4 10617.0    74.4 10648.0    74.4 10698.0
GR 74.40 10748.0    74.4 10847.0    75.4 13847.0    95.4 13849.0     0.0     0.0
X1247.00    36.0 10267.0 10579.0   600.0  1300.0  1056.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 93.80  6046.0    73.8  6048.0    72.8 10048.0    73.2 10098.0    72.9 10149.0
GR 71.30 10219.0    72.5 10248.0    70.9 10267.0    70.3 10275.0    66.4 10281.0
GR 60.90 10299.0    59.1 10310.0    58.0 10319.0    53.0 10340.0    50.9 10359.0
GR 42.80 10399.0    42.0 10409.0    42.0 10418.0    40.9 10429.0    39.0 10439.0
GR 39.00 10449.0    35.9 10480.0    37.0 10489.0    36.9 10499.0    38.6 10509.0
GR 45.10 10529.0    44.7 10549.0    53.6 10563.0    66.6 10578.0    72.9 10579.0
GR 73.60 10648.0    72.9 10698.0    72.9 10749.0    72.9 10798.0    73.9 13798.0
GR 93.90 13800.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
X1247.20    28.0 10256.0 10529.0   850.0  1200.0  1056.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 94.60  7047.0    74.6  7049.0    73.6 10049.0    74.3 10099.0    74.0 10150.0
GR 74.00 10198.0    72.4 10256.0    66.8 10259.0    55.7 10279.0    44.2 10308.0
GR 43.20 10319.0    41.2 10329.0    41.1 10378.0    37.8 10390.0    38.1 10419.0
GR 36.00 10440.0    38.0 10459.0    43.9 10469.0    47.0 10479.0    46.2 10489.0
GR 52.40 10510.0    70.8 10529.0    73.8 10600.0    73.3 10649.0    73.2 10698.0
GR 72.70 10748.0    73.7 13748.0    93.7 13750.0     0.0     0.0     0.0     0.0
X1247.40    37.0 10243.5 10545.3   300.0   700.0  1056.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 95.40  7038.3    75.4  7040.3    74.4 10040.3    75.0 10098.5    75.0 10150.3
GR 72.90 10231.3    71.4 10243.5    66.9 10252.0    61.0 10259.8    55.8 10269.5
GR 52.10 10279.0    48.9 10311.3    49.0 10320.8    47.1 10330.5    45.0 10350.7
GR 43.10 10360.4    43.0 10369.9    40.8 10381.2    39.9 10390.8    38.0 10400.0
GR 36.80 10410.6    36.8 10431.0    38.9 10439.2    38.8 10450.2    40.9 10470.9
GR 43.40 10481.0    48.0 10493.8    52.2 10510.2    67.0 10545.0    72.4 10545.3
GR 72.90 10550.7    73.6 10598.9    73.3 10649.8    73.4 10699.6    72.9 10750.5
GR 73.90 13750.5    93.9 13752.5     0.0     0.0     0.0     0.0     0.0     0.0
X1247.60    36.0 10273.0 10607.0   700.0   250.0  1056.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 95.20  7048.0    75.2  7050.0    74.2 10050.0    74.2 10099.0    74.2 10149.0
GR 74.20 10199.0    74.2 10273.0    66.2 10277.0    53.0 10289.0    48.1 10300.0
GR 42.20 10320.0    44.1 10340.0    42.9 10350.0    42.9 10359.0    43.8 10370.0
GR 46.00 10379.0    47.0 10390.0    47.1 10409.0    48.2 10419.0    48.1 10440.0
GR 49.20 10449.0    49.0 10460.0    50.9 10479.0    51.0 10519.0    55.2 10559.0
GR 60.20 10569.0    64.0 10578.0    66.7 10598.0    70.3 10607.0    71.2 10624.0
GR 70.30 10648.0    70.3 10699.0    71.3 10750.0    72.6 10808.0    73.6 13808.0
GR 93.60 13810.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
X1247.80    37.0 10259.0 10612.0  1200.0   300.0  1056.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 92.50  7048.0    72.5  7050.0    71.5 10050.0    71.4 10099.0    71.5 10149.0
GR 71.30 10200.0    70.4 10259.0    66.9 10282.0    65.0 10299.0    65.2 10309.0
GR 58.80 10320.0    53.8 10330.0    50.0 10369.0    50.0 10389.0    48.0 10409.0
GR 48.00 10419.0    47.0 10429.0    47.2 10439.0    44.1 10448.0    42.9 10459.0
GR 37.80 10488.0    37.9 10509.0    36.9 10518.0    37.1 10530.0    39.9 10538.0
GR 45.20 10549.0    49.0 10569.0    55.0 10578.0    58.2 10588.0    66.9 10597.0
GR 73.90 10612.0    74.1 10658.0    73.9 10698.0    73.9 10748.0    73.9 10847.0
GR 74.90 13847.0    94.9 13849.0     0.0     0.0     0.0     0.0     0.0     0.0
X1248.00    36.0 10260.0 10566.0  1056.0  1056.0  1056.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
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GR 93.30  7097.0    73.3  7099.0    72.3 10099.0    72.3 10148.0    73.9 10200.0
GR 73.00 10248.0    72.3 10260.0    66.5 10264.0    56.9 10286.0    46.8 10300.0
GR 42.90 10319.0    42.9 10340.0    41.9 10350.0    42.1 10360.0    40.9 10370.0
GR 41.20 10410.0    39.9 10420.0    41.2 10431.0    40.0 10439.0    40.0 10470.0
GR 42.20 10480.0    42.1 10490.0    44.2 10500.0    48.9 10509.0    51.1 10519.0
GR 55.10 10529.0    66.9 10548.0    70.6 10561.0    74.4 10566.0    74.6 10570.0
GR 74.40 10598.0    74.4 10648.0    74.4 10699.0    74.4 10749.0    75.4 13749.0
GR 95.40 13751.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
X1248.20    44.0 10259.0 10617.0  1056.0  1056.0  1056.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 95.40  7047.0    75.4  7049.0    74.4 10049.0    74.4 10098.0    74.4 10149.0
GR 75.40 10199.0    74.4 10259.0    67.3 10265.0    60.0 10279.0    57.0 10289.0
GR 55.00 10299.0    52.1 10329.0    49.9 10339.0    49.2 10350.0    47.1 10359.0
GR 44.20 10369.0    41.8 10379.0    41.0 10389.0    40.9 10399.0    43.1 10418.0
GR 43.00 10428.0    44.9 10439.0    46.1 10449.0    46.1 10469.0    47.2 10478.0
GR 47.00 10509.0    48.8 10518.0    51.8 10528.0    54.1 10538.0    56.2 10559.0
GR 61.20 10568.0    62.1 10578.0    64.9 10588.0    67.2 10602.0    71.5 10615.0
GR 73.70 10617.0    73.7 10649.0    74.0 10698.0    73.7 10712.0    73.7 10748.0
GR 73.70 10799.0    73.7 10848.0    74.7 13848.0    94.7 13850.0     0.0     0.0
X1248.40    38.0 10267.0 10626.0  1056.0  1056.0  1056.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 96.30  7097.0    76.3  7099.0    75.3 10099.0    74.3 10149.0    75.3 10199.0
GR 73.50 10248.0    73.3 10267.0    67.0 10271.0    61.1 10278.0    55.1 10289.0
GR 40.00 10329.0    39.9 10359.0    41.9 10379.0    42.1 10390.0    43.1 10401.0
GR 43.00 10420.0    45.2 10430.0    48.0 10459.0    48.0 10471.0    50.2 10488.0
GR 50.00 10510.0    53.1 10540.0    56.1 10550.0    57.2 10559.0    60.1 10569.0
GR 61.10 10579.0    65.1 10599.0    65.1 10608.0    66.9 10620.0    73.8 10626.0
GR 74.00 10648.0    73.8 10670.0    73.8 10700.0    73.8 10749.0    73.8 10799.0
GR 73.80 10848.0    74.8 13848.0    94.8 13850.0     0.0     0.0     0.0     0.0
X1248.60    29.0 10281.0 10595.0  1056.0  1056.0  1056.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 95.90  7097.0    75.9  7099.0    74.9 10099.0    74.9 10150.0    74.9 10200.0
GR 74.90 10281.0    60.1 10298.0    51.7 10310.0    47.0 10319.0    43.0 10339.0
GR 41.90 10349.0    41.9 10369.0    41.1 10380.0    42.0 10389.0    41.9 10471.0
GR 43.20 10480.0    42.7 10509.0    45.8 10520.0    48.3 10540.0    67.0 10572.0
GR 73.40 10581.0    72.6 10595.0    72.6 10606.0    72.6 10636.0    72.6 10664.0
GR 73.10 10682.0    74.5 10732.0    75.5 13732.0    95.5 13734.0     0.0     0.0
X1248.80    39.0 10280.0 10550.0  1056.0  1056.0  1056.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 96.20  7047.0    76.2  7049.0    75.2 10049.0    75.2 10098.0    75.2 10149.0
GR 75.20 10198.0    75.3 10249.0    75.2 10280.0    67.2 10284.0    54.5 10299.0
GR 47.90 10309.0    47.1 10320.0    44.0 10328.0    41.8 10340.0    42.0 10361.0
GR 40.80 10368.0    41.0 10380.0    39.7 10389.0    42.0 10400.0    44.9 10428.0
GR 44.90 10459.0    46.1 10469.0    44.9 10479.0    45.0 10489.0    51.1 10509.0
GR 52.10 10520.0    56.1 10530.0    63.1 10540.0    67.3 10547.0    72.5 10550.0
GR 72.60 10556.0    72.5 10563.0    72.5 10598.0    72.5 10648.0    72.5 10662.0
GR 72.50 10699.0    72.5 10750.0    73.5 13750.0    93.5 13752.0     0.0     0.0
X1249.00    39.0 10268.2 10624.1  1056.0  1056.0  1056.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 95.50  7048.3    75.5  7050.3    74.5 10050.3    74.7 10099.7    74.4 10149.6
GR 74.20 10268.2    74.3 10268.3    67.7 10270.2    61.3 10280.2    59.9 10290.6
GR 53.50 10299.1    49.0 10310.1    45.9 10319.5    41.1 10330.5    41.1 10341.5
GR 42.30 10350.9    42.4 10360.4    41.2 10370.9    41.1 10381.4    42.2 10390.3
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GR 40.30 10400.8    41.0 10410.3    43.3 10420.2    44.3 10430.7    46.4 10440.2
GR 50.00 10479.6    52.2 10490.5    55.2 10520.4    58.3 10530.4    64.9 10549.4
GR 67.40 10559.3    71.3 10584.7    73.5 10624.1    74.7 10644.6    74.4 10749.8
GR 74.50 10799.1    74.2 10824.5    75.2 13824.5    95.2 13826.5     0.0     0.0
X1249.20    31.0 10249.5 10559.3  1056.0  1056.0  1056.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 93.50  7038.2    73.5  7040.2    72.5 10040.2    72.3 10100.4    73.1 10240.4
GR 71.50 10249.5    56.7 10280.9    49.9 10289.7    47.9 10301.2    45.0 10310.8
GR 42.70 10330.3    42.8 10390.1    40.9 10410.1    41.0 10430.6    39.1 10461.0
GR 37.70 10471.0    40.0 10480.4    40.0 10491.9    43.0 10502.2    45.9 10510.6
GR 50.80 10520.8    52.4 10531.7    58.8 10550.4    67.2 10558.6    73.7 10559.3
GR 73.70 10560.3    75.2 10600.1    74.6 10649.9    74.5 10760.6    75.5 13760.6
GR 95.50 13762.6     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
X1249.40    34.0 10237.0 10570.0  1056.0  1056.0  1056.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 95.60  7036.0    75.6  7038.0    74.6 10038.0    74.4 10100.0    75.0 10148.0
GR 74.40 10199.0    72.5 10237.0    67.5 10243.0    64.8 10259.0    65.0 10279.0
GR 64.00 10290.0    49.2 10319.0    46.9 10339.0    46.9 10349.0    44.9 10369.0
GR 46.00 10380.0    45.3 10388.0    44.9 10409.0    45.9 10419.0    44.0 10440.0
GR 39.90 10459.0    39.8 10499.0    41.0 10509.0    41.0 10518.0    46.8 10530.0
GR 52.00 10539.0    55.0 10550.0    67.3 10567.0    72.3 10570.0    75.5 10598.0
GR 73.80 10698.0    73.7 10798.0    74.7 13798.0    94.7 13800.0     0.0     0.0
X1249.80    38.0 10226.0 10523.0  2112.0  2112.0  2112.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 95.90  7022.0    75.9  7024.0    74.9 10024.0    74.5 10048.0    74.4 10063.0
GR 72.70 10082.0    71.3 10100.0    72.2 10124.0    73.7 10138.0    72.1 10156.0
GR 71.30 10194.0    71.3 10226.0    67.0 10234.0    60.9 10250.0    59.9 10260.0
GR 44.90 10290.0    42.9 10301.0    39.9 10309.0    39.7 10320.0    37.9 10339.0
GR 38.00 10370.0    35.8 10390.0    34.0 10421.0    33.9 10432.0    35.0 10440.0
GR 36.80 10451.0    40.8 10459.0    51.0 10481.0    50.1 10490.0    60.3 10500.0
GR 67.40 10513.0    75.9 10523.0    75.9 10550.0    75.9 10599.0    75.9 10699.0
GR 75.90 10729.0    76.9 13729.0    96.9 13731.0     0.0     0.0     0.0     0.0
X1250.00    37.0 10259.0 10621.0  1056.0  1056.0  1056.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 96.50  7046.0    76.5  7048.0    75.5 10048.0    75.5 10062.0    75.5 10112.0
GR 75.50 10149.0    75.5 10199.0    75.5 10259.0    69.5 10263.0    65.9 10280.0
GR 55.00 10309.0    51.9 10319.0    47.0 10329.0    46.0 10339.0    46.0 10360.0
GR 40.00 10379.0    38.9 10389.0    40.0 10399.0    40.1 10410.0    41.1 10419.0
GR 41.00 10430.0    43.0 10439.0    43.0 10460.0    44.0 10469.0    44.0 10490.0
GR 45.00 10499.0    49.2 10509.0    53.0 10549.0    59.2 10569.0    67.0 10609.0
GR 69.80 10615.0    75.7 10621.0    76.7 10649.0    75.7 10749.0    75.7 10849.0
GR 76.70 13849.0    96.7 13851.0     0.0     0.0     0.0     0.0     0.0     0.0
X1250.20    39.0 10303.0 10623.0  1056.0  1056.0  1056.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 94.90  7057.0    74.9  7059.0    73.9 10059.0    73.9 10109.0    73.9 10159.0
GR 74.70 10199.0    74.6 10249.0    73.9 10280.0    73.9 10303.0    69.7 10309.0
GR 60.10 10340.0    55.1 10349.0    54.0 10358.0    52.1 10369.0    51.0 10379.0
GR 51.00 10389.0    49.0 10409.0    48.9 10419.0    48.0 10429.0    47.9 10449.0
GR 45.10 10479.0    45.0 10489.0    44.0 10498.0    44.1 10508.0    42.9 10518.0
GR 37.00 10539.0    35.1 10550.0    34.1 10560.0    40.1 10579.0    47.2 10590.0
GR 61.40 10599.0    63.0 10609.0    69.8 10618.0    75.9 10623.0    75.9 10649.0
GR 76.00 10699.0    75.9 10849.0    76.9 13849.0    96.9 13851.0     0.0     0.0
X1250.80    31.0 10255.0 10554.0  3168.0  3168.0  3168.0     0.0     0.0     0.0
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X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 96.20  7046.0    76.2  7048.0    75.2 10048.0    75.2 10255.0    56.3 10269.0
GR 47.40 10294.0    43.1 10309.0    40.8 10320.0    37.1 10329.0    34.9 10340.0
GR 35.10 10349.0    33.9 10359.0    34.0 10370.0    32.8 10379.0    33.0 10390.0
GR 39.20 10418.0    40.0 10430.0    42.2 10438.0    41.1 10448.0    41.2 10459.0
GR 44.00 10489.0    61.1 10518.0    67.7 10554.0    69.0 10597.0    69.7 10630.0
GR 68.80 10648.0    73.6 10699.0    74.4 10745.0    73.8 10753.0    74.8 13753.0
GR 94.80 13755.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
X1251.20    32.0 10280.1 10620.9  2118.0  2118.0  2118.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 94.60  7047.7    74.6  7049.7    73.6 10049.7    73.6 10090.5    73.6 10129.0
GR 73.60 10149.9    73.6 10174.7    74.6 10209.8    73.7 10248.7    73.6 10280.1
GR 69.90 10299.2    61.0 10330.0    57.1 10339.6    55.2 10350.2    54.0 10359.7
GR 54.00 10389.5    53.1 10399.0    53.2 10410.5    47.1 10470.0    47.2 10480.5
GR 44.00 10509.5    44.1 10520.0    45.1 10529.9    45.0 10569.2    46.1 10579.1
GR 58.20 10609.8    70.0 10620.2    76.0 10620.9    76.0 10650.3    76.0 10849.4
GR 77.00 13849.4    97.0 13851.4     0.0     0.0     0.0     0.0     0.0     0.0
X1251.40    42.0 10221.0 10594.0  1056.0  1056.0  1056.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 94.70  7047.0    74.7  7049.0    73.7 10049.0    73.7 10148.0    73.7 10199.0
GR 73.70 10221.0    69.9 10259.0    70.1 10265.0    59.2 10278.0    49.1 10299.0
GR 45.90 10310.0    41.9 10329.0    40.7 10340.0    40.8 10350.0    40.0 10359.0
GR 40.90 10369.0    40.9 10379.0    39.8 10390.0    39.9 10410.0    41.0 10420.0
GR 41.00 10430.0    40.0 10441.0    39.9 10450.0    41.0 10460.0    40.9 10470.0
GR 39.90 10480.0    41.9 10489.0    41.9 10499.0    44.0 10510.0    54.9 10539.0
GR 60.20 10549.0    62.0 10559.0    63.1 10569.0    70.2 10584.0    75.6 10594.0
GR 75.60 10599.0    76.8 10650.0    76.4 10699.0    75.6 10749.0    75.6 10799.0
GR 76.60 13799.0    96.6 13801.0     0.0     0.0     0.0     0.0     0.0     0.0
X1251.60    35.0 10273.0 10610.0  1056.0  1056.0  1056.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 98.30  7046.0    78.3  7048.0    77.3 10048.0    77.3 10098.0    77.3 10149.0
GR 77.30 10248.0    77.3 10273.0    69.9 10279.0    61.9 10289.0    56.8 10300.0
GR 41.80 10339.0    41.0 10349.0    41.2 10358.0    41.8 10369.0    42.1 10399.0
GR 42.70 10410.0    42.9 10440.0    43.8 10449.0    43.9 10459.0    42.8 10469.0
GR 42.90 10519.0    44.6 10539.0    53.3 10560.0    61.0 10568.0    62.1 10579.0
GR 70.10 10596.0    72.3 10598.0    73.5 10610.0    73.5 10629.0    73.5 10653.0
GR 73.90 10699.0    76.5 10749.0    75.3 10808.0    76.3 13808.0    96.3 13810.0
X1251.80    36.0 10271.0 10619.0  1056.0  1056.0  1056.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 97.80  7047.0    77.8  7049.0    76.8 10049.0    76.8 10098.0    76.8 10148.0
GR 76.80 10198.0    77.7 10248.0    76.8 10271.0    70.1 10275.0    60.0 10289.0
GR 56.50 10300.0    46.9 10319.0    44.0 10328.0    44.1 10339.0    42.1 10349.0
GR 40.00 10368.0    42.1 10379.0    43.0 10389.0    45.1 10399.0    44.9 10419.0
GR 46.10 10428.0    46.0 10439.0    47.2 10449.0    46.0 10458.0    48.0 10478.0
GR 48.00 10529.0    50.1 10549.0    58.0 10569.0    74.1 10619.0    75.5 10641.0
GR 75.00 10699.0    76.4 10749.0    76.0 10798.0    74.1 10848.0    75.1 13848.0
GR 95.10 13850.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
X1252.00    34.0 10283.0 10620.0  1056.0  1056.0  1056.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 97.60  7045.0    77.6  7047.0    76.6 10047.0    76.6 10098.0    76.6 10148.0
GR 76.60 10199.0    76.8 10272.0    76.6 10283.0    54.7 10300.0    41.0 10339.0
GR 38.90 10351.0    38.0 10359.0    36.0 10370.0    32.9 10398.0    34.0 10409.0
GR 36.10 10420.0    36.0 10430.0    40.2 10440.0    41.1 10450.0    41.2 10479.0
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GR 46.90 10539.0    53.1 10559.0    57.1 10580.0    64.1 10599.0    70.2 10608.0
GR 73.10 10620.0    74.4 10648.0    74.6 10699.0    74.4 10748.0    73.3 10773.0
GR 73.10 10799.0    73.1 10809.0    74.1 13809.0    94.1 13811.0     0.0     0.0
X1252.20    37.0 10235.0 10562.0  1056.0  1056.0  1056.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 95.70  7027.0    75.7  7029.0    74.7 10029.0    74.7 10049.0    74.7 10098.0
GR 74.70 10124.0    75.4 10144.0    74.7 10169.0    74.7 10199.0    75.6 10214.0
GR 74.70 10235.0    72.9 10243.0    70.2 10250.0    57.8 10289.0    52.2 10299.0
GR 46.90 10347.0    47.2 10358.0    44.9 10378.0    45.2 10389.0    42.1 10398.0
GR 42.10 10408.0    39.1 10437.0    40.1 10449.0    39.0 10457.0    39.1 10467.0
GR 37.80 10478.0    40.0 10498.0    45.2 10511.0    50.1 10527.0    55.0 10539.0
GR 60.00 10544.0    65.2 10549.0    70.4 10557.0    76.2 10562.0    76.2 10756.0
GR 77.20 13756.0    97.2 13758.0     0.0     0.0     0.0     0.0     0.0     0.0
X1252.40    42.0 10249.0 10627.0  1056.0  1056.0  1056.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 96.00  7095.0    76.0  7097.0    75.0 10097.0    74.6 10149.0    75.4 10198.0
GR 74.60 10249.0    70.6 10266.0    63.8 10280.0    60.2 10298.0    59.0 10310.0
GR 53.60 10320.0    51.0 10328.0    49.9 10339.0    51.0 10349.0    51.2 10370.0
GR 49.90 10380.0    50.1 10390.0    45.9 10420.0    43.9 10439.0    44.9 10450.0
GR 41.90 10478.0    42.3 10489.0    37.9 10528.0    38.0 10537.0    40.7 10550.0
GR 41.00 10559.0    42.0 10569.0    45.1 10580.0    51.3 10589.0    54.1 10599.0
GR 60.20 10609.0    70.2 10621.0    75.7 10627.0    76.3 10647.0    76.2 10698.0
GR 75.70 10777.0    75.7 10789.0    75.7 10812.0    75.7 10828.0    76.1 10848.0
GR 77.10 13848.0    97.1 13850.0     0.0     0.0     0.0     0.0     0.0     0.0
X1252.60    39.0 10229.0 10554.0  1056.0  1056.0  1056.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 95.50  7047.0    75.5  7049.0    74.5 10049.0    76.1 10099.0    76.5 10149.0
GR 74.40 10199.0    72.7 10229.0    61.1 10248.0    58.0 10259.0    57.2 10269.0
GR 48.00 10299.0    49.0 10309.0    48.1 10319.0    43.1 10328.0    42.7 10339.0
GR 44.00 10350.0    45.8 10359.0    43.9 10370.0    43.1 10380.0    43.0 10409.0
GR 40.90 10429.0    41.0 10439.0    40.0 10449.0    39.9 10470.0    42.0 10479.0
GR 42.00 10489.0    44.2 10500.0    47.0 10510.0    50.0 10516.0    60.2 10539.0
GR 67.30 10550.0    70.4 10553.0    75.6 10554.0    76.2 10599.0    76.2 10649.0
GR 75.70 10698.0    76.7 10754.0    77.7 13754.0    97.7 13756.0     0.0     0.0
X1252.80    39.0 10234.0 10569.0  1056.0  1056.0  1056.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR 96.70  7027.0    76.7  7029.0    75.7 10029.0    76.5 10052.0    77.6 10139.0
GR 75.10 10168.0    75.2 10194.0    73.5 10208.0    71.9 10234.0    70.5 10240.0
GR 62.10 10259.0    59.8 10279.0    49.2 10298.0    45.9 10309.0    43.9 10320.0
GR 43.00 10331.0    42.9 10339.0    42.0 10349.0    42.1 10359.0    41.0 10368.0
GR 41.00 10409.0    41.9 10419.0    40.8 10429.0    41.1 10449.0    40.0 10459.0
GR 40.10 10499.0    50.4 10529.0    55.3 10539.0    59.1 10550.0    61.0 10560.0
GR 70.50 10567.0    76.3 10569.0    76.3 10600.0    76.6 10649.0    76.3 10699.0
GR 76.60 10749.0    76.3 10799.0    77.3 13799.0    97.3 13801.0     0.0     0.0
X1253.00    40.0 10230.0 10594.0  1056.0  1056.0  1056.0     0.0     0.0     0.0
X3 10.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
GR  96.5  7026.0    76.5  7028.0    75.5 10028.0    75.6 10079.0    75.5 10130.0
GR  77.6 10179.0    77.7 10197.0    76.4 10209.0    75.5 10230.0    70.5 10236.0
GR  62.0 10250.0    60.0 10259.0    55.9 10269.0    48.8 10279.0    45.8 10288.0
GR  44.0 10309.0    44.0 10329.0    45.0 10338.0    43.9 10348.0    45.9 10359.0
GR  47.0 10369.0    47.2 10398.0    49.0 10409.0    49.1 10438.0    47.9 10448.0
GR  48.1 10468.0    46.9 10478.0    47.0 10509.0    46.0 10519.0    45.9 10529.0
GR  44.9 10538.0    49.1 10558.0    53.0 10568.0    66.6 10584.0    76.3 10594.0
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GR  76.5 10649.0    76.3 10749.0    76.3 10798.0    77.3 13798.0    97.3 13800.0
X1253.20     44.   10228   10657    1056    1056    1056
X3    10
GR  97.4  7016.0    77.4  7018.0    76.4 10018.0    76.4 10041.0    76.4 10100.0
GR  76.4 10200.0    76.4 10218.0    76.4 10228.0    70.4 10234.0    63.0 10270.0
GR  61.9 10280.0    60.1 10289.0    52.2 10309.0    37.9 10329.0    36.0 10339.0
GR  34.9 10350.0    28.9 10370.0    25.9 10400.0    23.9 10410.0    22.9 10420.0
GR  22.9 10430.0    24.0 10439.0    22.9 10450.0    23.0 10460.0    22.0 10470.0
GR  21.9 10479.0    23.9 10500.0    31.0 10520.0    34.9 10539.0    39.0 10579.0
GR  41.0 10589.0    47.0 10610.0    51.3 10630.0    54.1 10639.0    70.9 10654.0
GR  72.8 10657.0    76.4 10677.0    76.9 10699.0    76.4 10749.0    76.4 10799.0
GR  74.7 10848.0    74.4 10898.0    75.4 13898.0    95.4 13900.0
X1253.40     39. 10283.7 10635.6    1056    1056    1056
X3    10
GR  98.5  7097.1    78.5  7099.1    77.5 10099.1    77.5 10149.8    77.5 10283.7
GR  61.9 10298.7    55.9 10309.1    53.0 10319.1    46.8 10329.5    44.1 10339.0
GR  41.9 10358.9    42.0 10388.8    43.0 10399.2    45.1 10408.7    46.0 10419.1
GR  46.1 10439.0    47.1 10449.5    47.2 10479.8    48.1 10488.8    47.9 10498.8
GR  49.1 10508.2    49.1 10518.7    50.1 10528.6    50.0 10560.5    51.0 10569.4
GR  53.0 10578.4    56.1 10589.3    60.0 10598.8    61.9 10608.8    70.6 10629.7
GR  72.5 10629.8    74.6 10635.6    75.1 10649.1    74.6 10664.0    74.6 10700.3
GR  74.6 10750.1    74.6 10798.9    75.6 13798.9    95.6 13800.9
X1253.80     35.   10276   10671    2118    2118    2118
X3    10
GR  98.5  7037.0    78.5  7039.0    77.5 10039.0    77.9 10189.0    77.5 10200.0
GR  77.5 10276.0    67.0 10290.0    62.9 10299.0    61.1 10309.0    44.0 10338.0
GR  37.9 10359.0    38.0 10369.0    41.8 10389.0    44.0 10408.0    43.0 10419.0
GR  45.0 10437.0    45.0 10479.0    46.0 10489.0    46.0 10498.0    47.8 10518.0
GR  49.9 10528.0    50.9 10538.0    53.0 10548.0    54.0 10559.0    56.0 10569.0
GR  57.9 10588.0    63.8 10608.0    70.5 10638.0    72.0 10671.0    72.0 10699.0
GR  73.1 10750.0    75.8 10799.0    75.6 10839.0    76.6 13839.0    96.6 13841.0
X1254.00     40.   10259   10684    1056    1056    1056
X3    10
GR  98.4  7047.0    78.4  7049.0    77.4 10049.0    77.4 10068.0    77.4 10086.0
GR  77.4 10099.0    77.4 10142.0    77.4 10156.0    77.4 10259.0    70.7 10267.0
GR  61.2 10289.0    57.0 10299.0    52.2 10309.0    49.0 10319.0    49.0 10329.0
GR  46.1 10339.0    46.2 10359.0    45.0 10369.0    44.9 10509.0    44.0 10518.0
GR  44.0 10528.0    45.0 10539.0    48.9 10548.0    50.1 10559.0    51.9 10568.0
GR  55.0 10599.0    59.2 10618.0    68.1 10649.0    71.4 10663.0    74.7 10684.0
GR  76.6 10714.0    76.5 10749.0    75.7 10762.0    74.7 10771.0    74.7 10782.0
GR  75.2 10793.0    76.7 10815.0    76.4 10849.0    77.4 13849.0    97.4 13851.0
X1254.20     36.   10200   10642    1056    1056    1056
X3    10
GR  98.5  7048.0    78.5  7050.0    77.5 10050.0    78.0 10100.0    77.6 10150.0
GR  74.5 10200.0    72.5 10250.0    70.6 10268.0    65.8 10280.0    63.0 10291.0
GR  48.9 10320.0    42.7 10351.0    39.9 10360.0    37.8 10371.0    37.9 10391.0
GR  40.0 10409.0    40.0 10420.0    42.0 10439.0    42.0 10460.0    43.0 10469.0
GR  42.0 10481.0    42.9 10489.0    43.0 10510.0    45.1 10530.0    47.1 10540.0
GR  50.0 10569.0    54.1 10589.0    56.9 10600.0    61.9 10610.0    67.0 10630.0
GR  70.6 10637.0    77.4 10642.0    77.4 10750.0    77.6 10800.0    78.6 13800.0
GR  98.6 13802.0
X1254.60     40.   10248   10609    2112    2112    2112
X3    10
```

Subsegment 080101
Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

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GR  98.4  7047.0    78.4  7049.0    77.4 10049.0    77.0 10075.0    77.8 10128.0
GR  76.1 10149.0    76.2 10175.0    73.5 10204.0    73.5 10228.0    73.5 10248.0
GR  71.0 10252.0    60.9 10280.0    53.0 10300.0    49.0 10319.0    46.2 10350.0
GR  46.0 10381.0    44.1 10389.0    44.1 10399.0    45.3 10409.0    45.1 10418.0
GR  44.1 10431.0    44.2 10439.0    43.2 10449.0    43.2 10468.0    41.1 10489.0
GR  41.1 10499.0    42.2 10508.0    44.4 10519.0    47.3 10529.0    49.2 10549.0
GR  59.4 10579.0    62.8 10590.0    70.8 10602.0    78.8 10609.0    78.8 10650.0
GR  78.8 10699.0    78.8 10749.0    78.8 10849.0    79.8 13849.0    99.8 13851.0
X1255.00     44.   10254   10633    2112    2112    2112
X3    10
GR  98.6  7046.0    78.6  7048.0    77.6 10048.0    78.3 10099.0    76.5 10156.0
GR  73.3 10178.0    73.4 10199.0    74.4 10208.0    71.0 10254.0    61.9 10299.0
GR  59.0 10311.0    56.9 10320.0    51.8 10330.0    49.9 10339.0    47.0 10349.0
GR  46.0 10358.0    43.6 10369.0    44.0 10378.0    42.9 10388.0    43.2 10419.0
GR  40.9 10430.0    42.1 10438.0    39.2 10467.0    39.0 10489.0    39.9 10498.0
GR  39.9 10509.0    44.0 10519.0    43.8 10530.0    41.0 10539.0    43.8 10548.0
GR  43.9 10560.0    42.9 10567.0    45.1 10579.0    47.8 10589.0    52.0 10599.0
GR  59.1 10620.0    74.6 10633.0    76.5 10649.0    79.1 10650.0    78.6 10699.0
GR  78.6 10749.0    77.6 10799.0    78.6 13799.0    98.6 13801.0
X1255.20     36.   10249   10610    1056    1056    1056
X3    10
GR  97.9  7043.0    77.9  7045.0    76.9 10045.0    77.4 10100.0    77.3 10245.0
GR  76.9 10249.0    67.0 10259.0    61.1 10290.0    55.9 10298.0    49.9 10320.0
GR  48.1 10329.0    49.1 10339.0    47.9 10351.0    42.1 10379.0    42.2 10389.0
GR  40.0 10399.0    41.1 10409.0    38.2 10419.0    37.1 10431.0    37.0 10438.0
GR  38.2 10449.0    38.2 10470.0    39.2 10479.0    39.1 10530.0    41.1 10539.0
GR  44.0 10550.0    50.0 10559.0    60.1 10578.0    64.9 10589.0    72.3 10599.0
GR  76.9 10610.0    78.5 10650.0    78.3 10749.0    76.9 10848.0    77.9 13848.0
GR  97.9 13850.0
X1255.60     43.   10249   10680    2112    2112    2112
X3    10
GR  98.2  7046.0    78.2  7048.0    77.2 10048.0    77.3 10072.0    77.2 10098.0
GR  77.2 10114.0    77.2 10148.0    77.2 10233.0    77.2 10249.0    73.1 10273.0
GR  68.2 10298.0    67.1 10308.0    64.9 10320.0    59.0 10343.0    58.1 10349.0
GR  53.0 10398.0    53.0 10418.0    51.1 10429.0    46.8 10469.0    47.0 10478.0
GR  45.9 10489.0    46.1 10499.0    45.0 10510.0    41.1 10518.0    41.1 10548.0
GR  40.0 10559.0    39.7 10589.0    40.8 10598.0    42.8 10608.0    46.8 10618.0
GR  50.1 10625.0    52.0 10628.0    52.8 10638.0    55.7 10647.0    59.1 10658.0
GR  64.0 10669.0    69.9 10675.0    78.5 10680.0    78.5 10747.0    78.5 10798.0
GR  78.5 10848.0    79.5 13848.0    99.5 13850.0
X1255.80     37.   10247   10594    1056    1056    1056
X3    10
GR  97.9  7046.0    77.9  7048.0    76.9 10048.0    77.5 10099.0    74.5 10247.0
GR  71.5 10263.0    67.1 10278.0    62.0 10289.0    58.1 10299.0    50.1 10315.0
GR  48.0 10319.0    42.1 10338.0    41.2 10349.0    41.1 10358.0    40.3 10367.0
GR  33.9 10398.0    31.1 10429.0    31.0 10438.0    32.0 10449.0    33.1 10459.0
GR  35.1 10468.0    35.0 10479.0    36.2 10489.0    39.8 10508.0    43.0 10518.0
GR  49.1 10549.0    53.4 10560.0    59.2 10568.0    62.2 10579.0    69.9 10588.0
GR  78.6 10594.0    78.6 10648.0    78.6 10698.0    78.6 10748.0    78.6 10797.0
GR  79.6 13797.0    99.6 13799.0
X1256.00     44.   10240   10620    1056    1056    1056
X3    10
GR  97.7  7098.0    77.7  7100.0    76.7 10100.0    79.0 10156.0    79.2 10192.0
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Subsegment 080101
Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

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GR  76.3 10195.0    74.4 10206.0    73.6 10239.0    73.4 10240.0    70.9 10249.0
GR  66.2 10260.0    63.0 10269.0    48.2 10291.0    39.1 10310.0    35.8 10340.0
GR  37.0 10350.0    37.1 10360.0    35.0 10380.0    37.0 10390.0    39.1 10410.0
GR  39.1 10460.0    40.9 10469.0    41.1 10481.0    43.0 10488.0    45.1 10510.0
GR  43.1 10519.0    49.9 10542.0    55.9 10556.0    58.1 10560.0    60.9 10571.0
GR  61.7 10581.0    64.6 10589.0    64.7 10600.0    71.1 10617.0    76.6 10620.0
GR  76.6 10650.0    76.6 10676.0    76.6 10719.0    76.6 10750.0    76.6 10785.0
GR  76.6 10811.0    76.6 10820.0    77.6 13820.0    97.6 13822.0
X1256.20     45.   10240   10779    1056    1056    1056
X3    10
GR  98.4  7037.0    78.4  7039.0    77.4 10039.0    77.4 10149.0    77.4 10199.0
GR  77.4 10240.0    72.2 10250.0    58.0 10279.0    50.6 10300.0    46.6 10310.0
GR  43.9 10320.0    43.1 10329.0    42.9 10359.0    45.1 10380.0    45.1 10420.0
GR  43.7 10429.0    47.0 10459.0    46.9 10479.0    48.0 10490.0    47.9 10520.0
GR  49.0 10530.0    49.0 10560.0    50.1 10570.0    49.9 10580.0    51.9 10599.0
GR  55.1 10610.0    58.1 10619.0    63.1 10629.0    63.6 10639.0    66.6 10649.0
GR  67.4 10700.0    68.7 10739.0    77.3 10779.0    77.5 10799.0    77.3 10815.0
GR  77.4 10827.0    77.3 10847.0    77.3 10873.0    77.5 10900.0    77.5 10923.0
GR  77.3 10952.0    77.3 10975.0    77.3 10998.0    78.3 13998.0    98.3 14000.0
X1256.40     39.   10278   10718    1056    1056    1056
X3    10
GR 100.1  7047.0    80.1  7049.0    79.1 10049.0    79.1 10101.0    79.1 10149.0
GR  79.1 10200.0    79.5 10249.0    79.1 10278.0    71.7 10282.0    63.0 10289.0
GR  59.5 10300.0    49.9 10325.0    43.8 10339.0    38.1 10369.0    37.0 10379.0
GR  39.0 10399.0    38.8 10410.0    42.1 10439.0    41.9 10449.0    44.1 10469.0
GR  44.0 10489.0    45.0 10499.0    45.1 10530.0    46.2 10538.0    46.1 10549.0
GR  49.9 10589.0    51.9 10600.0    59.9 10626.0    64.4 10639.0    67.8 10659.0
GR  72.0 10704.0    74.5 10718.0    74.5 10748.0    75.7 10785.0    74.5 10817.0
GR  74.7 10848.0    76.2 10919.0    77.2 13919.0    97.2 13921.0
X1256.60     42. 10269.3 10589.0    1056    1056    1056
X3    10
GR  99.3  7048.0    79.3  7050.0    78.3 10050.0    78.6 10099.2    77.7 10150.6
GR  79.4 10199.7    79.3 10252.9    77.0 10259.7    75.1 10269.3    63.1 10282.6
GR  53.0 10300.1    40.1 10313.0    33.0 10319.7    32.0 10329.8    31.9 10350.7
GR  34.1 10359.4    34.9 10370.3    36.9 10380.5    38.1 10389.9    37.9 10399.8
GR  40.1 10420.0    39.9 10430.5    41.1 10440.3    40.9 10460.2    42.9 10478.4
GR  42.9 10490.9    43.7 10499.7    48.0 10519.2    49.9 10526.4    60.0 10548.7
GR  61.0 10549.6    63.0 10559.4    71.7 10582.3    73.6 10589.0    73.6 10600.6
GR  77.6 10641.9    78.8 10669.1    76.5 10739.1    74.9 10758.6    76.1 10770.0
GR  77.1 13770.0    97.1 13772.0
X1256.80     44.   10260   10658    1056    1056    1056
X3    10
GR 101.3  7046.0    81.3  7048.0    80.3 10048.0    80.3 10098.0    80.3 10199.0
GR  80.3 10260.0    77.2 10265.0    71.8 10297.0    64.3 10304.0    59.1 10309.0
GR  53.7 10319.0    44.8 10329.0    42.1 10337.0    41.0 10349.0    38.9 10359.0
GR  38.0 10368.0    38.0 10379.0    39.0 10389.0    38.8 10439.0    39.9 10448.0
GR  39.9 10468.0    42.1 10488.0    42.0 10509.0    44.0 10518.0    44.0 10528.0
GR  47.2 10537.0    46.9 10548.0    49.1 10558.0    49.0 10578.0    52.9 10587.0
GR  58.2 10598.0    62.1 10609.0    63.3 10620.0    66.1 10628.0    67.2 10639.0
GR  71.7 10652.0    76.3 10658.0    76.7 10698.0    78.4 10748.0    78.6 10798.0
GR  78.6 10848.0    78.4 10858.0    79.4 13858.0    99.4 13860.0
X1257.00     39.   10241   10654    1056    1056    1056
X3    10
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Subsegment 080101
Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

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GR 100.8  7038.0    80.8  7040.0    79.8 10040.0    79.8 10098.0    79.8 10150.0
GR  79.8 10200.0    79.8 10241.0    76.6 10255.0    72.0 10298.0    72.3 10306.0
GR  71.2 10329.0    68.3 10338.0    60.2 10351.0    50.2 10364.0    39.0 10379.0
GR  38.0 10389.0    39.0 10399.0    39.1 10409.0    41.0 10429.0    41.1 10440.0
GR  38.0 10449.0    36.1 10469.0    35.8 10500.0    37.2 10509.0    37.1 10519.0
GR  38.3 10530.0    37.9 10568.0    45.2 10590.0    60.1 10625.0    67.0 10637.0
GR  72.0 10654.0    72.0 10709.0    72.0 10731.0    72.2 10748.0    77.7 10779.0
GR  78.4 10798.0    79.3 10848.0    80.3 13848.0   100.3 13850.0
X1257.40     39.   10261   10637    2112    2112    2112
X3    10
GR  98.6  7037.0    78.6  7039.0    77.6 10039.0    77.6 10137.0    77.6 10161.0
GR  77.6 10199.0    77.6 10261.0    71.7 10264.0    66.0 10280.0    62.8 10291.0
GR  61.8 10300.0    52.7 10310.0    45.9 10320.0    44.0 10340.0    41.0 10350.0
GR  32.8 10360.0    28.9 10380.0    29.1 10441.0    31.0 10450.0    34.1 10460.0
GR  36.1 10470.0    44.2 10549.0    47.3 10561.0    50.1 10567.0    60.0 10585.0
GR  62.1 10590.0    67.8 10610.0    71.6 10618.0    74.0 10620.0    78.1 10637.0
GR  78.1 10688.0    78.1 10722.0    78.1 10753.0    78.1 10772.0    78.1 10798.0
GR  78.1 10821.0    78.1 10840.0    79.1 13840.0    99.1 13842.0
X1257.80     41.   10267   10700    2118    2118    2118
X3    10
GR  99.4  7067.0    79.4  7069.0    78.4 10069.0    78.4 10078.0    78.4 10118.0
GR  78.4 10177.0    78.4 10237.0    78.4 10267.0    64.0 10299.0    62.4 10309.0
GR  57.1 10318.0    54.3 10328.0    52.0 10339.0    48.1 10349.0    46.2 10358.0
GR  46.3 10448.0    43.8 10459.0    42.1 10468.0    43.1 10479.0    43.1 10499.0
GR  42.2 10508.0    42.1 10538.0    44.3 10560.0    44.0 10569.0    45.4 10579.0
GR  45.2 10588.0    49.3 10599.0    51.2 10609.0    56.2 10619.0    60.3 10633.0
GR  62.3 10640.0    64.0 10648.0    67.1 10659.0    72.2 10669.0    75.4 10673.0
GR  77.5 10698.0    79.5 10700.0    79.9 10798.0    79.5 10849.0    80.5 13849.0
GR 100.5 13851.0
X1258.00     46.   10285   10679    1056    1056    1056
X3    10
GR  98.5  7061.0    78.5  7063.0    77.5 10063.0    77.5 10116.0    77.5 10121.0
GR  77.5 10124.0    77.5 10133.0    77.5 10138.0    77.5 10148.0    77.5 10249.0
GR  77.6 10274.0    77.5 10285.0    71.8 10289.0    63.0 10299.0    62.0 10309.0
GR  58.9 10319.0    57.8 10330.0    57.9 10360.0    56.8 10370.0    54.8 10380.0
GR  53.9 10389.0    45.9 10428.0    44.9 10438.0    45.0 10448.0    43.9 10459.0
GR  43.9 10499.0    47.2 10529.0    49.1 10539.0    51.0 10559.0    52.9 10569.0
GR  54.0 10579.0    56.0 10589.0    59.0 10620.0    61.9 10629.0    63.0 10638.0
GR  75.0 10679.0    76.5 10693.0    75.9 10699.0    75.6 10723.0    77.6 10751.0
GR  75.0 10787.0    75.0 10805.0    78.7 10845.0    77.3 10899.0    78.3 13899.0
GR  98.3 13901.0
X1258.80     44.   10260   10654    4224    4224    4224
X3    10
GR 100.0  7057.0    80.0  7059.0    79.0 10059.0    79.0 10099.0    79.0 10160.0
GR  79.0 10199.0    79.0 10227.0    79.0 10246.0    79.0 10260.0    73.7 10289.0
GR  72.1 10298.0    65.8 10308.0    53.0 10340.0    51.2 10348.0    48.9 10369.0
GR  47.0 10379.0    47.1 10389.0    46.0 10399.0    48.2 10418.0    47.0 10428.0
GR  47.3 10438.0    45.3 10449.0    44.9 10489.0    43.2 10509.0    41.1 10518.0
GR  41.0 10528.0    39.3 10550.0    38.9 10569.0    41.9 10599.0    45.1 10610.0
GR  50.0 10620.0    53.2 10631.0    60.0 10639.0    70.2 10648.0    74.2 10654.0
GR  74.5 10684.0    77.4 10706.0    74.2 10734.0    74.4 10747.0    80.4 10772.0
GR  80.7 10799.0    79.8 10854.0    80.8 13854.0   100.8 13856.0
X1259.00     41.   10258   10619    1056    1056    1056
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Subsegment 080101
Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

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X3    10
GR  97.7  7047.0    77.7  7049.0    76.7 10049.0    78.7 10099.0    79.2 10149.0
GR  78.8 10177.0    79.4 10218.0    75.6 10228.0    71.9 10258.0    64.4 10271.0
GR  60.0 10291.0    52.9 10310.0    51.1 10320.0    48.0 10330.0    48.1 10349.0
GR  46.9 10359.0    47.0 10400.0    46.1 10410.0    46.2 10420.0    44.9 10429.0
GR  45.4 10439.0    44.0 10449.0    44.2 10470.0    40.9 10500.0    41.1 10529.0
GR  42.0 10540.0    45.0 10549.0    45.1 10559.0    50.0 10568.0    60.0 10583.0
GR  69.9 10595.0    77.0 10604.0    79.5 10609.0    81.2 10619.0    81.5 10649.0
GR  81.5 10699.0    81.2 10749.0    81.2 10799.0    81.2 10847.0    82.2 13847.0
GR 102.2 13849.0
X1259.40     48.   10234   10662    2112    2112    2112
X3    10
GR  98.8  7013.0    78.8  7015.0    77.8 10015.0    77.8 10034.0    77.8 10053.0
GR  77.8 10099.0    78.8 10139.0    79.3 10150.0    79.0 10200.0    77.8 10234.0
GR  72.1 10238.0    69.4 10242.0    64.5 10253.0    59.0 10260.0    57.0 10270.0
GR  53.3 10278.0    51.1 10290.0    46.2 10298.0    45.2 10310.0    49.2 10330.0
GR  49.1 10349.0    50.4 10358.0    49.0 10369.0    49.0 10379.0    50.0 10387.0
GR  50.0 10449.0    51.1 10458.0    51.2 10469.0    50.1 10479.0    50.3 10499.0
GR  48.9 10508.0    48.9 10530.0    50.1 10540.0    50.0 10549.0    52.0 10570.0
GR  54.1 10581.0    60.2 10589.0    64.7 10605.0    74.4 10626.0    78.4 10662.0
GR  79.5 10667.0    79.6 10686.0    78.4 10703.0    78.4 10743.0    78.4 10784.0
GR  78.4 10829.0    79.4 13829.0    99.4 13831.0
X1260.00     45.   10232   10640    3168    3168    3168
X3    10
GR  98.1  7047.0    78.1  7049.0    77.1 10049.0    77.1 10100.0    77.1 10129.0
GR  77.1 10179.0    77.1 10211.0    77.1 10232.0    73.7 10259.0    71.4 10283.0
GR  70.5 10299.0    66.7 10300.0    64.9 10310.0    55.7 10340.0    53.9 10350.0
GR  50.9 10379.0    51.0 10391.0    48.9 10408.0    49.1 10419.0    46.7 10438.0
GR  46.9 10460.0    45.8 10468.0    45.8 10479.0    47.9 10490.0    45.0 10499.0
GR  44.9 10509.0    43.9 10520.0    38.9 10529.0    39.9 10540.0    39.9 10579.0
GR  41.9 10590.0    45.9 10599.0    49.0 10609.0    53.3 10612.0    60.7 10618.0
GR  65.0 10622.0    68.7 10630.0    79.4 10640.0    82.1 10663.0    82.6 10699.0
GR  81.6 10750.0    81.1 10798.0    80.3 10848.0    81.3 13848.0   101.3 13850.0
X1260.20     45.   10249   10680    1056    1056    1056
X3    10
GR 101.5  7046.0    81.5  7048.0    80.5 10048.0    80.5 10071.0    80.5 10099.0
GR  80.5 10138.0    80.5 10168.0    80.5 10189.0    80.5 10209.0    80.6 10236.0
GR  80.5 10249.0    70.4 10288.0    64.8 10297.0    63.1 10308.0    60.0 10318.0
GR  59.1 10328.0    57.1 10338.0    56.1 10348.0    56.1 10359.0    57.1 10369.0
GR  57.0 10378.0    54.7 10397.0    55.0 10406.0    53.8 10417.0    51.8 10429.0
GR  51.0 10439.0    49.2 10448.0    47.0 10469.0    47.0 10499.0    50.0 10509.0
GR  54.9 10518.0    55.1 10548.0    54.0 10558.0    54.0 10619.0    54.9 10629.0
GR  57.0 10639.0    62.2 10649.0    64.9 10659.0    69.9 10668.0    80.3 10680.0
GR  80.3 10697.0    80.7 10747.0    80.3 10847.0    81.3 13847.0   101.3 13849.0
X1260.40     47.   10308   10715    1056    1056    1056
X3    10
GR 100.2  7096.0    80.2  7098.0    79.2 10098.0    79.2 10148.0    79.2 10198.0
GR  80.3 10246.0    79.2 10273.0    79.2 10288.0    80.0 10296.0    79.2 10308.0
GR  75.5 10310.0    70.5 10320.0    64.8 10339.0    57.5 10350.0    56.0 10370.0
GR  56.1 10379.0    50.6 10389.0    47.9 10400.0    47.0 10409.0    47.0 10419.0
GR  45.7 10429.0    45.9 10440.0    44.2 10449.0    44.2 10460.0    41.9 10469.0
GR  41.2 10479.0    36.9 10500.0    35.9 10511.0    36.0 10522.0    38.1 10540.0
GR  38.1 10550.0    39.0 10559.0    49.3 10610.0    56.0 10630.0    65.2 10665.0
```

Subsegment 080101
Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

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GR  70.2 10677.0    73.3 10684.0    75.9 10699.0    77.7 10708.0    80.9 10715.0
GR  81.1 10749.0    81.2 10798.0    80.9 10850.0    80.9 10899.0    80.9 10929.0
GR  81.9 13929.0   101.9 13931.0
X1260.60     42.   10274   10683    1056    1056    1056
X3    10
GR 100.9  7047.0    80.9  7049.0    79.9 10049.0    79.9 10087.0    79.9 10094.0
GR  79.9 10102.0    80.4 10148.0    79.9 10179.0    80.9 10187.0    79.9 10274.0
GR  68.3 10288.0    65.0 10302.0    57.9 10309.0    55.1 10319.0    51.2 10338.0
GR  50.1 10349.0    50.1 10388.0    47.1 10419.0    48.3 10428.0    47.9 10449.0
GR  49.1 10458.0    49.3 10488.0    50.2 10498.0    50.1 10509.0    51.1 10519.0
GR  51.1 10538.0    50.0 10548.0    49.8 10559.0    52.1 10578.0    51.8 10588.0
GR  58.1 10651.0    59.8 10660.0    63.0 10669.0    65.0 10679.0    78.3 10683.0
GR  78.3 10710.0    78.3 10730.0    78.3 10759.0    78.3 10770.0    78.3 10808.0
GR  79.3 13808.0    99.3 13810.0
X1260.80     43.   10240   10643    1056    1056    1056
X3    10
GR 101.4  7047.0    81.4  7049.0    80.4 10049.0    80.4 10094.0    80.4 10149.0
GR  80.4 10198.0    80.4 10240.0    69.7 10248.0    65.3 10258.0    56.8 10269.0
GR  53.9 10280.0    49.9 10289.0    45.4 10299.0    42.1 10310.0    39.9 10320.0
GR  38.9 10329.0    38.9 10339.0    37.7 10350.0    37.9 10360.0    37.0 10370.0
GR  38.9 10390.0    40.8 10399.0    42.1 10409.0    47.8 10439.0    48.9 10449.0
GR  51.1 10459.0    55.1 10498.0    59.8 10549.0    60.9 10558.0    62.8 10569.0
GR  65.2 10587.0    66.5 10591.0    76.7 10629.0    79.4 10643.0    79.4 10651.0
GR  79.4 10689.0    79.4 10710.0    79.4 10738.0    79.4 10780.0    79.4 10823.0
GR  79.4 10869.0    80.4 13869.0   100.4 13871.0
X1261.00     48.   10237   10616    1056    1056    1056
X3    10
GR 102.2  7035.0    82.2  7037.0    81.2 10037.0    81.2 10049.0    81.2 10097.0
GR  81.2 10148.0    81.9 10199.0    81.2 10237.0    70.8 10247.0    67.1 10250.0
GR  64.8 10258.0    56.7 10269.0    52.1 10278.0    48.0 10289.0    43.9 10308.0
GR  43.1 10319.0    43.2 10329.0    42.2 10339.0    42.1 10349.0    40.8 10358.0
GR  41.0 10369.0    39.9 10378.0    40.1 10409.0    39.0 10419.0    39.0 10430.0
GR  40.1 10439.0    40.0 10450.0    42.2 10467.0    41.8 10478.0    46.0 10518.0
GR  49.0 10528.0    50.8 10539.0    54.9 10548.0    57.9 10559.0    63.0 10568.0
GR  65.3 10586.0    67.3 10588.0    72.7 10605.0    75.5 10616.0    75.5 10637.0
GR  75.5 10653.0    79.1 10678.0    80.4 10738.0    80.4 10773.0    79.1 10787.0
GR  80.8 10815.0    81.8 13815.0   101.8 13817.0
X1261.20     42.   10266   10720    1056    1056    1056
X3    10
GR 100.0  7046.0    80.0  7048.0    79.0 10048.0    76.5 10100.0    76.4 10108.0
GR  76.7 10151.0    74.4 10172.0    74.4 10199.0    74.4 10259.0    74.4 10266.0
GR  72.3 10279.0    69.8 10300.0    67.3 10311.0    62.1 10320.0    50.8 10339.0
GR  45.7 10350.0    44.0 10359.0    42.7 10370.0    42.8 10380.0    42.0 10390.0
GR  41.8 10439.0    43.0 10448.0    41.8 10460.0    42.9 10469.0    42.9 10520.0
GR  41.8 10529.0    43.0 10539.0    42.8 10589.0    46.0 10598.0    50.1 10620.0
GR  59.1 10640.0    59.7 10648.0    65.0 10674.0    70.0 10689.0    79.9 10697.0
GR  82.8 10720.0    82.8 10774.0    82.8 10800.0    82.8 10850.0    82.8 10898.0
GR  83.8 13898.0   103.8 13900.0
X1262.40     38.   10281   10669    6332    6332    6332
X3    10
GR 100.8  7048.0    80.8  7050.0    79.8 10050.0    79.8 10098.0    79.8 10148.0
GR  79.8 10198.0    79.8 10248.0    79.8 10281.0    78.6 10299.0    74.3 10311.0
GR  65.5 10328.0    57.0 10348.0    52.9 10368.0    49.8 10380.0    48.9 10388.0
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Subsegment 080101
Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

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GR  45.0 10408.0    41.9 10439.0    41.9 10489.0    43.2 10497.0    43.1 10510.0
GR  43.9 10517.0    44.2 10528.0    49.3 10578.0    49.2 10588.0    50.2 10600.0
GR  59.1 10618.0    65.5 10645.0    73.9 10655.0    77.1 10669.0    79.2 10737.0
GR  82.3 10769.0    81.9 10820.0    81.2 10849.0    80.6 10898.0    79.5 10948.0
GR  78.7 10973.0    79.7 13973.0    99.7 13975.0
X1262.80     37.   10268   10610    2118    2118    2118
X3    10
GR 103.1  7046.0    83.1  7048.0    82.1 10048.0    82.1 10099.0    82.1 10148.0
GR  82.3 10200.0    82.1 10268.0    65.5 10279.0    47.5 10319.0    43.0 10328.0
GR  38.9 10349.0    38.8 10370.0    42.1 10400.0    42.2 10409.0    43.1 10419.0
GR  45.2 10427.0    45.6 10438.0    47.9 10448.0    49.2 10459.0    49.2 10490.0
GR  49.7 10499.0    52.4 10510.0    53.8 10528.0    56.2 10539.0    61.3 10550.0
GR  64.1 10560.0    65.4 10578.0    71.5 10595.0    73.8 10610.0    73.8 10640.0
GR  75.6 10661.0    73.8 10687.0    76.5 10743.0    79.6 10771.0    78.5 10780.0
GR  79.5 13780.0    99.5 13782.0
X1263.00     36.   10289   10590    1056    1056    1056
X3    10
GR 101.8  7047.0    81.8  7049.0    80.8 10049.0    80.8 10099.0    80.8 10148.0
GR  81.0 10200.0    81.2 10250.0    80.8 10289.0    58.0 10321.0    51.8 10330.0
GR  46.2 10349.0    47.1 10360.0    47.3 10388.0    44.9 10409.0    47.2 10429.0
GR  46.9 10439.0    48.2 10450.0    48.2 10469.0    49.4 10480.0    49.1 10508.0
GR  51.2 10519.0    55.2 10528.0    58.2 10541.0    62.1 10550.0    65.8 10569.0
GR  76.5 10584.0    78.8 10590.0    78.8 10614.0    79.6 10649.0    78.8 10693.0
GR  78.8 10724.0    78.8 10748.0    78.8 10784.0    78.8 10823.0    79.8 13823.0
GR  99.8 13825.0
X1263.40     36. 10278.8 10639.0    2118    2118    2118
X3    10
GR 104.4  7048.1    84.4  7050.1    83.4 10050.1    83.4 10149.2    83.4 10278.8
GR  74.7 10289.2    70.5 10306.6    65.7 10314.1    63.7 10319.6    59.7 10359.9
GR  59.0 10370.8    55.1 10389.8    50.9 10429.6    51.1 10438.6    50.0 10449.5
GR  49.9 10460.0    48.8 10468.5    48.9 10478.9    50.9 10499.9    50.9 10539.2
GR  52.1 10549.2    51.1 10558.2    54.1 10569.6    60.0 10580.1    61.8 10589.1
GR  66.0 10600.1    70.1 10603.1    71.8 10603.6    73.3 10610.6    76.0 10639.0
GR  76.0 10679.8    76.7 10697.8    76.0 10709.7    79.5 10749.6    80.5 13749.6
GR 100.5 13751.6
NC  .040    .040    .030      .1      .3
X1264.60     34.   10419   10848    6336    6336    6336
X3    10
GR 100.9  7203.0    80.9  7205.0    79.9 10205.0    79.9 10419.0    65.6 10434.0
GR  56.9 10452.0    53.9 10460.0    50.1 10480.0    45.0 10490.0    44.8 10501.0
GR  45.9 10508.0    45.0 10519.0    47.0 10542.0    49.1 10551.0    50.1 10560.0
GR  50.0 10610.0    51.1 10620.0    50.9 10629.0    55.2 10671.0    56.9 10680.0
GR  57.0 10700.0    57.8 10709.0    61.1 10721.0    63.1 10734.0    72.4 10760.0
GR  74.0 10769.0    76.4 10800.0    78.5 10848.0    78.5 10895.0    78.5 10949.0
GR  78.5 10981.0    78.5 11000.0    79.5 14000.0    99.5 14002.0
X1264.80     42.   10352   10734    1056    1056    1056
X3    10
GR 102.3  7102.0    82.3  7104.0    81.3 10104.0    81.3 10267.0    81.3 10273.0
GR  81.7 10311.0    81.9 10325.0    81.3 10352.0    73.1 10357.0    63.1 10380.0
GR  62.2 10391.0    58.2 10401.0    56.1 10412.0    50.2 10420.0    44.9 10441.0
GR  44.3 10450.0    45.2 10460.0    45.2 10472.0    46.1 10482.0    46.2 10491.0
GR  49.1 10521.0    49.2 10531.0    52.2 10559.0    51.1 10571.0    53.1 10581.0
GR  56.0 10610.0    56.0 10621.0    59.9 10661.0    62.0 10672.0    63.1 10681.0
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Subsegment 080101
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GR  80.1 10721.0    82.9 10734.0    82.9 10771.0    82.9 10787.0    82.9 10801.0
GR  82.9 10822.0    82.9 10858.0    82.9 10873.0    82.9 10899.0    82.9 10940.0
GR  83.9 13940.0   103.9 13942.0
X1265.00     32.   10263   10598    1056    1056    1056
X3    10
GR 102.4  7045.0    82.4  7047.0    81.4 10047.0    81.4 10099.0    81.4 10146.0
GR  81.4 10197.0    81.4 10263.0    74.0 10268.0    63.3 10288.0    55.3 10309.0
GR  53.1 10319.0    35.3 10369.0    35.3 10391.0    34.3 10401.0    34.2 10420.0
GR  38.1 10439.0    39.5 10450.0    43.7 10459.0    50.4 10479.0    52.4 10490.0
GR  53.0 10499.0    55.2 10508.0    57.2 10529.0    61.2 10538.0    63.0 10551.0
GR  79.5 10589.0    81.0 10598.0    81.5 10651.0    81.6 10712.0    81.3 10798.0
GR  82.3 13798.0   102.3 13800.0
X1265.40     34.   10311   10678    2112    2112    2112
X3    10
GR 100.4  7098.0    80.4  7100.0    79.4 10100.0    79.4 10154.0    79.4 10214.0
GR  79.4 10255.0    79.4 10285.0    79.4 10298.0    79.4 10311.0    74.4 10348.0
GR  63.0 10370.0    62.0 10381.0    55.1 10400.0    53.0 10409.0    52.0 10420.0
GR  52.8 10430.0    51.2 10450.0    51.0 10472.0    50.1 10478.0    49.8 10540.0
GR  51.1 10550.0    51.0 10561.0    56.2 10604.0    57.9 10619.0    75.5 10661.0
GR  77.9 10669.0    83.6 10678.0    83.6 10698.0    83.6 10752.0    83.6 10799.0
GR  83.6 10855.0    83.6 10900.0    84.6 13900.0   104.6 13902.0
X1265.60     39.   10285   10619    1056    1056    1056
X3    10
GR 100.3  7080.0    80.3  7082.0    79.3 10082.0    79.3 10110.0    79.5 10150.0
GR  79.3 10212.0    79.3 10249.0    79.3 10285.0    73.9 10302.0    63.4 10333.0
GR  62.1 10341.0    60.0 10351.0    56.9 10380.0    54.6 10391.0    52.0 10422.0
GR  49.9 10431.0    48.1 10450.0    48.0 10462.0    48.9 10472.0    47.8 10480.0
GR  47.9 10491.0    49.0 10502.0    48.7 10520.0    49.8 10530.0    49.9 10541.0
GR  50.9 10550.0    51.0 10560.0    53.0 10571.0    54.1 10580.0    63.2 10591.0
GR  75.1 10615.0    83.0 10619.0    83.0 10621.0    83.0 10635.0    83.0 10650.0
GR  83.0 10668.0    83.0 10823.0    84.0 13823.0   104.0 13825.0
X1265.80     37.   10275   10694    1056    1056    1056
X3    10
GR 101.3  7086.0    81.3  7088.0    80.3 10088.0    81.1 10110.0    80.3 10152.0
GR  80.3 10170.0    80.6 10198.0    81.6 10250.0    80.3 10275.0    75.0 10295.0
GR  63.1 10309.0    52.8 10339.0    49.6 10368.0    51.8 10378.0    52.0 10429.0
GR  50.9 10438.0    51.0 10448.0    49.6 10458.0    49.9 10471.0    48.7 10479.0
GR  48.8 10521.0    50.8 10541.0    53.2 10551.0    52.9 10561.0    56.1 10580.0
GR  61.9 10589.0    63.7 10601.0    74.8 10630.0    79.4 10660.0    86.3 10682.0
GR  89.4 10694.0    89.4 10763.0    89.4 10774.0    89.4 10897.0    89.4 10950.0
GR  90.4 13950.0   110.4 13952.0
X1266.00     38.   10296   10634    1056    1056    1056
X3    10
GR 101.0  7068.0    81.0  7070.0    80.0 10070.0    82.5 10095.0    80.1 10120.0
GR  80.6 10145.0    82.8 10162.0    78.6 10195.0    77.9 10224.0    74.5 10246.0
GR  74.5 10261.0    75.6 10281.0    74.5 10296.0    69.0 10308.0    62.9 10311.0
GR  53.9 10336.0    51.9 10346.0    52.0 10355.0    51.1 10365.0    51.0 10396.0
GR  49.9 10405.0    50.2 10425.0    48.9 10435.0    48.9 10448.0    47.9 10456.0
GR  47.9 10538.0    49.1 10547.0    54.6 10560.0    63.4 10590.0    67.5 10608.0
GR  77.9 10630.0    86.8 10634.0    89.1 10657.0    87.3 10663.0    87.3 10899.0
GR  87.1 10902.0    88.1 13902.0   108.1 13904.0
X1266.20     32.   10257   10578    1056    1056    1056
X3    10
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Revised: 4-12-02, 5-7-02, 7-31-02

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GR 103.3  7048.0    83.3  7050.0    82.3 10050.0    83.7 10097.0    79.1 10133.0
GR  80.5 10148.0    78.9 10238.0    75.4 10257.0    63.6 10270.0    50.0 10299.0
GR  48.0 10307.0    45.1 10337.0    45.1 10349.0    44.0 10358.0    44.1 10387.0
GR  43.1 10398.0    43.0 10430.0    44.0 10438.0    44.1 10448.0    46.1 10470.0
GR  50.1 10487.0    51.3 10499.0    57.7 10518.0    63.4 10542.0    81.3 10569.0
GR  83.1 10578.0    84.1 10599.0    84.8 10649.0    84.4 10700.0    84.7 10747.0
GR  85.7 13747.0   105.7 13749.0
X1266.40     35.   10316   10749    1056    1056    1056
X3    10
GR 105.0  7097.0    85.0  7099.0    84.0 10099.0    84.0 10160.0    84.0 10204.0
GR  84.0 10259.0    84.4 10306.0    84.0 10316.0    79.3 10327.0    73.0 10329.0
GR  66.1 10361.0    63.0 10364.0    54.0 10389.0    42.9 10410.0    42.0 10418.0
GR  41.9 10429.0    41.1 10438.0    40.8 10469.0    41.9 10478.0    42.0 10499.0
GR  42.7 10510.0    43.0 10529.0    42.1 10538.0    42.0 10549.0    42.7 10559.0
GR  54.1 10593.0    63.4 10612.0    72.2 10622.0    79.2 10699.0    81.0 10716.0
GR  83.4 10749.0    84.5 10796.0    83.8 10843.0    84.8 13843.0   104.8 13845.0
X1266.60     38.   10276   10654    1056    1056    1056
X3    10
GR 103.9  7120.0    83.9  7122.0    82.9 10122.0    82.2 10246.0    82.2 10276.0
GR  77.4 10298.0    73.1 10331.0    68.0 10344.0    63.3 10348.0    59.0 10360.0
GR  52.1 10369.0    47.8 10389.0    47.1 10398.0    47.1 10409.0    48.2 10418.0
GR  48.1 10440.0    49.1 10450.0    49.1 10476.0    46.0 10507.0    46.1 10539.0
GR  47.4 10548.0    42.9 10559.0    44.0 10568.0    43.1 10579.0    44.1 10588.0
GR  46.3 10600.0    52.3 10619.0    63.5 10643.0    80.6 10654.0    80.6 10699.0
GR  80.6 10724.0    80.6 10756.0    80.6 10781.0    80.6 10795.0    80.6 10851.0
GR  80.6 10898.0    81.6 13898.0   101.6 13900.0
X1266.80     34.   10284   10624    1056    1056    1056
X3    10
GR 102.3  7096.0    82.3  7098.0    81.3 10098.0    81.3 10110.0    81.3 10129.0
GR  81.3 10149.0    81.3 10165.0    81.3 10186.0    81.3 10200.0    81.3 10228.0
GR  81.3 10243.0    81.3 10260.0    81.3 10284.0    73.4 10310.0    63.3 10326.0
GR  55.2 10350.0    54.2 10360.0    49.9 10381.0    48.9 10389.0    44.3 10411.0
GR  45.2 10420.0    45.2 10430.0    46.0 10440.0    46.2 10490.0    49.2 10520.0
GR  49.1 10530.0    51.1 10539.0    60.1 10549.0    60.1 10571.0    64.4 10589.0
GR  82.6 10624.0    83.2 10848.0    84.2 13848.0   104.2 13850.0
X1267.40     42.   10337   10829    3168    3168    3168
X3    10
GR 105.0  7095.0    85.0  7097.0    84.0 10097.0    84.0 10148.0    84.0 10248.0
GR  84.0 10284.0    84.5 10294.0    84.6 10309.0    84.0 10323.0    84.0 10337.0
GR  83.9 10338.0    80.8 10348.0    75.9 10399.0    71.4 10481.0    66.7 10496.0
GR  64.1 10501.0    62.1 10508.0    58.0 10519.0    57.1 10528.0    54.5 10545.0
GR  54.2 10560.0    52.5 10578.0    52.4 10589.0    51.1 10600.0    51.4 10617.0
GR  50.3 10626.0    50.1 10647.0    48.9 10657.0    48.9 10699.0    52.4 10727.0
GR  52.1 10738.0    53.2 10748.0    53.1 10760.0    71.6 10805.0    78.0 10826.0
GR  80.9 10829.0    80.9 10898.0    80.9 10917.0    80.9 10948.0    80.9 10998.0
GR  81.9 13998.0   101.9 14000.0
X1267.60     42.   10324   10671    1056    1056    1056
X3    10
GR 107.2  7097.0    87.2  7099.0    86.2 10099.0    85.9 10104.0    85.6 10121.0
GR  83.1 10130.0    82.1 10147.0    82.1 10153.0    82.1 10198.0    82.1 10248.0
GR  82.3 10299.0    82.1 10324.0    63.3 10373.0    59.0 10387.0    56.5 10401.0
GR  56.0 10408.0    54.2 10418.0    53.1 10428.0    50.2 10439.0    47.0 10471.0
GR  47.2 10480.0    45.9 10490.0    46.0 10520.0    45.2 10529.0    47.0 10539.0
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Subsegment 080101
Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

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GR  48.3 10550.0    48.2 10560.0    50.1 10580.0    58.3 10622.0    62.2 10632.0
GR  63.4 10640.0    68.3 10642.0    76.6 10656.0    79.2 10667.0    83.1 10671.0
GR  83.1 10700.0    83.1 10750.0    83.1 10800.0    83.1 10849.0    83.1 10900.0
GR  84.1 13900.0   104.1 13902.0
X1268.60     36.   10304   10700    5280    5280    5280
X3    10
GR 103.2  7103.0    83.2  7105.0    82.2 10105.0    82.2 10154.0    82.2 10174.0
GR  82.2 10200.0    82.2 10249.0    82.2 10297.0    82.2 10304.0    79.4 10318.0
GR  73.1 10332.0    65.9 10355.0    63.6 10369.0    61.0 10378.0    59.8 10389.0
GR  58.0 10399.0    55.0 10420.0    52.0 10428.0    51.0 10437.0    51.0 10459.0
GR  49.9 10469.0    50.9 10479.0    50.9 10569.0    55.0 10609.0    57.8 10617.0
GR  59.9 10629.0    64.1 10638.0    69.7 10658.0    73.6 10678.0    78.6 10694.0
GR  85.8 10699.0    85.7 10700.0    85.7 10779.0    85.7 10897.0    86.7 13897.0
GR 106.7 13899.0
X1268.80     36.   10306   10682    1056    1056    1056
X3    10
GR 102.8  7102.0    82.8  7104.0    81.8 10104.0    81.8 10141.0    83.0 10200.0
GR  81.8 10306.0    75.9 10327.0    70.1 10340.0    63.4 10344.0    59.1 10360.0
GR  54.0 10369.0    51.1 10380.0    51.1 10389.0    46.0 10439.0    42.1 10460.0
GR  41.1 10471.0    39.2 10479.0    37.9 10491.0    38.2 10499.0    37.1 10510.0
GR  37.9 10518.0    38.2 10540.0    42.1 10560.0    43.3 10569.0    46.8 10589.0
GR  47.9 10599.0    50.0 10609.0    51.2 10619.0    82.2 10682.0    84.5 10715.0
GR  83.2 10728.0    83.8 10744.0    83.0 10749.0    83.7 10799.0    84.7 13799.0
GR 104.7 13801.0
X1269.20     40.   10308   10733    2112    2112    2112
X3    10
GR 106.2  7098.0    86.2  7100.0    85.2 10100.0    85.2 10161.0    85.2 10255.0
GR  85.2 10308.0    79.2 10313.0    71.4 10330.0    62.9 10344.0    56.6 10370.0
GR  53.0 10381.0    44.8 10421.0    40.1 10441.0    40.0 10453.0    44.8 10482.0
GR  47.9 10490.0    48.0 10511.0    48.9 10520.0    49.0 10542.0    50.9 10557.0
GR  50.9 10571.0    51.9 10580.0    51.8 10590.0    53.9 10608.0    53.9 10622.0
GR  58.7 10671.0    61.8 10680.0    63.2 10693.0    78.0 10719.0    81.2 10733.0
GR  82.5 10749.0    81.2 10773.0    81.7 10787.0    81.2 10790.0    81.2 10796.0
GR  81.2 10805.0    81.2 10850.0    81.2 10886.0    82.2 13886.0   102.2 13888.0
X1269.60     42.   10323   10737    2116    2116    2116
X3    10
GR 106.4  7100.0    86.4  7102.0    85.4 10102.0    85.7 10129.0    84.1 10162.0
GR  84.1 10200.0    84.1 10248.0    84.1 10323.0    79.9 10329.0    77.1 10348.0
GR  47.9 10410.0    44.4 10429.0    41.1 10439.0    40.0 10449.0    40.0 10459.0
GR  38.2 10468.0    37.0 10479.0    40.1 10509.0    39.9 10531.0    41.1 10538.0
GR  40.8 10550.0    42.1 10558.0    42.1 10568.0    43.0 10577.0    41.7 10590.0
GR  43.0 10599.0    42.9 10609.0    44.0 10618.0    63.7 10675.0    75.9 10689.0
GR  78.8 10702.0    81.8 10713.0    85.2 10737.0    85.5 10748.0    85.2 10772.0
GR  85.2 10781.0    85.4 10798.0    85.2 10849.0    85.2 10873.0    85.2 10919.0
GR  86.2 13919.0   106.2 13921.0
X1269.80     36.   10272   10704    1056    1056    1056
X3    10
GR 102.0  7055.0    82.0  7057.0    81.0 10057.0    83.5 10107.0    79.9 10148.0
GR  79.9 10199.0    79.9 10226.0    79.9 10248.0    79.9 10272.0    73.5 10334.0
GR  65.2 10349.0    48.9 10378.0    45.9 10389.0    41.9 10398.0    37.9 10438.0
GR  37.8 10460.0    38.7 10469.0    38.8 10518.0    42.9 10538.0    43.7 10548.0
GR  43.7 10559.0    44.8 10568.0    44.7 10580.0    46.8 10588.0    55.4 10607.0
GR  62.9 10627.0    63.4 10639.0    68.2 10653.0    74.1 10674.0    82.2 10684.0
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GR  83.3 10690.0    86.8 10697.0    88.3 10704.0    88.3 10902.0    89.3 13902.0
GR 109.3 13904.0
X1270.20     35.   10315   10738    2112    2112    2112
X3    10
GR 104.1  7145.0    84.1  7147.0    83.1 10147.0    83.6 10199.0    83.1 10230.0
GR  83.6 10248.0    83.1 10279.0    83.4 10288.0    83.6 10299.0    83.1 10315.0
GR  63.5 10361.0    63.0 10368.0    56.9 10378.0    54.0 10389.0    52.1 10410.0
GR  39.0 10470.0    36.9 10491.0    41.3 10510.0    43.2 10529.0    46.6 10542.0
GR  47.9 10550.0    48.0 10561.0    46.8 10570.0    47.9 10580.0    53.6 10608.0
GR  55.0 10619.0    55.0 10630.0    62.0 10650.0    63.3 10664.0    70.5 10678.0
GR  73.8 10701.0    83.5 10738.0    89.4 10813.0    90.4 13813.0   110.4 13815.0
X1270.60     46.   10328   10666    2112    2112    2112
X3    10
GR 105.0  7099.0    85.0  7101.0    84.0 10101.0    86.5 10244.0    82.1 10250.0
GR  77.5 10275.0    75.3 10300.0    74.4 10328.0    69.4 10348.0    63.6 10359.0
GR  62.1 10370.0    59.1 10381.0    54.4 10392.0    50.1 10400.0    49.1 10410.0
GR  49.2 10421.0    47.0 10440.0    47.1 10460.0    46.1 10469.0    46.2 10481.0
GR  43.0 10511.0    43.1 10520.0    42.1 10530.0    39.9 10541.0    39.1 10550.0
GR  40.3 10561.0    45.2 10570.0    46.1 10580.0    49.0 10590.0    50.1 10600.0
GR  56.3 10611.0    63.5 10635.0    82.3 10666.0    82.3 10699.0    82.3 10736.0
GR  82.3 10751.0    82.3 10775.0    84.8 10788.0    86.2 10795.0    86.3 10805.0
GR  85.7 10816.0    82.3 10830.0    82.3 10850.0    82.3 10900.0    83.3 13900.0
GR 103.3 13902.0
X1270.80     41.   10340   10752    1056    1056    1056
X3    10
GR 106.2  7101.0    86.2  7103.0    85.2 10103.0    86.7 10301.0    86.1 10322.0
GR  85.2 10340.0    81.6 10344.0    79.7 10351.0    73.4 10361.0    63.2 10377.0
GR  56.1 10400.0    54.3 10410.0    48.4 10423.0    46.8 10432.0    43.0 10441.0
GR  41.7 10451.0    42.9 10460.0    41.7 10471.0    41.8 10483.0    40.7 10491.0
GR  41.0 10502.0    42.1 10513.0    45.2 10522.0    44.0 10531.0    41.9 10541.0
GR  43.0 10550.0    43.2 10561.0    42.0 10571.0    42.1 10592.0    46.0 10612.0
GR  70.4 10646.0    73.3 10652.0    76.8 10660.0    80.2 10700.0    83.3 10752.0
GR  83.3 10765.0    83.3 10784.0    84.4 10831.0    83.3 10901.0    84.3 13901.0
GR 104.3 13903.0
X1271.00     37. 10284.2 10639.1    1056    1056    1056
X3    10
GR 107.9  7071.0    87.9  7073.0    86.9 10073.0    86.9 10097.5    86.9 10150.9
GR  87.4 10283.7    86.9 10284.2    82.8 10288.5    82.3 10293.4    62.3 10315.7
GR  54.5 10330.2    50.8 10339.4    48.9 10357.8    49.0 10398.6    47.9 10410.4
GR  47.7 10459.7    49.1 10467.2    49.0 10478.7    50.1 10488.7    49.9 10519.5
GR  52.2 10538.0    51.9 10548.5    63.1 10578.9    63.4 10586.9    65.1 10587.0
GR  68.5 10592.7    72.2 10604.3    75.3 10619.9    78.0 10623.0    81.5 10639.1
GR  82.4 10682.5    81.5 10748.7    81.5 10774.3    81.5 10797.7    81.5 10847.1
GR  82.5 13847.1   102.5 13849.1
X1271.40     35.   10268   10649    2112    2112    2112
X3    10
GR 102.5  7049.0    82.5  7051.0    81.5 10051.0    82.7 10197.0    81.5 10268.0
GR  76.2 10283.0    63.0 10305.0    53.0 10328.0    47.0 10388.0    46.7 10400.0
GR  48.1 10410.0    48.0 10420.0    46.0 10429.0    49.0 10440.0    50.0 10449.0
GR  49.9 10458.0    51.0 10468.0    51.0 10480.0    52.1 10488.0    51.8 10510.0
GR  52.9 10518.0    52.8 10539.0    55.1 10558.0    63.4 10593.0    65.9 10597.0
GR  77.5 10626.0    82.7 10649.0    82.7 10675.0    82.7 10685.0    82.7 10744.0
GR  82.7 10799.0    82.7 10816.0    82.7 10849.0    83.7 13849.0   103.7 13851.0
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X1271.80     50.   10172   10843    2112    2112    2112
X3    10
GR 105.1  7071.0    85.1  7073.0    84.1 10073.0    82.4 10099.0    82.5 10122.0
GR  80.4 10162.0    79.5 10172.0    74.6 10199.0    65.1 10287.0    60.7 10301.0
GR  59.0 10308.0    55.0 10330.0    54.1 10339.0    51.6 10349.0    52.0 10360.0
GR  50.0 10368.0    49.6 10379.0    48.6 10389.0    48.1 10420.0    49.9 10429.0
GR  49.7 10449.0    47.7 10469.0    47.8 10501.0    46.6 10508.0    47.0 10550.0
GR  45.7 10558.0    45.9 10610.0    44.8 10619.0    44.7 10639.0    45.9 10648.0
GR  47.8 10660.0    48.5 10668.0    51.8 10679.0    57.6 10690.0    58.6 10698.0
GR  58.9 10709.0    57.7 10720.0    58.9 10731.0    62.1 10740.0    64.9 10753.0
GR  76.8 10787.0    77.2 10824.0    83.3 10843.0    84.5 10884.0    85.1 10954.0
GR  86.7 10966.0    83.3 11002.0    83.3 11043.0    84.3 14043.0   104.3 14045.0
NC  .040    .040    .030
X1272.00     34.   10317   10680    1056    1056    1056
X3    10
GR 104.7  7118.0    84.7  7120.0    83.7 10120.0    84.4 10167.0    82.8 10217.0
GR  83.2 10268.0    79.1 10290.0    77.9 10317.0    71.3 10325.0    62.0 10350.0
GR  60.3 10360.0    55.3 10370.0    50.1 10390.0    42.1 10428.0    42.0 10442.0
GR  43.0 10449.0    42.9 10512.0    42.0 10524.0    41.9 10532.0    44.1 10552.0
GR  53.4 10590.0    71.0 10630.0    82.8 10664.0    85.6 10680.0    85.7 10699.0
GR  87.0 10704.0    86.6 10719.0    87.7 10730.0    85.6 10751.0    85.6 10851.0
GR  85.6 10879.0    85.6 10880.0    86.6 13880.0   106.6 13882.0
X1272.20     39.   10291   10730    1056    1056    1056
X3    10
GR 104.2  7091.0    84.2  7093.0    83.2 10093.0    83.5 10247.0    83.2 10291.0
GR  72.1 10302.0    65.1 10322.0    58.0 10339.0    53.0 10348.0    50.1 10359.0
GR  44.3 10369.0    43.3 10380.0    40.1 10389.0    39.1 10399.0    39.0 10410.0
GR  42.2 10420.0    46.1 10441.0    48.2 10459.0    51.2 10478.0    51.1 10490.0
GR  51.9 10499.0    54.1 10509.0    54.1 10519.0    55.2 10529.0    55.0 10559.0
GR  56.0 10569.0    58.1 10578.0    58.1 10590.0    60.1 10608.0    62.0 10619.0
GR  62.9 10628.0    83.1 10730.0    83.6 10749.0    83.1 10797.0    83.1 10850.0
GR  83.1 10898.0    83.1 10930.0    84.1 13930.0   104.1 13932.0
X1272.80     39.   10279   10626    3168    3168    3168
X3    10
GR 104.5  7076.0    84.5  7078.0    83.5 10078.0    83.5 10099.0    83.5 10185.0
GR  83.5 10249.0    83.5 10279.0    65.1 10314.0    62.8 10340.0    54.9 10347.0
GR  46.5 10379.0    45.7 10388.0    42.8 10398.0    45.0 10409.0    44.6 10419.0
GR  46.8 10438.0    45.9 10447.0    46.0 10460.0    47.9 10469.0    43.9 10487.0
GR  42.6 10500.0    43.8 10508.0    41.8 10520.0    43.9 10529.0    48.0 10538.0
GR  46.9 10548.0    52.1 10560.0    59.6 10579.0    83.9 10626.0    87.0 10675.0
GR  84.6 10693.0    84.6 10723.0    87.3 10743.0    87.1 10798.0    84.6 10809.0
GR  84.2 10825.0    86.9 10839.0    87.9 13839.0   107.9 13841.0
X1273.40     26.   10311   10683    3168    3168    3168
X3    10
GR 103.0  7096.0    83.0  7098.0    82.0 10098.0    82.0 10147.0    82.0 10210.0
GR  82.4 10262.0    82.0 10311.0    71.0 10353.0    54.6 10380.0    48.9 10399.0
GR  49.1 10410.0    47.0 10428.0    47.2 10439.0    45.1 10458.0    45.0 10581.0
GR  46.8 10599.0    54.4 10620.0    60.3 10629.0    65.3 10645.0    88.7 10683.0
GR  88.7 10748.0    88.7 10804.0    88.7 10850.0    88.7 10883.0    89.7 13883.0
GR 109.7 13885.0
X1273.60     37.   10274   10744    1056    1056    1056
X3    10
GR 108.7  7070.0    88.7  7072.0    87.7 10072.0    87.7 10099.0    87.7 10147.0
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GR  87.7 10198.0    87.7 10250.0    87.7 10253.0    87.7 10274.0    72.7 10293.0
GR  65.1 10311.0    59.8 10330.0    56.1 10340.0    44.8 10379.0    45.1 10418.0
GR  47.9 10430.0    47.9 10441.0    50.0 10460.0    50.1 10481.0    51.0 10490.0
GR  50.7 10499.0    52.0 10511.0    51.8 10519.0    53.1 10531.0    53.0 10541.0
GR  55.0 10561.0    54.8 10578.0    56.9 10591.0    56.8 10599.0    60.0 10626.0
GR  61.9 10637.0    65.1 10643.0    82.5 10744.0    84.8 10800.0    85.9 10944.0
GR  86.9 13944.0   106.9 13946.0
X1273.80     47.   10299   10726    1056    1056    1056
X3    10
GR 105.7  7096.0    85.7  7098.0    84.7 10098.0    87.2 10122.0    79.8 10160.0
GR  79.2 10174.0    78.6 10190.0    79.8 10221.0    78.6 10248.0    78.6 10299.0
GR  73.3 10336.0    60.7 10360.0    59.1 10369.0    54.0 10380.0    51.0 10389.0
GR  48.9 10399.0    47.9 10411.0    45.9 10420.0    45.9 10432.0    46.9 10439.0
GR  45.9 10450.0    47.0 10460.0    45.9 10468.0    47.1 10480.0    47.0 10512.0
GR  44.1 10520.0    37.9 10530.0    38.1 10561.0    40.8 10569.0    42.0 10580.0
GR  45.8 10600.0    50.0 10610.0    51.0 10620.0    61.0 10639.0    65.1 10652.0
GR  73.3 10663.0    68.3 10675.0    68.6 10694.0    82.5 10726.0    83.5 10749.0
GR  82.5 10789.0    82.5 10800.0    83.6 10849.0    84.0 10901.0    85.5 10927.0
GR  86.5 13927.0   106.5 13929.0
X1274.20     30.   10297   10635    2112    2112    2112
X3    10
GR 106.1  7097.0    86.1  7099.0    85.1 10099.0    85.1 10148.0    85.1 10206.0
GR  85.1 10254.0    85.1 10284.0    85.1 10297.0    71.2 10326.0    65.0 10337.0
GR  55.1 10359.0    51.8 10369.0    48.1 10389.0    46.0 10409.0    45.9 10418.0
GR  43.1 10449.0    43.2 10458.0    41.1 10479.0    38.9 10490.0    36.0 10520.0
GR  38.1 10539.0    42.0 10548.0    44.1 10560.0    49.3 10569.0    65.4 10614.0
GR  86.8 10635.0    89.4 10699.0    88.2 10835.0    89.2 13835.0   109.2 13837.0
X1274.40     30.   10308   10695    1056    1056    1056
X3    10
GR 105.8  7187.0    85.8  7189.0    84.8 10189.0    84.7 10249.0    84.7 10276.0
GR  84.7 10299.0    84.7 10308.0    71.8 10357.0    65.5 10374.0    62.2 10391.0
GR  50.1 10427.0    50.2 10438.0    48.8 10449.0    49.1 10461.0    47.0 10480.0
GR  47.2 10520.0    41.1 10579.0    41.1 10590.0    43.1 10600.0    44.1 10610.0
GR  46.5 10621.0    65.3 10669.0    88.4 10695.0    88.8 10792.0    88.4 10795.0
GR  88.4 10810.0    89.5 10816.0    89.1 10897.0    90.1 13897.0   110.1 13899.0
X1274.60     36.   10283   10664    1056    1056    1056
X3    10
GR 105.2  7080.0    85.2  7082.0    84.2 10082.0    82.0 10137.0    83.9 10149.0
GR  85.9 10185.0    85.0 10199.0    81.6 10223.0    83.0 10254.0    78.4 10283.0
GR  72.5 10297.0    65.1 10308.0    60.8 10320.0    59.9 10330.0    51.0 10369.0
GR  41.1 10409.0    41.9 10419.0    41.8 10430.0    43.1 10438.0    43.1 10471.0
GR  41.9 10479.0    42.0 10489.0    41.2 10499.0    41.0 10510.0    42.0 10521.0
GR  44.1 10529.0    43.0 10539.0    42.8 10551.0    58.5 10608.0    89.6 10664.0
GR  90.1 10749.0    89.6 10800.0    89.6 10838.0    89.6 10865.0    90.6 13865.0
GR 110.6 13867.0
X1274.80     26.   10239   10664    1056    1056    1056
X3    10
GR 107.4  7146.0    87.4  7148.0    86.4 10148.0    86.4 10197.0    86.4 10239.0
GR  80.6 10279.0    58.9 10339.0    51.2 10359.0    41.2 10410.0    40.3 10418.0
GR  40.1 10459.0    39.2 10468.0    39.2 10478.0    38.2 10489.0    37.9 10510.0
GR  40.2 10529.0    47.3 10558.0    48.2 10568.0    59.3 10598.0    65.4 10604.0
GR  77.3 10625.0    88.1 10664.0    88.1 10748.0    88.7 10870.0    89.7 13870.0
GR 109.7 13872.0
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X1274.90     26.   10288   10717     528     528     528
X3    10
GR 105.4  7086.0    85.4  7088.0    84.4 10088.0    86.3 10198.0    86.4 10248.0
GR  84.4 10288.0    77.1 10353.0    65.2 10366.0    61.6 10378.0    56.1 10388.0
GR  54.0 10400.0    47.2 10420.0    47.1 10430.0    42.9 10439.0    40.1 10470.0
GR  39.8 10519.0    41.1 10528.0    41.0 10590.0    43.1 10600.0    48.1 10610.0
GR  47.9 10621.0    49.9 10629.0    88.5 10717.0    88.5 10917.0    89.5 13917.0
GR 109.5 13919.0
X1275.00     27.   10300   10714     528     528     528
X3    10
GR 107.3  7097.0    87.3  7099.0    86.3 10099.0    86.3 10152.0    86.7 10199.0
GR  87.7 10251.0    86.3 10300.0    65.4 10336.0    62.9 10350.0    58.4 10358.0
GR  45.0 10399.0    39.1 10459.0    39.0 10479.0    40.0 10489.0    40.1 10509.0
GR  39.1 10518.0    39.1 10559.0    40.2 10571.0    75.0 10643.0    84.4 10714.0
GR  84.4 10750.0    87.4 10771.0    88.7 10799.0    87.5 10849.0    86.3 10915.0
GR  87.3 13915.0   107.3 13917.0
X1275.20     42.   10327   10709    1056    1056    1056
X3    10
GR 104.2  7126.0    84.2  7128.0    83.2 10128.0    86.2 10259.0    80.6 10282.0
GR  80.6 10312.0    80.6 10327.0    75.3 10353.0    65.1 10375.0    60.0 10381.0
GR  54.0 10402.0    52.3 10410.0    48.0 10420.0    46.1 10430.0    47.0 10440.0
GR  45.8 10451.0    42.2 10471.0    38.1 10481.0    37.1 10491.0    37.0 10501.0
GR  38.2 10510.0    38.0 10520.0    40.2 10542.0    40.1 10551.0    41.4 10562.0
GR  40.0 10571.0    40.1 10593.0    41.4 10601.0    41.0 10611.0    43.1 10620.0
GR  46.4 10630.0    48.3 10641.0    65.5 10686.0    80.7 10709.0    85.3 10730.0
GR  86.4 10761.0    81.3 10797.0    88.7 10837.0    88.5 10849.0    84.9 10948.0
GR  85.9 13948.0   105.9 13950.0
X1275.40     37.   10260   10671    1056    1056    1056
X3    10
GR 105.9  7058.0    85.9  7060.0    84.9 10060.0    84.4 10099.0    82.2 10130.0
GR  86.1 10200.0    82.2 10260.0    67.7 10275.0    58.8 10299.0    53.7 10312.0
GR  51.2 10319.0    49.0 10330.0    46.3 10340.0    41.8 10359.0    42.2 10369.0
GR  39.9 10390.0    38.1 10399.0    38.2 10430.0    36.4 10435.0    35.1 10440.0
GR  34.1 10450.0    37.0 10461.0    39.1 10470.0    41.1 10489.0    41.0 10500.0
GR  42.1 10509.0    42.0 10520.0    43.1 10530.0    49.1 10561.0    79.7 10621.0
GR  76.1 10638.0    86.7 10671.0    88.4 10700.0    88.1 10751.0    86.7 10851.0
GR  87.7 13851.0   107.7 13853.0
X1275.80     38.   10294   10707    2112    2112    2112
X3    10
GR 106.0  7091.0    86.0  7093.0    85.0 10093.0    83.8 10146.0    83.8 10190.0
GR  83.8 10218.0    83.8 10247.0    84.1 10260.0    83.8 10294.0    76.4 10327.0
GR  65.1 10337.0    56.2 10358.0    52.0 10379.0    51.1 10389.0    48.1 10399.0
GR  47.0 10409.0    42.7 10430.0    39.8 10459.0    40.9 10470.0    41.1 10479.0
GR  39.9 10489.0    40.1 10500.0    38.1 10520.0    41.9 10540.0    44.9 10549.0
GR  50.1 10568.0    50.1 10580.0    56.9 10609.0    61.2 10619.0    65.2 10634.0
GR  80.7 10663.0    83.0 10693.0    88.5 10707.0    88.5 10748.0    88.5 10798.0
GR  88.5 10911.0    89.5 13911.0   109.5 13913.0
X1276.00     40.   10291   10706    1056    1056    1056
X3    10
GR 103.7  7047.0    83.7  7049.0    82.7 10049.0    84.0 10099.0    81.1 10168.0
GR  83.0 10194.0    80.1 10251.0    80.1 10267.0    80.1 10291.0    75.8 10344.0
GR  59.5 10368.0    55.3 10378.0    54.5 10390.0    52.5 10398.0    48.0 10441.0
GR  46.3 10449.0    43.1 10479.0    43.3 10489.0    40.4 10518.0    38.3 10530.0
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GR  36.4 10549.0    36.4 10560.0    37.3 10569.0    39.3 10581.0    42.5 10590.0
GR  42.4 10598.0    47.5 10610.0    50.7 10620.0    65.8 10641.0    78.0 10691.0
GR  88.8 10706.0    89.0 10712.0    88.8 10734.0    88.8 10757.0    88.8 10796.0
GR  88.8 10818.0    88.8 10848.0    88.8 10911.0    89.8 13911.0   109.8 13913.0
X1276.20     27.   10326   10671    1056    1056    1056
X3    10
GR 104.9  7102.0    84.9  7104.0    83.9 10104.0    80.7 10201.0    79.8 10235.0
GR  76.9 10264.0    80.0 10306.0    76.9 10326.0    57.8 10361.0    56.9 10371.0
GR  54.0 10381.0    49.9 10400.0    46.0 10411.0    42.1 10429.0    41.1 10440.0
GR  40.9 10551.0    43.1 10559.0    44.0 10570.0    49.9 10599.0    50.9 10609.0
GR  58.5 10630.0    85.3 10671.0    87.4 10700.0    89.4 10751.0    87.5 10800.0
GR  88.5 13800.0   108.5 13802.0
X1276.40     41.   10275   10721    1056    1056    1056
X3    10
GR 103.8  7081.0    83.8  7083.0    82.8 10083.0    82.7 10147.0    82.8 10223.0
GR  82.7 10246.0    82.8 10274.0    82.7 10275.0    77.4 10312.0    58.2 10339.0
GR  50.7 10363.0    47.2 10370.0    43.0 10389.0    43.1 10401.0    41.0 10420.0
GR  39.1 10429.0    39.1 10441.0    40.1 10449.0    40.4 10481.0    42.2 10500.0
GR  42.0 10522.0    43.2 10530.0    43.0 10542.0    45.1 10549.0    45.0 10561.0
GR  47.2 10570.0    48.0 10581.0    50.0 10590.0    51.0 10599.0    54.1 10610.0
GR  59.3 10621.0    65.4 10636.0    80.5 10658.0    79.3 10686.0    87.6 10721.0
GR  88.3 10750.0    87.6 10800.0    87.6 10886.0    88.4 10949.0    89.4 13949.0
GR 109.4 13951.0
X1276.60     35.   10256   10682    1056    1056    1056
X3    10
GR 105.7  7048.0    85.7  7050.0    84.7 10050.0    84.7 10097.0    84.7 10148.0
GR  84.7 10199.0    84.7 10256.0    65.1 10285.0    59.9 10299.0    56.0 10309.0
GR  50.1 10329.0    46.1 10348.0    45.2 10359.0    43.2 10369.0    39.8 10377.0
GR  40.0 10389.0    39.1 10398.0    39.1 10430.0    40.4 10438.0    39.9 10460.0
GR  41.1 10468.0    41.1 10488.0    42.1 10498.0    42.0 10519.0    43.0 10529.0
GR  49.0 10559.0    61.3 10588.0    79.6 10652.0    81.6 10672.0    85.6 10682.0
GR  85.6 10698.0    85.6 10750.0    89.6 10897.0    90.6 13897.0   110.6 13899.0
X1277.00     37.   10298   10620    2112    2112    2112
X3    10
GR 102.4  7096.0    82.4  7098.0    81.4 10098.0    81.7 10129.0    80.0 10153.0
GR  80.0 10201.0    80.9 10228.0    80.0 10298.0    77.4 10303.0    65.4 10320.0
GR  50.9 10349.0    43.9 10358.0    41.1 10368.0    40.3 10380.0    35.2 10388.0
GR  35.3 10399.0    33.1 10408.0    33.0 10428.0    34.1 10439.0    36.2 10448.0
GR  36.0 10459.0    36.9 10467.0    36.9 10479.0    38.2 10489.0    38.0 10511.0
GR  38.9 10519.0    42.3 10528.0    43.1 10539.0    54.8 10549.0    61.2 10559.0
GR  75.0 10620.0    77.3 10675.0    83.3 10729.0    84.1 10772.0    85.5 10822.0
GR  86.5 13822.0   106.5 13824.0
X1277.20     36.   10296   10693    1056    1056    1056
X3    10
GR 101.9  7145.0    81.9  7147.0    80.9 10147.0    81.2 10217.0    79.4 10248.0
GR  80.9 10272.0    78.8 10296.0    71.2 10307.0    63.1 10349.0    62.2 10359.0
GR  53.1 10390.0    49.1 10408.0    48.0 10419.0    48.4 10429.0    43.2 10479.0
GR  43.1 10490.0    44.4 10499.0    42.4 10508.0    41.3 10519.0    41.5 10528.0
GR  39.3 10539.0    39.2 10547.0    48.4 10579.0    61.4 10600.0    65.2 10609.0
GR  71.4 10684.0    76.5 10693.0    77.3 10712.0    81.4 10727.0    82.7 10750.0
GR  85.9 10770.0    88.7 10799.0    91.0 10850.0    88.7 10898.0    89.7 13898.0
GR 109.7 13900.0
X1277.40     36.   10428   10731    1056    1056    1056
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X3    10
GR 100.2  7138.0    80.2  7140.0    79.2 10140.0    76.6 10166.0    78.8 10193.0
GR  77.8 10209.0    75.7 10228.0    75.7 10259.0    75.7 10281.0    75.7 10312.0
GR  75.7 10348.0    75.7 10373.0    77.0 10416.0    75.7 10428.0    64.9 10433.0
GR  50.9 10470.0    47.8 10480.0    46.0 10489.0    47.0 10499.0    46.2 10509.0
GR  46.1 10539.0    44.2 10549.0    41.3 10558.0    39.3 10570.0    39.1 10580.0
GR  41.4 10598.0    62.9 10649.0    65.0 10661.0    75.3 10696.0    79.0 10724.0
GR  81.1 10731.0    81.1 10748.0    81.1 10767.0    89.8 10790.0    90.8 13790.0
GR 110.8 13792.0
X1277.60     37.   10333   10710    1056    1056    1056
X3    10
GR 103.6  7098.0    83.6  7100.0    82.6 10100.0    81.6 10149.0    82.9 10177.0
GR  81.6 10219.0    81.9 10257.0    81.6 10283.0    81.6 10333.0    76.0 10351.0
GR  67.7 10360.0    61.8 10370.0    59.3 10400.0    55.2 10419.0    54.2 10429.0
GR  47.8 10460.0    46.9 10470.0    45.0 10479.0    45.0 10490.0    41.1 10530.0
GR  41.1 10552.0    40.3 10562.0    43.0 10569.0    44.3 10579.0    44.0 10590.0
GR  50.1 10651.0    55.5 10672.0    67.6 10699.0    78.2 10710.0    78.3 10760.0
GR  83.8 10788.0    84.4 10848.0    85.4 10861.0    89.8 10891.0    87.8 10908.0
GR  88.8 13908.0   108.8 13910.0
X1278.00     27.   10367   10663    2112    2112    2112
X3    10
GR 101.8  7098.0    81.8  7100.0    80.8 10100.0    80.8 10160.0    81.2 10297.0
GR  80.8 10321.0    80.8 10367.0    58.1 10389.0    43.1 10418.0    40.0 10429.0
GR  39.2 10440.0    37.0 10449.0    37.1 10460.0    40.0 10468.0    41.8 10479.0
GR  56.0 10536.0    56.0 10549.0    60.1 10570.0    74.2 10620.0    79.2 10663.0
GR  79.5 10679.0    79.2 10699.0    79.2 10750.0    79.2 10798.0    79.2 10861.0
GR  80.2 13861.0   100.2 13863.0
X1278.20     38.   10280   10654    1056    1056    1056
X3    10
GR 103.8  7076.0    83.8  7078.0    82.8 10078.0    82.8 10205.0    82.8 10280.0
GR  74.0 10294.0    62.4 10319.0    58.8 10329.0    58.1 10338.0    56.1 10349.0
GR  51.9 10390.0    50.1 10398.0    50.1 10410.0    49.0 10418.0    48.9 10428.0
GR  51.0 10436.0    51.1 10449.0    52.9 10468.0    55.0 10478.0    55.1 10488.0
GR  56.9 10499.0    57.3 10521.0    60.1 10549.0    60.2 10560.0    63.3 10588.0
GR  65.2 10598.0    68.3 10617.0    76.9 10639.0    79.3 10654.0    79.3 10667.0
GR  81.5 10698.0    79.3 10768.0    79.3 10799.0    79.7 10816.0    79.3 10838.0
GR  79.3 10852.0    80.3 13852.0   100.3 13854.0
X1278.40     32.   10316   10707    1056    1056    1056
X3    10
GR 102.2  7116.0    82.2  7118.0    81.2 10118.0    81.7 10148.0    81.0 10200.0
GR  78.6 10231.0    78.6 10249.0    78.6 10316.0    75.3 10333.0    67.1 10344.0
GR  45.0 10389.0    43.0 10401.0    42.0 10411.0    42.0 10420.0    41.1 10430.0
GR  42.0 10440.0    42.2 10450.0    43.0 10462.0    44.9 10470.0    48.9 10509.0
GR  49.3 10530.0    49.9 10546.0    49.1 10558.0    53.0 10580.0    52.1 10588.0
GR  70.7 10627.0    75.6 10650.0    83.4 10707.0    83.4 10820.0    83.4 10909.0
GR  84.4 13909.0   104.4 13911.0
X1278.90     33.   10293   10637    2640    2640    2640
X3    10
GR 100.9  7089.0    80.9  7091.0    79.9 10091.0    79.9 10148.0    79.9 10164.0
GR  79.9 10199.0    79.9 10248.0    79.9 10293.0    73.9 10339.0    67.9 10366.0
GR  57.9 10389.0    55.2 10398.0    54.2 10409.0    54.3 10419.0    53.1 10427.0
GR  53.2 10449.0    51.0 10459.0    51.2 10479.0    50.1 10488.0    50.3 10498.0
GR  47.0 10531.0    45.0 10539.0    45.1 10550.0    44.1 10559.0    52.4 10579.0
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GR  54.0 10589.0    59.5 10600.0    71.4 10626.0    80.5 10636.0    80.5 10637.0
GR  80.5 10839.0    81.5 13839.0   101.5 13841.0
X1279.00     32.   10282   10678     528     528     528
X3    10
GR 102.4  7082.0    82.4  7084.0    81.4 10084.0    81.4 10199.0    81.4 10282.0
GR  74.2 10290.0    67.6 10305.0    63.8 10310.0    61.0 10319.0    60.0 10329.0
GR  52.1 10359.0    49.9 10379.0    50.9 10389.0    51.2 10410.0    49.9 10420.0
GR  50.0 10450.0    48.8 10459.0    49.0 10469.0    47.9 10479.0    46.1 10489.0
GR  46.0 10519.0    47.2 10529.0    50.9 10548.0    61.9 10579.0    68.3 10601.0
GR  76.5 10639.0    81.0 10678.0    81.0 10753.0    81.0 10800.0    81.0 10879.0
GR  82.0 13879.0   102.0 13881.0
X1279.60     29.   10280   10605    3168    3168    3168
X3    10
GR 102.9  7079.0    82.9  7081.0    81.9 10081.0    82.6 10148.0    80.8 10199.0
GR  80.6 10252.0    78.7 10280.0    62.1 10308.0    58.3 10317.0    56.0 10329.0
GR  54.3 10348.0    51.2 10359.0    51.1 10398.0    48.0 10429.0    48.1 10468.0
GR  49.2 10479.0    49.1 10498.0    48.1 10508.0    54.2 10518.0    63.2 10548.0
GR  69.0 10560.0    75.4 10577.0    80.6 10605.0    80.6 10649.0    81.6 10699.0
GR  80.6 10750.0    80.6 10803.0    81.6 13803.0   101.6 13805.0
X1280.00     34.   10239   10611    2112    2112    2112
X3    10
GR 102.1  7095.0    82.1  7097.0    81.1 10097.0    81.1 10239.0    72.4 10249.0
GR  68.5 10254.0    64.4 10270.0    58.8 10279.0    55.7 10292.0    52.0 10299.0
GR  51.1 10310.0    51.3 10330.0    50.1 10338.0    50.9 10350.0    53.2 10360.0
GR  54.1 10369.0    54.0 10390.0    58.9 10437.0    58.8 10450.0    59.9 10457.0
GR  59.8 10478.0    60.9 10487.0    60.7 10500.0    62.8 10520.0    64.9 10530.0
GR  68.7 10545.0    73.3 10568.0    79.8 10611.0    79.8 10650.0    81.6 10698.0
GR  81.3 10749.0    80.5 10813.0    81.5 13813.0   101.5 13815.0
X1280.20     32.   10283   10598    1056    1056    1056
X3    10
GR 103.3  7082.0    83.3  7084.0    82.3 10084.0    82.3 10199.0    82.3 10283.0
GR  74.1 10292.0    74.0 10298.0    62.8 10320.0    55.4 10338.0    47.3 10359.0
GR  43.1 10374.0    38.1 10390.0    37.3 10399.0    35.3 10410.0    36.1 10420.0
GR  38.8 10430.0    43.0 10439.0    49.1 10468.0    50.0 10478.0    52.1 10489.0
GR  56.1 10499.0    60.2 10521.0    63.0 10529.0    65.2 10540.0    68.9 10544.0
GR  81.8 10598.0    81.8 10649.0    81.8 10699.0    81.8 10749.0    81.8 10798.0
GR  82.8 13798.0   102.8 13800.0
X1280.60     30.   10228   10556    2112    2112    2112
X3    10
GR 101.9  7075.0    81.9  7077.0    80.9 10077.0    80.9 10192.0    80.9 10228.0
GR  76.9 10263.0    69.2 10304.0    59.2 10321.0    51.2 10339.0    50.1 10348.0
GR  47.9 10360.0    45.0 10370.0    45.2 10390.0    44.3 10400.0    44.1 10410.0
GR  45.2 10419.0    44.2 10428.0    43.9 10461.0    45.1 10469.0    45.2 10490.0
GR  47.0 10499.0    51.5 10510.0    60.2 10529.0    82.5 10556.0    82.7 10599.0
GR  82.5 10649.0    82.5 10702.0    82.5 10759.0    83.5 13759.0   103.5 13761.0
X1281.00     30.   10290   10599    2112    2112    2112
X3    10
GR 103.8  7088.0    83.8  7090.0    82.8 10090.0    82.8 10196.0    82.8 10248.0
GR  82.8 10290.0    69.4 10310.0    60.2 10329.0    54.2 10349.0    52.0 10356.0
GR  49.2 10369.0    49.0 10419.0    50.0 10428.0    49.0 10438.0    48.8 10489.0
GR  50.1 10500.0    49.9 10510.0    51.1 10520.0    58.5 10538.0    61.8 10549.0
GR  69.4 10558.0    74.5 10573.0    79.0 10593.0    79.5 10599.0    79.6 10650.0
GR  79.5 10700.0    79.5 10750.0    79.7 10799.0    80.7 13799.0   100.7 13801.0
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X1 281.6      30   10335   10663    3168    3168    3168
X3    10
GR 103.7    8134    83.7    8136    78.7   10136    79.4   10246    78.7   10306
GR  77.6   10335      70   10379    66.3   10388    64.1   10397   56.10   10419
GR  56.1   10448    54.2   10458    55.2   10468    55.1   10487    54.2   10498
GR  54.4   10506    52.1   10527    52.3   10557    49.3   10569    49.2   10578
GR  47.9   10590    49.1   10599    63.7   10629    64.1   10637    71.6   10648
GR  80.4   10662    80.4   10663    80.4   10861    85.4  12861.   105.4   12863
NH     5     .04     101     .03     500     .04    3100    .025    4002     .04
NH  4100
X1 283.8      16    2100    4002   11616   11616   11616
X3    10                                                  79
GR    91       0      81     101      55     200      52     300      54     400
GR    83     500      82    2100      81    3100      57    3172      57    3290
GR    44    3329      44    3807      78    3909      78    3939      99    4002
GR    99    4100
NH     4    .030     310     .04    4301    .025    5280     .04    5300
X1 286.1      12    4301    5280  12144.   12144   12144
X5     5      77      77      77      77      77
X5
GR    99       0      79       1      79     301      81     310      81    3301
GR    99    3801      99    4301      65    4437      65    4645      47    4646
GR    47    5124      99    5280      99    5300
NH     5     .04     700     .03    1000     .04    5500   .0250    6336    .040
NH  7500
X1 286.4      15    3700    6336    1584    1584    1584
X3    10                                                  79
GR    99       0      83       1      82     700      49     800      55     900
GR    82    1000      83    3700      82    5500      65    5545      65    5699
GR    47    5753      47    6231      82    6336      83    7499      99    7500
NC  .040    .040    .030
X1288.64     14.   10344   11162   11827   11827   11827
X3    10
GR 107.6  7147.0    87.6  7149.0    86.6 10149.0    86.6 10201.0    86.6 10254.0
GR  87.6   10297    86.6   10344      65   10410      65   10564      47   10618
GR    47   11096      83   11162      84   14162      99   14163
X1288.82     29.   10300   10606     950     950     950
X3    10
GR 108.4  7097.0    88.4  7099.0    87.4 10099.0    87.4 10147.0    87.4 10247.0
GR  87.9 10296.0    87.4 10300.0    82.3 10318.0    75.5 10324.0    64.9 10338.0
GR  61.0 10348.0    57.5 10358.0    52.9 10368.0    49.7 10379.0    50.1 10459.0
GR  46.8 10470.0    50.0 10499.0    49.8 10510.0    54.1 10529.0    55.0 10539.0
GR  71.8 10591.0    75.8 10603.0    84.3 10606.0    84.9 10703.0    85.6 10750.0
GR  84.6 10799.0    84.3 10848.0    85.3 13848.0   105.3 13850.0
X1289.00     29.   10348   10683     950     950     950
X3    10
GR 105.9  7146.0    85.9  7148.0    84.9 10148.0    84.9 10199.0    86.3 10247.0
GR  84.9 10298.0    84.9 10348.0    76.3 10358.0    65.2 10379.0    57.8 10389.0
GR  53.2 10398.0    52.2 10409.0    52.2 10419.0    50.2 10439.0    51.3 10449.0
GR  50.4 10460.0    52.2 10468.0    52.3 10550.0    54.2 10570.0    60.6 10601.0
GR  74.1 10640.0    76.3 10646.0    80.9 10654.0    86.9 10683.0    87.5 10699.0
GR  86.9 10748.0    86.9 10897.0    87.9 13897.0   107.9 13899.0
X1289.20     34.   10294   10605    1056    1056    1056
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X3    10
GR 107.1  7095.0    87.1  7097.0    86.1 10097.0    86.1 10294.0    79.8 10299.0
GR  78.8 10303.0    76.1 10308.0    75.1 10318.0    74.4 10329.0    64.2 10339.0
GR  59.1 10349.0    52.1 10358.0    51.0 10369.0    51.2 10390.0    49.9 10398.0
GR  51.1 10409.0    51.1 10420.0    50.1 10428.0    58.4 10468.0    58.2 10479.0
GR  62.2 10499.0    62.1 10510.0    65.0 10539.0    69.1 10559.0    69.1 10568.0
GR  72.2 10579.0    76.0 10594.0    80.2 10597.0    83.5 10605.0    83.6 10649.0
GR  83.5 10751.0    83.5 10799.0    84.5 13799.0   104.5 13801.0
X1289.40     33.   10295   10624    1056    1056    1056
X3    10
GR 107.4  7098.0    87.4  7100.0    86.4 10100.0    86.4 10295.0    75.7 10304.0
GR  64.9 10318.0    55.5 10340.0    55.1 10350.0    51.9 10359.0    52.1 10380.0
GR  51.0 10389.0    53.1 10399.0    53.0 10409.0    54.0 10418.0    53.9 10429.0
GR  55.4 10439.0    55.0 10460.0    56.3 10468.0    56.2 10489.0    57.3 10499.0
GR  57.1 10520.0    60.3 10548.0    66.9 10569.0    72.0 10578.0    76.0 10594.0
GR  81.7 10602.0    86.8 10624.0    86.8 10647.0    86.8 10698.0    86.8 10748.0
GR  86.8 10849.0    87.8 13849.0   107.8 13851.0
X1289.60     32.   10302   10620    1056    1056    1056
X3    10
GR 106.8  7146.0    86.8  7148.0    85.8 10148.0    85.8 10198.0    85.8 10249.0
GR  85.8 10302.0    80.5 10305.0    78.4 10309.0    65.8 10320.0    56.7 10349.0
GR  56.1 10359.0    53.8 10369.0    51.9 10389.0    51.9 10428.0    53.0 10440.0
GR  53.0 10479.0    53.9 10487.0    53.9 10509.0    55.0 10519.0    55.0 10530.0
GR  57.2 10552.0    73.9 10579.0    76.0 10591.0    81.7 10596.0    86.3 10620.0
GR  88.1 10650.0    87.6 10700.0    86.3 10750.0    86.7 10800.0    86.3 10850.0
GR  87.3 13850.0   107.3 13852.0
X1289.80     37.   10337   10670    1056    1056    1056
X3    10
GR 105.1  7097.0    85.1  7099.0    84.1 10099.0    84.3 10149.0    84.2 10200.0
GR  83.6 10251.0    84.3 10300.0    83.6 10337.0    82.5 10348.0    80.6 10358.0
GR  67.0 10372.0    60.6 10386.0    51.6 10410.0    49.8 10430.0    49.7 10479.0
GR  51.0 10489.0    50.9 10510.0    49.7 10520.0    51.2 10531.0    50.7 10541.0
GR  53.1 10552.0    53.9 10559.0    53.5 10570.0    55.0 10579.0    54.7 10590.0
GR  56.1 10600.0    60.4 10610.0    67.0 10630.0    71.6 10640.0    76.0 10656.0
GR  87.5 10670.0    88.7 10698.0    87.5 10799.0    87.5 10851.0    88.0 10899.0
GR  89.0 13899.0   109.0 13901.0
X1289.91     35.   10191   10597     580     580     580
X3    10
GR 105.6  7080.0    85.6  7082.0    84.6 10082.0    84.6 10098.0    84.6 10107.0
GR  84.7 10122.0    84.6 10191.0    83.1 10199.0    79.2 10249.0    81.2 10283.0
GR  78.6 10300.0    76.0 10304.0    73.0 10319.0    63.4 10340.0    60.0 10348.0
GR  56.9 10359.0    54.9 10368.0    52.1 10378.0    48.9 10408.0    49.0 10430.0
GR  47.9 10438.0    48.2 10449.0    46.9 10458.0    47.2 10509.0    45.0 10530.0
GR  45.0 10541.0    57.7 10568.0    76.0 10584.0    82.2 10595.0    87.9 10597.0
GR  87.9 10649.0    87.9 10750.0    87.9 10800.0    88.9 13800.0   108.9 13802.0
X1290.12     34. 10330.2 10628.3    1108    1108    1108
X3    10
GR 105.7  7122.8    85.7  7124.8    84.7 10124.8    84.9 10141.2    84.7 10159.4
GR  84.7 10174.8    85.1 10200.9    84.7 10252.2    84.7 10289.5    84.7 10330.2
GR  80.7 10349.4    76.3 10358.7    68.4 10379.3    62.3 10389.7    55.0 10401.2
GR  52.2 10410.9    49.2 10440.0    49.2 10461.9    48.1 10469.9    48.0 10509.7
GR  44.9 10540.3    41.0 10562.0    40.9 10571.0    50.4 10590.6    60.2 10599.2
GR  80.5 10622.9    82.5 10627.7    87.9 10627.8    87.8 10628.3    88.5 10649.1
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GR  87.8 10700.4    88.5 10850.0    89.5 13850.0   109.5 13852.0
X1290.30     32.   10306   10619     950     950     950
X3    10
GR 104.6  7095.0    84.6  7097.0    83.6 10097.0    84.2 10192.0    85.6 10250.0
GR  83.6 10306.0    82.1 10316.0    75.9 10320.0    60.1 10349.0    56.1 10360.0
GR  53.8 10370.0    54.1 10380.0    49.9 10389.0    50.1 10401.0    47.0 10410.0
GR  47.2 10459.0    46.1 10468.0    46.0 10480.0    46.9 10489.0    47.1 10500.0
GR  46.0 10510.0    45.9 10540.0    55.0 10569.0    60.7 10580.0    76.0 10594.0
GR  82.7 10604.0    88.5 10619.0    88.5 10650.0    88.5 10700.0    88.5 10850.0
GR  89.5 13850.0   109.5 13852.0
X1290.48     39.   10295   10613     950     950     950
X3    10
GR 106.6  7097.0    86.6  7099.0    85.6 10099.0    85.6 10119.0    85.6 10199.0
GR  85.6 10249.0    85.6 10295.0    79.0 10300.0    75.8 10315.0    72.0 10329.0
GR  67.8 10339.0    61.4 10350.0    53.9 10368.0    51.0 10379.0    48.8 10390.0
GR  50.0 10401.0    48.9 10408.0    49.0 10420.0    49.8 10429.0    47.8 10448.0
GR  49.0 10459.0    48.9 10490.0    51.1 10509.0    50.0 10519.0    53.2 10529.0
GR  51.0 10540.0    54.7 10549.0    58.2 10560.0    75.9 10594.0    82.0 10598.0
GR  84.7 10613.0    84.7 10649.0    85.2 10696.0    91.2 10740.0    95.5 10749.0
GR 104.5 10798.0   106.4 10812.0   107.4 13812.0   127.4 13814.0
X1290.70     41.   10361   10653    1161    1161    1161
X3    10
GR 106.3  7156.0    86.3  7158.0    85.3 10158.0    84.7 10198.0    84.6 10230.0
GR  84.5 10247.0    84.5 10269.0    84.5 10297.0    84.5 10323.0    84.6 10348.0
GR  84.5 10361.0    81.6 10377.0    75.8 10384.0    71.1 10398.0    64.0 10411.0
GR  56.9 10428.0    52.9 10450.0    52.3 10459.0    49.2 10469.0    50.2 10479.0
GR  50.1 10490.0    49.1 10498.0    49.1 10509.0    50.3 10518.0    50.1 10549.0
GR  51.3 10557.0    49.2 10578.0    50.3 10588.0    53.5 10598.0    55.2 10608.0
GR  63.2 10628.0    76.0 10648.0    81.8 10653.0    85.7 10682.0    89.2 10697.0
GR  96.0 10747.0   105.0 10796.0   109.6 10812.0   107.3 10848.0   108.3 13848.0
GR 128.3 13850.0
X1291.05     36.   10282   10610    1848    1848    1848
X3    10
GR 106.6  7070.0    86.6  7072.0    85.6 10072.0    84.4 10098.0    85.8 10147.0
GR  84.4 10198.0    86.4 10249.0    84.6 10273.0    82.3 10282.0    76.2 10286.0
GR  65.1 10308.0    59.9 10319.0    53.9 10339.0    47.8 10369.0    46.9 10380.0
GR  44.7 10390.0    43.8 10398.0    41.8 10410.0    37.9 10449.0    34.7 10461.0
GR  34.1 10470.0    32.2 10480.0    31.0 10490.0    31.0 10501.0    32.0 10511.0
GR  32.8 10522.0    46.9 10549.0    56.4 10571.0    57.9 10578.0    81.8 10610.0
GR  83.6 10648.0    83.4 10699.0    81.8 10751.0    82.3 10800.0    83.3 10900.0
GR 103.3 10902.0
X1291.08     37.   10272   10621     158     158     158
X3    10
GR 106.6  7069.0    86.6  7071.0    85.6 10071.0    84.5 10100.0    84.5 10199.0
GR  84.8 10248.0    84.5 10272.0    82.3 10284.0    70.8 10300.0    67.6 10310.0
GR  61.2 10328.0    60.4 10340.0    57.9 10348.0    58.2 10358.0    56.9 10368.0
GR  57.0 10378.0    53.2 10421.0    53.3 10429.0    51.0 10439.0    51.2 10449.0
GR  50.2 10459.0    48.3 10468.0    47.2 10480.0    43.0 10499.0    42.2 10509.0
GR  42.0 10529.0    43.1 10540.0    45.2 10549.0    50.3 10559.0    53.4 10570.0
GR  81.8 10604.0    86.7 10621.0    86.9 10649.0    86.7 10800.0    86.7 10850.0
GR  87.7 10950.0   107.7 10952.0
X1291.30     33. 10285.5 10615.9    1161    1161    1161
X3    10
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GR 107.7  7097.8    87.7  7099.8    86.7 10099.8    86.8 10249.7    86.7 10285.5
GR  84.8 10300.4    80.4 10313.9    75.8 10321.0    65.9 10350.5    60.0 10380.4
GR  58.0 10400.3    55.9 10410.8    56.1 10431.7    54.0 10450.6    47.9 10480.0
GR  44.0 10489.5    44.3 10500.5    42.9 10511.4    45.9 10539.7    45.0 10550.6
GR  81.8 10606.0    81.5 10615.9    81.5 10650.2    80.3 10691.4    80.7 10697.3
GR  80.7 10718.6    80.9 10728.6    80.3 10733.5    80.5 10750.1    80.5 10799.8
GR  80.5 10816.3    80.5 11115.3   105.5 11116.3
X1291.46     37.   10317   10607     700    1000     844
X3    10
GR 105.4  7096.0    85.4  7098.0    84.4 10098.0    84.4 10150.0    86.8 10202.0
GR  84.5 10251.0    84.4 10317.0    81.5 10329.0    76.5 10332.0    62.9 10370.0
GR  50.9 10390.0    50.1 10401.0    50.2 10410.0    48.1 10431.0    48.1 10440.0
GR  47.1 10451.0    47.1 10461.0    46.1 10470.0    46.1 10481.0    45.1 10489.0
GR  45.0 10499.0    44.2 10510.0    44.0 10521.0    45.4 10530.0    45.2 10541.0
GR  46.1 10551.0    53.5 10571.0    81.1 10607.0    80.1 10650.0    80.1 10683.0
GR  80.5 10692.0    80.2 10700.0    80.5 10716.0    80.3 10727.0    80.1 10747.0
GR  80.1 11106.0   107.1 11107.0
X1291.64     30.   10253   10551     600    1000     950
X3    10
GR 107.9  7048.0    87.9  7050.0    86.9 10050.0    86.9 10146.0    87.4 10247.0
GR  86.9 10253.0    76.3 10265.0    71.4 10281.0    69.8 10292.0    57.3 10320.0
GR  53.3 10337.0    52.3 10348.0    50.2 10360.0    48.3 10379.0    49.1 10389.0
GR  49.3 10431.0    50.3 10437.0    50.2 10481.0    51.0 10488.0    53.3 10499.0
GR  74.1 10538.0    76.8 10550.0    80.5 10551.0    82.5 10569.0    80.5 10651.0
GR  80.7 10701.0    80.5 10750.0    83.1 10798.0    84.1 11051.0   104.1 11053.0
X1291.82     34.   10300   10592     900     950     950
X3    10
GR 108.0  7097.0    88.0  7099.0    87.0 10099.0    89.2 10201.0    89.5 10250.0
GR  86.2 10300.0    77.3 10309.0    74.2 10320.0    60.3 10349.0    51.4 10378.0
GR  50.2 10390.0    47.0 10400.0    48.1 10408.0    48.3 10428.0    47.2 10439.0
GR  48.4 10447.0    48.3 10458.0    47.4 10468.0    47.4 10479.0    48.3 10489.0
GR  50.6 10498.0    51.5 10510.0    54.6 10519.0    52.3 10529.0    65.4 10559.0
GR  68.3 10568.0    82.8 10592.0    83.2 10598.0    80.9 10619.0    80.8 10648.0
GR  82.8 10699.0    82.8 10750.0    83.8 11192.0   103.8 11194.0
X1291.92     32.   10278   10616     600     400     528
X3    10
GR 108.0  7078.0    88.0  7080.0    87.0 10080.0    88.6 10150.0    87.0 10199.0
GR  87.0 10251.0    87.0 10278.0    83.4 10294.0    75.8 10303.0    65.7 10330.0
GR  61.9 10350.0    61.0 10362.0    49.9 10412.0    46.3 10419.0    44.2 10431.0
GR  44.2 10441.0    43.2 10450.0    44.2 10459.0    44.0 10500.0    47.1 10510.0
GR  51.8 10533.0    54.2 10540.0    55.3 10551.0    58.0 10560.0    71.1 10579.0
GR  75.3 10588.0    76.2 10603.0    80.4 10616.0    80.4 10647.0    80.4 10675.0
GR  81.4 11316.0   107.4 11320.0
X1292.10     28.   10291   10581     700     850     950
X3    10
GR 108.0  7085.0    88.0  7087.0    87.0 10087.0    87.0 10149.0    87.0 10291.0
GR  73.9 10299.0    56.0 10320.0    50.8 10330.0    44.2 10350.0    43.9 10381.0
GR  44.8 10390.0    47.9 10399.0    48.7 10410.0    53.0 10429.0    55.1 10449.0
GR  54.3 10459.0    54.1 10469.0    57.9 10489.0    59.2 10501.0    67.7 10529.0
GR  74.3 10540.0    76.1 10562.0    82.5 10581.0    83.4 10651.0    82.5 10744.0
GR  82.5 10801.0    83.5 11781.0   103.5 11785.0
X1292.28     33.   10301   10623     750     200     950
X3    10
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GR 109.2  7098.0    89.2  7100.0    88.2 10100.0    89.2 10148.0    89.3 10198.0
GR  88.0 10248.0    88.5 10294.0    88.0 10301.0    82.9 10302.0    60.6 10340.0
GR  58.0 10349.0    57.0 10360.0    56.9 10371.0    55.7 10382.0    56.1 10421.0
GR  52.8 10451.0    53.1 10461.0    51.8 10471.0    52.2 10501.0    54.8 10530.0
GR  56.6 10538.0    58.8 10560.0    61.8 10569.0    74.2 10590.0    76.0 10606.0
GR  81.1 10610.0    81.6 10623.0    80.6 10650.0    80.6 10701.0    80.6 10750.0
GR  80.6 10846.0    80.6 12723.0   106.6 12725.0
X1292.46     36.   10285   10690     400     950     950
X3    10
GR 109.3  7076.0    89.3  7078.0    88.3 10078.0    88.3 10150.0    88.3 10231.0
GR  88.3 10285.0    76.5 10297.0    59.0 10340.0    58.3 10350.0    54.2 10358.0
GR  54.3 10368.0    49.1 10378.0    47.1 10389.0    47.3 10401.0    50.6 10429.0
GR  52.2 10438.0    56.5 10478.0    56.3 10499.0    58.5 10509.0    59.4 10518.0
GR  59.4 10539.0    62.3 10548.0    63.5 10558.0    63.3 10568.0    64.4 10580.0
GR  69.3 10608.0    75.7 10629.0    76.8 10642.0    79.6 10647.0    84.2 10678.0
GR  82.2 10690.0    81.2 10748.0    81.2 10798.0    81.2 10850.0    82.2 13390.0
GR 108.2 13395.0
X1292.60     34.   10289   10644    1100     600     739
X3    10
GR 108.5  7087.0    88.5  7089.0    87.5 10089.0    87.5 10202.0    87.5 10289.0
GR  79.7 10297.0    75.9 10303.0    59.0 10339.0    57.9 10349.0    56.2 10358.0
GR  54.8 10370.0    53.1 10381.0    45.9 10391.0    47.2 10400.0    47.2 10411.0
GR  45.0 10419.0    46.3 10429.0    45.8 10450.0    47.8 10469.0    50.0 10480.0
GR  47.9 10500.0    47.5 10530.0    49.2 10539.0    49.1 10550.0    64.4 10593.0
GR  71.9 10611.0    73.9 10618.0    76.0 10632.0    82.3 10644.0    83.3 10650.0
GR  83.3 10799.0    83.3 10846.0    84.3 13644.0   110.3 13650.0
X1293.07     38.   10037   10539    1500    1000    2481
X3    10
GR 111.8  7017.0    86.8  7019.0    85.8 10019.0    85.3 10037.0    84.0 10039.0
GR  62.5 10081.0    59.5 10101.0    56.1 10109.0    53.5 10129.0    54.0 10140.0
GR  52.8 10149.0    53.1 10171.0    54.0 10180.0    52.8 10192.0    54.7 10199.0
GR  55.2 10220.0    53.7 10230.0    53.9 10252.0    54.9 10258.0    55.0 10279.0
GR  53.7 10290.0    54.0 10321.0    56.1 10340.0    56.3 10351.0    58.1 10363.0
GR  60.7 10391.0    62.8 10401.0    63.9 10413.0    65.7 10420.0    66.7 10429.0
GR  68.0 10481.0    65.9 10490.0    65.9 10523.0    77.9 10539.0    78.0 10553.0
GR  78.2 11003.0    79.2 11490.0    99.2 11495.0
X1293.35     42.   10226   10671    1100    1200    1478
X3    10
GR 109.3  7024.0    89.3  7026.0    88.3 10026.0    84.9 10099.0    84.9 10149.0
GR  84.9 10226.0    81.8 10240.0    76.4 10255.0    71.7 10270.0    66.9 10282.0
GR  63.2 10290.0    59.1 10299.0    54.8 10320.0    54.1 10330.0    54.4 10351.0
GR  53.0 10359.0    54.3 10369.0    54.0 10399.0    55.4 10411.0    55.1 10429.0
GR  56.1 10438.0    56.0 10467.0    57.0 10477.0    57.3 10490.0    55.2 10497.0
GR  55.2 10509.0    56.3 10518.0    54.1 10529.0    53.2 10538.0    52.9 10549.0
GR  54.0 10559.0    54.0 10578.0    57.4 10594.0    59.6 10599.0    61.1 10608.0
GR  76.0 10651.0    82.6 10658.0    88.1 10671.0    88.1 10699.0    88.1 10848.0
GR  89.1 12271.0   109.1 12280.0
X1293.57     51. 10060.6 10848.5     800    1300    1161
X3    10
GR 110.0  7004.8    90.0  7006.8    89.0 10006.8    86.0 10048.2    86.0 10060.6
GR  86.1 10060.7    80.4 10077.3    60.7 10108.6    60.4 10118.0    56.8 10128.6
GR  52.9 10137.3    51.9 10149.3    49.9 10157.3    49.8 10180.2    54.0 10187.5
GR  53.9 10199.4    56.8 10207.2    59.8 10238.5    60.0 10267.8    61.0 10279.2
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Subsegment 080101
Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

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GR  60.9 10288.7    61.7 10298.6    62.1 10337.9    62.8 10348.3    64.9 10358.6
GR  66.8 10377.9    66.9 10388.9    69.0 10406.7    68.8 10418.1    69.8 10429.0
GR  70.0 10468.8    67.7 10478.9    65.6 10487.4    64.8 10498.9    64.6 10528.8
GR  65.7 10538.2    65.8 10560.1    66.8 10567.0    66.6 10698.8    67.9 10708.2
GR  67.6 10718.2    69.7 10728.1    73.6 10768.7    76.1 10784.0    77.8 10813.3
GR  81.8 10848.5    81.8 10898.7    82.4 10913.6    91.0 10948.5    92.0 11445.5
GR 112.0 11448.5
X1293.75     40.   10293   10709     950     950     950
X3    10
GR 108.7  7084.0    88.7  7086.0    87.7 10086.0    87.7 10097.0    88.7 10151.0
GR  87.7 10199.0    88.5 10239.0    87.7 10250.0    88.5 10286.0    87.7 10293.0
GR  83.3 10295.0    82.4 10300.0    70.6 10320.0    65.0 10340.0    57.9 10350.0
GR  52.8 10361.0    51.0 10380.0    51.1 10391.0    48.9 10410.0    48.7 10451.0
GR  50.1 10462.0    51.9 10471.0    53.2 10482.0    58.8 10510.0    59.9 10520.0
GR  61.7 10529.0    63.2 10540.0    63.2 10551.0    65.1 10571.0    64.6 10581.0
GR  67.8 10609.0    73.9 10640.0    76.9 10677.0    78.0 10703.0    79.3 10709.0
GR  81.3 10803.0    80.6 10852.0    82.0 10899.0    83.0 10999.0   103.0 11001.0
X1293.94     41. 10275.3 10655.6    1003    1003    1003
X3    10
GR 109.8  7069.1    89.8  7071.1    88.8 10071.1    87.9 10100.4    88.3 10149.6
GR  85.7 10201.8    85.8 10274.9    85.7 10275.3    82.4 10289.8    76.1 10302.2
GR  73.1 10309.6    63.0 10328.0    59.1 10348.9    55.6 10379.7    56.1 10389.2
GR  54.3 10408.5    54.1 10419.0    55.0 10428.9    55.1 10439.9    52.0 10470.7
GR  54.1 10478.1    55.0 10488.6    52.9 10509.4    52.9 10519.4    55.1 10527.8
GR  55.2 10538.8    54.1 10547.2    53.9 10559.1    55.8 10567.6    64.0 10587.5
GR  67.3 10598.4    72.3 10609.3    75.1 10618.3    76.3 10632.2    83.2 10643.6
GR  84.5 10648.6    89.0 10655.6    89.0 10667.0    89.0 10848.9    90.0 10948.9
GR 110.0 10950.9
X1294.30     42.   10300   10662    1900    1900    1900
X3    10
GR 107.0  7098.0    87.0  7100.0    86.0 10100.0    86.0 10199.0    86.4 10293.0
GR  86.1 10299.0    86.0 10300.0    81.2 10334.0    76.4 10344.0    71.2 10359.0
GR  70.1 10370.0    66.7 10380.0    62.7 10390.0    60.0 10400.0    57.9 10410.0
GR  56.9 10420.0    54.0 10430.0    52.1 10439.0    51.0 10450.0    51.1 10470.0
GR  49.1 10481.0    47.1 10500.0    45.1 10509.0    45.1 10520.0    43.1 10540.0
GR  44.3 10551.0    44.1 10562.0    46.0 10570.0    50.0 10583.0    56.1 10600.0
GR  64.0 10611.0    68.0 10631.0    73.0 10640.0    76.0 10652.0    79.4 10653.0
GR  86.8 10662.0    86.8 10750.0    86.8 10800.0    86.8 10851.0    86.8 10901.0
GR  87.8 11001.0   107.8 11003.0
X1294.47     37.   10299   10649     897     897     897
X3    10
GR 106.9  7097.0    86.9  7099.0    85.9 10099.0    88.8 10198.0    86.5 10249.0
GR  84.5 10275.0    86.0 10290.0    84.5 10299.0    79.0 10309.0    76.3 10313.0
GR  72.0 10329.0    68.0 10339.0    62.0 10358.0    57.0 10369.0    55.0 10378.0
GR  55.0 10389.0    53.0 10400.0    53.1 10430.0    50.2 10459.0    48.1 10470.0
GR  49.2 10478.0    48.1 10489.0    48.1 10499.0    47.1 10509.0    46.9 10530.0
GR  48.9 10539.0    51.0 10559.0    57.2 10580.0    71.0 10609.0    79.9 10617.0
GR  83.6 10633.0    85.0 10649.0    86.7 10699.0    86.8 10799.0    86.6 10848.0
GR  87.6 13848.0   107.6 13850.0
X1294.50     35. 10300.4 10642.8     158     158     158
X3    10
GR 110.1  7105.4    90.1  7107.4    89.1 10107.4    89.1 10198.2    89.1 10252.1
GR  89.1 10300.4    85.1 10302.3    76.3 10320.6    75.3 10331.0    68.9 10352.3
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Subsegment 080101
Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

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GR  59.8 10371.1    54.0 10390.9    53.1 10401.8    52.8 10410.8    51.8 10420.2
GR  52.0 10440.2    50.9 10449.6    52.2 10461.1    51.1 10469.1    50.9 10480.5
GR  52.1 10491.0    50.2 10510.4    50.0 10519.9    52.0 10539.4    52.0 10570.8
GR  56.0 10589.8    76.2 10635.3    81.5 10635.6    83.0 10642.8    83.1 10649.8
GR  83.0 10699.6    83.0 10750.9    83.0 10850.1    84.0 13850.1   104.0 13852.1
X1294.88     37.   10251   10667    2006    2006    2006
X3    10
GR 109.7  7098.0    89.7  7100.0    88.7 10100.0    88.7 10125.0    88.7 10151.0
GR  88.7 10201.0    88.7 10251.0    82.1 10300.0    81.3 10305.0    81.5 10347.0
GR  81.0 10350.0    75.9 10369.0    69.4 10381.0    67.9 10390.0    67.0 10400.0
GR  66.8 10411.0    62.9 10429.0    60.2 10440.0    48.4 10451.0    40.1 10460.0
GR  42.3 10480.0    41.7 10500.0    45.1 10531.0    51.6 10551.0    57.9 10580.0
GR  59.8 10601.0    61.9 10610.0    73.9 10639.0    76.1 10654.0    80.6 10667.0
GR  84.1 10699.0    83.3 10750.0    87.2 10800.0    83.5 10850.0    85.4 10899.0
GR  86.4 13899.0   106.4 13901.0
X1295.08     42.   10329   10721    1056    1056    1056
X3    10
GR 107.1  7125.0    87.1  7127.0    86.1 10127.0    87.7 10149.0    88.3 10198.0
GR  86.1 10249.0    85.7 10277.0    86.0 10328.0    85.7 10329.0    76.3 10343.0
GR  73.2 10359.0    73.1 10368.0    70.2 10379.0    65.9 10389.0    63.2 10398.0
GR  61.2 10409.0    58.1 10420.0    56.2 10427.0    55.2 10438.0    55.3 10449.0
GR  54.2 10459.0    54.1 10469.0    55.3 10478.0    54.2 10489.0    54.1 10500.0
GR  55.2 10510.0    55.3 10562.0    54.0 10569.0    54.1 10580.0    55.2 10589.0
GR  55.3 10610.0    71.4 10650.0    74.5 10660.0    76.4 10669.0    81.2 10675.0
GR  82.4 10700.0    83.4 10713.0    88.2 10721.0    88.2 10798.0    88.2 10950.0
GR  89.2 13950.0   109.2 13952.0
X1295.28     37.   10288   10696    1056    1056    1056
X3    10
GR 108.3  7078.0    88.3  7080.0    87.3 10080.0    87.3 10100.0    87.5 10203.0
GR  87.3 10251.0    87.3 10288.0    84.0 10300.0    80.0 10352.0    79.2 10375.0
GR  73.9 10401.0    73.1 10411.0    69.1 10420.0    67.2 10431.0    64.0 10441.0
GR  61.1 10470.0    61.1 10481.0    60.0 10491.0    61.0 10500.0    59.9 10509.0
GR  60.0 10520.0    57.2 10550.0    53.0 10571.0    51.1 10590.0    51.1 10601.0
GR  50.1 10611.0    50.1 10621.0    52.1 10631.0    50.0 10642.0    54.8 10654.0
GR  74.1 10681.0    75.2 10688.0    86.8 10696.0    87.4 10700.0    86.8 10900.0
GR  87.8 13900.0   107.8 13902.0
X1295.46     29.   10305   10604     950     950     950
X3    10
GR 108.2  7096.0    88.2  7098.0    87.2 10098.0    85.6 10200.0    84.8 10305.0
GR  82.5 10313.0    69.8 10330.0    66.2 10339.0    63.2 10349.0    57.2 10360.0
GR  54.2 10369.0    53.3 10380.0    53.3 10391.0    52.4 10399.0    52.0 10451.0
GR  53.4 10459.0    52.1 10470.0    52.2 10500.0    51.3 10509.0    53.3 10531.0
GR  63.2 10569.0    81.9 10600.0    87.8 10604.0    87.8 10650.0    87.8 10698.0
GR  87.8 10750.0    87.8 10799.0    88.8 13799.0   108.8 13801.0
X1295.64     29.   10310   10610     950     950     950
X3    10
GR 106.9  7097.0    86.9  7099.0    85.9 10099.0    86.7 10150.0    85.9 10200.0
GR  88.7 10252.0    83.9 10310.0    64.6 10339.0    62.7 10350.0    62.7 10361.0
GR  60.9 10370.0    57.6 10380.0    57.8 10390.0    57.0 10395.0    55.9 10400.0
GR  52.7 10410.0    53.8 10420.0    52.6 10430.0    52.6 10440.0    51.8 10449.0
GR  51.4 10520.0    52.7 10530.0    57.1 10542.0    63.7 10569.0    64.8 10580.0
GR  84.7 10610.0    85.9 10799.0    86.9 13799.0   106.9 13801.0
X1295.82     28.   10274   10673     950     950     950
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X3    10
GR 108.3  7044.0    88.3  7046.0    87.3 10046.0    87.0 10147.0    87.0 10198.0
GR  87.4 10248.0    87.0 10274.0    82.4 10309.0    75.6 10323.0    70.4 10339.0
GR  66.9 10349.0    60.3 10368.0    59.0 10379.0    58.9 10448.0    58.1 10458.0
GR  58.1 10468.0    55.0 10498.0    51.0 10520.0    50.9 10580.0    53.7 10608.0
GR  64.3 10630.0    66.8 10639.0    72.2 10649.0    78.1 10668.0    88.0 10673.0
GR  88.0 10849.0    89.0 13849.0   109.0 13851.0
X1295.96     37.   10266   10593     739     739     739
X3    10
GR 107.0  7068.0    87.0  7070.0    86.0 10070.0    88.5 10148.0    86.0 10198.0
GR  86.0 10248.0    86.0 10266.0    83.7 10276.0    75.3 10285.0    59.6 10320.0
GR  57.2 10329.0    57.0 10341.0    55.9 10349.0    56.2 10380.0    55.0 10391.0
GR  53.3 10400.0    54.5 10408.0    53.3 10418.0    53.2 10428.0    52.2 10438.0
GR  52.4 10448.0    48.2 10459.0    47.2 10468.0    48.3 10478.0    48.3 10488.0
GR  49.2 10498.0    52.9 10508.0    55.0 10518.0    56.0 10527.0    58.3 10538.0
GR  65.6 10559.0    86.6 10593.0    86.8 10697.0    86.6 10748.0    86.6 10797.0
GR  87.6 13797.0   107.6 13799.0
X1296.30     36.   10234   10561    1795    1795    1795
X3    10
GR 110.1  7031.0    90.1  7033.0    89.1 10033.0    89.1 10150.0    89.1 10198.0
GR  89.1 10234.0    85.2 10240.0    76.2 10244.0    65.0 10259.0    66.1 10269.0
GR  55.0 10278.0    50.4 10288.0    49.2 10298.0    49.1 10318.0    50.2 10328.0
GR  50.3 10369.0    49.2 10378.0    50.1 10389.0    50.1 10398.0    52.2 10408.0
GR  53.0 10419.0    58.0 10438.0    59.1 10447.0    63.2 10469.0    66.1 10478.0
GR  68.2 10499.0    80.9 10541.0    82.3 10549.0    83.8 10561.0    84.5 10599.0
GR  86.1 10648.0    86.8 10700.0    86.5 10749.0    87.4 10798.0    88.4 13798.0
GR 108.4 13800.0
X1296.50     37.   10294   10695    1056    1056    1056
X3    10
GR 109.3  7097.0    89.3  7099.0    88.3 10099.0    88.3 10148.0    88.3 10250.0
GR  88.3 10294.0    83.8 10317.0    75.1 10333.0    74.3 10339.0    65.2 10369.0
GR  61.1 10379.0    56.9 10399.0    57.1 10439.0    55.9 10450.0    54.1 10460.0
GR  54.2 10469.0    52.9 10480.0    52.8 10499.0    55.2 10509.0    55.9 10521.0
GR  54.2 10539.0    56.1 10558.0    56.1 10568.0    57.1 10579.0    62.1 10585.0
GR  65.5 10602.0    68.3 10610.0    69.0 10619.0    75.9 10651.0    80.6 10682.0
GR  82.9 10687.0    88.5 10695.0    88.5 10751.0    88.5 10849.0    88.5 10898.0
GR  89.5 13898.0   109.5 13900.0
X1296.70     37.   10272   10629    1056    1056    1056
X3    10
GR 108.9  7069.0    88.9  7071.0    87.9 10071.0    87.9 10151.0    87.9 10199.0
GR  88.2 10249.0    87.9 10272.0    82.7 10276.0    79.7 10298.0    75.4 10315.0
GR  73.2 10319.0    67.2 10338.0    66.1 10349.0    66.3 10360.0    67.3 10369.0
GR  65.4 10377.0    62.1 10388.0    61.1 10398.0    61.2 10409.0    59.1 10429.0
GR  60.1 10438.0    60.2 10449.0    58.5 10468.0    54.4 10479.0    53.9 10518.0
GR  52.2 10538.0    55.4 10549.0    54.0 10559.0    54.1 10568.0    72.3 10609.0
GR  75.9 10619.0    89.6 10629.0    90.1 10697.0    89.6 10799.0    89.6 10847.0
GR  90.6 13847.0   110.6 13849.0
X1296.90     35.   10257   10608    1056    1056    1056
X3    10
GR 108.0  7057.0    88.0  7059.0    87.0 10059.0    89.0 10100.0    87.5 10198.0
GR  87.8 10249.0    87.0 10257.0    76.1 10260.0    71.4 10270.0    62.4 10298.0
GR  62.3 10308.0    59.3 10319.0    57.4 10329.0    57.0 10339.0    58.2 10348.0
GR  58.1 10370.0    59.4 10378.0    58.2 10389.0    58.4 10428.0    57.1 10438.0
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GR  57.4 10449.0    53.3 10460.0    51.2 10479.0    51.1 10489.0    53.2 10499.0
GR  62.3 10528.0    67.7 10549.0    75.7 10566.0    86.9 10598.0    89.1 10608.0
GR  89.1 10699.0    89.8 10750.0    89.1 10800.0    90.1 13800.0   110.1 13802.0
X1297.13     39.   10290   10631    1214    1214    1214
X3    10
GR 109.1  7086.0    89.1  7088.0    88.1 10088.0    88.1 10099.0    88.1 10149.0
GR  88.1 10203.0    88.1 10251.0    88.1 10290.0    87.3 10300.0    84.6 10315.0
GR  75.0 10342.0    72.9 10350.0    67.8 10360.0    60.7 10378.0    60.9 10389.0
GR  58.8 10398.0    57.8 10409.0    53.8 10429.0    52.7 10439.0    52.9 10449.0
GR  48.6 10470.0    44.8 10481.0    44.6 10509.0    46.9 10519.0    47.8 10528.0
GR  51.8 10549.0    50.7 10560.0    52.6 10570.0    53.4 10578.0    57.8 10589.0
GR  69.6 10599.0    75.3 10612.0    88.2 10631.0    88.2 10700.0    88.2 10750.0
GR  88.2 10800.0    88.2 10849.0    89.2 13849.0   109.2 13851.0
X1297.33     33.   10255   10558    1056    1056    1056
X3    10
GR 108.5  7046.0    88.5  7048.0    87.5 10048.0    86.6 10096.0    87.4 10248.0
GR  86.6 10255.0    83.5 10270.0    69.5 10289.0    67.2 10299.0    65.5 10309.0
GR  62.2 10318.0    61.3 10328.0    61.2 10339.0    56.4 10386.0    56.1 10397.0
GR  55.3 10408.0    51.0 10419.0    48.2 10429.0    46.1 10449.0    48.3 10458.0
GR  49.2 10467.0    47.1 10480.0    49.2 10488.0    49.0 10498.0    56.2 10519.0
GR  57.2 10528.0    62.9 10539.0    88.8 10558.0    89.5 10648.0    89.6 10697.0
GR  89.1 10797.0    90.1 13797.0   110.1 13799.0
X1297.51     31.   10279   10633     950     950     950
X3    10
GR 109.0  7075.0    89.0  7077.0    88.0 10077.0    88.0 10097.0    89.7 10149.0
GR  88.0 10199.0    89.6 10249.0    88.0 10279.0    83.7 10296.0    75.4 10311.0
GR  74.2 10319.0    61.3 10359.0    60.2 10369.0    60.1 10390.0    61.3 10399.0
GR  59.3 10419.0    59.4 10428.0    58.2 10439.0    58.3 10448.0    57.3 10460.0
GR  57.1 10519.0    54.4 10549.0    54.3 10559.0    58.3 10568.0    58.4 10578.0
GR  75.5 10616.0    90.7 10633.0    90.7 10648.0    90.7 10848.0    91.7 13848.0
GR 111.7 13850.0
X1297.68     34.   10280   10589     897     897     897
X3    10
GR 109.2  7068.0    89.2  7070.0    88.2 10070.0    89.8 10098.0    88.6 10151.0
GR  88.7 10199.0    87.8 10249.0    87.8 10280.0    86.3 10298.0    82.9 10305.0
GR  75.6 10317.0    60.1 10359.0    56.0 10380.0    56.0 10388.0    54.1 10408.0
GR  54.2 10417.0    53.0 10429.0    53.1 10437.0    50.1 10468.0    47.2 10480.0
GR  48.2 10489.0    48.1 10498.0    46.3 10509.0    50.2 10519.0    52.7 10532.0
GR  57.1 10548.0    81.3 10578.0    83.4 10583.0    90.5 10589.0    90.5 10647.0
GR  90.5 10747.0    90.5 10797.0    91.5 13797.0   111.5 13799.0
X1297.85     39.   10272   10685     897     897     897
X3    10
GR 110.9  7070.0    90.9  7072.0    89.9 10072.0    89.0 10099.0    89.0 10149.0
GR  90.8 10199.0    90.6 10249.0    89.0 10272.0    84.1 10294.0    80.8 10300.0
GR  75.4 10303.0    69.2 10319.0    66.2 10328.0    64.1 10348.0    62.2 10358.0
GR  64.2 10368.0    64.1 10378.0    60.2 10399.0    59.0 10409.0    60.1 10418.0
GR  60.2 10438.0    58.9 10449.0    59.0 10479.0    60.3 10488.0    60.3 10519.0
GR  61.1 10528.0    61.2 10548.0    59.9 10558.0    60.2 10589.0    61.2 10598.0
GR  61.0 10608.0    62.0 10618.0    64.0 10628.0    73.6 10649.0    84.1 10668.0
GR  88.5 10685.0    89.8 10847.0    90.8 13847.0   110.8 13849.0
X1298.02     34.   10315   10685     897     897     897
X3    10
GR 109.8  7106.0    89.8  7108.0    88.8 10108.0    91.1 10150.0    86.4 10200.0
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Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

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GR  88.4 10249.0    86.6 10296.0    86.4 10315.0    81.6 10335.0    75.7 10340.0
GR  67.2 10359.0    65.0 10369.0    61.3 10379.0    57.2 10397.0    56.9 10429.0
GR  55.2 10449.0    49.2 10479.0    47.1 10498.0    45.1 10510.0    42.3 10519.0
GR  42.1 10529.0    44.1 10549.0    48.5 10561.0    57.5 10579.0    69.8 10598.0
GR  73.9 10608.0    79.3 10648.0    80.5 10671.0    89.3 10685.0    90.0 10699.0
GR  89.3 10849.0    89.3 10898.0    90.3 13898.0   110.3 13900.0
X1298.46     30.   10296   10599    2322    2322    2322
X3    10
GR 110.2  7096.0    90.2  7098.0    89.2 10098.0    88.2 10296.0    66.9 10319.0
GR  57.9 10339.0    53.0 10349.0    53.1 10359.0    52.0 10369.0    52.2 10390.0
GR  51.1 10399.0    51.2 10410.0    50.3 10418.0    50.1 10430.0    51.3 10438.0
GR  51.1 10448.0    52.9 10458.0    56.3 10469.0    61.1 10519.0    63.1 10528.0
GR  64.1 10538.0    64.0 10549.0    67.9 10569.0    82.7 10599.0    85.4 10650.0
GR  90.3 10699.0    86.5 10748.0    86.2 10798.0    87.2 13798.0   107.2 13800.0
X1298.62     41.   10297   10699     844     844     844
X3    10
GR 110.9  7047.0    90.9  7049.0    89.9 10049.0    89.9 10176.0    89.9 10201.0
GR  90.3 10247.0    90.4 10296.0    89.9 10297.0    77.1 10310.0    75.4 10316.0
GR  64.8 10329.0    56.2 10349.0    53.2 10359.0    52.1 10370.0    52.1 10380.0
GR  51.0 10389.0    51.0 10420.0    55.1 10440.0    56.0 10450.0    55.9 10460.0
GR  57.0 10469.0    61.0 10490.0    66.1 10541.0    66.0 10550.0    67.2 10560.0
GR  67.0 10569.0    68.3 10580.0    67.9 10589.0    69.9 10609.0    70.1 10619.0
GR  72.2 10639.0    75.7 10659.0    78.9 10668.0    87.2 10698.0    87.1 10699.0
GR  89.6 10750.0    87.1 10798.0    90.3 10849.0    89.0 10900.0    90.0 13900.0
GR 110.0 13902.0
X1298.80     41.   10245   10648     950     950     950
X3    10
GR 111.4  7045.0    91.4  7047.0    90.4 10047.0    91.5 10154.0    89.3 10201.0
GR  88.9 10245.0    84.3 10256.0    75.9 10262.0    60.2 10300.0    55.7 10319.0
GR  50.2 10338.0    46.1 10359.0    45.1 10369.0    45.0 10378.0    46.1 10388.0
GR  46.2 10409.0    47.2 10418.0    49.1 10429.0    51.1 10450.0    51.1 10461.0
GR  51.9 10468.0    52.0 10480.0    53.2 10490.0    53.2 10499.0    54.0 10510.0
GR  57.1 10519.0    56.2 10530.0    56.1 10540.0    58.1 10549.0    59.0 10559.0
GR  64.2 10570.0    65.8 10579.0    75.1 10606.0    82.2 10617.0    90.6 10648.0
GR  90.6 10699.0    90.6 10750.0    91.1 10799.0    91.6 10849.0    92.6 13849.0
GR 112.6 13851.0
X1299.20     33.   10265   10609    2111    2111    2111
X3    10
GR 111.6  7047.0    91.6  7049.0    90.6 10049.0    90.7 10149.0    90.6 10198.0
GR  90.6 10265.0    88.9 10282.0    84.6 10301.0    75.5 10309.0    68.0 10327.0
GR  65.2 10339.0    61.2 10359.0    61.2 10370.0    58.1 10398.0    58.2 10419.0
GR  56.4 10429.0    54.4 10450.0    52.3 10458.0    50.3 10479.0    50.4 10498.0
GR  49.3 10510.0    50.3 10519.0    52.3 10529.0    53.0 10538.0    57.5 10549.0
GR  64.5 10569.0    75.1 10582.0    81.1 10587.0    83.3 10598.0    92.1 10609.0
GR  92.1 10807.0    93.1 13807.0   113.1 13809.0
X1299.60     39.   10303   10691    2112    2112    2112
X3    10
GR 111.6  7098.0    91.6  7100.0    90.6 10100.0    91.5 10149.0    89.3 10199.0
GR  89.8 10249.0    85.4 10303.0    78.5 10347.0    75.4 10350.0    73.8 10360.0
GR  71.0 10369.0    70.0 10378.0    67.9 10389.0    68.0 10409.0    66.0 10431.0
GR  66.2 10439.0    65.0 10451.0    65.2 10460.0    62.8 10479.0    63.1 10489.0
GR  59.1 10510.0    56.1 10519.0    55.3 10529.0    49.9 10550.0    48.9 10559.0
GR  49.0 10569.0    47.9 10580.0    47.9 10601.0    50.1 10610.0    51.2 10619.0
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GR  56.9 10649.0    66.1 10670.0    75.6 10675.0    78.1 10680.0    92.5 10691.0
GR  92.5 10700.0    92.5 10899.0    93.5 13899.0   113.5 13901.0
X1299.80     30.   10293   10711    1056    1056    1056
X3    10
GR 110.8  7147.0    90.8  7149.0    89.8 10149.0    93.5 10247.0    89.8 10293.0
GR  79.8 10308.0    75.3 10313.0    72.2 10319.0    68.5 10338.0    65.2 10348.0
GR  64.1 10358.0    64.2 10400.0    62.0 10420.0    62.3 10438.0    61.3 10450.0
GR  61.4 10577.0    60.3 10588.0    60.3 10600.0    61.5 10607.0    61.1 10628.0
GR  62.4 10638.0    65.1 10647.0    70.5 10659.0    75.6 10673.0    85.6 10682.0
GR  91.8 10711.0    92.6 10748.0    91.8 10836.0    92.8 13836.0   112.8 13838.0
X1300.00     31.   10292   10710    1056    1056    1056
X3    10
GR 113.7  7078.0    93.7  7080.0    92.7 10080.0    92.7 10100.0    92.7 10199.0
GR  92.7 10252.0    93.3 10279.0    92.7 10292.0    75.5 10315.0    70.1 10330.0
GR  68.1 10339.0    65.1 10350.0    63.1 10358.0    61.3 10378.0    55.2 10410.0
GR  56.3 10420.0    56.0 10450.0    59.2 10478.0    59.0 10491.0    61.8 10518.0
GR  61.9 10530.0    66.8 10579.0    73.1 10610.0    75.6 10625.0    78.3 10670.0
GR  81.2 10677.0    87.3 10697.0    88.9 10710.0    90.7 10898.0    91.7 13898.0
GR 111.7 13900.0
X1300.20     37.   10299   10751    1056    1056    1056
X3    10
GR 114.5  7098.0    94.5  7100.0    93.5 10100.0    93.5 10150.0    93.5 10199.0
GR  93.7 10249.0    93.5 10299.0    83.3 10347.0    74.8 10357.0    69.7 10370.0
GR  67.1 10379.0    62.9 10389.0    57.9 10409.0    57.0 10419.0    55.0 10430.0
GR  54.9 10449.0    57.0 10469.0    57.0 10520.0    58.9 10540.0    58.9 10580.0
GR  58.2 10589.0    59.1 10599.0    58.8 10609.0    61.0 10629.0    60.9 10640.0
GR  64.7 10679.0    67.1 10690.0    71.1 10700.0    75.3 10714.0    82.5 10727.0
GR  89.3 10751.0    91.7 10800.0    89.3 10852.0    89.3 10900.0    90.2 10950.0
GR  91.2 13950.0   111.2 13952.0
X1300.40     39.   10287   10718    1056    1056    1056
X3    10
GR 112.6  7087.0    92.6  7089.0    91.6 10089.0    91.8 10149.0    91.6 10200.0
GR  91.6 10248.0    91.6 10287.0    90.4 10298.0    75.4 10349.0    75.3 10356.0
GR  71.3 10369.0    69.3 10377.0    67.3 10400.0    67.1 10420.0    66.2 10428.0
GR  66.0 10449.0    65.1 10459.0    65.2 10479.0    64.0 10490.0    64.4 10499.0
GR  62.2 10519.0    60.0 10531.0    58.1 10539.0    57.0 10550.0    57.2 10559.0
GR  55.9 10569.0    58.1 10587.0    58.2 10600.0    56.1 10609.0    56.1 10639.0
GR  58.1 10651.0    72.2 10670.0    70.1 10681.0    71.5 10691.0    75.4 10700.0
GR  92.7 10718.0    92.7 10900.0    93.7 13900.0   113.7 13902.0
X1300.60     27.   10331   10706    1056    1056    1056
X3    10
GR 112.5  7125.0    92.5  7127.0    91.5 10127.0    91.2 10159.0    91.2 10197.0
GR  91.2 10298.0    91.2 10331.0    82.7 10349.0    75.6 10365.0    72.1 10378.0
GR  67.9 10419.0    65.0 10439.0    63.3 10449.0    58.3 10498.0    52.1 10520.0
GR  49.2 10548.0    49.1 10572.0    55.0 10629.0    58.0 10640.0    58.9 10649.0
GR  74.9 10681.0    92.6 10706.0    92.6 10799.0    92.6 10850.0    92.6 10899.0
GR  93.6 13899.0   113.6 13901.0
X1301.00     35.   10277   10644    2112    2112    2112
X3    10
GR 114.8  7070.0    94.8  7072.0    93.8 10072.0    94.7 10100.0    91.2 10148.0
GR  91.2 10198.0    92.7 10248.0    91.2 10277.0    75.8 10305.0    53.3 10329.0
GR  51.1 10340.0    51.2 10350.0    49.3 10360.0    47.2 10378.0    47.1 10389.0
GR  46.2 10398.0    46.2 10410.0    47.9 10429.0    52.1 10448.0    53.3 10460.0
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GR  55.3 10469.0    59.5 10509.0    59.2 10519.0    61.4 10529.0    64.3 10559.0
GR  68.3 10579.0    72.8 10590.0    75.6 10604.0    87.0 10644.0    88.7 10699.0
GR  89.0 10750.0    90.2 10798.0    89.2 10847.0    90.2 13847.0   110.2 13849.0
X1301.20     38. 10291.3 10797.1    1056    1056    1056
X3    10
GR 113.6  7096.9    93.6  7098.9    92.6 10098.9    92.6 10248.2    92.6 10291.3
GR  89.9 10298.0    84.8 10304.2    83.0 10309.3    69.2 10327.5    65.0 10349.7
GR  62.9 10368.8    62.8 10379.3    59.9 10387.9    59.8 10397.9    61.9 10408.2
GR  60.9 10420.3    61.8 10429.2    60.7 10439.2    60.7 10468.6    61.9 10478.6
GR  61.7 10499.0    63.0 10507.4    62.8 10579.2    64.8 10596.6    64.7 10618.0
GR  65.9 10628.0    66.0 10679.8    67.0 10687.7    66.8 10698.2    71.9 10747.8
GR  75.0 10758.1    84.9 10768.6    91.0 10768.7    91.4 10797.1    91.4 10899.5
GR  91.4 10997.1    92.4 13997.1   112.4 13999.1
X1301.38     37.   10305   10767     950     950     950
X3    10
GR 113.4  7303.0    93.4  7305.0    92.4 10305.0    87.0 10315.0    83.8 10318.0
GR  75.3 10321.0    71.2 10330.0    61.9 10349.0    60.1 10369.0    60.0 10390.0
GR  58.0 10400.0    58.0 10420.0    59.0 10430.0    58.1 10440.0    58.2 10450.0
GR  62.3 10470.0    62.2 10479.0    61.1 10490.0    61.3 10499.0    60.1 10510.0
GR  60.1 10589.0    59.2 10599.0    60.0 10608.0    60.0 10619.0    62.3 10629.0
GR  60.0 10648.0    59.9 10660.0    63.2 10669.0    68.8 10698.0    73.4 10710.0
GR  75.2 10717.0    93.4 10767.0    93.4 10849.0    93.4 10899.0    93.4 10947.0
GR  94.4 13947.0   114.4 13949.0
X1301.54     42.   10294   10712     844     844     844
X3    10
GR 114.0  7096.0    94.0  7098.0    93.0 10098.0    93.8 10197.0    93.0 10249.0
GR  93.0 10294.0    75.4 10325.0    69.8 10338.0    68.9 10349.0    55.0 10368.0
GR  52.0 10378.0    49.8 10389.0    48.8 10399.0    49.0 10409.0    50.0 10419.0
GR  52.0 10429.0    49.9 10439.0    52.8 10449.0    55.1 10460.0    54.9 10470.0
GR  56.0 10478.0    55.9 10489.0    57.0 10499.0    56.8 10519.0    58.0 10529.0
GR  57.7 10549.0    60.1 10569.0    60.2 10609.0    59.1 10618.0    60.1 10628.0
GR  59.9 10639.0    61.8 10650.0    62.9 10658.0    75.0 10690.0    83.8 10700.0
GR  87.3 10712.0    87.3 10750.0    92.9 10798.0    90.5 10849.0    92.1 10897.0
GR  93.1 13897.0   113.1 13899.0
X1301.72     41.   10323   10796     950     950     950
X3    10
GR 115.0  7121.0    95.0  7123.0    94.0 10123.0    91.5 10147.0    91.5 10249.0
GR  91.5 10323.0    87.1 10329.0    81.5 10347.0    74.5 10357.0    65.1 10368.0
GR  60.0 10378.0    56.8 10389.0    56.0 10399.0    54.0 10408.0    54.0 10419.0
GR  53.0 10428.0    52.9 10437.0    53.9 10447.0    53.9 10468.0    55.8 10487.0
GR  56.0 10499.0    54.9 10509.0    55.0 10518.0    56.8 10539.0    56.8 10548.0
GR  57.9 10558.0    57.9 10598.0    58.7 10608.0    58.7 10638.0    59.7 10648.0
GR  59.8 10658.0    63.9 10698.0    66.8 10709.0    67.6 10717.0    80.3 10749.0
GR  88.1 10796.0    90.0 10848.0    93.0 10901.0    92.6 10948.0    93.6 13948.0
GR 113.6 13950.0
X1301.90     43.   10245   10745     950     950     950
X3    10
GR 115.0  7048.0    95.0  7050.0    94.0 10050.0    94.5 10146.0    92.4 10199.0
GR  86.2 10245.0    81.1 10249.0    79.7 10258.0    66.0 10270.0    63.2 10279.0
GR  61.2 10290.0    59.0 10309.0    59.0 10320.0    58.2 10329.0    56.0 10340.0
GR  57.4 10349.0    56.9 10380.0    58.1 10390.0    58.1 10400.0    59.2 10410.0
GR  59.1 10421.0    61.3 10440.0    61.1 10450.0    62.1 10459.0    62.0 10479.0
GR  63.2 10490.0    63.1 10500.0    64.3 10509.0    64.0 10529.0    66.3 10550.0
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GR  66.1 10570.0    67.3 10579.0    67.2 10639.0    68.1 10649.0    68.0 10660.0
GR  70.1 10679.0    78.3 10703.0    95.9 10745.0    95.9 10750.0    95.9 10798.0
GR  95.9 10898.0    96.9 13898.0   116.9 13900.0
X1302.10     35.   10276   10702    1056    1056    1056
X3    10
GR 115.5  7072.0    95.5  7074.0    94.5 10074.0    94.5 10276.0    79.3 10293.0
GR  65.4 10328.0    63.4 10338.0    62.3 10348.0    56.2 10368.0    56.2 10379.0
GR  54.2 10389.0    54.2 10399.0    53.3 10409.0    50.2 10418.0    45.2 10429.0
GR  44.2 10438.0    41.1 10448.0    39.2 10457.0    39.0 10478.0    40.1 10489.0
GR  41.9 10498.0    43.2 10509.0    47.1 10519.0    49.0 10539.0    50.9 10548.0
GR  56.0 10598.0    57.9 10608.0    73.5 10639.0    80.0 10674.0    92.5 10702.0
GR  92.8 10798.0    92.5 10849.0    92.5 10897.0    93.5 13897.0   113.5 13899.0
X1302.44     34.   10272   10747    1794    1794    1794
X3    10
GR 108.9  7067.0    88.9  7069.0    87.9 10069.0    86.8 10149.0    89.4 10199.0
GR  89.8 10250.0    86.8 10272.0    75.2 10292.0    72.9 10299.0    72.0 10310.0
GR  67.5 10320.0    65.0 10328.0    63.0 10348.0    61.0 10358.0    59.0 10379.0
GR  58.9 10388.0    58.2 10400.0    58.1 10419.0    57.2 10428.0    57.1 10507.0
GR  56.1 10518.0    56.0 10569.0    58.0 10588.0    58.4 10629.0    61.9 10667.0
GR  66.0 10689.0    74.3 10715.0    79.7 10728.0    81.8 10734.0    95.9 10747.0
GR  95.9 10898.0    95.9 10948.0    96.9 13948.0   116.9 13950.0
X1302.50     37.   10269   10698     316     316     316
X3    10
GR 109.5  7067.0    89.5  7069.0    88.5 10069.0    85.7 10101.0    84.3 10149.0
GR  86.6 10198.0    86.0 10249.0    84.0 10269.0    76.8 10280.0    64.4 10318.0
GR  60.8 10340.0    55.0 10397.0    54.8 10408.0    53.9 10419.0    54.0 10428.0
GR  52.9 10439.0    53.0 10448.0    51.6 10460.0    51.9 10470.0    49.7 10488.0
GR  50.1 10498.0    48.8 10508.0    48.7 10539.0    50.6 10547.0    51.8 10559.0
GR  52.0 10570.0    53.7 10588.0    60.7 10609.0    64.4 10647.0    69.4 10658.0
GR  80.2 10688.0    94.2 10698.0    96.7 10750.0    95.2 10799.0    94.2 10898.0
GR  95.2 13898.0   115.2 13900.0
X1302.68     41.   10270   10668     950     950     950
X3    10
GR 108.6  7069.0    88.6  7071.0    87.6 10071.0    87.6 10101.0    89.7 10151.0
GR  87.6 10199.0    87.6 10270.0    72.2 10309.0    68.1 10329.0    59.8 10350.0
GR  57.2 10359.0    52.8 10370.0    49.9 10379.0    47.1 10409.0    46.9 10419.0
GR  45.0 10438.0    44.9 10448.0    42.9 10467.0    42.8 10478.0    41.8 10487.0
GR  41.8 10498.0    40.8 10508.0    42.8 10518.0    41.8 10528.0    45.7 10538.0
GR  46.6 10548.0    48.6 10558.0    53.5 10567.0    53.5 10577.0    54.7 10588.0
GR  58.5 10607.0    61.5 10618.0    65.9 10628.0    74.8 10641.0    76.6 10649.0
GR  94.4 10668.0    94.4 10751.0    96.4 10797.0    96.1 10847.0    97.1 13847.0
GR 117.1 13849.0
X1302.86     38.   10343   10823     950     950     950
X3    10
GR 111.3  7146.0    91.3  7148.0    90.3 10148.0    90.3 10199.0    90.3 10249.0
GR  90.7 10299.0    90.3 10343.0    86.9 10348.0    84.3 10368.0    82.9 10396.0
GR  74.8 10404.0    69.9 10419.0    61.9 10439.0    60.1 10449.0    57.0 10459.0
GR  52.1 10480.0    45.1 10548.0    45.3 10559.0    43.9 10568.0    44.2 10580.0
GR  41.2 10609.0    40.8 10630.0    42.7 10639.0    46.5 10651.0    50.4 10662.0
GR  55.8 10669.0    59.0 10680.0    62.8 10699.0    65.8 10708.0    73.7 10750.0
GR  80.2 10804.0    96.1 10823.0    96.7 10849.0    96.1 10898.0    96.1 10998.0
GR  96.1 11048.0    97.1 14048.0   117.1 14050.0
X1303.02     36.   10252   10673     844     844     844
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X3    10
GR 110.8  7051.0    90.8  7053.0    89.8 10053.0    91.6 10100.0    93.7 10149.0
GR  87.0 10252.0    80.4 10278.0    75.3 10287.0    65.6 10319.0    61.1 10330.0
GR  55.0 10349.0    54.2 10360.0    54.1 10370.0    53.2 10378.0    53.1 10409.0
GR  51.1 10428.0    51.2 10439.0    50.2 10448.0    50.0 10461.0    48.2 10469.0
GR  47.0 10481.0    47.1 10502.0    48.2 10509.0    47.1 10519.0    45.2 10529.0
GR  44.3 10538.0    44.3 10550.0    66.0 10612.0    68.2 10620.0    70.1 10629.0
GR  90.8 10673.0    90.8 10699.0    90.8 10748.0    90.8 10847.0    91.8 13847.0
GR 111.8 13849.0
X1303.20     44.   10273   10707     950     950     950
X3    10
GR 113.5  7070.0    93.5  7072.0    92.5 10072.0    93.0 10098.0    92.5 10150.0
GR  92.5 10200.0    92.5 10247.0    92.5 10273.0    83.0 10289.0    74.9 10296.0
GR  67.1 10319.0    62.8 10329.0    59.8 10338.0    47.8 10379.0    47.6 10399.0
GR  46.6 10410.0    46.9 10419.0    45.6 10429.0    45.9 10439.0    43.6 10458.0
GR  43.8 10469.0    41.8 10487.0    41.8 10500.0    42.8 10507.0    42.8 10520.0
GR  44.0 10529.0    48.4 10552.0    48.9 10558.0    51.1 10569.0    50.5 10578.0
GR  51.6 10589.0    53.6 10598.0    54.8 10608.0    54.9 10618.0    56.8 10628.0
GR  60.7 10639.0    62.8 10648.0    75.2 10679.0    77.3 10691.0    88.3 10707.0
GR  90.0 10718.0    88.3 10848.0    89.3 13848.0   109.3 13850.0
X1303.60     35. 10276.7 10690.8    2112    2112    2112
X3    10
GR 114.4  7079.0    94.4  7081.0    93.4 10081.0    93.4 10276.7    78.4 10276.8
GR  74.7 10307.8    68.3 10317.9    65.1 10327.1    63.4 10338.2    60.3 10348.0
GR  58.2 10358.6    57.2 10367.7    57.2 10429.0    55.2 10449.1    55.3 10459.1
GR  54.3 10469.6    54.2 10479.6    53.2 10488.7    55.3 10507.4    54.9 10529.8
GR  56.5 10538.2    55.9 10547.7    57.2 10557.5    57.2 10568.0    61.4 10607.0
GR  67.0 10635.9    75.2 10659.0    77.8 10670.7    87.1 10690.8    87.2 10699.8
GR  87.1 10797.2    87.2 10848.3    88.9 10896.9    89.9 13896.9   109.9 13898.9
X1303.80     45. 10264.3 10707.4    1056    1056    1056
X3    10
GR 113.5  7055.0    93.5  7057.0    92.5 10057.0    92.5 10148.6    92.5 10247.4
GR  92.5 10264.3    92.6 10264.4    78.6 10275.2    64.9 10299.0    63.1 10309.1
GR  54.3 10328.4    45.1 10359.2    43.0 10366.9    43.1 10379.4    42.2 10388.4
GR  39.4 10399.7    40.0 10408.6    42.0 10418.3    43.1 10428.2    44.9 10438.0
GR  49.2 10448.0    48.9 10458.5    49.9 10467.4    52.0 10478.1    57.3 10528.9
GR  57.0 10537.9    58.0 10549.3    58.1 10559.2    59.8 10568.0    62.0 10588.2
GR  64.3 10599.0    65.1 10608.4    67.1 10617.6    68.1 10629.5    70.0 10636.8
GR  83.2 10676.3    87.9 10691.8    90.8 10707.4    91.0 10728.3    90.8 10749.2
GR  90.8 10771.8    91.4 10848.4    91.6 10898.2    92.6 13898.2   112.6 13900.2
X1304.00     42.   10279   10680    1056    1056    1056
X3    10
GR 110.4  7065.0    90.4  7067.0    89.4 10067.0    90.3 10247.0    89.0 10279.0
GR  81.1 10294.0    70.1 10309.0    64.8 10319.0    61.7 10328.0    59.9 10338.0
GR  55.7 10349.0    53.8 10358.0    49.2 10366.0    46.8 10378.0    45.0 10399.0
GR  42.9 10409.0    41.2 10427.0    39.1 10439.0    38.0 10448.0    39.2 10458.0
GR  39.0 10478.0    41.9 10488.0    47.9 10518.0    48.8 10527.0    51.0 10539.0
GR  52.1 10548.0    54.3 10558.0    55.2 10569.0    57.3 10579.0    60.2 10589.0
GR  61.0 10599.0    75.1 10634.0    76.9 10643.0    77.2 10648.0    82.7 10662.0
GR  87.1 10680.0    87.1 10698.0    87.1 10799.0    91.3 10804.0    92.9 10848.0
GR  93.9 13848.0   113.9 13850.0
X1304.60     36.   10289   10654    3168    3168    3168
X3    10
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GR 108.7  7087.0    88.7  7089.0    87.7 10089.0    87.7 10149.0    88.0 10199.0
GR  88.7 10250.0    87.7 10289.0    86.1 10300.0    84.2 10304.0    75.0 10320.0
GR  73.2 10328.0    59.2 10359.0    56.3 10369.0    54.4 10378.0    53.3 10389.0
GR  53.0 10419.0    52.2 10429.0    52.1 10449.0    51.3 10457.0    51.0 10479.0
GR  50.1 10489.0    50.2 10498.0    52.0 10517.0    52.1 10559.0    53.3 10569.0
GR  55.1 10579.0    63.2 10598.0    66.2 10608.0    81.8 10640.0    95.6 10654.0
GR  95.6 10698.0    95.6 10748.0    95.6 10796.0    95.6 10847.0    96.6 13847.0
GR 116.6 13849.0
X1304.80     37.   10243   10644    1056    1056    1056
X3    10
GR 112.8  7046.0    92.8  7048.0    91.8 10048.0    91.8 10149.0    91.8 10200.0
GR  91.8 10243.0    86.8 10249.0    83.0 10264.0    75.0 10271.0    69.1 10290.0
GR  63.9 10300.0    61.0 10310.0    58.8 10330.0    56.0 10340.0    55.9 10350.0
GR  51.8 10361.0    51.9 10380.0    49.8 10399.0    50.8 10410.0    51.1 10441.0
GR  52.0 10451.0    52.0 10470.0    52.9 10480.0    55.0 10490.0    55.1 10510.0
GR  56.0 10520.0    56.0 10530.0    57.0 10540.0    61.1 10560.0    62.0 10570.0
GR  87.9 10615.0    96.1 10644.0    96.1 10699.0    96.1 10749.0    96.1 10799.0
GR  97.1 13799.0   117.1 13801.0
X1305.00     30. 10274.4 10669.9    1056    1056    1056
X3    10
GR 113.3  7198.6    93.3  7200.6    92.3 10200.6    90.1 10274.4    84.7 10285.6
GR  82.9 10299.1    63.0 10349.7    57.0 10359.4    55.3 10368.4    54.1 10379.0
GR  54.2 10398.9    55.3 10409.3    50.1 10430.0    51.1 10438.9    47.2 10450.0
GR  47.1 10469.5    52.1 10518.6    52.1 10530.1    53.3 10540.5    53.2 10560.4
GR  56.0 10589.3    71.3 10629.6    75.3 10644.4    82.0 10649.6    86.1 10669.9
GR  86.1 10699.8    90.0 10849.7    89.8 10850.2    90.8 13850.2   110.8 13852.2
X1305.21     33.   10304   10615    1108    1108    1108
X3    10
GR 111.2  7098.0    91.2  7100.0    90.2 10100.0    85.0 10149.0    85.7 10200.0
GR  89.2 10271.0    82.3 10300.0    82.1 10304.0    66.8 10330.0    64.8 10340.0
GR  53.8 10370.0    52.9 10380.0    47.0 10400.0    45.0 10419.0    45.0 10480.0
GR  50.9 10500.0    56.0 10510.0    54.9 10520.0    51.0 10529.0    52.0 10540.0
GR  52.0 10560.0    53.1 10569.0    60.8 10589.0    81.7 10609.0    83.4 10615.0
GR  85.0 10649.0    87.8 10674.0   103.0 10698.0   108.1 10714.0   105.9 10775.0
GR  87.6 10799.0    88.6 13799.0   108.6 13801.0
X1305.38     29.   10303   10649     897     897     897
X3    10
GR 110.3  7098.0    90.3  7100.0    89.3 10100.0    89.3 10199.0    89.3 10250.0
GR  89.3 10303.0    68.0 10339.0    56.2 10378.0    54.0 10388.0    53.0 10399.0
GR  48.9 10410.0    44.7 10430.0    41.5 10442.0    39.7 10451.0    38.9 10461.0
GR  38.9 10501.0    41.5 10519.0    41.3 10531.0    39.3 10539.0    43.3 10580.0
GR  55.2 10606.0    71.1 10641.0    74.2 10649.0    79.5 10699.0    83.4 10783.0
GR  84.7 10847.0    88.7 10898.0    89.7 13898.0   109.7 13900.0
X1305.54     30. 10341.1 10669.9     844     844     844
X3    10
GR 110.0  7137.9    90.0  7139.9    89.0 10139.9    89.0 10150.8    89.0 10200.6
GR  89.0 10251.1    89.0 10341.1    85.9 10350.7    85.1 10356.2    75.3 10371.3
GR  66.3 10390.9    63.0 10399.9    60.2 10430.4    59.9 10440.4    57.1 10470.3
GR  57.0 10482.3    56.1 10489.8    56.2 10501.7    55.3 10510.2    55.3 10521.2
GR  56.3 10530.1    56.1 10610.8    60.4 10620.2    72.5 10630.4    75.4 10646.3
GR  80.6 10660.2    91.1 10669.9    91.1 10850.0    92.1 13850.0   112.1 13852.0
X1305.74     38.   10314   10652    1056    1056    1056
X3    10
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GR 110.7  7111.0    90.7  7113.0    89.7 10113.0    87.8 10149.0    89.7 10197.0
GR  88.5 10251.0    87.8 10299.0    87.8 10314.0    83.4 10333.0    75.0 10352.0
GR  70.0 10359.0    67.1 10368.0    64.7 10390.0    65.2 10398.0    64.0 10410.0
GR  64.0 10421.0    62.0 10428.0    60.1 10449.0    60.1 10459.0    59.2 10468.0
GR  59.2 10497.0    57.1 10519.0    57.5 10529.0    56.2 10539.0    56.3 10557.0
GR  54.9 10568.0    55.1 10579.0    56.1 10588.0    58.0 10598.0    63.2 10609.0
GR  69.1 10625.0    78.5 10643.0    90.1 10652.0    90.1 10748.0    90.1 10799.0
GR  90.1 10850.0    91.1 13850.0   111.1 13852.0
X1305.92     35.   10380   10730     950     950     950
X3    10
GR 110.8  7175.0    90.8  7177.0    89.8 10177.0    89.8 10198.0    89.8 10248.0
GR  90.2 10297.0    92.1 10348.0    89.8 10380.0    85.4 10397.0    81.6 10404.0
GR  75.4 10422.0    73.3 10437.0    63.7 10459.0    61.0 10467.0    59.9 10477.0
GR  56.7 10487.0    55.0 10509.0    52.7 10517.0    49.9 10549.0    50.0 10579.0
GR  51.9 10597.0    52.2 10609.0    54.2 10618.0    55.0 10628.0    57.0 10638.0
GR  60.0 10666.0    63.9 10677.0    81.3 10698.0    90.3 10730.0    90.3 10797.0
GR  90.3 10848.0    90.3 10898.0    90.3 10945.0    91.3 13945.0   111.3 13947.0
X1306.08     37.   10298   10640     844     844     844
X3    10
GR 113.2  7098.0    93.2  7100.0    92.2 10100.0    92.2 10151.0    92.2 10199.0
GR  92.2 10250.0    92.2 10298.0    88.6 10303.0    82.6 10334.0    70.3 10359.0
GR  68.0 10368.0    62.2 10389.0    57.1 10399.0    57.3 10410.0    58.3 10419.0
GR  58.2 10451.0    55.3 10459.0    55.2 10470.0    54.3 10479.0    54.1 10521.0
GR  55.4 10529.0    55.1 10550.0    56.1 10559.0    56.3 10570.0    55.1 10579.0
GR  57.4 10589.0    60.7 10599.0    66.5 10609.0    75.4 10629.0    85.6 10636.0
GR  86.5 10640.0    86.5 10650.0    90.2 10701.0    91.0 10749.0    90.6 10849.0
GR  91.6 13849.0   111.6 13851.0
X1306.26     42.   10321   10684     950     950     950
X3    10
GR 111.6  7108.0    91.6  7110.0    90.6 10110.0    89.3 10150.0    92.1 10199.0
GR  91.8 10249.0    88.9 10299.0    86.7 10321.0    83.3 10331.0    76.8 10341.0
GR  75.0 10351.0    69.8 10360.0    66.9 10371.0    63.1 10389.0    63.2 10399.0
GR  60.8 10419.0    60.8 10428.0    59.6 10439.0    57.8 10449.0    54.8 10460.0
GR  55.9 10471.0    54.9 10480.0    55.0 10511.0    57.8 10541.0    58.1 10551.0
GR  59.0 10561.0    58.9 10580.0    60.0 10590.0    60.1 10611.0    62.0 10619.0
GR  69.7 10641.0    71.9 10650.0    75.3 10660.0    79.4 10670.0    90.4 10684.0
GR  90.4 10701.0    90.4 10752.0    90.4 10801.0    90.4 10850.0    90.4 10900.0
GR  91.4 13900.0   111.4 13902.0
X1306.30     36.   10393   10769     211     211     211
X3    10
GR 112.6  7196.0    92.6  7198.0    91.6 10198.0    91.6 10246.0    91.6 10297.0
GR  91.6 10348.0    91.6 10393.0    90.7 10397.0    82.4 10422.0    75.6 10435.0
GR  72.7 10449.0    67.3 10459.0    65.3 10479.0    65.2 10509.0    63.9 10518.0
GR  63.1 10528.0    61.2 10539.0    59.2 10559.0    53.4 10588.0    52.1 10601.0
GR  52.5 10629.0    51.5 10639.0    51.4 10650.0    52.5 10659.0    58.6 10689.0
GR  57.8 10699.0    63.8 10719.0    74.8 10738.0    76.2 10750.0    80.1 10762.0
GR  91.4 10769.0    91.7 10854.0    91.4 10898.0    91.4 10997.0    92.4 13997.0
GR 112.4 13999.0
X1306.48     35.   10277   10643     950     950     950
X3    10
GR 110.8  7075.0    90.8  7077.0    89.8 10077.0    89.8 10098.0    92.2 10148.0
GR  91.5 10198.0    89.8 10248.0    89.8 10277.0    81.9 10295.0    75.6 10308.0
GR  73.0 10318.0    70.3 10349.0    70.2 10360.0    68.3 10378.0    68.2 10389.0
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GR  67.2 10399.0    65.2 10409.0    64.9 10420.0    63.2 10439.0    63.3 10448.0
GR  62.1 10460.0    62.2 10469.0    61.2 10479.0    61.4 10510.0    60.4 10518.0
GR  60.5 10589.0    62.6 10609.0    67.2 10618.0    75.8 10626.0    80.4 10635.0
GR  92.9 10643.0    92.9 10697.0    92.9 10849.0    93.9 13849.0   113.9 13851.0
X1306.64     39.   10299   10649     844     844     844
X3    10
GR 109.4  7050.0    89.4  7052.0    88.4 10052.0    90.8 10105.0    91.8 10149.0
GR  90.3 10199.0    87.6 10246.0    87.6 10299.0    82.1 10322.0    74.8 10340.0
GR  69.8 10349.0    63.1 10369.0    61.1 10379.0    60.9 10388.0    57.8 10395.0
GR  55.7 10399.0    52.8 10409.0    49.8 10438.0    44.0 10469.0    43.8 10480.0
GR  44.9 10488.0    44.8 10500.0    46.9 10509.0    48.1 10518.0    47.8 10529.0
GR  48.9 10539.0    54.7 10549.0    56.9 10559.0    58.0 10570.0    60.0 10579.0
GR  59.7 10589.0    64.0 10600.0    66.0 10609.0    91.7 10649.0    92.5 10699.0
GR  91.7 10748.0    91.7 10845.0    92.7 13845.0   112.7 13847.0
X1306.98     35.   10365   10728    1794    1794    1794
X3    10
GR 114.5  7295.0    94.5  7297.0    93.5 10297.0    93.5 10365.0    78.5 10377.0
GR  75.5 10385.0    70.1 10388.0    63.6 10401.0    59.9 10411.0    58.1 10420.0
GR  58.1 10430.0    57.0 10440.0    57.2 10450.0    56.1 10460.0    54.3 10470.0
GR  54.2 10481.0    52.1 10491.0    54.1 10510.0    54.1 10521.0    57.2 10550.0
GR  60.2 10561.0    60.1 10580.0    61.4 10590.0    61.1 10610.0    63.0 10621.0
GR  66.7 10658.0    75.5 10690.0    76.3 10699.0    78.7 10707.0    83.0 10728.0
GR  85.9 10800.0    92.1 10850.0    91.8 10898.0    92.8 13898.0   112.8 13900.0
X1307.20     32.   10309   10670    1161    1161    1161
X3    10
GR 115.7  7105.0    95.7  7107.0    94.7 10107.0    94.7 10309.0    88.4 10313.0
GR  77.7 10343.0    69.5 10362.0    57.2 10389.0    55.2 10399.0    51.3 10408.0
GR  50.0 10419.0    49.9 10429.0    46.0 10468.0    45.9 10478.0    44.8 10490.0
GR  44.8 10519.0    44.0 10529.0    43.8 10539.0    47.0 10549.0    51.1 10569.0
GR  52.1 10580.0    54.0 10589.0    60.7 10606.0    72.8 10634.0    91.6 10670.0
GR  91.6 10700.0    91.7 10750.0    91.6 10799.0    92.8 10848.0    92.6 10898.0
GR  93.6 13898.0   113.6 13900.0
X1307.43     32.   10288   10636    1214    1214    1214
X3    10
GR 114.4  7082.0    94.4  7084.0    93.4 10084.0    95.4 10200.0    94.9 10251.0
GR  91.0 10288.0    83.7 10304.0    75.0 10311.0    67.1 10330.0    59.6 10349.0
GR  57.3 10359.0    52.3 10370.0    53.2 10379.0    53.0 10391.0    54.2 10400.0
GR  53.9 10470.0    54.9 10479.0    55.0 10499.0    57.1 10520.0    58.7 10530.0
GR  60.8 10549.0    68.9 10571.0    77.9 10601.0    78.7 10605.0    88.6 10618.0
GR  93.1 10636.0    93.1 10650.0    93.1 10702.0    93.1 10750.0    93.1 10847.0
GR  94.1 13847.0   114.1 13849.0
X1307.98     31.   10357   10726    2903    2903    2903
X3    10
GR 115.5  7146.0    95.5  7148.0    94.5 10148.0    94.5 10198.0    94.5 10300.0
GR  94.7 10349.0    94.5 10357.0    80.5 10368.0    70.2 10389.0    64.0 10409.0
GR  62.0 10418.0    57.3 10468.0    53.2 10488.0    53.0 10499.0    51.1 10519.0
GR  51.1 10548.0    51.9 10558.0    52.0 10570.0    55.1 10598.0    55.0 10609.0
GR  56.6 10629.0    59.9 10639.0    60.9 10648.0    81.4 10698.0    87.4 10726.0
GR  92.0 10773.0    92.3 10799.0    90.1 10849.0    91.7 10896.0    92.7 13896.0
GR 112.7 13898.0
X1308.16     33.   10286   10684     950     950     950
X3    10
GR 113.7  7088.0    93.7  7090.0    92.7 10090.0    93.4 10100.0    86.9 10200.0
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GR  86.9 10249.0    86.9 10286.0    75.5 10309.0    74.1 10320.0    61.0 10340.0
GR  57.1 10348.0    53.1 10367.0    52.7 10380.0    55.1 10389.0    54.7 10401.0
GR  57.1 10418.0    57.1 10438.0    55.8 10450.0    55.9 10470.0    53.9 10490.0
GR  55.1 10500.0    55.1 10520.0    57.1 10538.0    57.1 10548.0    58.2 10558.0
GR  56.9 10569.0    57.9 10578.0    82.6 10649.0    85.4 10668.0    95.6 10684.0
GR  95.6 10898.0    96.6 13898.0   116.6 13900.0
X1308.34     39.   10337   10706     950     950     950
X3    10
GR 114.4  7109.0    94.4  7111.0    93.4 10111.0    93.4 10150.0    93.6 10298.0
GR  93.4 10337.0    83.2 10347.0    75.5 10356.0    70.3 10368.0    67.2 10379.0
GR  65.2 10388.0    64.2 10398.0    65.1 10409.0    65.0 10419.0    63.3 10439.0
GR  63.5 10448.0    62.3 10458.0    62.2 10468.0    60.2 10490.0    60.2 10499.0
GR  59.3 10509.0    59.3 10520.0    57.4 10529.0    57.3 10549.0    56.3 10559.0
GR  56.2 10569.0    59.3 10578.0    59.3 10599.0    58.3 10608.0    60.4 10629.0
GR  60.2 10650.0    61.2 10659.0    64.2 10667.0    76.1 10687.0    94.6 10706.0
GR  95.2 10847.0    94.6 10898.0    95.6 13898.0   115.6 13900.0
X1308.52     36.   10328   10689     950     950     950
X3    10
GR 110.5  7125.0    90.5  7127.0    89.5 10127.0    91.4 10150.0    89.5 10201.0
GR  89.7 10251.0    86.7 10298.0    86.7 10328.0    81.4 10358.0    75.1 10375.0
GR  72.2 10389.0    65.6 10398.0    63.0 10409.0    58.9 10420.0    55.8 10448.0
GR  54.2 10458.0    53.2 10467.0    51.1 10478.0    49.0 10499.0    48.9 10509.0
GR  50.2 10518.0    50.0 10550.0    51.2 10557.0    50.9 10580.0    55.7 10601.0
GR  61.4 10620.0    62.0 10628.0    67.9 10639.0    72.0 10649.0    75.7 10660.0
GR  95.2 10689.0    95.2 10798.0    95.2 10845.0    95.2 10897.0    96.2 13897.0
GR 116.2 13899.0
X1308.70     32.   10358   10723     950     950     950
X3    10
GR 114.6  7112.0    94.6  7114.0    93.6 10114.0    93.6 10197.0    93.6 10252.0
GR  93.6 10297.0    94.3 10313.0    96.2 10348.0    93.6 10358.0    75.3 10370.0
GR  68.2 10388.0    64.7 10399.0    60.1 10448.0    59.9 10459.0    57.2 10488.0
GR  52.9 10510.0    53.2 10532.0    56.1 10558.0    55.9 10569.0    57.4 10578.0
GR  57.0 10619.0    58.2 10629.0    58.0 10639.0    60.3 10660.0    70.1 10678.0
GR  72.2 10690.0    81.9 10711.0    96.5 10723.0    96.5 10748.0    96.5 10947.0
GR  97.5 13947.0   117.5 13949.0
X1308.98     31.   10318   10687    1478    1478    1478
X3    10
GR 112.6  7120.0    92.6  7122.0    91.6 10122.0    92.3 10153.0    96.1 10256.0
GR  86.0 10301.0    86.0 10318.0    65.0 10361.0    60.8 10381.0    58.9 10399.0
GR  60.3 10410.0    59.8 10471.0    58.7 10479.0    59.1 10501.0    56.9 10519.0
GR  56.9 10531.0    57.9 10538.0    58.2 10569.0    57.1 10579.0    57.1 10602.0
GR  60.1 10620.0    65.2 10641.0    71.0 10649.0    81.2 10678.0    90.9 10687.0
GR  91.4 10699.0    90.9 10749.0    90.9 10799.0    90.9 10848.0    91.9 13848.0
GR 111.9 13850.0
X1309.18     34.   10316   10693    1056    1056    1056
X3    10
GR 114.3  7099.0    94.3  7101.0    93.3 10101.0    92.2 10196.0    93.8 10248.0
GR  88.1 10297.0    88.1 10316.0    81.8 10327.0    55.0 10369.0    51.8 10378.0
GR  44.9 10390.0    44.1 10400.0    43.8 10429.0    46.0 10451.0    50.2 10471.0
GR  52.1 10487.0    52.2 10499.0    54.1 10509.0    55.1 10518.0    54.8 10530.0
GR  57.0 10548.0    56.9 10569.0    60.2 10578.0    61.1 10588.0    60.9 10598.0
GR  62.1 10608.0    65.8 10627.0    75.1 10654.0    82.9 10668.0    90.7 10693.0
GR  90.7 10796.0    94.1 10896.0    95.1 13896.0   115.1 13898.0
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Subsegment 080101
Originated: January 31, 2002
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X1309.36     32.   10288   10673     950     950     950
X3    10
GR 113.1  7086.0    93.1  7088.0    92.1 10088.0    92.1 10097.0    92.1 10155.0
GR  92.1 10196.0    92.1 10288.0    78.4 10302.0    64.8 10330.0    62.1 10340.0
GR  61.4 10349.0    55.4 10368.0    55.3 10399.0    53.3 10418.0    53.4 10431.0
GR  50.1 10459.0    50.3 10471.0    48.3 10490.0    48.4 10501.0    52.0 10520.0
GR  55.6 10531.0    57.4 10540.0    58.2 10550.0    60.1 10560.0    62.3 10581.0
GR  68.3 10611.0    91.0 10673.0    92.3 10699.0    91.0 10798.0    91.0 10850.0
GR  92.0 13850.0   112.0 13852.0
X1309.54     39.   10328   10934     950     950     950
X3    10
GR 116.9  7126.0    96.9  7128.0    95.9 10128.0    95.9 10247.0    95.9 10297.0
GR  95.9 10328.0    91.0 10346.0    79.0 10423.0    75.7 10452.0    74.2 10458.0
GR  74.1 10467.0    73.2 10477.0    70.8 10487.0    68.0 10498.0    67.0 10508.0
GR  63.9 10519.0    56.1 10538.0    52.3 10558.0    51.2 10567.0    52.3 10577.0
GR  52.0 10598.0    56.4 10637.0    58.5 10648.0    59.4 10656.0    59.3 10678.0
GR  56.0 10708.0    55.9 10727.0    58.3 10747.0    60.3 10758.0    66.5 10816.0
GR  66.1 10829.0    69.4 10858.0    76.0 10883.0    87.6 10898.0    92.5 10913.0
GR  96.6 10934.0    96.6 11096.0    97.6 14096.0   117.6 14098.0
X1309.90     33.   10310   10707    1900    1900    1900
X3    10
GR 111.9  7108.0    91.9  7110.0    90.9 10110.0    90.9 10148.0    90.9 10198.0
GR  94.0 10249.0    90.9 10310.0    82.7 10338.0    69.0 10360.0    63.1 10380.0
GR  63.3 10411.0    62.3 10419.0    62.2 10450.0    63.2 10459.0    63.3 10469.0
GR  62.2 10478.0    62.3 10489.0    60.2 10508.0    60.2 10519.0    54.3 10579.0
GR  54.4 10589.0    52.4 10609.0    52.2 10621.0    56.5 10640.0    59.1 10649.0
GR  63.5 10660.0    88.0 10698.0    97.2 10707.0    97.2 10750.0    97.2 10799.0
GR  97.2 10947.0    98.2 13947.0   118.2 13949.0
X1310.26     35.   10337   10742    1900    1900    1900
X3    10
GR 122.3  7143.0   102.3  7145.0   101.3 10145.0   101.9 10198.0   103.1 10248.0
GR  99.9 10296.0    99.9 10337.0   100.0 10338.0    96.1 10347.0    81.8 10394.0
GR  75.8 10407.0    74.8 10418.0    64.6 10439.0    61.1 10449.0    60.1 10458.0
GR  60.0 10468.0    58.9 10477.0    44.0 10508.0    33.6 10538.0    31.3 10550.0
GR  30.3 10558.0    30.3 10569.0    31.4 10578.0    35.6 10599.0    37.2 10610.0
GR  39.6 10619.0    54.1 10656.0    56.9 10669.0    64.2 10686.0    81.7 10717.0
GR 100.2 10742.0   104.6 10796.0   102.9 10945.0   103.9 13945.0   123.9 13947.0
X1310.78     38.   10340   10759    2744    2744    2744
X3    10
GR 116.1  7096.0    96.1  7098.0    95.1 10098.0    95.1 10147.0    95.1 10199.0
GR  95.5 10297.0    95.4 10339.0    95.1 10340.0    86.9 10354.0    75.7 10369.0
GR  67.2 10388.0    65.2 10398.0    60.1 10408.0    59.4 10418.0    56.9 10427.0
GR  55.9 10435.0    57.0 10448.0    57.1 10469.0    56.2 10479.0    56.0 10520.0
GR  59.1 10548.0    60.9 10558.0    64.0 10587.0    64.2 10598.0    66.1 10607.0
GR  68.0 10626.0    67.9 10638.0    72.9 10686.0    75.1 10699.0    82.9 10729.0
GR  87.7 10758.0    87.7 10759.0    87.7 10799.0    93.4 10848.0    87.7 10897.0
GR  90.0 10956.0    91.0 13956.0   111.0 13958.0
X1310.94     30.   10307   10750     844     844     844
X3    10
GR 116.0  7098.0    96.0  7100.0    95.0 10100.0    95.0 10149.0    95.0 10307.0
GR  86.3 10318.0    77.9 10328.0    72.9 10335.0    71.1 10338.0    60.1 10374.0
GR  58.9 10379.0    56.9 10389.0    56.2 10398.0    56.2 10459.0    57.3 10468.0
GR  57.2 10479.0    60.2 10507.0    60.0 10520.0    63.5 10548.0    63.4 10580.0
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Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

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GR  67.5 10617.0    67.3 10628.0    76.1 10660.0    85.4 10707.0    89.0 10750.0
GR  91.2 10800.0    95.2 10847.0    92.8 10895.0    93.8 13895.0   113.8 13897.0
X1311.02     34.   10245   10705     422     422     422
X3    10
GR 117.6  7048.0    97.6  7050.0    96.6 10050.0    96.6 10101.0    96.6 10155.0
GR  96.6 10245.0    76.1 10281.0    70.4 10288.0    67.3 10297.0    64.3 10309.0
GR  60.3 10319.0    58.5 10328.0    54.5 10339.0    50.9 10367.0    53.1 10378.0
GR  60.6 10451.0    64.4 10487.0    64.5 10508.0    65.7 10518.0    65.5 10528.0
GR  67.4 10549.0    67.5 10568.0    68.6 10577.0    68.6 10587.0    69.6 10597.0
GR  69.5 10609.0    71.5 10628.0    75.5 10646.0    96.4 10705.0    96.4 10797.0
GR  96.4 10849.0    96.4 10898.0    97.4 13898.0   117.4 13900.0
X1311.20     35. 10270.2 10674.9     950     950     950
X3    10
GR 115.8  7048.3    95.8  7050.3    94.8 10050.3    94.8 10200.1    94.9 10250.3
GR  94.8 10270.2    84.5 10284.2    75.3 10304.6    74.0 10310.7    68.8 10321.4
GR  68.8 10330.4    66.0 10360.9    61.9 10381.5    58.9 10411.6    54.8 10421.2
GR  54.8 10451.1    53.9 10462.1    55.1 10470.5    54.8 10490.9    55.9 10500.8
GR  56.2 10521.7    58.1 10540.0    58.0 10552.0    59.1 10559.9    59.1 10581.8
GR  61.2 10591.1    61.9 10601.5    64.1 10610.9    94.6 10674.9    94.6 10698.8
GR  94.6 10750.2    95.9 10799.3    96.0 10874.5    97.0 13874.5   117.0 13876.5
X1311.70     28.   10219   10626    2640    2640    2640
X3    10
GR 112.2  7019.0    92.2  7021.0    91.2 10021.0    91.2 10051.0    91.2 10102.0
GR  91.2 10219.0    91.2 10220.0    84.6 10242.0    82.3 10272.0    69.7 10301.0
GR  56.8 10362.0    56.8 10432.0    55.8 10443.0    56.8 10452.0    56.6 10472.0
GR  57.8 10481.0    57.7 10491.0    59.8 10512.0    57.7 10531.0    57.7 10542.0
GR  71.7 10592.0    75.1 10595.0    84.5 10613.0    98.2 10626.0    98.2 10753.0
GR  98.2 10827.0    99.2 13827.0   119.2 13829.0
X1311.90     28.   10300   10704    1056    1056    1056
X3    10
GR 111.7  7097.0    91.7  7099.0    90.7 10099.0    90.7 10149.0    90.7 10196.0
GR  91.4 10247.0    90.7 10300.0    85.6 10320.0    75.1 10338.0    74.0 10348.0
GR  66.8 10368.0    62.9 10387.0    63.3 10538.0    62.1 10545.0    62.1 10557.0
GR  63.2 10566.0    63.1 10607.0    65.1 10617.0    68.2 10626.0    68.1 10637.0
GR  68.9 10647.0    71.1 10656.0    75.8 10663.0    85.3 10690.0    98.5 10704.0
GR  98.5 10896.0    99.5 13896.0   119.5 13898.0
X1312.10     28.   10273   10621    1056    1056    1056
X3    10
GR 110.5  7066.0    90.5  7068.0    89.5 10068.0    87.0 10100.0    91.0 10201.0
GR  85.1 10250.0    84.7 10273.0    68.3 10315.0    66.8 10319.0    64.8 10330.0
GR  64.0 10339.0    64.0 10420.0    63.0 10429.0    62.9 10470.0    63.8 10480.0
GR  63.9 10492.0    65.7 10510.0    65.9 10531.0    67.8 10549.0    67.9 10561.0
GR  69.8 10580.0    73.6 10590.0    74.9 10595.0    84.3 10609.0    98.0 10621.0
GR  98.0 10799.0    99.0 13799.0   119.0 13801.0
X1312.35     33.   10269   10642    1320    1320    1320
X3    10
GR 110.5  7069.0    90.5  7071.0    89.5 10071.0    89.5 10094.0    89.5 10147.0
GR  89.5 10197.0    89.5 10248.0    89.5 10269.0    75.3 10308.0    74.2 10316.0
GR  68.9 10329.0    63.1 10347.0    62.2 10357.0    62.2 10389.0    60.2 10409.0
GR  60.0 10448.0    58.8 10458.0    59.3 10467.0    55.2 10508.0    53.3 10517.0
GR  53.4 10528.0    57.1 10548.0    59.0 10566.0    61.2 10577.0    62.0 10588.0
GR  68.1 10598.0    69.6 10606.0    85.3 10629.0    98.5 10642.0    98.5 10746.0
GR  98.5 10845.0    99.5 13845.0   119.5 13847.0
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Subsegment 080101
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X1312.58     36.   10201   10547    1214    1214    1214
X3    10
GR 114.9  7023.0    94.9  7025.0    93.9 10025.0    93.2 10048.0    89.8 10099.0
GR  91.8 10147.0    89.8 10201.0    84.8 10221.0    66.9 10258.0    65.2 10268.0
GR  62.2 10279.0    60.9 10289.0    61.0 10310.0    59.1 10329.0    59.1 10340.0
GR  60.0 10350.0    59.9 10379.0    58.8 10388.0    58.8 10410.0    59.8 10420.0
GR  60.0 10429.0    57.3 10459.0    55.2 10469.0    57.8 10479.0    60.0 10489.0
GR  59.9 10499.0    63.0 10509.0    65.0 10519.0    70.3 10528.0    83.9 10547.0
GR  95.3 10598.0    99.8 10648.0   100.9 10697.0   100.1 10747.0   101.1 13747.0
GR 121.1 13749.0
X1312.78     32.   10303   10693    1056    1056    1056
X3    10
GR 117.1  7096.0    97.1  7098.0    96.1 10098.0    95.0 10147.0    96.4 10197.0
GR  93.0 10246.0    87.9 10297.0    87.9 10303.0    77.2 10319.0    74.0 10338.0
GR  70.4 10348.0    64.8 10369.0    59.8 10378.0    57.0 10388.0    57.2 10398.0
GR  58.2 10408.0    57.9 10418.0    59.1 10428.0    59.1 10468.0    58.2 10476.0
GR  58.1 10549.0    59.2 10557.0    58.4 10567.0    60.3 10588.0    61.3 10597.0
GR  66.2 10617.0    88.7 10651.0   101.1 10693.0   101.5 10747.0   101.1 10895.0
GR 102.1 13895.0   122.1 13897.0
X1312.98     35.   10297   10661    1056    1056    1056
X3    10
GR 118.4  7095.0    98.4  7097.0    97.4 10097.0    97.4 10147.0    97.4 10197.0
GR  97.4 10248.0    97.5 10295.0    97.4 10297.0    84.6 10313.0    76.1 10325.0
GR  71.1 10338.0    68.6 10349.0    57.9 10368.0    55.9 10379.0    57.2 10390.0
GR  57.2 10400.0    56.0 10408.0    56.1 10430.0    57.1 10437.0    57.2 10450.0
GR  58.0 10459.0    58.1 10468.0    59.2 10480.0    59.0 10490.0    60.2 10499.0
GR  59.8 10558.0    61.8 10569.0    65.0 10597.0    67.7 10608.0    93.1 10661.0
GR  93.1 10699.0   100.8 10800.0   100.6 10898.0   101.6 13898.0   121.6 13900.0
X1313.18     36.   10294   10672    1056    1056    1056
X3    10
GR 118.4  7096.0    98.4  7098.0    97.4 10098.0    97.4 10149.0    97.6 10248.0
GR  97.4 10294.0    93.0 10308.0    80.3 10337.0    63.9 10368.0    59.3 10381.0
GR  53.3 10410.0    53.0 10420.0    55.0 10431.0    57.9 10458.0    58.1 10470.0
GR  58.9 10479.0    59.1 10489.0    57.9 10499.0    58.0 10509.0    57.0 10521.0
GR  57.0 10559.0    58.9 10579.0    59.3 10599.0    60.4 10610.0    61.8 10618.0
GR  62.8 10629.0    75.1 10651.0    86.7 10660.0    92.7 10671.0    92.6 10672.0
GR  96.3 10698.0    99.5 10748.0   101.0 10802.0   100.0 10899.0   101.0 13899.0
GR 121.0 13901.0
X1313.38     35.   10267   10629    1056    1056    1056
X3    10
GR 116.9  7046.0    96.9  7048.0    95.9 10048.0    92.0 10097.0    90.6 10147.0
GR  90.9 10197.0    90.6 10247.0    90.6 10267.0    84.5 10276.0    74.9 10287.0
GR  72.4 10299.0    67.7 10319.0    67.9 10330.0    68.9 10339.0    66.3 10349.0
GR  63.9 10359.0    63.8 10388.0    60.8 10420.0    60.9 10438.0    59.9 10446.0
GR  60.2 10461.0    56.8 10469.0    57.0 10498.0    55.1 10508.0    54.8 10530.0
GR  55.8 10538.0    58.1 10549.0    62.0 10559.0    63.9 10568.0   100.0 10629.0
GR 100.0 10698.0   100.2 10763.0   100.0 10897.0   101.0 13897.0   121.0 13899.0
X1313.58     28.   10189   10718    1056    1056    1056
X3    10
GR 115.8  7066.0    95.8  7068.0    94.8 10068.0    94.8 10111.0    94.8 10149.0
GR  94.8 10189.0    87.4 10247.0    88.9 10268.0    72.1 10339.0    68.4 10349.0
GR  66.2 10369.0    66.4 10419.0    64.3 10427.0    63.2 10437.0    63.5 10519.0
GR  62.2 10528.0    63.3 10538.0    63.4 10579.0    64.3 10587.0    64.4 10629.0
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Originated: January 31, 2002
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GR  63.0 10637.0    64.1 10647.0    66.3 10658.0    74.1 10676.0    99.8 10718.0
GR  99.8 10948.0   100.8 13948.0   120.8 13950.0
X1313.78     36.   10334   10674    1056    1056    1056
X3    10
GR 113.2  7132.0    93.2  7134.0    92.2 10134.0    93.3 10149.0    93.7 10197.0
GR  93.2 10249.0    93.6 10263.0    89.3 10299.0    89.3 10334.0    73.9 10377.0
GR  69.9 10399.0    66.0 10408.0    63.1 10418.0    58.9 10428.0    57.2 10437.0
GR  56.1 10448.0    57.2 10459.0    57.1 10477.0    58.1 10489.0    58.2 10509.0
GR  59.1 10518.0    59.1 10528.0    58.3 10537.0    54.2 10558.0    54.1 10567.0
GR  55.1 10577.0    57.3 10587.0    62.3 10599.0    63.2 10609.0    66.0 10617.0
GR  70.2 10637.0    75.6 10651.0    99.6 10674.0    99.6 10896.0   100.6 13896.0
GR 120.6 13898.0
X1313.95     38.   10286   10627     897     897     897
X3    10
GR 116.2  7097.0    96.2  7099.0    95.2 10099.0    93.3 10149.0    92.9 10200.0
GR  92.2 10249.0    88.3 10286.0    80.8 10309.0    75.4 10311.0    69.5 10329.0
GR  66.0 10338.0    62.8 10349.0    60.9 10361.0    57.9 10368.0    55.8 10378.0
GR  54.7 10389.0    55.4 10419.0    53.5 10428.0    54.8 10440.0    53.6 10448.0
GR  54.0 10469.0    52.7 10477.0    53.0 10509.0    51.9 10517.0    53.8 10529.0
GR  55.5 10539.0    58.4 10549.0    58.9 10558.0    61.8 10569.0    72.9 10588.0
GR  75.9 10596.0    93.2 10627.0    94.0 10647.0    93.2 10698.0    93.2 10747.0
GR  93.2 10829.0    94.2 13829.0   114.2 13831.0
X1314.17     43.   10302   10619    1161    1161    1161
X3    10
GR 117.9  7145.0    97.9  7147.0    96.9 10147.0    96.9 10196.0    96.9 10246.0
GR  96.9 10302.0    85.1 10324.0    75.5 10336.0    73.2 10347.0    63.3 10370.0
GR  61.0 10379.0    59.0 10388.0    58.1 10398.0    56.5 10406.0    53.2 10437.0
GR  53.2 10449.0    51.1 10458.0    50.2 10469.0    51.2 10481.0    52.9 10490.0
GR  54.0 10500.0    57.0 10510.0    59.4 10520.0    62.2 10528.0    62.4 10537.0
GR  66.0 10558.0    72.6 10579.0    87.3 10602.0    88.2 10609.0    95.0 10619.0
GR  96.4 10647.0    99.4 10660.0   115.8 10685.0   109.9 10696.0   112.8 10699.0
GR 109.0 10714.0   122.9 10720.0   121.7 10747.0   122.6 10779.0   118.8 10796.0
GR 117.8 10823.0   118.8 13823.0   138.8 13825.0
X1314.75     38.   10248   10724    3061    3061    3061
X3    10
GR 120.6  7050.0   100.6  7052.0    99.6 10052.0    99.6 10112.0    99.6 10149.0
GR  99.6 10195.0    99.6 10248.0    87.6 10258.0    75.0 10280.0    72.3 10287.0
GR  70.2 10297.0    66.8 10308.0    64.7 10320.0    64.8 10328.0    63.0 10340.0
GR  62.9 10348.0    61.8 10360.0    61.6 10421.0    62.5 10428.0    62.6 10440.0
GR  63.6 10448.0    64.0 10469.0    64.8 10478.0    65.1 10488.0    65.8 10497.0
GR  65.9 10507.0    66.9 10517.0    66.7 10539.0    67.7 10548.0    68.0 10568.0
GR  74.7 10599.0    75.5 10608.0    77.4 10618.0    90.6 10724.0    90.6 10797.0
GR  90.8 10847.0    91.8 13847.0   111.8 13849.0
X1314.89     33.   10311   10690     739     739     739
X3    10
GR 120.4  7097.0   100.4  7099.0    99.4 10099.0   100.5 10149.0    97.9 10200.0
GR  91.7 10249.0    90.8 10311.0    84.9 10329.0    80.0 10354.0    72.6 10380.0
GR  68.7 10390.0    65.6 10401.0    63.8 10419.0    63.9 10430.0    62.0 10450.0
GR  61.9 10543.0    61.0 10552.0    58.8 10561.0    59.0 10571.0    56.8 10591.0
GR  56.9 10621.0    58.8 10631.0    60.0 10642.0    62.9 10652.0    81.7 10681.0
GR  95.0 10690.0    95.8 10693.0    95.1 10702.0    95.0 10753.0    95.0 10853.0
GR  95.0 10893.0    96.0 13893.0   116.0 13895.0
X1315.26     34.   10503   10930    1953    1953    1953
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Subsegment 080101
Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

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X3    10
GR 121.5  7045.0   101.5  7047.0   100.5 10047.0    96.5 10098.0    93.3 10148.0
GR  93.3 10198.0    93.3 10249.0    93.9 10298.0    93.3 10347.0    93.3 10503.0
GR  70.6 10559.0    69.4 10570.0    64.2 10589.0    65.5 10599.0    63.5 10609.0
GR  63.7 10619.0    61.5 10638.0    61.6 10668.0    60.7 10679.0    60.6 10699.0
GR  57.6 10729.0    57.5 10739.0    58.7 10749.0    57.5 10760.0    57.6 10770.0
GR  70.6 10829.0    74.9 10839.0    83.0 10843.0    89.9 10872.0    88.9 10899.0
GR  95.6 10930.0    95.6 11052.0    96.6 14052.0   116.6 14054.0
X1315.63     28.   10263   10597    1953    1953    1953
X3    10
GR 120.5  7064.0   100.5  7066.0    99.5 10066.0    99.5 10263.0    68.7 10318.0
GR  67.7 10327.0    62.5 10347.0    60.6 10367.0    60.8 10409.0    62.1 10419.0
GR  61.8 10448.0    64.0 10468.0    63.9 10479.0    65.2 10489.0    65.1 10519.0
GR  66.1 10528.0    74.2 10548.0    75.2 10558.0    87.1 10591.0    87.8 10597.0
GR  87.8 10649.0    91.0 10676.0    89.4 10698.0    89.9 10747.0    94.5 10768.0
GR  92.8 10798.0    93.8 13798.0   113.8 13800.0
X1315.82     30.   10312   10676    1003    1003    1003
X3    10
GR 120.4  7096.0   100.4  7098.0    99.4 10098.0    99.4 10312.0    71.8 10368.0
GR  69.6 10387.0    69.8 10399.0    62.4 10451.0    62.3 10463.0    61.5 10470.0
GR  61.9 10521.0    62.7 10528.0    64.7 10538.0    64.7 10550.0    65.8 10558.0
GR  65.7 10569.0    66.7 10579.0    66.7 10608.0    67.7 10618.0    67.8 10629.0
GR  86.3 10661.0    92.0 10676.0    92.0 10699.0    92.0 10729.0    92.2 10740.0
GR  93.2 10747.0    92.0 10798.0    92.0 10846.0    93.0 13846.0   113.0 13848.0
X1316.00     21.   10283   10632     950     950     950
X3    10
GR 119.4  7100.0    99.4  7102.0    98.4 10102.0    98.4 10283.0    84.0 10334.0
GR  80.5 10336.0    80.1 10339.0    58.7 10432.0    58.9 10443.0    57.7 10453.0
GR  57.8 10493.0    58.8 10502.0    58.9 10522.0    60.1 10533.0    90.0 10619.0
GR  94.2 10626.0    94.5 10632.0    94.5 10801.0    94.5 10826.0    95.5 13826.0
GR 115.5 13828.0
X1316.18     29. 10251.1 10598.0     950     950     950
X3    10
GR 118.3  7046.8    98.3  7048.8    97.3 10048.8    96.3 10099.2    87.1 10197.7
GR  86.0 10247.2    85.4 10251.1    83.4 10252.0    81.9 10262.8    76.2 10270.8
GR  74.8 10275.7    65.7 10289.9    65.9 10299.3    62.5 10318.9    62.8 10329.3
GR  59.7 10359.8    60.8 10368.8    60.5 10429.3    61.6 10439.3    63.7 10449.3
GR  65.5 10468.8    65.7 10479.7    73.9 10518.4    74.8 10531.4    80.4 10547.1
GR  85.8 10598.0    92.3 10786.3    93.3 13786.3   113.3 13788.3
X1316.36     24.   10273   10625     950     950     950
X3    10
GR 115.3  7271.0    95.3  7273.0    94.3 10273.0    82.3 10300.0    74.6 10307.0
GR  62.4 10368.0    62.7 10390.0    61.5 10399.0    61.5 10460.0    63.0 10470.0
GR  62.8 10480.0    64.8 10500.0    66.6 10510.0    69.8 10540.0    69.7 10560.0
GR  71.7 10570.0    84.0 10590.0    93.4 10625.0    93.4 10650.0    93.4 10700.0
GR  93.4 10752.0    93.4 10826.0    94.4 13826.0   114.4 13828.0
X1316.55     34. 10326.9 10691.7    1003    1003    1003
X3    10
GR 112.7  7094.2    92.7  7096.2    91.7 10096.2    93.0 10144.1    92.3 10194.8
GR  92.7 10245.1    86.9 10297.2    83.9 10326.9    70.2 10358.3    65.9 10367.6
GR  54.2 10397.1    52.0 10406.9    51.1 10419.4    46.5 10428.2    46.8 10440.1
GR  45.1 10458.0    47.1 10469.0    47.1 10477.9    47.9 10488.4    47.9 10530.7
GR  52.4 10569.2    54.0 10579.2    54.9 10587.7    57.2 10598.3    59.4 10606.3
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Subsegment 080101
Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

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GR  66.4 10617.0    86.4 10658.5    91.0 10691.0    95.6 10691.2    95.5 10691.7
GR  96.1 10746.0    95.5 10864.4    96.5 13864.4   116.5 13866.4
X1316.90     25.   10281   10603    1847    1847    1847
X3    10
GR 115.6  7097.0    95.6  7099.0    94.6 10099.0    94.6 10148.0    94.6 10248.0
GR  94.6 10281.0    84.3 10306.0    75.7 10317.0    67.9 10338.0    62.1 10369.0
GR  61.3 10379.0    61.2 10499.0    62.2 10509.0    65.0 10518.0    67.5 10530.0
GR  70.1 10539.0    75.2 10549.0    81.1 10567.0    91.0 10587.0    95.4 10603.0
GR  95.4 10652.0    96.3 10700.0    96.5 10788.0    97.5 13788.0   117.5 13790.0
X1317.35     28.   10254   10603    2375    2375    2375
X3    10
GR 113.4  7046.0    93.4  7048.0    92.4 10048.0    93.2 10098.0    93.0 10149.0
GR  92.4 10198.0    93.5 10249.0    92.4 10254.0    73.8 10298.0    70.1 10309.0
GR  68.4 10329.0    68.0 10379.0    65.9 10400.0    66.0 10410.0    62.2 10450.0
GR  62.2 10471.0    61.0 10480.0    61.1 10511.0    63.3 10529.0    66.0 10540.0
GR  68.1 10550.0    70.1 10570.0    83.0 10589.0    96.8 10603.0    97.4 10609.0
GR  96.8 10824.0    97.8 13824.0   117.8 13826.0
X1317.55     33.   10250   10590    1056    1056    1056
X3    10
GR 112.7  7047.0    92.7  7049.0    91.7 10049.0    93.6 10099.0    91.4 10149.0
GR  90.4 10198.0    88.1 10250.0    82.7 10271.0    74.6 10280.0    69.6 10290.0
GR  63.1 10319.0    61.4 10338.0    59.4 10348.0    50.1 10380.0    48.0 10389.0
GR  49.1 10398.0    49.2 10409.0    50.3 10419.0    50.2 10431.0    52.0 10449.0
GR  54.2 10460.0    55.1 10470.0    58.2 10479.0    60.0 10489.0    64.5 10500.0
GR  65.2 10510.0    67.1 10518.0    75.3 10533.0    84.3 10544.0    98.1 10590.0
GR  98.6 10796.0    99.6 13796.0   119.6 13798.0
X1317.62     36.   10258   10653     369     369     369
X3    10
GR 115.3  7050.0    95.3  7052.0    94.3 10052.0    94.3 10100.0    94.3 10150.0
GR  94.3 10199.0    94.3 10258.0    86.8 10289.0    75.0 10302.0    69.0 10320.0
GR  69.1 10329.0    64.7 10340.0    67.0 10350.0    65.9 10361.0    60.9 10388.0
GR  61.0 10399.0    60.0 10407.0    60.0 10431.0    59.1 10439.0    57.2 10449.0
GR  56.2 10459.0    50.0 10490.0    50.1 10509.0    51.9 10530.0    55.7 10549.0
GR  58.7 10560.0    75.0 10606.0    83.9 10621.0    90.6 10643.0    97.8 10653.0
GR  97.8 10701.0    97.8 10810.0    97.8 10820.0    97.8 10855.0    98.8 13855.0
GR 118.8 13857.0
X1318.00     31.   10240   10565    2006    2006    2006
X3    10
GR 115.8  7022.0    95.8  7024.0    94.8 10024.0    95.2 10100.0    95.2 10147.0
GR  94.5 10199.0    94.6 10224.0    94.5 10240.0    82.1 10254.0    66.9 10289.0
GR  62.0 10308.0    59.6 10317.0    56.6 10348.0    57.7 10357.0    58.0 10391.0
GR  63.9 10449.0    63.9 10457.0    64.9 10468.0    64.7 10480.0    65.9 10489.0
GR  66.0 10499.0    69.8 10509.0    71.0 10517.0    85.3 10565.0    90.8 10606.0
GR  88.1 10649.0    89.2 10698.0    94.9 10748.0    92.5 10798.0    93.5 13798.0
GR 113.5 13800.0
X1318.20     31.   10254   10549     900     600    1056
X3    10
GR 111.5  7047.0    91.5  7049.0    90.5 10049.0    90.5 10100.0    90.5 10199.0
GR  91.1 10247.0    90.5 10254.0    86.8 10268.0    74.4 10286.0    64.3 10301.0
GR  59.7 10339.0    59.6 10350.0    58.5 10361.0    58.8 10389.0    59.8 10400.0
GR  59.8 10451.0    60.9 10459.0    61.0 10470.0    63.0 10493.0    65.0 10501.0
GR  64.7 10512.0    68.3 10521.0    76.3 10536.0    92.0 10549.0    96.3 10601.0
GR  93.2 10650.0    95.2 10699.0    93.8 10751.0    92.3 10780.0    93.3 13780.0
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GR 113.3 13782.0
X1318.38     31.   10248   10621     800     700     950
X3    10
GR 113.6  7095.0    93.6  7097.0    92.6 10097.0    92.6 10148.0    92.6 10248.0
GR  86.9 10261.0    86.1 10274.0    74.9 10288.0    64.3 10318.0    63.5 10327.0
GR  63.5 10379.0    61.6 10397.0    61.6 10409.0    59.4 10430.0    59.5 10480.0
GR  58.5 10489.0    58.5 10499.0    60.3 10509.0    61.5 10519.0    65.4 10539.0
GR  66.5 10548.0    68.5 10559.0    98.5 10621.0    98.5 10628.0    99.2 10648.0
GR  99.3 10699.0    98.5 10748.0    98.5 10798.0    98.5 10834.0    99.5 13834.0
GR 119.5 13836.0
X1318.56     30.   10288   10562     300     800     950
X3    10
GR 113.6  7072.0    93.6  7074.0    92.6 10074.0    92.3 10098.0    91.1 10147.0
GR  94.1 10200.0    91.2 10287.0    91.1 10288.0    87.4 10298.0    66.8 10328.0
GR  63.9 10337.0    60.2 10357.0    60.1 10368.0    57.9 10388.0    56.1 10398.0
GR  55.2 10407.0    54.9 10418.0    56.2 10428.0    55.2 10437.0    54.9 10480.0
GR  57.2 10488.0    57.0 10508.0    69.0 10538.0    82.0 10556.0    94.5 10562.0
GR  94.5 10698.0    94.5 10749.0    94.5 10772.0    95.5 13772.0   115.5 13774.0
X1318.73     34.   10315   10655     700    1100     897
X3    10
GR 114.9  7095.0    94.9  7097.0    93.9 10097.0    93.9 10196.0    93.9 10248.0
GR  93.9 10297.0    93.9 10315.0    88.7 10334.0    74.9 10371.0    70.1 10388.0
GR  65.9 10408.0    62.8 10436.0    63.0 10458.0    62.0 10468.0    59.9 10478.0
GR  60.0 10489.0    61.0 10498.0    61.1 10518.0    62.0 10528.0    61.9 10539.0
GR  63.0 10548.0    63.1 10558.0    64.8 10568.0    66.1 10577.0    65.9 10589.0
GR  66.9 10597.0    74.6 10622.0    82.4 10633.0    87.2 10655.0    87.5 10699.0
GR  95.3 10749.0    94.1 10899.0    95.1 13899.0   115.1 13901.0
X1318.91     28.   10224   10550     300     800     950
X3    10
GR 111.9  9148.0    91.9  9150.0    90.9 10150.0    92.1 10199.0    90.9 10224.0
GR  83.8 10241.0    74.2 10253.0    68.7 10269.0    64.9 10289.0    61.7 10298.0
GR  61.8 10310.0    60.6 10320.0    60.7 10351.0    62.7 10369.0    62.7 10389.0
GR  61.7 10400.0    61.8 10410.0    62.8 10419.0    62.8 10460.0    61.7 10470.0
GR  63.8 10479.0    64.8 10489.0    96.5 10549.0    96.4 10550.0    96.4 10798.0
GR  96.4 10848.0    97.4 13848.0   117.4 13850.0
X1319.10     19.   10293   10625     250     900    1003
X3    10
GR 112.6  8094.0    92.6  8096.0    91.6 10096.0    89.4 10199.0    89.6 10247.0
GR  89.4 10293.0    84.0 10340.0    71.0 10378.0    67.9 10407.0    68.0 10419.0
GR  53.9 10508.0    53.9 10519.0    55.9 10528.0    55.9 10538.0    57.1 10548.0
GR  95.3 10625.0    95.3 10836.0    96.3 13836.0   116.3 13838.0
X1319.30     31.   10290   10726     250    1300    1056
X3    10
GR 114.4  7072.0    94.4  7074.0    93.4 10074.0    93.4 10099.0    94.2 10250.0
GR  93.4 10290.0    74.1 10339.0    72.6 10349.0    72.9 10372.0    71.6 10380.0
GR  71.8 10391.0    69.8 10410.0    67.9 10421.0    64.5 10452.0    62.7 10460.0
GR  62.9 10471.0    61.7 10481.0    61.9 10490.0    60.8 10501.0    61.1 10511.0
GR  58.7 10532.0    58.9 10551.0    56.7 10572.0    56.8 10583.0    58.2 10592.0
GR  88.1 10677.0    91.6 10717.0    98.4 10726.0    98.4 10951.0    99.4 13951.0
GR 119.4 13953.0
X1319.60      10    1800    2200    1584    1584    1584
X3    10
GR   115       0      94       1      92    1800      63    1900      62    2000
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GR    81    2100      86    2200      90    2300      95    5300     120    5301
X1319.86      10    1600    2000    1373    1373    1373
X3    10
GR   115       0      94       1      92    1600      63    1700      62    1800
GR    81    1900      86    2000      90    2100      95    5100     120    5101
X1319.94     23.   10255   10551     422     422     422
X3    10
GR 115.5  7045.0    95.5  7047.0    94.5 10047.0    95.2 10098.0    95.0 10249.0
GR  94.5 10255.0    63.5 10347.0    58.5 10398.0    58.7 10409.0    59.8 10420.0
GR  61.6 10428.0    67.9 10489.0    67.9 10499.0    74.0 10533.0    86.0 10551.0
GR  86.0 10599.0    90.5 10625.0    95.8 10634.0    94.7 10648.0    94.5 10700.0
GR  92.8 10750.0    93.8 13750.0   113.8 13752.0
X1320.15     28.   10310   10619    1000     600    1108
X3    10
GR 115.3  7097.0    95.3  7099.0    94.3 10099.0    92.7 10150.0    96.0 10200.0
GR  90.9 10309.0    90.5 10310.0    73.7 10330.0    69.2 10342.0    65.4 10361.0
GR  64.6 10371.0    62.5 10381.0    60.4 10401.0    60.6 10460.0    61.7 10470.0
GR  61.5 10491.0    65.6 10530.0    65.6 10541.0    69.8 10561.0    69.5 10569.0
GR  70.4 10580.0    70.6 10591.0    73.9 10601.0    88.1 10619.0    94.7 10700.0
GR  95.8 10820.0    96.8 13820.0   116.8 13822.0
X1320.35     24.   10267   10582    1056    1056    1056
X3    10
GR 113.2  7046.0    93.2  7048.0    92.2 10048.0    89.8 10199.0    86.9 10250.0
GR  86.9 10267.0    73.7 10291.0    65.5 10359.0    65.4 10370.0    63.4 10390.0
GR  63.4 10410.0    62.6 10419.0    62.7 10439.0    61.7 10450.0    61.8 10470.0
GR  68.1 10509.0    89.4 10576.0    97.6 10581.0    97.6 10582.0    97.6 10599.0
GR  97.6 10649.0    97.6 10800.0    98.6 13800.0   118.6 13802.0
X1320.55     16.   10244   10527    1056    1056    1056
X3    10
GR 114.6  7047.0    94.6  7049.0    93.6 10049.0    94.3 10199.0    91.5 10244.0
GR  74.4 10280.0    54.3 10399.0    54.2 10411.0    63.2 10461.0    95.2 10526.0
GR  95.2 10527.0    95.8 10533.0    95.2 10549.0    97.5 10740.0    98.5 13740.0
GR 118.5 13742.0
X1320.75     32.   10273   10588    1056    1056    1056
X3    10
GR 119.8  7065.0    99.8  7067.0    98.8 10067.0    98.8 10119.0    98.8 10149.0
GR  98.8 10199.0    98.8 10273.0    83.4 10289.0    82.0 10295.0    66.6 10330.0
GR  66.3 10342.0    63.3 10371.0    63.4 10380.0    62.4 10389.0    62.4 10400.0
GR  61.4 10410.0    61.6 10431.0    62.4 10441.0    62.3 10460.0    63.7 10471.0
GR  63.4 10513.0    64.7 10520.0    67.6 10531.0    64.6 10540.0    65.9 10550.0
GR  84.7 10586.0    84.8 10588.0    94.9 10692.0    93.1 10701.0    92.8 10802.0
GR  93.8 13802.0   113.8 13804.0
X1320.95     25.   10244   10605    1056    1056    1056
X3    10
GR 119.7  7047.0    99.7  7049.0    98.7 10049.0    98.7 10096.0    98.7 10150.0
GR  98.7 10200.0    98.7 10244.0    74.1 10298.0    69.1 10308.0    67.1 10317.0
GR  62.0 10368.0    62.2 10439.0    64.1 10459.0    64.0 10481.0    65.2 10489.0
GR  65.1 10508.0    70.2 10557.0    91.0 10605.0    94.5 10652.0    94.0 10698.0
GR  94.6 10749.0    95.8 10802.0    93.0 10848.0    94.0 13848.0   114.0 13850.0
X1321.05     30.   10254   10654     528     528     528
X3    10
GR 118.8  7046.0    98.8  7048.0    97.8 10048.0    97.8 10097.0    98.1 10199.0
GR  97.8 10254.0    74.2 10295.0    71.2 10308.0    70.5 10318.0    64.7 10341.0
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Originated: January 31, 2002
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GR  63.0 10350.0    63.0 10390.0    61.8 10400.0    62.0 10429.0    63.1 10440.0
GR  63.3 10451.0    67.0 10489.0    67.4 10531.0    68.2 10541.0    71.1 10552.0
GR  74.3 10559.0    89.9 10619.0    93.4 10654.0    94.6 10701.0    93.4 10752.0
GR  94.7 10798.0    96.6 10850.0    93.4 10901.0    94.4 13901.0   114.4 13903.0
X1321.15     34.   10247   10650     528     528     528
X3    10
GR 119.1  7097.0    99.1  7099.0    98.1 10099.0    98.1 10148.0    98.2 10200.0
GR  98.1 10247.0    68.8 10290.0    62.6 10311.0    61.9 10320.0    61.9 10330.0
GR  59.8 10350.0    60.9 10360.0    58.8 10371.0    59.9 10380.0    58.6 10392.0
GR  61.1 10411.0    60.9 10420.0    62.9 10440.0    62.9 10451.0    64.0 10462.0
GR  63.7 10471.0    62.8 10479.0    63.1 10511.0    63.8 10519.0    65.8 10531.0
GR  72.7 10550.0    74.0 10561.0    91.7 10609.0    96.4 10650.0    96.5 10747.0
GR  96.4 10801.0    96.4 10848.0    97.4 13848.0   117.4 13850.0
X1321.25     40.   10234   10698     528     528     528
X3    10
GR 119.0  7048.0    99.0  7050.0    98.0 10050.0    98.0 10098.0    98.0 10149.0
GR  98.5 10200.0    98.0 10234.0    92.2 10250.0    85.3 10256.0    73.4 10276.0
GR  64.9 10289.0    61.1 10299.0    58.7 10310.0    57.1 10330.0    56.9 10349.0
GR  59.0 10360.0    61.1 10380.0    61.1 10390.0    62.1 10400.0    61.1 10412.0
GR  62.1 10418.0    62.0 10439.0    61.1 10449.0    63.0 10460.0    63.8 10468.0
GR  64.1 10480.0    63.2 10489.0    63.2 10499.0    64.1 10509.0    66.0 10519.0
GR  70.1 10529.0    73.9 10541.0    89.5 10563.0    93.9 10609.0    93.3 10649.0
GR  98.2 10698.0    98.9 10750.0    98.2 10809.0    99.2 13809.0   119.2 13811.0
X1321.55     32.   10280   10677    1584    1584    1584
X3    10
GR 120.8  7071.0   100.8  7073.0    99.8 10073.0   100.4 10097.0    99.2 10147.0
GR  99.8 10199.0    94.2 10247.0    92.8 10280.0    87.5 10307.0    74.7 10351.0
GR  72.6 10359.0    65.5 10377.0    59.0 10409.0    56.8 10419.0    57.3 10481.0
GR  56.4 10489.0    57.3 10498.0    57.2 10519.0    58.4 10528.0    58.3 10538.0
GR  56.1 10559.0    56.4 10568.0    55.4 10577.0    56.4 10589.0    62.5 10608.0
GR  67.5 10618.0    70.4 10628.0    98.7 10677.0    98.7 10699.0    99.2 10749.0
GR 100.2 13749.0   120.2 13751.0
X1321.75     29. 10211.3 10548.1    1056    1056    1056
X3    10
GR 114.8  7158.1    94.8  7160.1    93.8 10160.1    93.8 10211.3    88.8 10234.2
GR  84.1 10237.8    80.1 10242.8    73.9 10249.3    72.1 10258.3    69.3 10268.8
GR  66.1 10278.2    61.0 10328.0    61.1 10339.5    60.2 10347.5    60.1 10358.9
GR  59.2 10366.9    59.2 10397.7    60.1 10407.7    60.2 10439.0    62.2 10457.9
GR  62.2 10468.3    64.3 10478.3    70.3 10498.6    74.2 10515.0    79.7 10515.9
GR  99.2 10548.1    99.3 10597.3   100.3 13597.3   120.3 13599.3
X1321.95     37.   10348   10699    1056    1056    1056
X3    10
GR 120.1  7096.0   100.1  7098.0    99.1 10098.0    98.2 10149.0    99.0 10196.0
GR  98.8 10247.0    98.2 10270.0    93.9 10319.0    93.9 10348.0    89.0 10357.0
GR  86.7 10373.0    76.5 10382.0    68.2 10400.0    65.2 10408.0    62.0 10420.0
GR  60.1 10429.0    60.0 10440.0    61.0 10450.0    61.2 10463.0    62.1 10470.0
GR  62.1 10480.0    64.0 10489.0    65.1 10499.0    65.3 10600.0    64.0 10610.0
GR  67.5 10620.0    67.2 10630.0    68.2 10640.0    80.1 10666.0    81.5 10673.0
GR  88.2 10699.0    89.7 10749.0    89.2 10827.0    93.4 10848.0    94.3 10899.0
GR  95.3 13899.0   115.3 13901.0
X1322.40     46.   10275   10768    2376    2376    2376
X3    10
GR 120.5  7046.0   100.5  7048.0    99.5 10048.0    99.5 10152.0    99.7 10250.0
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GR  99.5 10275.0    94.1 10279.0    83.7 10301.0    76.1 10321.0    72.7 10341.0
GR  73.9 10350.0    74.0 10361.0    69.9 10371.0    71.1 10381.0    71.2 10400.0
GR  68.0 10410.0    61.7 10421.0    64.0 10442.0    63.8 10462.0    64.8 10468.0
GR  64.7 10491.0    65.9 10500.0    69.8 10521.0    73.0 10550.0    72.9 10560.0
GR  76.7 10580.0    80.2 10586.0    82.6 10601.0    83.4 10611.0    87.4 10628.0
GR  87.6 10649.0    90.6 10709.0    86.7 10728.0    90.5 10749.0    96.4 10768.0
GR  98.0 10781.0    97.4 10792.0    96.4 10799.0    96.4 10817.0    96.4 10851.0
GR  98.4 10874.0    97.9 10914.0    96.4 10933.0    97.7 10997.0    98.7 13997.0
GR 118.7 13999.0
X1322.60     41.   10236   10699    1056    1056    1056
X3    10
GR 117.9  7047.0    97.9  7049.0    96.9 10049.0    96.9 10098.0    96.9 10198.0
GR  96.9 10236.0    91.8 10244.0    88.3 10263.0    84.9 10279.0    81.7 10299.0
GR  81.1 10308.0    77.0 10317.0    75.4 10328.0    66.0 10348.0    62.0 10359.0
GR  59.2 10368.0    56.0 10383.0    55.0 10389.0    54.0 10399.0    53.8 10411.0
GR  55.2 10419.0    54.9 10428.0    61.2 10487.0    61.1 10496.0    62.2 10508.0
GR  62.1 10529.0    65.0 10557.0    65.0 10567.0    67.2 10588.0    67.0 10598.0
GR  68.8 10609.0    70.4 10620.0    72.3 10630.0    84.1 10658.0    85.8 10677.0
GR  99.4 10699.0    99.4 10750.0    99.4 10839.0    99.4 10899.0   100.4 13899.0
GR 120.4 13901.0
X1322.80     35.   10326   10648    1056    1056    1056
X3    10
GR 114.5  7145.0    94.5  7147.0    93.5 10147.0    93.5 10171.0    93.5 10194.0
GR  93.5 10213.0    93.5 10251.0    93.5 10297.0    93.5 10326.0    85.3 10345.0
GR  76.4 10359.0    75.8 10369.0    71.9 10379.0    68.0 10398.0    66.9 10409.0
GR  65.0 10419.0    64.9 10469.0    63.9 10476.0    64.0 10499.0    65.2 10509.0
GR  65.1 10518.0    65.8 10528.0    68.0 10539.0    71.1 10568.0    70.8 10592.0
GR  71.9 10600.0    76.7 10623.0    79.4 10631.0    98.4 10648.0    98.4 10698.0
GR  99.0 10718.0    98.4 10802.0    98.4 10846.0    99.4 13846.0   119.4 13848.0
X1323.24     28.   10216   10566    2323    2323    2323
X3    10
GR 118.6  7096.0    98.6  7098.0    97.6 10098.0    97.6 10152.0    97.6 10196.0
GR  97.6 10216.0    86.7 10258.0    81.7 10273.0    77.7 10284.0    76.0 10309.0
GR  71.9 10318.0    69.9 10329.0    70.0 10339.0    65.7 10378.0    66.1 10389.0
GR  64.8 10398.0    65.0 10459.0    68.9 10497.0    76.9 10536.0    90.9 10546.0
GR  98.2 10566.0    98.2 10616.0    98.2 10641.0    98.4 10677.0    99.5 10700.0
GR  98.2 10722.0    99.2 13722.0   119.2 13724.0
X1323.43     21.   10248   10547    1004    1004    1004
X3    10
GR 118.4  7190.0    98.4  7192.0    97.4 10192.0    93.8 10215.0    96.3 10235.0
GR  93.8 10248.0    76.9 10283.0    67.0 10319.0    65.0 10338.0    65.1 10377.0
GR  63.9 10388.0    64.3 10469.0    65.4 10478.0   101.5 10547.0   101.5 10548.0
GR 101.5 10559.0   101.5 10589.0   101.8 10610.0   101.6 10647.0   102.6 13647.0
GR 122.6 13649.0
X1323.62     25.   10165   10500    1003    1003    1003
X3    10
GR 116.6  7163.0    96.6  7165.0    95.6 10165.0    86.9 10188.0    86.9 10195.0
GR  82.3 10225.0    77.1 10241.0    76.3 10249.0    72.0 10260.0    69.3 10270.0
GR  66.3 10301.0    66.2 10312.0    65.1 10320.0    65.1 10339.0    64.3 10350.0
GR  64.7 10412.0    65.4 10420.0    69.2 10441.0    70.4 10451.0    72.9 10463.0
GR  77.6 10475.0    96.0 10500.0   101.2 10549.0   102.2 13549.0   122.2 13551.0
X1323.81     28.   10198   10548    1003    1003    1003
X3    10
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GR 120.1  7148.0   100.1  7150.0    99.1 10150.0    99.1 10198.0    92.9 10218.0
GR  86.5 10256.0    76.6 10278.0    76.3 10287.0    65.6 10319.0    61.9 10328.0
GR  61.1 10338.0    60.9 10348.0    60.0 10357.0    60.9 10367.0    59.9 10377.0
GR  59.9 10429.0    62.0 10448.0    62.0 10459.0    63.0 10468.0    63.1 10478.0
GR  64.0 10487.0    67.1 10499.0    75.5 10513.0    83.5 10530.0   102.3 10548.0
GR 102.6 10598.0   103.6 13598.0   123.6 13600.0
X1324.00     28.   10221   10615    1003    1003    1003
X3    10
GR 119.2  7016.0    99.2  7018.0    98.2 10018.0    98.2 10168.0    99.1 10197.0
GR  98.2 10221.0    76.8 10252.0    66.5 10290.0    66.4 10300.0    63.8 10310.0
GR  62.6 10320.0    62.6 10360.0    63.7 10370.0    63.3 10391.0    68.1 10441.0
GR  68.2 10460.0    70.2 10481.0    70.0 10493.0    71.9 10510.0    83.5 10545.0
GR  85.6 10570.0    95.3 10615.0    95.7 10621.0    96.6 10673.0   100.2 10722.0
GR  99.8 10823.0   100.8 13823.0   120.8 13825.0
X1324.38     25.   10260   10665    2006    2006    2006
X3    10
GR 121.1  7098.0   101.1  7100.0   100.1 10100.0   100.1 10148.0   100.1 10200.0
GR 100.1 10260.0    63.6 10352.0    62.4 10359.0    62.5 10372.0    61.6 10380.0
GR  61.5 10390.0    62.5 10400.0    61.7 10411.0    62.8 10420.0    61.4 10430.0
GR  61.6 10484.0    63.5 10501.0    70.7 10530.0    71.6 10541.0    92.4 10653.0
GR 101.6 10665.0   101.6 10700.0   101.6 10851.0   102.6 13851.0   122.6 13853.0
X1324.76     37.   10329   10688    2006    2006    2006
X3    10
GR 116.6  7045.0    96.6  7047.0    95.6 10047.0    97.3 10100.0    94.8 10148.0
GR  95.2 10198.0    94.8 10329.0    83.1 10374.0    65.3 10407.0    61.3 10427.0
GR  61.3 10436.0    60.3 10447.0    62.6 10467.0    62.4 10476.0    61.4 10487.0
GR  58.5 10497.0    58.3 10508.0    59.5 10517.0    57.0 10527.0    60.4 10537.0
GR  58.3 10545.0    57.1 10555.0    57.2 10567.0    59.4 10588.0    61.2 10597.0
GR  61.2 10608.0    66.2 10627.0    70.1 10647.0    75.8 10661.0    80.8 10665.0
GR  92.4 10688.0    94.7 10698.0   100.2 10747.0    97.1 10796.0    95.2 10899.0
GR  96.2 13899.0   116.2 13901.0
X1324.95     35.   10326   10736    1003    1003    1003
X3    10
GR 118.3  7117.0    98.3  7119.0    97.3 10119.0    96.2 10175.0    92.1 10190.0
GR  91.7 10201.0    93.7 10251.0    99.6 10282.0    90.6 10326.0    83.8 10366.0
GR  76.2 10385.0    75.0 10393.0    66.3 10411.0    64.4 10421.0    64.4 10463.0
GR  63.1 10471.0    63.5 10482.0    64.5 10491.0    64.6 10514.0    63.4 10521.0
GR  63.2 10541.0    62.4 10552.0    60.5 10560.0    59.5 10572.0    61.6 10592.0
GR  61.4 10602.0    65.6 10612.0    72.6 10641.0    76.3 10650.0    83.5 10713.0
GR  99.7 10736.0   100.0 10751.0    99.7 10952.0   100.7 13952.0   120.7 13954.0
X1325.14     32.   10272   10612    1003    1003    1003
X3    10
GR 119.6  7066.0    99.6  7068.0    98.6 10068.0    99.3 10099.0    98.3 10159.0
GR  95.8 10177.0    95.8 10199.0    95.8 10248.0    95.8 10272.0    83.7 10315.0
GR  76.5 10326.0    72.3 10338.0    70.9 10348.0    70.9 10359.0    66.1 10368.0
GR  65.9 10378.0    68.9 10389.0    64.9 10399.0    65.0 10410.0    64.0 10419.0
GR  64.1 10490.0    63.1 10500.0    63.1 10510.0    64.2 10519.0    70.1 10549.0
GR  76.2 10569.0    76.9 10578.0    98.7 10612.0    98.7 10702.0    98.7 10818.0
GR  99.7 13818.0   119.7 13820.0
X1325.33     32.   10312   10695    1003    1003    1003
X3    10
GR 118.2  7070.0    98.2  7072.0    97.2 10072.0    91.9 10098.0    89.3 10109.0
GR  91.5 10148.0    99.5 10177.0    99.5 10194.0    93.8 10248.0    94.7 10275.0
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GR  89.3 10312.0    83.9 10323.0    76.5 10329.0    71.8 10337.0    71.8 10349.0
GR  70.8 10355.0    70.8 10367.0    68.7 10377.0    63.8 10427.0    63.7 10496.0
GR  68.1 10506.0    72.1 10546.0    72.0 10557.0    76.6 10607.0    87.5 10620.0
GR  95.3 10643.0   109.2 10695.0   109.2 10745.0   109.2 10794.0   109.2 10845.0
GR 110.2 13845.0   130.2 13847.0
X1325.52     41.   10306   10720    1003    1003    1003
X3    10
GR 121.9  7096.0   101.9  7098.0   100.9 10098.0    99.6 10150.0   101.2 10201.0
GR  98.7 10250.0    99.6 10282.0    95.1 10306.0    78.8 10335.0    76.5 10340.0
GR  68.5 10380.0    65.6 10388.0    64.7 10399.0    64.7 10410.0    62.4 10429.0
GR  62.7 10439.0    61.7 10448.0    61.6 10460.0    58.6 10487.0    58.7 10498.0
GR  57.6 10509.0    57.8 10561.0    56.6 10568.0    59.5 10596.0    65.3 10628.0
GR  67.5 10639.0    68.3 10648.0    70.7 10657.0    71.5 10668.0    75.7 10680.0
GR  76.4 10689.0    78.8 10692.0    90.7 10720.0    93.9 10750.0    92.7 10798.0
GR  97.9 10844.0    99.1 10849.0   107.1 10867.0   104.8 10923.0   105.8 13923.0
GR 125.8 13925.0
X1325.71     39.   10355   10691    1000     850    1003
X3    10
GR 120.5  7095.0   100.5  7097.0    99.5 10097.0   100.2 10146.0   101.9 10225.0
GR  97.4 10247.0    97.4 10295.0    97.4 10355.0    85.2 10396.0    76.1 10408.0
GR  68.9 10427.0    66.1 10438.0    64.1 10448.0    61.8 10467.0    62.2 10499.0
GR  60.1 10507.0    58.8 10518.0    59.0 10529.0    56.6 10548.0    58.1 10559.0
GR  57.8 10568.0    60.8 10578.0    58.8 10587.0    58.6 10606.0    63.9 10628.0
GR  66.0 10637.0    71.8 10658.0    76.5 10667.0    77.1 10672.0    98.6 10691.0
GR  98.6 10747.0    98.6 10761.0    98.6 10796.0    98.6 10831.0    98.6 10846.0
GR  98.6 10894.0    98.6 10897.0    99.6 13897.0   119.6 13899.0
X1325.90     31.   10247   10647     780     900    1003
X3    10
GR 117.4  7046.0    97.4  7048.0    96.4 10048.0    99.3 10098.0    99.5 10149.0
GR 102.0 10168.0    96.7 10197.0    94.2 10247.0    87.5 10297.0    76.9 10335.0
GR  72.2 10358.0    71.3 10368.0    71.4 10388.0    65.0 10407.0    65.2 10417.0
GR  61.3 10458.0    61.4 10468.0    60.3 10478.0    60.3 10537.0    59.4 10547.0
GR  59.3 10557.0    63.5 10567.0    63.4 10577.0    72.4 10606.0    81.1 10627.0
GR  97.7 10647.0    97.7 10698.0    97.7 10753.0    97.7 10847.0    98.7 13847.0
GR 118.7 13849.0
X1326.08     36.   10197   10568     700     600     950
X3    10
GR 121.9  6994.0   101.9  6996.0   100.9  9996.0    99.4 10047.0   101.3 10098.0
GR  98.7 10147.0    98.7 10197.0    92.5 10248.0    83.0 10270.0    76.4 10280.0
GR  71.0 10301.0    66.8 10309.0    65.9 10319.0    64.0 10328.0    60.1 10340.0
GR  58.0 10349.0    57.7 10390.0    58.9 10399.0    58.7 10408.0    59.8 10418.0
GR  60.2 10450.0    63.0 10458.0    61.8 10469.0    62.1 10479.0    65.8 10491.0
GR  69.5 10499.0    71.9 10509.0    75.9 10517.0    77.0 10531.0    80.7 10539.0
GR 101.0 10568.0   101.6 10597.0   101.0 10647.0   101.9 10766.0   102.9 13766.0
GR 122.9 13768.0
X1326.46     40.   10261   10608    1800     100    2006
X3    10
GR 120.9  7049.0   100.9  7051.0    99.9 10051.0    99.9 10101.0   100.4 10153.0
GR  99.9 10261.0    86.1 10275.0    80.0 10299.0    76.3 10317.0    72.7 10321.0
GR  70.9 10340.0    66.9 10359.0    64.7 10380.0    64.8 10401.0    63.9 10411.0
GR  63.8 10421.0    65.0 10431.0    63.8 10441.0    65.0 10452.0    64.8 10461.0
GR  65.8 10471.0    69.8 10491.0    71.0 10501.0    70.9 10522.0    74.6 10529.0
GR  76.4 10540.0    87.1 10565.0    90.2 10582.0    97.4 10608.0    97.4 10652.0
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GR  97.8 10666.0    97.4 10681.0    97.4 10700.0    99.5 10730.0    97.4 10749.0
GR  97.4 10762.0    97.4 10800.0    97.4 10808.0    98.4 15908.0   118.4 15910.0
X1326.65     37.   10276   10617    1150     100    1003
X3    10
GR 124.5  7090.0   104.5  7092.0   103.5 10092.0   103.5 10276.0    97.9 10287.0
GR  92.2 10294.0    83.6 10305.0    80.5 10318.0    75.1 10331.0    72.8 10361.0
GR  70.0 10371.0    70.1 10380.0    67.4 10409.0    67.4 10417.0    68.1 10427.0
GR  69.1 10437.0    69.1 10446.0    69.9 10456.0    70.0 10466.0    75.1 10484.0
GR  78.8 10504.0    79.9 10513.0    79.8 10522.0    80.4 10543.0    85.7 10550.0
GR  94.1 10601.0   101.3 10617.0   101.8 10627.0   101.3 10643.0   101.3 10666.0
GR 101.3 10715.0   102.4 10737.0   102.4 10753.0   101.3 10769.0   101.3 10808.0
GR 102.3 16308.0   122.3 16310.0
X1327.03     30.   10299   10617    2600     125    2006
X3    10
GR 115.3  7077.0    95.3  7079.0    94.3 10079.0    95.9 10098.0    97.5 10148.0
GR  94.1 10207.0    92.7 10248.0    88.9 10299.0    76.9 10316.0    73.2 10329.0
GR  70.0 10339.0    68.1 10347.0    67.0 10358.0    67.0 10368.0    66.0 10376.0
GR  66.1 10390.0    64.2 10409.0    64.0 10469.0    66.0 10490.0    71.8 10519.0
GR  74.0 10530.0    76.8 10539.0    77.0 10550.0    86.6 10577.0    95.4 10617.0
GR  99.1 10649.0   100.6 10699.0    99.4 10755.0   100.4 14755.0   120.4 14757.0
X1327.22     34.   10258   10611     850     250    1003
X3    10
GR 117.1  7046.0    97.1  7048.0    96.1 10048.0    98.9 10097.0    99.0 10149.0
GR  99.6 10197.0    92.1 10248.0    92.1 10258.0    84.0 10278.0    77.1 10284.0
GR  77.3 10299.0    74.8 10309.0    73.1 10329.0    67.1 10349.0    66.0 10360.0
GR  66.0 10380.0    64.0 10399.0    64.0 10419.0    61.0 10450.0    60.9 10469.0
GR  61.9 10479.0    63.9 10491.0    66.9 10501.0    76.7 10529.0    77.0 10539.0
GR 105.0 10550.0   103.2 10565.0   107.1 10586.0   104.7 10611.0   106.6 10650.0
GR 106.0 10749.0   104.7 10809.0   105.7 13809.0   145.7 13811.0
X1327.41     26.   10269   10645     800     800    1003
X3    10
GR 120.1  7048.0   100.1  7050.0    99.1 10050.0    99.7 10098.0    96.2 10148.0
GR  95.8 10198.0    97.4 10250.0    94.4 10269.0    84.1 10295.0    72.9 10309.0
GR  69.1 10319.0    68.1 10328.0    68.3 10359.0    67.1 10368.0    67.1 10378.0
GR  65.1 10388.0    65.2 10418.0    64.1 10428.0    64.2 10529.0    71.1 10559.0
GR  75.2 10569.0    77.7 10583.0    95.9 10620.0   103.9 10645.0   104.9 13645.0
GR 124.9 13647.0
X1327.60     28.   10248   10617     980     900    1003
X3    10
GR 121.6  7046.0   101.6  7048.0   100.6 10048.0   100.6 10103.0   100.6 10199.0
GR 100.6 10248.0    91.0 10262.0    84.8 10300.0    77.3 10324.0    72.1 10331.0
GR  69.0 10338.0    66.9 10360.0    67.1 10371.0    61.9 10422.0    62.3 10470.0
GR  68.1 10529.0    68.0 10541.0    70.1 10559.0    87.8 10617.0    87.8 10628.0
GR  87.8 10650.0    92.0 10687.0    98.4 10698.0   102.4 10748.0   103.8 10799.0
GR 103.2 10847.0   104.2 13847.0   124.2 13849.0
X1327.77     31. 10225.4 10654.0    1000     800     897
X3    10
GR 121.2  7048.4   101.2  7050.4   100.2 10050.4   101.1 10125.3    95.4 10150.9
GR  95.4 10192.7    95.4 10225.4    84.0 10298.8    82.3 10331.1    72.7 10370.9
GR  69.5 10371.2    65.5 10380.5    61.2 10399.5    58.7 10418.5    58.6 10441.3
GR  55.0 10471.2    56.2 10479.6    56.3 10499.0    55.0 10511.4    55.2 10530.3
GR  58.7 10539.6    62.4 10569.7    72.8 10590.2    72.9 10605.1   103.8 10654.0
GR 103.8 10698.3   103.8 10798.3   103.8 10849.6   103.8 10868.9   104.8 13868.9
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GR 124.8 13870.9
X1328.30     35.   10264   10650    2798    2798    2798
X3    10
GR 121.8  7063.0   101.8  7065.0   100.8 10065.0   104.6 10115.0   104.5 10151.0
GR 100.6 10198.0   100.6 10264.0    90.5 10298.0    76.5 10313.0    71.7 10328.0
GR  67.6 10348.0    67.6 10358.0    65.6 10369.0    64.8 10379.0    65.6 10388.0
GR  65.5 10401.0    64.5 10407.0    65.6 10419.0    64.6 10429.0    64.8 10439.0
GR  63.6 10449.0    63.8 10458.0    62.3 10469.0    62.5 10560.0    64.4 10570.0
GR  77.3 10598.0    87.3 10629.0    98.3 10649.0    98.3 10650.0    99.2 10655.0
GR  98.3 10751.0    98.3 10801.0    98.3 10856.0    99.3 13856.0   119.3 13858.0
X1328.49     39.   10274   10675    1003    1003    1003
X3    10
GR 124.0  7072.0   104.0  7074.0   103.0 10074.0   103.0 10096.0   103.0 10117.0
GR 103.0 10143.0   103.0 10173.0   103.0 10202.0   103.0 10212.0   103.6 10247.0
GR 103.0 10274.0    93.1 10302.0    89.8 10315.0    77.0 10345.0    76.1 10360.0
GR  73.0 10370.0    67.1 10399.0    63.3 10436.0    62.9 10460.0    61.1 10468.0
GR  61.1 10510.0    61.9 10519.0    59.0 10529.0    58.0 10538.0    58.1 10590.0
GR  59.0 10599.0    67.4 10630.0    83.6 10647.0    85.2 10659.0    93.9 10675.0
GR  94.4 10685.0    95.8 10699.0    98.4 10715.0    99.1 10734.0   102.5 10765.0
GR 100.4 10848.0    98.6 10877.0    99.6 13877.0   119.6 13879.0
X1329.40     40.   10335   10717    4808    4808    4808
X3    10
GR 118.3  7035.0    98.3  7037.0    97.3 10037.0    97.3 10193.0    99.1 10222.0
GR 100.4 10277.0    98.3 10298.0    99.6 10318.0    97.3 10335.0    92.5 10349.0
GR  86.7 10360.0    82.9 10373.0    71.9 10410.0    68.1 10419.0    65.0 10429.0
GR  55.9 10448.0    53.1 10476.0    53.0 10518.0    54.9 10529.0    56.0 10538.0
GR  53.1 10569.0    54.1 10578.0    56.0 10588.0    56.0 10597.0    59.2 10609.0
GR  60.0 10618.0    63.3 10628.0    64.0 10633.0    65.3 10639.0    67.7 10647.0
GR  71.9 10658.0    73.8 10668.0    76.9 10673.0    84.7 10693.0   102.6 10717.0
GR 103.4 10750.0   103.0 10800.0   102.6 10916.0   103.6 13916.0   123.6 13918.0
X1329.60     43.   10238   10675    1056    1056    1056
X3    10
GR 124.1  7039.0   104.1  7041.0   103.1 10041.0   103.1 10095.0   103.1 10146.0
GR 103.1 10172.0   103.1 10186.0   103.1 10238.0    98.6 10242.0    89.4 10255.0
GR  85.5 10270.0    80.0 10288.0    76.6 10330.0    76.2 10339.0    68.5 10359.0
GR  59.5 10390.0    60.3 10400.0    62.6 10410.0    63.5 10419.0    63.4 10432.0
GR  62.4 10440.0    62.5 10449.0    61.4 10460.0    61.4 10469.0    62.5 10479.0
GR  62.4 10490.0    63.6 10499.0    64.1 10531.0    62.7 10539.0    62.9 10561.0
GR  61.7 10569.0    62.8 10580.0    67.4 10601.0    70.0 10609.0    85.5 10636.0
GR  88.0 10658.0    90.9 10675.0    90.9 10739.0    90.9 10751.0    95.6 10797.0
GR  97.1 10812.0    98.1 13812.0   118.1 13814.0
X1329.80     35.   10266   10740    1056    1056    1056
X3    10
GR 121.4  7064.0   101.4  7066.0   100.4 10066.0   100.4 10096.0   100.4 10175.0
GR 100.4 10209.0   100.4 10266.0    90.9 10285.0    90.0 10312.0    84.9 10324.0
GR  77.3 10338.0    77.3 10393.0    73.0 10409.0    70.0 10419.0    65.7 10429.0
GR  64.0 10439.0    61.0 10448.0    57.2 10488.0    57.0 10499.0    67.4 10599.0
GR  67.1 10610.0    68.9 10630.0    72.7 10649.0    77.3 10665.0    81.9 10677.0
GR  90.4 10705.0    96.0 10740.0    96.1 10756.0    96.0 10781.0   100.8 10843.0
GR  97.3 10866.0    96.0 10893.0    96.0 10940.0    97.0 13940.0   117.0 13942.0
X1330.40     34. 10233.3 10576.5    3168    3168    3168
X3    10
GR 118.5  7098.9    98.5  7100.9    97.5 10100.9    97.5 10153.2   101.1 10197.9
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GR 100.7 10216.3    97.5 10233.3    93.2 10235.4    89.1 10252.4    82.2 10258.1
GR  77.8 10282.6    68.0 10308.7    65.2 10319.2    63.9 10329.2    65.8 10340.6
GR  64.0 10350.1    63.9 10370.5    65.2 10380.0    65.2 10408.9    63.8 10419.4
GR  64.1 10429.8    63.1 10440.3    63.0 10480.2    68.7 10507.9    75.9 10520.8
GR  77.1 10530.7    79.3 10531.2    82.8 10548.0    90.1 10549.9    95.6 10568.2
GR 105.6 10576.5   105.6 10699.0   106.6 13699.0   126.6 13701.0
X1330.61     33.   10200   10689    1108    1108    1108
X3    10
GR 122.8  7098.0   102.8  7100.0   101.8 10100.0   101.8 10146.0   101.8 10200.0
GR  93.0 10208.0    76.9 10261.0    69.7 10289.0    65.9 10307.0    64.8 10318.0
GR  64.9 10348.0    63.8 10356.0    64.0 10428.0    65.1 10437.0    65.0 10466.0
GR  66.0 10477.0    65.9 10500.0    68.0 10517.0    71.0 10529.0    72.8 10538.0
GR  77.1 10545.0    90.2 10548.0    91.8 10555.0    89.3 10565.0    92.5 10585.0
GR  91.3 10599.0    91.2 10613.0    93.9 10654.0    97.3 10673.0   103.1 10689.0
GR 103.1 10797.0   104.1 13797.0   124.1 13799.0
X1330.82     34.   10209   10561    1108    1108    1108
X3    10
GR 117.4  7110.0    97.4  7112.0    96.4 10112.0    96.4 10122.0    96.4 10133.0
GR  96.4 10165.0    96.4 10195.0    96.4 10209.0    87.5 10231.0    85.0 10270.0
GR  77.2 10288.0    73.9 10299.0    72.1 10309.0    68.9 10340.0    67.1 10348.0
GR  66.9 10369.0    65.1 10379.0    64.0 10389.0    63.9 10400.0    63.0 10409.0
GR  63.0 10439.0    66.2 10470.0    70.0 10488.0    71.1 10498.0    74.9 10517.0
GR  75.0 10529.0    77.4 10540.0    95.8 10561.0    95.8 10599.0    95.8 10635.0
GR  95.8 10656.0    95.8 10698.0    96.8 13698.0   116.8 13700.0
X1331.40     29.   10245   10589    3061    3061    3061
X3    10
GR 116.4  7148.0    96.4  7150.0    95.4 10150.0    93.6 10185.0    96.2 10217.0
GR  93.4 10222.0    88.2 10245.0    77.6 10258.0    74.3 10266.0    71.9 10280.0
GR  67.9 10318.0    65.8 10329.0    64.8 10338.0    65.0 10359.0    63.9 10368.0
GR  64.0 10410.0    65.1 10420.0    65.1 10449.0    69.4 10467.0    75.0 10482.0
GR  77.5 10500.0    91.5 10562.0    96.9 10574.0    98.8 10589.0    98.8 10612.0
GR  98.8 10645.0    98.8 10696.0    99.8 13696.0   119.8 13698.0
X1331.60     32.   10207   10629    1056    1056    1056
X3    10
GR 116.4  7107.0    96.4  7109.0    95.4 10109.0    96.9 10114.0    95.5 10146.0
GR  95.4 10207.0    75.7 10232.0    75.0 10238.0    75.8 10245.0    81.6 10249.0
GR  82.6 10265.0    77.0 10271.0    75.2 10286.0    75.9 10295.0    82.9 10311.0
GR  74.7 10322.0    62.7 10351.0    58.8 10373.0    56.7 10394.0    56.5 10412.0
GR  69.2 10532.0    72.9 10544.0    74.6 10547.0    80.1 10567.0    87.0 10579.0
GR  88.4 10609.0    97.1 10629.0    97.1 10651.0    97.1 10700.0    97.1 10751.0
GR  98.1 13751.0   118.1 13753.0
X1332.00     34.   10140   10535    2112    2112    2112
X3    10
GR 121.2  7035.0   101.2  7037.0   100.2 10037.0   100.2 10064.0   100.2 10095.0
GR 100.2 10121.0   100.2 10125.0   100.2 10140.0    91.7 10167.0    88.9 10177.0
GR  83.0 10194.0    74.6 10214.0    70.7 10216.0    66.0 10238.0    65.1 10247.0
GR  64.8 10286.0    64.0 10296.0    64.0 10325.0    62.7 10338.0    62.7 10368.0
GR  65.1 10387.0    64.7 10397.0    67.0 10407.0    68.0 10417.0    73.1 10428.0
GR  81.1 10467.0    84.9 10484.0    88.8 10496.0    92.6 10521.0   102.8 10535.0
GR 102.8 10559.0   102.8 10645.0   103.8 13645.0   123.8 13647.0
X1332.40     31. 10269.7 10655.3    2112    2112    2112
X3    10
GR 123.4  7142.9   103.4  7144.9   102.4 10144.9   102.4 10193.1   102.7 10247.3
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GR 102.4 10269.7    91.0 10285.8    83.9 10309.2    81.6 10311.3    73.3 10366.1
GR  70.1 10378.8    64.3 10406.5    63.1 10417.1    63.6 10427.5    62.2 10436.5
GR  62.3 10488.4    63.5 10498.2    63.3 10508.7    65.2 10528.0    67.6 10538.4
GR  68.4 10548.3    74.8 10581.3    88.6 10615.3    94.0 10624.5   100.2 10648.5
GR 105.3 10655.3   105.3 10693.2   105.3 10708.1   105.3 10756.5   106.3 13756.5
GR 126.3 13758.5
X1332.60     37.   10224   10609    1056    1056    1056
X3    10
GR 123.6  7096.0   103.6  7098.0   102.6 10098.0   102.6 10148.0   103.0 10197.0
GR 102.6 10224.0    88.9 10240.0    84.0 10258.0    80.7 10263.0    74.4 10300.0
GR  66.7 10319.0    64.6 10330.0    62.8 10348.0    62.9 10359.0    61.7 10368.0
GR  61.9 10379.0    60.8 10389.0    60.8 10399.0    62.0 10407.0    61.9 10420.0
GR  64.9 10448.0    64.9 10459.0    67.9 10488.0    80.9 10514.0    91.1 10533.0
GR  93.7 10550.0    92.7 10560.0    94.0 10585.0    98.2 10609.0    99.6 10639.0
GR  98.2 10666.0    98.2 10699.0    98.2 10719.0    98.4 10759.0    98.2 10796.0
GR  99.2 13796.0   119.2 13798.0
X1332.80     37.   10203   10606    1056    1056    1056
X3    10
GR 122.3  7098.0   102.3  7100.0   101.3 10100.0   101.3 10154.0   101.3 10203.0
GR  94.9 10206.0    92.8 10215.0    79.4 10244.0    74.6 10248.0    68.2 10268.0
GR  68.8 10279.0    62.8 10289.0    61.9 10298.0    60.2 10310.0    60.3 10340.0
GR  59.1 10347.0    62.1 10358.0    62.0 10369.0    64.1 10378.0    63.1 10389.0
GR  63.0 10398.0    64.4 10409.0    64.0 10428.0    65.5 10440.0    65.1 10448.0
GR  66.7 10460.0    66.4 10468.0    67.1 10477.0    80.3 10531.0   102.0 10578.0
GR 102.9 10597.0   105.9 10606.0   105.9 10646.0   105.9 10696.0   105.9 10746.0
GR 106.9 13746.0   126.9 13748.0
X1333.00     29.   10227   10663    1056    1056    1056
X3    10
GR 121.9  7122.0   101.9  7124.0   100.9 10124.0   100.1 10227.0    93.0 10236.0
GR  89.7 10245.0    85.6 10250.0    85.2 10257.0    82.6 10261.0    71.2 10289.0
GR  71.4 10310.0    68.1 10321.0    64.4 10330.0    62.4 10340.0    60.4 10362.0
GR  60.4 10392.0    67.4 10460.0    67.2 10470.0    68.3 10480.0    72.7 10491.0
GR  75.0 10500.0    80.8 10533.0    86.9 10551.0    96.4 10600.0   105.2 10663.0
GR 107.0 10700.0   105.5 10748.0   106.5 13748.0   126.5 13750.0
X1333.20     29.   10193   10762    1056    1056    1056
X3    10
GR 118.3  7123.0    98.3  7125.0    97.3 10125.0    95.7 10175.0    95.7 10193.0
GR  85.1 10229.0    80.6 10273.0    78.3 10323.0    80.6 10352.0    86.3 10375.0
GR  82.2 10418.0    80.2 10429.0    74.6 10443.0    67.1 10468.0    65.2 10478.0
GR  63.0 10498.0    64.3 10510.0    64.1 10558.0    65.1 10567.0    65.2 10630.0
GR  66.2 10638.0    66.2 10648.0    69.9 10687.0    74.7 10710.0    92.7 10747.0
GR 104.8 10762.0   104.8 10896.0   105.8 13896.0   125.8 13898.0
X1333.80     44.   10174   10718    3168    3168    3168
X3    10
GR 123.5  7058.0   103.5  7060.0   102.5 10060.0   105.2 10133.0   102.6 10173.0
GR 102.5 10174.0    95.5 10183.0    92.1 10189.0    87.9 10205.0    80.4 10216.0
GR  74.3 10220.0    71.8 10229.0    68.0 10248.0    65.1 10259.0    64.1 10268.0
GR  62.0 10279.0    63.1 10289.0    63.2 10299.0    62.0 10308.0    61.9 10338.0
GR  62.9 10348.0    62.7 10359.0    63.8 10370.0    63.7 10380.0    64.7 10388.0
GR  64.9 10429.0    66.0 10440.0    66.0 10448.0    67.0 10458.0    69.8 10467.0
GR  74.2 10479.0    77.7 10493.0    85.2 10514.0    86.4 10521.0    86.2 10558.0
GR  90.0 10618.0    94.6 10656.0    99.1 10700.0   104.0 10718.0   104.5 10750.0
GR 104.5 10801.0   107.5 10849.0   108.5 13849.0   128.5 13851.0
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X1334.20     32.   10149   10746    2112    2112    2112
X3    10
GR 128.5  7046.0   108.5  7048.0   107.5 10048.0   106.3 10149.0   101.1 10158.0
GR  95.3 10181.0    94.1 10199.0    90.3 10208.0    89.5 10249.0    93.7 10304.0
GR  91.6 10323.0    87.0 10388.0    83.4 10405.0    80.7 10434.0    77.5 10444.0
GR  73.3 10478.0    71.3 10489.0    62.2 10579.0    63.2 10588.0    63.1 10610.0
GR  66.2 10639.0    68.4 10650.0    69.3 10660.0    78.9 10688.0    86.6 10702.0
GR  88.4 10710.0    97.5 10740.0   102.0 10746.0   102.0 10800.0   102.0 10880.0
GR 103.0 13880.0   123.0 13882.0
X1334.40     31.   10209   10585    1056    1056    1056
X3    10
GR 127.0  7104.0   107.0  7106.0   106.0 10106.0   105.3 10109.0   104.8 10120.0
GR 100.9 10130.0   102.1 10149.0   103.6 10181.0   101.3 10185.0    99.4 10209.0
GR  94.1 10214.0    79.3 10248.0    72.9 10287.0    70.1 10317.0    69.8 10328.0
GR  65.7 10368.0    65.7 10419.0    64.3 10431.0    65.6 10439.0    66.0 10478.0
GR  68.9 10509.0    71.6 10519.0    73.7 10522.0    75.3 10532.0    81.0 10557.0
GR  86.5 10569.0    90.7 10585.0    96.5 10649.0    98.6 10697.0    99.6 13697.0
GR 119.6 13699.0
X1334.80     36.   10204   10544    2112    2112    2112
X3    10
GR 129.4  7102.0   109.4  7104.0   108.4 10104.0   107.6 10159.0   107.5 10204.0
GR  98.2 10210.0    94.8 10220.0    89.2 10227.0    81.9 10243.0    75.5 10272.0
GR  74.4 10289.0    71.9 10300.0    69.0 10311.0    67.1 10320.0    64.0 10351.0
GR  64.0 10359.0    63.0 10372.0    63.0 10391.0    64.0 10400.0    63.8 10412.0
GR  64.8 10421.0    64.7 10433.0    65.8 10443.0    65.7 10472.0    67.0 10483.0
GR  72.9 10500.0    74.6 10509.0    77.3 10521.0    85.6 10540.0    90.1 10544.0
GR  93.5 10571.0    93.1 10591.0    96.2 10622.0   101.2 10694.0   102.2 13694.0
GR 122.2 13696.0
X1335.00     30. 10202.4 10564.3    1056    1056    1056
X3    10
GR 125.3  7098.6   105.3  7100.6   104.3 10100.6   102.7 10202.4    76.3 10285.3
GR  74.2 10285.4    68.0 10299.0    59.5 10328.5    55.1 10348.7    55.0 10360.2
GR  53.2 10369.1    53.0 10399.6    54.2 10409.6    54.1 10419.1    56.2 10440.7
GR  58.5 10449.8    59.2 10459.8    61.3 10470.9    63.9 10479.0    65.8 10489.1
GR  75.7 10508.0    82.3 10515.4    87.0 10525.6    93.9 10530.9    97.5 10540.1
GR 103.2 10564.3   104.6 10610.3   103.2 10659.7   104.2 13659.7   124.2 13661.7
X1335.58     42. 10197.2 10655.7    3062    3062    3062
X3    10
GR 123.8  7095.0   103.8  7097.0   102.8 10097.0   102.8 10197.2    92.2 10215.1
GR  90.0 10227.0    84.2 10246.7    83.1 10252.6    85.2 10265.7    92.5 10283.9
GR  90.2 10303.3    80.2 10310.8    80.3 10318.8    73.9 10319.5    67.6 10329.2
GR  62.8 10338.9    59.9 10348.8    59.6 10369.7    60.6 10378.7    57.9 10389.1
GR  57.9 10399.5    60.0 10409.6    62.7 10439.1    65.0 10449.7    64.9 10469.2
GR  66.1 10478.7    66.0 10488.6    66.9 10499.2    67.0 10519.1    68.0 10528.6
GR  74.9 10547.9    78.6 10556.5    81.7 10568.1    95.0 10592.6    95.8 10601.1
GR  94.2 10630.5   100.1 10655.7   100.1 10685.0   100.1 10703.0   100.1 10746.2
GR 101.1 13746.2   121.1 13748.2
X1335.73     45. 10233.4 10637.2     792     792     792
X3    10
GR 120.5  7127.3   100.5  7129.3    99.5 10129.3    99.5 10177.8    99.5 10194.4
GR  99.5 10233.4    94.1 10237.5    90.4 10251.7    86.4 10252.9    80.5 10270.9
GR  76.9 10273.6    75.8 10282.0    74.4 10282.9    70.9 10300.1    70.0 10310.0
GR  67.9 10321.3    68.0 10329.8    66.0 10339.1    63.8 10359.9    63.9 10370.4
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Subsegment 080101
Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

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GR  63.0 10379.8    63.0 10410.2    64.0 10420.8    64.0 10440.8    65.0 10449.3
GR  65.0 10480.3    66.8 10489.4    70.0 10500.6    69.2 10510.5    74.3 10530.4
GR  83.9 10541.6    87.2 10550.9    87.3 10557.4    88.1 10560.4    93.7 10577.3
GR  90.2 10584.0    88.1 10600.3   100.4 10637.2   101.1 10647.7   101.2 10654.7
GR 100.4 10707.8   100.4 10741.1   100.4 10748.2   101.4 13748.2   121.4 13750.2
X1336.20     36. 10233.7 10572.9    2481    2481    2481
X3    10
GR 122.2  7074.9   102.2  7076.9   101.2 10076.9   101.6 10098.8   102.6 10113.2
GR  97.9 10129.3   100.3 10174.1    95.6 10189.7    93.6 10233.7    85.2 10243.5
GR  74.7 10264.3    67.6 10280.5    59.9 10321.2    55.9 10340.8    53.9 10360.3
GR  53.7 10380.2    55.0 10390.6    57.0 10400.0    57.8 10409.5    59.9 10418.8
GR  60.7 10428.3    67.1 10449.5    74.4 10459.1    76.3 10468.5    95.2 10496.7
GR  99.1 10510.0   103.0 10558.1   108.3 10572.9   108.5 10599.3   108.3 10647.6
GR 109.3 10684.7   109.2 10684.8   109.3 10684.9   109.2 10685.0   110.2 13685.0
GR 130.2 13687.0
X1337.00     40. 10157.8 10803.6    4224    4224    4224
X3    10
GR 122.1  7046.7   102.1  7048.7   101.1 10048.7   100.2 10157.8    88.3 10178.3
GR  80.9 10230.1    76.5 10239.1    74.3 10251.5    73.2 10267.0    70.1 10276.0
GR  70.1 10308.8    67.7 10316.8    67.0 10325.3    67.2 10338.7    66.0 10347.7
GR  66.7 10357.1    67.2 10418.3    66.1 10426.8    66.4 10446.7    65.1 10456.7
GR  65.1 10478.1    61.1 10518.4    62.3 10526.4    62.2 10536.8    66.2 10546.8
GR  68.1 10556.7    75.1 10572.1    77.3 10582.0    80.3 10584.5    84.9 10605.9
GR  93.1 10629.7    99.5 10695.8   109.7 10744.6   134.7 10796.1   136.1 10803.6
GR 141.0 10804.0   140.6 10808.0   141.3 10843.4   142.3 13843.4   162.3 13845.4
X1337.20     27.   10234   10614    1056    1056    1056
X3    10
GR 118.8  7130.0    98.8  7132.0    97.8 10132.0   100.2 10182.0    93.7 10234.0
GR  84.7 10256.0    77.1 10267.0    74.6 10278.0    71.4 10287.0    69.6 10298.0
GR  65.6 10308.0    65.5 10328.0    63.5 10348.0    63.6 10368.0    62.6 10376.0
GR  63.8 10388.0    67.3 10408.0    74.8 10425.0    84.4 10475.0    95.8 10499.0
GR 105.1 10535.0   134.5 10591.0   145.4 10614.0   149.6 10637.0   148.2 10646.0
GR 149.2 13646.0   169.2 13648.0
X1337.40     31.   10192   10599    1056    1056    1056
X3    10
GR 120.8  7123.0   100.8  7125.0    99.8 10125.0    98.3 10171.0    93.8 10192.0
GR  81.1 10211.0    74.1 10226.0    69.1 10236.0    61.6 10260.0    59.1 10267.0
GR  57.0 10277.0    56.0 10287.0    58.0 10307.0    57.8 10317.0    61.9 10336.0
GR  62.7 10346.0    65.9 10357.0    65.7 10366.0    74.7 10387.0    76.4 10399.0
GR  84.9 10417.0    79.0 10425.0    95.2 10477.0   100.5 10500.0   107.9 10544.0
GR 132.5 10599.0   134.1 10608.0   136.5 10646.0   135.8 10661.0   136.8 13661.0
GR 156.8 13663.0
X1337.50     41.   10221   10737     528     528     528
X3    10
GR 122.7  7022.0   102.7  7024.0   101.7 10024.0   103.0 10050.0   101.1 10101.0
GR 103.5 10151.0   104.6 10186.0   100.9 10200.0   100.3 10221.0    87.3 10243.0
GR  81.9 10257.0    76.1 10269.0    75.1 10279.0    66.0 10300.0    62.0 10319.0
GR  61.8 10330.0    62.9 10339.0    65.9 10349.0    66.8 10360.0    68.7 10370.0
GR  71.6 10380.0    72.7 10389.0    72.8 10420.0    71.6 10431.0    71.7 10449.0
GR  73.6 10459.0    75.7 10472.0    79.1 10475.0    93.7 10577.0    93.9 10665.0
GR  97.1 10677.0    97.7 10682.0    98.4 10708.0   109.5 10737.0   110.8 10752.0
GR 110.7 10769.0   116.5 10781.0   116.2 10803.0   116.8 10882.0   117.8 13882.0
GR 137.8 13884.0
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Subsegment 080101
Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

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X1337.70     26.   10264   10587    1056    1056    1056
X3    10
GR 125.2  7097.0   105.2  7099.0   104.2 10099.0   104.2 10197.0   104.2 10264.0
GR  95.4 10271.0    91.4 10273.0    86.7 10300.0    76.1 10346.0    70.2 10367.0
GR  64.2 10397.0    63.1 10407.0    62.9 10428.0    64.1 10437.0    63.9 10486.0
GR  68.0 10527.0    71.9 10537.0    76.5 10544.0    89.1 10565.0    96.2 10583.0
GR 101.3 10587.0   101.3 10698.0   101.3 10738.0   101.3 10793.0   102.3 13793.0
GR 122.3 13795.0
X1337.90     36.   10291   10651    1056    1056    1056
X3    10
GR 121.1  7060.0   101.1  7062.0   100.1 10062.0   101.4 10099.0    97.3 10151.0
GR 103.2 10260.0    97.3 10291.0    81.2 10317.0    76.4 10337.0    74.0 10350.0
GR  66.9 10370.0    63.1 10381.0    61.1 10391.0    59.1 10411.0    57.3 10420.0
GR  54.8 10441.0    55.0 10450.0    53.9 10461.0    55.8 10471.0    58.2 10490.0
GR  57.9 10521.0    58.9 10530.0    63.1 10552.0    64.1 10560.0    63.9 10571.0
GR  88.4 10632.0   101.7 10651.0   101.7 10701.0   101.7 10712.0   101.7 10738.0
GR 101.7 10746.0   101.7 10750.0   101.7 10765.0   101.7 10850.0   102.7 13850.0
GR 122.7 13852.0
X1338.10     34.   10255   10613    1056    1056    1056
X3    10
GR 124.9  7044.0   104.9  7046.0   103.9 10046.0   103.9 10255.0    76.3 10287.0
GR  68.8 10299.0    67.0 10310.0    63.9 10319.0    62.0 10329.0    59.0 10339.0
GR  58.9 10350.0    55.1 10389.0    55.0 10401.0    56.9 10410.0    66.3 10500.0
GR  66.0 10509.0    67.1 10520.0    71.1 10539.0    76.2 10548.0    95.3 10586.0
GR  97.6 10604.0    99.8 10613.0    99.8 10632.0    99.8 10661.0    99.8 10675.0
GR  99.8 10700.0    99.8 10729.0    99.8 10746.0    99.8 10754.0    99.8 10788.0
GR  99.8 10800.0    99.8 10813.0   100.8 13813.0   120.8 13815.0
X1338.30     32.   10217   10592    1056    1056    1056
X3    10
GR 124.6  7046.0   104.6  7048.0   103.6 10048.0   103.6 10078.0   103.6 10098.0
GR 103.6 10148.0   103.6 10217.0    89.8 10236.0    86.9 10242.0    76.4 10249.0
GR  63.2 10268.0    59.9 10279.0    61.0 10289.0    60.9 10298.0    63.0 10308.0
GR  66.0 10317.0    68.1 10327.0    68.0 10340.0    73.3 10388.0    73.1 10408.0
GR  74.2 10416.0    74.1 10498.0    76.5 10517.0    95.1 10554.0   100.6 10571.0
GR 104.6 10592.0   104.6 10613.0   104.6 10636.0   104.6 10698.0   104.6 10799.0
GR 105.6 13799.0   125.6 13801.0
X1338.40     34.   10278   10644     528     528     528
X3    10
GR 137.5  7086.0   117.5  7088.0   116.5 10088.0   116.0 10112.0   105.0 10138.0
GR 105.0 10248.0   105.0 10278.0    89.6 10299.0    76.3 10330.0    73.3 10338.0
GR  71.3 10347.0    68.3 10358.0    67.2 10369.0    67.1 10388.0    65.1 10398.0
GR  67.1 10409.0    67.1 10418.0    66.1 10429.0    67.1 10439.0    67.0 10448.0
GR  68.9 10468.0    69.0 10489.0    71.2 10508.0    68.9 10528.0    70.2 10537.0
GR  69.9 10547.0    71.0 10556.0    76.3 10578.0   103.2 10644.0   103.2 10774.0
GR 103.2 10815.0   103.2 10843.0   104.2 13843.0   124.2 13845.0
EJ
T1      OUACHITA RIVER – DISCHARGES AND FLOOD CALIBRATIONS
T2      ST.LOUIS DISTRICT COE FEB 1975 100’ LEVEE, 3000’ NO LEVEE
T3      DISCHARGE RATING PROFILE AND HISTORICAL FLOODS
J1   -10       3                                                    15.78
J2     2            -1.
T1      OUACHITA RIVER – DISCHARGES AND FLOOD CALIBRATIONS
T2      ST.LOUIS DISTRICT COE FEB 1975 100’ LEVEE, 3000’ NO LEVEE
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Subsegment 080101
Originated: January 31, 2002
Revised: 4-12-02, 5-7-02, 7-31-02

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T3      DISCHARGE RATING PROFILE AND HISTORICAL FLOODS
J1   -10       4                                                    16.48
J2     3             -1.
T1      OUACHITA RIVER – DISCHARGES AND FLOOD CALIBRATIONS
T2      ST.LOUIS DISTRICT COE FEB 1975 100’ LEVEE, 3000’ NO LEVEE
T3      DISCHARGE RATING PROFILE AND HISTORICAL FLOODS
J1   -10       5                                                    17.51
J2     4             -1.
T1      OUACHITA RIVER – DISCHARGES AND FLOOD CALIBRATIONS
T2      ST.LOUIS DISTRICT COE FEB 1975 100’ LEVEE, 3000’ NO LEVEE
T3      DISCHARGE RATING PROFILE AND HISTORICAL FLOODS
J1   -10       6                                                    19.01
J2     5             -1.
ER
```

HEC-2 OUTPUT FILE

```
1*******************************************                                                  ***************************************
 *  HEC-2 WATER SURFACE PROFILES            *                                                  *  U.S. ARMY CORPS OF ENGINEERS       *
 *                                          *                                                  *  HYDROLOGIC ENGINEERING CENTER      *
 *  Version   4.6.2;  May 1991              *                                                  *  609 SECOND STREET, SUITE D         *
 *                                          *                                                  *  DAVIS, CALIFORNIA 95616-4687       *
 *  RUN DATE    27AUG01    TIME   15:45:18  *                                                  *          (916) 756-1104             *
 *******************************************                                                  ***************************************



                                                X     X  XXXXXXX   XXXXX             XXXXX
                                                X     X  X        X     X            X     X
                                                X     X  X        X                       X
                                                XXXXXXX  XXXX     X          XXXXX    XXXXX
                                                X     X  X        X                  X
                                                X     X  X        X     X            X
                                                X     X  XXXXXXX   XXXXX             XXXXXXX
1
   27AUG01      15:45:18                                                                                                  PAGE    1



                                                                                    THIS RUN EXECUTED 27AUG01    15:45:18
 ************************************
  HEC-2 WATER SURFACE PROFILES

  Version   4.6.2;  May 1991
 ************************************


 T1      OUACHITA RIVER - DISCHARGES AND FLOOD CALIBRATIONS
 T2      ST.LOUIS DISTRICT COE FEB 1975 100' LEVEE, 3000' NO LEVEE
 T3      DISCHARGE PROFILES AT VARIOUS LOW FLOWS

 J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

      -10         2                                                                 15.29

 J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN       ALLDC     IBW       CHNIM      ITRACE

      1.                 -1.


 J3  VARIABLE CODES FOR SUMMARY PRINTOUT

      38         43          1         25          4          8         39         26          6         68
      17

 J5  LPRNT    NUMSEC                    ********REQUESTED SECTION NUMBERS********
```

```
     -10       -10
1
    27AUG01      15:45:18                                                                PAGE    2


   3649 NUMBER SECTIONS EXCEED LIMIT
1
    27AUG01      15:45:18                                                                PAGE    3


 T1      OUACHITA RIVER - DISCHARGES AND FLOOD CALIBRATIONS
 T2      ST.LOUIS DISTRICT COE FEB 1975 100' LEVEE, 3000' NO LEVEE
 T3      DISCHARGE RATING PROFILE AND HISTORICAL FLOODS

 J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

      -10         3                                                          15.78

 J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

       2                -1.

   3649 NUMBER SECTIONS EXCEED LIMIT
1
    27AUG01      15:45:18                                                                PAGE    4


 T1      OUACHITA RIVER - DISCHARGES AND FLOOD CALIBRATIONS
 T2      ST.LOUIS DISTRICT COE FEB 1975 100' LEVEE, 3000' NO LEVEE
 T3      DISCHARGE RATING PROFILE AND HISTORICAL FLOODS

 J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

      -10         4                                                          16.48

 J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

       3                -1.

   3649 NUMBER SECTIONS EXCEED LIMIT
1
    27AUG01      15:45:18                                                                PAGE    5


 T1      OUACHITA RIVER - DISCHARGES AND FLOOD CALIBRATIONS
 T2      ST.LOUIS DISTRICT COE FEB 1975 100' LEVEE, 3000' NO LEVEE
 T3      DISCHARGE RATING PROFILE AND HISTORICAL FLOODS

 J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

      -10         5                                                          17.51

 J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE
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```
       4                -1.

   3649 NUMBER SECTIONS EXCEED LIMIT
1
    27AUG01      15:45:18                                                                    PAGE    6


 T1      OUACHITA RIVER - DISCHARGES AND FLOOD CALIBRATIONS
 T2      ST.LOUIS DISTRICT COE FEB 1975 100' LEVEE, 3000' NO LEVEE
 T3      DISCHARGE RATING PROFILE AND HISTORICAL FLOODS

 J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

      -10         6                                                          19.01

 J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

       5               -1.

   3649 NUMBER SECTIONS EXCEED LIMIT
1
    27AUG01      15:45:18                                                                    PAGE    7



                                                                  THIS RUN EXECUTED 27AUG01    15:46:36
 ************************************
  HEC-2 WATER SURFACE PROFILES

  Version   4.6.2;  May 1991
 ************************************


 NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST


 DISCHARGE PROFILES AT VA

 SUMMARY PRINTOUT


       SECNO       Q       CWSEL     AREA     TOPWID     DEPTH     XLCH       VCH      TIME      FRCH     K*XNCH

         .000    648.00     15.29  22603.27    650.08     59.59       .00       .03       .00       .00     36.00
         .000   1080.00     15.78  22922.49    652.89     60.08       .00       .05       .00       .00     36.00
         .000   1800.00     16.48  23381.27    657.95     60.78       .00       .08       .00       .00     36.00
         .000   3000.00     17.51  24062.82    665.46     61.81       .00       .12       .00       .00     36.00
         .000   5000.00     19.01  25069.21    676.39     63.31       .00       .20       .00       .01     36.00

 *       .200    648.00     15.29   9458.81    609.23     22.39   1056.00       .07      4.28       .00     36.00
 *       .200   1080.00     15.78   9758.26    612.99     22.88   1056.00       .11      2.65       .00     36.00
 *       .200   1800.00     16.48  10189.69    619.68     23.58   1056.00       .18      1.66       .01     36.00
```

*	.200	3000.00	17.51	10833.09	629.57	24.61	1056.00	.28	1.06	.01	36.00
*	.200	5000.00	19.01	11788.33	643.98	26.11	1056.00	.42	.69	.02	36.00
	.400	648.00	15.29	10090.74	586.58	26.39	1056.00	.06	8.85	.00	36.00
	.400	1080.00	15.78	10379.08	590.08	26.88	1056.00	.10	5.47	.00	36.00
	.400	1800.00	16.48	10793.63	594.29	27.58	1056.00	.17	3.42	.01	36.00
	.400	3000.00	17.51	11408.99	600.49	28.61	1056.00	.26	2.17	.01	36.00
	.400	5000.00	19.01	12316.56	609.51	30.11	1056.00	.41	1.41	.02	36.00
	.600	648.00	15.29	10235.52	604.21	28.29	1056.00	.06	13.48	.00	36.00
	.600	1080.00	15.78	10532.43	607.21	28.78	1056.00	.10	8.33	.00	36.00
	.600	1800.00	16.48	10959.16	611.33	29.48	1056.00	.16	5.21	.01	36.00
	.600	3000.00	17.51	11593.00	618.34	30.51	1056.00	.26	3.31	.01	36.00
	.600	5000.00	19.01	12529.31	628.55	32.01	1056.00	.40	2.15	.02	36.00
	.800	648.00	15.29	10179.52	591.16	27.19	1056.00	.06	18.09	.00	36.00
	.800	1080.00	15.78	10470.40	595.47	27.68	1056.00	.10	11.17	.00	36.00
	.800	1800.00	16.48	10889.41	600.24	28.38	1056.00	.17	6.98	.01	36.00
	.800	3000.00	17.51	11511.60	606.32	29.41	1056.00	.26	4.43	.01	36.00
	.800	5000.00	19.02	12429.43	615.24	30.92	1056.00	.40	2.88	.02	36.00

1

SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
1.000	648.00	15.29	10323.12	553.47	26.09	1056.00	.06	22.76	.00	36.00
1.000	1080.00	15.78	10595.27	556.57	26.58	1056.00	.10	14.05	.00	36.00
1.000	1800.00	16.48	10986.95	561.37	27.28	1056.00	.16	8.77	.01	36.00
1.000	3000.00	17.51	11570.06	568.88	28.31	1056.00	.26	5.57	.01	36.00
1.000	5000.00	19.02	12433.74	579.82	29.82	1056.00	.40	3.61	.02	36.00
1.400	648.00	15.29	8649.32	474.49	27.29	2112.00	.07	30.59	.00	36.00
1.400	1080.00	15.78	8883.27	479.41	27.78	2112.00	.12	18.88	.00	36.00
1.400	1800.00	16.48	9220.65	482.74	28.48	2112.00	.20	11.78	.01	36.00
1.400	3000.00	17.51	9721.91	488.62	29.51	2112.00	.31	7.47	.01	36.00
1.400	5000.00	19.02	10465.46	499.05	31.02	2112.00	.48	4.84	.02	36.00
1.600	648.00	15.29	9787.69	526.87	34.09	1056.00	.07	35.03	.00	36.00
1.600	1080.00	15.78	10047.02	530.34	34.58	1056.00	.11	21.61	.00	36.00
1.600	1800.00	16.48	10420.62	534.73	35.28	1056.00	.17	13.47	.01	36.00
1.600	3000.00	17.52	10976.42	541.37	36.32	1056.00	.27	8.54	.01	36.00
1.600	5000.00	19.02	11799.84	551.61	37.82	1056.00	.42	5.53	.02	36.00
1.800	648.00	15.29	10884.24	542.60	35.39	1056.00	.06	39.95	.00	36.00
1.800	1080.00	15.78	11151.41	546.27	35.88	1056.00	.10	24.63	.00	36.00
1.800	1800.00	16.48	11536.61	551.52	36.58	1056.00	.16	15.35	.01	36.00
1.800	3000.00	17.52	12110.98	559.49	37.62	1056.00	.25	9.72	.01	36.00
1.800	5000.00	19.03	12963.85	571.27	39.13	1056.00	.39	6.29	.01	36.00
1.980	648.00	15.29	8892.24	448.31	36.49	950.00	.07	43.57	.00	36.00
1.980	1080.00	15.78	9113.29	452.45	36.98	950.00	.12	26.86	.00	36.00
1.980	1800.00	16.48	9432.96	458.38	37.68	950.00	.19	16.74	.01	36.00

1.980	3000.00	17.52	9920.65	484.86	38.72	950.00	.30	10.60	.01	36.00
1.980	5000.00	19.03	10675.35	507.93	40.23	950.00	.47	6.85	.02	36.00
2.160	648.00	15.29	9384.63	537.63	37.09	950.00	.07	47.40	.00	36.00
2.160	1080.00	15.78	9651.06	547.94	37.58	950.00	.11	29.22	.00	36.00
2.160	1800.00	16.48	10040.91	562.68	38.28	950.00	.18	18.21	.01	36.00
2.160	3000.00	17.52	10634.37	584.42	39.32	950.00	.28	11.53	.01	36.00
2.160	5000.00	19.03	11532.01	600.60	40.83	950.00	.43	7.46	.02	36.00
2.340	648.00	15.29	8897.54	520.87	32.29	950.00	.07	51.02	.00	36.00
2.340	1080.00	15.78	9153.91	523.49	32.78	950.00	.12	31.46	.00	36.00
2.340	1800.00	16.48	9522.91	527.24	33.48	950.00	.19	19.61	.01	36.00
2.340	3000.00	17.52	10072.66	536.29	34.52	950.00	.30	12.42	.01	36.00
2.340	5000.00	19.03	10897.20	554.60	36.03	950.00	.46	8.04	.02	36.00
2.520	648.00	15.29	8461.74	504.31	22.39	950.00	.08	54.46	.00	36.00
2.520	1080.00	15.78	8710.15	507.40	22.88	950.00	.12	33.58	.01	36.00
2.520	1800.00	16.48	9068.21	511.83	23.58	950.00	.20	20.93	.01	36.00
2.520	3000.00	17.52	9601.85	518.35	24.62	950.00	.31	13.26	.01	36.00
2.520	5000.00	19.03	10393.17	527.69	26.13	950.00	.48	8.58	.02	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
2.700	648.00	15.29	9765.60	638.90	24.29	950.00	.07	58.44	.00	36.00
2.700	1080.00	15.78	10080.55	643.51	24.78	950.00	.11	36.05	.00	36.00
2.700	1800.00	16.48	10535.20	650.29	25.48	950.00	.17	22.48	.01	36.00
2.700	3000.00	17.52	11215.20	662.90	26.52	950.00	.27	14.25	.01	36.00
2.700	5000.00	19.04	12236.82	685.00	28.04	950.00	.41	9.23	.02	36.00
2.880	648.00	15.29	8757.57	591.47	24.19	950.00	.07	62.01	.00	36.00
2.880	1080.00	15.78	9049.28	595.93	24.68	950.00	.12	38.26	.01	36.00
2.880	1800.00	16.49	9471.29	604.67	25.39	950.00	.19	23.87	.01	36.00
2.880	3000.00	17.52	10105.08	616.42	26.42	950.00	.30	15.14	.01	36.00
2.880	5000.00	19.04	11051.08	631.78	27.94	950.00	.45	9.81	.02	36.00
3.060	648.00	15.29	9064.46	582.09	25.19	950.00	.07	65.70	.00	36.00
3.060	1080.00	15.78	9351.73	587.01	25.68	950.00	.12	40.54	.01	36.00
3.060	1800.00	16.49	9767.34	595.07	26.39	950.00	.18	25.30	.01	36.00
3.060	3000.00	17.52	10391.80	608.19	27.42	950.00	.29	16.05	.01	36.00
3.060	5000.00	19.04	11329.88	630.24	28.94	950.00	.44	10.41	.02	36.00
3.240	648.00	15.29	9438.86	661.10	24.39	950.00	.07	69.54	.00	36.00
3.240	1080.00	15.78	9764.86	665.26	24.88	950.00	.11	42.93	.01	36.00
3.240	1800.00	16.49	10235.17	671.22	25.59	950.00	.18	26.80	.01	36.00
3.240	3000.00	17.53	10936.63	679.00	26.63	950.00	.27	17.01	.01	36.00
3.240	5000.00	19.04	11975.31	689.27	28.14	950.00	.42	11.04	.02	36.00
3.420	648.00	15.29	9578.78	675.59	24.49	950.00	.07	73.44	.00	36.00
3.420	1080.00	15.78	9912.07	680.12	24.98	950.00	.11	45.35	.01	36.00
3.420	1800.00	16.49	10393.21	686.60	25.69	950.00	.17	28.32	.01	36.00

3.420	3000.00	17.53	11111.78	696.17	26.73	950.00	.27	17.99	.01	36.00
3.420	5000.00	19.05	12180.01	708.94	28.25	950.00	.41	11.69	.02	36.00
3.600	648.00	15.29	9874.82	615.97	25.49	950.00	.07	77.47	.00	36.00
3.600	1080.00	15.78	10178.81	620.26	25.98	950.00	.11	47.84	.00	36.00
3.600	1800.00	16.49	10617.86	626.40	26.69	950.00	.17	29.88	.01	36.00
3.600	3000.00	17.53	11273.25	633.20	27.73	950.00	.27	18.98	.01	36.00
3.600	5000.00	19.05	12242.05	640.97	29.25	950.00	.41	12.33	.02	36.00
3.700	648.00	15.29	9999.54	596.09	26.49	528.00	.06	79.73	.00	36.00
3.700	1080.00	15.78	10293.64	599.81	26.98	528.00	.10	49.24	.00	36.00
3.700	1800.00	16.49	10718.07	605.14	27.69	528.00	.17	30.75	.01	36.00
3.700	3000.00	17.53	11351.08	611.23	28.73	528.00	.26	19.54	.01	36.00
3.700	5000.00	19.05	12287.11	620.44	30.25	528.00	.41	12.69	.02	36.00
3.800	648.00	15.29	9977.50	622.06	24.19	528.00	.06	81.99	.00	36.00
3.800	1080.00	15.78	10284.91	627.80	24.68	528.00	.11	50.63	.00	36.00
3.800	1800.00	16.49	10730.26	636.51	25.39	528.00	.17	31.63	.01	36.00
3.800	3000.00	17.53	11398.65	646.53	26.43	528.00	.26	20.10	.01	36.00
3.800	5000.00	19.05	12387.29	652.89	27.95	528.00	.40	13.06	.02	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
4.000	648.00	15.29	8618.83	620.17	22.29	1056.00	.08	85.89	.00	36.00
4.000	1080.00	15.78	8925.07	624.73	22.78	1056.00	.12	53.06	.01	36.00
4.000	1800.00	16.49	9367.69	631.25	23.49	1056.00	.19	33.15	.01	36.00
4.000	3000.00	17.53	10029.79	640.89	24.53	1056.00	.30	21.08	.01	36.00
4.000	5000.00	19.05	11016.70	655.43	26.05	1056.00	.45	13.70	.02	36.00
4.200	648.00	15.29	9736.00	639.83	25.19	1056.00	.07	90.30	.00	36.00
4.200	1080.00	15.78	10051.89	643.95	25.68	1056.00	.11	55.79	.00	36.00
4.200	1800.00	16.49	10508.03	649.85	26.39	1056.00	.17	34.87	.01	36.00
4.200	3000.00	17.53	11189.44	658.56	27.43	1056.00	.27	22.17	.01	36.00
4.200	5000.00	19.05	12202.84	671.31	28.95	1056.00	.41	14.42	.02	36.00
4.400	648.00	15.29	9722.75	627.32	23.39	1056.00	.07	94.70	.00	36.00
4.400	1080.00	15.78	10032.58	631.40	23.88	1056.00	.11	58.51	.00	36.00
4.400	1800.00	16.49	10480.07	636.92	24.59	1056.00	.17	36.57	.01	36.00
4.400	3000.00	17.53	11148.59	647.39	25.63	1056.00	.27	23.26	.01	36.00
4.400	5000.00	19.06	12151.85	667.28	27.16	1056.00	.41	15.13	.02	36.00
4.600	648.00	15.29	9416.19	645.00	23.39	1056.00	.07	98.96	.00	36.00
4.600	1080.00	15.78	9734.66	648.62	23.88	1056.00	.11	61.16	.01	36.00
4.600	1800.00	16.49	10194.23	653.79	24.59	1056.00	.18	38.24	.01	36.00
4.600	3000.00	17.53	10880.07	661.44	25.63	1056.00	.28	24.32	.01	36.00
4.600	5000.00	19.06	11898.43	672.28	27.16	1056.00	.42	15.83	.02	36.00
4.800	648.00	15.29	10152.35	635.55	24.19	1056.00	.06	103.56	.00	36.00
4.800	1080.00	15.78	10466.19	638.91	24.68	1056.00	.10	64.00	.00	36.00
4.800	1800.00	16.49	10918.95	643.79	25.39	1056.00	.16	40.02	.01	36.00

4.800	3000.00	17.53	11594.65	651.24	26.43	1056.00	.26	25.46	.01	36.00
4.800	5000.00	19.06	12598.09	662.15	27.96	1056.00	.40	16.57	.02	36.00
5.000	648.00	15.29	10272.46	634.34	24.59	1056.00	.06	108.21	.00	36.00
5.000	1080.00	15.78	10585.79	637.73	25.08	1056.00	.10	66.87	.00	36.00
5.000	1800.00	16.49	11037.93	642.59	25.79	1056.00	.16	41.81	.01	36.00
5.000	3000.00	17.53	11712.78	650.39	26.83	1056.00	.26	26.60	.01	36.00
5.000	5000.00	19.06	12717.09	663.08	28.36	1056.00	.39	17.31	.02	36.00
5.200	648.00	15.29	9763.46	567.60	27.39	1056.00	.07	112.62	.00	36.00
5.200	1080.00	15.78	10043.74	570.08	27.88	1056.00	.11	69.60	.00	36.00
5.200	1800.00	16.49	10447.74	573.63	28.59	1056.00	.17	43.52	.01	36.00
5.200	3000.00	17.54	11049.69	578.87	29.64	1056.00	.27	27.68	.01	36.00
5.200	5000.00	19.07	11941.34	586.55	31.17	1056.00	.42	18.01	.02	36.00
5.400	648.00	15.29	9629.77	529.89	25.99	1056.00	.07	116.98	.00	36.00
5.400	1080.00	15.78	9891.52	532.42	26.48	1056.00	.11	72.29	.00	36.00
5.400	1800.00	16.49	10269.05	536.05	27.19	1056.00	.18	45.19	.01	36.00
5.400	3000.00	17.54	10832.06	541.41	28.24	1056.00	.28	28.74	.01	36.00
5.400	5000.00	19.07	11667.04	549.28	29.77	1056.00	.43	18.70	.02	36.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
*	5.600	648.00	15.29	11297.10	449.53	45.19	1056.00	.06	122.10	.00	36.00
*	5.600	1080.00	15.78	11519.36	452.18	45.68	1056.00	.09	75.42	.00	36.00
	5.600	1800.00	16.49	11840.26	455.71	46.39	1056.00	.15	47.12	.01	36.00
	5.600	3000.00	17.54	12319.45	460.91	47.44	1056.00	.24	29.95	.01	36.00
	5.600	5000.00	19.07	13031.38	468.23	48.97	1056.00	.38	19.46	.01	36.00
*	6.000	648.00	15.29	9163.22	500.55	26.19	2112.00	.07	130.39	.00	36.00
*	6.000	1080.00	15.78	9410.72	503.42	26.68	2112.00	.11	80.53	.00	36.00
*	6.000	1800.00	16.49	9768.22	507.54	27.39	2112.00	.18	50.30	.01	36.00
	6.000	3000.00	17.54	10302.49	513.62	28.44	2112.00	.29	31.96	.01	36.00
	6.000	5000.00	19.07	11097.22	522.54	29.97	2112.00	.45	20.77	.02	36.00
	6.200	648.00	15.29	9544.09	484.47	27.29	1056.00	.07	134.71	.00	36.00
	6.200	1080.00	15.79	9784.05	488.84	27.79	1056.00	.11	83.19	.00	36.00
	6.200	1800.00	16.49	10132.06	495.12	28.49	1056.00	.18	51.95	.01	36.00
	6.200	3000.00	17.54	10653.21	500.01	29.54	1056.00	.28	33.00	.01	36.00
	6.200	5000.00	19.07	11424.70	505.47	31.07	1056.00	.44	21.44	.02	36.00
	6.400	648.00	15.29	10372.13	528.24	30.59	1056.00	.06	139.41	.00	36.00
	6.400	1080.00	15.79	10633.29	530.79	31.09	1056.00	.10	86.07	.00	36.00
	6.400	1800.00	16.49	11010.19	534.43	31.79	1056.00	.16	53.75	.01	36.00
	6.400	3000.00	17.54	11572.75	539.83	32.84	1056.00	.26	34.13	.01	36.00
	6.400	5000.00	19.08	12407.91	547.29	34.38	1056.00	.40	22.16	.01	36.00
	6.600	648.00	15.29	12094.54	531.86	31.49	1056.00	.05	144.88	.00	36.00
	6.600	1080.00	15.79	12357.76	535.39	31.99	1056.00	.09	89.43	.00	36.00
	6.600	1800.00	16.49	12738.55	540.46	32.69	1056.00	.14	55.82	.01	36.00

	6.600	3000.00	17.54	13308.80	547.97	33.74	1056.00	.23	35.44	.01	36.00
	6.600	5000.00	19.08	14158.65	557.33	35.28	1056.00	.35	22.99	.01	36.00
*	6.800	648.00	15.29	14513.10	450.51	44.29	1056.00	.04	151.45	.00	36.00
*	6.800	1080.00	15.79	14735.93	452.84	44.79	1056.00	.07	93.43	.00	36.00
*	6.800	1800.00	16.49	15057.74	456.19	45.49	1056.00	.12	58.28	.00	36.00
*	6.800	3000.00	17.54	15538.53	461.15	46.54	1056.00	.19	36.96	.01	36.00
	6.800	5000.00	19.08	16253.36	468.43	48.08	1056.00	.31	23.95	.01	36.00
	7.000	648.00	15.29	15337.91	414.04	52.39	1056.00	.04	158.40	.00	36.00
	7.000	1080.00	15.79	15543.00	417.33	52.89	1056.00	.07	97.66	.00	36.00
	7.000	1800.00	16.49	15840.19	422.05	53.59	1056.00	.11	60.86	.00	36.00
	7.000	3000.00	17.54	16286.33	429.04	54.64	1056.00	.18	38.55	.01	36.00
	7.000	5000.00	19.08	16954.64	440.00	56.18	1056.00	.29	24.94	.01	36.00
*	7.100	648.00	15.29	8843.80	432.86	45.39	528.00	.07	160.40	.00	36.00
*	7.100	1080.00	15.79	9058.11	435.92	45.89	528.00	.12	98.89	.00	36.00
*	7.100	1800.00	16.49	9368.35	440.32	46.59	528.00	.19	61.62	.01	36.00
*	7.100	3000.00	17.54	9833.41	446.83	47.64	528.00	.31	39.03	.01	36.00
*	7.100	5000.00	19.08	10528.17	456.29	49.18	528.00	.47	25.25	.02	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
7.510	648.00	15.29	9105.52	419.30	34.39	2165.00	.07	168.85	.00	36.00
7.510	1080.00	15.79	9313.21	422.50	34.89	2165.00	.12	104.07	.00	36.00
7.510	1800.00	16.49	9614.06	427.08	35.59	2165.00	.19	64.84	.01	36.00
7.510	3000.00	17.54	10065.69	434.58	36.64	2165.00	.30	41.05	.01	36.00
7.510	5000.00	19.08	10744.18	446.90	38.18	2165.00	.47	26.54	.02	36.00
7.710	648.00	15.29	7987.94	421.97	28.49	1056.00	.08	172.47	.00	36.00
7.710	1080.00	15.79	8197.31	426.35	28.99	1056.00	.13	106.30	.01	36.00
7.710	1800.00	16.49	8501.69	432.65	29.69	1056.00	.21	66.22	.01	36.00
7.710	3000.00	17.54	8960.77	441.96	30.74	1056.00	.33	41.92	.01	36.00
7.710	5000.00	19.09	9652.53	455.21	32.29	1056.00	.52	27.11	.02	36.00
7.910	648.00	15.29	10461.25	525.93	27.59	1056.00	.06	177.20	.00	36.00
7.910	1080.00	15.79	10722.00	530.37	28.09	1056.00	.10	109.21	.00	36.00
7.910	1800.00	16.50	11100.17	536.33	28.80	1056.00	.16	68.03	.01	36.00
7.910	3000.00	17.55	11667.90	544.70	29.85	1056.00	.26	43.06	.01	36.00
7.910	5000.00	19.09	12517.65	556.98	31.39	1056.00	.40	27.84	.01	36.00
8.110	648.00	15.29	10802.41	583.06	24.49	1056.00	.06	182.09	.00	36.00
8.110	1080.00	15.79	11091.38	587.19	24.99	1056.00	.10	112.22	.00	36.00
8.110	1800.00	16.50	11509.76	592.16	25.70	1056.00	.16	69.91	.01	36.00
8.110	3000.00	17.55	12135.84	598.90	26.75	1056.00	.25	44.25	.01	36.00
8.110	5000.00	19.09	13068.65	608.80	28.29	1056.00	.38	28.61	.01	36.00
8.320	648.00	15.29	10595.24	541.60	24.39	1109.00	.06	187.13	.00	36.00
8.320	1080.00	15.79	10863.50	544.63	24.89	1109.00	.10	115.32	.00	36.00
8.320	1800.00	16.50	11251.43	548.97	25.60	1109.00	.16	71.83	.01	36.00

8.320	3000.00	17.55	11832.12	555.41	26.65	1109.00	.25	45.47	.01	36.00
8.320	5000.00	19.09	12697.78	565.09	28.19	1109.00	.39	29.39	.01	36.00
8.510	648.00	15.29	10699.61	515.58	29.59	1004.00	.06	191.73	.00	36.00
8.510	1080.00	15.79	10954.99	518.37	30.09	1004.00	.10	118.15	.00	36.00
8.510	1800.00	16.50	11324.25	522.37	30.80	1004.00	.16	73.59	.01	36.00
8.510	3000.00	17.55	11877.24	529.25	31.85	1004.00	.25	46.57	.01	36.00
8.510	5000.00	19.09	12703.82	539.94	33.39	1004.00	.39	30.10	.01	36.00
8.700	648.00	15.29	11324.67	542.04	29.29	1004.00	.06	196.61	.00	36.00
8.700	1080.00	15.79	11593.21	545.09	29.79	1004.00	.09	121.14	.00	36.00
8.700	1800.00	16.50	11981.67	549.48	30.50	1004.00	.15	75.44	.01	36.00
8.700	3000.00	17.55	12563.31	555.98	31.55	1004.00	.24	47.74	.01	36.00
8.700	5000.00	19.10	13430.78	565.55	33.10	1004.00	.37	30.85	.01	36.00
8.800	648.00	15.29	12838.63	544.34	41.39	528.00	.05	199.51	.00	36.00
8.800	1080.00	15.79	13108.29	547.25	41.89	528.00	.08	122.92	.00	36.00
8.800	1800.00	16.50	13498.14	551.03	42.60	528.00	.13	76.54	.00	36.00
8.800	3000.00	17.55	14080.92	556.38	43.65	528.00	.21	48.43	.01	36.00
8.800	5000.00	19.10	14947.98	564.26	45.20	528.00	.33	31.29	.01	36.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
*	8.910	648.00	15.29	9432.05	490.06	25.29	580.00	.07	201.86	.00	36.00
*	8.910	1080.00	15.79	9674.82	492.58	25.79	580.00	.11	124.37	.00	36.00
*	8.910	1800.00	16.50	10025.82	496.22	26.50	580.00	.18	77.44	.01	36.00
*	8.910	3000.00	17.55	10551.04	501.60	27.55	580.00	.28	48.99	.01	36.00
*	8.910	5000.00	19.10	11333.61	509.40	29.10	580.00	.44	31.66	.02	36.00
	9.110	648.00	15.29	9513.91	461.79	29.29	1056.00	.07	206.16	.00	36.00
	9.110	1080.00	15.79	9742.46	463.27	29.79	1056.00	.11	127.01	.00	36.00
	9.110	1800.00	16.50	10072.16	465.39	30.50	1056.00	.18	79.08	.01	36.00
	9.110	3000.00	17.55	10563.84	468.54	31.55	1056.00	.28	50.03	.01	36.00
	9.110	5000.00	19.10	11292.87	473.18	33.10	1056.00	.44	32.32	.02	36.00
	9.310	648.00	15.29	9116.28	442.53	27.39	1056.00	.07	210.29	.00	36.00
	9.310	1080.00	15.79	9335.84	445.93	27.89	1056.00	.12	129.55	.00	36.00
	9.310	1800.00	16.50	9654.32	450.81	28.60	1056.00	.19	80.65	.01	36.00
	9.310	3000.00	17.55	10133.03	457.75	29.65	1056.00	.30	51.02	.01	36.00
	9.310	5000.00	19.10	10848.34	465.21	31.20	1056.00	.46	32.95	.02	36.00
	9.520	648.00	15.29	8490.62	440.09	25.39	1109.00	.08	214.33	.00	36.00
	9.520	1080.00	15.79	8708.95	443.23	25.89	1109.00	.12	132.03	.00	36.00
	9.520	1800.00	16.50	9025.47	447.75	26.60	1109.00	.20	82.20	.01	36.00
	9.520	3000.00	17.55	9500.94	454.45	27.65	1109.00	.32	51.99	.01	36.00
	9.520	5000.00	19.10	10210.67	460.62	29.20	1109.00	.49	33.58	.02	36.00
	9.700	648.00	15.29	8916.67	485.29	24.29	950.00	.07	217.96	.00	36.00
	9.700	1080.00	15.79	9157.17	487.54	24.79	950.00	.12	134.27	.00	36.00
	9.700	1800.00	16.50	9504.82	490.76	25.50	950.00	.19	83.59	.01	36.00

9.700	3000.00	17.55	10024.87	495.55	26.55	950.00	.30	52.87	.01	36.00
9.700	5000.00	19.10	10799.29	502.59	28.10	950.00	.46	34.15	.02	36.00
9.910	648.00	15.29	8822.78	450.46	27.39	1109.00	.07	222.15	.00	36.00
9.910	1080.00	15.79	9046.15	452.84	27.89	1109.00	.12	136.85	.00	36.00
9.910	1800.00	16.50	9369.37	456.27	28.60	1109.00	.19	85.20	.01	36.00
9.910	3000.00	17.55	9853.58	461.37	29.65	1109.00	.30	53.89	.01	36.00
9.910	5000.00	19.11	10575.83	468.24	31.21	1109.00	.47	34.80	.02	36.00
10.110	648.00	15.29	8755.64	445.71	29.39	1056.00	.07	226.12	.00	36.00
10.110	1080.00	15.79	8976.79	448.43	29.89	1056.00	.12	139.29	.00	36.00
10.110	1800.00	16.50	9297.40	453.04	30.60	1056.00	.19	86.71	.01	36.00
10.110	3000.00	17.55	9779.35	459.88	31.65	1056.00	.31	54.84	.01	36.00
10.110	5000.00	19.11	10502.09	469.97	33.21	1056.00	.48	35.42	.02	36.00
10.300	648.00	15.29	9125.47	450.36	29.19	1003.00	.07	230.04	.00	36.00
10.300	1080.00	15.79	9348.93	452.95	29.69	1003.00	.12	141.70	.00	36.00
10.300	1800.00	16.50	9672.55	456.68	30.40	1003.00	.19	88.21	.01	36.00
10.300	3000.00	17.56	10157.91	462.22	31.46	1003.00	.30	55.78	.01	36.00
10.300	5000.00	19.11	10883.32	470.38	33.01	1003.00	.46	36.03	.02	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
10.490	648.00	15.29	8090.27	528.80	22.39	1003.00	.08	233.52	.00	36.00
10.490	1080.00	15.79	8352.85	532.42	22.89	1003.00	.13	143.86	.01	36.00
10.490	1800.00	16.50	8733.57	537.17	23.60	1003.00	.21	89.56	.01	36.00
10.490	3000.00	17.56	9304.81	543.72	24.66	1003.00	.32	56.65	.01	36.00
10.490	5000.00	19.11	10157.41	550.98	26.21	1003.00	.49	36.59	.02	36.00
10.680	648.00	15.29	8088.62	436.12	25.49	1003.00	.08	237.00	.00	36.00
10.680	1080.00	15.79	8305.31	439.44	25.99	1003.00	.13	146.00	.01	36.00
10.680	1800.00	16.50	8619.92	444.21	26.70	1003.00	.21	90.89	.01	36.00
10.680	3000.00	17.56	9093.47	451.30	27.76	1003.00	.33	57.49	.01	36.00
10.680	5000.00	19.12	9803.27	458.95	29.32	1003.00	.51	37.14	.02	36.00
10.870	648.00	15.29	8652.69	423.87	31.19	1003.00	.07	240.72	.00	36.00
10.870	1080.00	15.79	8863.52	427.78	31.69	1003.00	.12	148.28	.00	36.00
10.870	1800.00	16.50	9170.28	433.39	32.40	1003.00	.20	92.31	.01	36.00
10.870	3000.00	17.56	9633.40	441.73	33.46	1003.00	.31	58.39	.01	36.00
10.870	5000.00	19.12	10331.96	453.74	35.02	1003.00	.48	37.72	.02	36.00
11.040	648.00	15.29	9372.72	391.07	37.39	898.00	.07	244.32	.00	36.00
11.040	1080.00	15.79	9567.38	395.06	37.89	898.00	.11	150.49	.00	36.00
11.040	1800.00	16.50	9850.97	400.81	38.60	898.00	.18	93.68	.01	36.00
11.040	3000.00	17.56	10279.93	409.34	39.66	898.00	.29	59.24	.01	36.00
11.040	5000.00	19.12	10934.37	429.57	41.22	898.00	.46	38.26	.02	36.00
11.230	648.00	15.29	10164.17	433.82	35.29	1003.00	.06	248.69	.00	36.00
11.230	1080.00	15.79	10379.89	437.23	35.79	1003.00	.10	153.17	.00	36.00
11.230	1800.00	16.50	10693.10	441.26	36.50	1003.00	.17	95.33	.01	36.00

11.230	3000.00	17.56	11163.42	446.60	37.56	1003.00	.27	60.28	.01	36.00
11.230	5000.00	19.12	11867.26	454.48	39.12	1003.00	.42	38.92	.01	36.00
11.430	648.00	15.29	8504.33	426.25	30.29	1056.00	.08	252.54	.00	36.00
11.430	1080.00	15.79	8716.37	429.82	30.79	1056.00	.12	155.54	.00	36.00
11.430	1800.00	16.50	9024.68	434.96	31.50	1056.00	.20	96.80	.01	36.00
11.430	3000.00	17.56	9489.74	442.61	32.56	1056.00	.32	61.21	.01	36.00
11.430	5000.00	19.12	10189.96	452.98	34.12	1056.00	.49	39.52	.02	36.00
11.620	648.00	15.29	8216.33	437.21	32.39	1003.00	.08	256.08	.00	36.00
11.620	1080.00	15.79	8433.84	440.86	32.89	1003.00	.13	157.72	.01	36.00
11.620	1800.00	16.50	8749.86	445.22	33.60	1003.00	.21	98.16	.01	36.00
11.620	3000.00	17.56	9225.21	451.45	34.66	1003.00	.33	62.06	.01	36.00
11.620	5000.00	19.13	9938.47	460.66	36.23	1003.00	.50	40.07	.02	36.00
11.810	648.00	15.29	8339.28	419.64	28.39	1003.00	.08	259.66	.00	36.00
11.810	1080.00	15.79	8548.40	424.32	28.89	1003.00	.13	159.92	.00	36.00
11.810	1800.00	16.50	8853.56	431.05	29.60	1003.00	.20	99.53	.01	36.00
11.810	3000.00	17.56	9316.23	441.07	30.66	1003.00	.32	62.93	.01	36.00
11.810	5000.00	19.13	10018.12	454.53	32.23	1003.00	.50	40.63	.02	36.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	12.210	648.00	15.29	7764.15	436.13	29.39	2112.00	.08	266.69	.00	36.00
	12.210	1080.00	15.79	7981.74	441.57	29.89	2112.00	.14	164.26	.01	36.00
	12.210	1800.00	16.50	8299.87	449.39	30.60	2112.00	.22	102.23	.01	36.00
	12.210	3000.00	17.57	8796.45	486.85	31.67	2112.00	.34	64.65	.01	36.00
	12.210	5000.00	19.13	9577.37	503.86	33.23	2112.00	.52	41.76	.02	36.00
*	12.420	648.00	15.29	10112.49	427.38	40.29	1109.00	.06	271.50	.00	36.00
*	12.420	1080.00	15.79	10325.01	429.64	40.79	1109.00	.10	167.20	.00	36.00
*	12.420	1800.00	16.50	10633.14	432.88	41.50	1109.00	.17	104.05	.01	36.00
*	12.420	3000.00	17.57	11096.02	437.72	42.57	1109.00	.27	65.79	.01	36.00
*	12.420	5000.00	19.14	11790.56	447.24	44.14	1109.00	.42	42.48	.01	36.00
	12.610	648.00	15.29	9967.36	364.35	44.39	1003.00	.07	275.78	.00	36.00
	12.610	1080.00	15.79	10148.72	366.83	44.89	1003.00	.11	169.82	.00	36.00
	12.610	1800.00	16.50	10412.22	370.40	45.60	1003.00	.17	105.67	.01	36.00
	12.610	3000.00	17.57	10809.46	376.47	46.67	1003.00	.28	66.79	.01	36.00
	12.610	5000.00	19.14	11408.89	386.09	48.24	1003.00	.44	43.12	.01	36.00
	12.810	648.00	15.29	8810.70	466.20	33.39	1056.00	.07	279.77	.00	36.00
	12.810	1080.00	15.79	9042.88	469.78	33.89	1056.00	.12	172.28	.00	36.00
	12.810	1800.00	16.50	9380.54	474.93	34.60	1056.00	.19	107.19	.01	36.00
	12.810	3000.00	17.57	9890.05	482.61	35.67	1056.00	.30	67.76	.01	36.00
	12.810	5000.00	19.14	10657.84	493.96	37.24	1056.00	.47	43.74	.02	36.00
	13.000	648.00	15.29	9385.77	435.99	31.59	1003.00	.07	283.81	.00	36.00
	13.000	1080.00	15.79	9602.71	438.44	32.09	1003.00	.11	174.75	.00	36.00
	13.000	1800.00	16.51	9917.48	441.97	32.81	1003.00	.18	108.73	.01	36.00

13.000	3000.00	17.57	10390.82	447.22	33.87	1003.00	.29	68.72	.01	36.00
13.000	5000.00	19.14	11100.60	454.98	35.44	1003.00	.45	44.36	.02	36.00
13.200	648.00	15.29	9634.18	460.84	32.29	1056.00	.07	288.17	.00	36.00
13.200	1080.00	15.79	9863.41	462.92	32.79	1056.00	.11	177.43	.00	36.00
13.200	1800.00	16.51	10195.80	466.80	33.51	1056.00	.18	110.39	.01	36.00
13.200	3000.00	17.57	10696.70	473.57	34.57	1056.00	.28	69.77	.01	36.00
13.200	5000.00	19.15	11450.38	483.57	36.15	1056.00	.44	45.03	.02	36.00
13.410	648.00	15.29	8714.71	510.85	27.59	1109.00	.07	292.31	.00	36.00
13.410	1080.00	15.79	8969.49	515.68	28.09	1109.00	.12	179.99	.01	36.00
13.410	1800.00	16.51	9340.95	522.63	28.81	1109.00	.19	111.99	.01	36.00
13.410	3000.00	17.57	9903.10	531.97	29.87	1109.00	.30	70.79	.01	36.00
13.410	5000.00	19.15	10751.84	545.19	31.45	1109.00	.47	45.70	.02	36.00
13.600	648.00	15.29	8533.67	534.81	25.39	1003.00	.08	295.98	.00	36.00
13.600	1080.00	15.79	8800.50	540.05	25.89	1003.00	.12	182.26	.01	36.00
13.600	1800.00	16.51	9189.84	547.93	26.61	1003.00	.20	113.41	.01	36.00
13.600	3000.00	17.57	9780.43	559.76	27.67	1003.00	.31	71.70	.01	36.00
13.600	5000.00	19.15	10676.97	576.78	29.25	1003.00	.47	46.29	.02	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
13.800	648.00	15.29	9603.72	459.60	27.49	1056.00	.07	300.33	.00	36.00
13.800	1080.00	15.79	9833.39	465.32	27.99	1056.00	.11	184.93	.00	36.00
13.800	1800.00	16.51	10172.35	481.42	28.71	1056.00	.18	115.07	.01	36.00
13.800	3000.00	17.57	10693.48	492.94	29.77	1056.00	.28	72.74	.01	36.00
13.800	5000.00	19.15	11481.90	505.86	31.35	1056.00	.44	46.96	.02	36.00
14.000	648.00	15.29	9613.94	425.03	36.39	1056.00	.07	304.68	.00	36.00
14.000	1080.00	15.79	9825.73	427.69	36.89	1056.00	.11	187.60	.00	36.00
14.000	1800.00	16.51	10133.51	431.53	37.61	1056.00	.18	116.72	.01	36.00
14.000	3000.00	17.57	10597.61	438.13	38.67	1056.00	.28	73.78	.01	36.00
14.000	5000.00	19.15	11298.46	448.91	40.25	1056.00	.44	47.63	.02	36.00
14.390	648.00	15.29	9643.97	524.36	30.39	2059.00	.07	313.19	.00	36.00
14.390	1080.00	15.79	9907.37	535.90	30.89	2059.00	.11	192.85	.00	36.00
14.390	1800.00	16.51	10296.56	548.28	31.61	2059.00	.17	119.99	.01	36.00
14.390	3000.00	17.58	10889.70	561.90	32.68	2059.00	.28	75.85	.01	36.00
14.390	5000.00	19.16	11792.13	577.31	34.26	2059.00	.42	48.98	.02	36.00
14.580	648.00	15.29	8418.91	476.70	32.29	1003.00	.08	316.81	.00	36.00
14.580	1080.00	15.79	8656.91	481.13	32.79	1003.00	.12	195.08	.01	36.00
14.580	1800.00	16.51	9004.15	487.52	33.51	1003.00	.20	121.39	.01	36.00
14.580	3000.00	17.58	9530.44	497.04	34.58	1003.00	.31	76.74	.01	36.00
14.580	5000.00	19.16	10328.39	511.14	36.16	1003.00	.48	49.55	.02	36.00
14.780	648.00	15.29	8792.59	530.36	27.39	1056.00	.07	320.79	.00	36.00
14.780	1080.00	15.79	9059.53	543.70	27.89	1056.00	.12	197.54	.01	36.00
14.780	1800.00	16.51	9451.33	548.70	28.61	1056.00	.19	122.93	.01	36.00

	14.780	3000.00	17.58	10042.12	555.90	29.68	1056.00	.30	77.72	.01	36.00
	14.780	5000.00	19.16	10931.17	566.56	31.26	1056.00	.46	50.19	.02	36.00
	14.980	648.00	15.29	9116.37	508.70	27.49	1056.00	.07	324.92	.00	36.00
	14.980	1080.00	15.79	9370.55	513.72	27.99	1056.00	.12	200.09	.00	36.00
	14.980	1800.00	16.51	9740.85	518.29	28.71	1056.00	.18	124.51	.01	36.00
	14.980	3000.00	17.58	10299.32	525.06	29.78	1056.00	.29	78.73	.01	36.00
	14.980	5000.00	19.17	11142.11	538.20	31.37	1056.00	.45	50.85	.02	36.00
	15.190	648.00	15.29	8852.04	469.37	29.39	1109.00	.07	329.13	.00	36.00
	15.190	1080.00	15.79	9086.62	473.92	29.89	1109.00	.12	202.68	.00	36.00
	15.190	1800.00	16.51	9429.20	480.48	30.61	1109.00	.19	126.13	.01	36.00
	15.190	3000.00	17.58	9949.13	490.28	31.68	1109.00	.30	79.75	.01	36.00
	15.190	5000.00	19.17	10738.83	504.79	33.27	1109.00	.47	51.51	.02	36.00
*	15.380	648.00	15.29	7010.91	521.72	23.19	1000.00	.09	332.13	.00	36.00
*	15.380	1080.00	15.79	7271.97	527.90	23.69	1000.00	.15	204.55	.01	36.00
*	15.380	1800.00	16.51	7653.90	534.94	24.41	1000.00	.24	127.31	.01	36.00
*	15.380	3000.00	17.58	8231.54	543.07	25.48	1000.00	.36	80.51	.02	36.00
	15.380	5000.00	19.17	9103.64	555.11	27.07	1000.00	.55	52.01	.02	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
15.580	648.00	15.29	8079.88	451.60	28.29	1056.00	.08	335.79	.00	36.00
15.580	1080.00	15.79	8305.37	454.71	28.79	1056.00	.13	206.80	.01	36.00
15.580	1800.00	16.51	8633.69	459.20	29.51	1056.00	.21	128.72	.01	36.00
15.580	3000.00	17.58	9129.80	465.90	30.58	1056.00	.33	81.40	.01	36.00
15.580	5000.00	19.17	9878.44	475.33	32.17	1056.00	.51	52.59	.02	36.00
15.780	648.00	15.29	7572.00	468.04	22.39	1056.00	.09	339.22	.00	36.00
15.780	1080.00	15.79	7805.66	470.60	22.89	1056.00	.14	208.92	.01	36.00
15.780	1800.00	16.51	8145.39	474.30	23.61	1056.00	.22	130.04	.01	36.00
15.780	3000.00	17.59	8658.12	480.87	24.69	1056.00	.35	82.25	.01	36.00
15.780	5000.00	19.18	9431.87	490.93	26.28	1056.00	.53	53.15	.02	36.00
15.980	648.00	15.30	7582.59	419.22	27.50	1056.00	.09	342.65	.00	36.00
15.980	1080.00	15.79	7792.40	423.50	27.99	1056.00	.14	211.04	.01	36.00
15.980	1800.00	16.51	8099.26	429.69	28.71	1056.00	.22	131.36	.01	36.00
15.980	3000.00	17.59	8566.19	439.98	29.79	1056.00	.35	83.09	.01	36.00
15.980	5000.00	19.18	9280.59	456.51	31.38	1056.00	.54	53.69	.02	36.00
16.200	648.00	15.30	8257.93	490.47	28.10	1162.00	.08	346.76	.00	36.00
16.200	1080.00	15.79	8502.73	492.37	28.59	1162.00	.13	213.58	.01	36.00
16.200	1800.00	16.51	8858.12	495.13	29.31	1162.00	.20	132.95	.01	36.00
16.200	3000.00	17.59	9392.79	499.24	30.39	1162.00	.32	84.10	.01	36.00
16.200	5000.00	19.18	10194.35	505.34	31.98	1162.00	.49	54.35	.02	36.00
16.380	648.00	15.30	9072.93	449.33	27.30	950.00	.07	350.46	.00	36.00
16.380	1080.00	15.79	9297.62	452.53	27.79	950.00	.12	215.85	.00	36.00
16.380	1800.00	16.51	9625.17	457.15	28.51	950.00	.19	134.36	.01	36.00

16.380	3000.00	17.59	10120.90	464.06	29.59	950.00	.30	84.99	.01	36.00
16.380	5000.00	19.19	10870.47	474.34	31.19	950.00	.46	54.92	.02	36.00
16.600	648.00	15.30	9502.75	539.60	25.20	1162.00	.07	355.19	.00	36.00
16.600	1080.00	15.79	9772.56	543.06	25.69	1162.00	.11	218.77	.00	36.00
16.600	1800.00	16.51	10165.60	548.06	26.41	1162.00	.18	136.19	.01	36.00
16.600	3000.00	17.59	10759.84	555.54	27.49	1162.00	.28	86.15	.01	36.00
16.600	5000.00	19.19	11654.80	563.18	29.09	1162.00	.43	55.68	.02	36.00
16.790	648.00	15.30	8929.28	506.77	27.50	1003.00	.07	359.03	.00	36.00
16.790	1080.00	15.79	9182.76	510.20	27.99	1003.00	.12	221.14	.00	36.00
16.790	1800.00	16.51	9552.22	515.16	28.71	1003.00	.19	137.66	.01	36.00
16.790	3000.00	17.59	10111.26	522.58	29.79	1003.00	.30	87.09	.01	36.00
16.790	5000.00	19.19	10956.26	533.59	31.39	1003.00	.46	56.29	.02	36.00
17.000	648.00	15.30	8959.90	497.64	25.30	1109.00	.07	363.29	.00	36.00
17.000	1080.00	15.79	9208.83	500.86	25.79	1109.00	.12	223.77	.00	36.00
17.000	1800.00	16.52	9571.57	505.50	26.52	1109.00	.19	139.30	.01	36.00
17.000	3000.00	17.59	10120.18	512.00	27.59	1109.00	.30	88.13	.01	36.00
17.000	5000.00	19.19	10946.30	519.84	29.19	1109.00	.46	56.96	.02	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
17.200	648.00	15.30	8963.33	475.97	25.40	1056.00	.07	367.35	.00	36.00
17.200	1080.00	15.79	9201.79	480.34	25.89	1056.00	.12	226.27	.00	36.00
17.200	1800.00	16.52	9550.48	486.65	26.62	1056.00	.19	140.86	.01	36.00
17.200	3000.00	17.59	10080.36	495.58	27.69	1056.00	.30	89.11	.01	36.00
17.200	5000.00	19.20	10884.46	507.89	29.30	1056.00	.46	57.60	.02	36.00
17.400	648.00	15.30	8300.20	448.20	27.40	1056.00	.08	371.11	.00	36.00
17.400	1080.00	15.79	8524.46	450.93	27.89	1056.00	.13	228.58	.01	36.00
17.400	1800.00	16.52	8851.19	454.88	28.62	1056.00	.20	142.30	.01	36.00
17.400	3000.00	17.59	9345.27	460.78	29.69	1056.00	.32	90.02	.01	36.00
17.400	5000.00	19.20	10091.29	469.55	31.30	1056.00	.50	58.19	.02	36.00
17.610	648.00	15.30	8898.24	451.62	27.40	1108.00	.07	375.33	.00	36.00
17.610	1080.00	15.79	9124.33	454.69	27.89	1108.00	.12	231.18	.00	36.00
17.610	1800.00	16.52	9454.07	459.12	28.62	1108.00	.19	143.92	.01	36.00
17.610	3000.00	17.60	9953.42	465.75	29.70	1108.00	.30	91.05	.01	36.00
17.610	5000.00	19.20	10708.88	475.62	31.30	1108.00	.47	58.85	.02	36.00
17.800	648.00	15.30	9571.05	443.19	27.50	1003.00	.07	379.45	.00	36.00
17.800	1080.00	15.79	9792.87	445.78	27.99	1003.00	.11	233.71	.00	36.00
17.800	1800.00	16.52	10116.08	449.53	28.72	1003.00	.18	145.48	.01	36.00
17.800	3000.00	17.60	10604.83	455.14	29.80	1003.00	.28	92.03	.01	36.00
17.800	5000.00	19.20	11343.76	464.98	31.40	1003.00	.44	59.48	.02	36.00
18.010	648.00	15.30	8398.86	404.30	30.40	1108.00	.08	383.44	.00	36.00
18.010	1080.00	15.79	8601.47	407.55	30.89	1108.00	.13	236.16	.00	36.00
18.010	1800.00	16.52	8897.64	412.87	31.62	1108.00	.20	147.00	.01	36.00

18.010	3000.00	17.60	9348.62	421.49	32.70	1108.00	.32	92.99	.01	36.00
18.010	5000.00	19.21	10036.53	434.31	34.31	1108.00	.50	60.10	.02	36.00
18.200	648.00	15.30	8433.00	468.32	26.40	1003.00	.08	387.06	.00	36.00
18.200	1080.00	15.80	8668.01	473.19	26.90	1003.00	.12	238.40	.01	36.00
18.200	1800.00	16.52	9012.37	480.24	27.62	1003.00	.20	148.40	.01	36.00
18.200	3000.00	17.60	9537.42	490.80	28.70	1003.00	.31	93.88	.01	36.00
18.200	5000.00	19.21	10337.33	502.20	30.31	1003.00	.48	60.68	.02	36.00
18.390	648.00	15.30	8243.52	434.55	26.60	1003.00	.08	390.61	.00	36.00
18.390	1080.00	15.80	8461.30	437.70	27.10	1003.00	.13	240.58	.01	36.00
18.390	1800.00	16.52	8779.27	442.25	27.82	1003.00	.21	149.76	.01	36.00
18.390	3000.00	17.60	9261.56	449.08	28.90	1003.00	.32	94.74	.01	36.00
18.390	5000.00	19.21	9992.89	459.53	30.51	1003.00	.50	61.23	.02	36.00
18.590	648.00	15.30	8853.96	475.96	26.20	1056.00	.07	394.61	.00	36.00
18.590	1080.00	15.80	9092.58	479.54	26.70	1056.00	.12	243.05	.00	36.00
18.590	1800.00	16.52	9440.99	483.90	27.42	1056.00	.19	151.30	.01	36.00
18.590	3000.00	17.60	9968.03	489.52	28.50	1056.00	.30	95.71	.01	36.00
18.590	5000.00	19.21	10763.67	497.89	30.11	1056.00	.46	61.86	.02	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
18.780	648.00	15.30	9068.07	467.63	26.40	1003.00	.07	398.51	.00	36.00
18.780	1080.00	15.80	9302.37	470.33	26.90	1003.00	.12	245.45	.00	36.00
18.780	1800.00	16.52	9643.98	474.25	27.62	1003.00	.19	152.79	.01	36.00
18.780	3000.00	17.60	10161.04	480.13	28.70	1003.00	.30	96.65	.01	36.00
18.780	5000.00	19.22	10942.57	488.87	30.32	1003.00	.46	62.47	.02	36.00
18.990	648.00	15.30	9158.33	463.88	26.60	1109.00	.07	402.87	.00	36.00
18.990	1080.00	15.80	9390.79	466.55	27.10	1109.00	.12	248.13	.00	36.00
18.990	1800.00	16.52	9729.76	470.41	27.82	1109.00	.18	154.46	.01	36.00
18.990	3000.00	17.60	10243.13	476.91	28.90	1109.00	.29	97.71	.01	36.00
18.990	5000.00	19.22	11021.28	487.18	30.52	1109.00	.45	63.15	.02	36.00
19.220	648.00	15.30	10115.16	419.11	32.50	1214.00	.06	408.13	.00	36.00
19.220	1080.00	15.80	10325.15	421.20	33.00	1214.00	.10	251.35	.00	36.00
19.220	1800.00	16.52	10631.19	424.71	33.72	1214.00	.17	156.45	.01	36.00
19.220	3000.00	17.60	11095.23	430.88	34.80	1214.00	.27	98.95	.01	36.00
19.220	5000.00	19.22	11798.74	440.07	36.42	1214.00	.42	63.95	.01	36.00
19.440	648.00	15.30	8943.37	421.90	32.40	1162.00	.07	412.59	.00	36.00
19.440	1080.00	15.80	9155.23	425.64	32.90	1162.00	.12	254.09	.00	36.00
19.440	1800.00	16.52	9465.10	430.32	33.62	1162.00	.19	158.14	.01	36.00
19.440	3000.00	17.61	9935.91	437.35	34.71	1162.00	.30	100.02	.01	36.00
19.440	5000.00	19.22	10651.41	447.82	36.32	1162.00	.47	64.64	.02	36.00
19.670	648.00	15.30	8749.30	407.45	30.40	1214.00	.07	417.14	.00	36.00
19.670	1080.00	15.80	8953.79	410.60	30.90	1214.00	.12	256.88	.00	36.00
19.670	1800.00	16.52	9252.77	414.92	31.62	1214.00	.19	159.88	.01	36.00

19.670	3000.00	17.61	9706.28	420.57	32.71	1214.00	.31	101.11	.01	36.00
19.670	5000.00	19.22	10394.96	432.12	34.32	1214.00	.48	65.34	.02	36.00
19.880	648.00	15.30	8683.60	445.63	27.30	1109.00	.07	421.27	.00	36.00
19.880	1080.00	15.80	8907.92	451.17	27.80	1109.00	.12	259.43	.00	36.00
19.880	1800.00	16.52	9237.33	458.20	28.52	1109.00	.19	161.46	.01	36.00
19.880	3000.00	17.61	9740.77	468.74	29.61	1109.00	.31	102.11	.01	36.00
19.880	5000.00	19.23	10510.63	481.92	31.23	1109.00	.48	65.99	.02	36.00
20.090	648.00	15.30	8893.92	430.72	28.30	1109.00	.07	425.50	.00	36.00
20.090	1080.00	15.80	9109.95	433.13	28.80	1109.00	.12	262.02	.00	36.00
20.090	1800.00	16.52	9425.34	437.66	29.52	1109.00	.19	163.07	.01	36.00
20.090	3000.00	17.61	9905.34	445.58	30.61	1109.00	.30	103.13	.01	36.00
20.090	5000.00	19.23	10640.23	462.82	32.23	1109.00	.47	66.64	.02	36.00
20.300	648.00	15.30	9169.75	469.22	29.50	1109.00	.07	429.85	.00	36.00
20.300	1080.00	15.80	9405.19	472.01	30.00	1109.00	.11	264.71	.00	36.00
20.300	1800.00	16.52	9748.87	476.04	30.72	1109.00	.18	164.74	.01	36.00
20.300	3000.00	17.61	10269.88	482.10	31.81	1109.00	.29	104.19	.01	36.00
20.300	5000.00	19.23	11059.04	491.14	33.43	1109.00	.45	67.32	.02	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
20.510	648.00	15.30	8718.16	478.10	27.50	1109.00	.07	434.00	.00	36.00
20.510	1080.00	15.80	8958.07	480.78	28.00	1109.00	.12	267.26	.00	36.00
20.510	1800.00	16.52	9309.26	488.17	28.72	1109.00	.19	166.33	.01	36.00
20.510	3000.00	17.61	9846.96	500.13	29.81	1109.00	.30	105.20	.01	36.00
20.510	5000.00	19.23	10687.16	550.69	31.43	1109.00	.47	67.98	.02	36.00
20.700	648.00	15.30	10158.77	568.88	27.60	1003.00	.06	438.37	.00	36.00
20.700	1080.00	15.80	10444.72	573.91	28.10	1003.00	.10	269.96	.00	36.00
20.700	1800.00	16.52	10863.88	581.57	28.82	1003.00	.17	168.01	.01	36.00
20.700	3000.00	17.61	11503.27	593.05	29.91	1003.00	.26	106.26	.01	36.00
20.700	5000.00	19.24	12480.52	610.19	31.54	1003.00	.40	68.68	.02	36.00
20.780	648.00	15.30	10041.03	527.56	27.40	422.00	.06	440.18	.00	36.00
20.780	1080.00	15.80	10306.03	531.27	27.90	422.00	.10	271.07	.00	36.00
20.780	1800.00	16.52	10693.52	536.64	28.62	422.00	.17	168.71	.01	36.00
20.780	3000.00	17.61	11282.38	544.71	29.71	422.00	.27	106.71	.01	36.00
20.780	5000.00	19.24	12179.01	559.00	31.34	422.00	.41	68.96	.02	36.00
20.900	648.00	15.30	9563.36	435.13	29.30	634.00	.07	442.78	.00	36.00
20.900	1080.00	15.80	9782.00	438.38	29.80	634.00	.11	272.67	.00	36.00
20.900	1800.00	16.52	10101.88	443.08	30.52	634.00	.18	169.70	.01	36.00
20.900	3000.00	17.61	10589.05	451.78	31.61	634.00	.28	107.33	.01	36.00
20.900	5000.00	19.24	11334.78	465.62	33.24	634.00	.44	69.36	.02	36.00
21.080	648.00	15.30	10021.54	426.90	31.40	950.00	.06	446.86	.00	36.00
21.080	1080.00	15.80	10236.00	429.79	31.90	950.00	.11	275.17	.00	36.00
21.080	1800.00	16.52	10549.51	433.97	32.62	950.00	.17	171.25	.01	36.00

21.080	3000.00	17.61	11025.82	440.24	33.71	950.00	.27	108.30	.01	36.00
21.080	5000.00	19.24	11749.45	449.61	35.34	950.00	.43	69.98	.01	36.00
21.300	648.00	15.30	9062.61	461.54	29.20	1162.00	.07	451.38	.00	36.00
21.300	1080.00	15.80	9295.21	467.48	29.70	1162.00	.12	277.95	.00	36.00
21.300	1800.00	16.52	9637.79	476.09	30.42	1162.00	.19	172.97	.01	36.00
21.300	3000.00	17.61	10161.92	483.93	31.51	1162.00	.30	109.39	.01	36.00
21.300	5000.00	19.24	10955.87	491.72	33.14	1162.00	.46	70.69	.02	36.00
21.520	648.00	15.30	8908.15	526.73	29.40	1162.00	.07	455.82	.00	36.00
21.520	1080.00	15.80	9172.89	530.48	29.90	1162.00	.12	280.69	.00	36.00
21.520	1800.00	16.52	9560.18	535.93	30.62	1162.00	.19	174.69	.01	36.00
21.520	3000.00	17.61	10149.15	544.11	31.71	1162.00	.30	110.48	.01	36.00
21.520	5000.00	19.24	11042.80	552.47	33.34	1162.00	.45	71.40	.02	36.00
21.700	648.00	15.30	7781.21	505.94	27.40	950.00	.08	458.98	.00	36.00
21.700	1080.00	15.80	8035.37	508.77	27.90	950.00	.13	282.65	.01	36.00
21.700	1800.00	16.52	8406.56	512.87	28.62	950.00	.21	175.92	.01	36.00
21.700	3000.00	17.62	8969.62	519.03	29.72	950.00	.33	111.27	.01	36.00
21.700	5000.00	19.25	9823.10	528.23	31.35	950.00	.51	71.92	.02	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
21.920	648.00	15.30	8532.28	463.71	27.40	1162.00	.08	463.23	.00	36.00
21.920	1080.00	15.80	8765.85	468.48	27.90	1162.00	.12	285.27	.01	36.00
21.920	1800.00	16.53	9108.96	475.40	28.63	1162.00	.20	177.55	.01	36.00
21.920	3000.00	17.62	9633.84	485.79	29.72	1162.00	.31	112.31	.01	36.00
21.920	5000.00	19.25	10438.39	500.32	31.35	1162.00	.48	72.59	.02	36.00
22.110	648.00	15.30	7913.72	471.00	27.00	1003.00	.08	466.64	.00	36.00
22.110	1080.00	15.80	8150.81	474.96	27.50	1003.00	.13	287.38	.01	36.00
22.110	1800.00	16.53	8498.39	480.71	28.23	1003.00	.21	178.87	.01	36.00
22.110	3000.00	17.62	9028.52	489.34	29.32	1003.00	.33	113.15	.01	36.00
22.110	5000.00	19.25	9838.29	502.25	30.95	1003.00	.51	73.14	.02	36.00
22.300	648.00	15.30	8594.63	469.11	28.30	1003.00	.08	470.33	.00	36.00
22.300	1080.00	15.80	8830.39	471.34	28.80	1003.00	.12	289.65	.00	36.00
22.300	1800.00	16.53	9174.54	474.56	29.53	1003.00	.20	180.29	.01	36.00
22.300	3000.00	17.62	9696.16	479.41	30.62	1003.00	.31	114.05	.01	36.00
22.300	5000.00	19.25	10485.68	486.66	32.25	1003.00	.48	73.73	.02	36.00
22.520	648.00	15.30	8022.32	468.81	29.00	1162.00	.08	474.33	.00	36.00
22.520	1080.00	15.80	8257.97	470.91	29.50	1162.00	.13	292.12	.01	36.00
22.520	1800.00	16.53	8601.94	473.95	30.23	1162.00	.21	181.83	.01	36.00
22.520	3000.00	17.62	9123.18	478.53	31.32	1162.00	.33	115.03	.01	36.00
22.520	5000.00	19.26	9911.82	485.37	32.96	1162.00	.50	74.37	.02	36.00
22.720	648.00	15.30	9014.12	451.45	27.40	1056.00	.07	478.41	.00	36.00
22.720	1080.00	15.80	9241.28	454.17	27.90	1056.00	.12	294.63	.00	36.00
22.720	1800.00	16.53	9573.50	458.11	28.63	1056.00	.19	183.39	.01	36.00

22.720	3000.00	17.62	10078.42	464.05	29.72	1056.00	.30	116.01	.01	36.00
22.720	5000.00	19.26	10845.60	472.92	31.36	1056.00	.46	75.00	.02	36.00
22.920	648.00	15.30	9718.88	425.07	30.30	1056.00	.07	482.81	.00	36.00
22.920	1080.00	15.80	9932.85	427.77	30.80	1056.00	.11	297.33	.00	36.00
22.920	1800.00	16.53	10245.99	431.69	31.53	1056.00	.18	185.06	.01	36.00
22.920	3000.00	17.62	10722.30	437.59	32.62	1056.00	.28	117.06	.01	36.00
22.920	5000.00	19.26	11446.82	446.42	34.26	1056.00	.44	75.67	.02	36.00
23.130	648.00	15.30	8877.56	464.21	30.20	1109.00	.07	487.03	.00	36.00
23.130	1080.00	15.80	9111.55	468.30	30.70	1109.00	.12	299.93	.00	36.00
23.130	1800.00	16.53	9454.96	473.57	31.43	1109.00	.19	186.68	.01	36.00
23.130	3000.00	17.62	9977.28	479.33	32.52	1109.00	.30	118.09	.01	36.00
23.130	5000.00	19.26	10769.23	485.93	34.16	1109.00	.46	76.34	.02	36.00
23.310	648.00	15.30	9015.00	454.90	33.30	950.00	.07	490.70	.00	36.00
23.310	1080.00	15.80	9244.38	459.10	33.80	950.00	.12	302.19	.00	36.00
23.310	1800.00	16.53	9581.30	465.21	34.53	950.00	.19	188.09	.01	36.00
23.310	3000.00	17.63	10096.52	474.40	35.63	950.00	.30	118.97	.01	36.00
23.310	5000.00	19.27	10884.92	485.40	37.27	950.00	.46	76.91	.02	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
23.420	648.00	15.30	9408.88	416.86	38.20	581.00	.07	493.04	.00	36.00
23.420	1080.00	15.80	9619.28	421.40	38.70	581.00	.11	303.63	.00	36.00
23.420	1800.00	16.53	9928.97	427.99	39.43	581.00	.18	188.98	.01	36.00
23.420	3000.00	17.63	10404.61	440.48	40.53	581.00	.29	119.53	.01	36.00
23.420	5000.00	19.27	11146.62	464.27	42.17	581.00	.45	77.27	.02	36.00
23.630	648.00	15.30	9841.99	505.12	29.40	1109.00	.07	497.72	.00	36.00
23.630	1080.00	15.80	10096.73	509.60	29.90	1109.00	.11	306.51	.00	36.00
23.630	1800.00	16.53	10470.37	514.69	30.63	1109.00	.17	190.77	.01	36.00
23.630	3000.00	17.63	11039.32	522.01	31.73	1109.00	.27	120.67	.01	36.00
23.630	5000.00	19.27	11905.99	533.11	33.37	1109.00	.42	78.00	.02	36.00
23.820	648.00	15.30	10835.01	437.03	35.50	1003.00	.06	502.38	.00	36.00
23.820	1080.00	15.80	11055.08	439.43	36.00	1003.00	.10	309.36	.00	36.00
23.820	1800.00	16.53	11376.97	442.93	36.73	1003.00	.16	192.53	.01	36.00
23.820	3000.00	17.63	11866.24	448.18	37.83	1003.00	.25	121.77	.01	36.00
23.820	5000.00	19.27	12609.58	456.05	39.47	1003.00	.40	78.71	.01	36.00
24.000	648.00	15.30	11380.60	458.05	37.60	950.00	.06	507.02	.00	36.00
24.000	1080.00	15.80	11611.59	461.72	38.10	950.00	.09	312.19	.00	36.00
24.000	1800.00	16.53	11950.28	466.41	38.83	950.00	.15	194.28	.01	36.00
24.000	3000.00	17.63	12466.38	473.27	39.93	950.00	.24	122.87	.01	36.00
24.000	5000.00	19.27	13253.27	483.54	41.57	950.00	.38	79.41	.01	36.00
24.200	648.00	15.30	14194.32	594.98	32.20	1056.00	.05	513.44	.00	36.00
24.200	1080.00	15.80	14494.13	598.83	32.70	1056.00	.07	316.13	.00	36.00
24.200	1800.00	16.53	14933.89	608.28	33.43	1056.00	.12	196.71	.00	36.00

	24.200	3000.00	17.63	15613.55	626.30	34.53	1056.00	.19	124.39	.01	36.00
	24.200	5000.00	19.27	16651.03	634.71	36.17	1056.00	.30	80.38	.01	36.00
	24.390	648.00	15.30	14558.04	793.46	25.40	1003.00	.04	519.70	.00	36.00
	24.390	1080.00	15.80	14958.30	800.11	25.90	1003.00	.07	319.99	.00	36.00
	24.390	1800.00	16.53	15545.78	808.81	26.63	1003.00	.12	199.12	.00	36.00
	24.390	3000.00	17.63	16441.00	820.17	27.73	1003.00	.18	125.92	.01	36.00
	24.390	5000.00	19.28	17802.62	833.00	29.38	1003.00	.28	81.38	.01	36.00
	24.620	648.00	15.30	16313.96	824.73	30.40	1214.00	.04	528.19	.00	36.00
	24.620	1080.00	15.80	16729.39	829.19	30.90	1214.00	.06	325.21	.00	36.00
	24.620	1800.00	16.53	17337.20	835.67	31.63	1214.00	.10	202.37	.00	36.00
	24.620	3000.00	17.63	18261.35	845.84	32.73	1214.00	.16	127.97	.01	36.00
	24.620	5000.00	19.28	19667.69	862.04	34.38	1214.00	.25	82.70	.01	36.00
*	25.120	648.00	34.00	22663.24	832.16	44.90	2640.00	.03	553.84	.00	36.00
*	25.120	1080.00	34.00	22663.24	832.16	44.90	2640.00	.05	340.60	.00	36.00
*	25.120	1800.00	34.00	22663.24	832.16	44.90	2640.00	.08	211.60	.00	36.00
*	25.120	3000.00	34.00	22663.24	832.16	44.90	2640.00	.13	133.51	.00	36.00
*	25.120	5000.00	34.00	22663.24	832.16	44.90	2640.00	.22	86.03	.01	36.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	25.330	648.00	34.00	21524.57	812.62	44.80	1109.00	.03	564.07	.00	36.00
	25.330	1080.00	34.00	21524.59	812.62	44.80	1109.00	.05	346.74	.00	36.00
	25.330	1800.00	34.00	21524.63	812.62	44.80	1109.00	.08	215.29	.00	36.00
	25.330	3000.00	34.00	21524.74	812.62	44.80	1109.00	.14	135.72	.00	36.00
	25.330	5000.00	34.00	21524.99	812.62	44.80	1109.00	.23	87.35	.01	36.00
*	25.520	648.00	34.00	31426.25	1090.09	40.80	1003.00	.02	577.58	.00	36.00
*	25.520	1080.00	34.00	31426.28	1090.09	40.80	1003.00	.03	354.85	.00	36.00
*	25.520	1800.00	34.00	31426.35	1090.09	40.80	1003.00	.06	220.15	.00	36.00
*	25.520	3000.00	34.00	31426.53	1090.10	40.80	1003.00	.10	138.64	.00	36.00
*	25.520	5000.00	34.00	31427.05	1090.11	40.80	1003.00	.16	89.10	.01	36.00
*	25.720	648.00	34.00	21038.57	896.07	56.00	1056.00	.03	587.11	.00	36.00
*	25.720	1080.00	34.00	21038.62	896.07	56.00	1056.00	.05	360.56	.00	36.00
*	25.720	1800.00	34.00	21038.72	896.07	56.00	1056.00	.09	223.58	.00	36.00
*	25.720	3000.00	34.00	21039.01	896.07	56.00	1056.00	.14	140.70	.01	36.00
*	25.720	5000.00	34.00	21039.82	896.08	56.00	1056.00	.24	90.34	.01	36.00
*	25.920	648.00	34.00	25963.74	742.68	59.30	1056.00	.02	598.86	.00	36.00
*	25.920	1080.00	34.00	25963.77	742.68	59.30	1056.00	.04	367.62	.00	36.00
*	25.920	1800.00	34.00	25963.87	742.68	59.30	1056.00	.07	227.81	.00	36.00
*	25.920	3000.00	34.00	25964.10	742.69	59.30	1056.00	.12	143.24	.00	36.00
*	25.920	5000.00	34.00	25964.77	742.70	59.30	1056.00	.19	91.86	.01	36.00
*	26.130	648.00	34.00	17479.10	598.44	40.00	1109.00	.04	607.17	.00	36.00
*	26.130	1080.00	34.00	17479.13	598.44	40.00	1109.00	.06	372.60	.00	36.00
*	26.130	1800.00	34.00	17479.24	598.44	40.00	1109.00	.10	230.80	.00	36.00

*	26.130	3000.00	34.00	17479.52	598.44	40.00	1109.00	.17	145.03	.01	36.00
*	26.130	5000.00	34.00	17480.32	598.45	40.00	1109.00	.29	92.94	.01	36.00
	26.320	648.00	34.00	19383.40	622.07	43.60	1003.00	.03	615.50	.00	36.00
	26.320	1080.00	34.00	19383.44	622.07	43.60	1003.00	.06	377.60	.00	36.00
	26.320	1800.00	34.00	19383.54	622.07	43.60	1003.00	.09	233.80	.00	36.00
	26.320	3000.00	34.00	19383.81	622.07	43.60	1003.00	.15	146.83	.00	36.00
	26.320	5000.00	34.00	19384.58	622.08	43.60	1003.00	.26	94.02	.01	36.00
	26.510	648.00	34.00	19908.45	735.78	42.10	1003.00	.03	624.06	.00	36.00
	26.510	1080.00	34.00	19908.52	735.78	42.10	1003.00	.05	382.74	.00	36.00
	26.510	1800.00	34.00	19908.69	735.79	42.10	1003.00	.09	236.88	.00	36.00
	26.510	3000.00	34.00	19909.15	735.79	42.10	1003.00	.15	148.68	.01	36.00
	26.510	5000.00	34.00	19910.46	735.80	42.10	1003.00	.25	95.13	.01	36.00
	26.700	648.00	34.00	18841.04	682.98	41.30	1003.00	.03	632.16	.00	36.00
	26.700	1080.00	34.00	18841.10	682.98	41.30	1003.00	.06	387.60	.00	36.00
	26.700	1800.00	34.00	18841.29	682.99	41.30	1003.00	.10	239.80	.00	36.00
	26.700	3000.00	34.00	18841.79	683.00	41.30	1003.00	.16	150.43	.01	36.00
	26.700	5000.00	34.00	18843.20	683.02	41.30	1003.00	.27	96.18	.01	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
26.910	648.00	34.00	17751.94	717.09	36.10	1109.00	.04	640.60	.00	36.00
26.910	1080.00	34.00	17752.02	717.09	36.10	1109.00	.06	392.66	.00	36.00
26.910	1800.00	34.00	17752.24	717.10	36.10	1109.00	.10	242.84	.00	36.00
26.910	3000.00	34.00	17752.85	717.10	36.10	1109.00	.17	152.25	.01	36.00
26.910	5000.00	34.00	17754.56	717.13	36.10	1109.00	.28	97.27	.01	36.00
27.100	648.00	34.00	17696.56	637.49	39.90	1003.00	.04	648.21	.00	36.00
27.100	1080.00	34.00	17696.64	637.49	39.90	1003.00	.06	397.23	.00	36.00
27.100	1800.00	34.00	17696.88	637.49	39.90	1003.00	.10	245.58	.00	36.00
27.100	3000.00	34.00	17697.50	637.49	39.90	1003.00	.17	153.90	.01	36.00
27.100	5000.00	34.00	17699.26	637.50	39.90	1003.00	.28	98.26	.01	36.00
27.300	648.00	34.00	16877.40	567.99	44.10	1056.00	.04	655.85	.00	36.00
27.300	1080.00	34.00	16877.48	567.99	44.10	1056.00	.06	401.81	.00	36.00
27.300	1800.00	34.00	16877.72	567.99	44.10	1056.00	.11	248.33	.00	36.00
27.300	3000.00	34.00	16878.37	568.00	44.10	1056.00	.18	155.55	.01	36.00
27.300	5000.00	34.00	16880.18	568.00	44.10	1056.00	.30	99.25	.01	36.00
27.500	648.00	34.00	17322.55	508.79	47.30	1056.00	.04	663.69	.00	36.00
27.500	1080.00	34.00	17322.63	508.79	47.30	1056.00	.06	406.52	.00	36.00
27.500	1800.00	34.00	17322.87	508.79	47.30	1056.00	.10	251.15	.00	36.00
27.500	3000.00	34.00	17323.50	508.80	47.30	1056.00	.17	157.24	.01	36.00
27.500	5000.00	34.01	17325.29	508.82	47.31	1056.00	.29	100.26	.01	36.00
27.710	648.00	34.00	17574.21	480.15	49.10	1109.00	.04	672.05	.00	36.00
27.710	1080.00	34.00	17574.30	480.16	49.10	1109.00	.06	411.53	.00	36.00
27.710	1800.00	34.00	17574.54	480.16	49.10	1109.00	.10	254.16	.00	36.00

27.710	3000.00	34.00	17575.21	480.17	49.10	1109.00	.17	159.05	.00	36.00
27.710	5000.00	34.01	17577.08	480.18	49.11	1109.00	.28	101.35	.01	36.00
27.890	648.00	34.00	17550.92	470.85	53.20	950.00	.04	679.19	.00	36.00
27.890	1080.00	34.00	17551.01	470.85	53.20	950.00	.06	415.82	.00	36.00
27.890	1800.00	34.00	17551.26	470.85	53.20	950.00	.10	256.73	.00	36.00
27.890	3000.00	34.00	17551.95	470.86	53.20	950.00	.17	160.59	.00	36.00
27.890	5000.00	34.01	17553.90	470.89	53.21	950.00	.28	102.27	.01	36.00
28.100	648.00	34.00	18921.02	522.73	59.90	1109.00	.03	688.19	.00	36.00
28.100	1080.00	34.00	18921.14	522.73	59.90	1109.00	.06	421.21	.00	36.00
28.100	1800.00	34.00	18921.43	522.73	59.90	1109.00	.10	259.97	.00	36.00
28.100	3000.00	34.00	18922.26	522.74	59.90	1109.00	.16	162.53	.00	36.00
28.100	5000.00	34.01	18924.54	522.77	59.91	1109.00	.26	103.44	.01	36.00
28.300	648.00	34.00	18084.11	458.87	57.20	1056.00	.04	696.38	.00	36.00
28.300	1080.00	34.00	18084.22	458.87	57.20	1056.00	.06	426.13	.00	36.00
28.300	1800.00	34.00	18084.50	458.88	57.20	1056.00	.10	262.92	.00	36.00
28.300	3000.00	34.00	18085.28	458.89	57.20	1056.00	.17	164.30	.00	36.00
28.300	5000.00	34.01	18087.46	458.93	57.21	1056.00	.28	104.50	.01	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
28.510	648.00	34.00	16649.41	409.31	60.30	1109.00	.04	704.29	.00	36.00
28.510	1080.00	34.00	16649.50	409.31	60.30	1109.00	.06	430.87	.00	36.00
28.510	1800.00	34.00	16649.77	409.31	60.30	1109.00	.11	265.77	.00	36.00
28.510	3000.00	34.00	16650.49	409.32	60.30	1109.00	.18	166.01	.00	36.00
28.510	5000.00	34.01	16652.51	409.33	60.31	1109.00	.30	105.53	.01	36.00
28.700	648.00	34.00	16875.04	424.29	54.20	1003.00	.04	711.55	.00	36.00
28.700	1080.00	34.00	16875.15	424.29	54.20	1003.00	.06	435.23	.00	36.00
28.700	1800.00	34.00	16875.43	424.30	54.20	1003.00	.11	268.38	.00	36.00
28.700	3000.00	34.00	16876.21	424.31	54.20	1003.00	.18	167.58	.00	36.00
28.700	5000.00	34.01	16878.38	424.35	54.21	1003.00	.30	106.47	.01	36.00
28.900	648.00	34.00	17773.37	451.40	54.10	1056.00	.04	719.59	.00	36.00
28.900	1080.00	34.00	17773.48	451.40	54.10	1056.00	.06	440.06	.00	36.00
28.900	1800.00	34.00	17773.80	451.40	54.10	1056.00	.10	271.27	.00	36.00
28.900	3000.00	34.00	17774.68	451.41	54.10	1056.00	.17	169.32	.00	36.00
28.900	5000.00	34.01	17777.14	451.43	54.11	1056.00	.28	107.51	.01	36.00
29.090	648.00	34.00	17399.62	430.82	61.90	1003.00	.04	727.07	.00	36.00
29.090	1080.00	34.00	17399.73	430.83	61.90	1003.00	.06	444.54	.00	36.00
29.090	1800.00	34.00	17400.06	430.84	61.90	1003.00	.10	273.97	.00	36.00
29.090	3000.00	34.00	17400.95	430.87	61.90	1003.00	.17	170.93	.00	36.00
29.090	5000.00	34.01	17403.43	430.95	61.91	1003.00	.29	108.48	.01	36.00
29.300	648.00	34.00	18840.30	354.89	77.00	1109.00	.03	736.03	.00	36.00
29.300	1080.00	34.00	18840.40	354.89	77.00	1109.00	.06	449.92	.00	36.00
29.300	1800.00	34.00	18840.68	354.89	77.00	1109.00	.10	277.19	.00	36.00

	29.300	3000.00	34.00	18841.45	354.90	77.00	1109.00	.16	172.87	.00	36.00
	29.300	5000.00	34.01	18843.58	354.92	77.01	1109.00	.27	109.64	.01	36.00
	29.500	648.00	34.00	25050.66	462.31	86.00	1056.00	.03	747.37	.00	36.00
	29.500	1080.00	34.00	25050.80	462.31	86.00	1056.00	.04	456.72	.00	36.00
	29.500	1800.00	34.00	25051.18	462.31	86.00	1056.00	.07	281.27	.00	36.00
	29.500	3000.00	34.00	25052.22	462.32	86.00	1056.00	.12	175.32	.00	36.00
	29.500	5000.00	34.01	25055.12	462.35	86.01	1056.00	.20	111.11	.00	36.00
*	29.700	648.00	34.00	20833.79	608.39	53.00	1056.00	.03	756.80	.00	36.00
*	29.700	1080.00	34.00	20833.98	608.40	53.00	1056.00	.05	462.38	.00	36.00
*	29.700	1800.00	34.00	20834.51	608.40	53.00	1056.00	.09	284.67	.00	36.00
*	29.700	3000.00	34.00	20835.96	608.42	53.00	1056.00	.14	177.35	.00	36.00
*	29.700	5000.00	34.01	20840.01	608.46	53.01	1056.00	.24	112.33	.01	36.00
	29.900	648.00	34.00	20327.86	629.04	44.90	1056.00	.03	766.00	.00	36.00
	29.900	1080.00	34.00	20328.05	629.04	44.90	1056.00	.05	467.90	.00	36.00
	29.900	1800.00	34.00	20328.61	629.04	44.90	1056.00	.09	287.98	.00	36.00
	29.900	3000.00	34.00	20330.12	629.05	44.90	1056.00	.15	179.34	.00	36.00
	29.900	5000.00	34.01	20334.32	629.08	44.91	1056.00	.25	113.53	.01	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
30.080	648.00	34.00	19877.46	708.29	39.30	950.00	.03	774.10	.00	36.00
30.080	1080.00	34.00	19877.68	708.29	39.30	950.00	.05	472.76	.00	36.00
30.080	1800.00	34.00	19878.33	708.30	39.30	950.00	.09	290.90	.00	36.00
30.080	3000.00	34.00	19880.09	708.31	39.30	950.00	.15	181.09	.01	36.00
30.080	5000.00	34.01	19885.00	708.36	39.31	950.00	.25	114.58	.01	36.00
30.280	648.00	34.00	19810.53	751.38	39.20	1056.00	.03	783.06	.00	36.00
30.280	1080.00	34.00	19810.77	751.38	39.20	1056.00	.05	478.14	.00	36.00
30.280	1800.00	34.00	19811.48	751.40	39.20	1056.00	.09	294.12	.00	36.00
30.280	3000.00	34.00	19813.44	751.44	39.20	1056.00	.15	183.03	.01	36.00
30.280	5000.00	34.01	19818.86	751.56	39.21	1056.00	.25	115.74	.01	36.00
30.490	648.00	34.00	19353.07	848.74	38.90	1109.00	.03	792.26	.00	36.00
30.490	1080.00	34.00	19353.37	848.75	38.90	1109.00	.06	483.66	.00	36.00
30.490	1800.00	34.00	19354.21	848.78	38.90	1109.00	.09	297.44	.00	36.00
30.490	3000.00	34.00	19356.53	848.86	38.90	1109.00	.15	185.02	.01	36.00
30.490	5000.00	34.01	19362.97	849.10	38.91	1109.00	.26	116.93	.01	36.00
30.690	648.00	34.00	19158.82	816.00	38.80	1056.00	.03	800.94	.00	36.00
30.690	1080.00	34.00	19159.12	816.01	38.80	1056.00	.06	488.86	.00	36.00
30.690	1800.00	34.00	19159.98	816.02	38.80	1056.00	.09	300.56	.00	36.00
30.690	3000.00	34.00	19162.32	816.05	38.80	1056.00	.16	186.89	.01	36.00
30.690	5000.00	34.01	19168.85	816.13	38.81	1056.00	.26	118.06	.01	36.00
30.880	648.00	34.00	19542.75	780.76	39.10	1003.00	.03	809.34	.00	36.00
30.880	1080.00	34.00	19543.04	780.77	39.10	1003.00	.06	493.90	.00	36.00
30.880	1800.00	34.00	19543.91	780.78	39.10	1003.00	.09	303.58	.00	36.00

30.880	3000.00	34.00	19546.27	780.83	39.10	1003.00	.15	188.71	.01	36.00
30.880	5000.00	34.01	19552.84	780.94	39.11	1003.00	.26	119.15	.01	36.00
31.080	648.00	34.00	19305.17	720.83	41.00	1056.00	.03	818.08	.00	36.00
31.080	1080.00	34.00	19305.45	720.84	41.00	1056.00	.06	499.15	.00	36.00
31.080	1800.00	34.00	19306.28	720.85	41.00	1056.00	.09	306.73	.00	36.00
31.080	3000.00	34.00	19308.56	720.90	41.00	1056.00	.16	190.59	.01	36.00
31.080	5000.00	34.01	19314.90	721.02	41.01	1056.00	.26	120.28	.01	36.00
31.290	648.00	34.00	20060.91	736.37	38.70	1109.00	.03	827.62	.00	36.00
31.290	1080.00	34.00	20061.21	736.38	38.70	1109.00	.05	504.87	.00	36.00
31.290	1800.00	34.00	20062.09	736.38	38.70	1109.00	.09	310.16	.00	36.00
31.290	3000.00	34.01	20064.50	736.41	38.71	1109.00	.15	192.65	.01	36.00
31.290	5000.00	34.01	20071.21	736.47	38.71	1109.00	.25	121.52	.01	36.00
31.500	648.00	34.00	19828.56	738.92	39.20	1109.00	.03	837.04	.00	36.00
31.500	1080.00	34.00	19828.88	738.92	39.20	1109.00	.05	510.53	.00	36.00
31.500	1800.00	34.00	19829.80	738.94	39.20	1109.00	.09	313.56	.00	36.00
31.500	3000.00	34.01	19832.32	738.98	39.21	1109.00	.15	194.69	.01	36.00
31.500	5000.00	34.01	19839.32	739.10	39.21	1109.00	.25	122.74	.01	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
31.690	648.00	34.00	19617.49	640.28	43.20	1003.00	.03	845.48	.00	36.00
31.690	1080.00	34.00	19617.77	640.29	43.20	1003.00	.06	515.59	.00	36.00
31.690	1800.00	34.00	19618.59	640.30	43.20	1003.00	.09	316.59	.00	36.00
31.690	3000.00	34.01	19620.84	640.32	43.21	1003.00	.15	196.51	.00	36.00
31.690	5000.00	34.02	19627.08	640.40	43.22	1003.00	.25	123.83	.01	36.00
31.900	648.00	34.00	19582.12	638.18	45.10	1109.00	.03	854.79	.00	36.00
31.900	1080.00	34.00	19582.42	638.19	45.10	1109.00	.06	521.17	.00	36.00
31.900	1800.00	34.00	19583.25	638.20	45.10	1109.00	.09	319.95	.00	36.00
31.900	3000.00	34.01	19585.56	638.23	45.11	1109.00	.15	198.52	.00	36.00
31.900	5000.00	34.02	19591.96	638.33	45.12	1109.00	.26	125.04	.01	36.00
32.100	648.00	34.00	18251.24	662.23	46.80	1056.00	.04	863.05	.00	36.00
32.100	1080.00	34.00	18251.55	662.24	46.80	1056.00	.06	526.13	.00	36.00
32.100	1800.00	34.00	18252.44	662.26	46.80	1056.00	.10	322.92	.00	36.00
32.100	3000.00	34.01	18254.89	662.33	46.81	1056.00	.16	200.31	.01	36.00
32.100	5000.00	34.02	18261.70	662.54	46.82	1056.00	.27	126.11	.01	36.00
32.300	648.00	34.00	17798.07	781.01	42.10	1056.00	.04	871.10	.00	36.00
32.300	1080.00	34.00	17798.45	781.03	42.10	1056.00	.06	530.96	.00	36.00
32.300	1800.00	34.00	17799.53	781.07	42.10	1056.00	.10	325.82	.00	36.00
32.300	3000.00	34.01	17802.50	781.17	42.11	1056.00	.17	202.05	.01	36.00
32.300	5000.00	34.02	17810.76	781.46	42.12	1056.00	.28	127.16	.01	36.00
32.500	648.00	34.00	18815.47	813.95	43.80	1056.00	.03	879.62	.00	36.00
32.500	1080.00	34.00	18815.89	813.96	43.80	1056.00	.06	536.07	.00	36.00
32.500	1800.00	34.00	18817.06	813.99	43.80	1056.00	.10	328.89	.00	36.00

32.500	3000.00	34.01	18820.31	814.08	43.81	1056.00	.16	203.89	.01	36.00
32.500	5000.00	34.02	18829.32	814.32	43.82	1056.00	.27	128.26	.01	36.00
32.690	648.00	34.00	19730.97	662.83	47.10	1003.00	.03	888.11	.00	36.00
32.690	1080.00	34.00	19731.33	662.85	47.10	1003.00	.05	541.16	.00	36.00
32.690	1800.00	34.00	19732.33	662.89	47.10	1003.00	.09	331.94	.00	36.00
32.690	3000.00	34.01	19735.11	662.99	47.11	1003.00	.15	205.72	.00	36.00
32.690	5000.00	34.02	19742.82	663.28	47.12	1003.00	.25	129.36	.01	36.00
32.890	648.00	34.00	20237.85	671.43	48.00	1056.00	.03	897.27	.00	36.00
32.890	1080.00	34.00	20238.23	671.44	48.00	1056.00	.05	546.66	.00	36.00
32.890	1800.00	34.00	20239.28	671.45	48.00	1056.00	.09	335.24	.00	36.00
32.890	3000.00	34.01	20242.17	671.50	48.01	1056.00	.15	207.70	.00	36.00
32.890	5000.00	34.02	20250.19	671.61	48.02	1056.00	.25	130.55	.01	36.00
33.100	648.00	34.00	19258.86	659.61	44.90	1109.00	.03	906.42	.00	36.00
33.100	1080.00	34.00	19259.22	659.61	44.90	1109.00	.06	552.16	.00	36.00
33.100	1800.00	34.00	19260.28	659.62	44.90	1109.00	.09	338.54	.00	36.00
33.100	3000.00	34.01	19263.17	659.64	44.91	1109.00	.16	209.68	.01	36.00
33.100	5000.00	34.02	19271.21	659.69	44.92	1109.00	.26	131.74	.01	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
33.520	648.00	34.00	19609.12	662.11	41.80	2218.00	.03	925.07	.00	36.00
33.520	1080.00	34.00	19609.50	662.11	41.80	2218.00	.06	563.34	.00	36.00
33.520	1800.00	34.00	19610.61	662.13	41.80	2218.00	.09	345.25	.00	36.00
33.520	3000.00	34.01	19613.65	662.16	41.81	2218.00	.15	213.71	.00	36.00
33.520	5000.00	34.02	19622.08	662.25	41.82	2218.00	.25	134.15	.01	36.00
33.740	648.00	34.00	19858.38	646.86	40.00	1162.00	.03	934.96	.00	36.00
33.740	1080.00	34.00	19858.78	646.86	40.00	1162.00	.05	569.28	.00	36.00
33.740	1800.00	34.00	19859.89	646.88	40.00	1162.00	.09	348.81	.00	36.00
33.740	3000.00	34.01	19862.95	646.92	40.01	1162.00	.15	215.84	.00	36.00
33.740	5000.00	34.02	19871.43	647.02	40.02	1162.00	.25	135.44	.01	36.00
33.950	648.00	34.00	20045.37	656.68	42.00	1109.00	.03	944.49	.00	36.00
33.950	1080.00	34.00	20045.78	656.68	42.00	1109.00	.05	574.99	.00	36.00
33.950	1800.00	34.00	20046.93	656.70	42.00	1109.00	.09	352.24	.00	36.00
33.950	3000.00	34.01	20050.10	656.75	42.01	1109.00	.15	217.90	.00	36.00
33.950	5000.00	34.02	20058.91	656.87	42.02	1109.00	.25	136.67	.01	36.00
34.170	648.00	34.00	19689.93	635.91	45.00	1162.00	.03	954.29	.00	36.00
34.170	1080.00	34.00	19690.34	635.91	45.00	1162.00	.05	580.88	.00	36.00
34.170	1800.00	34.00	19691.47	635.93	45.00	1162.00	.09	355.77	.00	36.00
34.170	3000.00	34.01	19694.61	635.98	45.01	1162.00	.15	220.02	.00	36.00
34.170	5000.00	34.02	19703.33	636.11	45.02	1162.00	.25	137.94	.01	36.00
34.390	648.00	34.00	20360.55	597.38	48.00	1162.00	.03	964.44	.00	36.00
34.390	1080.00	34.00	20360.95	597.39	48.00	1162.00	.05	586.96	.00	36.00
34.390	1800.00	34.00	20362.04	597.40	48.00	1162.00	.09	359.42	.00	36.00

34.390	3000.00	34.01	20365.05	597.42	48.01	1162.00	.15	222.21	.00	36.00
34.390	5000.00	34.02	20373.39	597.50	48.02	1162.00	.25	139.26	.01	36.00
34.600	648.00	34.00	19432.21	647.50	39.10	1109.00	.03	973.67	.00	36.00
34.600	1080.00	34.00	19432.64	647.50	39.10	1109.00	.06	592.51	.00	36.00
34.600	1800.00	34.00	19433.84	647.51	39.10	1109.00	.09	362.75	.00	36.00
34.600	3000.00	34.01	19437.17	647.53	39.11	1109.00	.15	224.21	.00	36.00
34.600	5000.00	34.02	19446.40	647.58	39.12	1109.00	.26	140.46	.01	36.00
34.820	648.00	34.00	19638.92	624.70	40.10	1162.00	.03	983.46	.00	36.00
34.820	1080.00	34.00	19639.34	624.70	40.10	1162.00	.05	598.38	.00	36.00
34.820	1800.00	34.00	19640.53	624.71	40.10	1162.00	.09	366.27	.00	36.00
34.820	3000.00	34.01	19643.79	624.74	40.11	1162.00	.15	226.32	.00	36.00
34.820	5000.00	34.02	19652.86	624.81	40.12	1162.00	.25	141.73	.01	36.00
34.990	648.00	34.00	18893.54	573.73	43.90	898.00	.03	990.73	.00	36.00
34.990	1080.00	34.00	18893.93	573.74	43.90	898.00	.06	602.74	.00	36.00
34.990	1800.00	34.00	18895.04	573.75	43.90	898.00	.10	368.89	.00	36.00
34.990	3000.00	34.01	18898.09	573.78	43.91	898.00	.16	227.89	.00	36.00
34.990	5000.00	34.02	18906.57	573.87	43.92	898.00	.26	142.67	.01	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
35.170	648.00	34.00	17979.78	568.28	41.80	950.00	.04	998.05	.00	36.00
35.170	1080.00	34.00	17980.18	568.28	41.80	950.00	.06	607.13	.00	36.00
35.170	1800.00	34.00	17981.29	568.29	41.80	950.00	.10	371.53	.00	36.00
35.170	3000.00	34.01	17984.35	568.33	41.81	950.00	.17	229.48	.01	36.00
35.170	5000.00	34.02	17992.87	568.42	41.82	950.00	.28	143.62	.01	36.00
35.370	648.00	34.00	17796.64	589.65	41.00	1056.00	.04	1006.11	.00	36.00
35.370	1080.00	34.00	17797.06	589.65	41.00	1056.00	.06	611.97	.00	36.00
35.370	1800.00	34.00	17798.24	589.66	41.00	1056.00	.10	374.43	.00	36.00
35.370	3000.00	34.01	17801.47	589.67	41.01	1056.00	.17	231.22	.01	36.00
35.370	5000.00	34.02	17810.46	589.71	41.02	1056.00	.28	144.66	.01	36.00
35.580	648.00	34.00	17779.75	611.76	41.10	1109.00	.04	1014.56	.00	36.00
35.580	1080.00	34.00	17780.20	611.77	41.10	1109.00	.06	617.04	.00	36.00
35.580	1800.00	34.00	17781.45	611.79	41.10	1109.00	.10	377.47	.00	36.00
35.580	3000.00	34.01	17784.89	611.83	41.11	1109.00	.17	233.04	.01	36.00
35.580	5000.00	34.02	17794.44	611.94	41.12	1109.00	.28	145.76	.01	36.00
35.790	648.00	34.00	18342.61	819.14	39.00	1109.00	.04	1023.28	.00	36.00
35.790	1080.00	34.00	18343.22	819.16	39.00	1109.00	.06	622.27	.00	36.00
35.790	1800.00	34.00	18344.94	819.21	39.00	1109.00	.10	380.61	.00	36.00
35.790	3000.00	34.01	18349.65	819.34	39.01	1109.00	.16	234.93	.01	36.00
35.790	5000.00	34.03	18362.77	819.72	39.03	1109.00	.27	146.89	.01	36.00
35.930	648.00	34.00	18573.75	764.88	39.00	739.00	.03	1029.16	.00	36.00
35.930	1080.00	34.00	18574.33	764.91	39.00	739.00	.06	625.80	.00	36.00
35.930	1800.00	34.00	18575.97	764.97	39.00	739.00	.10	382.73	.00	36.00

35.930	3000.00	34.01	18580.49	765.15	39.01	739.00	.16	236.20	.01	36.00
35.930	5000.00	34.03	18593.05	765.65	39.03	739.00	.27	147.65	.01	36.00
36.150	648.00	34.00	18755.89	703.89	39.10	1162.00	.03	1038.51	.00	36.00
36.150	1080.00	34.00	18756.44	703.90	39.10	1162.00	.06	631.41	.00	36.00
36.150	1800.00	34.00	18758.00	703.93	39.10	1162.00	.10	386.09	.00	36.00
36.150	3000.00	34.01	18762.29	704.00	39.11	1162.00	.16	238.22	.01	36.00
36.150	5000.00	34.03	18774.21	704.20	39.13	1162.00	.27	148.87	.01	36.00
36.260	648.00	34.00	18047.99	572.90	46.90	581.00	.04	1043.00	.00	36.00
36.260	1080.00	34.00	18048.44	572.90	46.90	581.00	.06	634.11	.00	36.00
36.260	1800.00	34.00	18049.73	572.92	46.90	581.00	.10	387.71	.00	36.00
36.260	3000.00	34.01	18053.25	572.96	46.91	581.00	.17	239.19	.01	36.00
36.260	5000.00	34.03	18063.05	573.09	46.93	581.00	.28	149.45	.01	36.00
36.450	648.00	34.00	18019.08	575.50	50.10	1003.00	.04	1050.75	.00	36.00
36.450	1080.00	34.00	18019.54	575.50	50.10	1003.00	.06	638.75	.00	36.00
36.450	1800.00	34.00	18020.86	575.51	50.10	1003.00	.10	390.50	.00	36.00
36.450	3000.00	34.01	18024.45	575.54	50.11	1003.00	.17	240.86	.01	36.00
36.450	5000.00	34.03	18034.44	575.64	50.13	1003.00	.28	150.45	.01	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
36.640	648.00	34.00	17910.27	604.32	45.20	1003.00	.04	1058.45	.00	36.00
36.640	1080.00	34.00	17910.77	604.33	45.20	1003.00	.06	643.37	.00	36.00
36.640	1800.00	34.00	17912.16	604.35	45.20	1003.00	.10	393.27	.00	36.00
36.640	3000.00	34.01	17915.99	604.41	45.21	1003.00	.17	242.53	.01	36.00
36.640	5000.00	34.03	17926.65	604.56	45.23	1003.00	.28	151.45	.01	36.00
36.840	648.00	34.00	18031.06	586.82	48.00	1056.00	.04	1066.61	.00	36.00
36.840	1080.00	34.00	18031.54	586.82	48.00	1056.00	.06	648.27	.00	36.00
36.840	1800.00	34.00	18032.93	586.84	48.00	1056.00	.10	396.21	.00	36.00
36.840	3000.00	34.01	18036.72	586.87	48.01	1056.00	.17	244.29	.01	36.00
36.840	5000.00	34.03	18047.27	586.97	48.03	1056.00	.28	152.51	.01	36.00
37.150	648.00	34.00	18328.23	643.47	47.10	1637.00	.04	1079.47	.00	36.00
37.150	1080.00	34.00	18328.78	643.48	47.10	1637.00	.06	655.99	.00	36.00
37.150	1800.00	34.00	18330.34	643.49	47.10	1637.00	.10	400.84	.00	36.00
37.150	3000.00	34.01	18334.63	643.54	47.11	1637.00	.16	247.07	.01	36.00
37.150	5000.00	34.03	18346.54	643.67	47.13	1637.00	.27	154.18	.01	36.00
37.340	648.00	34.00	18746.58	667.08	43.00	1003.00	.03	1087.53	.00	36.00
37.340	1080.00	34.00	18747.16	667.10	43.00	1003.00	.06	660.83	.00	36.00
37.340	1800.00	34.00	18748.81	667.14	43.00	1003.00	.10	403.74	.00	36.00
37.340	3000.00	34.01	18753.33	667.26	43.01	1003.00	.16	248.81	.01	36.00
37.340	5000.00	34.03	18765.92	667.59	43.03	1003.00	.27	155.23	.01	36.00
37.520	648.00	34.00	18872.42	592.72	40.00	950.00	.03	1095.22	.00	36.00
37.520	1080.00	34.00	18872.95	592.73	40.00	950.00	.06	665.44	.00	36.00
37.520	1800.00	34.00	18874.44	592.76	40.00	950.00	.10	406.51	.00	36.00

37.520	3000.00	34.01	18878.53	592.84	40.01	950.00	.16	250.47	.00	36.00
37.520	5000.00	34.03	18889.91	593.06	40.03	950.00	.26	156.22	.01	36.00
37.700	648.00	34.00	18941.20	609.10	41.00	950.00	.03	1102.93	.00	36.00
37.700	1080.00	34.00	18941.74	609.11	41.00	950.00	.06	670.06	.00	36.00
37.700	1800.00	34.00	18943.30	609.15	41.00	950.00	.10	409.29	.00	36.00
37.700	3000.00	34.01	18947.56	609.24	41.01	950.00	.16	252.14	.01	36.00
37.700	5000.00	34.03	18959.42	609.49	41.03	950.00	.26	157.22	.01	36.00
37.890	648.00	34.00	17470.95	558.87	47.70	1003.00	.04	1110.44	.00	36.00
37.890	1080.00	34.00	17471.46	558.88	47.70	1003.00	.06	674.57	.00	36.00
37.890	1800.00	34.00	17472.90	558.90	47.70	1003.00	.10	411.99	.00	36.00
37.890	3000.00	34.01	17476.87	558.95	47.71	1003.00	.17	253.76	.01	36.00
37.890	5000.00	34.03	17487.89	559.08	47.73	1003.00	.29	158.20	.01	36.00
38.050	648.00	34.00	16933.18	663.45	49.10	845.00	.04	1116.58	.00	36.00
38.050	1080.00	34.00	16933.79	663.46	49.10	845.00	.06	678.25	.00	36.00
38.050	1800.00	34.00	16935.52	663.50	49.10	845.00	.11	414.20	.00	36.00
38.050	3000.00	34.01	16940.27	663.59	49.11	845.00	.18	255.09	.01	36.00
38.050	5000.00	34.03	16953.49	663.85	49.13	845.00	.29	158.99	.01	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
38.180	648.00	34.00	17079.20	536.55	50.70	686.00	.04	1121.60	.00	36.00
38.180	1080.00	34.00	17079.70	536.55	50.70	686.00	.06	681.27	.00	36.00
38.180	1800.00	34.00	17081.13	536.57	50.70	686.00	.11	416.01	.00	36.00
38.180	3000.00	34.01	17085.02	536.60	50.71	686.00	.18	256.17	.01	36.00
38.180	5000.00	34.03	17095.86	536.70	50.73	686.00	.29	159.65	.01	36.00
38.400	648.00	34.00	18347.88	617.57	43.30	1162.00	.04	1130.74	.00	36.00
38.400	1080.00	34.00	18348.47	617.58	43.30	1162.00	.06	686.75	.00	36.00
38.400	1800.00	34.00	18350.14	617.60	43.30	1162.00	.10	419.30	.00	36.00
38.400	3000.00	34.01	18354.73	617.67	43.31	1162.00	.16	258.15	.01	36.00
38.400	5000.00	34.03	18367.50	617.87	43.33	1162.00	.27	160.83	.01	36.00
38.580	648.00	34.00	18142.58	652.69	38.30	950.00	.04	1138.13	.00	36.00
38.580	1080.00	34.00	18143.21	652.71	38.30	950.00	.06	691.18	.00	36.00
38.580	1800.00	34.00	18145.02	652.75	38.30	950.00	.10	421.96	.00	36.00
38.580	3000.00	34.01	18149.95	652.88	38.31	950.00	.17	259.74	.01	36.00
38.580	5000.00	34.03	18163.67	653.23	38.33	950.00	.28	161.79	.01	36.00
38.770	648.00	34.00	17852.33	657.16	40.10	1003.00	.04	1145.80	.00	36.00
38.770	1080.00	34.00	17852.98	657.18	40.10	1003.00	.06	695.79	.00	36.00
38.770	1800.00	34.00	17854.82	657.23	40.10	1003.00	.10	424.72	.00	36.00
38.770	3000.00	34.01	17859.87	657.36	40.11	1003.00	.17	261.40	.01	36.00
38.770	5000.00	34.03	17873.90	657.72	40.13	1003.00	.28	162.79	.01	36.00
38.990	648.00	34.00	17790.37	701.65	40.30	1162.00	.04	1154.67	.00	36.00
38.990	1080.00	34.00	17791.07	701.66	40.30	1162.00	.06	701.11	.00	36.00
38.990	1800.00	34.00	17793.07	701.69	40.30	1162.00	.10	427.91	.00	36.00

38.990	3000.00	34.01	17798.57	701.78	40.31	1162.00	.17	263.32	.01	36.00
38.990	5000.00	34.03	17813.83	702.01	40.33	1162.00	.28	163.94	.01	36.00
39.200	648.00	34.00	17464.57	647.92	35.90	1109.00	.04	1162.97	.00	36.00
39.200	1080.00	34.00	17465.23	647.93	35.90	1109.00	.06	706.09	.00	36.00
39.200	1800.00	34.00	17467.12	647.96	35.90	1109.00	.10	430.90	.00	36.00
39.200	3000.00	34.01	17472.30	648.05	35.91	1109.00	.17	265.11	.01	36.00
39.200	5000.00	34.03	17486.70	648.30	35.93	1109.00	.29	165.01	.01	36.00
39.390	648.00	34.00	16657.71	626.29	37.00	1003.00	.04	1170.13	.00	36.00
39.390	1080.00	34.00	16658.37	626.30	37.00	1003.00	.06	710.38	.00	36.00
39.390	1800.00	34.00	16660.22	626.33	37.00	1003.00	.11	433.48	.00	36.00
39.390	3000.00	34.01	16665.32	626.41	37.01	1003.00	.18	266.66	.01	36.00
39.390	5000.00	34.04	16679.47	626.62	37.04	1003.00	.30	165.94	.01	36.00
39.590	648.00	34.00	16722.42	617.65	37.00	1056.00	.04	1177.70	.00	36.00
39.590	1080.00	34.00	16723.07	617.68	37.00	1056.00	.06	714.93	.00	36.00
39.590	1800.00	34.00	16724.93	617.74	37.00	1056.00	.11	436.21	.00	36.00
39.590	3000.00	34.01	16730.04	617.92	37.01	1056.00	.18	268.29	.01	36.00
39.590	5000.00	34.04	16744.26	618.43	37.04	1056.00	.30	166.93	.01	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
39.800	648.00	34.00	16239.14	595.69	36.30	1109.00	.04	1185.42	.00	36.00
39.800	1080.00	34.00	16239.79	595.70	36.30	1109.00	.07	719.56	.00	36.00
39.800	1800.00	34.00	16241.62	595.73	36.30	1109.00	.11	438.99	.00	36.00
39.800	3000.00	34.01	16246.66	595.81	36.31	1109.00	.18	269.96	.01	36.00
39.800	5000.00	34.04	16260.65	596.02	36.34	1109.00	.31	167.93	.01	36.00
39.990	648.00	34.00	17227.39	615.73	39.10	1003.00	.04	1192.83	.00	36.00
39.990	1080.00	34.00	17228.07	615.74	39.10	1003.00	.06	724.00	.00	36.00
39.990	1800.00	34.00	17230.00	615.77	39.10	1003.00	.10	441.65	.00	36.00
39.990	3000.00	34.01	17235.30	615.84	39.11	1003.00	.17	271.56	.01	36.00
39.990	5000.00	34.04	17250.01	616.04	39.14	1003.00	.29	168.89	.01	36.00
40.200	648.00	34.00	17354.87	598.72	39.20	1109.00	.04	1201.08	.00	36.00
40.200	1080.00	34.00	17355.54	598.74	39.20	1109.00	.06	728.95	.00	36.00
40.200	1800.00	34.00	17357.46	598.78	39.20	1109.00	.10	444.62	.00	36.00
40.200	3000.00	34.01	17362.73	598.89	39.21	1109.00	.17	273.35	.01	36.00
40.200	5000.00	34.04	17377.37	599.21	39.24	1109.00	.29	169.96	.01	36.00
40.390	648.00	34.00	17933.90	603.61	41.20	1003.00	.04	1208.79	.00	36.00
40.390	1080.00	34.00	17934.59	603.64	41.20	1003.00	.06	733.58	.00	36.00
40.390	1800.00	34.01	17936.55	603.70	41.21	1003.00	.10	447.40	.00	36.00
40.390	3000.00	34.01	17941.94	603.89	41.21	1003.00	.17	275.01	.01	36.00
40.390	5000.00	34.04	17956.90	604.40	41.24	1003.00	.28	170.96	.01	36.00
40.580	648.00	34.00	18105.54	623.01	39.20	1003.00	.04	1216.57	.00	36.00
40.580	1080.00	34.00	18106.26	623.02	39.20	1003.00	.06	738.25	.00	36.00
40.580	1800.00	34.01	18108.31	623.04	39.21	1003.00	.10	450.20	.00	36.00

40.580	3000.00	34.01	18113.96	623.10	39.21	1003.00	.17	276.69	.01	36.00
40.580	5000.00	34.04	18129.62	623.26	39.24	1003.00	.28	171.97	.01	36.00
40.990	648.00	34.00	15058.72	548.55	42.10	2165.00	.04	1230.55	.00	36.00
40.990	1080.00	34.00	15059.38	548.56	42.10	2165.00	.07	746.64	.00	36.00
40.990	1800.00	34.01	15061.24	548.58	42.11	2165.00	.12	455.24	.00	36.00
40.990	3000.00	34.01	15066.35	548.66	42.11	2165.00	.20	279.71	.01	36.00
40.990	5000.00	34.04	15080.53	548.87	42.14	2165.00	.33	173.78	.01	36.00
41.300	648.00	34.00	16069.80	656.31	38.10	1636.00	.04	1241.82	.00	36.00
41.300	1080.00	34.00	16070.61	656.31	38.10	1636.00	.07	753.40	.00	36.00
41.300	1800.00	34.01	16072.88	656.33	38.11	1636.00	.11	459.29	.00	36.00
41.300	3000.00	34.02	16079.14	656.38	38.12	1636.00	.19	282.15	.01	36.00
41.300	5000.00	34.04	16096.51	656.52	38.14	1636.00	.31	175.25	.01	36.00
41.500	648.00	34.00	18845.87	649.72	47.00	1056.00	.03	1250.35	.00	36.00
41.500	1080.00	34.00	18846.69	649.73	47.00	1056.00	.06	758.52	.00	36.00
41.500	1800.00	34.01	18849.02	649.76	47.01	1056.00	.10	462.37	.00	36.00
41.500	3000.00	34.02	18855.41	649.86	47.02	1056.00	.16	283.99	.01	36.00
41.500	5000.00	34.04	18873.16	650.13	47.04	1056.00	.26	176.35	.01	36.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
*	41.700	648.00	34.00	37560.01	789.04	71.10	1056.00	.02	1267.35	.00	36.00
*	41.700	1080.00	34.00	37561.02	789.06	71.10	1056.00	.03	768.72	.00	36.00
*	41.700	1800.00	34.01	37563.90	789.10	71.11	1056.00	.05	468.49	.00	36.00
*	41.700	3000.00	34.02	37571.84	789.21	71.12	1056.00	.08	287.67	.00	36.00
*	41.700	5000.00	34.04	37593.85	789.52	71.14	1056.00	.13	178.56	.00	36.00
*	41.900	648.00	34.00	23000.27	750.09	63.00	1056.00	.03	1277.76	.00	36.00
*	41.900	1080.00	34.00	23001.25	750.10	63.00	1056.00	.05	774.97	.00	36.00
*	41.900	1800.00	34.01	23004.04	750.13	63.01	1056.00	.08	472.24	.00	36.00
*	41.900	3000.00	34.02	23011.68	750.20	63.02	1056.00	.13	289.92	.00	36.00
*	41.900	5000.00	34.04	23032.92	750.41	63.04	1056.00	.22	179.91	.01	36.00
*	42.100	648.00	34.00	15121.31	471.64	51.10	1056.00	.04	1284.61	.00	36.00
*	42.100	1080.00	34.00	15121.93	471.64	51.10	1056.00	.07	779.07	.00	36.00
*	42.100	1800.00	34.01	15123.66	471.64	51.11	1056.00	.12	474.70	.00	36.00
*	42.100	3000.00	34.02	15128.45	471.65	51.12	1056.00	.20	291.40	.01	36.00
*	42.100	5000.00	34.04	15141.71	471.68	51.14	1056.00	.33	180.80	.01	36.00
	42.300	648.00	34.00	15446.77	465.12	50.00	1056.00	.04	1291.60	.00	36.00
	42.300	1080.00	34.00	15447.38	465.12	50.00	1056.00	.07	783.27	.00	36.00
	42.300	1800.00	34.01	15449.09	465.14	50.01	1056.00	.12	477.22	.00	36.00
	42.300	3000.00	34.02	15453.82	465.19	50.02	1056.00	.19	292.91	.01	36.00
	42.300	5000.00	34.04	15466.93	465.32	50.04	1056.00	.32	181.71	.01	36.00
	42.500	648.00	34.00	15809.10	491.00	48.80	1056.00	.04	1298.76	.00	36.00
	42.500	1080.00	34.00	15809.76	491.01	48.80	1056.00	.07	787.56	.00	36.00
	42.500	1800.00	34.01	15811.61	491.04	48.81	1056.00	.11	479.79	.00	36.00

42.500	3000.00	34.02	15816.70	491.13	48.82	1056.00	.19	294.45	.01	36.00
42.500	5000.00	34.05	15830.83	491.39	48.85	1056.00	.32	182.64	.01	36.00
42.700	648.00	34.00	15780.46	498.99	47.90	1056.00	.04	1305.90	.00	36.00
42.700	1080.00	34.00	15781.14	499.00	47.90	1056.00	.07	791.85	.00	36.00
42.700	1800.00	34.01	15783.05	499.00	47.91	1056.00	.11	482.37	.00	36.00
42.700	3000.00	34.02	15788.30	499.03	47.92	1056.00	.19	296.00	.01	36.00
42.700	5000.00	34.05	15802.87	499.10	47.95	1056.00	.32	183.56	.01	36.00
42.800	648.00	34.00	14749.44	455.21	46.10	528.00	.04	1309.24	.00	36.00
42.800	1080.00	34.00	14750.07	455.21	46.10	528.00	.07	793.85	.00	36.00
42.800	1800.00	34.01	14751.82	455.23	46.11	528.00	.12	483.57	.00	36.00
42.800	3000.00	34.02	14756.65	455.28	46.12	528.00	.20	296.72	.01	36.00
42.800	5000.00	34.05	14770.03	455.42	46.15	528.00	.34	184.00	.01	36.00
43.000	648.00	34.00	14172.23	534.97	46.10	1056.00	.05	1315.65	.00	36.00
43.000	1080.00	34.00	14172.96	534.97	46.10	1056.00	.08	797.70	.00	36.00
43.000	1800.00	34.01	14175.05	534.99	46.11	1056.00	.13	485.88	.00	36.00
43.000	3000.00	34.02	14180.79	535.03	46.12	1056.00	.21	298.11	.01	36.00
43.000	5000.00	34.05	14196.71	535.15	46.15	1056.00	.35	184.83	.01	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
43.200	648.00	34.00	14784.37	639.02	41.00	1056.00	.04	1322.35	.00	36.00
43.200	1080.00	34.00	14785.27	639.03	41.00	1056.00	.07	801.72	.00	36.00
43.200	1800.00	34.01	14787.81	639.07	41.01	1056.00	.12	488.29	.00	36.00
43.200	3000.00	34.02	14794.81	639.16	41.02	1056.00	.20	299.55	.01	36.00
43.200	5000.00	34.05	14814.20	639.42	41.05	1056.00	.34	185.70	.01	36.00
43.300	648.00	34.00	14118.99	658.38	31.90	528.00	.05	1325.54	.00	36.00
43.300	1080.00	34.00	14119.94	658.39	31.90	528.00	.08	803.64	.00	36.00
43.300	1800.00	34.01	14122.60	658.40	31.91	528.00	.13	489.44	.00	36.00
43.300	3000.00	34.02	14129.94	658.44	31.92	528.00	.21	300.24	.01	36.00
43.300	5000.00	34.05	14150.29	658.56	31.95	528.00	.35	186.11	.01	36.00
43.400	648.00	34.00	13539.67	642.19	28.00	528.00	.05	1328.61	.00	36.00
43.400	1080.00	34.00	13540.60	642.20	28.00	528.00	.08	805.47	.00	36.00
43.400	1800.00	34.01	13543.23	642.22	28.01	528.00	.13	490.54	.01	36.00
43.400	3000.00	34.02	13550.47	642.29	28.02	528.00	.22	300.91	.01	36.00
43.400	5000.00	34.05	13570.55	642.49	28.05	528.00	.37	186.51	.01	36.00
43.600	648.00	34.00	13252.14	602.89	28.00	1056.00	.05	1334.61	.00	36.00
43.600	1080.00	34.00	13253.04	602.91	28.00	1056.00	.08	809.07	.00	36.00
43.600	1800.00	34.01	13255.57	602.95	28.01	1056.00	.14	492.70	.01	36.00
43.600	3000.00	34.02	13262.56	603.07	28.02	1056.00	.23	302.20	.01	36.00
43.600	5000.00	34.05	13281.94	603.41	28.05	1056.00	.38	187.29	.01	36.00
43.700	648.00	34.00	14494.31	530.74	36.90	528.00	.04	1337.89	.00	36.00
43.700	1080.00	34.00	14495.11	530.74	36.90	528.00	.07	811.04	.00	36.00
43.700	1800.00	34.01	14497.38	530.76	36.91	528.00	.12	493.88	.00	36.00

	43.700	3000.00	34.02	14503.62	530.81	36.92	528.00	.21	302.91	.01	36.00
	43.700	5000.00	34.05	14520.92	530.94	36.95	528.00	.34	187.72	.01	36.00
*	43.800	648.00	34.00	20034.81	496.26	62.10	528.00	.03	1342.42	.00	36.00
*	43.800	1080.00	34.00	20035.56	496.27	62.10	528.00	.05	813.76	.00	36.00
*	43.800	1800.00	34.01	20037.71	496.28	62.11	528.00	.09	495.52	.00	36.00
*	43.800	3000.00	34.02	20043.65	496.31	62.12	528.00	.15	303.89	.00	36.00
*	43.800	5000.00	34.05	20060.08	496.39	62.15	528.00	.25	188.30	.01	36.00
*	44.000	648.00	34.00	14920.84	497.57	51.20	1056.00	.04	1349.18	.00	36.00
*	44.000	1080.00	34.00	14921.62	497.58	51.20	1056.00	.07	817.82	.00	36.00
*	44.000	1800.00	34.01	14923.83	497.59	51.21	1056.00	.12	497.95	.00	36.00
*	44.000	3000.00	34.02	14929.91	497.63	51.22	1056.00	.20	305.35	.01	36.00
*	44.000	5000.00	34.05	14946.78	497.75	51.25	1056.00	.33	189.18	.01	36.00
	44.200	648.00	34.00	13386.49	492.83	34.50	1056.00	.05	1355.24	.00	36.00
	44.200	1080.00	34.00	13387.26	492.84	34.50	1056.00	.08	821.45	.00	36.00
	44.200	1800.00	34.01	13389.44	492.86	34.51	1056.00	.13	500.13	.00	36.00
	44.200	3000.00	34.02	13395.45	492.91	34.52	1056.00	.22	306.66	.01	36.00
	44.200	5000.00	34.05	13412.11	493.04	34.55	1056.00	.37	189.97	.01	36.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	44.400	648.00	34.00	13332.48	504.65	43.80	1056.00	.05	1361.27	.00	36.00
	44.400	1080.00	34.00	13333.29	504.67	43.80	1056.00	.08	825.07	.00	36.00
	44.400	1800.00	34.01	13335.57	504.70	43.81	1056.00	.13	502.30	.00	36.00
	44.400	3000.00	34.02	13341.84	504.81	43.82	1056.00	.22	307.97	.01	36.00
	44.400	5000.00	34.05	13359.23	505.09	43.85	1056.00	.37	190.75	.01	36.00
	44.500	648.00	34.00	14650.24	453.42	47.10	528.00	.04	1364.59	.00	36.00
	44.500	1080.00	34.00	14650.98	453.42	47.10	528.00	.07	827.06	.00	36.00
	44.500	1800.00	34.01	14653.05	453.43	47.11	528.00	.12	503.50	.00	36.00
	44.500	3000.00	34.02	14658.76	453.46	47.12	528.00	.20	308.68	.01	36.00
	44.500	5000.00	34.05	14674.60	453.55	47.15	528.00	.34	191.18	.01	36.00
*	44.600	648.00	34.00	18714.44	475.60	68.50	528.00	.03	1368.82	.00	36.00
*	44.600	1080.00	34.00	18715.22	475.60	68.50	528.00	.06	829.61	.00	36.00
*	44.600	1800.00	34.01	18717.43	475.62	68.51	528.00	.10	505.02	.00	36.00
*	44.600	3000.00	34.02	18723.50	475.67	68.52	528.00	.16	309.60	.00	36.00
*	44.600	5000.00	34.06	18740.34	475.82	68.56	528.00	.27	191.73	.01	36.00
	44.700	648.00	34.00	15650.19	481.21	50.80	528.00	.04	1372.36	.00	36.00
	44.700	1080.00	34.00	15650.99	481.23	50.80	528.00	.07	831.73	.00	36.00
	44.700	1800.00	34.01	15653.26	481.28	50.81	528.00	.11	506.30	.00	36.00
	44.700	3000.00	34.02	15659.50	481.40	50.82	528.00	.19	310.36	.01	36.00
	44.700	5000.00	34.06	15676.80	481.75	50.86	528.00	.32	192.19	.01	36.00
	44.900	648.00	34.00	13489.56	404.97	49.70	1056.00	.05	1378.47	.00	36.00
	44.900	1080.00	34.00	13490.24	404.97	49.70	1056.00	.08	835.39	.00	36.00
	44.900	1800.00	34.01	13492.14	404.99	49.71	1056.00	.13	508.50	.00	36.00

44.900	3000.00	34.02	13497.40	405.03	49.72	1056.00	.22	311.68	.01	36.00
44.900	5000.00	34.06	13511.99	405.16	49.76	1056.00	.37	192.98	.01	36.00
45.100	648.00	34.00	13916.79	442.23	47.00	1056.00	.05	1384.77	.00	36.00
45.100	1080.00	34.00	13917.54	442.24	47.00	1056.00	.08	839.17	.00	36.00
45.100	1800.00	34.01	13919.65	442.26	47.01	1056.00	.13	510.77	.00	36.00
45.100	3000.00	34.02	13925.45	442.30	47.02	1056.00	.22	313.05	.01	36.00
45.100	5000.00	34.06	13941.54	442.44	47.06	1056.00	.36	193.80	.01	36.00
45.300	648.00	34.00	15271.41	492.91	43.00	1056.00	.04	1391.68	.00	36.00
45.300	1080.00	34.00	15272.26	492.92	43.00	1056.00	.07	843.32	.00	36.00
45.300	1800.00	34.01	15274.65	492.93	43.01	1056.00	.12	513.25	.00	36.00
45.300	3000.00	34.02	15281.25	492.96	43.02	1056.00	.20	314.54	.01	36.00
45.300	5000.00	34.06	15299.52	493.04	43.06	1056.00	.33	194.70	.01	36.00
45.500	648.00	34.00	13696.54	474.09	46.10	1056.00	.05	1397.88	.00	36.00
45.500	1080.00	34.00	13697.37	474.10	46.10	1056.00	.08	847.04	.00	36.00
45.500	1800.00	34.01	13699.71	474.14	46.11	1056.00	.13	515.49	.00	36.00
45.500	3000.00	34.02	13706.17	474.25	46.12	1056.00	.22	315.88	.01	36.00
45.500	5000.00	34.06	13724.09	474.54	46.16	1056.00	.36	195.50	.01	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
45.600	648.00	34.00	13888.98	456.71	48.10	528.00	.05	1401.03	.00	36.00
45.600	1080.00	34.00	13889.78	456.72	48.10	528.00	.08	848.93	.00	36.00
45.600	1800.00	34.01	13892.04	456.76	48.11	528.00	.13	516.62	.00	36.00
45.600	3000.00	34.02	13898.29	456.86	48.12	528.00	.22	316.56	.01	36.00
45.600	5000.00	34.06	13915.60	457.13	48.16	528.00	.36	195.91	.01	36.00
45.700	648.00	34.00	13809.42	451.29	46.00	528.00	.05	1404.15	.00	36.00
45.700	1080.00	34.00	13810.21	451.32	46.00	528.00	.08	850.80	.00	36.00
45.700	1800.00	34.01	13812.47	451.42	46.01	528.00	.13	517.74	.00	36.00
45.700	3000.00	34.02	13818.71	451.68	46.02	528.00	.22	317.23	.01	36.00
45.700	5000.00	34.06	13835.99	452.42	46.06	528.00	.36	196.32	.01	36.00
45.900	648.00	34.00	13513.83	404.09	57.20	1056.00	.05	1410.27	.00	36.00
45.900	1080.00	34.00	13514.56	404.10	57.20	1056.00	.08	854.48	.00	36.00
45.900	1800.00	34.01	13516.60	404.14	57.21	1056.00	.13	519.95	.00	36.00
45.900	3000.00	34.02	13522.26	404.24	57.22	1056.00	.22	318.56	.01	36.00
45.900	5000.00	34.06	13537.95	404.51	57.26	1056.00	.37	197.11	.01	36.00
46.100	648.00	34.00	14411.63	446.59	51.90	1056.00	.04	1416.79	.00	36.00
46.100	1080.00	34.00	14412.45	446.60	51.90	1056.00	.07	858.39	.00	36.00
46.100	1800.00	34.01	14414.74	446.62	51.91	1056.00	.12	522.30	.00	36.00
46.100	3000.00	34.02	14421.07	446.68	51.92	1056.00	.21	319.97	.01	36.00
46.100	5000.00	34.06	14438.63	446.84	51.96	1056.00	.35	197.96	.01	36.00
46.300	648.00	34.00	14488.74	443.44	51.30	1056.00	.04	1423.35	.00	36.00
46.300	1080.00	34.00	14489.57	443.44	51.30	1056.00	.07	862.33	.00	36.00
46.300	1800.00	34.01	14491.88	443.45	51.31	1056.00	.12	524.66	.00	36.00

46.300	3000.00	34.02	14498.27	443.47	51.32	1056.00	.21	321.38	.01	36.00
46.300	5000.00	34.06	14515.99	443.52	51.36	1056.00	.34	198.81	.01	36.00
46.500	648.00	34.00	14386.85	471.23	49.90	1056.00	.05	1429.87	.00	36.00
46.500	1080.00	34.00	14387.73	471.24	49.90	1056.00	.08	866.23	.00	36.00
46.500	1800.00	34.01	14390.22	471.26	49.91	1056.00	.13	527.00	.00	36.00
46.500	3000.00	34.02	14397.09	471.32	49.92	1056.00	.21	322.79	.01	36.00
46.500	5000.00	34.06	14416.14	471.49	49.96	1056.00	.35	199.66	.01	36.00
46.700	648.00	34.00	14114.13	478.38	40.90	1056.00	.05	1436.25	.00	36.00
46.700	1080.00	34.00	14115.04	478.39	40.90	1056.00	.08	870.07	.00	36.00
46.700	1800.00	34.01	14117.60	478.42	40.91	1056.00	.13	529.30	.00	36.00
46.700	3000.00	34.02	14124.66	478.51	40.92	1056.00	.21	324.17	.01	36.00
46.700	5000.00	34.06	14144.24	478.75	40.96	1056.00	.35	200.49	.01	36.00
46.800	648.00	34.00	13873.48	442.32	46.80	528.00	.05	1439.39	.00	36.00
46.800	1080.00	34.00	13874.32	442.32	46.80	528.00	.08	871.95	.00	36.00
46.800	1800.00	34.01	13876.71	442.33	46.81	528.00	.13	530.43	.00	36.00
46.800	3000.00	34.02	13883.28	442.35	46.82	528.00	.22	324.85	.01	36.00
46.800	5000.00	34.06	13901.50	442.40	46.86	528.00	.36	200.90	.01	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
47.000	648.00	34.00	13376.25	483.54	45.90	1056.00	.05	1445.45	.00	36.00
47.000	1080.00	34.00	13377.19	483.55	45.90	1056.00	.08	875.58	.00	36.00
47.000	1800.00	34.01	13379.83	483.59	45.91	1056.00	.13	532.61	.00	36.00
47.000	3000.00	34.02	13387.10	483.68	45.92	1056.00	.22	326.16	.01	36.00
47.000	5000.00	34.07	13407.29	483.96	45.97	1056.00	.37	201.68	.01	36.00
47.200	648.00	34.00	13058.56	482.26	44.90	1056.00	.05	1451.36	.00	36.00
47.200	1080.00	34.00	13059.51	482.27	44.90	1056.00	.08	879.13	.00	36.00
47.200	1800.00	34.01	13062.18	482.30	44.91	1056.00	.14	534.74	.00	36.00
47.200	3000.00	34.02	13069.55	482.39	44.92	1056.00	.23	327.44	.01	36.00
47.200	5000.00	34.07	13089.97	482.65	44.97	1056.00	.38	202.45	.01	36.00
47.300	648.00	34.00	13709.71	496.33	42.10	528.00	.05	1454.46	.00	36.00
47.300	1080.00	34.00	13710.71	496.34	42.10	528.00	.08	880.99	.00	36.00
47.300	1800.00	34.01	13713.48	496.37	42.11	528.00	.13	535.86	.00	36.00
47.300	3000.00	34.02	13721.13	496.44	42.12	528.00	.22	328.11	.01	36.00
47.300	5000.00	34.07	13742.34	496.64	42.17	528.00	.36	202.85	.01	36.00
47.400	648.00	34.00	13810.73	445.01	46.30	528.00	.05	1457.59	.00	36.00
47.400	1080.00	34.00	13811.63	445.02	46.30	528.00	.08	882.87	.00	36.00
47.400	1800.00	34.01	13814.14	445.04	46.31	528.00	.13	536.99	.00	36.00
47.400	3000.00	34.02	13821.08	445.12	46.32	528.00	.22	328.79	.01	36.00
47.400	5000.00	34.07	13840.32	445.33	46.37	528.00	.36	203.26	.01	36.00
47.500	648.00	34.00	15678.58	452.44	53.00	528.00	.04	1461.14	.00	36.00
47.500	1080.00	34.00	15679.50	452.45	53.00	528.00	.07	885.00	.00	36.00
47.500	1800.00	34.01	15682.07	452.50	53.01	528.00	.11	538.26	.00	36.00

47.500	3000.00	34.02	15689.18	452.64	53.02	528.00	.19	329.55	.01	36.00
47.500	5000.00	34.07	15708.86	453.02	53.07	528.00	.32	203.72	.01	36.00
47.700	648.00	34.00	15841.88	475.71	51.90	1056.00	.04	1468.31	.00	36.00
47.700	1080.00	34.00	15842.85	475.72	51.90	1056.00	.07	889.30	.00	36.00
47.700	1800.00	34.01	15845.60	475.74	51.91	1056.00	.11	540.85	.00	36.00
47.700	3000.00	34.02	15853.19	475.80	51.92	1056.00	.19	331.10	.01	36.00
47.700	5000.00	34.07	15874.21	475.96	51.97	1056.00	.31	204.65	.01	36.00
47.800	648.00	34.00	14493.72	520.89	43.00	528.00	.04	1471.59	.00	36.00
47.800	1080.00	34.00	14494.80	520.93	43.00	528.00	.07	891.27	.00	36.00
47.800	1800.00	34.01	14497.81	521.07	43.01	528.00	.12	542.03	.00	36.00
47.800	3000.00	34.02	14506.16	521.45	43.02	528.00	.21	331.81	.01	36.00
47.800	5000.00	34.07	14529.28	522.50	43.07	528.00	.34	205.08	.01	36.00
48.000	648.00	34.00	14113.93	429.10	49.10	1056.00	.05	1477.98	.00	36.00
48.000	1080.00	34.00	14114.83	429.11	49.10	1056.00	.08	895.10	.00	36.00
48.000	1800.00	34.01	14117.34	429.13	49.11	1056.00	.13	544.33	.00	36.00
48.000	3000.00	34.03	14124.25	429.19	49.13	1056.00	.21	333.19	.01	36.00
48.000	5000.00	34.07	14143.44	429.35	49.17	1056.00	.35	205.91	.01	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
48.200	648.00	34.00	14109.00	429.60	51.90	1056.00	.05	1484.37	.00	36.00
48.200	1080.00	34.00	14109.91	429.61	51.90	1056.00	.08	898.94	.00	36.00
48.200	1800.00	34.01	14112.45	429.65	51.91	1056.00	.13	546.63	.00	36.00
48.200	3000.00	34.03	14119.47	429.76	51.93	1056.00	.21	334.57	.01	36.00
48.200	5000.00	34.07	14138.91	430.05	51.97	1056.00	.35	206.74	.01	36.00
48.300	648.00	34.00	14168.43	455.16	45.00	528.00	.05	1487.57	.00	36.00
48.300	1080.00	34.00	14169.40	455.17	45.00	528.00	.08	900.86	.00	36.00
48.300	1800.00	34.01	14172.11	455.20	45.01	528.00	.13	547.78	.00	36.00
48.300	3000.00	34.03	14179.58	455.28	45.03	528.00	.21	335.27	.01	36.00
48.300	5000.00	34.07	14200.26	455.51	45.07	528.00	.35	207.15	.01	36.00
48.500	648.00	34.00	13659.06	452.39	43.70	1056.00	.05	1493.76	.00	36.00
48.500	1080.00	34.00	13660.04	452.40	43.70	1056.00	.08	904.57	.00	36.00
48.500	1800.00	34.01	13662.75	452.43	43.71	1056.00	.13	550.01	.00	36.00
48.500	3000.00	34.03	13670.27	452.52	43.73	1056.00	.22	336.60	.01	36.00
48.500	5000.00	34.07	13691.07	452.75	43.77	1056.00	.37	207.96	.01	36.00
48.700	648.00	34.00	13243.58	458.54	43.00	1056.00	.05	1499.75	.00	36.00
48.700	1080.00	34.00	13244.58	458.55	43.00	1056.00	.08	908.17	.00	36.00
48.700	1800.00	34.01	13247.36	458.57	43.01	1056.00	.14	552.17	.00	36.00
48.700	3000.00	34.03	13255.06	458.64	43.03	1056.00	.23	337.90	.01	36.00
48.700	5000.00	34.07	13276.39	458.83	43.07	1056.00	.38	208.73	.01	36.00
48.900	648.00	34.00	13764.85	488.80	41.10	1056.00	.05	1505.98	.00	36.00
48.900	1080.00	34.00	13765.93	488.81	41.10	1056.00	.08	911.91	.00	36.00
48.900	1800.00	34.01	13768.94	488.84	41.11	1056.00	.13	554.41	.00	36.00

48.900	3000.00	34.03	13777.26	488.90	41.13	1056.00	.22	339.25	.01	36.00
48.900	5000.00	34.07	13800.30	489.09	41.17	1056.00	.36	209.54	.01	36.00
49.100	648.00	34.00	14071.83	508.52	34.10	1056.00	.05	1512.35	.00	36.00
49.100	1080.00	34.00	14072.97	508.53	34.10	1056.00	.08	915.73	.00	36.00
49.100	1800.00	34.01	14076.15	508.57	34.11	1056.00	.13	556.71	.00	36.00
49.100	3000.00	34.03	14084.96	508.67	34.13	1056.00	.21	340.62	.01	36.00
49.100	5000.00	34.08	14109.33	508.96	34.18	1056.00	.35	210.37	.01	36.00
49.300	648.00	34.00	13622.65	523.25	33.00	1056.00	.05	1518.52	.00	36.00
49.300	1080.00	34.00	13623.83	523.26	33.00	1056.00	.08	919.43	.00	36.00
49.300	1800.00	34.01	13627.15	523.28	33.01	1056.00	.13	558.93	.00	36.00
49.300	3000.00	34.03	13636.34	523.36	33.03	1056.00	.22	341.96	.01	36.00
49.300	5000.00	34.08	13661.75	523.56	33.08	1056.00	.37	211.17	.01	36.00
49.500	648.00	34.00	13848.01	509.56	33.80	1056.00	.05	1524.79	.00	36.00
49.500	1080.00	34.00	13849.18	509.57	33.80	1056.00	.08	923.19	.00	36.00
49.500	1800.00	34.01	13852.45	509.60	33.81	1056.00	.13	561.18	.00	36.00
49.500	3000.00	34.03	13861.51	509.67	33.83	1056.00	.22	343.31	.01	36.00
49.500	5000.00	34.08	13886.59	509.86	33.88	1056.00	.36	211.99	.01	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
49.700	648.00	34.00	13722.11	497.33	38.00	1056.00	.05	1531.00	.00	36.00
49.700	1080.00	34.00	13723.26	497.34	38.00	1056.00	.08	926.92	.00	36.00
49.700	1800.00	34.01	13726.51	497.37	38.01	1056.00	.13	563.42	.00	36.00
49.700	3000.00	34.03	13735.49	497.45	38.03	1056.00	.22	344.66	.01	36.00
49.700	5000.00	34.08	13760.33	497.66	38.08	1056.00	.36	212.80	.01	36.00
49.800	648.00	34.00	13403.20	479.98	39.10	528.00	.05	1534.03	.00	36.00
49.800	1080.00	34.00	13404.32	480.00	39.10	528.00	.08	928.74	.00	36.00
49.800	1800.00	34.01	13407.47	480.04	39.11	528.00	.13	564.51	.00	36.00
49.800	3000.00	34.03	13416.18	480.16	39.13	528.00	.22	345.31	.01	36.00
49.800	5000.00	34.08	13440.30	480.48	39.18	528.00	.37	213.19	.01	36.00
49.900	648.00	34.00	13790.56	437.48	45.00	528.00	.05	1537.15	.00	36.00
49.900	1080.00	34.00	13791.60	437.48	45.00	528.00	.08	930.61	.00	36.00
49.900	1800.00	34.01	13794.49	437.49	45.01	528.00	.13	565.64	.00	36.00
49.900	3000.00	34.03	13802.47	437.51	45.03	528.00	.22	345.99	.01	36.00
49.900	5000.00	34.08	13824.56	437.58	45.08	528.00	.36	213.60	.01	36.00
50.100	648.00	34.00	13810.88	450.85	45.40	1056.00	.05	1543.41	.00	36.00
50.100	1080.00	34.00	13811.96	450.85	45.40	1056.00	.08	934.36	.00	36.00
50.100	1800.00	34.01	13814.98	450.87	45.41	1056.00	.13	567.89	.00	36.00
50.100	3000.00	34.03	13823.31	450.91	45.43	1056.00	.22	347.34	.01	36.00
50.100	5000.00	34.08	13846.38	451.02	45.48	1056.00	.36	214.41	.01	36.00
50.200	648.00	34.00	13314.97	450.49	40.00	528.00	.05	1546.42	.00	36.00
50.200	1080.00	34.00	13316.05	450.53	40.00	528.00	.08	936.17	.00	36.00
50.200	1800.00	34.01	13319.08	450.64	40.01	528.00	.14	568.97	.00	36.00

50.200	3000.00	34.03	13327.45	450.93	40.03	528.00	.23	347.99	.01	36.00
50.200	5000.00	34.08	13350.64	451.74	40.08	528.00	.37	214.80	.01	36.00
50.300	648.00	34.00	12492.86	415.22	41.10	528.00	.05	1549.25	.00	36.00
50.300	1080.00	34.00	12493.86	415.23	41.10	528.00	.09	937.87	.00	36.00
50.300	1800.00	34.01	12496.66	415.25	41.11	528.00	.14	569.99	.00	36.00
50.300	3000.00	34.03	12504.42	415.31	41.13	528.00	.24	348.60	.01	36.00
50.300	5000.00	34.08	12525.86	415.48	41.18	528.00	.40	215.17	.01	36.00
50.500	648.00	34.00	14575.27	418.42	55.30	1056.00	.04	1555.85	.00	36.00
50.500	1080.00	34.00	14576.29	418.43	55.30	1056.00	.07	941.83	.00	36.00
50.500	1800.00	34.01	14579.14	418.45	55.31	1056.00	.12	572.37	.00	36.00
50.500	3000.00	34.03	14587.04	418.53	55.33	1056.00	.21	350.03	.01	36.00
50.500	5000.00	34.08	14608.89	418.73	55.38	1056.00	.34	216.02	.01	36.00
50.700	648.00	34.00	13442.31	516.40	52.10	1056.00	.05	1561.93	.00	36.00
50.700	1080.00	34.00	13443.60	516.42	52.10	1056.00	.08	945.48	.00	36.00
50.700	1800.00	34.01	13447.18	516.47	52.11	1056.00	.13	574.56	.00	36.00
50.700	3000.00	34.03	13457.10	516.62	52.13	1056.00	.22	351.34	.01	36.00
50.700	5000.00	34.08	13484.55	517.02	52.18	1056.00	.37	216.81	.01	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
50.900	648.00	34.00	13184.25	492.68	37.90	1056.00	.05	1567.90	.00	36.00
50.900	1080.00	34.00	13185.48	492.69	37.90	1056.00	.08	949.06	.00	36.00
50.900	1800.00	34.01	13188.93	492.73	37.91	1056.00	.14	576.71	.00	36.00
50.900	3000.00	34.03	13198.46	492.81	37.93	1056.00	.23	352.63	.01	36.00
50.900	5000.00	34.08	13224.86	493.05	37.98	1056.00	.38	217.59	.01	36.00
51.100	648.00	34.00	12750.69	482.92	36.10	1056.00	.05	1573.67	.00	36.00
51.100	1080.00	34.00	12751.92	482.93	36.10	1056.00	.08	952.52	.00	36.00
51.100	1800.00	34.01	12755.34	482.94	36.11	1056.00	.14	578.79	.00	36.00
51.100	3000.00	34.03	12764.84	482.97	36.13	1056.00	.24	353.88	.01	36.00
51.100	5000.00	34.09	12791.12	483.07	36.19	1056.00	.39	218.34	.01	36.00
51.300	648.00	34.00	12249.73	478.33	39.00	1056.00	.05	1579.22	.00	36.00
51.300	1080.00	34.00	12250.96	478.33	39.00	1056.00	.09	955.85	.00	36.00
51.300	1800.00	34.01	12254.42	478.36	39.01	1056.00	.15	580.78	.01	36.00
51.300	3000.00	34.03	12263.95	478.44	39.03	1056.00	.24	355.08	.01	36.00
51.300	5000.00	34.09	12290.32	478.64	39.09	1056.00	.41	219.06	.01	36.00
51.400	648.00	34.00	14034.47	512.75	44.90	528.00	.05	1582.39	.00	36.00
51.400	1080.00	34.00	14035.81	512.76	44.90	528.00	.08	957.76	.00	36.00
51.400	1800.00	34.01	14039.53	512.78	44.91	528.00	.13	581.93	.00	36.00
51.400	3000.00	34.03	14049.82	512.83	44.93	528.00	.21	355.77	.01	36.00
51.400	5000.00	34.09	14078.30	512.97	44.99	528.00	.36	219.48	.01	36.00
51.600	648.00	34.00	12048.44	448.26	38.10	1056.00	.05	1587.85	.00	36.00
51.600	1080.00	34.00	12049.63	448.27	38.10	1056.00	.09	961.03	.00	36.00
51.600	1800.00	34.01	12052.95	448.30	38.11	1056.00	.15	583.89	.01	36.00

51.600	3000.00	34.03	12062.13	448.38	38.13	1056.00	.25	356.95	.01	36.00
51.600	5000.00	34.09	12087.55	448.60	38.19	1056.00	.41	220.18	.01	36.00
51.800	648.00	34.00	14278.77	423.67	54.90	1056.00	.05	1594.31	.00	36.00
51.800	1080.00	34.00	14279.91	423.68	54.90	1056.00	.08	964.91	.00	36.00
51.800	1800.00	34.01	14283.06	423.70	54.91	1056.00	.13	586.22	.00	36.00
51.800	3000.00	34.03	14291.81	423.77	54.93	1056.00	.21	358.34	.01	36.00
51.800	5000.00	34.09	14316.00	423.95	54.99	1056.00	.35	221.02	.01	36.00
51.900	648.00	34.00	14082.80	402.74	56.10	528.00	.05	1597.50	.00	36.00
51.900	1080.00	34.00	14083.89	402.75	56.10	528.00	.08	966.82	.00	36.00
51.900	1800.00	34.01	14086.94	402.77	56.11	528.00	.13	587.37	.00	36.00
51.900	3000.00	34.03	14095.36	402.82	56.13	528.00	.21	359.03	.01	36.00
51.900	5000.00	34.09	14118.66	402.97	56.19	528.00	.35	221.44	.01	36.00
52.000	648.00	34.00	12388.82	413.68	44.20	528.00	.05	1600.30	.00	36.00
52.000	1080.00	34.00	12389.95	413.69	44.20	528.00	.09	968.50	.00	36.00
52.000	1800.00	34.01	12393.08	413.71	44.21	528.00	.15	588.38	.00	36.00
52.000	3000.00	34.03	12401.75	413.78	44.23	528.00	.24	359.64	.01	36.00
52.000	5000.00	34.09	12425.72	413.97	44.29	528.00	.40	221.80	.01	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
52.200	648.00	34.00	12996.19	426.91	43.90	1056.00	.05	1606.18	.00	36.00
52.200	1080.00	34.00	12997.35	426.92	43.90	1056.00	.08	972.03	.00	36.00
52.200	1800.00	34.01	13000.61	426.95	43.91	1056.00	.14	590.50	.00	36.00
52.200	3000.00	34.03	13009.61	427.04	43.93	1056.00	.23	360.91	.01	36.00
52.200	5000.00	34.09	13034.52	427.26	43.99	1056.00	.38	222.57	.01	36.00
52.400	648.00	34.00	13318.76	426.52	46.80	1056.00	.05	1612.21	.00	36.00
52.400	1080.00	34.00	13319.94	426.52	46.80	1056.00	.08	975.65	.00	36.00
52.400	1800.00	34.01	13323.24	426.53	46.81	1056.00	.14	592.67	.00	36.00
52.400	3000.00	34.03	13332.38	426.56	46.83	1056.00	.23	362.21	.01	36.00
52.400	5000.00	34.09	13357.66	426.65	46.89	1056.00	.37	223.35	.01	36.00
52.500	648.00	34.00	12770.71	430.10	41.90	528.00	.05	1615.10	.00	36.00
52.500	1080.00	34.00	12771.92	430.11	41.90	528.00	.08	977.38	.00	36.00
52.500	1800.00	34.01	12775.27	430.15	41.91	528.00	.14	593.71	.00	36.00
52.500	3000.00	34.03	12784.53	430.24	41.93	528.00	.23	362.84	.01	36.00
52.500	5000.00	34.09	12810.17	430.52	41.99	528.00	.39	223.73	.01	36.00
52.700	648.00	34.00	12412.70	431.64	41.80	1056.00	.05	1620.72	.00	36.00
52.700	1080.00	34.00	12413.92	431.66	41.80	1056.00	.09	980.76	.00	36.00
52.700	1800.00	34.01	12417.31	431.70	41.81	1056.00	.14	595.73	.00	36.00
52.700	3000.00	34.03	12426.71	431.81	41.83	1056.00	.24	364.06	.01	36.00
52.700	5000.00	34.09	12452.68	432.11	41.89	1056.00	.40	224.46	.01	36.00
52.900	648.00	34.00	13379.42	440.36	41.90	1056.00	.05	1626.78	.00	36.00
52.900	1080.00	34.00	13380.68	440.37	41.90	1056.00	.08	984.39	.00	36.00
52.900	1800.00	34.01	13384.18	440.40	41.91	1056.00	.13	597.91	.00	36.00

52.900	3000.00	34.03	13393.88	440.48	41.93	1056.00	.22	365.36	.01	36.00
52.900	5000.00	34.10	13420.70	440.70	42.00	1056.00	.37	225.24	.01	36.00
53.100	648.00	34.00	12695.82	378.75	45.20	1056.00	.05	1632.53	.00	36.00
53.100	1080.00	34.00	12696.91	378.75	45.20	1056.00	.09	987.84	.00	36.00
53.100	1800.00	34.01	12699.97	378.77	45.21	1056.00	.14	599.98	.00	36.00
53.100	3000.00	34.03	12708.43	378.82	45.23	1056.00	.24	366.61	.01	36.00
53.100	5000.00	34.10	12731.83	378.96	45.30	1056.00	.39	225.99	.01	36.00
53.300	648.00	34.00	13205.65	391.23	62.20	1056.00	.05	1638.50	.00	36.00
53.300	1080.00	34.00	13206.77	391.24	62.20	1056.00	.08	991.43	.00	36.00
53.300	1800.00	34.01	13209.96	391.27	62.21	1056.00	.14	602.14	.00	36.00
53.300	3000.00	34.04	13218.76	391.36	62.24	1056.00	.23	367.90	.01	36.00
53.300	5000.00	34.10	13243.10	391.60	62.30	1056.00	.38	226.77	.01	36.00
53.500	648.00	34.00	13425.19	462.22	45.00	1056.00	.05	1644.58	.00	36.00
53.500	1080.00	34.00	13426.54	462.24	45.00	1056.00	.08	995.07	.00	36.00
53.500	1800.00	34.01	13430.34	462.29	45.01	1056.00	.13	604.32	.00	36.00
53.500	3000.00	34.04	13440.86	462.42	45.04	1056.00	.22	369.21	.01	36.00
53.500	5000.00	34.10	13469.94	462.80	45.10	1056.00	.37	227.56	.01	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
53.700	648.00	34.00	14377.18	394.71	72.00	1056.00	.05	1651.09	.00	36.00
53.700	1080.00	34.00	14378.36	394.72	72.00	1056.00	.08	998.98	.00	36.00
53.700	1800.00	34.01	14381.64	394.75	72.01	1056.00	.13	606.67	.00	36.00
53.700	3000.00	34.04	14390.70	394.82	72.04	1056.00	.21	370.62	.01	36.00
53.700	5000.00	34.10	14415.79	395.03	72.10	1056.00	.35	228.40	.01	36.00
53.800	648.00	34.00	13650.13	475.88	45.00	528.00	.05	1654.18	.00	36.00
53.800	1080.00	34.00	13651.55	475.89	45.00	528.00	.08	1000.83	.00	36.00
53.800	1800.00	34.01	13655.53	475.93	45.01	528.00	.13	607.78	.00	36.00
53.800	3000.00	34.04	13666.53	476.03	45.04	528.00	.22	371.29	.01	36.00
53.800	5000.00	34.10	13696.95	476.31	45.10	528.00	.37	228.81	.01	36.00
54.000	648.00	34.00	13254.72	418.46	41.10	1056.00	.05	1660.18	.00	36.00
54.000	1080.00	34.00	13255.98	418.47	41.10	1056.00	.08	1004.43	.00	36.00
54.000	1800.00	34.01	13259.50	418.48	41.11	1056.00	.14	609.94	.00	36.00
54.000	3000.00	34.04	13269.24	418.52	41.14	1056.00	.23	372.59	.01	36.00
54.000	5000.00	34.10	13296.17	418.63	41.20	1056.00	.38	229.59	.01	36.00
54.200	648.00	34.00	12986.08	422.15	40.00	1056.00	.05	1666.06	.00	36.00
54.200	1080.00	34.00	12987.37	422.16	40.00	1056.00	.08	1007.96	.00	36.00
54.200	1800.00	34.01	12990.96	422.20	40.01	1056.00	.14	612.06	.00	36.00
54.200	3000.00	34.04	13000.88	422.29	40.04	1056.00	.23	373.86	.01	36.00
54.200	5000.00	34.10	13028.31	422.54	40.10	1056.00	.38	230.35	.01	36.00
54.400	648.00	34.00	12961.08	435.08	42.70	1056.00	.05	1671.92	.00	36.00
54.400	1080.00	34.00	12962.41	435.09	42.70	1056.00	.08	1011.48	.00	36.00
54.400	1800.00	34.01	12966.14	435.12	42.71	1056.00	.14	614.17	.00	36.00

54.400	3000.00	34.04	12976.46	435.21	42.74	1056.00	.23	375.13	.01	36.00
54.400	5000.00	34.10	13004.99	435.44	42.80	1056.00	.38	231.11	.01	36.00
54.600	648.00	34.00	13126.76	443.10	41.00	1056.00	.05	1677.87	.00	36.00
54.600	1080.00	34.00	13128.14	443.11	41.00	1056.00	.08	1015.05	.00	36.00
54.600	1800.00	34.01	13131.98	443.13	41.01	1056.00	.14	616.31	.00	36.00
54.600	3000.00	34.04	13142.59	443.20	41.04	1056.00	.23	376.41	.01	36.00
54.600	5000.00	34.10	13171.93	443.40	41.10	1056.00	.38	231.89	.01	36.00
54.700	648.00	34.00	14162.63	524.39	45.70	528.00	.05	1681.07	.00	36.00
54.700	1080.00	34.00	14164.26	524.41	45.70	528.00	.08	1016.97	.00	36.00
54.700	1800.00	34.01	14168.83	524.46	45.71	528.00	.13	617.47	.00	36.00
54.700	3000.00	34.04	14181.46	524.59	45.74	528.00	.21	377.11	.01	36.00
54.700	5000.00	34.10	14216.40	524.98	45.80	528.00	.35	232.30	.01	36.00
54.900	648.00	34.00	13581.92	454.25	59.50	1056.00	.05	1687.22	.00	36.00
54.900	1080.00	34.00	13583.35	454.26	59.50	1056.00	.08	1020.66	.00	36.00
54.900	1800.00	34.01	13587.36	454.30	59.51	1056.00	.13	619.68	.00	36.00
54.900	3000.00	34.04	13598.44	454.40	59.54	1056.00	.22	378.43	.01	36.00
54.900	5000.00	34.11	13629.09	454.67	59.61	1056.00	.37	233.10	.01	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
55.100	648.00	34.00	14040.48	466.88	59.10	1056.00	.05	1693.58	.00	36.00
55.100	1080.00	34.00	14041.97	466.89	59.10	1056.00	.08	1024.47	.00	36.00
55.100	1800.00	34.01	14046.13	466.92	59.11	1056.00	.13	621.97	.00	36.00
55.100	3000.00	34.04	14057.60	467.02	59.14	1056.00	.21	379.81	.01	36.00
55.100	5000.00	34.11	14089.33	467.29	59.21	1056.00	.35	233.93	.01	36.00
55.300	648.00	34.00	12762.79	419.84	42.90	1056.00	.05	1699.35	.00	36.00
55.300	1080.00	34.01	12764.14	419.86	42.91	1056.00	.08	1027.94	.00	36.00
55.300	1800.00	34.01	12767.91	419.90	42.91	1056.00	.14	624.05	.00	36.00
55.300	3000.00	34.04	12778.33	420.03	42.94	1056.00	.23	381.06	.01	36.00
55.300	5000.00	34.11	12807.16	420.40	43.01	1056.00	.39	234.68	.01	36.00
55.500	648.00	34.00	11797.18	444.53	36.00	1056.00	.05	1704.69	.00	36.00
55.500	1080.00	34.01	11798.63	444.54	36.01	1056.00	.09	1031.14	.00	36.00
55.500	1800.00	34.01	11802.64	444.57	36.01	1056.00	.15	625.97	.01	36.00
55.500	3000.00	34.04	11813.75	444.65	36.04	1056.00	.25	382.21	.01	36.00
55.500	5000.00	34.11	11844.47	444.87	36.11	1056.00	.42	235.38	.01	36.00
55.600	648.00	34.00	11643.94	428.32	37.80	528.00	.06	1707.33	.00	36.00
55.600	1080.00	34.01	11645.33	428.33	37.81	528.00	.09	1032.73	.00	36.00
55.600	1800.00	34.01	11649.22	428.35	37.81	528.00	.15	626.92	.01	36.00
55.600	3000.00	34.04	11659.98	428.42	37.84	528.00	.26	382.78	.01	36.00
55.600	5000.00	34.11	11689.74	428.60	37.91	528.00	.43	235.72	.01	36.00
55.800	648.00	34.00	13125.90	406.67	48.90	1056.00	.05	1713.27	.00	36.00
55.800	1080.00	34.01	13127.25	406.68	48.91	1056.00	.08	1036.29	.00	36.00
55.800	1800.00	34.01	13130.99	406.70	48.91	1056.00	.14	629.06	.00	36.00

55.800	3000.00	34.04	13141.35	406.75	48.94	1056.00	.23	384.07	.01	36.00
55.800	5000.00	34.11	13169.98	406.89	49.01	1056.00	.38	236.49	.01	36.00
55.900	648.00	34.00	13286.25	441.05	45.00	528.00	.05	1716.28	.00	36.00
55.900	1080.00	34.01	13287.72	441.06	45.01	528.00	.08	1038.10	.00	36.00
55.900	1800.00	34.01	13291.81	441.09	45.01	528.00	.14	630.15	.00	36.00
55.900	3000.00	34.04	13303.14	441.18	45.04	528.00	.23	384.72	.01	36.00
55.900	5000.00	34.11	13334.47	441.43	45.11	528.00	.37	236.88	.01	36.00
56.100	648.00	34.00	14503.28	525.60	37.90	1056.00	.04	1722.84	.00	36.00
56.100	1080.00	34.01	14505.04	525.61	37.91	1056.00	.07	1042.04	.00	36.00
56.100	1800.00	34.01	14509.97	525.65	37.91	1056.00	.12	632.51	.00	36.00
56.100	3000.00	34.04	14523.58	525.76	37.94	1056.00	.21	386.14	.01	36.00
56.100	5000.00	34.11	14561.21	526.07	38.01	1056.00	.34	237.74	.01	36.00
56.300	648.00	34.00	13600.59	481.61	36.00	1056.00	.05	1729.00	.00	36.00
56.300	1080.00	34.01	13602.23	481.62	36.01	1056.00	.08	1045.73	.00	36.00
56.300	1800.00	34.01	13606.78	481.66	36.01	1056.00	.13	634.73	.00	36.00
56.300	3000.00	34.04	13619.41	481.76	36.04	1056.00	.22	387.47	.01	36.00
56.300	5000.00	34.11	13654.29	482.06	36.11	1056.00	.37	238.54	.01	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
56.500	648.00	34.00	13453.55	471.18	36.00	1056.00	.05	1735.09	.00	36.00
56.500	1080.00	34.01	13455.17	471.19	36.01	1056.00	.08	1049.38	.00	36.00
56.500	1800.00	34.01	13459.66	471.22	36.01	1056.00	.13	636.92	.00	36.00
56.500	3000.00	34.04	13472.09	471.32	36.04	1056.00	.22	388.79	.01	36.00
56.500	5000.00	34.11	13506.46	471.58	36.11	1056.00	.37	239.33	.01	36.00
56.800	648.00	34.00	11976.23	477.26	35.00	1584.00	.05	1743.22	.00	36.00
56.800	1080.00	34.01	11977.89	477.27	35.01	1584.00	.09	1054.26	.00	36.00
56.800	1800.00	34.02	11982.50	477.30	35.02	1584.00	.15	639.85	.01	36.00
56.800	3000.00	34.04	11995.26	477.37	35.04	1584.00	.25	390.55	.01	36.00
56.800	5000.00	34.12	12030.53	477.58	35.12	1584.00	.42	240.39	.01	36.00
56.900	648.00	34.00	11402.26	481.51	36.00	528.00	.06	1745.80	.00	36.00
56.900	1080.00	34.01	11403.94	481.51	36.01	528.00	.09	1055.81	.00	36.00
56.900	1800.00	34.02	11408.60	481.51	36.02	528.00	.16	640.78	.01	36.00
56.900	3000.00	34.04	11421.54	481.52	36.04	528.00	.26	391.11	.01	36.00
56.900	5000.00	34.12	11457.28	481.54	36.12	528.00	.44	240.73	.02	36.00
57.100	648.00	34.00	11723.22	519.52	35.00	1056.00	.06	1751.11	.00	36.00
57.100	1080.00	34.01	11725.06	519.53	35.01	1056.00	.09	1059.00	.00	36.00
57.100	1800.00	34.02	11730.17	519.57	35.02	1056.00	.15	642.69	.01	36.00
57.100	3000.00	34.04	11744.33	519.67	35.04	1056.00	.26	392.25	.01	36.00
57.100	5000.00	34.12	11783.45	519.95	35.12	1056.00	.42	241.42	.02	36.00
57.300	648.00	34.00	13556.28	515.19	38.20	1056.00	.05	1757.25	.00	36.00
57.300	1080.00	34.01	13558.14	515.20	38.21	1056.00	.08	1062.68	.00	36.00
57.300	1800.00	34.02	13563.30	515.22	38.22	1056.00	.13	644.90	.00	36.00

	57.300	3000.00	34.04	13577.58	515.27	38.24	1056.00	.22	393.58	.01	36.00
	57.300	5000.00	34.12	13617.07	515.40	38.32	1056.00	.37	242.22	.01	36.00
	57.600	648.00	34.00	12020.51	522.63	31.80	1584.00	.05	1765.41	.00	36.00
	57.600	1080.00	34.01	12022.43	522.63	31.81	1584.00	.09	1067.58	.00	36.00
	57.600	1800.00	34.02	12027.77	522.65	31.82	1584.00	.15	647.84	.01	36.00
	57.600	3000.00	34.04	12042.57	522.69	31.84	1584.00	.25	395.35	.01	36.00
	57.600	5000.00	34.12	12083.46	522.80	31.92	1584.00	.41	243.28	.02	36.00
	57.800	648.00	34.00	12531.07	584.32	32.30	1056.00	.05	1771.08	.00	36.00
	57.800	1080.00	34.01	12533.23	584.33	32.31	1056.00	.09	1070.98	.00	36.00
	57.800	1800.00	34.02	12539.24	584.35	32.32	1056.00	.14	649.89	.01	36.00
	57.800	3000.00	34.04	12555.90	584.41	32.34	1056.00	.24	396.58	.01	36.00
	57.800	5000.00	34.12	12601.93	584.59	32.42	1056.00	.40	244.02	.02	36.00
*	58.000	648.00	34.00	9835.77	554.97	28.70	1056.00	.07	1775.53	.00	36.00
*	58.000	1080.00	34.01	9837.87	555.00	28.71	1056.00	.11	1073.65	.00	36.00
*	58.000	1800.00	34.02	9843.68	555.09	28.72	1056.00	.18	651.49	.01	36.00
*	58.000	3000.00	34.05	9859.79	555.35	28.75	1056.00	.30	397.54	.01	36.00
*	58.000	5000.00	34.13	9904.31	556.05	28.83	1056.00	.50	244.60	.02	36.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
*	58.300	648.00	34.00	13307.29	607.61	36.10	1584.00	.05	1784.57	.00	36.00
*	58.300	1080.00	34.01	13309.64	607.62	36.11	1584.00	.08	1079.08	.00	36.00
*	58.300	1800.00	34.02	13316.18	607.66	36.12	1584.00	.14	654.74	.01	36.00
*	58.300	3000.00	34.05	13334.30	607.76	36.15	1584.00	.22	399.50	.01	36.00
*	58.300	5000.00	34.13	13384.33	608.03	36.23	1584.00	.37	245.78	.01	36.00
	58.400	648.00	34.00	12295.57	551.12	30.10	528.00	.05	1787.35	.00	36.00
	58.400	1080.00	34.01	12297.75	551.13	30.11	528.00	.09	1080.75	.00	36.00
	58.400	1800.00	34.02	12303.80	551.17	30.12	528.00	.15	655.75	.01	36.00
	58.400	3000.00	34.05	12320.56	551.26	30.15	528.00	.24	400.10	.01	36.00
	58.400	5000.00	34.13	12366.83	551.53	30.23	528.00	.40	246.14	.02	36.00
	58.500	648.00	34.00	13241.03	504.51	34.00	528.00	.05	1790.35	.00	36.00
	58.500	1080.00	34.01	13243.02	504.52	34.01	528.00	.08	1082.55	.00	36.00
	58.500	1800.00	34.02	13248.56	504.56	34.02	528.00	.14	656.83	.00	36.00
	58.500	3000.00	34.05	13263.91	504.65	34.05	528.00	.23	400.75	.01	36.00
	58.500	5000.00	34.13	13306.28	504.90	34.13	528.00	.38	246.53	.01	36.00
	58.700	648.00	34.00	13792.68	485.63	42.90	1056.00	.05	1796.59	.00	36.00
	58.700	1080.00	34.01	13794.62	485.65	42.91	1056.00	.08	1086.29	.00	36.00
	58.700	1800.00	34.02	13800.03	485.70	42.92	1056.00	.13	659.08	.00	36.00
	58.700	3000.00	34.05	13814.99	485.84	42.95	1056.00	.22	402.10	.01	36.00
	58.700	5000.00	34.13	13856.31	486.24	43.03	1056.00	.36	247.34	.01	36.00
*	59.000	648.00	34.00	18318.25	442.80	72.90	1584.00	.04	1809.03	.00	36.00
*	59.000	1080.00	34.01	18320.04	442.85	72.91	1584.00	.06	1093.76	.00	36.00
*	59.000	1800.00	34.02	18325.03	442.99	72.92	1584.00	.10	663.55	.00	36.00

*	59.000	3000.00	34.05	18338.83	443.38	72.95	1584.00	.16	404.79	.00	36.00
*	59.000	5000.00	34.13	18376.97	444.45	73.03	1584.00	.27	248.96	.01	36.00
*	59.200	648.00	34.00	12510.89	470.57	41.70	1056.00	.05	1814.69	.00	36.00
*	59.200	1080.00	34.01	12512.80	470.58	41.71	1056.00	.09	1097.15	.00	36.00
*	59.200	1800.00	34.02	12518.13	470.63	41.72	1056.00	.14	665.59	.00	36.00
*	59.200	3000.00	34.05	12532.89	470.78	41.75	1056.00	.24	406.01	.01	36.00
*	59.200	5000.00	34.13	12573.61	471.16	41.83	1056.00	.40	249.70	.01	36.00
	59.400	648.00	34.00	12758.06	509.79	39.90	1056.00	.05	1820.47	.00	36.00
	59.400	1080.00	34.01	12760.13	509.80	39.91	1056.00	.08	1100.62	.00	36.00
	59.400	1800.00	34.02	12765.89	509.84	39.92	1056.00	.14	667.68	.00	36.00
	59.400	3000.00	34.05	12781.86	509.95	39.95	1056.00	.23	407.26	.01	36.00
	59.400	5000.00	34.14	12825.92	510.25	40.04	1056.00	.39	250.45	.01	36.00
	59.500	648.00	34.00	12798.59	530.39	36.00	528.00	.05	1823.37	.00	36.00
	59.500	1080.00	34.01	12800.77	530.40	36.01	528.00	.08	1102.36	.00	36.00
	59.500	1800.00	34.02	12806.82	530.44	36.02	528.00	.14	668.72	.01	36.00
	59.500	3000.00	34.05	12823.58	530.54	36.05	528.00	.23	407.89	.01	36.00
	59.500	5000.00	34.14	12869.83	530.82	36.14	528.00	.39	250.83	.01	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
59.700	648.00	34.00	12650.71	587.01	31.20	1056.00	.05	1829.09	.00	36.00
59.700	1080.00	34.01	12653.14	587.02	31.21	1056.00	.09	1105.79	.00	36.00
59.700	1800.00	34.02	12659.91	587.06	31.22	1056.00	.14	670.78	.01	36.00
59.700	3000.00	34.05	12678.64	587.15	31.25	1056.00	.24	409.13	.01	36.00
59.700	5000.00	34.14	12730.34	587.40	31.34	1056.00	.39	251.57	.01	36.00
59.900	648.00	34.00	11996.76	580.33	29.00	1056.00	.05	1834.52	.00	36.00
59.900	1080.00	34.01	11999.19	580.34	29.01	1056.00	.09	1109.05	.00	36.00
59.900	1800.00	34.02	12005.96	580.37	29.02	1056.00	.15	672.74	.01	36.00
59.900	3000.00	34.05	12024.69	580.46	29.05	1056.00	.25	410.30	.01	36.00
59.900	5000.00	34.14	12076.41	580.72	29.14	1056.00	.41	252.28	.02	36.00
60.000	648.00	34.00	11910.68	607.24	25.00	528.00	.05	1837.22	.00	36.00
60.000	1080.00	34.01	11913.24	607.27	25.01	528.00	.09	1110.67	.00	36.00
60.000	1800.00	34.02	11920.37	607.35	25.02	528.00	.15	673.71	.01	36.00
60.000	3000.00	34.05	11940.12	607.58	25.05	528.00	.25	410.89	.01	36.00
60.000	5000.00	34.14	11994.63	608.20	25.14	528.00	.42	252.63	.02	36.00
60.200	648.00	34.00	11861.39	647.46	25.90	1056.00	.05	1842.59	.00	36.00
60.200	1080.00	34.01	11864.17	647.49	25.91	1056.00	.09	1113.89	.00	36.00
60.200	1800.00	34.02	11871.88	647.58	25.92	1056.00	.15	675.64	.01	36.00
60.200	3000.00	34.05	11893.25	647.83	25.95	1056.00	.25	412.05	.01	36.00
60.200	5000.00	34.14	11952.21	648.51	26.04	1056.00	.42	253.34	.02	36.00
60.400	648.00	34.00	12401.52	620.31	25.30	1056.00	.05	1848.20	.00	36.00
60.400	1080.00	34.01	12404.21	620.35	25.31	1056.00	.09	1117.26	.00	36.00
60.400	1800.00	34.02	12411.73	620.48	25.32	1056.00	.15	677.67	.01	36.00

60.400	3000.00	34.05	12432.53	620.83	25.35	1056.00	.24	413.27	.01	36.00
60.400	5000.00	34.15	12489.97	621.81	25.45	1056.00	.40	254.07	.02	36.00
60.800	648.00	34.00	12252.11	652.41	25.00	2112.00	.05	1859.30	.00	36.00
60.800	1080.00	34.01	12255.03	652.48	25.01	2112.00	.09	1123.92	.00	36.00
60.800	1800.00	34.02	12263.17	652.67	25.02	2112.00	.15	681.66	.01	36.00
60.800	3000.00	34.05	12285.70	653.18	25.05	2112.00	.24	415.67	.01	36.00
60.800	5000.00	34.15	12347.91	654.61	25.15	2112.00	.40	255.52	.02	36.00
60.900	648.00	34.00	12209.71	592.90	26.90	528.00	.05	1862.06	.00	36.00
60.900	1080.00	34.01	12212.38	592.92	26.91	528.00	.09	1125.58	.00	36.00
60.900	1800.00	34.02	12219.82	592.97	26.92	528.00	.15	682.66	.01	36.00
60.900	3000.00	34.05	12240.38	593.10	26.95	528.00	.25	416.27	.01	36.00
60.900	5000.00	34.15	12297.09	593.49	27.05	528.00	.41	255.88	.02	36.00
61.100	648.00	34.00	12771.53	604.34	26.00	1056.00	.05	1867.84	.00	36.00
61.100	1080.00	34.01	12774.29	604.36	26.01	1056.00	.08	1129.05	.00	36.00
61.100	1800.00	34.02	12781.96	604.43	26.02	1056.00	.14	684.74	.01	36.00
61.100	3000.00	34.05	12803.19	604.60	26.05	1056.00	.23	417.52	.01	36.00
61.100	5000.00	34.15	12861.74	605.08	26.15	1056.00	.39	256.63	.01	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
61.200	648.00	34.00	12628.20	610.21	24.70	528.00	.05	1870.70	.00	36.00
61.200	1080.00	34.01	12631.00	610.25	24.71	528.00	.09	1130.76	.00	36.00
61.200	1800.00	34.02	12638.79	610.34	24.72	528.00	.14	685.77	.01	36.00
61.200	3000.00	34.06	12660.36	610.60	24.76	528.00	.24	418.14	.01	36.00
61.200	5000.00	34.15	12719.84	611.30	24.85	528.00	.39	257.01	.02	36.00
61.300	648.00	34.00	12727.47	579.70	26.10	528.00	.05	1873.58	.00	36.00
61.300	1080.00	34.01	12730.15	579.70	26.11	528.00	.08	1132.49	.00	36.00
61.300	1800.00	34.02	12737.58	579.71	26.12	528.00	.14	686.81	.01	36.00
61.300	3000.00	34.06	12758.17	579.72	26.16	528.00	.24	418.76	.01	36.00
61.300	5000.00	34.15	12814.90	579.77	26.25	528.00	.39	257.38	.01	36.00
61.500	648.00	34.00	12450.35	573.69	25.90	1056.00	.05	1879.22	.00	36.00
61.500	1080.00	34.01	12453.03	573.72	25.91	1056.00	.09	1135.87	.00	36.00
61.500	1800.00	34.02	12460.47	573.81	25.92	1056.00	.14	688.84	.01	36.00
61.500	3000.00	34.06	12481.08	574.06	25.96	1056.00	.24	419.98	.01	36.00
61.500	5000.00	34.15	12537.88	574.76	26.05	1056.00	.40	258.12	.02	36.00
61.600	648.00	34.00	11774.47	568.82	25.20	528.00	.06	1881.88	.00	36.00
61.600	1080.00	34.01	11777.14	568.85	25.21	528.00	.09	1137.47	.00	36.00
61.600	1800.00	34.02	11784.55	568.94	25.22	528.00	.15	689.80	.01	36.00
61.600	3000.00	34.06	11805.07	569.17	25.26	528.00	.25	420.56	.01	36.00
61.600	5000.00	34.16	11861.64	569.83	25.36	528.00	.42	258.47	.02	36.00
61.700	648.00	34.00	11921.35	572.47	27.10	528.00	.05	1884.58	.00	36.00
61.700	1080.00	34.01	11924.05	572.48	27.11	528.00	.09	1139.09	.00	36.00
61.700	1800.00	34.02	11931.54	572.52	27.12	528.00	.15	690.77	.01	36.00

	61.700	3000.00	34.06	11952.29	572.62	27.16	528.00	.25	421.14	.01	36.00
	61.700	5000.00	34.16	12009.48	572.90	27.26	528.00	.42	258.82	.02	36.00
*	61.900	648.00	34.00	15706.54	527.16	42.10	1056.00	.04	1891.69	.00	36.00
*	61.900	1080.00	34.01	15709.06	527.17	42.11	1056.00	.07	1143.36	.00	36.00
*	61.900	1800.00	34.02	15716.06	527.19	42.12	1056.00	.11	693.33	.00	36.00
*	61.900	3000.00	34.06	15735.42	527.27	42.16	1056.00	.19	422.68	.01	36.00
*	61.900	5000.00	34.16	15788.76	527.49	42.26	1056.00	.32	259.74	.01	36.00
*	62.100	648.00	34.00	8485.38	480.85	30.20	1056.00	.08	1895.53	.00	36.00
*	62.100	1080.00	34.01	8487.70	480.87	30.21	1056.00	.13	1145.67	.01	36.00
*	62.100	1800.00	34.02	8494.15	480.94	30.22	1056.00	.21	694.72	.01	36.00
*	62.100	3000.00	34.06	8512.01	481.12	30.26	1056.00	.35	423.51	.01	36.00
*	62.100	5000.00	34.16	8561.22	481.63	30.36	1056.00	.58	260.25	.02	36.00
*	62.200	648.00	34.00	11406.41	611.59	25.30	528.00	.06	1898.11	.00	36.00
*	62.200	1080.00	34.01	11409.34	611.61	25.31	528.00	.09	1147.21	.00	36.00
*	62.200	1800.00	34.02	11417.49	611.69	25.32	528.00	.16	695.65	.01	36.00
	62.200	3000.00	34.06	11440.03	611.91	25.36	528.00	.26	424.07	.01	36.00
	62.200	5000.00	34.16	11502.18	612.52	25.46	528.00	.43	260.58	.02	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
62.400	648.00	34.00	13208.92	531.64	35.20	1056.00	.05	1904.09	.00	36.00
62.400	1080.00	34.01	13211.57	531.72	35.21	1056.00	.08	1150.80	.00	36.00
62.400	1800.00	34.02	13218.94	531.94	35.22	1056.00	.14	697.80	.00	36.00
62.400	3000.00	34.06	13239.35	532.54	35.26	1056.00	.23	425.37	.01	36.00
62.400	5000.00	34.16	13295.66	534.21	35.36	1056.00	.38	261.36	.01	36.00
62.600	648.00	34.00	15477.71	474.92	56.00	1056.00	.04	1911.10	.00	36.00
62.600	1080.00	34.01	15480.09	474.94	56.01	1056.00	.07	1155.01	.00	36.00
62.600	1800.00	34.02	15486.71	474.99	56.02	1056.00	.12	700.33	.00	36.00
62.600	3000.00	34.06	15505.00	475.14	56.06	1056.00	.19	426.88	.01	36.00
62.600	5000.00	34.17	15555.42	475.56	56.17	1056.00	.32	262.28	.01	36.00
62.800	648.00	34.00	15721.67	584.44	44.30	1056.00	.04	1918.21	.00	36.00
62.800	1080.00	34.01	15724.61	584.49	44.31	1056.00	.07	1159.28	.00	36.00
62.800	1800.00	34.02	15732.78	584.63	44.32	1056.00	.11	702.89	.00	36.00
62.800	3000.00	34.06	15755.40	585.00	44.36	1056.00	.19	428.43	.01	36.00
62.800	5000.00	34.17	15817.74	586.03	44.47	1056.00	.32	263.20	.01	36.00
63.200	648.00	34.00	13873.03	453.88	46.10	2112.00	.05	1930.77	.00	36.00
63.200	1080.00	34.01	13875.34	453.91	46.11	2112.00	.08	1166.82	.00	36.00
63.200	1800.00	34.02	13881.73	453.98	46.12	2112.00	.13	707.42	.00	36.00
63.200	3000.00	34.06	13899.42	454.18	46.16	2112.00	.22	431.14	.01	36.00
63.200	5000.00	34.17	13948.17	454.73	46.27	2112.00	.36	264.84	.01	36.00
63.500	648.00	34.00	12741.69	449.49	46.10	1584.00	.05	1939.43	.00	36.00
63.500	1080.00	34.01	12743.98	449.50	46.11	1584.00	.08	1172.01	.00	36.00
63.500	1800.00	34.02	12750.36	449.52	46.12	1584.00	.14	710.53	.00	36.00

63.500	3000.00	34.06	12767.99	449.58	46.16	1584.00	.23	433.02	.01	36.00
63.500	5000.00	34.17	12816.56	449.73	46.27	1584.00	.39	265.97	.01	36.00
63.700	648.00	34.00	14491.63	517.86	40.10	1056.00	.04	1945.99	.00	36.00
63.700	1080.00	34.01	14494.29	517.88	40.11	1056.00	.07	1175.94	.00	36.00
63.700	1800.00	34.02	14501.68	517.94	40.12	1056.00	.12	712.90	.00	36.00
63.700	3000.00	34.06	14522.12	518.09	40.16	1056.00	.21	434.44	.01	36.00
63.700	5000.00	34.17	14578.43	518.53	40.27	1056.00	.34	266.82	.01	36.00
64.000	648.00	34.00	13017.30	558.24	34.10	1584.00	.05	1954.82	.00	36.00
64.000	1080.00	34.01	13020.21	558.26	34.11	1584.00	.08	1181.25	.00	36.00
64.000	1800.00	34.02	13028.27	558.32	34.12	1584.00	.14	716.08	.01	36.00
64.000	3000.00	34.06	13050.58	558.47	34.16	1584.00	.23	436.35	.01	36.00
64.000	5000.00	34.17	13112.08	560.47	34.27	1584.00	.38	267.98	.01	36.00
64.200	648.00	34.00	12938.01	534.26	38.10	1056.00	.05	1960.68	.00	36.00
64.200	1080.00	34.01	12940.81	534.30	38.11	1056.00	.08	1184.76	.00	36.00
64.200	1800.00	34.02	12948.56	534.41	38.12	1056.00	.14	718.19	.00	36.00
64.200	3000.00	34.06	12970.04	534.71	38.16	1056.00	.23	437.62	.01	36.00
64.200	5000.00	34.17	13029.21	535.52	38.27	1056.00	.38	268.74	.01	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
64.400	648.00	34.00	14223.51	476.22	46.30	1056.00	.05	1967.12	.00	36.00
64.400	1080.00	34.01	14226.03	476.25	46.31	1056.00	.08	1188.63	.00	36.00
64.400	1800.00	34.02	14233.00	476.33	46.32	1056.00	.13	720.51	.00	36.00
64.400	3000.00	34.06	14252.31	476.53	46.36	1056.00	.21	439.01	.01	36.00
64.400	5000.00	34.18	14305.51	477.10	46.48	1056.00	.35	269.58	.01	36.00
64.600	648.00	34.00	12706.63	408.14	55.80	1056.00	.05	1972.87	.00	36.00
64.600	1080.00	34.01	12708.80	408.16	55.81	1056.00	.08	1192.08	.00	36.00
64.600	1800.00	34.02	12714.81	408.20	55.82	1056.00	.14	722.58	.00	36.00
64.600	3000.00	34.06	12731.48	408.32	55.86	1056.00	.24	440.26	.01	36.00
64.600	5000.00	34.18	12777.37	408.66	55.98	1056.00	.39	270.33	.01	36.00
64.900	648.00	34.00	13691.22	446.03	44.80	1584.00	.05	1982.17	.00	36.00
64.900	1080.00	34.01	13693.61	446.04	44.81	1584.00	.08	1197.66	.00	36.00
64.900	1800.00	34.02	13700.22	446.06	44.82	1584.00	.13	725.93	.00	36.00
64.900	3000.00	34.06	13718.53	446.12	44.86	1584.00	.22	442.27	.01	36.00
64.900	5000.00	34.18	13768.90	446.27	44.98	1584.00	.36	271.54	.01	36.00
65.100	648.00	34.00	12854.35	493.36	35.30	1056.00	.05	1987.99	.00	36.00
65.100	1080.00	34.01	12857.00	493.38	35.31	1056.00	.08	1201.15	.00	36.00
65.100	1800.00	34.02	12864.37	493.46	35.32	1056.00	.14	728.03	.00	36.00
65.100	3000.00	34.06	12884.78	493.65	35.36	1056.00	.23	443.53	.01	36.00
65.100	5000.00	34.18	12940.97	494.19	35.48	1056.00	.39	272.30	.01	36.00
65.300	648.00	34.00	13676.65	470.29	39.90	1056.00	.05	1994.18	.00	36.00
65.300	1080.00	34.01	13679.19	470.31	39.91	1056.00	.08	1204.87	.00	36.00
65.300	1800.00	34.02	13686.26	470.34	39.92	1056.00	.13	730.26	.00	36.00

	65.300	3000.00	34.07	13705.81	470.43	39.97	1056.00	.22	444.87	.01	36.00
	65.300	5000.00	34.18	13759.62	470.69	40.08	1056.00	.36	273.11	.01	36.00
	65.500	648.00	34.00	15166.44	492.20	43.20	1056.00	.04	2001.04	.00	36.00
	65.500	1080.00	34.01	15169.13	492.21	43.21	1056.00	.07	1208.99	.00	36.00
	65.500	1800.00	34.02	15176.57	492.25	43.22	1056.00	.12	732.73	.00	36.00
	65.500	3000.00	34.07	15197.19	492.36	43.27	1056.00	.20	446.35	.01	36.00
	65.500	5000.00	34.18	15253.97	492.67	43.38	1056.00	.33	274.00	.01	36.00
*	65.700	648.00	34.00	12343.78	581.77	29.10	1056.00	.05	2006.63	.00	36.00
*	65.700	1080.00	34.01	12346.97	581.85	29.11	1056.00	.09	1212.34	.00	36.00
*	65.700	1800.00	34.02	12355.83	582.06	29.12	1056.00	.15	734.74	.01	36.00
*	65.700	3000.00	34.07	12380.35	582.66	29.17	1056.00	.24	447.57	.01	36.00
*	65.700	5000.00	34.18	12447.97	584.30	29.28	1056.00	.40	274.73	.02	36.00
	66.000	648.00	34.00	10743.51	428.89	38.20	1584.00	.06	2013.93	.00	36.00
	66.000	1080.00	34.01	10745.88	428.92	38.21	1584.00	.10	1216.72	.00	36.00
	66.000	1800.00	34.02	10752.46	428.98	38.22	1584.00	.17	737.37	.01	36.00
	66.000	3000.00	34.07	10770.68	429.16	38.27	1584.00	.28	449.14	.01	36.00
	66.000	5000.00	34.18	10820.83	429.65	38.38	1584.00	.46	275.69	.02	36.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	66.200	648.00	34.00	11630.67	358.26	58.60	1056.00	.06	2019.19	.00	36.00
	66.200	1080.00	34.01	11632.67	358.28	58.61	1056.00	.09	1219.88	.00	36.00
	66.200	1800.00	34.02	11638.23	358.33	58.62	1056.00	.15	739.27	.00	36.00
	66.200	3000.00	34.07	11653.62	358.47	58.67	1056.00	.26	450.28	.01	36.00
	66.200	5000.00	34.19	11696.00	358.86	58.79	1056.00	.43	276.37	.01	36.00
	66.400	648.00	34.00	10502.62	408.71	35.10	1056.00	.06	2023.95	.00	36.00
	66.400	1080.00	34.01	10504.93	408.74	35.11	1056.00	.10	1222.73	.00	36.00
	66.400	1800.00	34.02	10511.33	408.80	35.12	1056.00	.17	740.98	.01	36.00
	66.400	3000.00	34.07	10529.05	408.98	35.17	1056.00	.28	451.31	.01	36.00
	66.400	5000.00	34.19	10577.85	409.46	35.29	1056.00	.47	276.99	.02	36.00
	66.600	648.00	34.00	10338.59	488.06	31.10	1056.00	.06	2028.63	.00	36.00
	66.600	1080.00	34.01	10341.36	488.08	31.11	1056.00	.10	1225.54	.00	36.00
	66.600	1800.00	34.02	10349.05	488.13	31.12	1056.00	.17	742.67	.01	36.00
	66.600	3000.00	34.07	10370.33	488.27	31.17	1056.00	.29	452.33	.01	36.00
	66.600	5000.00	34.19	10428.91	488.66	31.29	1056.00	.48	277.60	.02	36.00
	66.800	648.00	34.00	9604.82	440.28	36.30	1056.00	.07	2032.97	.00	36.00
	66.800	1080.00	34.01	9607.36	440.36	36.31	1056.00	.11	1228.15	.00	36.00
	66.800	1800.00	34.02	9614.40	440.59	36.32	1056.00	.19	744.24	.01	36.00
	66.800	3000.00	34.07	9633.90	441.21	36.37	1056.00	.31	453.27	.01	36.00
	66.800	5000.00	34.19	9687.67	442.92	36.49	1056.00	.52	278.17	.02	36.00
*	67.000	648.00	34.00	11821.90	386.75	60.90	1056.00	.05	2038.33	.00	36.00
*	67.000	1080.00	34.01	11824.16	386.77	60.91	1056.00	.09	1231.36	.00	36.00
*	67.000	1800.00	34.03	11830.43	386.84	60.93	1056.00	.15	746.16	.00	36.00

*	67.000	3000.00	34.07	11847.79	387.02	60.97	1056.00	.25	454.43	.01	36.00
*	67.000	5000.00	34.19	11895.55	387.52	61.09	1056.00	.42	278.87	.01	36.00
	67.200	648.00	34.00	10704.41	418.83	38.20	1056.00	.06	2043.17	.00	36.00
	67.200	1080.00	34.01	10706.88	418.85	38.21	1056.00	.10	1234.27	.00	36.00
	67.200	1800.00	34.03	10713.77	418.89	38.23	1056.00	.17	747.91	.01	36.00
	67.200	3000.00	34.07	10732.82	419.00	38.27	1056.00	.28	455.48	.01	36.00
	67.200	5000.00	34.20	10785.23	419.31	38.40	1056.00	.46	279.50	.02	36.00
	67.400	648.00	34.00	10992.92	397.70	39.30	1056.00	.06	2048.15	.00	36.00
	67.400	1080.00	34.01	10995.29	397.72	39.31	1056.00	.10	1237.25	.00	36.00
	67.400	1800.00	34.03	11001.84	397.76	39.33	1056.00	.16	749.70	.01	36.00
	67.400	3000.00	34.07	11019.99	397.89	39.37	1056.00	.27	456.56	.01	36.00
	67.400	5000.00	34.20	11069.91	398.23	39.50	1056.00	.45	280.15	.02	36.00
	67.600	648.00	34.00	11167.68	421.51	38.90	1056.00	.06	2053.20	.00	36.00
	67.600	1080.00	34.01	11170.20	421.52	38.91	1056.00	.10	1240.29	.00	36.00
	67.600	1800.00	34.03	11177.23	421.54	38.93	1056.00	.16	751.52	.01	36.00
	67.600	3000.00	34.07	11196.66	421.58	38.97	1056.00	.27	457.65	.01	36.00
	67.600	5000.00	34.20	11250.10	421.71	39.10	1056.00	.44	280.81	.02	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
67.800	648.00	34.00	10215.39	434.45	38.10	1056.00	.06	2057.83	.00	36.00
67.800	1080.00	34.01	10218.02	434.47	38.11	1056.00	.11	1243.06	.00	36.00
67.800	1800.00	34.03	10225.31	434.52	38.13	1056.00	.18	753.19	.01	36.00
67.800	3000.00	34.07	10245.51	434.67	38.17	1056.00	.29	458.65	.01	36.00
67.800	5000.00	34.20	10301.07	435.08	38.30	1056.00	.49	281.42	.02	36.00
68.000	648.00	34.00	11009.95	398.65	57.10	1056.00	.06	2062.81	.00	36.00
68.000	1080.00	34.01	11012.38	398.73	57.11	1056.00	.10	1246.05	.00	36.00
68.000	1800.00	34.03	11019.14	398.93	57.13	1056.00	.16	754.99	.01	36.00
68.000	3000.00	34.07	11037.86	399.49	57.17	1056.00	.27	459.73	.01	36.00
68.000	5000.00	34.20	11089.44	401.04	57.30	1056.00	.45	282.07	.02	36.00
68.200	648.00	34.00	9613.90	416.19	38.20	1056.00	.07	2067.16	.00	36.00
68.200	1080.00	34.01	9616.47	416.22	38.21	1056.00	.11	1248.67	.00	36.00
68.200	1800.00	34.03	9623.62	416.29	38.23	1056.00	.19	756.55	.01	36.00
68.200	3000.00	34.07	9643.38	416.49	38.27	1056.00	.31	460.67	.01	36.00
68.200	5000.00	34.20	9697.75	417.06	38.40	1056.00	.52	282.64	.02	36.00
68.400	648.00	34.00	10075.22	360.09	42.20	1056.00	.06	2071.72	.00	36.00
68.400	1080.00	34.01	10077.47	360.09	42.21	1056.00	.11	1251.40	.00	36.00
68.400	1800.00	34.03	10083.69	360.10	42.23	1056.00	.18	758.20	.01	36.00
68.400	3000.00	34.08	10100.91	360.12	42.28	1056.00	.30	461.66	.01	36.00
68.400	5000.00	34.21	10148.25	360.18	42.41	1056.00	.49	283.23	.02	36.00
68.600	648.00	34.00	9688.10	382.73	40.10	1056.00	.07	2076.11	.00	36.00
68.600	1080.00	34.01	9690.51	382.76	40.11	1056.00	.11	1254.04	.00	36.00
68.600	1800.00	34.03	9697.22	382.84	40.13	1056.00	.19	759.78	.01	36.00

	68.600	3000.00	34.08	9715.78	383.07	40.18	1056.00	.31	462.61	.01	36.00
	68.600	5000.00	34.21	9766.83	383.70	40.31	1056.00	.51	283.81	.02	36.00
	68.800	648.00	34.00	9688.34	439.14	32.10	1056.00	.07	2080.49	.00	36.00
	68.800	1080.00	34.01	9691.13	439.18	32.11	1056.00	.11	1256.67	.00	36.00
	68.800	1800.00	34.03	9698.89	439.30	32.13	1056.00	.19	761.36	.01	36.00
	68.800	3000.00	34.08	9720.36	439.61	32.18	1056.00	.31	463.56	.01	36.00
	68.800	5000.00	34.21	9779.43	440.46	32.31	1056.00	.51	284.38	.02	36.00
*	69.000	648.00	34.00	12885.84	436.59	55.40	1056.00	.05	2086.33	.00	36.00
*	69.000	1080.00	34.01	12888.66	436.63	55.41	1056.00	.08	1260.17	.00	36.00
*	69.000	1800.00	34.03	12896.48	436.73	55.43	1056.00	.14	763.46	.00	36.00
*	69.000	3000.00	34.08	12918.11	437.01	55.48	1056.00	.23	464.82	.01	36.00
*	69.000	5000.00	34.21	12977.62	437.78	55.61	1056.00	.39	285.14	.01	36.00
	69.300	648.00	34.00	10927.29	404.80	35.10	1584.00	.06	2093.75	.00	36.00
	69.300	1080.00	34.01	10929.95	404.82	35.11	1584.00	.10	1264.62	.00	36.00
	69.300	1800.00	34.03	10937.33	404.88	35.13	1584.00	.16	766.13	.01	36.00
	69.300	3000.00	34.08	10957.74	405.04	35.18	1584.00	.27	466.43	.01	36.00
	69.300	5000.00	34.22	11013.88	405.49	35.32	1584.00	.45	286.11	.02	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
69.500	648.00	34.00	10620.97	420.73	37.20	1056.00	.06	2098.56	.00	36.00
69.500	1080.00	34.01	10623.72	420.76	37.21	1056.00	.10	1267.51	.00	36.00
69.500	1800.00	34.03	10631.39	420.85	37.23	1056.00	.17	767.87	.01	36.00
69.500	3000.00	34.08	10652.60	421.09	37.28	1056.00	.28	467.47	.01	36.00
69.500	5000.00	34.22	10710.95	421.76	37.42	1056.00	.47	286.74	.02	36.00
69.700	648.00	34.00	10585.75	390.44	37.90	1056.00	.06	2103.35	.00	36.00
69.700	1080.00	34.01	10588.34	390.45	37.91	1056.00	.10	1270.38	.00	36.00
69.700	1800.00	34.03	10595.52	390.49	37.93	1056.00	.17	769.59	.01	36.00
69.700	3000.00	34.08	10615.39	390.61	37.98	1056.00	.28	468.51	.01	36.00
69.700	5000.00	34.22	10670.00	390.93	38.12	1056.00	.47	287.36	.02	36.00
69.900	648.00	34.00	10579.23	369.63	36.90	1056.00	.06	2108.14	.00	36.00
69.900	1080.00	34.01	10581.71	369.66	36.91	1056.00	.10	1273.26	.00	36.00
69.900	1800.00	34.03	10588.56	369.74	36.93	1056.00	.17	771.32	.01	36.00
69.900	3000.00	34.08	10607.53	369.95	36.98	1056.00	.28	469.55	.01	36.00
69.900	5000.00	34.22	10659.70	370.53	37.12	1056.00	.47	287.99	.02	36.00
70.100	648.00	34.00	11376.31	377.81	40.20	1056.00	.06	2113.29	.00	36.00
70.100	1080.00	34.01	11378.85	377.83	40.21	1056.00	.09	1276.35	.00	36.00
70.100	1800.00	34.03	11385.90	377.89	40.23	1056.00	.16	773.17	.01	36.00
70.100	3000.00	34.08	11405.43	378.07	40.28	1056.00	.26	470.66	.01	36.00
70.100	5000.00	34.22	11459.11	378.54	40.42	1056.00	.44	288.66	.01	36.00
70.300	648.00	34.00	10397.50	365.76	35.80	1056.00	.06	2117.99	.00	36.00
70.300	1080.00	34.01	10399.98	365.79	35.81	1056.00	.10	1279.17	.00	36.00
70.300	1800.00	34.03	10406.87	365.87	35.83	1056.00	.17	774.87	.01	36.00

	70.300	3000.00	34.08	10425.94	366.11	35.88	1056.00	.29	471.68	.01	36.00
	70.300	5000.00	34.22	10478.35	366.75	36.02	1056.00	.48	289.28	.02	36.00
	70.400	648.00	34.00	8692.26	404.30	31.10	528.00	.07	2119.96	.00	36.00
	70.400	1080.00	34.01	8695.00	404.33	31.11	528.00	.12	1280.35	.00	36.00
	70.400	1800.00	34.03	8702.63	404.44	31.13	528.00	.21	775.58	.01	36.00
	70.400	3000.00	34.08	8723.74	404.73	31.18	528.00	.34	472.11	.01	36.00
	70.400	5000.00	34.22	8781.79	405.52	31.32	528.00	.57	289.53	.02	36.00
*	70.500	648.00	34.00	14222.04	473.37	54.50	528.00	.05	2123.18	.00	36.00
*	70.500	1080.00	34.01	14225.26	473.41	54.51	528.00	.08	1282.28	.00	36.00
*	70.500	1800.00	34.03	14234.23	473.53	54.53	528.00	.13	776.74	.00	36.00
*	70.500	3000.00	34.08	14259.01	473.87	54.58	528.00	.21	472.81	.01	36.00
*	70.500	5000.00	34.23	14327.17	474.80	54.73	528.00	.35	289.95	.01	36.00
	70.700	648.00	34.00	12872.21	455.57	55.80	1056.00	.05	2129.01	.00	36.00
	70.700	1080.00	34.01	12875.37	455.61	55.81	1056.00	.08	1285.78	.00	36.00
	70.700	1800.00	34.03	12884.19	455.72	55.83	1056.00	.14	778.84	.00	36.00
	70.700	3000.00	34.08	12908.58	456.02	55.88	1056.00	.23	474.07	.01	36.00
	70.700	5000.00	34.23	12975.63	456.80	56.03	1056.00	.39	290.72	.01	36.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	70.900	648.00	34.00	10406.49	414.37	37.10	1056.00	.06	2133.72	.00	36.00
	70.900	1080.00	34.01	10409.37	414.40	37.11	1056.00	.10	1288.61	.00	36.00
	70.900	1800.00	34.03	10417.37	414.46	37.13	1056.00	.17	780.54	.01	36.00
	70.900	3000.00	34.08	10439.51	414.66	37.18	1056.00	.29	475.09	.01	36.00
	70.900	5000.00	34.23	10500.44	416.71	37.33	1056.00	.48	291.33	.02	36.00
	71.100	648.00	34.00	9137.05	482.92	29.20	1056.00	.07	2137.85	.00	36.00
	71.100	1080.00	34.01	9140.42	482.94	29.21	1056.00	.12	1291.09	.00	36.00
	71.100	1800.00	34.03	9149.80	482.98	29.23	1056.00	.20	782.03	.01	36.00
	71.100	3000.00	34.08	9175.72	483.11	29.28	1056.00	.33	475.99	.01	36.00
	71.100	5000.00	34.23	9246.94	483.46	29.43	1056.00	.54	291.87	.02	36.00
*	71.300	648.00	34.00	11591.10	442.57	42.00	1056.00	.06	2143.10	.00	36.00
*	71.300	1080.00	34.01	11594.23	442.59	42.01	1056.00	.09	1294.24	.00	36.00
*	71.300	1800.00	34.03	11602.94	442.67	42.03	1056.00	.16	783.92	.01	36.00
*	71.300	3000.00	34.09	11627.03	442.87	42.09	1056.00	.26	477.12	.01	36.00
*	71.300	5000.00	34.24	11693.27	443.98	42.24	1056.00	.43	292.56	.01	36.00
*	71.500	648.00	34.00	15989.32	499.59	50.10	1056.00	.04	2150.34	.00	36.00
*	71.500	1080.00	34.01	15992.92	499.63	50.11	1056.00	.07	1298.58	.00	36.00
*	71.500	1800.00	34.03	16002.92	499.71	50.13	1056.00	.11	786.53	.00	36.00
*	71.500	3000.00	34.09	16030.56	499.96	50.19	1056.00	.19	478.69	.01	36.00
*	71.500	5000.00	34.24	16106.51	500.63	50.34	1056.00	.31	293.51	.01	36.00
*	71.700	648.00	34.00	9767.61	496.09	31.80	1056.00	.07	2154.76	.00	36.00
*	71.700	1080.00	34.01	9771.19	496.14	31.81	1056.00	.11	1301.24	.00	36.00
*	71.700	1800.00	34.03	9781.16	496.28	31.83	1056.00	.18	788.12	.01	36.00

*	71.700	3000.00	34.09	9808.72	496.66	31.89	1056.00	.31	479.65	.01	36.00
*	71.700	5000.00	34.24	9884.47	497.71	32.04	1056.00	.51	294.08	.02	36.00
	71.900	648.00	34.00	9071.78	445.77	31.00	1056.00	.07	2158.87	.00	36.00
	71.900	1080.00	34.01	9075.01	445.83	31.01	1056.00	.12	1303.70	.00	36.00
	71.900	1800.00	34.03	9083.97	446.01	31.03	1056.00	.20	789.60	.01	36.00
	71.900	3000.00	34.09	9108.76	446.50	31.09	1056.00	.33	480.54	.01	36.00
	71.900	5000.00	34.24	9176.94	447.85	31.24	1056.00	.54	294.62	.02	36.00
	72.100	648.00	34.00	9140.38	509.47	30.90	1056.00	.07	2163.00	.00	36.00
	72.100	1080.00	34.01	9144.14	509.50	30.91	1056.00	.12	1306.19	.00	36.00
	72.100	1800.00	34.03	9154.55	509.58	30.93	1056.00	.20	791.09	.01	36.00
	72.100	3000.00	34.09	9183.36	509.78	30.99	1056.00	.33	481.44	.01	36.00
	72.100	5000.00	34.24	9262.45	510.35	31.14	1056.00	.54	295.17	.02	36.00
*	72.300	648.00	34.00	10508.82	421.86	41.10	1056.00	.06	2167.76	.00	36.00
*	72.300	1080.00	34.01	10511.98	421.89	41.11	1056.00	.10	1309.04	.00	36.00
*	72.300	1800.00	34.03	10520.75	421.95	41.13	1056.00	.17	792.81	.01	36.00
*	72.300	3000.00	34.09	10545.02	422.11	41.19	1056.00	.28	482.47	.01	36.00
	72.300	5000.00	34.25	10611.60	422.57	41.35	1056.00	.47	295.79	.02	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
72.500	648.00	34.00	12275.67	365.49	60.20	1056.00	.05	2173.32	.00	36.00
72.500	1080.00	34.01	12278.44	365.51	60.21	1056.00	.09	1312.38	.00	36.00
72.500	1800.00	34.03	12286.14	365.58	60.23	1056.00	.15	794.81	.00	36.00
72.500	3000.00	34.09	12307.43	365.75	60.29	1056.00	.24	483.67	.01	36.00
72.500	5000.00	34.25	12365.88	366.24	60.45	1056.00	.40	296.51	.01	36.00
72.700	648.00	34.00	10543.95	406.66	36.20	1056.00	.06	2178.09	.00	36.00
72.700	1080.00	34.01	10547.05	406.69	36.21	1056.00	.10	1315.24	.00	36.00
72.700	1800.00	34.03	10555.66	406.78	36.23	1056.00	.17	796.53	.01	36.00
72.700	3000.00	34.09	10579.44	407.04	36.29	1056.00	.28	484.71	.01	36.00
72.700	5000.00	34.25	10644.74	407.72	36.45	1056.00	.47	297.14	.02	36.00
72.900	648.00	34.00	10582.70	389.79	36.10	1056.00	.06	2182.88	.00	36.00
72.900	1080.00	34.01	10585.68	389.81	36.11	1056.00	.10	1318.12	.00	36.00
72.900	1800.00	34.03	10593.95	389.88	36.13	1056.00	.17	798.25	.01	36.00
72.900	3000.00	34.09	10616.80	390.06	36.19	1056.00	.28	485.75	.01	36.00
72.900	5000.00	34.25	10679.53	390.55	36.35	1056.00	.47	297.77	.02	36.00
73.200	648.00	34.00	10032.73	376.60	36.30	1584.00	.06	2189.69	.00	36.00
73.200	1080.00	34.01	10035.65	376.64	36.31	1584.00	.11	1322.20	.00	36.00
73.200	1800.00	34.03	10043.73	376.74	36.33	1584.00	.18	800.71	.01	36.00
73.200	3000.00	34.09	10066.08	377.01	36.39	1584.00	.30	487.22	.01	36.00
73.200	5000.00	34.26	10127.46	377.74	36.56	1584.00	.49	298.66	.02	36.00
73.400	648.00	34.00	10342.88	364.65	37.10	1056.00	.06	2194.38	.00	36.00
73.400	1080.00	34.01	10345.72	364.67	37.11	1056.00	.10	1325.01	.00	36.00
73.400	1800.00	34.03	10353.60	364.73	37.13	1056.00	.17	802.40	.01	36.00

73.400	3000.00	34.09	10375.38	364.89	37.19	1056.00	.29	488.24	.01	36.00
73.400	5000.00	34.26	10435.15	365.34	37.36	1056.00	.48	299.27	.02	36.00
73.600	648.00	34.00	10599.80	364.52	36.20	1056.00	.06	2199.17	.00	36.00
73.600	1080.00	34.01	10602.67	364.55	36.21	1056.00	.10	1327.89	.00	36.00
73.600	1800.00	34.03	10610.61	364.62	36.23	1056.00	.17	804.13	.01	36.00
73.600	3000.00	34.09	10632.56	364.83	36.29	1056.00	.28	489.28	.01	36.00
73.600	5000.00	34.26	10692.82	365.40	36.46	1056.00	.47	299.90	.02	36.00
73.800	648.00	34.00	10277.29	370.77	36.10	1056.00	.06	2203.83	.00	36.00
73.800	1080.00	34.01	10280.21	370.79	36.11	1056.00	.11	1330.69	.00	36.00
73.800	1800.00	34.03	10288.34	370.83	36.13	1056.00	.17	805.80	.01	36.00
73.800	3000.00	34.09	10310.81	370.95	36.19	1056.00	.29	490.28	.01	36.00
73.800	5000.00	34.26	10372.46	371.28	36.36	1056.00	.48	300.51	.02	36.00
74.000	648.00	34.00	10999.23	383.93	37.00	1056.00	.06	2208.81	.00	36.00
74.000	1080.00	34.01	11002.28	383.95	37.01	1056.00	.10	1333.67	.00	36.00
74.000	1800.00	34.03	11010.75	384.01	37.03	1056.00	.16	807.60	.01	36.00
74.000	3000.00	34.10	11034.16	384.19	37.10	1056.00	.27	491.36	.01	36.00
74.000	5000.00	34.26	11098.42	384.80	37.26	1056.00	.45	301.16	.01	36.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	74.200	648.00	34.00	9550.37	444.50	29.90	1056.00	.07	2213.13	.00	36.00
	74.200	1080.00	34.01	9553.92	444.55	29.91	1056.00	.11	1336.27	.00	36.00
	74.200	1800.00	34.03	9563.81	444.70	29.93	1056.00	.19	809.16	.01	36.00
	74.200	3000.00	34.10	9591.15	445.12	30.00	1056.00	.31	492.30	.01	36.00
	74.200	5000.00	34.26	9666.23	446.26	30.16	1056.00	.52	301.72	.02	36.00
	74.400	648.00	34.00	11591.38	438.63	41.40	1056.00	.06	2218.38	.00	36.00
	74.400	1080.00	34.01	11594.91	438.74	41.41	1056.00	.09	1339.42	.00	36.00
	74.400	1800.00	34.04	11604.75	439.03	41.44	1056.00	.16	811.05	.01	36.00
	74.400	3000.00	34.10	11631.94	439.84	41.50	1056.00	.26	493.44	.01	36.00
	74.400	5000.00	34.27	11706.72	442.06	41.67	1056.00	.43	302.41	.01	36.00
*	74.600	648.00	34.00	15256.46	462.62	61.20	1056.00	.04	2225.28	.00	36.00
*	74.600	1080.00	34.01	15260.24	462.65	61.21	1056.00	.07	1343.56	.00	36.00
*	74.600	1800.00	34.04	15270.74	462.74	61.24	1056.00	.12	813.54	.00	36.00
*	74.600	3000.00	34.10	15299.75	462.97	61.30	1056.00	.20	494.93	.01	36.00
*	74.600	5000.00	34.27	15379.35	463.81	61.47	1056.00	.33	303.31	.01	36.00
*	74.800	648.00	34.00	9947.44	382.00	35.20	1056.00	.07	2229.78	.00	36.00
*	74.800	1080.00	34.01	9950.57	382.02	35.21	1056.00	.11	1346.27	.00	36.00
*	74.800	1800.00	34.04	9959.28	382.07	35.24	1056.00	.18	815.16	.01	36.00
*	74.800	3000.00	34.10	9983.33	382.23	35.30	1056.00	.30	495.91	.01	36.00
*	74.800	5000.00	34.27	10049.32	382.65	35.47	1056.00	.50	303.90	.02	36.00
	74.900	648.00	34.00	9998.63	397.82	35.10	528.00	.06	2232.05	.00	36.00
	74.900	1080.00	34.01	10001.88	397.85	35.11	528.00	.11	1347.62	.00	36.00
	74.900	1800.00	34.04	10010.92	397.94	35.14	528.00	.18	815.97	.01	36.00

74.900	3000.00	34.10	10035.89	398.18	35.20	528.00	.30	496.40	.01	36.00
74.900	5000.00	34.27	10104.43	398.86	35.37	528.00	.49	304.20	.02	36.00
75.100	648.00	34.00	10995.31	450.12	33.10	1056.00	.06	2237.03	.00	36.00
75.100	1080.00	34.01	10999.02	450.15	33.11	1056.00	.10	1350.61	.00	36.00
75.100	1800.00	34.04	11009.34	450.22	33.14	1056.00	.16	817.77	.01	36.00
75.100	3000.00	34.10	11037.87	450.42	33.20	1056.00	.27	497.48	.01	36.00
75.100	5000.00	34.27	11116.12	451.53	33.37	1056.00	.45	304.85	.02	36.00
75.300	648.00	34.00	11927.36	474.74	33.10	1056.00	.05	2242.42	.00	36.00
75.300	1080.00	34.01	11931.31	474.79	33.11	1056.00	.09	1353.85	.00	36.00
75.300	1800.00	34.04	11942.30	474.92	33.14	1056.00	.15	819.71	.01	36.00
75.300	3000.00	34.10	11972.68	475.27	33.20	1056.00	.25	498.65	.01	36.00
75.300	5000.00	34.28	12056.04	476.25	33.38	1056.00	.41	305.56	.01	36.00
75.700	648.00	34.00	10497.82	398.23	33.30	2112.00	.06	2251.93	.00	36.00
75.700	1080.00	34.01	10501.18	398.26	33.31	2112.00	.10	1359.56	.00	36.00
75.700	1800.00	34.04	10510.52	398.34	33.34	2112.00	.17	823.14	.01	36.00
75.700	3000.00	34.10	10536.32	398.57	33.40	2112.00	.28	500.71	.01	36.00
75.700	5000.00	34.28	10607.08	399.22	33.58	2112.00	.47	306.80	.02	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
77.600	648.00	34.01	11012.82	409.11	43.21	10032.00	.06	2299.29	.00	36.00
77.600	1080.00	34.01	11016.47	409.14	43.21	10032.00	.10	1387.98	.00	36.00
77.600	1800.00	34.04	11026.59	409.22	43.24	10032.00	.16	840.21	.01	36.00
77.600	3000.00	34.11	11054.54	409.44	43.31	10032.00	.27	510.98	.01	36.00
77.600	5000.00	34.29	11131.14	410.05	43.49	10032.00	.45	313.01	.02	36.00
77.800	648.00	34.01	9716.17	481.85	26.11	1056.00	.07	2303.69	.00	36.00
77.800	1080.00	34.01	9720.49	481.90	26.11	1056.00	.11	1390.62	.00	36.00
77.800	1800.00	34.04	9732.53	482.03	26.14	1056.00	.18	841.80	.01	36.00
77.800	3000.00	34.11	9765.76	482.38	26.21	1056.00	.31	511.94	.01	36.00
77.800	5000.00	34.30	9856.89	483.72	26.40	1056.00	.51	313.58	.02	36.00
78.200	648.00	34.01	10510.46	393.58	49.21	2112.00	.06	2313.20	.00	36.00
78.200	1080.00	34.01	10514.04	393.68	49.21	2112.00	.10	1396.33	.00	36.00
78.200	1800.00	34.04	10524.02	393.94	49.24	2112.00	.17	845.23	.01	36.00
78.200	3000.00	34.11	10551.61	394.66	49.31	2112.00	.28	514.00	.01	36.00
78.200	5000.00	34.30	10627.34	396.35	49.50	2112.00	.47	314.83	.02	36.00
78.400	648.00	34.01	10937.97	468.60	31.21	1056.00	.06	2318.15	.00	36.00
78.400	1080.00	34.01	10942.28	468.64	31.21	1056.00	.10	1399.31	.00	36.00
78.400	1800.00	34.04	10954.28	468.77	31.24	1056.00	.16	847.01	.01	36.00
78.400	3000.00	34.11	10987.41	469.12	31.31	1056.00	.27	515.07	.01	36.00
78.400	5000.00	34.30	11078.19	470.06	31.50	1056.00	.45	315.48	.02	36.00
78.600	648.00	34.01	10395.37	424.63	42.11	1056.00	.06	2322.86	.00	36.00
78.600	1080.00	34.01	10399.30	424.68	42.11	1056.00	.10	1402.13	.00	36.00
78.600	1800.00	34.04	10410.23	424.81	42.14	1056.00	.17	848.71	.01	36.00

	78.600	3000.00	34.11	10440.42	425.18	42.21	1056.00	.29	516.09	.01	36.00
	78.600	5000.00	34.31	10523.15	426.11	42.41	1056.00	.48	316.10	.02	36.00
	78.800	648.00	34.01	10715.05	419.03	40.01	1056.00	.06	2327.71	.00	36.00
	78.800	1080.00	34.01	10718.95	419.07	40.01	1056.00	.10	1405.04	.00	36.00
	78.800	1800.00	34.04	10729.81	419.19	40.04	1056.00	.17	850.46	.01	36.00
	78.800	3000.00	34.11	10759.78	419.51	40.11	1056.00	.28	517.15	.01	36.00
	78.800	5000.00	34.31	10841.89	420.40	40.31	1056.00	.46	316.73	.02	36.00
	79.000	648.00	34.01	11808.71	445.87	40.21	1056.00	.05	2333.05	.00	36.00
	79.000	1080.00	34.01	11812.89	445.90	40.21	1056.00	.09	1408.25	.00	36.00
	79.000	1800.00	34.04	11824.52	445.99	40.24	1056.00	.15	852.38	.01	36.00
	79.000	3000.00	34.11	11856.63	446.24	40.31	1056.00	.25	518.31	.01	36.00
	79.000	5000.00	34.31	11944.54	447.06	40.51	1056.00	.42	317.44	.01	36.00
*	79.200	648.00	34.01	26863.42	673.83	73.61	1056.00	.02	2345.22	.00	36.00
*	79.200	1080.00	34.01	26869.77	673.88	73.61	1056.00	.04	1415.55	.00	36.00
*	79.200	1800.00	34.04	26887.46	674.00	73.64	1056.00	.07	856.77	.00	36.00
*	79.200	3000.00	34.11	26936.27	674.35	73.71	1056.00	.11	520.94	.00	36.00
*	79.200	5000.00	34.31	27069.94	675.29	73.91	1056.00	.18	319.02	.01	36.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
*	79.600	648.00	34.01	10927.87	392.58	38.21	2112.00	.06	2355.11	.00	36.00
*	79.600	1080.00	34.01	10931.61	392.62	38.21	2112.00	.10	1421.49	.00	36.00
*	79.600	1800.00	34.04	10942.00	392.73	38.24	2112.00	.16	860.33	.01	36.00
*	79.600	3000.00	34.11	10970.71	393.03	38.31	2112.00	.27	523.08	.01	36.00
*	79.600	5000.00	34.31	11049.32	393.89	38.51	2112.00	.45	320.32	.02	36.00
	79.800	648.00	34.01	10370.19	393.21	34.01	1056.00	.06	2359.80	.00	36.00
	79.800	1080.00	34.01	10373.91	393.25	34.01	1056.00	.10	1424.30	.00	36.00
	79.800	1800.00	34.04	10384.26	393.36	34.04	1056.00	.17	862.02	.01	36.00
	79.800	3000.00	34.11	10412.84	393.65	34.11	1056.00	.29	524.10	.01	36.00
	79.800	5000.00	34.31	10491.11	394.36	34.31	1056.00	.48	320.94	.02	36.00
	80.000	648.00	34.01	10470.73	383.15	37.21	1056.00	.06	2364.54	.00	36.00
	80.000	1080.00	34.01	10474.39	383.20	37.21	1056.00	.10	1427.15	.00	36.00
	80.000	1800.00	34.04	10484.55	383.33	37.24	1056.00	.17	863.73	.01	36.00
	80.000	3000.00	34.11	10512.61	383.69	37.31	1056.00	.29	525.13	.01	36.00
	80.000	5000.00	34.31	10589.49	384.75	37.51	1056.00	.47	321.56	.02	36.00
	80.200	648.00	34.01	11284.51	384.68	42.11	1056.00	.06	2369.65	.00	36.00
	80.200	1080.00	34.02	11288.20	384.71	42.12	1056.00	.10	1430.21	.00	36.00
	80.200	1800.00	34.04	11298.47	384.79	42.14	1056.00	.16	865.57	.01	36.00
	80.200	3000.00	34.12	11326.81	385.01	42.22	1056.00	.26	526.24	.01	36.00
	80.200	5000.00	34.32	11404.39	385.61	42.42	1056.00	.44	322.23	.01	36.00
	80.400	648.00	34.01	11867.09	396.81	43.21	1056.00	.05	2375.02	.00	36.00
	80.400	1080.00	34.02	11870.92	396.84	43.22	1056.00	.09	1433.44	.00	36.00
	80.400	1800.00	34.04	11881.56	396.91	43.24	1056.00	.15	867.51	.00	36.00

	80.400	3000.00	34.12	11910.97	397.11	43.32	1056.00	.25	527.40	.01	36.00
	80.400	5000.00	34.32	11991.46	397.67	43.52	1056.00	.42	322.93	.01	36.00
	80.600	648.00	34.01	11368.48	402.21	40.01	1056.00	.06	2380.17	.00	36.00
	80.600	1080.00	34.02	11372.38	402.24	40.02	1056.00	.09	1436.53	.00	36.00
	80.600	1800.00	34.04	11383.22	402.32	40.04	1056.00	.16	869.37	.01	36.00
	80.600	3000.00	34.12	11413.16	402.53	40.12	1056.00	.26	528.52	.01	36.00
	80.600	5000.00	34.32	11495.08	403.05	40.32	1056.00	.43	323.60	.01	36.00
	80.800	648.00	34.01	11312.02	411.51	34.01	1056.00	.06	2385.29	.00	36.00
	80.800	1080.00	34.02	11316.01	411.55	34.02	1056.00	.10	1439.60	.00	36.00
	80.800	1800.00	34.04	11327.15	411.68	34.04	1056.00	.16	871.21	.01	36.00
	80.800	3000.00	34.12	11357.90	412.03	34.12	1056.00	.26	529.63	.01	36.00
	80.800	5000.00	34.32	11442.09	412.94	34.32	1056.00	.44	324.27	.01	36.00
	81.200	648.00	34.01	11769.13	340.70	50.01	2112.00	.06	2395.95	.00	36.00
	81.200	1080.00	34.02	11772.47	340.72	50.02	2112.00	.09	1446.00	.00	36.00
	81.200	1800.00	34.04	11781.78	340.79	50.04	2112.00	.15	875.05	.00	36.00
	81.200	3000.00	34.12	11807.46	340.99	50.12	2112.00	.25	531.94	.01	36.00
	81.200	5000.00	34.32	11877.77	341.54	50.32	2112.00	.42	325.67	.01	36.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	81.400	648.00	34.01	12520.47	441.70	42.11	1056.00	.05	2401.61	.00	36.00
	81.400	1080.00	34.02	12524.83	441.70	42.12	1056.00	.09	1449.40	.00	36.00
	81.400	1800.00	34.04	12536.93	441.73	42.14	1056.00	.14	877.09	.00	36.00
	81.400	3000.00	34.12	12570.34	441.79	42.22	1056.00	.24	533.17	.01	36.00
	81.400	5000.00	34.33	12661.68	442.03	42.43	1056.00	.39	326.41	.01	36.00
*	82.000	648.00	34.01	9906.96	445.78	30.01	3168.00	.07	2415.07	.00	36.00
*	82.000	1080.00	34.02	9911.40	445.83	30.02	3168.00	.11	1457.47	.00	36.00
*	82.000	1800.00	34.04	9923.76	445.97	30.04	3168.00	.18	881.95	.01	36.00
*	82.000	3000.00	34.12	9957.86	446.35	30.12	3168.00	.30	536.09	.01	36.00
*	82.000	5000.00	34.33	10051.23	447.30	30.33	3168.00	.50	328.18	.02	36.00
	82.200	648.00	34.01	11176.84	362.82	44.11	1056.00	.06	2420.13	.00	36.00
	82.200	1080.00	34.02	11180.48	362.87	44.12	1056.00	.10	1460.51	.00	36.00
	82.200	1800.00	34.04	11190.61	363.00	44.14	1056.00	.16	883.77	.01	36.00
	82.200	3000.00	34.12	11218.59	363.37	44.22	1056.00	.27	537.18	.01	36.00
	82.200	5000.00	34.33	11295.18	364.38	44.43	1056.00	.44	328.84	.01	36.00
*	82.400	648.00	34.01	8655.15	391.75	38.11	1056.00	.07	2424.04	.00	36.00
*	82.400	1080.00	34.02	8659.11	391.79	38.12	1056.00	.12	1462.86	.00	36.00
*	82.400	1800.00	34.04	8670.15	391.91	38.14	1056.00	.21	885.18	.01	36.00
*	82.400	3000.00	34.12	8700.60	392.25	38.22	1056.00	.34	538.04	.01	36.00
*	82.400	5000.00	34.33	8783.93	393.17	38.43	1056.00	.57	329.36	.02	36.00
	82.600	648.00	34.01	10123.31	442.18	30.11	1056.00	.06	2428.63	.00	36.00
	82.600	1080.00	34.02	10127.80	442.22	30.12	1056.00	.11	1465.61	.00	36.00
	82.600	1800.00	34.04	10140.29	442.35	30.14	1056.00	.18	886.84	.01	36.00

82.600	3000.00	34.12	10174.76	442.68	30.22	1056.00	.29	539.03	.01	36.00
82.600	5000.00	34.34	10269.07	443.42	30.44	1056.00	.49	329.96	.02	36.00
82.700	648.00	34.01	10078.22	458.10	35.01	528.00	.06	2430.91	.00	36.00
82.700	1080.00	34.02	10082.93	458.14	35.02	528.00	.11	1466.98	.00	36.00
82.700	1800.00	34.04	10095.99	458.26	35.04	528.00	.18	887.66	.01	36.00
82.700	3000.00	34.12	10132.06	458.58	35.12	528.00	.30	539.53	.01	36.00
82.700	5000.00	34.34	10230.72	459.46	35.34	528.00	.49	330.26	.02	36.00
82.900	648.00	34.01	10738.62	436.62	33.91	1056.00	.06	2435.77	.00	36.00
82.900	1080.00	34.02	10743.13	436.67	33.92	1056.00	.10	1469.90	.00	36.00
82.900	1800.00	34.04	10755.67	436.80	33.94	1056.00	.17	889.41	.01	36.00
82.900	3000.00	34.12	10790.27	437.17	34.02	1056.00	.28	540.58	.01	36.00
82.900	5000.00	34.34	10884.93	438.18	34.24	1056.00	.46	330.90	.02	36.00
83.000	648.00	34.01	9925.03	480.63	35.11	528.00	.07	2438.02	.00	36.00
83.000	1080.00	34.02	9930.01	480.68	35.12	528.00	.11	1471.25	.00	36.00
83.000	1800.00	34.04	9943.86	480.81	35.14	528.00	.18	890.22	.01	36.00
83.000	3000.00	34.12	9982.10	481.18	35.22	528.00	.30	541.07	.01	36.00
83.000	5000.00	34.34	10086.67	482.31	35.44	528.00	.50	331.20	.02	36.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
*	83.200	648.00	34.01	12387.06	441.89	40.21	1056.00	.05	2443.62	.00	36.00
*	83.200	1080.00	34.02	12391.67	441.93	40.22	1056.00	.09	1474.61	.00	36.00
*	83.200	1800.00	34.05	12404.48	442.06	40.25	1056.00	.15	892.24	.00	36.00
*	83.200	3000.00	34.13	12439.83	442.40	40.33	1056.00	.24	542.29	.01	36.00
*	83.200	5000.00	34.34	12536.53	443.34	40.54	1056.00	.40	331.93	.01	36.00
	83.400	648.00	34.01	10779.77	392.75	60.11	1056.00	.06	2448.50	.00	36.00
	83.400	1080.00	34.02	10783.90	392.77	60.12	1056.00	.10	1477.54	.00	36.00
	83.400	1800.00	34.05	10795.38	392.85	60.15	1056.00	.17	894.00	.01	36.00
	83.400	3000.00	34.13	10827.06	393.04	60.23	1056.00	.28	543.34	.01	36.00
	83.400	5000.00	34.35	10913.63	393.58	60.45	1056.00	.46	332.57	.02	36.00
	83.800	648.00	34.01	10611.08	404.33	44.01	2112.00	.06	2458.11	.00	36.00
	83.800	1080.00	34.02	10615.36	404.38	44.02	2112.00	.10	1483.31	.00	36.00
	83.800	1800.00	34.05	10627.24	404.52	44.05	2112.00	.17	897.47	.01	36.00
	83.800	3000.00	34.13	10660.04	404.90	44.13	2112.00	.28	545.43	.01	36.00
	83.800	5000.00	34.35	10749.75	405.95	44.35	2112.00	.47	333.83	.02	36.00
	84.100	648.00	34.01	14471.14	542.68	42.91	1584.00	.04	2467.94	.00	36.00
	84.100	1080.00	34.02	14476.94	542.74	42.92	1584.00	.07	1489.21	.00	36.00
	84.100	1800.00	34.05	14493.02	542.91	42.95	1584.00	.12	901.01	.00	36.00
	84.100	3000.00	34.13	14537.44	543.36	43.03	1584.00	.21	547.56	.01	36.00
	84.100	5000.00	34.35	14658.86	544.58	43.25	1584.00	.34	335.12	.01	36.00
*	84.300	648.00	34.01	9070.11	436.87	29.81	1056.00	.07	2472.04	.00	36.00
*	84.300	1080.00	34.02	9074.81	436.90	29.82	1056.00	.12	1491.67	.00	36.00
*	84.300	1800.00	34.05	9087.84	437.00	29.85	1056.00	.20	902.49	.01	36.00

*	84.300	3000.00	34.13	9123.83	437.26	29.93	1056.00	.33	548.45	.01	36.00
*	84.300	5000.00	34.35	9222.15	437.97	30.15	1056.00	.54	335.66	.02	36.00
	84.400	648.00	34.01	10323.76	466.12	29.31	528.00	.06	2474.38	.00	36.00
	84.400	1080.00	34.02	10328.76	466.16	29.32	528.00	.10	1493.07	.00	36.00
	84.400	1800.00	34.05	10342.64	466.26	29.35	528.00	.17	903.33	.01	36.00
	84.400	3000.00	34.13	10380.96	466.54	29.43	528.00	.29	548.96	.01	36.00
	84.400	5000.00	34.35	10485.67	467.28	29.65	528.00	.48	335.97	.02	36.00
	84.600	648.00	34.01	10853.00	414.92	40.11	1056.00	.06	2479.29	.00	36.00
	84.600	1080.00	34.02	10857.50	414.95	40.12	1056.00	.10	1496.02	.00	36.00
	84.600	1800.00	34.05	10870.01	415.04	40.15	1056.00	.17	905.10	.01	36.00
	84.600	3000.00	34.13	10904.53	415.29	40.23	1056.00	.28	550.03	.01	36.00
	84.600	5000.00	34.36	10998.83	415.97	40.46	1056.00	.45	336.62	.02	36.00
	84.800	648.00	34.01	9143.34	450.98	33.31	1056.00	.07	2483.43	.00	36.00
	84.800	1080.00	34.02	9148.26	451.05	33.32	1056.00	.12	1498.51	.00	36.00
	84.800	1800.00	34.05	9161.91	451.26	33.35	1056.00	.20	906.60	.01	36.00
	84.800	3000.00	34.13	9199.62	451.84	33.43	1056.00	.33	550.93	.01	36.00
	84.800	5000.00	34.36	9302.77	453.41	33.66	1056.00	.54	337.16	.02	36.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	85.000	648.00	34.01	8401.04	457.32	29.71	1056.00	.08	2487.23	.00	36.00
	85.000	1080.00	34.02	8406.06	457.39	29.72	1056.00	.13	1500.79	.01	36.00
	85.000	1800.00	34.05	8419.98	457.56	29.75	1056.00	.21	907.97	.01	36.00
	85.000	3000.00	34.13	8458.42	457.98	29.83	1056.00	.35	551.75	.01	36.00
	85.000	5000.00	34.36	8563.42	458.89	30.06	1056.00	.58	337.66	.02	36.00
	85.200	648.00	34.01	8885.69	492.34	28.01	1056.00	.07	2491.25	.00	36.00
	85.200	1080.00	34.02	8891.16	492.46	28.02	1056.00	.12	1503.21	.01	36.00
	85.200	1800.00	34.05	8906.35	492.77	28.05	1056.00	.20	909.42	.01	36.00
	85.200	3000.00	34.13	8948.29	493.64	28.13	1056.00	.34	552.63	.01	36.00
	85.200	5000.00	34.37	9063.03	495.95	28.37	1056.00	.55	338.20	.02	36.00
*	85.500	648.00	34.01	18460.80	531.30	53.21	1584.00	.04	2503.79	.00	36.00
*	85.500	1080.00	34.02	18466.82	531.37	53.22	1584.00	.06	1510.73	.00	36.00
*	85.500	1800.00	34.05	18483.54	531.55	53.25	1584.00	.10	913.94	.00	36.00
*	85.500	3000.00	34.14	18529.68	532.07	53.34	1584.00	.16	555.35	.00	36.00
*	85.500	5000.00	34.37	18655.61	533.08	53.57	1584.00	.27	339.84	.01	36.00
*	86.800	648.00	34.01	9706.62	471.62	33.01	6864.00	.07	2532.35	.00	36.00
*	86.800	1080.00	34.02	9712.16	471.70	33.02	6864.00	.11	1527.88	.00	36.00
*	86.800	1800.00	34.05	9727.55	471.91	33.05	6864.00	.19	924.24	.01	36.00
*	86.800	3000.00	34.14	9770.01	472.49	33.14	6864.00	.31	561.56	.01	36.00
*	86.800	5000.00	34.38	9883.34	474.04	33.38	6864.00	.51	343.61	.02	36.00
	86.900	648.00	34.01	11240.08	418.91	45.91	528.00	.06	2534.89	.00	36.00
	86.900	1080.00	34.02	11244.87	418.96	45.92	528.00	.10	1529.40	.00	36.00
	86.900	1800.00	34.05	11258.17	419.08	45.95	528.00	.16	925.16	.01	36.00

	86.900	3000.00	34.14	11294.88	419.41	46.04	528.00	.27	562.11	.01	36.00
	86.900	5000.00	34.38	11395.07	420.31	46.28	528.00	.44	343.94	.01	36.00
	87.100	648.00	34.01	9994.89	414.91	33.81	1056.00	.06	2539.42	.00	36.00
	87.100	1080.00	34.02	9999.68	414.95	33.82	1056.00	.11	1532.12	.00	36.00
	87.100	1800.00	34.05	10012.99	415.06	33.85	1056.00	.18	926.79	.01	36.00
	87.100	3000.00	34.14	10049.68	415.38	33.94	1056.00	.30	563.09	.01	36.00
	87.100	5000.00	34.38	10149.82	416.22	34.18	1056.00	.49	344.54	.02	36.00
*	87.300	648.00	34.01	8199.56	441.03	27.91	1056.00	.08	2543.13	.00	36.00
*	87.300	1080.00	34.02	8204.66	441.07	27.92	1056.00	.13	1534.35	.01	36.00
*	87.300	1800.00	34.05	8218.83	441.18	27.95	1056.00	.22	928.13	.01	36.00
*	87.300	3000.00	34.14	8257.94	441.48	28.04	1056.00	.36	563.90	.01	36.00
*	87.300	5000.00	34.38	8364.64	442.31	28.28	1056.00	.60	345.03	.02	36.00
	87.600	648.00	34.01	8168.99	470.79	28.61	1584.00	.08	2548.68	.00	36.00
	87.600	1080.00	34.02	8174.51	470.81	28.62	1584.00	.13	1537.68	.01	36.00
	87.600	1800.00	34.05	8189.85	470.89	28.65	1584.00	.22	930.13	.01	36.00
	87.600	3000.00	34.14	8232.14	471.10	28.74	1584.00	.36	565.10	.02	36.00
	87.600	5000.00	34.39	8347.43	471.66	28.99	1584.00	.60	345.76	.03	36.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
*	87.800	648.00	34.01	10502.91	395.18	39.11	1056.00	.06	2553.43	.00	36.00
*	87.800	1080.00	34.02	10507.63	395.22	39.12	1056.00	.10	1540.53	.00	36.00
*	87.800	1800.00	34.05	10520.74	395.32	39.15	1056.00	.17	931.85	.01	36.00
*	87.800	3000.00	34.14	10556.89	395.59	39.24	1056.00	.28	566.14	.01	36.00
*	87.800	5000.00	34.39	10655.42	396.35	39.49	1056.00	.47	346.39	.02	36.00
	88.700	648.00	34.01	9660.52	405.23	36.01	4752.00	.07	2573.11	.00	36.00
	88.700	1080.00	34.02	9665.56	405.30	36.02	4752.00	.11	1552.34	.00	36.00
	88.700	1800.00	34.05	9679.55	405.50	36.05	4752.00	.19	938.95	.01	36.00
	88.700	3000.00	34.15	9718.16	406.04	36.15	4752.00	.31	570.41	.01	36.00
	88.700	5000.00	34.40	9823.36	407.52	36.40	4752.00	.51	348.98	.02	36.00
	88.900	648.00	34.01	9710.85	419.54	31.81	1056.00	.07	2577.51	.00	36.00
	88.900	1080.00	34.02	9716.01	419.58	31.82	1056.00	.11	1554.98	.00	36.00
	88.900	1800.00	34.05	9730.34	419.67	31.85	1056.00	.18	940.53	.01	36.00
	88.900	3000.00	34.15	9769.85	419.93	31.95	1056.00	.31	571.37	.01	36.00
	88.900	5000.00	34.40	9877.44	420.63	32.20	1056.00	.51	349.56	.02	36.00
	89.100	648.00	34.01	9016.86	415.89	29.01	1056.00	.07	2581.59	.00	36.00
	89.100	1080.00	34.02	9022.01	415.97	29.02	1056.00	.12	1557.43	.00	36.00
	89.100	1800.00	34.05	9036.33	416.19	29.05	1056.00	.20	942.00	.01	36.00
	89.100	3000.00	34.15	9075.79	416.79	29.15	1056.00	.33	572.26	.01	36.00
	89.100	5000.00	34.41	9183.44	418.42	29.41	1056.00	.54	350.10	.02	36.00
	89.300	648.00	34.01	9679.96	398.19	35.11	1056.00	.07	2585.97	.00	36.00
	89.300	1080.00	34.02	9684.93	398.27	35.12	1056.00	.11	1560.06	.00	36.00
	89.300	1800.00	34.05	9698.72	398.46	35.15	1056.00	.19	943.58	.01	36.00

89.300	3000.00	34.15	9736.75	399.01	35.25	1056.00	.31	573.21	.01	36.00
89.300	5000.00	34.41	9840.46	400.49	35.51	1056.00	.51	350.68	.02	36.00
89.500	648.00	34.01	9756.79	376.33	36.11	1056.00	.07	2590.39	.00	36.00
89.500	1080.00	34.02	9761.52	376.38	36.12	1056.00	.11	1562.72	.00	36.00
89.500	1800.00	34.05	9774.66	376.50	36.15	1056.00	.18	945.18	.01	36.00
89.500	3000.00	34.15	9810.88	376.83	36.25	1056.00	.31	574.17	.01	36.00
89.500	5000.00	34.41	9909.53	377.73	36.51	1056.00	.50	351.26	.02	36.00
89.700	648.00	34.01	10698.57	391.62	37.11	1056.00	.06	2595.23	.00	36.00
89.700	1080.00	34.02	10703.51	391.68	37.12	1056.00	.10	1565.62	.00	36.00
89.700	1800.00	34.05	10717.25	391.86	37.15	1056.00	.17	946.92	.01	36.00
89.700	3000.00	34.15	10755.11	392.36	37.25	1056.00	.28	575.22	.01	36.00
89.700	5000.00	34.41	10858.33	393.72	37.51	1056.00	.46	351.89	.02	36.00
89.800	648.00	34.01	10229.08	397.32	38.11	528.00	.06	2597.54	.00	36.00
89.800	1080.00	34.02	10234.12	397.37	38.12	528.00	.11	1567.01	.00	36.00
89.800	1800.00	34.05	10248.08	397.50	38.15	528.00	.18	947.76	.01	36.00
89.800	3000.00	34.15	10286.61	397.87	38.25	528.00	.29	575.72	.01	36.00
89.800	5000.00	34.42	10391.56	398.87	38.52	528.00	.48	352.20	.02	36.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
90.000	648.00	34.01	9768.74	424.13	29.01	1056.00	.07	2601.97	.00	36.00
90.000	1080.00	34.02	9774.14	424.15	29.02	1056.00	.11	1569.67	.00	36.00
90.000	1800.00	34.06	9789.11	424.19	29.06	1056.00	.18	949.35	.01	36.00
90.000	3000.00	34.15	9830.37	424.31	29.15	1056.00	.31	576.68	.01	36.00
90.000	5000.00	34.42	9942.60	424.64	29.42	1056.00	.50	352.78	.02	36.00
90.100	648.00	34.01	9839.43	429.81	31.11	528.00	.07	2604.19	.00	35.00
90.100	1080.00	34.02	9844.91	429.87	31.12	528.00	.11	1571.00	.00	35.00
90.100	1800.00	34.06	9860.13	430.05	31.16	528.00	.18	950.16	.01	35.00
90.100	3000.00	34.15	9902.10	430.52	31.25	528.00	.30	577.17	.01	35.00
90.100	5000.00	34.42	10016.43	431.82	31.52	528.00	.50	353.08	.02	35.00
90.300	648.00	34.01	10532.60	411.73	37.21	1056.00	.06	2608.96	.00	35.00
90.300	1080.00	34.02	10537.88	411.80	37.22	1056.00	.10	1573.87	.00	35.00
90.300	1800.00	34.06	10552.55	411.97	37.26	1056.00	.17	951.88	.01	35.00
90.300	3000.00	34.15	10593.00	412.44	37.35	1056.00	.28	578.20	.01	35.00
90.300	5000.00	34.42	10703.18	413.72	37.62	1056.00	.47	353.70	.02	35.00
90.500	648.00	34.01	10260.26	410.58	35.91	1056.00	.06	2613.61	.00	35.00
90.500	1080.00	34.02	10265.55	410.69	35.92	1056.00	.11	1576.65	.00	35.00
90.500	1800.00	34.06	10280.27	410.98	35.96	1056.00	.18	953.55	.01	35.00
90.500	3000.00	34.15	10320.85	411.80	36.05	1056.00	.29	579.21	.01	35.00
90.500	5000.00	34.42	10431.55	414.03	36.32	1056.00	.48	354.32	.02	35.00
90.700	648.00	34.01	8952.77	383.45	35.11	1056.00	.07	2617.66	.00	35.00
90.700	1080.00	34.02	8957.74	383.50	35.12	1056.00	.12	1579.09	.00	35.00
90.700	1800.00	34.06	8971.52	383.63	35.16	1056.00	.20	955.01	.01	35.00

	90.700	3000.00	34.16	9009.52	384.00	35.26	1056.00	.33	580.09	.01	35.00
	90.700	5000.00	34.42	9112.97	385.00	35.52	1056.00	.55	354.85	.02	35.00
	90.900	648.00	34.01	10757.34	388.39	38.11	1056.00	.06	2622.53	.00	35.00
	90.900	1080.00	34.02	10762.39	388.50	38.12	1056.00	.10	1582.01	.00	35.00
	90.900	1800.00	34.06	10776.42	388.79	38.16	1056.00	.17	956.77	.01	35.00
	90.900	3000.00	34.16	10815.14	389.59	38.26	1056.00	.28	581.15	.01	35.00
	90.900	5000.00	34.43	10920.72	391.76	38.53	1056.00	.46	355.49	.02	35.00
*	91.100	648.00	34.01	8719.26	438.19	30.21	1056.00	.07	2626.48	.00	35.00
*	91.100	1080.00	34.02	8725.00	438.25	30.22	1056.00	.12	1584.38	.00	35.00
*	91.100	1800.00	34.06	8740.96	438.44	30.26	1056.00	.21	958.19	.01	35.00
*	91.100	3000.00	34.16	8784.95	438.94	30.36	1056.00	.34	582.01	.01	35.00
*	91.100	5000.00	34.43	8904.69	440.30	30.63	1056.00	.56	356.01	.02	35.00
	91.300	648.00	34.01	9544.54	346.81	38.51	1056.00	.07	2630.80	.00	35.00
	91.300	1080.00	34.02	9549.10	346.83	38.52	1056.00	.11	1586.97	.00	35.00
	91.300	1800.00	34.06	9561.76	346.88	38.56	1056.00	.19	959.75	.01	35.00
	91.300	3000.00	34.16	9596.67	347.04	38.66	1056.00	.31	582.95	.01	35.00
	91.300	5000.00	34.43	9691.57	347.46	38.93	1056.00	.52	356.58	.02	35.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	91.500	648.00	34.01	9790.21	414.61	35.11	1056.00	.07	2635.23	.00	35.00
	91.500	1080.00	34.02	9795.71	414.69	35.12	1056.00	.11	1589.63	.00	35.00
	91.500	1800.00	34.06	9810.99	414.90	35.16	1056.00	.18	961.35	.01	35.00
	91.500	3000.00	34.16	9853.12	415.47	35.26	1056.00	.30	583.91	.01	35.00
	91.500	5000.00	34.43	9967.82	417.02	35.53	1056.00	.50	357.17	.02	35.00
	91.700	648.00	34.01	10163.22	401.10	39.91	1056.00	.06	2639.83	.00	35.00
	91.700	1080.00	34.02	10168.56	401.13	39.92	1056.00	.11	1592.40	.00	35.00
	91.700	1800.00	34.06	10183.40	401.22	39.96	1056.00	.18	963.01	.01	35.00
	91.700	3000.00	34.16	10224.28	401.46	40.06	1056.00	.29	584.91	.01	35.00
	91.700	5000.00	34.44	10335.43	402.12	40.34	1056.00	.48	357.77	.02	35.00
	91.900	648.00	34.01	10939.07	395.46	40.11	1056.00	.06	2644.78	.00	35.00
	91.900	1080.00	34.02	10944.37	395.54	40.12	1056.00	.10	1595.37	.00	35.00
	91.900	1800.00	34.06	10959.08	395.76	40.16	1056.00	.16	964.80	.01	35.00
	91.900	3000.00	34.16	10999.64	396.37	40.26	1056.00	.27	585.99	.01	35.00
	91.900	5000.00	34.44	11110.09	398.02	40.54	1056.00	.45	358.43	.02	35.00
*	92.300	648.00	34.01	8747.95	427.84	28.91	2112.00	.07	2652.70	.00	35.00
*	92.300	1080.00	34.02	8753.73	427.93	28.92	2112.00	.12	1600.12	.00	35.00
*	92.300	1800.00	34.06	8769.77	428.19	28.96	2112.00	.21	967.66	.01	35.00
*	92.300	3000.00	34.16	8814.01	428.90	29.06	2112.00	.34	587.71	.01	35.00
*	92.300	5000.00	34.44	8934.49	430.81	29.34	2112.00	.56	359.47	.02	35.00
	92.500	648.00	34.01	9332.30	418.18	30.91	1056.00	.07	2656.92	.00	35.00
	92.500	1080.00	34.02	9337.97	418.32	30.92	1056.00	.12	1602.66	.00	35.00
	92.500	1800.00	34.06	9353.74	418.72	30.96	1056.00	.19	969.18	.01	35.00

	92.500	3000.00	34.16	9397.23	419.83	31.06	1056.00	.32	588.63	.01	35.00
	92.500	5000.00	34.45	9515.61	420.63	31.35	1056.00	.53	360.03	.02	35.00
*	92.700	648.00	34.01	12706.41	404.12	60.91	1056.00	.05	2662.68	.00	35.00
*	92.700	1080.00	34.02	12711.95	404.18	60.92	1056.00	.08	1606.11	.00	35.00
*	92.700	1800.00	34.06	12727.32	404.37	60.96	1056.00	.14	971.25	.00	35.00
*	92.700	3000.00	34.16	12769.69	404.89	61.06	1056.00	.23	589.88	.01	35.00
*	92.700	5000.00	34.45	12885.02	407.19	61.35	1056.00	.39	360.79	.01	35.00
*	92.900	648.00	34.01	28812.63	813.23	66.61	1056.00	.02	2675.72	.00	35.00
*	92.900	1080.00	34.02	28823.83	813.54	66.62	1056.00	.04	1613.94	.00	35.00
*	92.900	1800.00	34.06	28854.95	814.41	66.66	1056.00	.06	975.96	.00	35.00
*	92.900	3000.00	34.17	28940.83	816.80	66.77	1056.00	.10	592.71	.00	35.00
*	92.900	5000.00	34.45	29175.13	823.28	67.05	1056.00	.17	362.50	.01	35.00
*	93.100	648.00	34.01	8874.12	446.64	34.11	1056.00	.07	2679.74	.00	35.00
*	93.100	1080.00	34.02	8880.29	446.73	34.12	1056.00	.12	1616.35	.00	35.00
*	93.100	1800.00	34.06	8897.42	446.98	34.16	1056.00	.20	977.41	.01	35.00
*	93.100	3000.00	34.16	8944.63	447.65	34.26	1056.00	.34	593.58	.01	35.00
*	93.100	5000.00	34.45	9073.14	449.48	34.55	1056.00	.55	363.03	.02	35.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	93.500	648.00	34.01	7790.83	452.59	28.31	2112.00	.08	2686.79	.00	35.00
	93.500	1080.00	34.02	7797.09	452.68	28.32	2112.00	.14	1620.59	.01	35.00
	93.500	1800.00	34.06	7814.46	452.94	28.36	2112.00	.23	979.95	.01	35.00
	93.500	3000.00	34.17	7862.35	453.66	28.47	2112.00	.38	595.12	.02	35.00
	93.500	5000.00	34.46	7992.69	455.61	28.76	2112.00	.63	363.97	.03	35.00
*	93.700	648.00	34.01	12472.83	520.50	40.31	1056.00	.05	2692.44	.00	35.00
*	93.700	1080.00	34.02	12480.16	520.63	40.32	1056.00	.09	1623.98	.00	35.00
*	93.700	1800.00	34.06	12500.50	521.00	40.36	1056.00	.14	981.99	.01	35.00
*	93.700	3000.00	34.17	12556.60	522.01	40.47	1056.00	.24	596.35	.01	35.00
*	93.700	5000.00	34.46	12709.26	524.76	40.76	1056.00	.39	364.71	.01	35.00
	93.900	648.00	34.01	13379.76	437.23	55.11	1056.00	.05	2698.49	.00	35.00
	93.900	1080.00	34.02	13386.00	437.32	55.12	1056.00	.08	1627.61	.00	35.00
	93.900	1800.00	34.06	13403.29	437.57	55.16	1056.00	.13	984.17	.00	35.00
	93.900	3000.00	34.17	13450.95	438.25	55.27	1056.00	.22	597.66	.01	35.00
	93.900	5000.00	34.46	13580.53	440.10	55.56	1056.00	.37	365.51	.01	35.00
*	94.100	648.00	34.01	9665.63	473.13	27.21	1056.00	.07	2702.87	.00	35.00
*	94.100	1080.00	34.02	9672.36	473.19	27.22	1056.00	.11	1630.24	.00	35.00
*	94.100	1800.00	34.06	9691.04	473.34	27.26	1056.00	.19	985.75	.01	35.00
*	94.100	3000.00	34.17	9742.50	473.78	27.37	1056.00	.31	598.61	.01	35.00
*	94.100	5000.00	34.46	9882.24	474.95	27.66	1056.00	.51	366.09	.02	35.00
	94.200	648.00	34.01	9135.95	419.50	33.01	528.00	.07	2704.94	.00	35.00
	94.200	1080.00	34.02	9141.92	419.58	33.02	528.00	.12	1631.48	.00	35.00
	94.200	1800.00	34.06	9158.48	419.81	33.06	528.00	.20	986.50	.01	35.00

	94.200	3000.00	34.17	9204.12	420.44	33.17	528.00	.33	599.06	.01	35.00
	94.200	5000.00	34.47	9328.20	422.14	33.47	528.00	.54	366.36	.02	35.00
	94.300	648.00	34.01	8634.12	412.92	33.81	528.00	.08	2706.89	.00	35.00
	94.300	1080.00	34.02	8640.01	413.05	33.82	528.00	.12	1632.66	.00	35.00
	94.300	1800.00	34.06	8656.37	413.40	33.86	528.00	.21	987.21	.01	35.00
	94.300	3000.00	34.17	8701.48	414.38	33.97	528.00	.34	599.49	.01	35.00
	94.300	5000.00	34.47	8824.30	417.04	34.27	528.00	.57	366.62	.02	35.00
*	94.500	648.00	34.01	10721.96	404.62	39.01	1056.00	.06	2711.74	.00	35.00
*	94.500	1080.00	34.02	10727.78	404.67	39.02	1056.00	.10	1635.57	.00	35.00
*	94.500	1800.00	34.06	10743.89	404.82	39.06	1056.00	.17	988.96	.01	35.00
*	94.500	3000.00	34.17	10788.31	405.24	39.17	1056.00	.28	600.55	.01	35.00
*	94.500	5000.00	34.47	10908.92	406.37	39.47	1056.00	.46	367.26	.02	35.00
*	94.700	648.00	34.01	8714.64	417.44	30.91	1056.00	.07	2715.69	.00	35.00
*	94.700	1080.00	34.02	8720.69	417.53	30.92	1056.00	.12	1637.94	.00	35.00
*	94.700	1800.00	34.06	8737.44	417.77	30.96	1056.00	.21	990.38	.01	35.00
	94.700	3000.00	34.17	8783.66	418.66	31.07	1056.00	.34	601.40	.01	35.00
	94.700	5000.00	34.47	8909.42	421.36	31.37	1056.00	.56	367.79	.02	35.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	94.900	648.00	34.01	9358.84	401.78	38.11	1056.00	.07	2719.93	.00	35.00
	94.900	1080.00	34.02	9364.66	401.83	38.12	1056.00	.12	1640.48	.00	35.00
	94.900	1800.00	34.06	9380.83	401.98	38.16	1056.00	.19	991.91	.01	35.00
	94.900	3000.00	34.17	9425.37	402.39	38.27	1056.00	.32	602.33	.01	35.00
	94.900	5000.00	34.47	9546.28	403.51	38.57	1056.00	.52	368.35	.02	35.00
*	95.100	648.00	34.01	14401.94	382.57	58.01	1056.00	.04	2726.44	.00	35.00
*	95.100	1080.00	34.02	14407.55	382.63	58.02	1056.00	.07	1644.40	.00	35.00
*	95.100	1800.00	34.06	14423.07	382.83	58.06	1056.00	.12	994.26	.00	35.00
*	95.100	3000.00	34.18	14465.85	383.35	58.18	1056.00	.21	603.74	.01	35.00
*	95.100	5000.00	34.48	14582.04	384.78	58.48	1056.00	.34	369.20	.01	35.00
*	95.300	648.00	34.01	9288.69	324.23	43.01	1056.00	.07	2730.65	.00	35.00
*	95.300	1080.00	34.02	9293.46	324.29	43.02	1056.00	.12	1646.92	.00	35.00
*	95.300	1800.00	34.06	9306.68	324.45	43.06	1056.00	.19	995.78	.01	35.00
*	95.300	3000.00	34.18	9343.12	324.89	43.18	1056.00	.32	604.65	.01	35.00
*	95.300	5000.00	34.48	9442.09	326.10	43.48	1056.00	.53	369.76	.02	35.00
	95.500	648.00	34.01	10255.15	389.12	35.01	1056.00	.06	2735.29	.00	35.00
	95.500	1080.00	34.02	10260.86	389.17	35.02	1056.00	.11	1649.71	.00	35.00
	95.500	1800.00	34.06	10276.70	389.28	35.06	1056.00	.18	997.45	.01	35.00
	95.500	3000.00	34.18	10320.31	389.60	35.18	1056.00	.29	605.66	.01	35.00
	95.500	5000.00	34.48	10438.65	390.46	35.48	1056.00	.48	370.37	.02	35.00
	95.700	648.00	34.01	8811.22	401.70	34.01	1056.00	.07	2739.28	.00	35.00
	95.700	1080.00	34.02	8817.16	401.77	34.02	1056.00	.12	1652.10	.00	35.00
	95.700	1800.00	34.06	8833.63	401.97	34.06	1056.00	.20	998.89	.01	35.00

	95.700	3000.00	34.18	8879.00	402.51	34.18	1056.00	.34	606.53	.01	35.00
	95.700	5000.00	34.48	9002.20	403.99	34.48	1056.00	.56	370.90	.02	35.00
*	95.900	648.00	34.01	12931.58	436.52	45.11	1056.00	.05	2745.13	.00	35.00
*	95.900	1080.00	34.02	12938.05	436.58	45.12	1056.00	.08	1655.62	.00	35.00
*	95.900	1800.00	34.06	12956.01	436.74	45.16	1056.00	.14	1001.00	.00	35.00
*	95.900	3000.00	34.18	13005.49	437.21	45.28	1056.00	.23	607.80	.01	35.00
*	95.900	5000.00	34.49	13139.77	438.45	45.59	1056.00	.38	371.67	.01	35.00
*	96.000	648.00	34.01	9645.46	445.34	37.01	528.00	.07	2747.32	.00	35.00
*	96.000	1080.00	34.02	9652.11	445.42	37.02	528.00	.11	1656.93	.00	35.00
*	96.000	1800.00	34.06	9670.55	445.62	37.06	528.00	.19	1001.79	.01	35.00
*	96.000	3000.00	34.18	9721.35	446.18	37.18	528.00	.31	608.28	.01	35.00
*	96.000	5000.00	34.49	9859.26	447.70	37.49	528.00	.51	371.96	.02	35.00
	96.200	648.00	34.01	10325.42	430.91	36.11	1056.00	.06	2751.99	.00	35.00
	96.200	1080.00	34.02	10331.86	431.09	36.12	1056.00	.10	1659.73	.00	35.00
	96.200	1800.00	34.06	10349.72	431.59	36.16	1056.00	.17	1003.48	.01	35.00
	96.200	3000.00	34.18	10399.00	432.96	36.28	1056.00	.29	609.29	.01	35.00
	96.200	5000.00	34.49	10533.24	436.68	36.59	1056.00	.47	372.57	.02	35.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
96.600	648.00	34.01	9090.94	426.09	32.71	2112.00	.07	2760.22	.00	35.00
96.600	1080.00	34.02	9097.38	426.18	32.72	2112.00	.12	1664.67	.00	35.00
96.600	1800.00	34.07	9115.25	426.44	32.77	2112.00	.20	1006.45	.01	35.00
96.600	3000.00	34.18	9164.45	427.14	32.88	2112.00	.33	611.09	.01	35.00
96.600	5000.00	34.49	9298.09	429.06	33.19	2112.00	.54	373.67	.02	35.00
96.800	648.00	34.01	8497.17	447.49	32.01	1056.00	.08	2764.07	.00	35.00
96.800	1080.00	34.02	8503.96	447.58	32.02	1056.00	.13	1666.98	.01	35.00
96.800	1800.00	34.07	8522.79	447.82	32.07	1056.00	.21	1007.84	.01	35.00
96.800	3000.00	34.18	8574.67	448.50	32.18	1056.00	.35	611.93	.01	35.00
96.800	5000.00	34.50	8715.52	450.34	32.50	1056.00	.57	374.18	.02	35.00
97.100	648.00	34.01	9148.75	417.36	33.21	1584.00	.07	2770.28	.00	35.00
97.100	1080.00	34.02	9155.15	417.42	33.22	1584.00	.12	1670.71	.00	35.00
97.100	1800.00	34.07	9172.92	417.58	33.27	1584.00	.20	1010.08	.01	35.00
97.100	3000.00	34.18	9221.83	418.02	33.38	1584.00	.33	613.28	.01	35.00
97.100	5000.00	34.50	9354.43	419.21	33.70	1584.00	.53	375.00	.02	35.00
97.300	648.00	34.01	10580.80	426.72	39.91	1056.00	.06	2775.07	.00	35.00
97.300	1080.00	34.02	10587.40	426.78	39.92	1056.00	.10	1673.59	.00	35.00
97.300	1800.00	34.07	10605.71	426.94	39.97	1056.00	.17	1011.81	.01	35.00
97.300	3000.00	34.19	10656.10	427.37	40.09	1056.00	.28	614.32	.01	35.00
97.300	5000.00	34.50	10792.68	428.55	40.40	1056.00	.46	375.63	.02	35.00
97.500	648.00	34.01	9071.75	301.86	43.01	1056.00	.07	2779.18	.00	35.00
97.500	1080.00	34.02	9076.44	301.90	43.02	1056.00	.12	1676.05	.00	35.00
97.500	1800.00	34.07	9089.46	302.03	43.07	1056.00	.20	1013.29	.01	35.00

	97.500	3000.00	34.19	9125.29	302.39	43.19	1056.00	.33	615.21	.01	35.00
	97.500	5000.00	34.51	9222.38	303.35	43.51	1056.00	.54	376.17	.02	35.00
*	97.700	648.00	34.01	7852.92	474.63	27.61	1056.00	.08	2782.73	.00	35.00
*	97.700	1080.00	34.02	7860.31	474.74	27.62	1056.00	.14	1678.19	.01	35.00
*	97.700	1800.00	34.07	7880.80	475.05	27.67	1056.00	.23	1014.57	.01	35.00
*	97.700	3000.00	34.19	7937.26	476.27	27.79	1056.00	.38	615.99	.02	35.00
*	97.700	5000.00	34.51	8090.78	479.96	28.11	1056.00	.62	376.65	.03	35.00
*	97.900	648.00	34.01	10316.68	439.49	34.11	1056.00	.06	2787.40	.00	35.00
*	97.900	1080.00	34.02	10323.57	439.58	34.12	1056.00	.10	1680.99	.00	35.00
*	97.900	1800.00	34.07	10342.70	439.82	34.17	1056.00	.17	1016.26	.01	35.00
*	97.900	3000.00	34.19	10395.36	440.50	34.29	1056.00	.29	617.00	.01	35.00
*	97.900	5000.00	34.51	10538.19	442.32	34.61	1056.00	.47	377.27	.02	35.00
	98.100	648.00	34.01	8823.74	480.10	28.01	1056.00	.07	2791.40	.00	35.00
	98.100	1080.00	34.02	8831.35	480.19	28.02	1056.00	.12	1683.39	.01	35.00
	98.100	1800.00	34.07	8852.49	480.43	28.07	1056.00	.20	1017.70	.01	35.00
	98.100	3000.00	34.19	8910.66	481.09	28.19	1056.00	.34	617.88	.01	35.00
	98.100	5000.00	34.52	9068.32	482.89	28.52	1056.00	.55	377.80	.02	35.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
98.300	648.00	34.01	9915.28	381.89	43.01	1056.00	.07	2795.88	.00	35.00
98.300	1080.00	34.02	9921.35	382.01	43.02	1056.00	.11	1686.09	.00	35.00
98.300	1800.00	34.07	9938.20	382.33	43.07	1056.00	.18	1019.32	.01	35.00
98.300	3000.00	34.19	9984.60	383.21	43.19	1056.00	.30	618.85	.01	35.00
98.300	5000.00	34.52	10110.56	385.58	43.52	1056.00	.49	378.39	.02	35.00
98.700	648.00	34.01	10133.79	438.87	27.81	2112.00	.06	2805.06	.00	35.00
98.700	1080.00	34.03	10140.85	438.91	27.83	2112.00	.11	1691.60	.00	35.00
98.700	1800.00	34.07	10160.46	439.04	27.87	2112.00	.18	1022.63	.01	35.00
98.700	3000.00	34.19	10214.37	439.37	27.99	2112.00	.29	620.85	.01	35.00
98.700	5000.00	34.52	10360.22	440.27	28.32	2112.00	.48	379.61	.02	35.00
98.800	648.00	34.01	9539.44	391.46	36.31	528.00	.07	2807.22	.00	35.00
98.800	1080.00	34.03	9545.73	391.54	36.33	528.00	.11	1692.89	.00	35.00
98.800	1800.00	34.07	9563.20	391.77	36.37	528.00	.19	1023.41	.01	35.00
98.800	3000.00	34.19	9611.29	392.38	36.49	528.00	.31	621.32	.01	35.00
98.800	5000.00	34.52	9741.62	394.04	36.82	528.00	.51	379.89	.02	35.00
99.000	648.00	34.01	9705.03	351.66	40.11	1056.00	.07	2811.61	.00	35.00
99.000	1080.00	34.03	9710.71	351.73	40.13	1056.00	.11	1695.53	.00	35.00
99.000	1800.00	34.07	9726.46	351.93	40.17	1056.00	.19	1025.00	.01	35.00
99.000	3000.00	34.19	9769.82	352.46	40.29	1056.00	.31	622.27	.01	35.00
99.000	5000.00	34.53	9887.31	353.90	40.63	1056.00	.51	380.47	.02	35.00
99.200	648.00	34.01	8142.33	385.29	29.01	1056.00	.08	2815.30	.00	35.00
99.200	1080.00	34.03	8148.57	385.36	29.03	1056.00	.13	1697.74	.01	35.00
99.200	1800.00	34.07	8165.90	385.54	29.07	1056.00	.22	1026.33	.01	35.00

99.200	3000.00	34.19	8213.58	386.04	29.19	1056.00	.37	623.08	.01	35.00
99.200	5000.00	34.53	8342.72	387.37	29.53	1056.00	.60	380.96	.02	35.00
99.400	648.00	34.01	9284.46	420.87	31.01	1056.00	.07	2819.50	.00	35.00
99.400	1080.00	34.03	9291.31	420.97	31.03	1056.00	.12	1700.27	.00	35.00
99.400	1800.00	34.07	9310.32	421.25	31.07	1056.00	.19	1027.84	.01	35.00
99.400	3000.00	34.20	9362.64	422.02	31.20	1056.00	.32	623.99	.01	35.00
99.400	5000.00	34.53	9504.29	422.98	31.53	1056.00	.53	381.52	.02	35.00
99.600	648.00	34.01	10420.29	399.98	44.01	1056.00	.06	2824.22	.00	35.00
99.600	1080.00	34.03	10426.86	400.07	44.03	1056.00	.10	1703.10	.00	35.00
99.600	1800.00	34.07	10445.10	400.32	44.07	1056.00	.17	1029.55	.01	35.00
99.600	3000.00	34.20	10495.29	401.03	44.20	1056.00	.29	625.02	.01	35.00
99.600	5000.00	34.53	10631.27	402.93	44.53	1056.00	.47	382.14	.02	35.00
99.800	648.00	34.01	10404.03	424.40	35.11	1056.00	.06	2828.93	.00	35.00
99.800	1080.00	34.03	10411.03	424.46	35.13	1056.00	.10	1705.93	.00	35.00
99.800	1800.00	34.07	10430.46	424.62	35.17	1056.00	.17	1031.25	.01	35.00
99.800	3000.00	34.20	10483.88	425.06	35.30	1056.00	.29	626.04	.01	35.00
99.800	5000.00	34.54	10628.43	426.25	35.64	1056.00	.47	382.77	.02	35.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
100.000	648.00	34.01	9632.53	418.80	35.31	1056.00	.07	2833.29	.00	35.00
100.000	1080.00	34.03	9639.46	418.84	35.33	1056.00	.11	1708.54	.00	35.00
100.000	1800.00	34.07	9658.68	418.95	35.37	1056.00	.19	1032.82	.01	35.00
100.000	3000.00	34.20	9711.52	419.26	35.50	1056.00	.31	626.99	.01	35.00
100.000	5000.00	34.54	9854.41	420.08	35.84	1056.00	.51	383.35	.02	35.00
100.200	648.00	34.01	9490.92	475.62	28.01	1056.00	.07	2837.58	.00	35.00
100.200	1080.00	34.03	9498.81	475.65	28.03	1056.00	.11	1711.12	.00	35.00
100.200	1800.00	34.07	9520.72	475.75	28.07	1056.00	.19	1034.37	.01	35.00
100.200	3000.00	34.20	9580.94	476.00	28.20	1056.00	.31	627.93	.01	35.00
100.200	5000.00	34.54	9743.71	476.69	28.54	1056.00	.51	383.92	.02	35.00
100.400	648.00	34.01	10261.26	405.72	32.91	1056.00	.06	2842.23	.00	35.00
100.400	1080.00	34.03	10268.03	405.78	32.93	1056.00	.11	1713.91	.00	35.00
100.400	1800.00	34.07	10286.83	405.95	32.97	1056.00	.17	1036.05	.01	35.00
100.400	3000.00	34.20	10338.53	406.42	33.10	1056.00	.29	628.94	.01	35.00
100.400	5000.00	34.54	10478.37	407.70	33.44	1056.00	.48	384.53	.02	35.00
100.600	648.00	34.01	9628.41	420.85	34.21	1056.00	.07	2846.59	.00	35.00
100.600	1080.00	34.03	9635.48	420.94	34.23	1056.00	.11	1716.53	.00	35.00
100.600	1800.00	34.07	9655.08	421.21	34.27	1056.00	.19	1037.62	.01	35.00
100.600	3000.00	34.20	9709.00	421.94	34.40	1056.00	.31	629.89	.01	35.00
100.600	5000.00	34.55	9854.98	423.91	34.75	1056.00	.51	385.11	.02	35.00
100.910	648.00	34.01	10562.65	429.52	38.01	1636.00	.06	2853.99	.00	35.00
100.910	1080.00	34.03	10569.90	429.68	38.03	1636.00	.10	1720.98	.00	35.00
100.910	1800.00	34.07	10590.01	430.11	38.07	1636.00	.17	1040.29	.01	35.00

100.910	3000.00	34.20	10645.36	431.30	38.20	1636.00	.28	631.50	.01	35.00
100.910	5000.00	34.55	10795.52	434.51	38.55	1636.00	.46	386.09	.02	35.00
101.100	648.00	34.01	9573.97	443.95	35.01	1003.00	.07	2858.11	.00	35.00
101.100	1080.00	34.03	9581.50	444.20	35.03	1003.00	.11	1723.45	.00	35.00
101.100	1800.00	34.07	9602.39	444.87	35.07	1003.00	.19	1041.78	.01	35.00
101.100	3000.00	34.20	9659.97	446.71	35.20	1003.00	.31	632.40	.01	35.00
101.100	5000.00	34.55	9816.02	448.89	35.55	1003.00	.51	386.64	.02	35.00
101.290	648.00	34.01	10485.20	423.01	40.11	1003.00	.06	2862.62	.00	35.00
101.290	1080.00	34.03	10492.40	423.14	40.13	1003.00	.10	1726.16	.00	35.00
101.290	1800.00	34.07	10512.36	423.50	40.17	1003.00	.17	1043.41	.01	35.00
101.290	3000.00	34.20	10567.28	424.48	40.30	1003.00	.28	633.38	.01	35.00
101.290	5000.00	34.55	10716.10	427.12	40.65	1003.00	.47	387.24	.02	35.00
101.650	648.00	34.01	9794.21	398.11	33.81	1900.00	.07	2870.60	.00	35.00
101.650	1080.00	34.03	9801.04	398.21	33.83	1900.00	.11	1730.95	.00	35.00
101.650	1800.00	34.07	9819.98	398.50	33.87	1900.00	.18	1046.29	.01	35.00
101.650	3000.00	34.20	9872.09	399.28	34.00	1900.00	.30	635.12	.01	35.00
101.650	5000.00	34.56	10013.15	401.37	34.36	1900.00	.50	388.29	.02	35.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	102.060	648.00	34.01	8199.64	386.37	34.81	2164.00	.08	2878.20	.00	35.00
	102.060	1080.00	34.03	8206.31	386.46	34.83	2164.00	.13	1735.51	.01	35.00
	102.060	1800.00	34.07	8224.80	386.69	34.87	2164.00	.22	1049.03	.01	35.00
	102.060	3000.00	34.21	8275.65	387.35	35.01	2164.00	.36	636.78	.01	35.00
	102.060	5000.00	34.56	8413.22	389.12	35.36	2164.00	.59	389.30	.02	35.00
*	102.450	648.00	34.01	17575.63	452.33	62.01	2059.00	.04	2893.72	.00	35.00
*	102.450	1080.00	34.03	17583.52	452.48	62.03	2059.00	.06	1744.82	.00	35.00
*	102.450	1800.00	34.08	17605.41	452.90	62.08	2059.00	.10	1054.63	.00	35.00
*	102.450	3000.00	34.21	17665.63	454.05	62.21	2059.00	.17	640.14	.00	35.00
*	102.450	5000.00	34.57	17828.74	457.14	62.57	2059.00	.28	391.34	.01	35.00
*	102.550	648.00	34.01	8548.46	388.17	35.01	528.00	.08	2895.65	.00	35.00
*	102.550	1080.00	34.03	8555.26	388.21	35.03	528.00	.13	1745.99	.00	35.00
*	102.550	1800.00	34.08	8574.09	388.34	35.08	528.00	.21	1055.33	.01	35.00
*	102.550	3000.00	34.21	8625.85	388.68	35.21	528.00	.35	640.57	.01	35.00
*	102.550	5000.00	34.57	8765.63	389.62	35.57	528.00	.57	391.60	.02	35.00
	102.670	648.00	34.01	8432.83	434.52	26.11	634.00	.08	2897.94	.00	35.00
	102.670	1080.00	34.03	8440.41	434.66	26.13	634.00	.13	1747.36	.01	35.00
	102.670	1800.00	34.08	8461.41	435.03	26.18	634.00	.21	1056.15	.01	35.00
	102.670	3000.00	34.21	8519.21	436.04	26.31	634.00	.35	641.07	.01	35.00
	102.670	5000.00	34.57	8675.72	438.78	26.67	634.00	.58	391.91	.02	35.00
	102.860	648.00	34.01	8180.20	441.04	26.01	1003.00	.08	2901.46	.00	35.00
	102.860	1080.00	34.03	8187.95	441.10	26.03	1003.00	.13	1749.48	.01	35.00
	102.860	1800.00	34.08	8209.43	441.29	26.08	1003.00	.22	1057.43	.01	35.00

	102.860	3000.00	34.21	8268.46	441.80	26.21	1003.00	.36	641.83	.01	35.00
	102.860	5000.00	34.57	8427.94	443.18	26.57	1003.00	.59	392.38	.02	35.00
	103.200	648.00	34.01	7803.34	368.96	30.91	1795.00	.08	2907.46	.00	35.00
	103.200	1080.00	34.03	7809.90	369.04	30.93	1795.00	.14	1753.08	.01	35.00
	103.200	1800.00	34.08	7828.10	369.27	30.98	1795.00	.23	1059.59	.01	35.00
	103.200	3000.00	34.21	7878.14	369.90	31.11	1795.00	.38	643.14	.01	35.00
	103.200	5000.00	34.58	8013.36	371.58	31.48	1795.00	.62	393.18	.02	35.00
	105.700	648.00	34.01	8935.51	433.74	31.11	13199.00	.07	2958.02	.00	35.00
	105.700	1080.00	34.03	8943.94	433.92	31.13	13199.00	.12	1783.44	.00	35.00
	105.700	1800.00	34.08	8967.30	434.42	31.18	13199.00	.20	1077.86	.01	35.00
	105.700	3000.00	34.23	9031.49	435.78	31.33	13199.00	.33	654.18	.01	35.00
	105.700	5000.00	34.62	9204.80	439.44	31.72	13199.00	.54	399.92	.02	35.00
*	105.900	648.00	34.01	11557.23	434.82	40.91	1056.00	.06	2963.25	.00	35.00
*	105.900	1080.00	34.03	11565.64	434.95	40.93	1056.00	.09	1786.59	.00	35.00
*	105.900	1800.00	34.08	11588.95	435.31	40.98	1056.00	.16	1079.75	.01	35.00
*	105.900	3000.00	34.23	11652.98	436.28	41.13	1056.00	.26	655.32	.01	35.00
*	105.900	5000.00	34.63	11825.67	438.95	41.53	1056.00	.42	400.62	.01	35.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
106.100	648.00	34.01	9174.10	404.81	33.11	1056.00	.07	2967.41	.00	35.00
106.100	1080.00	34.03	9181.97	404.88	33.13	1056.00	.12	1789.08	.00	35.00
106.100	1800.00	34.08	9203.75	405.07	33.18	1056.00	.20	1081.25	.01	35.00
106.100	3000.00	34.23	9263.56	405.60	33.33	1056.00	.32	656.23	.01	35.00
106.100	5000.00	34.63	9424.57	407.01	33.73	1056.00	.53	401.17	.02	35.00
106.300	648.00	34.01	9589.91	392.09	37.01	1056.00	.07	2971.75	.00	35.00
106.300	1080.00	34.03	9597.54	392.19	37.03	1056.00	.11	1791.69	.00	35.00
106.300	1800.00	34.08	9618.65	392.48	37.08	1056.00	.19	1082.81	.01	35.00
106.300	3000.00	34.23	9676.67	393.28	37.23	1056.00	.31	657.17	.01	35.00
106.300	5000.00	34.63	9833.31	396.98	37.63	1056.00	.51	401.75	.02	35.00
106.500	648.00	34.01	9080.70	410.69	30.91	1056.00	.07	2975.86	.00	35.00
106.500	1080.00	34.03	9088.73	410.79	30.93	1056.00	.12	1794.15	.00	35.00
106.500	1800.00	34.08	9110.97	411.08	30.98	1056.00	.20	1084.30	.01	35.00
106.500	3000.00	34.23	9172.04	411.86	31.13	1056.00	.33	658.07	.01	35.00
106.500	5000.00	34.63	9336.60	413.96	31.53	1056.00	.54	402.30	.02	35.00
106.700	648.00	34.01	9600.16	390.37	35.21	1056.00	.07	2980.20	.00	35.00
106.700	1080.00	34.03	9607.81	390.45	35.23	1056.00	.11	1796.76	.00	35.00
106.700	1800.00	34.09	9629.02	390.70	35.29	1056.00	.19	1085.87	.01	35.00
106.700	3000.00	34.23	9687.27	391.37	35.43	1056.00	.31	659.02	.01	35.00
106.700	5000.00	34.63	9844.15	393.18	35.83	1056.00	.51	402.87	.02	35.00
106.900	648.00	34.01	8210.31	414.99	33.21	1056.00	.08	2983.92	.00	35.00
106.900	1080.00	34.03	8218.49	415.16	33.23	1056.00	.13	1799.00	.01	35.00
106.900	1800.00	34.09	8241.16	415.64	33.29	1056.00	.22	1087.21	.01	35.00

106.900	3000.00	34.23	8303.45	416.95	33.43	1056.00	.36	659.83	.01	35.00
106.900	5000.00	34.64	8471.65	420.46	33.84	1056.00	.59	403.37	.02	35.00
107.100	648.00	34.01	8912.68	489.15	26.31	1056.00	.07	2987.95	.00	35.00
107.100	1080.00	34.03	8922.37	489.34	26.33	1056.00	.12	1801.42	.00	35.00
107.100	1800.00	34.09	8949.18	489.89	26.39	1056.00	.20	1088.67	.01	35.00
107.100	3000.00	34.24	9022.88	491.37	26.54	1056.00	.33	660.71	.01	35.00
107.100	5000.00	34.64	9221.81	495.36	26.94	1056.00	.54	403.91	.02	35.00
107.500	648.00	34.01	8381.00	455.92	26.01	2112.00	.08	2995.54	.00	35.00
107.500	1080.00	34.03	8390.15	455.99	26.03	2112.00	.13	1805.98	.01	35.00
107.500	1800.00	34.09	8415.50	456.20	26.09	2112.00	.21	1091.41	.01	35.00
107.500	3000.00	34.24	8485.06	456.77	26.24	2112.00	.35	662.37	.01	35.00
107.500	5000.00	34.65	8672.08	458.30	26.65	2112.00	.58	404.93	.02	35.00
107.700	648.00	34.01	7784.84	430.47	29.11	1056.00	.08	2999.07	.00	35.00
107.700	1080.00	34.03	7793.53	430.54	29.13	1056.00	.14	1808.09	.01	35.00
107.700	1800.00	34.09	7817.60	430.75	29.19	1056.00	.23	1092.69	.01	35.00
107.700	3000.00	34.24	7883.64	431.30	29.34	1056.00	.38	663.14	.02	35.00
107.700	5000.00	34.65	8061.15	432.79	29.75	1056.00	.62	405.40	.03	35.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	107.900	648.00	34.01	8602.31	412.02	35.01	1056.00	.08	3002.96	.00	35.00
	107.900	1080.00	34.03	8610.70	412.14	35.03	1056.00	.13	1810.43	.00	35.00
	107.900	1800.00	34.09	8633.91	412.47	35.09	1056.00	.21	1094.09	.01	35.00
	107.900	3000.00	34.24	8697.61	413.39	35.24	1056.00	.34	663.99	.01	35.00
	107.900	5000.00	34.66	8869.04	415.83	35.66	1056.00	.56	405.92	.02	35.00
	108.100	648.00	34.01	8800.26	379.75	41.81	1056.00	.07	3006.94	.00	35.00
	108.100	1080.00	34.03	8808.04	379.92	41.83	1056.00	.12	1812.82	.00	35.00
	108.100	1800.00	34.09	8829.60	380.36	41.89	1056.00	.20	1095.53	.01	35.00
	108.100	3000.00	34.24	8888.77	381.28	42.04	1056.00	.34	664.86	.01	35.00
	108.100	5000.00	34.66	9048.02	383.67	42.46	1056.00	.55	406.45	.02	35.00
	108.500	648.00	34.01	7359.93	402.62	25.91	2112.00	.09	3013.61	.00	35.00
	108.500	1080.00	34.03	7368.25	402.71	25.93	2112.00	.15	1816.83	.01	35.00
	108.500	1800.00	34.09	7391.28	402.98	25.99	2112.00	.24	1097.94	.01	35.00
	108.500	3000.00	34.25	7454.46	403.71	26.15	2112.00	.40	666.32	.02	35.00
	108.500	5000.00	34.67	7624.27	405.67	26.57	2112.00	.66	407.35	.03	35.00
*	108.700	648.00	34.01	9490.20	437.52	30.11	1056.00	.07	3017.90	.00	35.00
*	108.700	1080.00	34.03	9499.30	437.61	30.13	1056.00	.11	1819.41	.00	35.00
*	108.700	1800.00	34.09	9524.48	437.86	30.19	1056.00	.19	1099.49	.01	35.00
*	108.700	3000.00	34.25	9593.55	438.53	30.35	1056.00	.31	667.26	.01	35.00
*	108.700	5000.00	34.67	9779.03	440.34	30.77	1056.00	.51	407.92	.02	35.00
*	108.900	648.00	34.01	7041.23	433.18	27.01	1056.00	.09	3021.09	.00	35.00
*	108.900	1080.00	34.03	7050.33	433.39	27.03	1056.00	.15	1821.32	.01	35.00
*	108.900	1800.00	34.09	7075.52	434.00	27.09	1056.00	.25	1100.65	.01	35.00

*	108.900	3000.00	34.25	7144.72	435.67	27.25	1056.00	.42	667.96	.02	35.00
*	108.900	5000.00	34.67	7331.25	440.12	27.67	1056.00	.68	408.35	.03	35.00
	109.200	648.00	34.01	8149.25	442.42	29.21	1584.00	.08	3026.62	.00	35.00
	109.200	1080.00	34.03	8158.61	442.52	29.23	1584.00	.13	1824.65	.01	35.00
	109.200	1800.00	34.09	8184.51	442.78	29.29	1584.00	.22	1102.65	.01	35.00
	109.200	3000.00	34.25	8255.51	443.50	29.45	1584.00	.36	669.17	.01	35.00
	109.200	5000.00	34.68	8446.09	445.44	29.88	1584.00	.59	409.09	.02	35.00
	109.700	648.00	34.01	8045.18	418.17	30.91	2640.00	.08	3035.73	.00	35.00
	109.700	1080.00	34.03	8054.25	418.28	30.93	2640.00	.13	1830.12	.01	35.00
	109.700	1800.00	34.09	8079.35	418.60	30.99	2640.00	.22	1105.94	.01	35.00
	109.700	3000.00	34.26	8148.15	419.46	31.16	2640.00	.37	671.16	.01	35.00
	109.700	5000.00	34.69	8332.69	421.78	31.59	2640.00	.60	410.32	.02	35.00
	110.100	648.00	34.01	9446.86	463.92	28.41	2112.00	.07	3044.28	.00	35.00
	110.100	1080.00	34.03	9457.00	463.99	28.43	2112.00	.11	1835.25	.00	35.00
	110.100	1800.00	34.09	9485.04	464.18	28.49	2112.00	.19	1109.03	.01	35.00
	110.100	3000.00	34.26	9561.86	464.69	28.66	2112.00	.31	673.03	.01	35.00
	110.100	5000.00	34.70	9767.46	466.08	29.10	2112.00	.51	411.46	.02	35.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	110.300	648.00	34.01	8727.38	423.32	32.71	1056.00	.07	3048.23	.00	35.00
	110.300	1080.00	34.03	8736.68	423.44	32.73	1056.00	.12	1837.63	.00	35.00
	110.300	1800.00	34.09	8762.41	423.78	32.79	1056.00	.21	1110.46	.01	35.00
	110.300	3000.00	34.26	8832.92	424.70	32.96	1056.00	.34	673.89	.01	35.00
	110.300	5000.00	34.70	9022.00	427.16	33.40	1056.00	.55	411.99	.02	35.00
	110.500	648.00	34.01	8290.30	382.95	31.11	1056.00	.08	3051.98	.00	35.00
	110.500	1080.00	34.03	8298.74	383.05	31.13	1056.00	.13	1839.88	.00	35.00
	110.500	1800.00	34.10	8322.08	383.31	31.20	1056.00	.22	1111.81	.01	35.00
	110.500	3000.00	34.26	8386.04	384.04	31.36	1056.00	.36	674.71	.01	35.00
	110.500	5000.00	34.71	8557.43	385.97	31.81	1056.00	.58	412.49	.02	35.00
*	110.700	648.00	34.01	21573.69	1037.25	47.91	1056.00	.03	3061.75	.00	35.00
*	110.700	1080.00	34.03	21596.65	1037.35	47.93	1056.00	.05	1845.74	.00	35.00
*	110.700	1800.00	34.10	21660.14	1037.61	48.00	1056.00	.08	1115.34	.00	35.00
*	110.700	3000.00	34.26	21833.99	1038.34	48.16	1056.00	.14	676.85	.01	35.00
*	110.700	5000.00	34.71	22298.68	1040.27	48.61	1056.00	.22	413.80	.01	35.00
*	111.300	648.00	34.01	8365.96	435.35	36.11	3168.00	.08	3073.11	.00	35.00
*	111.300	1080.00	34.03	8375.72	435.64	36.13	3168.00	.13	1852.57	.01	35.00
*	111.300	1800.00	34.10	8402.73	436.43	36.20	3168.00	.21	1119.45	.01	35.00
*	111.300	3000.00	34.26	8476.90	438.62	36.36	3168.00	.35	679.33	.01	35.00
*	111.300	5000.00	34.71	8676.65	444.46	36.81	3168.00	.58	415.33	.02	35.00
	111.700	648.00	34.01	10337.30	476.46	32.01	2112.00	.06	3082.47	.00	35.00
	111.700	1080.00	34.04	10347.96	476.59	32.04	2112.00	.10	1858.19	.00	35.00
	111.700	1800.00	34.10	10377.45	476.94	32.10	2112.00	.17	1122.83	.01	35.00

111.700	3000.00	34.27	10458.24	477.91	32.27	2112.00	.29	681.38	.01	35.00
111.700	5000.00	34.72	10674.65	480.49	32.72	2112.00	.47	416.58	.02	35.00
111.900	648.00	34.01	8296.97	462.17	21.51	1056.00	.08	3086.23	.00	35.00
111.900	1080.00	34.04	8307.41	462.28	21.54	1056.00	.13	1860.45	.01	35.00
111.900	1800.00	34.10	8336.26	462.57	21.60	1056.00	.22	1124.19	.01	35.00
111.900	3000.00	34.27	8415.28	463.35	21.77	1056.00	.36	682.20	.01	35.00
111.900	5000.00	34.72	8626.76	465.44	22.22	1056.00	.58	417.09	.02	35.00
112.100	648.00	34.01	8810.21	435.93	25.91	1056.00	.07	3090.21	.00	35.00
112.100	1080.00	34.04	8820.08	436.02	25.94	1056.00	.12	1862.84	.00	35.00
112.100	1800.00	34.10	8847.37	436.27	26.00	1056.00	.20	1125.64	.01	35.00
112.100	3000.00	34.27	8922.08	436.97	26.17	1056.00	.34	683.07	.01	35.00
112.100	5000.00	34.73	9121.96	438.81	26.63	1056.00	.55	417.62	.02	35.00
112.300	648.00	34.01	8308.07	399.70	31.11	1056.00	.08	3093.97	.00	35.00
112.300	1080.00	34.04	8317.18	399.85	31.14	1056.00	.13	1865.10	.01	35.00
112.300	1800.00	34.10	8342.38	400.27	31.20	1056.00	.22	1126.99	.01	35.00
112.300	3000.00	34.27	8411.44	401.41	31.37	1056.00	.36	683.90	.01	35.00
112.300	5000.00	34.73	8596.52	404.45	31.83	1056.00	.58	418.13	.02	35.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	112.500	648.00	34.01	9434.51	389.03	34.01	1056.00	.07	3098.25	.00	35.00
	112.500	1080.00	34.04	9443.41	389.32	34.04	1056.00	.11	1867.67	.00	35.00
	112.500	1800.00	34.10	9468.05	390.12	34.10	1056.00	.19	1128.54	.01	35.00
	112.500	3000.00	34.27	9535.69	392.30	34.27	1056.00	.31	684.83	.01	35.00
	112.500	5000.00	34.73	9717.87	398.13	34.73	1056.00	.51	418.70	.02	35.00
	112.700	648.00	34.01	8629.29	384.89	43.21	1056.00	.08	3102.15	.00	35.00
	112.700	1080.00	34.04	8638.15	385.06	43.24	1056.00	.13	1870.01	.00	35.00
	112.700	1800.00	34.10	8662.63	385.53	43.30	1056.00	.21	1129.95	.01	35.00
	112.700	3000.00	34.27	8729.73	386.81	43.47	1056.00	.34	685.68	.01	35.00
	112.700	5000.00	34.74	8909.69	390.23	43.94	1056.00	.56	419.22	.02	35.00
*	112.900	648.00	34.01	12552.85	571.23	37.11	1056.00	.05	3107.83	.00	35.00
*	112.900	1080.00	34.04	12566.01	571.41	37.14	1056.00	.09	1873.43	.00	35.00
*	112.900	1800.00	34.10	12602.43	571.91	37.20	1056.00	.14	1132.00	.01	35.00
*	112.900	3000.00	34.27	12702.18	573.30	37.37	1056.00	.24	686.92	.01	35.00
*	112.900	5000.00	34.74	12969.23	576.99	37.84	1056.00	.39	419.98	.01	35.00
*	113.300	648.00	34.01	7841.71	416.27	30.21	2112.00	.08	3114.93	.00	35.00
*	113.300	1080.00	34.04	7851.39	416.47	30.24	2112.00	.14	1877.69	.01	35.00
*	113.300	1800.00	34.10	7878.18	417.02	30.30	2112.00	.23	1134.57	.01	35.00
*	113.300	3000.00	34.28	7951.62	418.54	30.48	2112.00	.38	688.48	.02	35.00
*	113.300	5000.00	34.74	8148.61	422.60	30.94	2112.00	.61	420.94	.02	35.00
	113.500	648.00	34.01	8133.13	425.83	32.21	1056.00	.08	3118.62	.00	35.00
	113.500	1080.00	34.04	8143.05	426.07	32.24	1056.00	.13	1879.90	.01	35.00
	113.500	1800.00	34.10	8170.48	426.71	32.30	1056.00	.22	1135.90	.01	35.00

113.500	3000.00	34.28	8245.71	428.48	32.48	1056.00	.36	689.28	.01	35.00
113.500	5000.00	34.75	8447.65	433.20	32.95	1056.00	.59	421.43	.02	35.00
113.900	648.00	34.01	8554.63	467.94	24.71	2112.00	.08	3126.36	.00	35.00
113.900	1080.00	34.04	8565.68	467.99	24.74	2112.00	.13	1884.56	.01	35.00
113.900	1800.00	34.10	8596.22	468.12	24.80	2112.00	.21	1138.70	.01	35.00
113.900	3000.00	34.28	8679.76	468.48	24.98	2112.00	.35	690.98	.01	35.00
113.900	5000.00	34.76	8902.50	469.43	25.46	2112.00	.56	422.48	.02	35.00
114.100	648.00	34.01	8984.19	457.05	27.01	1056.00	.07	3130.43	.00	35.00
114.100	1080.00	34.04	8995.04	457.23	27.04	1056.00	.12	1887.00	.00	35.00
114.100	1800.00	34.10	9025.06	457.74	27.10	1056.00	.20	1140.17	.01	35.00
114.100	3000.00	34.28	9107.28	459.11	27.28	1056.00	.33	691.87	.01	35.00
114.100	5000.00	34.76	9327.29	462.76	27.76	1056.00	.54	423.03	.02	35.00
114.300	648.00	34.01	10833.94	512.34	33.91	1056.00	.06	3135.33	.00	35.00
114.300	1080.00	34.04	10846.16	512.54	33.94	1056.00	.10	1889.94	.00	35.00
114.300	1800.00	34.10	10879.97	513.09	34.00	1056.00	.17	1141.95	.01	35.00
114.300	3000.00	34.28	10972.56	514.61	34.18	1056.00	.27	692.95	.01	35.00
114.300	5000.00	34.76	11220.25	518.65	34.66	1056.00	.45	423.68	.02	35.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	114.400	648.00	34.01	8740.05	480.76	26.91	528.00	.07	3137.31	.00	35.00
	114.400	1080.00	34.04	8751.55	481.05	26.94	528.00	.12	1891.13	.01	35.00
	114.400	1800.00	34.10	8783.38	481.85	27.00	528.00	.20	1142.66	.01	35.00
	114.400	3000.00	34.28	8870.58	483.79	27.18	528.00	.34	693.38	.01	35.00
	114.400	5000.00	34.76	9104.31	488.94	27.66	528.00	.55	423.95	.02	35.00
*	114.500	648.00	34.01	14561.13	446.20	57.11	528.00	.04	3140.61	.00	35.00
*	114.500	1080.00	34.04	14571.80	446.31	57.14	528.00	.07	1893.11	.00	35.00
*	114.500	1800.00	34.10	14601.32	446.61	57.20	528.00	.12	1143.85	.00	35.00
*	114.500	3000.00	34.29	14682.10	447.45	57.39	528.00	.20	694.10	.01	35.00
*	114.500	5000.00	34.77	14897.75	449.67	57.87	528.00	.34	424.39	.01	35.00
*	114.700	648.00	34.01	11824.62	506.19	34.21	1056.00	.05	3145.96	.00	35.00
*	114.700	1080.00	34.04	11836.81	506.29	34.24	1056.00	.09	1896.33	.00	35.00
*	114.700	1800.00	34.10	11870.51	506.58	34.30	1056.00	.15	1145.79	.01	35.00
*	114.700	3000.00	34.29	11962.68	507.36	34.49	1056.00	.25	695.27	.01	35.00
*	114.700	5000.00	34.77	12208.55	509.43	34.97	1056.00	.41	425.10	.01	35.00
*	114.900	648.00	34.01	7900.56	468.03	25.01	1056.00	.08	3149.53	.00	35.00
*	114.900	1080.00	34.04	7911.81	468.06	25.04	1056.00	.14	1898.48	.01	35.00
*	114.900	1800.00	34.10	7942.93	468.13	25.10	1056.00	.23	1147.08	.01	35.00
*	114.900	3000.00	34.29	8027.97	468.33	25.29	1056.00	.37	696.05	.02	35.00
*	114.900	5000.00	34.77	8254.38	468.85	25.77	1056.00	.61	425.59	.03	35.00
	115.300	648.00	34.01	8206.36	443.51	29.11	2112.00	.08	3156.96	.00	35.00
	115.300	1080.00	34.04	8217.11	443.57	29.14	2112.00	.13	1902.94	.01	35.00
	115.300	1800.00	34.11	8246.83	443.75	29.21	2112.00	.22	1149.77	.01	35.00

	115.300	3000.00	34.29	8328.07	444.24	29.39	2112.00	.36	697.68	.01	35.00
	115.300	5000.00	34.78	8544.52	445.55	29.88	2112.00	.59	426.59	.02	35.00
*	115.900	648.00	34.01	10558.84	399.96	35.21	3168.00	.06	3171.30	.00	35.00
*	115.900	1080.00	34.04	10568.75	400.03	35.24	3168.00	.10	1911.55	.00	35.00
*	115.900	1800.00	34.11	10596.16	400.21	35.31	3168.00	.17	1154.95	.01	35.00
*	115.900	3000.00	34.29	10671.04	400.70	35.49	3168.00	.28	700.81	.01	35.00
*	115.900	5000.00	34.79	10870.25	402.00	35.99	3168.00	.46	428.50	.02	35.00
	116.100	648.00	34.01	10061.24	395.95	37.11	1056.00	.06	3175.86	.00	35.00
	116.100	1080.00	34.04	10071.04	396.05	37.14	1056.00	.11	1914.29	.00	35.00
	116.100	1800.00	34.11	10098.13	396.33	37.21	1056.00	.18	1156.60	.01	35.00
	116.100	3000.00	34.29	10172.18	397.10	37.39	1056.00	.29	701.81	.01	35.00
	116.100	5000.00	34.79	10369.58	399.14	37.89	1056.00	.48	429.11	.02	35.00
	116.300	648.00	34.01	10269.52	418.79	34.11	1056.00	.06	3180.51	.00	35.00
	116.300	1080.00	34.04	10279.88	418.87	34.14	1056.00	.11	1917.08	.00	35.00
	116.300	1800.00	34.11	10308.54	419.09	34.21	1056.00	.17	1158.28	.01	35.00
	116.300	3000.00	34.29	10386.85	419.42	34.39	1056.00	.29	702.82	.01	35.00
	116.300	5000.00	34.79	10595.13	420.28	34.89	1056.00	.47	429.73	.02	35.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
*	116.700	648.00	34.01	10044.72	865.20	30.11	2112.00	.06	3189.60	.00	35.00
*	116.700	1080.00	34.04	10066.25	865.47	30.14	2112.00	.11	1922.55	.01	35.00
*	116.700	1800.00	34.11	10125.78	866.24	30.21	2112.00	.18	1161.58	.01	35.00
*	116.700	3000.00	34.30	10288.59	868.32	30.40	2112.00	.29	704.83	.01	35.00
*	116.700	5000.00	34.80	10722.85	873.85	30.90	2112.00	.47	430.99	.02	35.00
*	117.380	648.00	52.00	15696.39	699.05	32.00	3590.00	.04	3213.76	.00	35.00
*	117.380	1080.00	52.00	15696.39	699.05	32.00	3590.00	.07	1937.04	.00	35.00
*	117.380	1800.00	52.00	15696.39	699.05	32.00	3590.00	.11	1170.27	.00	35.00
*	117.380	3000.00	52.00	15696.39	699.05	32.00	3590.00	.19	710.05	.01	35.00
*	117.380	5000.00	52.00	15696.39	699.05	32.00	3590.00	.32	434.12	.01	35.00
	117.610	648.00	52.00	15588.89	710.35	32.00	1214.00	.04	3221.87	.00	35.00
	117.610	1080.00	52.00	15588.97	710.35	32.00	1214.00	.07	1941.91	.00	35.00
	117.610	1800.00	52.00	15589.19	710.36	32.00	1214.00	.12	1173.19	.00	35.00
	117.610	3000.00	52.00	15589.75	710.36	32.00	1214.00	.19	711.80	.01	35.00
	117.610	5000.00	52.00	15591.09	710.37	32.00	1214.00	.32	435.17	.01	35.00
	117.860	648.00	52.00	17528.31	684.67	38.00	1320.00	.04	3231.79	.00	35.00
	117.860	1080.00	52.00	17528.35	684.67	38.00	1320.00	.06	1947.86	.00	35.00
	117.860	1800.00	52.00	17528.49	684.67	38.00	1320.00	.10	1176.76	.00	35.00
	117.860	3000.00	52.00	17528.86	684.67	38.00	1320.00	.17	713.95	.01	35.00
	117.860	5000.00	52.00	17529.87	684.69	38.00	1320.00	.29	436.46	.01	35.00
	118.440	648.00	52.00	16768.96	618.81	35.00	3062.00	.04	3253.80	.00	35.00
	118.440	1080.00	52.00	16769.05	618.81	35.00	3062.00	.06	1961.06	.00	35.00
	118.440	1800.00	52.00	16769.30	618.82	35.00	3062.00	.11	1184.69	.00	35.00

118.440	3000.00	52.00	16769.99	618.83	35.00	3062.00	.18	718.70	.01	35.00
118.440	5000.00	52.00	16771.90	618.87	35.00	3062.00	.30	439.31	.01	35.00
118.630	648.00	52.00	16580.82	545.06	41.10	1003.00	.04	3260.93	.00	35.00
118.630	1080.00	52.00	16580.90	545.06	41.10	1003.00	.07	1965.34	.00	35.00
118.630	1800.00	52.00	16581.13	545.07	41.10	1003.00	.11	1187.25	.00	35.00
118.630	3000.00	52.00	16581.73	545.09	41.10	1003.00	.18	720.24	.01	35.00
118.630	5000.00	52.00	16583.44	545.14	41.10	1003.00	.30	440.24	.01	35.00
118.820	648.00	52.00	15438.26	609.07	36.10	1003.00	.04	3267.56	.00	35.00
118.820	1080.00	52.00	15438.35	609.07	36.10	1003.00	.07	1969.32	.00	35.00
118.820	1800.00	52.00	15438.62	609.07	36.10	1003.00	.12	1189.64	.00	35.00
118.820	3000.00	52.00	15439.39	609.08	36.10	1003.00	.19	721.67	.01	35.00
118.820	5000.00	52.01	15441.50	609.10	36.11	1003.00	.32	441.10	.01	35.00
119.390	648.00	52.00	14862.60	489.57	53.00	3009.00	.04	3286.73	.00	35.00
119.390	1080.00	52.00	14862.70	489.57	53.00	3009.00	.07	1980.83	.00	35.00
119.390	1800.00	52.00	14863.01	489.58	53.00	3009.00	.12	1196.55	.00	35.00
119.390	3000.00	52.00	14863.83	489.60	53.00	3009.00	.20	725.81	.01	35.00
119.390	5000.00	52.01	14866.15	489.65	53.01	3009.00	.34	443.58	.01	35.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
119.580	648.00	52.00	16504.04	553.85	38.10	1003.00	.04	3293.83	.00	35.00
119.580	1080.00	52.00	16504.18	553.85	38.10	1003.00	.07	1985.09	.00	35.00
119.580	1800.00	52.00	16504.56	553.86	38.10	1003.00	.11	1199.10	.00	35.00
119.580	3000.00	52.00	16505.61	553.88	38.10	1003.00	.18	727.35	.01	35.00
119.580	5000.00	52.01	16508.54	553.96	38.11	1003.00	.30	444.50	.01	35.00
119.600	648.00	52.00	15275.36	549.58	36.00	105.00	.04	3294.52	.00	35.00
119.600	1080.00	52.00	15275.50	549.58	36.00	105.00	.07	1985.50	.00	35.00
119.600	1800.00	52.00	15275.90	549.59	36.00	105.00	.12	1199.35	.00	35.00
119.600	3000.00	52.00	15276.98	549.60	36.00	105.00	.20	727.50	.01	35.00
119.600	5000.00	52.01	15280.00	549.64	36.01	105.00	.33	444.59	.01	35.00
119.770	648.00	52.00	20303.91	863.63	36.30	897.00	.03	3302.33	.00	35.00
119.770	1080.00	52.00	20304.14	863.63	36.30	897.00	.05	1990.18	.00	35.00
119.770	1800.00	52.00	20304.79	863.63	36.30	897.00	.09	1202.16	.00	35.00
119.770	3000.00	52.00	20306.57	863.65	36.30	897.00	.15	729.18	.01	35.00
119.770	5000.00	52.01	20311.55	863.69	36.31	897.00	.25	445.60	.01	35.00
119.800	648.00	52.00	19231.98	772.17	49.20	158.00	.03	3303.63	.00	35.00
119.800	1080.00	52.00	19232.20	772.17	49.20	158.00	.06	1990.96	.00	35.00
119.800	1800.00	52.00	19232.83	772.18	49.20	158.00	.09	1202.63	.00	35.00
119.800	3000.00	52.00	19234.58	772.21	49.20	158.00	.16	729.46	.01	35.00
119.800	5000.00	52.01	19239.46	772.29	49.21	158.00	.26	445.77	.01	35.00
120.000	648.00	52.00	13788.53	478.69	54.10	1056.00	.05	3309.87	.00	35.00
120.000	1080.00	52.00	13788.68	478.70	54.10	1056.00	.08	1994.71	.00	35.00
120.000	1800.00	52.00	13789.09	478.71	54.10	1056.00	.13	1204.87	.00	35.00

120.000	3000.00	52.00	13790.22	478.74	54.10	1056.00	.22	730.81	.01	35.00
120.000	5000.00	52.01	13793.38	478.84	54.11	1056.00	.36	446.58	.01	35.00
120.200	648.00	52.00	15321.16	511.41	43.10	1056.00	.04	3316.81	.00	35.00
120.200	1080.00	52.00	15321.32	511.42	43.10	1056.00	.07	1998.87	.00	35.00
120.200	1800.00	52.00	15321.77	511.43	43.10	1056.00	.12	1207.37	.00	35.00
120.200	3000.00	52.00	15323.00	511.46	43.10	1056.00	.20	732.31	.01	35.00
120.200	5000.00	52.01	15326.44	511.53	43.11	1056.00	.33	447.48	.01	35.00
120.400	648.00	52.00	15729.94	536.77	40.10	1056.00	.04	3323.93	.00	35.00
120.400	1080.00	52.00	15730.13	536.77	40.10	1056.00	.07	2003.14	.00	35.00
120.400	1800.00	52.00	15730.65	536.78	40.10	1056.00	.11	1209.93	.00	35.00
120.400	3000.00	52.00	15732.10	536.79	40.10	1056.00	.19	733.85	.01	35.00
120.400	5000.00	52.01	15736.17	536.83	40.11	1056.00	.32	448.40	.01	35.00
120.600	648.00	52.00	15184.24	559.61	35.80	1056.00	.04	3330.80	.00	35.00
120.600	1080.00	52.00	15184.44	559.62	35.80	1056.00	.07	2007.27	.00	35.00
120.600	1800.00	52.00	15185.02	559.63	35.80	1056.00	.12	1212.41	.00	35.00
120.600	3000.00	52.00	15186.63	559.67	35.80	1056.00	.20	735.33	.01	35.00
120.600	5000.00	52.01	15191.10	559.78	35.81	1056.00	.33	449.29	.01	35.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	120.800	648.00	52.00	15244.89	508.73	40.90	1056.00	.04	3337.70	.00	35.00
	120.800	1080.00	52.00	15245.09	508.74	40.90	1056.00	.07	2011.41	.00	35.00
	120.800	1800.00	52.00	15245.65	508.75	40.90	1056.00	.12	1214.89	.00	35.00
	120.800	3000.00	52.00	15247.19	508.81	40.90	1056.00	.20	736.82	.01	35.00
	120.800	5000.00	52.01	15251.49	508.95	40.91	1056.00	.33	450.19	.01	35.00
	120.900	648.00	52.00	16571.57	463.05	58.00	528.00	.04	3341.45	.00	35.00
	120.900	1080.00	52.00	16571.76	463.05	58.00	528.00	.07	2013.66	.00	35.00
	120.900	1800.00	52.00	16572.28	463.06	58.00	528.00	.11	1216.24	.00	35.00
	120.900	3000.00	52.00	16573.72	463.06	58.00	528.00	.18	737.63	.01	35.00
	120.900	5000.00	52.01	16577.76	463.09	58.01	528.00	.30	450.68	.01	35.00
	121.000	648.00	52.00	23707.91	1053.64	42.10	528.00	.03	3346.82	.00	35.00
	121.000	1080.00	52.00	23708.37	1053.64	42.10	528.00	.05	2016.88	.00	35.00
	121.000	1800.00	52.00	23709.60	1053.66	42.10	528.00	.08	1218.18	.00	35.00
	121.000	3000.00	52.01	23713.00	1053.69	42.11	528.00	.13	738.79	.00	35.00
	121.000	5000.00	52.01	23722.50	1053.78	42.11	528.00	.21	451.37	.01	35.00
*	121.200	648.00	52.00	18346.93	1179.74	37.90	1056.00	.04	3355.12	.00	35.00
*	121.200	1080.00	52.00	18347.47	1179.75	37.90	1056.00	.06	2021.86	.00	35.00
*	121.200	1800.00	52.00	18348.97	1179.76	37.90	1056.00	.10	1221.17	.00	35.00
*	121.200	3000.00	52.01	18353.10	1179.79	37.91	1056.00	.16	740.59	.01	35.00
*	121.200	5000.00	52.02	18364.62	1179.88	37.92	1056.00	.27	452.45	.01	35.00
	121.400	648.00	52.00	15653.80	523.12	44.60	1056.00	.04	3362.21	.00	35.00
	121.400	1080.00	52.00	15654.06	523.12	44.60	1056.00	.07	2026.11	.00	35.00
	121.400	1800.00	52.00	15654.75	523.12	44.60	1056.00	.11	1223.72	.00	35.00

121.400	3000.00	52.01	15656.66	523.13	44.61	1056.00	.19	742.12	.01	35.00
121.400	5000.00	52.02	15661.98	523.15	44.62	1056.00	.32	453.37	.01	35.00
121.800	648.00	52.00	14631.54	499.50	41.70	2112.00	.04	3375.45	.00	35.00
121.800	1080.00	52.00	14631.80	499.51	41.70	2112.00	.07	2034.06	.00	35.00
121.800	1800.00	52.00	14632.53	499.53	41.70	2112.00	.12	1228.49	.00	35.00
121.800	3000.00	52.01	14634.54	499.57	41.71	2112.00	.20	744.98	.01	35.00
121.800	5000.00	52.02	14640.13	499.70	41.72	2112.00	.34	455.09	.01	35.00
122.100	648.00	52.00	16738.13	526.66	45.30	1584.00	.04	3386.82	.00	35.00
122.100	1080.00	52.00	16738.42	526.67	45.30	1584.00	.06	2040.88	.00	35.00
122.100	1800.00	52.00	16739.21	526.67	45.30	1584.00	.11	1232.58	.00	35.00
122.100	3000.00	52.01	16741.40	526.70	45.31	1584.00	.18	747.44	.01	35.00
122.100	5000.00	52.02	16747.49	526.76	45.32	1584.00	.30	456.56	.01	35.00
122.300	648.00	52.00	15561.31	508.98	45.50	1056.00	.04	3393.86	.00	35.00
122.300	1080.00	52.00	15561.60	508.98	45.50	1056.00	.07	2045.11	.00	35.00
122.300	1800.00	52.00	15562.42	508.99	45.50	1056.00	.12	1235.11	.00	35.00
122.300	3000.00	52.01	15564.65	509.00	45.51	1056.00	.19	748.96	.01	35.00
122.300	5000.00	52.02	15570.87	509.04	45.52	1056.00	.32	457.47	.01	35.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	122.500	648.00	52.00	14104.54	456.35	39.80	1056.00	.05	3400.25	.00	35.00
	122.500	1080.00	52.00	14104.80	456.36	39.80	1056.00	.08	2048.94	.00	35.00
	122.500	1800.00	52.00	14105.54	456.38	39.80	1056.00	.13	1237.41	.00	35.00
	122.500	3000.00	52.01	14107.58	456.43	39.81	1056.00	.21	750.34	.01	35.00
	122.500	5000.00	52.02	14113.27	456.58	39.82	1056.00	.35	458.30	.01	35.00
*	122.600	648.00	52.00	18892.75	455.13	71.90	528.00	.03	3404.53	.00	35.00
*	122.600	1080.00	52.00	18893.02	455.13	71.90	528.00	.06	2051.50	.00	35.00
*	122.600	1800.00	52.00	18893.77	455.14	71.90	528.00	.10	1238.95	.00	35.00
*	122.600	3000.00	52.01	18895.83	455.15	71.91	528.00	.16	751.26	.00	35.00
*	122.600	5000.00	52.02	18901.58	455.17	71.92	528.00	.26	458.86	.01	35.00
*	122.800	648.00	52.00	28662.38	701.39	73.10	1056.00	.02	3417.50	.00	35.00
*	122.800	1080.00	52.00	28662.82	701.39	73.10	1056.00	.04	2059.29	.00	35.00
*	122.800	1800.00	52.00	28664.06	701.40	73.10	1056.00	.06	1243.62	.00	35.00
*	122.800	3000.00	52.01	28667.45	701.42	73.11	1056.00	.10	754.06	.00	35.00
*	122.800	5000.00	52.02	28676.93	701.49	73.12	1056.00	.17	460.54	.00	35.00
*	123.000	648.00	52.00	16257.64	800.65	35.00	1056.00	.04	3424.86	.00	35.00
*	123.000	1080.00	52.00	16258.16	800.66	35.00	1056.00	.07	2063.70	.00	35.00
*	123.000	1800.00	52.00	16259.61	800.67	35.00	1056.00	.11	1246.27	.00	35.00
*	123.000	3000.00	52.01	16263.59	800.71	35.01	1056.00	.18	755.66	.01	35.00
*	123.000	5000.00	52.02	16274.67	800.81	35.02	1056.00	.31	461.49	.01	35.00
	123.180	648.00	52.00	15458.63	525.05	42.20	950.00	.04	3431.16	.00	35.00
	123.180	1080.00	52.00	15458.96	525.05	42.20	950.00	.07	2067.48	.00	35.00
	123.180	1800.00	52.00	15459.91	525.06	42.20	950.00	.12	1248.54	.00	35.00

123.180	3000.00	52.01	15462.50	525.09	42.21	950.00	.19	757.02	.01	35.00
123.180	5000.00	52.02	15469.74	525.17	42.22	950.00	.32	462.31	.01	35.00
123.380	648.00	52.00	15555.83	520.22	40.90	1056.00	.04	3438.20	.00	35.00
123.380	1080.00	52.00	15556.18	520.22	40.90	1056.00	.07	2071.71	.00	35.00
123.380	1800.00	52.00	15557.17	520.22	40.90	1056.00	.12	1251.08	.00	35.00
123.380	3000.00	52.01	15559.85	520.24	40.91	1056.00	.19	758.54	.01	35.00
123.380	5000.00	52.02	15567.34	520.29	40.92	1056.00	.32	463.22	.01	35.00
123.580	648.00	52.00	14722.56	567.16	33.30	1056.00	.04	3444.86	.00	35.00
123.580	1080.00	52.00	14722.95	567.16	33.30	1056.00	.07	2075.70	.00	35.00
123.580	1800.00	52.00	14724.04	567.17	33.30	1056.00	.12	1253.47	.00	35.00
123.580	3000.00	52.01	14727.04	567.21	33.31	1056.00	.20	759.98	.01	35.00
123.580	5000.00	52.02	14735.41	567.30	33.32	1056.00	.34	464.09	.01	35.00
123.780	648.00	52.00	14308.96	487.34	42.20	1056.00	.05	3451.34	.00	35.00
123.780	1080.00	52.00	14309.30	487.34	42.20	1056.00	.08	2079.59	.00	35.00
123.780	1800.00	52.00	14310.27	487.35	42.20	1056.00	.13	1255.81	.00	35.00
123.780	3000.00	52.01	14312.94	487.37	42.21	1056.00	.21	761.38	.01	35.00
123.780	5000.00	52.02	14320.35	487.42	42.22	1056.00	.35	464.93	.01	35.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
*	123.960	648.00	52.00	17228.85	430.90	67.20	950.00	.04	3458.35	.00	35.00
*	123.960	1080.00	52.00	17229.16	430.91	67.20	950.00	.06	2083.80	.00	35.00
*	123.960	1800.00	52.00	17230.04	430.92	67.20	950.00	.10	1258.33	.00	35.00
*	123.960	3000.00	52.01	17232.47	430.95	67.21	950.00	.17	762.89	.00	35.00
*	123.960	5000.00	52.02	17239.25	431.03	67.22	950.00	.29	465.84	.01	35.00
	124.150	648.00	52.00	15964.98	590.34	37.00	1003.00	.04	3465.22	.00	35.00
	124.150	1080.00	52.00	15965.43	590.35	37.00	1003.00	.07	2087.92	.00	35.00
	124.150	1800.00	52.00	15966.69	590.37	37.00	1003.00	.11	1260.80	.00	35.00
	124.150	3000.00	52.01	15970.16	590.45	37.01	1003.00	.19	764.38	.01	35.00
	124.150	5000.00	52.03	15979.79	590.64	37.03	1003.00	.31	466.73	.01	35.00
	124.350	648.00	52.00	14485.72	649.52	31.90	1056.00	.04	3471.78	.00	35.00
	124.350	1080.00	52.00	14486.22	649.52	31.90	1056.00	.07	2091.85	.00	35.00
	124.350	1800.00	52.00	14487.62	649.53	31.90	1056.00	.12	1263.17	.00	35.00
	124.350	3000.00	52.01	14491.48	649.56	31.91	1056.00	.21	765.79	.01	35.00
	124.350	5000.00	52.03	14502.22	649.63	31.93	1056.00	.34	467.58	.01	35.00
	124.750	648.00	52.00	14568.63	441.05	52.10	2112.00	.04	3484.97	.00	35.00
	124.750	1080.00	52.00	14569.00	441.05	52.10	2112.00	.07	2099.77	.00	35.00
	124.750	1800.00	52.00	14570.02	441.06	52.10	2112.00	.12	1267.91	.00	35.00
	124.750	3000.00	52.01	14572.85	441.09	52.11	2112.00	.21	768.64	.01	35.00
	124.750	5000.00	52.03	14580.69	441.17	52.13	2112.00	.34	469.29	.01	35.00
	124.950	648.00	52.00	15515.02	493.71	48.10	1056.00	.04	3491.99	.00	35.00
	124.950	1080.00	52.00	15515.44	493.72	48.10	1056.00	.07	2103.98	.00	35.00
	124.950	1800.00	52.00	15516.62	493.73	48.10	1056.00	.12	1270.44	.00	35.00

124.950	3000.00	52.01	15519.87	493.77	48.11	1056.00	.19	770.16	.01	35.00
124.950	5000.00	52.03	15528.91	493.87	48.13	1056.00	.32	470.20	.01	35.00
125.160	648.00	52.00	15350.15	458.61	51.00	1108.00	.04	3499.28	.00	35.00
125.160	1080.00	52.00	15350.55	458.61	51.00	1108.00	.07	2108.36	.00	35.00
125.160	1800.00	52.00	15351.67	458.62	51.00	1108.00	.12	1273.07	.00	35.00
125.160	3000.00	52.01	15354.76	458.65	51.01	1108.00	.20	771.73	.01	35.00
125.160	5000.00	52.03	15363.37	458.75	51.03	1108.00	.33	471.15	.01	35.00
125.360	648.00	52.00	13301.14	540.13	35.00	1056.00	.05	3505.30	.00	35.00
125.360	1080.00	52.00	13301.62	540.14	35.00	1056.00	.08	2111.97	.00	35.00
125.360	1800.00	52.00	13302.96	540.16	35.00	1056.00	.14	1275.24	.00	35.00
125.360	3000.00	52.01	13306.67	540.22	35.01	1056.00	.23	773.04	.01	35.00
125.360	5000.00	52.03	13317.01	540.39	35.03	1056.00	.38	471.93	.01	35.00
125.560	648.00	52.00	14093.00	598.96	32.10	1056.00	.05	3511.68	.00	35.00
125.560	1080.00	52.00	14093.54	598.97	32.10	1056.00	.08	2115.80	.00	35.00
125.560	1800.00	52.00	14095.07	598.98	32.10	1056.00	.13	1277.53	.00	35.00
125.560	3000.00	52.01	14099.29	599.01	32.11	1056.00	.21	774.41	.01	35.00
125.560	5000.00	52.03	14111.01	599.10	32.13	1056.00	.35	472.75	.01	35.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
125.770	648.00	52.00	15660.09	485.94	47.90	1108.00	.04	3519.12	.00	35.00
125.770	1080.00	52.00	15660.56	485.94	47.90	1108.00	.07	2120.26	.00	35.00
125.770	1800.00	52.00	15661.87	485.95	47.90	1108.00	.11	1280.21	.00	35.00
125.770	3000.00	52.01	15665.49	485.99	47.91	1108.00	.19	776.02	.01	35.00
125.770	5000.00	52.03	15675.54	486.09	47.93	1108.00	.32	473.72	.01	35.00
126.000	648.00	52.00	14648.85	486.47	46.10	1214.00	.04	3526.74	.00	35.00
126.000	1080.00	52.00	14649.34	486.48	46.10	1214.00	.07	2124.83	.00	35.00
126.000	1800.00	52.00	14650.69	486.49	46.10	1214.00	.12	1282.96	.00	35.00
126.000	3000.00	52.01	14654.42	486.52	46.11	1214.00	.20	777.67	.01	35.00
126.000	5000.00	52.03	14664.81	486.61	46.13	1214.00	.34	474.71	.01	35.00
126.200	648.00	52.00	13510.09	547.27	40.80	1056.00	.05	3532.86	.00	35.00
126.200	1080.00	52.00	13510.64	547.28	40.80	1056.00	.08	2128.50	.00	35.00
126.200	1800.00	52.00	13512.18	547.31	40.80	1056.00	.13	1285.16	.00	35.00
126.200	3000.00	52.01	13516.41	547.40	40.81	1056.00	.22	778.99	.01	35.00
126.200	5000.00	52.03	13528.21	547.65	40.83	1056.00	.37	475.50	.01	35.00
126.410	648.00	52.00	14488.96	556.45	38.00	1108.00	.04	3539.74	.00	35.00
126.410	1080.00	52.00	14489.53	556.46	38.00	1108.00	.07	2132.63	.00	35.00
126.410	1800.00	52.00	14491.15	556.51	38.00	1108.00	.12	1287.63	.00	35.00
126.410	3000.00	52.01	14495.59	556.64	38.01	1108.00	.21	780.48	.01	35.00
126.410	5000.00	52.04	14507.94	557.01	38.04	1108.00	.34	476.40	.01	35.00
126.610	648.00	52.00	15377.17	534.36	44.90	1056.00	.04	3546.70	.00	35.00
126.610	1080.00	52.00	15377.75	534.36	44.90	1056.00	.07	2136.81	.00	35.00
126.610	1800.00	52.00	15379.36	534.38	44.90	1056.00	.12	1290.14	.00	35.00

126.610	3000.00	52.01	15383.80	534.44	44.91	1056.00	.20	781.98	.01	35.00
126.610	5000.00	52.04	15396.14	534.60	44.94	1056.00	.32	477.30	.01	35.00
126.800	648.00	52.00	13765.83	477.80	47.10	1003.00	.05	3552.62	.00	35.00
126.800	1080.00	52.00	13766.35	477.81	47.10	1003.00	.08	2140.36	.00	35.00
126.800	1800.00	52.00	13767.82	477.84	47.10	1003.00	.13	1292.27	.00	35.00
126.800	3000.00	52.01	13771.88	477.93	47.11	1003.00	.22	783.26	.01	35.00
126.800	5000.00	52.04	13783.16	478.19	47.14	1003.00	.36	478.07	.01	35.00
127.000	648.00	52.00	16945.02	632.34	39.00	1056.00	.04	3560.29	.00	35.00
127.000	1080.00	52.00	16945.72	632.35	39.00	1056.00	.06	2144.96	.00	35.00
127.000	1800.00	52.00	16947.69	632.37	39.00	1056.00	.11	1295.03	.00	35.00
127.000	3000.00	52.01	16953.14	632.42	39.01	1056.00	.18	784.92	.01	35.00
127.000	5000.00	52.04	16968.28	632.55	39.04	1056.00	.29	479.06	.01	35.00
127.200	648.00	52.00	16395.74	780.55	34.10	1056.00	.04	3567.71	.00	35.00
127.200	1080.00	52.00	16396.65	780.56	34.10	1056.00	.07	2149.42	.00	35.00
127.200	1800.00	52.01	16399.19	780.59	34.11	1056.00	.11	1297.71	.00	35.00
127.200	3000.00	52.01	16406.18	780.69	34.11	1056.00	.18	786.52	.01	35.00
127.200	5000.00	52.04	16425.60	780.96	34.14	1056.00	.30	480.03	.01	35.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
127.600	648.00	52.00	15042.39	538.18	39.20	2112.00	.04	3581.33	.00	35.00
127.600	1080.00	52.00	15043.03	538.21	39.20	2112.00	.07	2157.59	.00	35.00
127.600	1800.00	52.01	15044.85	538.29	39.21	2112.00	.12	1302.61	.00	35.00
127.600	3000.00	52.01	15049.87	538.53	39.21	2112.00	.20	789.47	.01	35.00
127.600	5000.00	52.04	15063.80	539.17	39.24	2112.00	.33	481.79	.01	35.00
127.800	648.00	52.00	14352.21	458.15	44.10	1056.00	.05	3587.83	.00	35.00
127.800	1080.00	52.00	14352.77	458.28	44.10	1056.00	.08	2161.49	.00	35.00
127.800	1800.00	52.01	14354.35	458.66	44.11	1056.00	.13	1304.95	.00	35.00
127.800	3000.00	52.01	14358.71	459.69	44.11	1056.00	.21	790.87	.01	35.00
127.800	5000.00	52.04	14370.87	462.57	44.14	1056.00	.35	482.64	.01	35.00
127.980	648.00	52.00	13894.25	472.53	37.10	950.00	.05	3593.49	.00	35.00
127.980	1080.00	52.00	13894.83	472.55	37.10	950.00	.08	2164.88	.00	35.00
127.980	1800.00	52.01	13896.48	472.61	37.11	950.00	.13	1306.99	.00	35.00
127.980	3000.00	52.02	13901.02	472.77	37.12	950.00	.22	792.09	.01	35.00
127.980	5000.00	52.04	13913.64	473.20	37.14	950.00	.36	483.37	.01	35.00
128.170	648.00	52.00	14777.81	489.72	40.20	1003.00	.04	3599.84	.00	35.00
128.170	1080.00	52.00	14778.42	489.73	40.20	1003.00	.07	2168.69	.00	35.00
128.170	1800.00	52.01	14780.16	489.75	40.21	1003.00	.12	1309.27	.00	35.00
128.170	3000.00	52.02	14784.95	489.79	40.22	1003.00	.20	793.47	.01	35.00
128.170	5000.00	52.04	14798.25	489.92	40.24	1003.00	.34	484.20	.01	35.00
128.370	648.00	52.00	13682.93	517.97	40.00	1056.00	.05	3606.03	.00	35.00
128.370	1080.00	52.00	13683.60	517.98	40.00	1056.00	.08	2172.41	.00	35.00
128.370	1800.00	52.01	13685.48	518.00	40.01	1056.00	.13	1311.50	.00	35.00

128.370	3000.00	52.02	13690.67	518.07	40.02	1056.00	.22	794.80	.01	35.00
128.370	5000.00	52.04	13705.08	518.25	40.04	1056.00	.36	485.00	.01	35.00
128.780	648.00	52.00	15350.65	584.38	36.10	2164.00	.04	3620.27	.00	35.00
128.780	1080.00	52.00	15351.44	584.42	36.10	2164.00	.07	2180.96	.00	35.00
128.780	1800.00	52.01	15353.64	584.53	36.11	2164.00	.12	1316.63	.00	35.00
128.780	3000.00	52.02	15359.72	584.84	36.12	2164.00	.20	797.88	.01	35.00
128.780	5000.00	52.05	15376.62	585.70	36.15	2164.00	.33	486.85	.01	35.00
128.980	648.00	52.00	14280.87	529.04	40.90	1056.00	.05	3626.74	.00	35.00
128.980	1080.00	52.00	14281.60	529.08	40.90	1056.00	.08	2184.83	.00	35.00
128.980	1800.00	52.01	14283.66	529.20	40.91	1056.00	.13	1318.96	.00	35.00
128.980	3000.00	52.02	14289.34	529.53	40.92	1056.00	.21	799.28	.01	35.00
128.980	5000.00	52.05	14305.14	530.46	40.95	1056.00	.35	487.69	.01	35.00
129.080	648.00	52.00	13211.90	462.27	45.20	528.00	.05	3629.73	.00	35.00
129.080	1080.00	52.00	13212.54	462.27	45.20	528.00	.08	2186.63	.00	35.00
129.080	1800.00	52.01	13214.35	462.27	45.21	528.00	.14	1320.04	.00	35.00
129.080	3000.00	52.02	13219.33	462.28	45.22	528.00	.23	799.93	.01	35.00
129.080	5000.00	52.05	13233.17	462.29	45.25	528.00	.38	488.08	.01	35.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	129.280	648.00	52.00	13113.67	435.53	49.90	1056.00	.05	3635.66	.00	35.00
	129.280	1080.00	52.00	13114.29	435.55	49.90	1056.00	.08	2190.19	.00	35.00
	129.280	1800.00	52.01	13116.02	435.59	49.91	1056.00	.14	1322.17	.00	35.00
	129.280	3000.00	52.02	13120.79	435.70	49.92	1056.00	.23	801.21	.01	35.00
	129.280	5000.00	52.05	13134.06	436.02	49.95	1056.00	.38	488.85	.01	35.00
	129.480	648.00	52.00	13808.95	486.04	39.10	1056.00	.05	3641.92	.00	35.00
	129.480	1080.00	52.00	13809.65	486.04	39.10	1056.00	.08	2193.94	.00	35.00
	129.480	1800.00	52.01	13811.62	486.05	39.11	1056.00	.13	1324.42	.00	35.00
	129.480	3000.00	52.02	13817.06	486.08	39.12	1056.00	.22	802.56	.01	35.00
	129.480	5000.00	52.05	13832.15	486.17	39.15	1056.00	.36	489.66	.01	35.00
	129.680	648.00	52.00	13201.04	480.99	43.00	1056.00	.05	3647.89	.00	35.00
	129.680	1080.00	52.00	13201.75	480.99	43.00	1056.00	.08	2197.53	.00	35.00
	129.680	1800.00	52.01	13203.74	480.99	43.01	1056.00	.14	1326.58	.00	35.00
	129.680	3000.00	52.02	13209.25	481.00	43.02	1056.00	.23	803.85	.01	35.00
	129.680	5000.00	52.05	13224.54	481.03	43.05	1056.00	.38	490.43	.01	35.00
*	129.880	648.00	52.00	17523.64	422.32	68.10	1056.00	.04	3655.82	.00	35.00
*	129.880	1080.00	52.00	17524.28	422.32	68.10	1056.00	.06	2202.29	.00	35.00
*	129.880	1800.00	52.01	17526.06	422.32	68.11	1056.00	.10	1329.43	.00	35.00
*	129.880	3000.00	52.02	17530.98	422.33	68.12	1056.00	.17	805.56	.00	35.00
*	129.880	5000.00	52.05	17544.65	422.35	68.15	1056.00	.28	491.46	.01	35.00
	130.080	648.00	52.00	19575.58	703.93	50.10	1056.00	.03	3664.68	.00	35.00
	130.080	1080.00	52.00	19576.67	703.93	50.10	1056.00	.06	2207.60	.00	35.00
	130.080	1800.00	52.01	19579.72	703.95	50.11	1056.00	.09	1332.62	.00	35.00

130.080	3000.00	52.02	19588.15	703.99	50.12	1056.00	.15	807.48	.01	35.00
130.080	5000.00	52.05	19611.54	704.10	50.15	1056.00	.25	492.61	.01	35.00
130.280	648.00	52.00	14668.12	505.56	42.20	1056.00	.04	3671.32	.00	35.00
130.280	1080.00	52.00	14668.91	505.57	42.20	1056.00	.07	2211.59	.00	35.00
130.280	1800.00	52.01	14671.12	505.60	42.21	1056.00	.12	1335.01	.00	35.00
130.280	3000.00	52.02	14677.22	505.68	42.22	1056.00	.20	808.92	.01	35.00
130.280	5000.00	52.05	14694.15	505.91	42.25	1056.00	.34	493.48	.01	35.00
130.480	648.00	52.00	13880.53	520.46	37.70	1056.00	.05	3677.61	.00	35.00
130.480	1080.00	52.00	13881.34	520.47	37.70	1056.00	.08	2215.36	.00	35.00
130.480	1800.00	52.01	13883.63	520.49	37.71	1056.00	.13	1337.28	.00	35.00
130.480	3000.00	52.02	13889.94	520.55	37.72	1056.00	.22	810.27	.01	35.00
130.480	5000.00	52.05	13907.45	520.72	37.75	1056.00	.36	494.29	.01	35.00
130.650	648.00	52.00	14093.65	518.90	38.70	897.00	.05	3683.03	.00	35.00
130.650	1080.00	52.00	14094.47	518.92	38.70	897.00	.08	2218.61	.00	35.00
130.650	1800.00	52.01	14096.79	518.96	38.71	897.00	.13	1339.23	.00	35.00
130.650	3000.00	52.02	14103.18	519.07	38.72	897.00	.21	811.44	.01	35.00
130.650	5000.00	52.05	14120.93	519.37	38.75	897.00	.35	494.99	.01	35.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	130.800	648.00	52.00	13718.54	483.82	38.80	792.00	.05	3687.68	.00	35.00
	130.800	1080.00	52.00	13719.32	483.83	38.80	792.00	.08	2221.41	.00	35.00
	130.800	1800.00	52.01	13721.52	483.88	38.81	792.00	.13	1340.91	.00	35.00
	130.800	3000.00	52.02	13727.57	483.99	38.82	792.00	.22	812.45	.01	35.00
	130.800	5000.00	52.05	13744.38	484.32	38.85	792.00	.36	495.60	.01	35.00
	131.000	648.00	52.00	13057.04	535.51	36.20	1056.00	.05	3693.60	.00	35.00
	131.000	1080.00	52.00	13057.91	535.51	36.20	1056.00	.08	2224.95	.00	35.00
	131.000	1800.00	52.01	13060.38	535.53	36.21	1056.00	.14	1343.03	.00	35.00
	131.000	3000.00	52.02	13067.18	535.57	36.22	1056.00	.23	813.73	.01	35.00
	131.000	5000.00	52.06	13086.06	535.68	36.26	1056.00	.38	496.37	.01	35.00
*	131.200	648.00	52.00	26048.66	620.80	78.90	1056.00	.02	3705.39	.00	35.00
*	131.200	1080.00	52.00	26049.69	620.82	78.90	1056.00	.04	2232.03	.00	35.00
*	131.200	1800.00	52.01	26052.61	620.88	78.91	1056.00	.07	1347.28	.00	35.00
*	131.200	3000.00	52.02	26060.64	621.05	78.92	1056.00	.12	816.28	.00	35.00
*	131.200	5000.00	52.06	26082.98	621.51	78.96	1056.00	.19	497.90	.01	35.00
*	132.000	648.00	52.00	13284.65	505.75	37.90	4224.00	.05	3729.44	.00	35.00
*	132.000	1080.00	52.00	13285.55	505.77	37.90	4224.00	.08	2246.46	.00	35.00
*	132.000	1800.00	52.01	13288.09	505.83	37.91	4224.00	.14	1355.94	.00	35.00
*	132.000	3000.00	52.02	13295.11	506.01	37.92	4224.00	.23	821.48	.01	35.00
*	132.000	5000.00	52.06	13314.58	506.50	37.96	4224.00	.38	501.02	.01	35.00
	132.180	648.00	52.00	14073.34	577.73	36.00	950.00	.05	3735.17	.00	35.00
	132.180	1080.00	52.00	14074.34	577.78	36.00	950.00	.08	2249.90	.00	35.00
	132.180	1800.00	52.01	14077.15	577.90	36.01	950.00	.13	1358.00	.00	35.00

132.180	3000.00	52.02	14084.88	578.24	36.02	950.00	.21	822.72	.01	35.00
132.180	5000.00	52.06	14106.38	579.17	36.06	950.00	.35	501.77	.01	35.00
132.380	648.00	52.00	13920.47	612.54	38.10	1056.00	.05	3741.47	.00	35.00
132.380	1080.00	52.00	13921.56	612.55	38.10	1056.00	.08	2253.68	.00	35.00
132.380	1800.00	52.01	13924.62	612.57	38.11	1056.00	.13	1360.27	.00	35.00
132.380	3000.00	52.02	13933.07	612.63	38.12	1056.00	.22	824.08	.01	35.00
132.380	5000.00	52.06	13956.52	612.78	38.16	1056.00	.36	502.59	.01	35.00
132.570	648.00	52.00	12966.61	438.55	45.10	1003.00	.05	3747.05	.00	35.00
132.570	1080.00	52.00	12967.40	438.57	45.10	1003.00	.08	2257.03	.00	35.00
132.570	1800.00	52.01	12969.63	438.61	45.11	1003.00	.14	1362.28	.00	35.00
132.570	3000.00	52.02	12975.79	438.71	45.12	1003.00	.23	825.28	.01	35.00
132.570	5000.00	52.06	12992.90	439.02	45.16	1003.00	.38	503.31	.01	35.00
132.760	648.00	52.00	14566.48	472.20	50.20	1003.00	.04	3753.31	.00	35.00
132.760	1080.00	52.00	14567.35	472.22	50.20	1003.00	.07	2260.78	.00	35.00
132.760	1800.00	52.01	14569.79	472.27	50.21	1003.00	.12	1364.54	.00	35.00
132.760	3000.00	52.02	14576.50	472.41	50.22	1003.00	.21	826.64	.01	35.00
132.760	5000.00	52.06	14595.15	472.79	50.26	1003.00	.34	504.12	.01	35.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
132.940	648.00	52.00	12816.41	413.28	51.00	950.00	.05	3758.53	.00	35.00
132.940	1080.00	52.00	12817.18	413.29	51.00	950.00	.08	2263.92	.00	35.00
132.940	1800.00	52.01	12819.35	413.31	51.01	950.00	.14	1366.42	.00	35.00
132.940	3000.00	52.02	12825.34	413.37	51.02	950.00	.23	827.77	.01	35.00
132.940	5000.00	52.06	12841.94	413.55	51.06	950.00	.39	504.80	.01	35.00
133.140	648.00	52.00	13122.40	462.36	39.00	1056.00	.05	3764.47	.00	35.00
133.140	1080.00	52.00	13123.26	462.37	39.00	1056.00	.08	2267.48	.00	35.00
133.140	1800.00	52.01	13125.71	462.39	39.01	1056.00	.14	1368.55	.00	35.00
133.140	3000.00	52.02	13132.45	462.46	39.02	1056.00	.23	829.05	.01	35.00
133.140	5000.00	52.06	13151.15	462.67	39.06	1056.00	.38	505.57	.01	35.00
133.320	648.00	52.00	12003.95	490.28	31.10	950.00	.05	3769.36	.00	35.00
133.320	1080.00	52.00	12004.89	490.30	31.10	950.00	.09	2270.41	.00	35.00
133.320	1800.00	52.01	12007.53	490.34	31.11	950.00	.15	1370.32	.01	35.00
133.320	3000.00	52.02	12014.82	490.46	31.12	950.00	.25	830.11	.01	35.00
133.320	5000.00	52.06	12035.02	490.80	31.16	950.00	.42	506.21	.01	35.00
133.510	648.00	52.00	14222.36	552.22	35.00	1003.00	.05	3775.47	.00	35.00
133.510	1080.00	52.00	14223.44	552.24	35.00	1003.00	.08	2274.08	.00	35.00
133.510	1800.00	52.01	14226.46	552.29	35.01	1003.00	.13	1372.52	.00	35.00
133.510	3000.00	52.02	14234.80	552.43	35.02	1003.00	.21	831.43	.01	35.00
133.510	5000.00	52.07	14257.94	552.81	35.07	1003.00	.35	507.00	.01	35.00
133.700	648.00	52.00	14420.29	578.41	33.90	1003.00	.04	3781.68	.00	35.00
133.700	1080.00	52.00	14421.45	578.43	33.90	1003.00	.07	2277.80	.00	35.00
133.700	1800.00	52.01	14424.72	578.49	33.91	1003.00	.12	1374.75	.00	35.00

133.700	3000.00	52.02	14433.71	578.64	33.92	1003.00	.21	832.77	.01	35.00
133.700	5000.00	52.07	14458.66	579.07	33.97	1003.00	.35	507.81	.01	35.00
133.890	648.00	52.00	14710.40	445.81	42.80	1003.00	.04	3788.00	.00	35.00
133.890	1080.00	52.00	14711.31	445.83	42.80	1003.00	.07	2281.60	.00	35.00
133.890	1800.00	52.01	14713.85	445.88	42.81	1003.00	.12	1377.03	.00	35.00
133.890	3000.00	52.02	14720.86	446.01	42.82	1003.00	.20	834.14	.01	35.00
133.890	5000.00	52.07	14740.31	446.39	42.87	1003.00	.34	508.63	.01	35.00
134.160	648.00	52.00	14173.65	469.99	42.00	1425.00	.05	3796.66	.00	35.00
134.160	1080.00	52.00	14174.62	470.00	42.00	1425.00	.08	2286.79	.00	35.00
134.160	1800.00	52.01	14177.34	470.04	42.01	1425.00	.13	1380.15	.00	35.00
134.160	3000.00	52.02	14184.84	470.15	42.02	1425.00	.21	836.01	.01	35.00
134.160	5000.00	52.07	14205.66	470.45	42.07	1425.00	.35	509.75	.01	35.00
134.350	648.00	52.00	13531.43	477.39	48.10	1003.00	.05	3802.48	.00	35.00
134.350	1080.00	52.00	13532.42	477.41	48.10	1003.00	.08	2290.28	.00	35.00
134.350	1800.00	52.01	13535.20	477.47	48.11	1003.00	.13	1382.24	.00	35.00
134.350	3000.00	52.03	13542.88	477.63	48.13	1003.00	.22	837.27	.01	35.00
134.350	5000.00	52.07	13564.17	478.08	48.17	1003.00	.37	510.51	.01	35.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	134.540	648.00	52.00	14854.06	719.37	35.90	1003.00	.04	3808.86	.00	35.00
	134.540	1080.00	52.00	14855.56	719.39	35.90	1003.00	.07	2294.12	.00	35.00
	134.540	1800.00	52.01	14859.81	719.44	35.91	1003.00	.12	1384.54	.00	35.00
	134.540	3000.00	52.03	14871.51	719.60	35.93	1003.00	.20	838.65	.01	35.00
	134.540	5000.00	52.07	14903.96	720.03	35.97	1003.00	.34	511.34	.01	35.00
	134.920	648.00	52.00	13690.69	550.75	34.10	2006.00	.05	3820.63	.00	35.00
	134.920	1080.00	52.00	13691.89	550.77	34.10	2006.00	.08	2301.18	.00	35.00
	134.920	1800.00	52.01	13695.25	550.81	34.11	2006.00	.13	1388.78	.00	35.00
	134.920	3000.00	52.03	13704.54	550.92	34.13	2006.00	.22	841.19	.01	35.00
	134.920	5000.00	52.07	13730.31	551.24	34.17	2006.00	.36	512.87	.01	35.00
	134.980	648.00	52.00	17234.56	615.67	62.30	316.00	.04	3822.97	.00	35.00
	134.980	1080.00	52.00	17235.90	615.69	62.30	316.00	.06	2302.58	.00	35.00
	134.980	1800.00	52.01	17239.68	615.73	62.31	316.00	.10	1389.62	.00	35.00
	134.980	3000.00	52.03	17250.10	615.85	62.33	316.00	.17	841.70	.01	35.00
	134.980	5000.00	52.07	17279.01	616.19	62.37	316.00	.29	513.17	.01	35.00
*	135.090	648.00	52.00	14709.12	813.96	31.00	580.00	.04	3826.63	.00	35.00
*	135.090	1080.00	52.00	14710.94	813.99	31.00	580.00	.07	2304.78	.00	35.00
*	135.090	1800.00	52.01	14716.01	814.07	31.01	580.00	.12	1390.94	.01	35.00
*	135.090	3000.00	52.03	14730.02	814.28	31.03	580.00	.20	842.49	.01	35.00
*	135.090	5000.00	52.07	14768.87	814.87	31.07	580.00	.34	513.65	.01	35.00
	135.280	648.00	52.00	12735.14	502.58	37.10	1003.00	.05	3832.10	.00	35.00
	135.280	1080.00	52.00	12736.27	502.62	37.10	1003.00	.08	2308.06	.00	35.00
	135.280	1800.00	52.01	12739.43	502.73	37.11	1003.00	.14	1392.91	.00	35.00

135.280	3000.00	52.03	12748.16	503.04	37.13	1003.00	.24	843.67	.01	35.00
135.280	5000.00	52.08	12772.38	503.89	37.18	1003.00	.39	514.36	.01	35.00
135.470	648.00	52.00	12476.43	418.90	50.00	1003.00	.05	3837.47	.00	35.00
135.470	1080.00	52.00	12477.39	418.93	50.00	1003.00	.09	2311.28	.00	35.00
135.470	1800.00	52.01	12480.06	418.99	50.01	1003.00	.14	1394.84	.00	35.00
135.470	3000.00	52.03	12487.45	419.17	50.03	1003.00	.24	844.83	.01	35.00
135.470	5000.00	52.08	12507.93	419.67	50.08	1003.00	.40	515.06	.01	35.00
135.660	648.00	52.00	12555.31	466.84	41.90	1003.00	.05	3842.86	.00	35.00
135.660	1080.00	52.00	12556.39	466.86	41.90	1003.00	.09	2314.52	.00	35.00
135.660	1800.00	52.01	12559.40	466.91	41.91	1003.00	.14	1396.79	.00	35.00
135.660	3000.00	52.03	12567.73	467.06	41.93	1003.00	.24	846.00	.01	35.00
135.660	5000.00	52.08	12590.81	467.47	41.98	1003.00	.40	515.76	.01	35.00
135.850	648.00	52.00	13089.19	460.03	41.60	1003.00	.05	3848.49	.00	35.00
135.850	1080.00	52.00	13090.27	460.04	41.60	1003.00	.08	2317.90	.00	35.00
135.850	1800.00	52.01	13093.28	460.07	41.61	1003.00	.14	1398.81	.00	35.00
135.850	3000.00	52.03	13101.60	460.16	41.63	1003.00	.23	847.22	.01	35.00
135.850	5000.00	52.08	13124.66	460.41	41.68	1003.00	.38	516.49	.01	35.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
136.030	648.00	52.00	12787.35	477.28	39.90	950.00	.05	3853.70	.00	35.00
136.030	1080.00	52.00	12788.49	477.29	39.90	950.00	.08	2321.02	.00	35.00
136.030	1800.00	52.01	12791.65	477.32	39.91	950.00	.14	1400.69	.00	35.00
136.030	3000.00	52.03	12800.41	477.40	39.93	950.00	.23	848.34	.01	35.00
136.030	5000.00	52.08	12824.69	477.62	39.98	950.00	.39	517.17	.01	35.00
136.220	648.00	52.00	13129.83	446.69	44.90	1003.00	.05	3859.34	.00	35.00
136.220	1080.00	52.00	13130.91	446.71	44.90	1003.00	.08	2324.41	.00	35.00
136.220	1800.00	52.01	13133.91	446.77	44.91	1003.00	.14	1402.72	.00	35.00
136.220	3000.00	52.03	13142.20	446.92	44.93	1003.00	.23	849.56	.01	35.00
136.220	5000.00	52.08	13165.20	447.36	44.98	1003.00	.38	517.90	.01	35.00
136.410	648.00	52.00	13574.96	526.30	49.90	1003.00	.05	3865.18	.00	35.00
136.410	1080.00	52.00	13576.25	526.32	49.90	1003.00	.08	2327.91	.00	35.00
136.410	1800.00	52.01	13579.84	526.38	49.91	1003.00	.13	1404.82	.00	35.00
136.410	3000.00	52.03	13589.74	526.56	49.93	1003.00	.22	850.82	.01	35.00
136.410	5000.00	52.08	13617.22	527.04	49.98	1003.00	.37	518.66	.01	35.00
136.600	648.00	52.00	13219.96	494.76	37.90	1003.00	.05	3870.87	.00	35.00
136.600	1080.00	52.00	13221.19	494.79	37.90	1003.00	.08	2331.32	.00	35.00
136.600	1800.00	52.01	13224.60	494.87	37.91	1003.00	.14	1406.87	.00	35.00
136.600	3000.00	52.03	13234.05	495.11	37.93	1003.00	.23	852.05	.01	35.00
136.600	5000.00	52.08	13260.23	495.75	37.98	1003.00	.38	519.40	.01	35.00
136.980	648.00	52.00	12335.78	484.46	45.90	2006.00	.05	3881.47	.00	35.00
136.980	1080.00	52.00	12337.01	484.47	45.90	2006.00	.09	2337.69	.00	35.00
136.980	1800.00	52.01	12340.44	484.52	45.91	2006.00	.15	1410.69	.01	35.00

136.980	3000.00	52.03	12349.91	484.64	45.93	2006.00	.24	854.35	.01	35.00
136.980	5000.00	52.08	12376.15	484.98	45.98	2006.00	.40	520.78	.01	35.00
137.260	648.00	52.00	12069.73	417.38	42.00	1478.00	.05	3889.12	.00	35.00
137.260	1080.00	52.00	12070.81	417.39	42.00	1478.00	.09	2342.28	.00	35.00
137.260	1800.00	52.01	12073.81	417.43	42.01	1478.00	.15	1413.44	.00	35.00
137.260	3000.00	52.03	12082.14	417.53	42.03	1478.00	.25	856.00	.01	35.00
137.260	5000.00	52.09	12105.19	417.81	42.09	1478.00	.41	521.77	.01	35.00
137.450	648.00	52.00	11906.65	435.34	42.00	1003.00	.05	3894.24	.00	35.00
137.450	1080.00	52.00	11907.79	435.36	42.00	1003.00	.09	2345.35	.00	35.00
137.450	1800.00	52.01	11910.97	435.41	42.01	1003.00	.15	1415.29	.01	35.00
137.450	3000.00	52.03	11919.77	435.54	42.03	1003.00	.25	857.11	.01	35.00
137.450	5000.00	52.09	11944.14	435.92	42.09	1003.00	.42	522.44	.01	35.00
137.630	648.00	52.00	12348.66	460.81	43.20	950.00	.05	3899.27	.00	35.00
137.630	1080.00	52.00	12349.89	460.84	43.20	950.00	.09	2348.37	.00	35.00
137.630	1800.00	52.01	12353.30	460.94	43.21	950.00	.15	1417.10	.00	35.00
137.630	3000.00	52.03	12362.72	461.20	43.23	950.00	.24	858.19	.01	35.00
137.630	5000.00	52.09	12388.85	461.92	43.29	950.00	.40	523.09	.01	35.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
137.830	648.00	52.00	12400.03	468.31	41.00	1056.00	.05	3904.88	.00	35.00
137.830	1080.00	52.00	12401.29	468.32	41.00	1056.00	.09	2351.73	.00	35.00
137.830	1800.00	52.01	12404.81	468.36	41.01	1056.00	.15	1419.12	.00	35.00
137.830	3000.00	52.03	12414.55	468.48	41.03	1056.00	.24	859.41	.01	35.00
137.830	5000.00	52.09	12441.53	468.82	41.09	1056.00	.40	523.82	.01	35.00
138.050	648.00	52.00	15568.10	573.03	33.10	1161.00	.04	3912.63	.00	35.00
138.050	1080.00	52.00	15569.67	573.04	33.10	1161.00	.07	2356.38	.00	35.00
138.050	1800.00	52.01	15574.05	573.08	33.11	1161.00	.12	1421.91	.00	35.00
138.050	3000.00	52.03	15586.15	573.20	33.13	1161.00	.19	861.08	.01	35.00
138.050	5000.00	52.09	15619.66	573.51	33.19	1161.00	.32	524.83	.01	35.00
138.270	648.00	52.00	13867.08	554.52	38.20	1161.00	.05	3919.53	.00	35.00
138.270	1080.00	52.00	13868.63	554.55	38.20	1161.00	.08	2360.52	.00	35.00
138.270	1800.00	52.01	13872.95	554.64	38.21	1161.00	.13	1424.40	.00	35.00
138.270	3000.00	52.03	13884.89	554.87	38.23	1161.00	.22	862.58	.01	35.00
138.270	5000.00	52.09	13917.97	555.52	38.29	1161.00	.36	525.73	.01	35.00
138.470	648.00	52.00	12402.30	538.31	44.10	1056.00	.05	3925.15	.00	35.00
138.470	1080.00	52.00	12403.81	538.33	44.10	1056.00	.09	2363.89	.00	35.00
138.470	1800.00	52.01	12408.02	538.40	44.11	1056.00	.15	1426.42	.01	35.00
138.470	3000.00	52.03	12419.67	538.58	44.13	1056.00	.24	863.79	.01	35.00
138.470	5000.00	52.09	12451.95	539.10	44.19	1056.00	.40	526.46	.01	35.00
138.660	648.00	52.00	13330.54	464.91	38.20	1003.00	.05	3930.88	.00	35.00
138.660	1080.00	52.00	13331.86	464.93	38.20	1003.00	.08	2367.33	.00	35.00
138.660	1800.00	52.01	13335.54	464.98	38.21	1003.00	.13	1428.48	.00	35.00

138.660	3000.00	52.03	13345.74	465.14	38.23	1003.00	.22	865.03	.01	35.00
138.660	5000.00	52.10	13373.97	465.56	38.30	1003.00	.37	527.20	.01	35.00
139.010	648.00	52.00	12083.25	476.85	39.00	1847.00	.05	3940.44	.00	35.00
139.010	1080.00	52.00	12084.64	476.88	39.00	1847.00	.09	2373.07	.00	35.00
139.010	1800.00	52.01	12088.53	476.97	39.01	1847.00	.15	1431.93	.01	35.00
139.010	3000.00	52.03	12099.25	477.21	39.03	1847.00	.25	867.10	.01	35.00
139.010	5000.00	52.10	12128.96	477.87	39.10	1847.00	.41	528.45	.01	35.00
139.190	648.00	52.00	12861.28	514.04	34.30	950.00	.05	3945.68	.00	35.00
139.190	1080.00	52.00	12862.79	514.07	34.30	950.00	.08	2376.22	.00	35.00
139.190	1800.00	52.01	12867.00	514.15	34.31	950.00	.14	1433.81	.00	35.00
139.190	3000.00	52.04	12878.62	514.38	34.34	950.00	.23	868.23	.01	35.00
139.190	5000.00	52.10	12910.84	515.02	34.40	950.00	.39	529.13	.01	35.00
139.380	648.00	52.00	12676.17	498.41	37.20	1003.00	.05	3951.13	.00	35.00
139.380	1080.00	52.00	12677.65	498.44	37.20	1003.00	.09	2379.49	.00	35.00
139.380	1800.00	52.01	12681.81	498.52	37.21	1003.00	.14	1435.78	.00	35.00
139.380	3000.00	52.04	12693.27	498.75	37.24	1003.00	.24	869.41	.01	35.00
139.380	5000.00	52.10	12725.06	499.40	37.30	1003.00	.39	529.84	.01	35.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
139.560	648.00	52.00	12464.30	442.98	44.00	950.00	.05	3956.21	.00	35.00
139.560	1080.00	52.00	12465.64	442.99	44.00	950.00	.09	2382.53	.00	35.00
139.560	1800.00	52.01	12469.37	443.03	44.01	950.00	.14	1437.60	.00	35.00
139.560	3000.00	52.04	12479.66	443.13	44.04	950.00	.24	870.51	.01	35.00
139.560	5000.00	52.10	12508.17	443.40	44.10	950.00	.40	530.50	.01	35.00
139.750	648.00	52.00	13328.04	443.73	48.00	1003.00	.05	3961.94	.00	35.00
139.750	1080.00	52.00	13329.39	443.74	48.00	1003.00	.08	2385.97	.00	35.00
139.750	1800.00	52.01	13333.16	443.78	48.01	1003.00	.14	1439.67	.00	35.00
139.750	3000.00	52.04	13343.58	443.88	48.04	1003.00	.22	871.75	.01	35.00
139.750	5000.00	52.10	13372.43	444.15	48.10	1003.00	.37	531.24	.01	35.00
139.940	648.00	52.00	14417.68	535.42	51.20	1003.00	.04	3968.14	.00	35.00
139.940	1080.00	52.00	14419.33	535.44	51.20	1003.00	.07	2389.69	.00	35.00
139.940	1800.00	52.01	14423.94	535.49	51.21	1003.00	.12	1441.90	.00	35.00
139.940	3000.00	52.04	14436.65	535.63	51.24	1003.00	.21	873.09	.01	35.00
139.940	5000.00	52.10	14471.87	536.00	51.30	1003.00	.35	532.05	.01	35.00
140.030	648.00	52.00	15103.49	739.45	29.10	475.00	.04	3971.21	.00	35.00
140.030	1080.00	52.00	15105.79	739.47	29.10	475.00	.07	2391.54	.00	35.00
140.030	1800.00	52.01	15112.19	739.54	29.11	475.00	.12	1443.01	.00	35.00
140.030	3000.00	52.04	15129.85	739.71	29.14	475.00	.20	873.75	.01	35.00
140.030	5000.00	52.10	15178.79	740.21	29.20	475.00	.33	532.45	.01	35.00
140.410	648.00	52.00	13138.87	577.72	37.10	2006.00	.05	3982.51	.00	35.00
140.410	1080.00	52.00	13140.70	577.80	37.10	2006.00	.08	2398.32	.00	35.00
140.410	1800.00	52.01	13145.80	578.02	37.11	2006.00	.14	1447.08	.01	35.00

140.410	3000.00	52.04	13159.91	578.63	37.14	2006.00	.23	876.20	.01	35.00
140.410	5000.00	52.11	13199.03	580.30	37.21	2006.00	.38	533.92	.01	35.00
140.600	648.00	52.00	13869.77	528.23	35.90	1003.00	.05	3988.47	.00	35.00
140.600	1080.00	52.01	13871.47	528.25	35.91	1003.00	.08	2401.89	.00	35.00
140.600	1800.00	52.01	13876.18	528.30	35.91	1003.00	.13	1449.23	.00	35.00
140.600	3000.00	52.04	13889.22	528.46	35.94	1003.00	.22	877.49	.01	35.00
140.600	5000.00	52.11	13925.32	528.89	36.01	1003.00	.36	534.70	.01	35.00
140.790	648.00	52.00	13500.71	497.15	46.10	1003.00	.05	3994.28	.00	35.00
140.790	1080.00	52.01	13502.32	497.19	46.11	1003.00	.08	2405.38	.00	35.00
140.790	1800.00	52.01	13506.81	497.31	46.11	1003.00	.13	1451.32	.00	35.00
140.790	3000.00	52.04	13519.24	497.63	46.14	1003.00	.22	878.74	.01	35.00
140.790	5000.00	52.11	13553.65	498.53	46.21	1003.00	.37	535.45	.01	35.00
140.980	648.00	52.00	12968.84	490.39	34.20	1003.00	.05	3999.85	.00	35.00
140.980	1080.00	52.01	12970.45	490.42	34.21	1003.00	.08	2408.72	.00	35.00
140.980	1800.00	52.01	12974.91	490.52	34.21	1003.00	.14	1453.32	.00	35.00
140.980	3000.00	52.04	12987.25	490.78	34.24	1003.00	.23	879.95	.01	35.00
140.980	5000.00	52.11	13021.40	491.53	34.31	1003.00	.38	536.18	.01	35.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
*	141.200	648.00	52.00	10366.02	526.34	29.10	1161.00	.06	4005.01	.00	35.00
*	141.200	1080.00	52.01	10367.76	526.36	29.11	1161.00	.10	2411.82	.00	35.00
*	141.200	1800.00	52.01	10372.60	526.43	29.11	1161.00	.17	1455.18	.01	35.00
*	141.200	3000.00	52.04	10385.97	526.62	29.14	1161.00	.29	881.07	.01	35.00
*	141.200	5000.00	52.11	10422.99	527.15	29.21	1161.00	.48	536.85	.02	35.00
	141.770	648.00	52.00	11834.00	528.35	30.00	3008.00	.05	4020.27	.00	35.00
	141.770	1080.00	52.01	11835.82	528.37	30.01	3008.00	.09	2420.98	.00	35.00
	141.770	1800.00	52.02	11840.90	528.43	30.02	3008.00	.15	1460.68	.01	35.00
	141.770	3000.00	52.04	11854.94	528.61	30.04	3008.00	.25	884.37	.01	35.00
	141.770	5000.00	52.12	11893.78	529.36	30.12	3008.00	.42	538.84	.02	35.00
	141.960	648.00	52.00	11663.47	527.06	31.10	1003.00	.06	4025.29	.00	35.00
	141.960	1080.00	52.01	11665.35	527.08	31.11	1003.00	.09	2423.99	.00	35.00
	141.960	1800.00	52.02	11670.57	527.16	31.12	1003.00	.15	1462.49	.01	35.00
	141.960	3000.00	52.04	11685.00	527.36	31.14	1003.00	.26	885.45	.01	35.00
	141.960	5000.00	52.12	11724.93	527.93	31.22	1003.00	.43	539.49	.02	35.00
	142.070	648.00	52.00	11704.38	481.71	35.00	580.00	.06	4028.20	.00	35.00
	142.070	1080.00	52.01	11706.10	481.74	35.01	580.00	.09	2425.73	.00	35.00
	142.070	1800.00	52.02	11710.89	481.80	35.02	580.00	.15	1463.53	.01	35.00
	142.070	3000.00	52.04	11724.14	481.97	35.04	580.00	.26	886.08	.01	35.00
	142.070	5000.00	52.12	11760.78	482.51	35.12	580.00	.43	539.87	.02	35.00
	142.260	648.00	52.00	11372.51	516.16	33.80	1003.00	.06	4033.09	.00	35.00
	142.260	1080.00	52.01	11374.37	516.18	33.81	1003.00	.09	2428.67	.00	35.00
	142.260	1800.00	52.02	11379.58	516.25	33.82	1003.00	.16	1465.30	.01	35.00

142.260	3000.00	52.04	11393.96	516.44	33.84	1003.00	.26	887.14	.01	35.00
142.260	5000.00	52.12	11433.73	516.97	33.92	1003.00	.44	540.51	.02	35.00
142.640	648.00	52.00	11660.36	500.81	28.90	2006.00	.06	4043.11	.00	35.00
142.640	1080.00	52.01	11662.22	500.83	28.91	2006.00	.09	2434.68	.00	35.00
142.640	1800.00	52.02	11667.40	500.90	28.92	2006.00	.15	1468.91	.01	35.00
142.640	3000.00	52.04	11681.72	501.09	28.94	2006.00	.26	889.31	.01	35.00
142.640	5000.00	52.12	11721.33	501.63	29.02	2006.00	.43	541.81	.02	35.00
142.810	648.00	52.00	12655.94	495.07	33.10	897.00	.05	4047.98	.00	35.00
142.810	1080.00	52.01	12657.80	495.09	33.11	897.00	.09	2437.60	.00	35.00
142.810	1800.00	52.02	12663.00	495.17	33.12	897.00	.14	1470.66	.00	35.00
142.810	3000.00	52.05	12677.35	495.37	33.15	897.00	.24	890.36	.01	35.00
142.810	5000.00	52.13	12717.04	495.93	33.23	897.00	.39	542.45	.01	35.00
142.940	648.00	52.00	12791.42	464.68	37.20	686.00	.05	4051.74	.00	35.00
142.940	1080.00	52.01	12793.19	464.70	37.21	686.00	.08	2439.86	.00	35.00
142.940	1800.00	52.02	12798.11	464.76	37.22	686.00	.14	1472.02	.00	35.00
142.940	3000.00	52.05	12811.70	464.93	37.25	686.00	.23	891.18	.01	35.00
142.940	5000.00	52.13	12849.29	465.39	37.33	686.00	.39	542.94	.01	35.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
143.170	648.00	52.00	11294.32	410.45	41.90	1214.00	.06	4057.62	.00	35.00
143.170	1080.00	52.01	11295.89	410.47	41.91	1214.00	.10	2443.39	.00	35.00
143.170	1800.00	52.02	11300.28	410.54	41.92	1214.00	.16	1474.13	.01	35.00
143.170	3000.00	52.05	11312.40	410.71	41.95	1214.00	.27	892.45	.01	35.00
143.170	5000.00	52.13	11345.93	411.19	42.03	1214.00	.44	543.70	.01	35.00
143.350	648.00	52.00	11571.32	425.24	42.00	950.00	.06	4062.33	.00	35.00
143.350	1080.00	52.01	11572.96	425.25	42.01	950.00	.09	2446.22	.00	35.00
143.350	1800.00	52.02	11577.53	425.30	42.02	950.00	.16	1475.83	.01	35.00
143.350	3000.00	52.05	11590.17	425.42	42.05	950.00	.26	893.47	.01	35.00
143.350	5000.00	52.13	11625.09	425.75	42.13	950.00	.43	544.31	.01	35.00
143.540	648.00	52.00	12335.11	492.50	32.90	1003.00	.05	4067.64	.00	35.00
143.540	1080.00	52.01	12337.05	492.53	32.91	1003.00	.09	2449.40	.00	35.00
143.540	1800.00	52.02	12342.40	492.62	32.92	1003.00	.15	1477.74	.01	35.00
143.540	3000.00	52.05	12357.23	492.85	32.95	1003.00	.24	894.62	.01	35.00
143.540	5000.00	52.13	12398.21	493.49	33.03	1003.00	.40	545.01	.01	35.00
143.920	648.00	52.00	13190.53	493.84	33.80	2006.00	.05	4078.98	.00	35.00
143.920	1080.00	52.01	13192.51	493.88	33.81	2006.00	.08	2456.20	.00	35.00
143.920	1800.00	52.02	13198.00	493.96	33.82	2006.00	.14	1481.83	.00	35.00
143.920	3000.00	52.05	13213.20	494.20	33.85	2006.00	.23	897.07	.01	35.00
143.920	5000.00	52.13	13255.21	494.86	33.93	2006.00	.38	546.48	.01	35.00
144.190	648.00	52.00	13697.19	494.56	34.90	1425.00	.05	4087.35	.00	35.00
144.190	1080.00	52.01	13699.19	494.59	34.91	1425.00	.08	2461.23	.00	35.00
144.190	1800.00	52.02	13704.77	494.67	34.92	1425.00	.13	1484.84	.00	35.00

144.190	3000.00	52.05	13720.18	494.88	34.95	1425.00	.22	898.88	.01	35.00
144.190	5000.00	52.13	13762.78	495.46	35.03	1425.00	.36	547.57	.01	35.00
144.380	648.00	52.00	12607.77	498.39	31.00	1003.00	.05	4092.77	.00	35.00
144.380	1080.00	52.01	12609.80	498.42	31.01	1003.00	.09	2464.48	.00	35.00
144.380	1800.00	52.02	12615.46	498.49	31.02	1003.00	.14	1486.79	.00	35.00
144.380	3000.00	52.05	12631.09	498.68	31.05	1003.00	.24	900.05	.01	35.00
144.380	5000.00	52.14	12674.29	499.20	31.14	1003.00	.39	548.28	.01	35.00
144.570	648.00	52.00	13522.16	561.16	38.90	1003.00	.05	4098.58	.00	35.00
144.570	1080.00	52.01	13524.46	561.21	38.91	1003.00	.08	2467.97	.00	35.00
144.570	1800.00	52.02	13530.87	561.32	38.92	1003.00	.13	1488.89	.00	35.00
144.570	3000.00	52.05	13548.59	561.64	38.95	1003.00	.22	901.31	.01	35.00
144.570	5000.00	52.14	13597.56	562.52	39.04	1003.00	.37	549.04	.01	35.00
144.760	648.00	52.00	14192.97	549.06	35.30	1003.00	.05	4104.68	.00	35.00
144.760	1080.00	52.01	14195.25	549.14	35.31	1003.00	.08	2471.63	.00	35.00
144.760	1800.00	52.02	14201.60	549.37	35.32	1003.00	.13	1491.08	.00	35.00
144.760	3000.00	52.05	14219.15	550.00	35.35	1003.00	.21	902.63	.01	35.00
144.760	5000.00	52.14	14267.72	551.75	35.44	1003.00	.35	549.83	.01	35.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
144.950	648.00	52.00	12501.01	536.85	28.90	1003.00	.05	4110.06	.00	35.00
144.950	1080.00	52.01	12503.25	536.90	28.91	1003.00	.09	2474.86	.00	35.00
144.950	1800.00	52.02	12509.50	537.02	28.92	1003.00	.14	1493.02	.01	35.00
144.950	3000.00	52.05	12526.79	537.36	28.95	1003.00	.24	903.80	.01	35.00
144.950	5000.00	52.14	12574.58	538.29	29.04	1003.00	.40	550.53	.01	35.00
145.130	648.00	52.00	13047.90	566.47	29.10	950.00	.05	4115.37	.00	35.00
145.130	1080.00	52.01	13050.29	566.50	29.11	950.00	.08	2478.04	.00	35.00
145.130	1800.00	52.02	13056.92	566.57	29.12	950.00	.14	1494.93	.01	35.00
145.130	3000.00	52.05	13075.26	566.75	29.15	950.00	.23	904.95	.01	35.00
145.130	5000.00	52.14	13125.92	567.27	29.24	950.00	.38	551.22	.01	35.00
145.320	648.00	52.00	13109.73	533.06	32.20	1003.00	.05	4121.01	.00	35.00
145.320	1080.00	52.01	13112.01	533.10	32.21	1003.00	.08	2481.43	.00	35.00
145.320	1800.00	52.02	13118.32	533.18	32.22	1003.00	.14	1496.97	.00	35.00
145.320	3000.00	52.05	13135.79	533.42	32.25	1003.00	.23	906.17	.01	35.00
145.320	5000.00	52.14	13184.05	534.08	32.34	1003.00	.38	551.96	.01	35.00
145.510	648.00	52.00	14075.11	543.45	38.10	1003.00	.05	4127.06	.00	35.00
145.510	1080.00	52.01	14077.45	543.48	38.11	1003.00	.08	2485.06	.00	35.00
145.510	1800.00	52.02	14083.93	543.57	38.12	1003.00	.13	1499.15	.00	35.00
145.510	3000.00	52.05	14101.88	543.80	38.15	1003.00	.21	907.48	.01	35.00
145.510	5000.00	52.14	14151.47	544.46	38.24	1003.00	.35	552.75	.01	35.00
145.700	648.00	52.00	13721.84	530.11	40.00	1003.00	.05	4132.96	.00	35.00
145.700	1080.00	52.01	13724.14	530.16	40.01	1003.00	.08	2488.60	.00	35.00
145.700	1800.00	52.02	13730.52	530.29	40.02	1003.00	.13	1501.27	.00	35.00

145.700	3000.00	52.05	13748.18	530.64	40.05	1003.00	.22	908.75	.01	35.00
145.700	5000.00	52.14	13796.99	531.61	40.14	1003.00	.36	553.52	.01	35.00
145.890	648.00	52.00	14447.09	482.68	43.10	1003.00	.04	4139.17	.00	35.00
145.890	1080.00	52.01	14449.19	482.72	43.11	1003.00	.07	2492.33	.00	35.00
145.890	1800.00	52.02	14455.04	482.84	43.12	1003.00	.12	1503.51	.00	35.00
145.890	3000.00	52.05	14471.21	483.16	43.15	1003.00	.21	910.10	.01	35.00
145.890	5000.00	52.14	14515.90	484.04	43.24	1003.00	.34	554.33	.01	35.00
146.080	648.00	52.00	14556.49	598.63	37.10	1003.00	.04	4145.43	.00	35.00
146.080	1080.00	52.01	14559.12	598.68	37.11	1003.00	.07	2496.08	.00	35.00
146.080	1800.00	52.02	14566.42	598.80	37.12	1003.00	.12	1505.76	.00	35.00
146.080	3000.00	52.05	14586.60	599.15	37.15	1003.00	.21	911.45	.01	35.00
146.080	5000.00	52.15	14642.38	600.10	37.25	1003.00	.34	555.14	.01	35.00
146.460	648.00	52.00	11591.10	514.51	29.00	2006.00	.06	4155.40	.00	35.00
146.460	1080.00	52.01	11593.38	514.53	29.01	2006.00	.09	2502.06	.00	35.00
146.460	1800.00	52.02	11599.73	514.57	29.02	2006.00	.16	1509.35	.01	35.00
146.460	3000.00	52.05	11617.27	514.70	29.05	2006.00	.26	913.61	.01	35.00
146.460	5000.00	52.15	11665.72	515.06	29.15	2006.00	.43	556.44	.02	35.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
146.650	648.00	52.00	10359.95	499.86	28.20	1003.00	.06	4159.85	.00	35.00
146.650	1080.00	52.01	10362.19	499.87	28.21	1003.00	.10	2504.74	.00	35.00
146.650	1800.00	52.02	10368.41	499.89	28.22	1003.00	.17	1510.96	.01	35.00
146.650	3000.00	52.05	10385.61	499.95	28.25	1003.00	.29	914.57	.01	35.00
146.650	5000.00	52.15	10433.08	500.11	28.35	1003.00	.48	557.02	.02	35.00
146.840	648.00	52.00	10730.72	484.63	29.00	1003.00	.06	4164.46	.00	35.00
146.840	1080.00	52.01	10732.91	484.65	29.01	1003.00	.10	2507.51	.00	35.00
146.840	1800.00	52.02	10739.03	484.73	29.02	1003.00	.17	1512.62	.01	35.00
146.840	3000.00	52.05	10755.94	484.93	29.05	1003.00	.28	915.57	.01	35.00
146.840	5000.00	52.15	10802.65	485.50	29.15	1003.00	.46	557.62	.02	35.00
147.030	648.00	52.00	12558.92	499.83	34.20	1003.00	.05	4169.86	.00	35.00
147.030	1080.00	52.01	12561.22	499.87	34.21	1003.00	.09	2510.75	.00	35.00
147.030	1800.00	52.02	12567.64	499.97	34.22	1003.00	.14	1514.57	.01	35.00
147.030	3000.00	52.06	12585.38	500.25	34.26	1003.00	.24	916.74	.01	35.00
147.030	5000.00	52.15	12634.37	501.04	34.35	1003.00	.40	558.33	.01	35.00
147.220	648.00	52.00	14867.87	721.60	30.10	1003.00	.04	4176.26	.00	35.00
147.220	1080.00	52.01	14871.25	721.70	30.11	1003.00	.07	2514.58	.00	35.00
147.220	1800.00	52.02	14880.63	721.95	30.12	1003.00	.12	1516.87	.00	35.00
147.220	3000.00	52.06	14906.58	722.67	30.16	1003.00	.20	918.13	.01	35.00
147.220	5000.00	52.16	14978.31	724.64	30.26	1003.00	.33	559.16	.01	35.00
* 147.410	648.00	52.00	15838.48	495.44	45.20	1003.00	.04	4183.07	.00	35.00
* 147.410	1080.00	52.01	15840.82	495.47	45.21	1003.00	.07	2518.67	.00	35.00
* 147.410	1800.00	52.02	15847.33	495.56	45.22	1003.00	.11	1519.32	.00	35.00

*	147.410	3000.00	52.06	15865.31	495.81	45.26	1003.00	.19	919.60	.01	35.00
*	147.410	5000.00	52.16	15914.96	496.49	45.36	1003.00	.31	560.05	.01	35.00
	147.600	648.00	52.00	14181.35	411.04	57.20	1003.00	.05	4189.16	.00	35.00
	147.600	1080.00	52.01	14183.30	411.07	57.21	1003.00	.08	2522.33	.00	35.00
	147.600	1800.00	52.02	14188.71	411.14	57.22	1003.00	.13	1521.52	.00	35.00
	147.600	3000.00	52.06	14203.70	411.35	57.26	1003.00	.21	920.92	.01	35.00
	147.600	5000.00	52.16	14245.07	411.92	57.36	1003.00	.35	560.84	.01	35.00
*	147.800	648.00	52.00	11219.44	429.42	41.70	1056.00	.06	4194.24	.00	35.00
*	147.800	1080.00	52.01	11221.48	429.49	41.71	1056.00	.10	2525.38	.00	35.00
*	147.800	1800.00	52.02	11227.15	429.69	41.72	1056.00	.16	1523.35	.01	35.00
*	147.800	3000.00	52.06	11242.83	430.24	41.76	1056.00	.27	922.02	.01	35.00
*	147.800	5000.00	52.16	11286.19	431.77	41.86	1056.00	.44	561.51	.02	35.00
	147.980	648.00	52.00	10210.33	429.89	36.10	950.00	.06	4198.40	.00	35.00
	147.980	1080.00	52.01	10212.38	429.92	36.11	950.00	.11	2527.87	.00	35.00
	147.980	1800.00	52.02	10218.08	430.00	36.12	950.00	.18	1524.85	.01	35.00
	147.980	3000.00	52.06	10233.81	430.21	36.16	950.00	.29	922.92	.01	35.00
	147.980	5000.00	52.16	10277.27	430.82	36.26	950.00	.49	562.05	.02	35.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
148.170	648.00	52.00	11752.81	510.90	32.00	1003.00	.06	4203.45	.00	35.00
148.170	1080.00	52.01	11755.27	510.96	32.01	1003.00	.09	2530.90	.00	35.00
148.170	1800.00	52.02	11762.12	511.15	32.02	1003.00	.15	1526.67	.01	35.00
148.170	3000.00	52.06	11781.05	511.66	32.06	1003.00	.25	924.01	.01	35.00
148.170	5000.00	52.16	11833.39	513.08	32.16	1003.00	.42	562.71	.02	35.00
148.360	648.00	52.00	13814.33	507.79	37.00	1003.00	.05	4209.39	.00	35.00
148.360	1080.00	52.01	13816.83	507.82	37.01	1003.00	.08	2534.47	.00	35.00
148.360	1800.00	52.02	13823.75	507.91	37.02	1003.00	.13	1528.81	.00	35.00
148.360	3000.00	52.06	13842.89	508.13	37.06	1003.00	.22	925.30	.01	35.00
148.360	5000.00	52.16	13895.73	508.76	37.16	1003.00	.36	563.48	.01	35.00
148.550	648.00	52.00	13797.36	484.28	41.00	1003.00	.05	4215.33	.00	35.00
148.550	1080.00	52.01	13799.75	484.32	41.01	1003.00	.08	2538.03	.00	35.00
148.550	1800.00	52.02	13806.42	484.43	41.02	1003.00	.13	1530.94	.00	35.00
148.550	3000.00	52.06	13824.84	484.75	41.06	1003.00	.22	926.58	.01	35.00
148.550	5000.00	52.16	13875.71	485.62	41.16	1003.00	.36	564.26	.01	35.00
148.740	648.00	52.00	13220.28	465.59	40.00	1003.00	.05	4221.01	.00	35.00
148.740	1080.00	52.01	13222.59	465.63	40.01	1003.00	.08	2541.44	.00	35.00
148.740	1800.00	52.02	13229.02	465.73	40.02	1003.00	.14	1532.99	.00	35.00
148.740	3000.00	52.06	13246.79	466.00	40.06	1003.00	.23	927.81	.01	35.00
148.740	5000.00	52.16	13295.85	466.76	40.16	1003.00	.38	565.00	.01	35.00
148.930	648.00	52.00	12879.60	492.06	38.10	1003.00	.05	4226.55	.00	35.00
148.930	1080.00	52.01	12882.06	492.14	38.11	1003.00	.08	2544.76	.00	35.00
148.930	1800.00	52.02	12888.89	492.35	38.12	1003.00	.14	1534.99	.00	35.00

	148.930	3000.00	52.06	12907.77	492.94	38.16	1003.00	.23	929.01	.01	35.00
	148.930	5000.00	52.17	12959.96	494.58	38.27	1003.00	.39	565.72	.01	35.00
*	149.120	648.00	52.00	10533.27	538.86	28.30	1003.00	.06	4231.08	.00	35.00
*	149.120	1080.00	52.01	10535.96	538.95	28.31	1003.00	.10	2547.48	.00	35.00
*	149.120	1800.00	52.02	10543.49	539.18	28.32	1003.00	.17	1536.62	.01	35.00
*	149.120	3000.00	52.06	10564.30	539.82	28.36	1003.00	.28	929.99	.01	35.00
*	149.120	5000.00	52.17	10621.81	541.57	28.47	1003.00	.47	566.31	.02	35.00
	149.310	648.00	52.00	11083.73	455.91	31.10	1003.00	.06	4235.84	.00	35.00
	149.310	1080.00	52.01	11086.03	455.97	31.11	1003.00	.10	2550.34	.00	35.00
	149.310	1800.00	52.02	11092.46	456.15	31.12	1003.00	.16	1538.33	.01	35.00
	149.310	3000.00	52.06	11110.22	456.64	31.16	1003.00	.27	931.02	.01	35.00
	149.310	5000.00	52.17	11159.30	457.99	31.27	1003.00	.45	566.93	.02	35.00
	149.500	648.00	52.00	11562.73	448.95	36.00	1003.00	.06	4240.81	.00	35.00
	149.500	1080.00	52.01	11565.04	449.00	36.01	1003.00	.09	2553.32	.00	35.00
	149.500	1800.00	52.02	11571.46	449.15	36.02	1003.00	.16	1540.13	.01	35.00
	149.500	3000.00	52.06	11589.22	449.55	36.06	1003.00	.26	932.10	.01	35.00
	149.500	5000.00	52.17	11638.27	450.62	36.17	1003.00	.43	567.58	.01	35.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
149.690	648.00	52.00	11864.67	480.05	32.10	1003.00	.05	4245.92	.00	35.00
149.690	1080.00	52.01	11867.16	480.08	32.11	1003.00	.09	2556.39	.00	35.00
149.690	1800.00	52.02	11874.08	480.16	32.12	1003.00	.15	1541.96	.01	35.00
149.690	3000.00	52.06	11893.20	480.37	32.16	1003.00	.25	933.20	.01	35.00
149.690	5000.00	52.17	11946.02	482.50	32.27	1003.00	.42	568.25	.01	35.00
150.520	648.00	52.00	11382.82	547.96	34.10	4381.00	.06	4267.29	.00	35.00
150.520	1080.00	52.01	11385.76	548.02	34.11	4381.00	.09	2569.21	.00	35.00
150.520	1800.00	52.02	11393.95	548.21	34.12	4381.00	.16	1549.67	.01	35.00
150.520	3000.00	52.06	11416.57	548.71	34.16	4381.00	.26	937.84	.01	35.00
150.520	5000.00	52.18	11479.03	550.08	34.28	4381.00	.44	571.04	.02	35.00
150.710	648.00	52.00	10573.87	516.65	27.80	1003.00	.06	4271.84	.00	35.00
150.710	1080.00	52.01	10576.68	516.69	27.81	1003.00	.10	2571.94	.00	35.00
150.710	1800.00	52.02	10584.50	516.78	27.82	1003.00	.17	1551.31	.01	35.00
150.710	3000.00	52.07	10606.11	517.03	27.87	1003.00	.28	938.82	.01	35.00
150.710	5000.00	52.18	10665.72	517.74	27.98	1003.00	.47	571.63	.02	35.00
150.900	648.00	52.00	11877.22	506.71	29.90	1003.00	.05	4276.94	.00	35.00
150.900	1080.00	52.01	11880.01	506.75	29.91	1003.00	.09	2575.01	.00	35.00
150.900	1800.00	52.02	11887.77	506.85	29.92	1003.00	.15	1553.15	.01	35.00
150.900	3000.00	52.07	11909.21	507.14	29.97	1003.00	.25	939.93	.01	35.00
150.900	5000.00	52.18	11968.35	507.76	30.08	1003.00	.42	572.30	.02	35.00
151.090	648.00	52.00	12008.97	520.75	32.20	1003.00	.05	4282.11	.00	35.00
151.090	1080.00	52.01	12011.87	520.84	32.21	1003.00	.09	2578.11	.00	35.00
151.090	1800.00	52.02	12019.96	521.08	32.22	1003.00	.15	1555.01	.01	35.00

151.090	3000.00	52.07	12042.30	521.76	32.27	1003.00	.25	941.05	.01	35.00
151.090	5000.00	52.18	12104.00	523.63	32.38	1003.00	.41	572.98	.02	35.00
151.280	648.00	52.00	11411.49	544.36	30.10	1003.00	.06	4287.01	.00	35.00
151.280	1080.00	52.01	11414.54	544.38	30.11	1003.00	.09	2581.05	.00	35.00
151.280	1800.00	52.02	11423.04	544.44	30.12	1003.00	.16	1556.77	.01	35.00
151.280	3000.00	52.07	11446.52	544.61	30.17	1003.00	.26	942.11	.01	35.00
151.280	5000.00	52.19	11511.25	545.08	30.29	1003.00	.43	573.62	.02	35.00
151.470	648.00	52.00	11974.67	467.69	35.00	1003.00	.05	4292.16	.00	35.00
151.470	1080.00	52.01	11977.32	467.72	35.01	1003.00	.09	2584.14	.00	35.00
151.470	1800.00	52.02	11984.69	467.82	35.02	1003.00	.15	1558.63	.01	35.00
151.470	3000.00	52.07	12005.04	468.10	35.07	1003.00	.25	943.22	.01	35.00
151.470	5000.00	52.19	12061.19	468.85	35.19	1003.00	.41	574.29	.01	35.00
151.660	648.00	52.00	12826.78	470.68	37.80	1003.00	.05	4297.68	.00	35.00
151.660	1080.00	52.01	12829.48	470.71	37.81	1003.00	.08	2587.45	.00	35.00
151.660	1800.00	52.02	12836.96	470.79	37.82	1003.00	.14	1560.62	.00	35.00
151.660	3000.00	52.07	12857.64	471.00	37.87	1003.00	.23	944.42	.01	35.00
151.660	5000.00	52.19	12914.63	471.58	37.99	1003.00	.39	575.01	.01	35.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
151.830	648.00	52.00	13275.77	525.88	38.00	897.00	.05	4302.78	.00	35.00
151.830	1080.00	52.01	13278.79	525.90	38.01	897.00	.08	2590.51	.00	35.00
151.830	1800.00	52.02	13287.19	525.98	38.02	897.00	.14	1562.46	.00	35.00
151.830	3000.00	52.07	13310.42	526.19	38.07	897.00	.23	945.52	.01	35.00
151.830	5000.00	52.19	13374.42	526.76	38.19	897.00	.37	575.68	.01	35.00
152.060	648.00	52.00	12343.26	481.80	33.20	1214.00	.05	4309.21	.00	35.00
152.060	1080.00	52.01	12346.05	481.86	33.21	1214.00	.09	2594.37	.00	35.00
152.060	1800.00	52.03	12353.80	482.03	33.23	1214.00	.15	1564.77	.01	35.00
152.060	3000.00	52.07	12375.25	482.51	33.27	1214.00	.24	946.91	.01	35.00
152.060	5000.00	52.19	12434.41	483.83	33.39	1214.00	.40	576.51	.01	35.00
152.270	648.00	52.00	11786.34	492.56	32.80	1108.00	.05	4314.80	.00	35.00
152.270	1080.00	52.01	11789.21	492.63	32.81	1108.00	.09	2597.73	.00	35.00
152.270	1800.00	52.03	11797.19	492.80	32.83	1108.00	.15	1566.79	.01	35.00
152.270	3000.00	52.07	11819.24	493.28	32.87	1108.00	.25	948.13	.01	35.00
152.270	5000.00	52.19	11880.08	494.61	32.99	1108.00	.42	577.25	.02	35.00
152.460	648.00	52.00	12392.77	446.40	39.10	1003.00	.05	4320.13	.00	35.00
152.460	1080.00	52.01	12395.39	446.43	39.11	1003.00	.09	2600.93	.00	35.00
152.460	1800.00	52.03	12402.67	446.53	39.13	1003.00	.15	1568.71	.00	35.00
152.460	3000.00	52.07	12422.79	446.79	39.17	1003.00	.24	949.28	.01	35.00
152.460	5000.00	52.19	12478.27	447.50	39.29	1003.00	.40	577.94	.01	35.00
152.650	648.00	52.00	12150.90	415.58	54.00	1003.00	.05	4325.36	.00	35.00
152.650	1080.00	52.01	12153.36	415.64	54.01	1003.00	.09	2604.06	.00	35.00
152.650	1800.00	52.03	12160.19	415.82	54.03	1003.00	.15	1570.59	.00	35.00

152.650	3000.00	52.07	12179.08	416.33	54.07	1003.00	.25	950.41	.01	35.00
152.650	5000.00	52.20	12231.20	417.72	54.20	1003.00	.41	578.62	.01	35.00
152.890	648.00	52.00	12065.30	477.19	37.10	1267.00	.05	4331.91	.00	35.00
152.890	1080.00	52.01	12068.14	477.23	37.11	1267.00	.09	2607.99	.00	35.00
152.890	1800.00	52.03	12076.03	477.33	37.13	1267.00	.15	1572.95	.01	35.00
152.890	3000.00	52.07	12097.83	477.62	37.17	1267.00	.25	951.83	.01	35.00
152.890	5000.00	52.20	12157.92	478.41	37.30	1267.00	.41	579.48	.01	35.00
152.990	648.00	52.00	12208.26	460.03	35.10	528.00	.05	4334.67	.00	35.00
152.990	1080.00	52.01	12211.00	460.06	35.11	528.00	.09	2609.65	.00	35.00
152.990	1800.00	52.03	12218.64	460.14	35.13	528.00	.15	1573.95	.01	35.00
152.990	3000.00	52.07	12239.73	460.37	35.17	528.00	.25	952.43	.01	35.00
152.990	5000.00	52.20	12297.85	460.98	35.30	528.00	.41	579.84	.01	35.00
153.220	648.00	52.00	11525.01	487.70	32.70	1214.00	.06	4340.67	.00	35.00
153.220	1080.00	52.01	11527.94	487.74	32.71	1214.00	.09	2613.25	.00	35.00
153.220	1800.00	52.03	11536.10	487.83	32.73	1214.00	.16	1576.11	.01	35.00
153.220	3000.00	52.07	11558.65	488.10	32.77	1214.00	.26	953.73	.01	35.00
153.220	5000.00	52.20	11620.78	488.84	32.90	1214.00	.43	580.62	.02	35.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
153.460	648.00	52.00	11578.24	497.53	30.80	1267.00	.06	4346.96	.00	35.00
153.460	1080.00	52.01	11581.26	497.59	30.81	1267.00	.09	2617.03	.00	35.00
153.460	1800.00	52.03	11589.65	497.77	30.83	1267.00	.16	1578.37	.01	35.00
153.460	3000.00	52.07	11612.86	498.25	30.87	1267.00	.26	955.09	.01	35.00
153.460	5000.00	52.20	11676.84	499.59	31.00	1267.00	.43	581.44	.02	35.00
153.690	648.00	52.00	12300.58	527.63	30.30	1214.00	.05	4353.36	.00	35.00
153.690	1080.00	52.01	12303.81	527.67	30.31	1214.00	.09	2620.87	.00	35.00
153.690	1800.00	52.03	12312.81	527.78	30.33	1214.00	.15	1580.68	.01	35.00
153.690	3000.00	52.07	12337.67	528.11	30.37	1214.00	.24	956.48	.01	35.00
153.690	5000.00	52.20	12406.17	528.99	30.50	1214.00	.40	582.28	.01	35.00
153.900	648.00	52.00	11965.72	485.57	29.10	1108.00	.05	4359.04	.00	35.00
153.900	1080.00	52.01	11968.73	485.59	29.11	1108.00	.09	2624.28	.00	35.00
153.900	1800.00	52.03	11977.08	485.65	29.13	1108.00	.15	1582.73	.01	35.00
153.900	3000.00	52.07	12000.17	485.81	29.17	1108.00	.25	957.71	.01	35.00
153.900	5000.00	52.20	12063.74	486.26	29.30	1108.00	.41	583.02	.01	35.00
154.090	648.00	52.00	13052.60	519.98	31.00	1003.00	.05	4364.65	.00	35.00
154.090	1080.00	52.01	13055.83	520.03	31.01	1003.00	.08	2627.65	.00	35.00
154.090	1800.00	52.03	13064.83	520.17	31.03	1003.00	.14	1584.75	.00	35.00
154.090	3000.00	52.07	13089.71	520.56	31.07	1003.00	.23	958.92	.01	35.00
154.090	5000.00	52.21	13158.25	521.64	31.21	1003.00	.38	583.76	.01	35.00
* 154.240	648.00	52.00	12576.02	977.87	40.20	792.00	.05	4368.92	.00	35.00
* 154.240	1080.00	52.01	12582.15	978.41	40.21	792.00	.09	2630.21	.00	35.00
* 154.240	1800.00	52.03	12599.19	979.90	40.23	792.00	.14	1586.29	.01	35.00

*	154.240	3000.00	52.08	12646.43	984.03	40.28	792.00	.24	959.85	.01	35.00
*	154.240	5000.00	52.21	12777.03	987.85	40.41	792.00	.39	584.32	.02	35.00
*	154.460	648.00	52.00	13836.27	526.03	38.10	1161.00	.05	4375.81	.00	35.00
*	154.460	1080.00	52.01	13839.61	526.07	38.11	1161.00	.08	2634.34	.00	35.00
*	154.460	1800.00	52.03	13848.88	526.20	38.13	1161.00	.13	1588.77	.00	35.00
*	154.460	3000.00	52.08	13874.52	526.55	38.18	1161.00	.22	961.34	.01	35.00
*	154.460	5000.00	52.21	13945.14	527.51	38.31	1161.00	.36	585.22	.01	35.00
	154.660	648.00	52.00	12824.82	520.93	31.00	1056.00	.05	4381.62	.00	35.00
	154.660	1080.00	52.01	12828.15	520.99	31.01	1056.00	.08	2637.83	.00	35.00
	154.660	1800.00	52.03	12837.42	521.13	31.03	1056.00	.14	1590.86	.00	35.00
	154.660	3000.00	52.08	12863.04	521.53	31.08	1056.00	.23	962.60	.01	35.00
	154.660	5000.00	52.21	12933.61	522.62	31.21	1056.00	.39	585.98	.01	35.00
	154.800	648.00	52.00	12504.18	520.08	32.10	739.00	.05	4385.58	.00	35.00
	154.800	1080.00	52.01	12507.50	520.15	32.11	739.00	.09	2640.20	.00	35.00
	154.800	1800.00	52.03	12516.74	520.35	32.13	739.00	.14	1592.29	.01	35.00
	154.800	3000.00	52.08	12542.29	520.88	32.18	739.00	.24	963.46	.01	35.00
	154.800	5000.00	52.21	12612.68	522.36	32.31	739.00	.40	586.50	.01	35.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
154.970	648.00	52.00	12669.21	446.68	37.90	897.00	.05	4390.45	.00	35.00
154.970	1080.00	52.01	12672.08	446.72	37.91	897.00	.09	2643.13	.00	35.00
154.970	1800.00	52.03	12680.05	446.84	37.93	897.00	.14	1594.05	.00	35.00
154.970	3000.00	52.08	12702.11	447.16	37.98	897.00	.24	964.51	.01	35.00
154.970	5000.00	52.21	12762.84	448.04	38.11	897.00	.39	587.13	.01	35.00
155.260	648.00	52.00	13129.58	470.04	36.00	1531.00	.05	4399.07	.00	35.00
155.260	1080.00	52.01	13132.63	470.07	36.01	1531.00	.08	2648.30	.00	35.00
155.260	1800.00	52.03	13141.09	470.13	36.03	1531.00	.14	1597.15	.00	35.00
155.260	3000.00	52.08	13164.48	470.31	36.08	1531.00	.23	966.38	.01	35.00
155.260	5000.00	52.21	13228.85	470.79	36.21	1531.00	.38	588.26	.01	35.00
155.380	648.00	52.00	12377.96	477.39	38.90	633.00	.05	4402.42	.00	35.00
155.380	1080.00	52.01	12381.06	477.44	38.91	633.00	.09	2650.31	.00	35.00
155.380	1800.00	52.03	12389.68	477.58	38.93	633.00	.15	1598.36	.01	35.00
155.380	3000.00	52.08	12413.51	477.97	38.98	633.00	.24	967.11	.01	35.00
155.380	5000.00	52.22	12479.14	479.03	39.12	633.00	.40	588.70	.01	35.00
155.690	648.00	52.00	10214.60	389.76	47.90	1636.00	.06	4409.59	.00	35.00
155.690	1080.00	52.01	10217.15	389.80	47.91	1636.00	.11	2654.61	.00	35.00
155.690	1800.00	52.03	10224.24	389.90	47.93	1636.00	.18	1600.94	.01	35.00
155.690	3000.00	52.08	10243.84	390.16	47.98	1636.00	.29	968.66	.01	35.00
155.690	5000.00	52.22	10297.80	390.90	48.12	1636.00	.49	589.63	.02	35.00
155.790	648.00	52.00	10897.82	405.53	49.90	528.00	.06	4412.05	.00	35.00
155.790	1080.00	52.01	10900.48	405.56	49.91	528.00	.10	2656.09	.00	35.00
155.790	1800.00	52.03	10907.88	405.66	49.93	528.00	.17	1601.83	.01	35.00

	155.790	3000.00	52.08	10928.32	405.92	49.98	528.00	.27	969.19	.01	35.00
	155.790	5000.00	52.22	10984.60	406.62	50.12	528.00	.46	589.95	.02	35.00
	156.000	648.00	52.00	10661.19	440.96	38.20	1108.00	.06	4417.12	.00	35.00
	156.000	1080.00	52.01	10664.11	441.03	38.21	1108.00	.10	2659.13	.00	35.00
	156.000	1800.00	52.03	10672.25	441.24	38.23	1108.00	.17	1603.66	.01	35.00
	156.000	3000.00	52.08	10694.74	441.81	38.28	1108.00	.28	970.29	.01	35.00
	156.000	5000.00	52.22	10756.73	443.39	38.42	1108.00	.46	590.62	.02	35.00
	156.230	648.00	52.00	11679.05	632.15	31.60	1214.00	.06	4423.20	.00	35.00
	156.230	1080.00	52.01	11683.29	632.31	31.61	1214.00	.09	2662.78	.00	35.00
	156.230	1800.00	52.03	11695.05	632.76	31.63	1214.00	.15	1605.85	.01	35.00
	156.230	3000.00	52.08	11727.59	634.01	31.68	1214.00	.26	971.61	.01	35.00
	156.230	5000.00	52.22	11817.40	637.42	31.82	1214.00	.42	591.41	.02	35.00
*	156.400	648.00	52.00	20202.32	508.54	56.90	897.00	.03	4430.96	.00	35.00
*	156.400	1080.00	52.01	20205.77	508.58	56.91	897.00	.05	2667.44	.00	35.00
*	156.400	1800.00	52.03	20215.35	508.68	56.93	897.00	.09	1608.65	.00	35.00
*	156.400	3000.00	52.08	20241.80	508.98	56.98	897.00	.15	973.29	.00	35.00
*	156.400	5000.00	52.23	20314.62	509.79	57.13	897.00	.25	592.42	.01	35.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
*	156.550	648.00	52.00	17836.88	681.80	40.00	792.00	.04	4437.02	.00	35.00
*	156.550	1080.00	52.01	17841.54	681.85	40.01	792.00	.06	2671.08	.00	35.00
*	156.550	1800.00	52.03	17854.47	681.98	40.03	792.00	.10	1610.83	.00	35.00
*	156.550	3000.00	52.08	17890.22	682.33	40.08	792.00	.17	974.60	.01	35.00
*	156.550	5000.00	52.23	17988.58	683.29	40.23	792.00	.28	593.22	.01	35.00
*	156.720	648.00	52.00	11036.11	553.83	31.00	897.00	.06	4441.26	.00	35.00
*	156.720	1080.00	52.01	11039.89	553.94	31.01	897.00	.10	2673.62	.00	35.00
*	156.720	1800.00	52.03	11050.38	554.21	31.03	897.00	.16	1612.36	.01	35.00
*	156.720	3000.00	52.08	11079.39	554.99	31.08	897.00	.27	975.52	.01	35.00
*	156.720	5000.00	52.22	11161.05	584.34	31.22	897.00	.45	593.77	.02	35.00
	157.030	648.00	52.00	11129.64	478.89	33.60	1636.00	.06	4449.07	.00	35.00
	157.030	1080.00	52.01	11132.93	478.94	33.61	1636.00	.10	2678.31	.00	35.00
	157.030	1800.00	52.03	11142.04	479.08	33.63	1636.00	.16	1615.17	.01	35.00
	157.030	3000.00	52.08	11167.26	479.48	33.68	1636.00	.27	977.21	.01	35.00
	157.030	5000.00	52.23	11236.74	480.56	33.83	1636.00	.44	594.79	.02	35.00
	157.220	648.00	52.00	11838.51	440.85	38.80	1003.00	.05	4454.16	.00	35.00
	157.220	1080.00	52.01	11841.57	440.91	38.81	1003.00	.09	2681.36	.00	35.00
	157.220	1800.00	52.03	11850.08	441.08	38.83	1003.00	.15	1617.00	.01	35.00
	157.220	3000.00	52.08	11873.59	441.56	38.88	1003.00	.25	978.32	.01	35.00
	157.220	5000.00	52.23	11938.41	442.87	39.03	1003.00	.42	595.46	.01	35.00
	157.390	648.00	52.00	10883.75	384.73	45.00	897.00	.06	4458.34	.00	35.00
	157.390	1080.00	52.01	10886.44	384.80	45.01	897.00	.10	2683.87	.00	35.00
	157.390	1800.00	52.03	10893.91	384.99	45.03	897.00	.17	1618.51	.01	35.00

157.390	3000.00	52.08	10914.54	385.50	45.08	897.00	.27	979.22	.01	35.00
157.390	5000.00	52.23	10971.44	386.91	45.23	897.00	.46	596.01	.02	35.00
157.600	648.00	52.00	11937.86	402.64	42.80	1108.00	.05	4464.01	.00	35.00
157.600	1080.00	52.01	11940.68	402.68	42.81	1108.00	.09	2687.28	.00	35.00
157.600	1800.00	52.03	11948.52	402.78	42.83	1108.00	.15	1620.56	.00	35.00
157.600	3000.00	52.08	11970.20	403.06	42.88	1108.00	.25	980.45	.01	35.00
157.600	5000.00	52.23	12029.89	403.92	43.03	1108.00	.42	596.75	.01	35.00
158.060	648.00	52.00	12310.49	436.54	39.90	2428.00	.05	4476.83	.00	35.00
158.060	1080.00	52.01	12313.60	436.60	39.91	2428.00	.09	2694.97	.00	35.00
158.060	1800.00	52.03	12322.23	436.78	39.93	2428.00	.15	1625.17	.00	35.00
158.060	3000.00	52.09	12346.10	437.26	39.99	2428.00	.24	983.23	.01	35.00
158.060	5000.00	52.24	12411.88	438.60	40.14	2428.00	.40	598.42	.01	35.00
158.250	648.00	52.00	11136.20	447.49	33.10	1003.00	.06	4481.61	.00	35.00
158.250	1080.00	52.01	11139.41	447.54	33.11	1003.00	.10	2697.84	.00	35.00
158.250	1800.00	52.03	11148.29	447.68	33.13	1003.00	.16	1626.90	.01	35.00
158.250	3000.00	52.09	11172.85	448.08	33.19	1003.00	.27	984.26	.01	35.00
158.250	5000.00	52.24	11240.49	449.16	33.34	1003.00	.44	599.05	.02	35.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
158.440	648.00	52.00	11269.07	448.60	33.00	1003.00	.06	4486.46	.00	35.00
158.440	1080.00	52.01	11272.29	448.70	33.01	1003.00	.10	2700.75	.00	35.00
158.440	1800.00	52.03	11281.24	448.97	33.03	1003.00	.16	1628.64	.01	35.00
158.440	3000.00	52.09	11306.00	449.71	33.09	1003.00	.27	985.31	.01	35.00
158.440	5000.00	52.24	11374.29	451.76	33.24	1003.00	.44	599.68	.02	35.00
158.630	648.00	52.00	11010.18	435.63	33.00	1003.00	.06	4491.19	.00	35.00
158.630	1080.00	52.01	11013.33	435.75	33.01	1003.00	.10	2703.59	.00	35.00
158.630	1800.00	52.03	11022.09	436.09	33.03	1003.00	.16	1630.35	.01	35.00
158.630	3000.00	52.09	11046.33	437.00	33.09	1003.00	.27	986.34	.01	35.00
158.630	5000.00	52.24	11113.24	439.53	33.24	1003.00	.45	600.30	.02	35.00
158.820	648.00	52.00	11224.33	461.98	32.00	1003.00	.06	4496.02	.00	35.00
158.820	1080.00	52.01	11227.69	462.02	32.01	1003.00	.10	2706.49	.00	35.00
158.820	1800.00	52.03	11237.04	462.12	32.03	1003.00	.16	1632.09	.01	35.00
158.820	3000.00	52.09	11262.86	462.40	32.09	1003.00	.27	987.39	.01	35.00
158.820	5000.00	52.24	11333.94	463.19	32.24	1003.00	.44	600.93	.02	35.00
159.200	648.00	52.00	11494.78	414.14	35.90	2006.00	.06	4505.90	.00	35.00
159.200	1080.00	52.01	11497.84	414.18	35.91	2006.00	.09	2712.42	.00	35.00
159.200	1800.00	52.03	11506.33	414.29	35.93	2006.00	.16	1635.65	.01	35.00
159.200	3000.00	52.09	11529.81	414.61	35.99	2006.00	.26	989.53	.01	35.00
159.200	5000.00	52.24	11594.42	415.47	36.14	2006.00	.43	602.22	.01	35.00
159.390	648.00	52.00	10817.15	429.63	35.00	1003.00	.06	4510.55	.00	35.00
159.390	1080.00	52.01	10820.34	429.71	35.01	1003.00	.10	2715.21	.00	35.00
159.390	1800.00	52.03	10829.19	429.90	35.03	1003.00	.17	1637.33	.01	35.00

159.390	3000.00	52.09	10853.69	430.45	35.09	1003.00	.28	990.54	.01	35.00
159.390	5000.00	52.25	10921.16	431.95	35.25	1003.00	.46	602.83	.02	35.00
159.590	648.00	52.00	9654.67	394.69	28.80	1056.00	.07	4514.93	.00	35.00
159.590	1080.00	52.01	9657.61	394.72	28.81	1056.00	.11	2717.83	.00	35.00
159.590	1800.00	52.03	9665.79	394.80	28.83	1056.00	.19	1638.90	.01	35.00
159.590	3000.00	52.09	9688.39	395.02	28.89	1056.00	.31	991.48	.01	35.00
159.590	5000.00	52.25	9750.58	395.62	29.05	1056.00	.51	603.40	.02	35.00
159.730	648.00	52.00	10300.40	467.70	31.70	739.00	.06	4518.19	.00	35.00
159.730	1080.00	52.01	10303.91	467.75	31.71	739.00	.10	2719.79	.00	35.00
159.730	1800.00	52.03	10313.65	467.89	31.73	739.00	.17	1640.08	.01	35.00
159.730	3000.00	52.09	10340.58	468.27	31.79	739.00	.29	992.19	.01	35.00
159.730	5000.00	52.25	10414.69	469.32	31.95	739.00	.48	603.83	.02	35.00
159.880	648.00	52.00	10060.05	459.95	35.40	792.00	.06	4521.60	.00	35.00
159.880	1080.00	52.01	10063.53	460.05	35.41	792.00	.11	2721.84	.00	35.00
159.880	1800.00	52.03	10073.21	460.32	35.43	792.00	.18	1641.31	.01	35.00
159.880	3000.00	52.09	10099.98	461.05	35.49	792.00	.30	992.93	.01	35.00
159.880	5000.00	52.25	10173.72	463.07	35.65	792.00	.49	604.28	.02	35.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
160.000	648.00	52.00	10273.01	437.01	32.10	633.00	.06	4524.39	.00	35.00
160.000	1080.00	52.01	10276.34	437.05	32.11	633.00	.11	2723.51	.00	35.00
160.000	1800.00	52.03	10285.57	437.17	32.13	633.00	.18	1642.31	.01	35.00
160.000	3000.00	52.09	10311.12	437.48	32.19	633.00	.29	993.54	.01	35.00
160.000	5000.00	52.25	10381.38	438.36	32.35	633.00	.48	604.64	.02	35.00
160.130	648.00	52.00	10966.89	437.54	31.00	686.00	.06	4527.62	.00	35.00
160.130	1080.00	52.01	10970.25	437.57	31.01	686.00	.10	2725.45	.00	35.00
160.130	1800.00	52.03	10979.56	437.65	31.03	686.00	.16	1643.48	.01	35.00
160.130	3000.00	52.09	11005.29	437.87	31.09	686.00	.27	994.23	.01	35.00
160.130	5000.00	52.25	11076.01	438.46	31.25	686.00	.45	605.07	.02	35.00
160.280	648.00	52.00	11715.57	473.73	34.90	792.00	.06	4531.59	.00	35.00
160.280	1080.00	52.01	11719.22	473.81	34.91	792.00	.09	2727.84	.00	35.00
160.280	1800.00	52.03	11729.37	474.03	34.93	792.00	.15	1644.91	.01	35.00
160.280	3000.00	52.09	11757.43	474.64	34.99	792.00	.26	995.10	.01	35.00
160.280	5000.00	52.26	11834.68	476.32	35.16	792.00	.42	605.59	.01	35.00
160.510	648.00	52.00	10813.07	474.09	34.30	1214.00	.06	4537.22	.00	35.00
160.510	1080.00	52.01	10816.76	474.18	34.31	1214.00	.10	2731.22	.00	35.00
160.510	1800.00	52.03	10827.00	474.42	34.33	1214.00	.17	1646.94	.01	35.00
160.510	3000.00	52.09	10855.31	475.09	34.39	1214.00	.28	996.32	.01	35.00
160.510	5000.00	52.26	10933.26	476.92	34.56	1214.00	.46	606.32	.02	35.00
160.670	648.00	52.00	11408.64	475.77	35.10	844.00	.06	4541.35	.00	35.00
160.670	1080.00	52.01	11412.35	475.81	35.11	844.00	.09	2733.69	.00	35.00
160.670	1800.00	52.03	11422.67	475.93	35.13	844.00	.16	1648.43	.01	35.00

160.670	3000.00	52.09	11451.19	476.26	35.19	844.00	.26	997.21	.01	35.00
160.670	5000.00	52.26	11529.61	477.17	35.36	844.00	.43	606.87	.02	35.00
160.860	648.00	52.00	12979.91	487.22	44.00	1003.00	.05	4546.93	.00	35.00
160.860	1080.00	52.01	12983.75	487.31	44.01	1003.00	.08	2737.04	.00	35.00
160.860	1800.00	52.03	12994.40	487.54	44.03	1003.00	.14	1650.44	.00	35.00
160.860	3000.00	52.09	13023.87	488.18	44.09	1003.00	.23	998.42	.01	35.00
160.860	5000.00	52.26	13104.96	489.95	44.26	1003.00	.38	607.60	.01	35.00
161.050	648.00	52.00	13016.56	471.23	35.10	1003.00	.05	4552.53	.00	35.00
161.050	1080.00	52.01	13020.29	471.27	35.11	1003.00	.08	2740.40	.00	35.00
161.050	1800.00	52.03	13030.66	471.40	35.13	1003.00	.14	1652.46	.00	35.00
161.050	3000.00	52.10	13059.32	471.76	35.20	1003.00	.23	999.63	.01	35.00
161.050	5000.00	52.26	13138.11	472.74	35.36	1003.00	.38	608.33	.01	35.00
161.400	648.00	52.00	13720.44	550.56	34.30	1848.00	.05	4563.40	.00	35.00
161.400	1080.00	52.01	13724.83	550.61	34.31	1848.00	.08	2746.92	.00	35.00
161.400	1800.00	52.03	13737.02	550.77	34.33	1848.00	.13	1656.37	.00	35.00
161.400	3000.00	52.10	13770.71	551.19	34.40	1848.00	.22	1001.99	.01	35.00
161.400	5000.00	52.26	13863.34	552.37	34.56	1848.00	.36	609.75	.01	35.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	161.590	648.00	52.00	13217.10	563.93	31.80	1003.00	.05	4569.08	.00	35.00
	161.590	1080.00	52.01	13221.63	564.01	31.81	1003.00	.08	2750.33	.00	35.00
	161.590	1800.00	52.03	13234.17	564.22	31.83	1003.00	.14	1658.42	.00	35.00
	161.590	3000.00	52.10	13268.85	564.81	31.90	1003.00	.23	1003.22	.01	35.00
	161.590	5000.00	52.26	13364.23	566.42	32.06	1003.00	.37	610.50	.01	35.00
*	161.800	648.00	52.00	20287.54	616.19	61.10	1108.00	.03	4578.71	.00	35.00
*	161.800	1080.00	52.01	20292.51	616.23	61.11	1108.00	.05	2756.12	.00	35.00
*	161.800	1800.00	52.04	20306.28	616.36	61.14	1108.00	.09	1661.89	.00	35.00
*	161.800	3000.00	52.10	20344.32	616.71	61.20	1108.00	.15	1005.31	.00	35.00
*	161.800	5000.00	52.27	20448.96	618.76	61.37	1108.00	.24	611.75	.01	35.00
*	161.940	648.00	52.00	11451.89	488.13	30.20	739.00	.06	4582.34	.00	35.00
*	161.940	1080.00	52.01	11455.84	488.17	30.21	739.00	.09	2758.30	.00	35.00
*	161.940	1800.00	52.03	11466.81	488.27	30.23	739.00	.16	1663.20	.01	35.00
*	161.940	3000.00	52.10	11497.09	488.54	30.30	739.00	.26	1006.10	.01	35.00
*	161.940	5000.00	52.27	11580.32	489.29	30.47	739.00	.43	612.23	.02	35.00
	162.230	648.00	52.00	11405.86	501.61	32.10	1531.00	.06	4589.83	.00	35.00
	162.230	1080.00	52.01	11409.92	501.66	32.11	1531.00	.09	2762.79	.00	35.00
	162.230	1800.00	52.04	11421.18	501.79	32.14	1531.00	.16	1665.90	.01	35.00
	162.230	3000.00	52.10	11452.31	502.16	32.20	1531.00	.26	1007.72	.01	35.00
	162.230	5000.00	52.27	11537.88	503.16	32.37	1531.00	.43	613.21	.02	35.00
	162.390	648.00	52.00	11483.22	428.44	47.10	844.00	.06	4593.98	.00	35.00
	162.390	1080.00	52.01	11486.72	428.49	47.11	844.00	.09	2765.28	.00	35.00
	162.390	1800.00	52.04	11496.43	428.64	47.14	844.00	.16	1667.40	.01	35.00

162.390	3000.00	52.10	11523.26	429.03	47.20	844.00	.26	1008.62	.01	35.00
162.390	5000.00	52.27	11597.03	430.12	47.37	844.00	.43	613.75	.01	35.00
162.600	648.00	52.00	12179.45	553.58	31.00	1108.00	.05	4599.77	.00	35.00
162.600	1080.00	52.01	12184.00	553.92	31.01	1108.00	.09	2768.75	.00	35.00
162.600	1800.00	52.04	12196.63	554.86	31.04	1108.00	.15	1669.48	.01	35.00
162.600	3000.00	52.10	12231.64	557.47	31.10	1108.00	.25	1009.88	.01	35.00
162.600	5000.00	52.27	12328.47	563.42	31.27	1108.00	.41	614.51	.02	35.00
162.800	648.00	52.00	10713.48	467.03	27.90	1056.00	.06	4604.62	.00	35.00
162.800	1080.00	52.01	10717.34	467.09	27.91	1056.00	.10	2771.66	.00	35.00
162.800	1800.00	52.04	10728.06	467.23	27.94	1056.00	.17	1671.23	.01	35.00
162.800	3000.00	52.10	10757.67	467.64	28.00	1056.00	.28	1010.93	.01	35.00
162.800	5000.00	52.27	10839.06	468.75	28.17	1056.00	.46	615.15	.02	35.00
162.990	648.00	52.00	9677.60	418.33	33.00	1003.00	.07	4608.78	.00	35.00
162.990	1080.00	52.01	9681.07	418.37	33.01	1003.00	.11	2774.16	.00	35.00
162.990	1800.00	52.04	9690.72	418.46	33.04	1003.00	.19	1672.73	.01	35.00
162.990	3000.00	52.10	9717.38	418.73	33.10	1003.00	.31	1011.83	.01	35.00
162.990	5000.00	52.27	9790.64	419.68	33.27	1003.00	.51	615.70	.02	35.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
163.180	648.00	52.00	9764.85	399.87	35.00	1003.00	.07	4612.98	.00	35.00
163.180	1080.00	52.01	9768.20	399.91	35.01	1003.00	.11	2776.68	.00	35.00
163.180	1800.00	52.04	9777.48	400.01	35.04	1003.00	.18	1674.24	.01	35.00
163.180	3000.00	52.10	9803.14	400.31	35.10	1003.00	.31	1012.74	.01	35.00
163.180	5000.00	52.28	9873.66	401.12	35.28	1003.00	.51	616.25	.02	35.00
163.320	648.00	52.00	11440.45	433.86	36.00	739.00	.06	4616.60	.00	35.00
163.320	1080.00	52.01	11444.10	433.91	36.01	739.00	.09	2778.86	.00	35.00
163.320	1800.00	52.04	11454.25	434.07	36.04	739.00	.16	1675.55	.01	35.00
163.320	3000.00	52.10	11482.28	434.51	36.10	739.00	.26	1013.53	.01	35.00
163.320	5000.00	52.28	11559.33	435.70	36.28	739.00	.43	616.72	.01	35.00
163.540	648.00	52.00	11988.29	454.73	36.20	1161.00	.05	4622.57	.00	35.00
163.540	1080.00	52.01	11992.16	454.78	36.21	1161.00	.09	2782.44	.00	35.00
163.540	1800.00	52.04	12002.90	454.91	36.24	1161.00	.15	1677.70	.01	35.00
163.540	3000.00	52.10	12032.58	455.29	36.30	1161.00	.25	1014.82	.01	35.00
163.540	5000.00	52.28	12114.09	456.31	36.48	1161.00	.41	617.50	.01	35.00
163.760	648.00	52.00	10772.64	448.21	32.50	1161.00	.06	4627.93	.00	35.00
163.760	1080.00	52.01	10776.47	448.25	32.51	1161.00	.10	2785.66	.00	35.00
163.760	1800.00	52.04	10787.11	448.38	32.54	1161.00	.17	1679.63	.01	35.00
163.760	3000.00	52.10	10816.49	448.74	32.60	1161.00	.28	1015.98	.01	35.00
163.760	5000.00	52.28	10897.21	449.71	32.78	1161.00	.46	618.20	.02	35.00
163.930	648.00	52.00	10869.19	446.86	31.10	897.00	.06	4632.11	.00	35.00
163.930	1080.00	52.01	10873.03	446.89	31.11	897.00	.10	2788.17	.00	35.00
163.930	1800.00	52.04	10883.67	447.00	31.14	897.00	.17	1681.14	.01	35.00

	163.930	3000.00	52.10	10913.08	447.28	31.20	897.00	.27	1016.89	.01	35.00
	163.930	5000.00	52.28	10993.81	448.07	31.38	897.00	.45	618.75	.02	35.00
	164.100	648.00	52.00	10554.27	457.21	32.00	897.00	.06	4636.16	.00	35.00
	164.100	1080.00	52.01	10558.22	457.29	32.01	897.00	.10	2790.60	.00	35.00
	164.100	1800.00	52.04	10569.18	457.52	32.04	897.00	.17	1682.60	.01	35.00
	164.100	3000.00	52.10	10599.48	458.16	32.10	897.00	.28	1017.77	.01	35.00
	164.100	5000.00	52.29	10682.78	459.90	32.29	897.00	.47	619.28	.02	35.00
*	164.340	648.00	52.00	14487.51	447.44	53.60	1267.00	.04	4644.03	.00	35.00
*	164.340	1080.00	52.01	14491.40	447.52	53.61	1267.00	.07	2795.32	.00	35.00
*	164.340	1800.00	52.04	14502.21	447.74	53.64	1267.00	.12	1685.44	.00	35.00
*	164.340	3000.00	52.10	14532.09	448.34	53.70	1267.00	.21	1019.47	.01	35.00
*	164.340	5000.00	52.29	14614.21	449.99	53.89	1267.00	.34	620.31	.01	35.00
	164.540	648.00	52.00	14071.06	450.83	50.10	1056.00	.05	4650.40	.00	35.00
	164.540	1080.00	52.01	14075.01	450.91	50.11	1056.00	.08	2799.15	.00	35.00
	164.540	1800.00	52.04	14085.99	451.13	50.14	1056.00	.13	1687.73	.00	35.00
	164.540	3000.00	52.10	14116.32	451.74	50.20	1056.00	.21	1020.85	.01	35.00
	164.540	5000.00	52.29	14199.70	453.42	50.39	1056.00	.35	621.15	.01	35.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
164.740	648.00	52.00	13058.64	444.12	43.00	1056.00	.05	4656.31	.00	35.00
164.740	1080.00	52.01	13062.54	444.21	43.01	1056.00	.08	2802.69	.00	35.00
164.740	1800.00	52.04	13073.36	444.44	43.04	1056.00	.14	1689.86	.00	35.00
164.740	3000.00	52.11	13103.25	445.04	43.11	1056.00	.23	1022.14	.01	35.00
164.740	5000.00	52.29	13185.34	445.95	43.29	1056.00	.38	621.92	.01	35.00
164.980	648.00	52.00	13866.19	516.89	37.30	1267.00	.05	4663.84	.00	35.00
164.980	1080.00	52.01	13870.74	516.96	37.31	1267.00	.08	2807.21	.00	35.00
164.980	1800.00	52.04	13883.36	517.13	37.34	1267.00	.13	1692.58	.00	35.00
164.980	3000.00	52.11	13918.25	517.60	37.41	1267.00	.22	1023.77	.01	35.00
164.980	5000.00	52.29	14014.06	518.90	37.59	1267.00	.36	622.91	.01	35.00
165.190	648.00	52.00	12975.02	488.99	40.40	1108.00	.05	4670.01	.00	35.00
165.190	1080.00	52.01	12979.35	489.07	40.41	1108.00	.08	2810.91	.00	35.00
165.190	1800.00	52.04	12991.35	489.29	40.44	1108.00	.14	1694.80	.00	35.00
165.190	3000.00	52.11	13024.53	489.91	40.51	1108.00	.23	1025.10	.01	35.00
165.190	5000.00	52.29	13115.68	491.62	40.69	1108.00	.38	623.71	.01	35.00
165.390	648.00	52.00	12295.31	394.86	50.00	1056.00	.05	4675.57	.00	35.00
165.390	1080.00	52.01	12298.81	394.90	50.01	1056.00	.09	2814.25	.00	35.00
165.390	1800.00	52.04	12308.54	395.02	50.04	1056.00	.15	1696.81	.00	35.00
165.390	3000.00	52.11	12335.39	395.35	50.11	1056.00	.24	1026.31	.01	35.00
165.390	5000.00	52.29	12409.14	396.27	50.29	1056.00	.40	624.44	.01	35.00
165.610	648.00	52.00	13005.13	475.11	45.10	1161.00	.05	4682.05	.00	35.00
165.610	1080.00	52.01	13009.37	475.20	45.11	1161.00	.08	2818.14	.00	35.00
165.610	1800.00	52.04	13021.10	475.46	45.14	1161.00	.14	1699.14	.00	35.00

165.610	3000.00	52.11	13053.55	476.17	45.21	1161.00	.23	1027.71	.01	35.00
165.610	5000.00	52.29	13142.76	478.12	45.39	1161.00	.38	625.29	.01	35.00
165.750	648.00	52.01	12840.63	649.06	25.31	739.00	.05	4686.11	.00	35.00
165.750	1080.00	52.01	12846.43	649.16	25.31	739.00	.08	2820.58	.00	35.00
165.750	1800.00	52.04	12862.52	649.44	25.34	739.00	.14	1700.61	.01	35.00
165.750	3000.00	52.11	12906.99	650.21	25.41	739.00	.23	1028.60	.01	35.00
165.750	5000.00	52.29	13029.16	652.32	25.59	739.00	.38	625.82	.02	35.00
165.950	648.00	52.01	12206.18	615.87	28.11	1056.00	.05	4691.64	.00	35.00
165.950	1080.00	52.01	12211.72	615.92	28.11	1056.00	.09	2823.90	.00	35.00
165.950	1800.00	52.04	12227.06	616.06	28.14	1056.00	.15	1702.60	.01	35.00
165.950	3000.00	52.11	12269.45	616.45	28.21	1056.00	.24	1029.80	.01	35.00
165.950	5000.00	52.30	12385.77	617.53	28.40	1056.00	.40	626.55	.02	35.00
166.160	648.00	52.01	12284.39	636.53	25.11	1108.00	.05	4697.47	.00	35.00
166.160	1080.00	52.01	12290.16	636.59	25.11	1108.00	.09	2827.40	.00	35.00
166.160	1800.00	52.04	12306.12	636.75	25.14	1108.00	.15	1704.70	.01	35.00
166.160	3000.00	52.11	12350.23	637.18	25.21	1108.00	.24	1031.06	.01	35.00
166.160	5000.00	52.30	12471.27	638.39	25.40	1108.00	.40	627.32	.02	35.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
166.370	648.00	52.01	11764.03	647.35	27.11	1108.00	.06	4703.06	.00	35.00
166.370	1080.00	52.01	11769.93	647.42	27.11	1108.00	.09	2830.75	.00	35.00
166.370	1800.00	52.04	11786.28	647.62	27.14	1108.00	.15	1706.72	.01	35.00
166.370	3000.00	52.11	11831.46	648.17	27.21	1108.00	.25	1032.28	.01	35.00
166.370	5000.00	52.30	11955.45	649.68	27.40	1108.00	.42	628.05	.02	35.00
166.570	648.00	52.01	10907.79	613.32	22.31	1056.00	.06	4708.00	.00	35.00
166.570	1080.00	52.01	10913.42	613.40	22.31	1056.00	.10	2833.72	.00	35.00
166.570	1800.00	52.04	10929.02	613.62	22.34	1056.00	.16	1708.50	.01	35.00
166.570	3000.00	52.11	10972.12	614.23	22.41	1056.00	.27	1033.35	.01	35.00
166.570	5000.00	52.30	11090.41	615.92	22.60	1056.00	.45	628.70	.02	35.00
166.760	648.00	52.01	10896.38	688.52	22.01	1003.00	.06	4712.68	.00	35.00
166.760	1080.00	52.01	10902.75	688.57	22.01	1003.00	.10	2836.53	.00	35.00
166.760	1800.00	52.04	10920.39	688.71	22.04	1003.00	.16	1710.19	.01	35.00
166.760	3000.00	52.11	10969.13	689.10	22.11	1003.00	.27	1034.37	.01	35.00
166.760	5000.00	52.30	11102.74	690.17	22.30	1003.00	.45	629.32	.02	35.00
166.950	648.00	52.01	12506.99	725.15	23.91	1003.00	.05	4718.06	.00	35.00
166.950	1080.00	52.01	12513.78	725.23	23.91	1003.00	.09	2839.76	.00	35.00
166.950	1800.00	52.04	12532.54	725.47	23.94	1003.00	.14	1712.13	.01	35.00
166.950	3000.00	52.11	12584.41	726.13	24.01	1003.00	.24	1035.54	.01	35.00
166.950	5000.00	52.31	12726.63	727.93	24.21	1003.00	.39	630.03	.02	35.00
167.130	648.00	52.01	11680.55	626.52	26.11	950.00	.06	4722.82	.00	35.00
167.130	1080.00	52.01	11686.47	626.59	26.11	950.00	.09	2842.61	.00	35.00
167.130	1800.00	52.04	11702.83	626.81	26.14	950.00	.15	1713.85	.01	35.00

167.130	3000.00	52.11	11748.05	627.39	26.21	950.00	.26	1036.57	.01	35.00
167.130	5000.00	52.31	11872.02	629.00	26.41	950.00	.42	630.66	.02	35.00
167.320	648.00	52.01	11926.64	579.69	31.11	1003.00	.05	4727.95	.00	35.00
167.320	1080.00	52.01	11932.14	579.80	31.11	1003.00	.09	2845.69	.00	35.00
167.320	1800.00	52.04	11947.35	580.08	31.14	1003.00	.15	1715.69	.01	35.00
167.320	3000.00	52.11	11989.39	580.88	31.21	1003.00	.25	1037.69	.01	35.00
167.320	5000.00	52.31	12104.70	583.04	31.41	1003.00	.41	631.33	.02	35.00
167.520	648.00	52.01	13073.05	603.66	28.91	1056.00	.05	4733.86	.00	35.00
167.520	1080.00	52.01	13078.81	603.70	28.91	1056.00	.08	2849.24	.00	35.00
167.520	1800.00	52.04	13094.75	603.81	28.94	1056.00	.14	1717.83	.01	35.00
167.520	3000.00	52.11	13138.76	604.13	29.01	1056.00	.23	1038.97	.01	35.00
167.520	5000.00	52.31	13259.30	604.98	29.21	1056.00	.38	632.11	.01	35.00
167.700	648.00	52.01	12283.08	554.32	34.01	950.00	.05	4738.87	.00	35.00
167.700	1080.00	52.01	12288.40	554.38	34.01	950.00	.09	2852.25	.00	35.00
167.700	1800.00	52.04	12303.10	554.54	34.04	950.00	.15	1719.63	.01	35.00
167.700	3000.00	52.11	12343.73	555.01	34.11	950.00	.24	1040.06	.01	35.00
167.700	5000.00	52.31	12455.06	556.27	34.31	950.00	.40	632.77	.01	35.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	167.880	648.00	52.01	11987.31	567.41	33.11	950.00	.05	4743.75	.00	35.00
	167.880	1080.00	52.02	11992.78	567.68	33.12	950.00	.09	2855.18	.00	35.00
	167.880	1800.00	52.04	12007.89	568.41	33.14	950.00	.15	1721.39	.01	35.00
	167.880	3000.00	52.12	12049.72	570.42	33.22	950.00	.25	1041.12	.01	35.00
	167.880	5000.00	52.32	12164.93	575.94	33.42	950.00	.41	633.41	.02	35.00
	168.060	648.00	52.01	11339.23	544.75	30.31	950.00	.06	4748.37	.00	35.00
	168.060	1080.00	52.02	11344.50	544.84	30.32	950.00	.10	2857.95	.00	35.00
	168.060	1800.00	52.04	11359.07	545.08	30.34	950.00	.16	1723.06	.01	35.00
	168.060	3000.00	52.12	11399.33	545.74	30.42	950.00	.26	1042.12	.01	35.00
	168.060	5000.00	52.32	11509.73	547.55	30.62	950.00	.43	634.02	.02	35.00
	168.210	648.00	52.01	11654.98	548.86	29.41	792.00	.06	4752.32	.00	35.00
	168.210	1080.00	52.02	11660.31	548.91	29.42	792.00	.09	2860.32	.00	35.00
	168.210	1800.00	52.04	11675.06	549.08	29.44	792.00	.15	1724.49	.01	35.00
	168.210	3000.00	52.12	11715.78	549.53	29.52	792.00	.26	1042.98	.01	35.00
	168.210	5000.00	52.32	11827.35	550.75	29.72	792.00	.42	634.54	.02	35.00
	168.440	648.00	52.01	9704.39	555.95	25.21	1214.00	.07	4757.37	.00	35.00
	168.440	1080.00	52.02	9709.84	556.01	25.22	1214.00	.11	2863.36	.00	35.00
	168.440	1800.00	52.04	9724.88	556.17	25.24	1214.00	.19	1726.31	.01	35.00
	168.440	3000.00	52.12	9766.44	556.62	25.32	1214.00	.31	1044.08	.01	35.00
	168.440	5000.00	52.32	9880.27	557.86	25.52	1214.00	.51	635.21	.02	35.00
*	168.620	648.00	52.01	11819.83	504.34	32.51	950.00	.05	4762.19	.00	35.00
*	168.620	1080.00	52.02	11824.80	504.36	32.52	950.00	.09	2866.25	.00	35.00
*	168.620	1800.00	52.04	11838.53	504.42	32.54	950.00	.15	1728.04	.01	35.00

*	168.620	3000.00	52.12	11876.46	504.58	32.62	950.00	.25	1045.12	.01	35.00
*	168.620	5000.00	52.32	11980.21	505.00	32.82	950.00	.42	635.84	.02	35.00
	168.800	648.00	52.01	13766.45	510.66	43.21	950.00	.05	4767.79	.00	35.00
	168.800	1080.00	52.02	13771.54	510.69	43.22	950.00	.08	2869.61	.00	35.00
	168.800	1800.00	52.04	13785.59	510.77	43.24	950.00	.13	1730.06	.00	35.00
	168.800	3000.00	52.12	13824.38	510.99	43.32	950.00	.22	1046.34	.01	35.00
	168.800	5000.00	52.33	13930.53	511.60	43.53	950.00	.36	636.57	.01	35.00
*	168.970	648.00	52.01	9653.60	452.88	35.01	897.00	.07	4771.50	.00	35.00
*	168.970	1080.00	52.02	9658.13	452.92	35.02	897.00	.11	2871.84	.00	35.00
*	168.970	1800.00	52.04	9670.61	453.03	35.04	897.00	.19	1731.40	.01	35.00
*	168.970	3000.00	52.12	9705.11	453.33	35.12	897.00	.31	1047.14	.01	35.00
*	168.970	5000.00	52.33	9799.51	454.14	35.33	897.00	.51	637.06	.02	35.00
	169.380	648.00	52.01	10978.64	415.13	42.91	2164.00	.06	4781.69	.00	35.00
	169.380	1080.00	52.02	10982.81	415.21	42.92	2164.00	.10	2877.95	.00	35.00
	169.380	1800.00	52.04	10994.35	415.41	42.94	2164.00	.16	1735.07	.01	35.00
	169.380	3000.00	52.12	11026.23	415.99	43.02	2164.00	.27	1049.35	.01	35.00
	169.380	5000.00	52.33	11113.58	417.55	43.23	2164.00	.45	638.40	.02	35.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
169.590	648.00	52.01	13988.42	499.72	47.01	1108.00	.05	4788.33	.00	35.00
169.590	1080.00	52.02	13993.51	499.80	47.02	1108.00	.08	2881.94	.00	35.00
169.590	1800.00	52.04	14007.54	500.03	47.04	1108.00	.13	1737.47	.00	35.00
169.590	3000.00	52.12	14046.33	500.67	47.12	1108.00	.21	1050.79	.01	35.00
169.590	5000.00	52.33	14152.58	502.41	47.33	1108.00	.35	639.27	.01	35.00
169.800	648.00	52.01	14289.33	735.62	30.11	1108.00	.05	4795.12	.00	35.00
169.800	1080.00	52.02	14296.86	738.07	30.12	1108.00	.08	2886.01	.00	35.00
169.800	1800.00	52.04	14317.78	744.86	30.14	1108.00	.13	1739.92	.01	35.00
169.800	3000.00	52.12	14376.50	759.32	30.22	1108.00	.21	1052.27	.01	35.00
169.800	5000.00	52.33	14539.22	769.40	30.43	1108.00	.34	640.16	.01	35.00
170.000	648.00	52.01	13707.52	686.15	40.21	1056.00	.05	4801.32	.00	35.00
170.000	1080.00	52.02	13714.56	686.29	40.22	1056.00	.08	2889.74	.00	35.00
170.000	1800.00	52.04	13733.99	686.69	40.24	1056.00	.13	1742.16	.01	35.00
170.000	3000.00	52.12	13787.72	687.79	40.32	1056.00	.22	1053.62	.01	35.00
170.000	5000.00	52.34	13934.95	690.78	40.54	1056.00	.36	640.98	.01	35.00
170.200	648.00	52.01	10256.86	521.71	38.01	1056.00	.06	4805.97	.00	35.00
170.200	1080.00	52.02	10262.24	521.78	38.02	1056.00	.11	2892.53	.00	35.00
170.200	1800.00	52.04	10277.08	521.97	38.04	1056.00	.18	1743.83	.01	35.00
170.200	3000.00	52.12	10318.10	522.51	38.12	1056.00	.29	1054.62	.01	35.00
170.200	5000.00	52.34	10430.38	523.98	38.34	1056.00	.48	641.59	.02	35.00
170.580	648.00	52.01	11559.04	676.77	23.01	2006.00	.06	4815.91	.00	35.00
170.580	1080.00	52.02	11566.08	676.93	23.02	2006.00	.09	2898.49	.00	35.00
170.580	1800.00	52.05	11585.53	677.39	23.05	2006.00	.16	1747.42	.01	35.00

	170.580	3000.00	52.12	11639.29	678.66	23.12	2006.00	.26	1056.79	.01	35.00
	170.580	5000.00	52.34	11786.65	682.12	23.34	2006.00	.42	642.91	.02	35.00
*	170.960	648.00	52.01	11707.44	384.28	45.91	2006.00	.06	4825.97	.00	35.00
*	170.960	1080.00	52.02	11711.52	384.34	45.92	2006.00	.09	2904.54	.00	35.00
*	170.960	1800.00	52.05	11722.77	384.49	45.95	2006.00	.15	1751.05	.00	35.00
*	170.960	3000.00	52.13	11753.86	384.90	46.03	2006.00	.26	1058.97	.01	35.00
*	170.960	5000.00	52.35	11838.91	386.03	46.25	2006.00	.42	644.23	.01	35.00
	171.400	648.00	52.01	13072.90	549.31	40.21	2323.00	.05	4838.99	.00	35.00
	171.400	1080.00	52.02	13078.77	549.38	40.22	2323.00	.08	2912.35	.00	35.00
	171.400	1800.00	52.05	13094.96	549.57	40.25	2323.00	.14	1755.74	.00	35.00
	171.400	3000.00	52.13	13139.70	550.11	40.33	2323.00	.23	1061.80	.01	35.00
	171.400	5000.00	52.35	13262.01	551.57	40.55	2323.00	.38	645.94	.01	35.00
	171.600	648.00	52.01	11073.87	450.46	34.01	1056.00	.06	4844.01	.00	35.00
	171.600	1080.00	52.02	11078.69	450.73	34.02	1056.00	.10	2915.36	.00	35.00
	171.600	1800.00	52.05	11092.01	451.47	34.05	1056.00	.16	1757.55	.01	35.00
	171.600	3000.00	52.13	11128.88	453.53	34.13	1056.00	.27	1062.88	.01	35.00
	171.600	5000.00	52.35	11230.38	459.13	34.35	1056.00	.45	646.60	.02	35.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
171.800	648.00	52.01	9483.34	405.88	35.31	1056.00	.07	4848.30	.00	35.00
171.800	1080.00	52.02	9487.69	405.98	35.32	1056.00	.11	2917.94	.00	35.00
171.800	1800.00	52.05	9499.72	406.26	35.35	1056.00	.19	1759.10	.01	35.00
171.800	3000.00	52.13	9532.95	407.03	35.43	1056.00	.31	1063.82	.01	35.00
171.800	5000.00	52.35	9624.00	409.13	35.65	1056.00	.52	647.16	.02	35.00
172.000	648.00	52.01	9205.58	423.70	28.91	1056.00	.07	4852.47	.00	35.00
172.000	1080.00	52.02	9210.15	423.77	28.92	1056.00	.12	2920.44	.00	35.00
172.000	1800.00	52.05	9222.76	423.97	28.95	1056.00	.20	1760.60	.01	35.00
172.000	3000.00	52.13	9257.62	424.51	29.03	1056.00	.32	1064.72	.01	35.00
172.000	5000.00	52.35	9352.99	425.99	29.25	1056.00	.53	647.71	.02	35.00
172.200	648.00	52.01	9555.75	450.13	26.91	1056.00	.07	4856.79	.00	35.00
172.200	1080.00	52.02	9560.64	450.18	26.92	1056.00	.11	2923.03	.00	35.00
172.200	1800.00	52.05	9574.16	450.32	26.95	1056.00	.19	1762.16	.01	35.00
172.200	3000.00	52.13	9611.49	450.70	27.03	1056.00	.31	1065.66	.01	35.00
172.200	5000.00	52.36	9713.53	451.75	27.26	1056.00	.51	648.28	.02	35.00
172.400	648.00	52.01	8182.88	424.96	26.31	1056.00	.08	4860.50	.00	35.00
172.400	1080.00	52.02	8187.54	425.10	26.32	1056.00	.13	2925.26	.01	35.00
172.400	1800.00	52.05	8200.43	425.48	26.35	1056.00	.22	1763.50	.01	35.00
172.400	3000.00	52.13	8236.04	426.51	26.43	1056.00	.36	1066.47	.01	35.00
172.400	5000.00	52.36	8333.68	429.35	26.66	1056.00	.60	648.77	.02	35.00
172.500	648.00	52.01	8703.34	477.07	22.41	528.00	.07	4862.46	.00	35.00
172.500	1080.00	52.02	8708.60	477.11	22.42	528.00	.12	2926.44	.01	35.00
172.500	1800.00	52.05	8723.11	477.22	22.45	528.00	.21	1764.21	.01	35.00

	172.500	3000.00	52.13	8763.17	477.53	22.53	528.00	.34	1066.89	.01	35.00
	172.500	5000.00	52.36	8872.58	478.37	22.76	528.00	.56	649.03	.02	35.00
	172.700	648.00	52.01	7609.17	420.01	23.21	1056.00	.09	4865.91	.00	35.00
	172.700	1080.00	52.02	7613.86	420.12	23.22	1056.00	.14	2928.51	.01	35.00
	172.700	1800.00	52.05	7626.82	420.41	23.25	1056.00	.24	1765.45	.01	35.00
	172.700	3000.00	52.13	7662.63	421.23	23.33	1056.00	.39	1067.64	.02	35.00
	172.700	5000.00	52.36	7760.65	423.62	23.56	1056.00	.64	649.48	.03	35.00
*	172.900	648.00	52.01	10356.86	467.07	32.41	1056.00	.06	4870.60	.00	35.00
*	172.900	1080.00	52.02	10362.13	467.15	32.42	1056.00	.10	2931.32	.00	35.00
*	172.900	1800.00	52.05	10376.70	467.38	32.45	1056.00	.17	1767.14	.01	35.00
*	172.900	3000.00	52.14	10416.93	467.90	32.54	1056.00	.29	1068.66	.01	35.00
*	172.900	5000.00	52.37	10526.76	468.90	32.77	1056.00	.47	650.10	.02	35.00
	173.100	648.00	52.01	11517.98	522.74	30.11	1056.00	.06	4875.81	.00	35.00
	173.100	1080.00	52.02	11523.98	522.85	30.12	1056.00	.09	2934.45	.00	35.00
	173.100	1800.00	52.05	11540.53	523.15	30.15	1056.00	.16	1769.02	.01	35.00
	173.100	3000.00	52.14	11586.25	523.97	30.24	1056.00	.26	1069.80	.01	35.00
	173.100	5000.00	52.37	11711.21	526.23	30.47	1056.00	.43	650.79	.02	35.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
174.600	648.00	52.01	9737.05	485.19	30.41	7920.00	.07	4908.87	.00	35.00
174.600	1080.00	52.02	9742.82	485.29	30.42	7920.00	.11	2954.30	.00	35.00
174.600	1800.00	52.05	9758.76	485.57	30.45	7920.00	.18	1780.95	.01	35.00
174.600	3000.00	52.14	9802.75	486.32	30.54	7920.00	.31	1076.98	.01	35.00
174.600	5000.00	52.39	9922.88	488.36	30.79	7920.00	.50	655.15	.02	35.00
174.800	648.00	52.01	9781.99	372.92	41.41	1056.00	.07	4913.30	.00	35.00
174.800	1080.00	52.02	9786.45	372.96	41.42	1056.00	.11	2956.96	.00	35.00
174.800	1800.00	52.05	9798.80	373.09	41.45	1056.00	.18	1782.54	.01	35.00
174.800	3000.00	52.14	9832.87	373.44	41.54	1056.00	.31	1077.95	.01	35.00
174.800	5000.00	52.39	9925.76	374.40	41.79	1056.00	.50	655.74	.02	35.00
174.900	648.00	52.01	10058.80	470.10	34.01	528.00	.06	4915.57	.00	35.00
174.900	1080.00	52.02	10064.45	470.21	34.02	528.00	.11	2958.32	.00	35.00
174.900	1800.00	52.05	10080.08	470.51	34.05	528.00	.18	1783.37	.01	35.00
174.900	3000.00	52.14	10123.19	471.34	34.14	528.00	.30	1078.44	.01	35.00
174.900	5000.00	52.39	10240.94	473.61	34.39	528.00	.49	656.04	.02	35.00
175.600	648.00	52.01	8996.84	476.49	27.21	3696.00	.07	4929.83	.00	35.00
175.600	1080.00	52.02	9002.69	476.58	27.22	3696.00	.12	2966.88	.00	35.00
175.600	1800.00	52.05	9018.84	476.81	27.25	3696.00	.20	1788.51	.01	35.00
175.600	3000.00	52.15	9063.41	477.47	27.35	3696.00	.33	1081.54	.01	35.00
175.600	5000.00	52.40	9184.99	479.25	27.60	3696.00	.54	657.92	.02	35.00
175.800	648.00	52.01	8463.39	416.86	27.91	1056.00	.08	4933.66	.00	35.00
175.800	1080.00	52.02	8468.56	416.92	27.92	1056.00	.13	2969.18	.00	35.00
175.800	1800.00	52.05	8482.86	417.09	27.95	1056.00	.21	1789.89	.01	35.00

175.800	3000.00	52.15	8522.30	417.55	28.05	1056.00	.35	1082.38	.01	35.00
175.800	5000.00	52.41	8629.79	418.79	28.31	1056.00	.58	658.43	.02	35.00
176.000	648.00	52.01	9220.36	406.46	31.11	1056.00	.07	4937.83	.00	35.00
176.000	1080.00	52.02	9225.45	406.58	31.12	1056.00	.12	2971.69	.00	35.00
176.000	1800.00	52.05	9239.53	406.90	31.15	1056.00	.19	1791.40	.01	35.00
176.000	3000.00	52.15	9278.39	408.14	31.25	1056.00	.32	1083.28	.01	35.00
176.000	5000.00	52.41	9384.79	412.41	31.51	1056.00	.53	658.98	.02	35.00
176.200	648.00	52.01	8165.61	394.82	30.81	1056.00	.08	4941.53	.00	35.00
176.200	1080.00	52.02	8170.60	394.88	30.82	1056.00	.13	2973.91	.01	35.00
176.200	1800.00	52.05	8184.39	395.05	30.85	1056.00	.22	1792.73	.01	35.00
176.200	3000.00	52.15	8222.43	395.52	30.95	1056.00	.36	1084.09	.01	35.00
176.200	5000.00	52.41	8326.06	396.80	31.21	1056.00	.60	659.47	.02	35.00
176.800	648.00	52.01	9392.80	703.34	26.11	3168.00	.07	4954.29	.00	35.00
176.800	1080.00	52.02	9401.88	703.43	26.12	3168.00	.11	2981.57	.01	35.00
176.800	1800.00	52.06	9426.98	703.66	26.16	3168.00	.19	1797.34	.01	35.00
176.800	3000.00	52.16	9496.18	704.29	26.26	3168.00	.32	1086.87	.02	35.00
176.800	5000.00	52.43	9684.54	706.02	26.53	3168.00	.52	661.17	.02	35.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	177.200	648.00	52.01	8805.79	500.47	25.11	2112.00	.07	4962.26	.00	35.00
	177.200	1080.00	52.02	8812.46	500.56	25.12	2112.00	.12	2986.35	.01	35.00
	177.200	1800.00	52.06	8830.92	500.82	25.16	2112.00	.20	1800.22	.01	35.00
	177.200	3000.00	52.16	8881.79	501.51	25.26	2112.00	.34	1088.61	.01	35.00
	177.200	5000.00	52.43	9020.14	503.38	25.53	2112.00	.55	662.23	.02	35.00
	177.400	648.00	52.01	9477.11	355.25	41.91	1056.00	.07	4966.55	.00	35.00
	177.400	1080.00	52.02	9481.90	355.32	41.92	1056.00	.11	2988.93	.00	35.00
	177.400	1800.00	52.06	9495.13	355.54	41.96	1056.00	.19	1801.77	.01	35.00
	177.400	3000.00	52.16	9531.60	356.18	42.06	1056.00	.31	1089.54	.01	35.00
	177.400	5000.00	52.44	9630.79	357.96	42.34	1056.00	.52	662.80	.02	35.00
	177.600	648.00	52.01	10180.14	402.52	40.91	1056.00	.06	4971.16	.00	35.00
	177.600	1080.00	52.02	10185.59	402.60	40.92	1056.00	.11	2991.70	.00	35.00
	177.600	1800.00	52.06	10200.65	402.80	40.96	1056.00	.18	1803.43	.01	35.00
	177.600	3000.00	52.16	10242.15	403.38	41.06	1056.00	.29	1090.54	.01	35.00
	177.600	5000.00	52.44	10354.94	404.93	41.34	1056.00	.48	663.40	.02	35.00
*	178.200	648.00	52.01	6634.83	428.10	18.91	3168.00	.10	4980.17	.00	35.00
*	178.200	1080.00	52.02	6640.71	428.17	18.92	3168.00	.16	2997.11	.01	35.00
*	178.200	1800.00	52.06	6656.93	428.37	18.96	3168.00	.27	1806.68	.01	35.00
*	178.200	3000.00	52.16	6701.62	428.91	19.06	3168.00	.45	1092.51	.02	35.00
*	178.200	5000.00	52.45	6823.06	430.38	19.35	3168.00	.73	664.60	.03	35.00
	178.400	648.00	52.01	6598.96	405.98	19.21	1056.00	.10	4983.15	.00	35.00
	178.400	1080.00	52.02	6604.61	406.09	19.22	1056.00	.16	2998.90	.01	35.00
	178.400	1800.00	52.06	6620.21	406.40	19.26	1056.00	.27	1807.76	.01	35.00

178.400	3000.00	52.17	6663.23	407.26	19.37	1056.00	.45	1093.16	.02	35.00
178.400	5000.00	52.46	6780.22	409.57	19.66	1056.00	.74	665.00	.03	35.00
178.700	648.00	52.01	10636.00	858.14	22.01	1584.00	.06	4990.38	.00	35.00
178.700	1080.00	52.02	10648.34	858.42	22.02	1584.00	.10	3003.24	.01	35.00
178.700	1800.00	52.06	10682.46	859.20	22.06	1584.00	.17	1810.37	.01	35.00
178.700	3000.00	52.17	10776.46	861.35	22.17	1584.00	.28	1094.74	.01	35.00
178.700	5000.00	52.47	11031.88	867.16	22.47	1584.00	.45	665.97	.02	35.00
178.800	648.00	52.01	7413.73	498.23	23.21	528.00	.09	4992.05	.00	35.00
178.800	1080.00	52.02	7420.98	498.36	23.22	528.00	.15	3004.25	.01	35.00
178.800	1800.00	52.06	7441.01	498.74	23.26	528.00	.24	1810.98	.01	35.00
178.800	3000.00	52.17	7496.17	499.77	23.37	528.00	.40	1095.11	.02	35.00
178.800	5000.00	52.47	7645.89	502.56	23.67	528.00	.65	666.20	.03	35.00
180.100	648.00	52.01	8061.76	479.45	22.41	6864.00	.08	5015.78	.00	35.00
180.100	1080.00	52.02	8069.25	479.54	22.42	6864.00	.13	3018.49	.01	35.00
180.100	1800.00	52.07	8089.93	479.79	22.47	6864.00	.22	1819.55	.01	35.00
180.100	3000.00	52.19	8146.75	480.49	22.59	6864.00	.37	1100.28	.02	35.00
180.100	5000.00	52.51	8300.19	482.35	22.91	6864.00	.60	669.36	.03	35.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
*	180.300	648.00	52.01	8580.79	491.33	25.81	1056.00	.08	5019.66	.00	25.00
*	180.300	1080.00	52.02	8588.60	491.47	25.82	1056.00	.13	3020.83	.01	25.00
*	180.300	1800.00	52.07	8610.17	491.84	25.87	1056.00	.21	1820.95	.01	25.00
*	180.300	3000.00	52.19	8669.47	492.87	25.99	1056.00	.35	1101.13	.01	25.00
*	180.300	5000.00	52.51	8829.72	495.64	26.31	1056.00	.57	669.88	.02	25.00
	180.540	648.00	52.01	8127.54	435.24	27.11	1267.00	.08	5024.07	.00	25.00
	180.540	1080.00	52.02	8134.49	435.35	27.12	1267.00	.13	3023.48	.01	25.00
	180.540	1800.00	52.07	8153.68	435.67	27.17	1267.00	.22	1822.55	.01	25.00
	180.540	3000.00	52.19	8206.43	436.53	27.29	1267.00	.37	1102.09	.01	25.00
	180.540	5000.00	52.51	8348.95	438.98	27.61	1267.00	.60	670.47	.02	25.00
	180.730	648.00	52.01	7453.21	403.28	25.41	1003.00	.09	5027.28	.00	25.00
	180.730	1080.00	52.02	7459.65	403.36	25.42	1003.00	.14	3025.40	.01	25.00
	180.730	1800.00	52.07	7477.43	403.58	25.47	1003.00	.24	1823.70	.01	25.00
	180.730	3000.00	52.19	7526.27	404.19	25.59	1003.00	.40	1102.79	.02	25.00
	180.730	5000.00	52.51	7658.13	405.82	25.91	1003.00	.65	670.90	.03	25.00
	183.970	648.00	52.01	7242.43	489.69	18.11	17107.00	.09	5080.39	.00	25.00
	183.970	1080.00	52.03	7250.84	489.77	18.13	17107.00	.15	3057.30	.01	25.00
	183.970	1800.00	52.08	7274.08	490.02	18.18	17107.00	.25	1842.91	.01	25.00
	183.970	3000.00	52.21	7337.85	490.69	18.31	17107.00	.41	1114.42	.02	25.00
	183.970	5000.00	52.56	7512.03	492.53	18.66	17107.00	.67	678.03	.03	25.00
	184.060	648.00	52.01	7126.41	577.18	21.31	475.00	.09	5081.84	.00	25.00
	184.060	1080.00	52.03	7136.56	577.35	21.33	475.00	.15	3058.18	.01	25.00
	184.060	1800.00	52.08	7164.57	577.80	21.38	475.00	.25	1843.43	.01	25.00

	184.060	3000.00	52.21	7241.47	579.05	21.51	475.00	.41	1114.74	.02	25.00
	184.060	5000.00	52.57	7448.33	582.40	21.87	475.00	.67	678.23	.03	25.00
*	184.900	648.00	52.01	11403.47	1022.73	19.11	4434.00	.06	5103.51	.00	25.00
*	184.900	1080.00	52.03	11422.05	1022.84	19.13	4434.00	.09	3071.20	.00	25.00
*	184.900	1800.00	52.08	11473.31	1023.16	19.18	4434.00	.16	1851.28	.01	25.00
*	184.900	3000.00	52.22	11613.75	1024.02	19.32	4434.00	.26	1119.50	.01	25.00
*	184.900	5000.00	52.58	11989.79	1026.33	19.68	4434.00	.42	681.18	.02	25.00
*	185.380	648.00	52.01	6508.82	517.79	17.01	2534.00	.10	5110.58	.00	25.00
*	185.380	1080.00	52.03	6518.36	517.88	17.03	2534.00	.17	3075.45	.01	25.00
*	185.380	1800.00	52.08	6544.69	518.13	17.08	2534.00	.28	1853.84	.01	25.00
*	185.380	3000.00	52.22	6616.80	518.83	17.22	2534.00	.45	1121.06	.02	25.00
*	185.380	5000.00	52.59	6809.82	520.67	17.59	2534.00	.73	682.14	.04	25.00
	186.160	648.00	52.01	7221.98	505.29	17.81	4118.00	.09	5123.33	.00	25.00
	186.160	1080.00	52.03	7231.47	505.41	17.83	4118.00	.15	3083.11	.01	25.00
	186.160	1800.00	52.08	7257.63	505.72	17.88	4118.00	.25	1858.45	.01	25.00
	186.160	3000.00	52.22	7329.26	506.57	18.02	4118.00	.41	1123.85	.02	25.00
	186.160	5000.00	52.60	7520.73	508.84	18.40	4118.00	.66	683.86	.03	25.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	186.370	648.00	52.01	8333.98	496.76	24.81	1108.00	.08	5127.29	.00	25.00
	186.370	1080.00	52.03	8343.46	496.90	24.83	1108.00	.13	3085.49	.01	25.00
	186.370	1800.00	52.08	8369.61	497.30	24.88	1108.00	.22	1859.89	.01	25.00
	186.370	3000.00	52.23	8441.19	498.39	25.03	1108.00	.36	1124.72	.02	25.00
	186.370	5000.00	52.61	8632.55	501.31	25.41	1108.00	.58	684.40	.02	25.00
	186.590	648.00	52.01	8120.95	482.01	21.91	1161.00	.08	5131.33	.00	25.00
	186.590	1080.00	52.03	8130.20	482.14	21.93	1161.00	.13	3087.91	.01	25.00
	186.590	1800.00	52.08	8155.71	482.48	21.98	1161.00	.22	1861.35	.01	25.00
	186.590	3000.00	52.23	8225.55	483.41	22.13	1161.00	.36	1125.60	.02	25.00
	186.590	5000.00	52.61	8412.11	485.89	22.51	1161.00	.59	684.94	.03	25.00
*	186.800	648.00	52.01	6656.74	557.70	15.91	1108.00	.10	5134.50	.00	25.00
*	186.800	1080.00	52.03	6667.46	557.82	15.93	1108.00	.16	3089.81	.01	25.00
*	186.800	1800.00	52.08	6697.06	558.17	15.98	1108.00	.27	1862.49	.01	25.00
*	186.800	3000.00	52.23	6778.20	561.38	16.13	1108.00	.44	1126.30	.02	25.00
*	186.800	5000.00	52.61	6996.64	570.72	16.51	1108.00	.71	685.37	.04	25.00
	188.210	648.00	52.01	7202.57	430.27	22.01	7445.00	.09	5157.48	.00	25.00
	188.210	1080.00	52.03	7211.24	430.40	22.03	7445.00	.15	3103.62	.01	25.00
	188.210	1800.00	52.09	7235.15	430.76	22.09	7445.00	.25	1870.80	.01	25.00
	188.210	3000.00	52.24	7300.55	431.75	22.24	7445.00	.41	1131.33	.02	25.00
	188.210	5000.00	52.64	7474.85	434.38	22.64	7445.00	.67	688.46	.03	25.00
	188.410	648.00	52.01	7221.12	472.39	22.01	1056.00	.09	5160.75	.00	25.00
	188.410	1080.00	52.03	7230.74	472.83	22.03	1056.00	.15	3105.59	.01	25.00
	188.410	1800.00	52.09	7257.29	474.02	22.09	1056.00	.25	1871.99	.01	25.00

	188.410	3000.00	52.24	7330.11	477.29	22.24	1056.00	.41	1132.05	.02	25.00
	188.410	5000.00	52.65	7525.71	485.96	22.65	1056.00	.66	688.90	.03	25.00
	188.620	648.00	52.01	7967.76	398.94	29.21	1108.00	.08	5164.54	.00	25.00
	188.620	1080.00	52.03	7975.91	399.02	29.23	1108.00	.14	3107.86	.01	25.00
	188.620	1800.00	52.09	7998.38	399.25	29.29	1108.00	.23	1873.35	.01	25.00
	188.620	3000.00	52.24	8059.80	399.89	29.44	1108.00	.37	1132.87	.01	25.00
	188.620	5000.00	52.65	8223.19	401.59	29.85	1108.00	.61	689.41	.02	25.00
*	188.810	648.00	52.01	7404.55	618.13	19.91	1003.00	.09	5167.72	.00	25.00
*	188.810	1080.00	52.03	7417.25	619.11	19.93	1003.00	.15	3109.77	.01	25.00
*	188.810	1800.00	52.09	7452.37	621.82	19.99	1003.00	.24	1874.51	.01	25.00
*	188.810	3000.00	52.24	7548.99	629.20	20.14	1003.00	.40	1133.57	.02	25.00
*	188.810	5000.00	52.65	7810.30	643.03	20.55	1003.00	.64	689.84	.03	25.00
*	189.410	648.00	52.01	9731.55	527.00	24.41	3164.00	.07	5180.92	.00	25.00
*	189.410	1080.00	52.03	9742.54	527.17	24.43	3164.00	.11	3117.70	.00	25.00
*	189.410	1800.00	52.09	9772.83	527.62	24.49	3164.00	.18	1879.28	.01	25.00
*	189.410	3000.00	52.25	9855.63	528.86	24.65	3164.00	.30	1136.46	.01	25.00
*	189.410	5000.00	52.66	10076.35	534.02	25.06	3164.00	.50	691.61	.02	25.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
*	189.610	648.00	52.01	6026.78	509.58	16.71	1056.00	.11	5183.65	.01	25.00
*	189.610	1080.00	52.03	6037.45	509.71	16.73	1056.00	.18	3119.34	.01	25.00
*	189.610	1800.00	52.09	6066.90	510.07	16.79	1056.00	.30	1880.27	.02	25.00
*	189.610	3000.00	52.25	6147.33	511.04	16.95	1056.00	.49	1137.06	.02	25.00
*	189.610	5000.00	52.66	6361.17	513.61	17.36	1056.00	.79	691.99	.04	25.00
	189.830	648.00	52.01	6937.86	434.29	20.11	1161.00	.09	5187.10	.00	25.00
	189.830	1080.00	52.03	6946.96	434.39	20.13	1161.00	.16	3121.42	.01	25.00
	189.830	1800.00	52.09	6972.06	434.67	20.19	1161.00	.26	1881.52	.01	25.00
	189.830	3000.00	52.25	7040.62	435.43	20.35	1161.00	.43	1137.82	.02	25.00
	189.830	5000.00	52.67	7222.80	437.43	20.77	1161.00	.69	692.45	.03	25.00
	190.000	648.00	52.01	8204.95	416.22	29.01	897.00	.08	5190.25	.00	25.00
	190.000	1080.00	52.03	8213.78	416.34	29.03	897.00	.13	3123.31	.01	25.00
	190.000	1800.00	52.09	8238.13	416.68	29.09	897.00	.22	1882.66	.01	25.00
	190.000	3000.00	52.25	8304.63	417.60	29.25	897.00	.36	1138.51	.01	25.00
	190.000	5000.00	52.67	8481.30	420.03	29.67	897.00	.59	692.88	.02	25.00
	190.410	648.00	52.01	8201.69	500.68	21.11	2164.00	.08	5197.86	.00	25.00
	190.410	1080.00	52.03	8212.41	500.82	21.13	2164.00	.13	3127.88	.01	25.00
	190.410	1800.00	52.09	8241.95	501.22	21.19	2164.00	.22	1885.41	.01	25.00
	190.410	3000.00	52.25	8322.63	502.30	21.35	2164.00	.36	1140.18	.02	25.00
	190.410	5000.00	52.68	8536.92	505.16	21.78	2164.00	.59	693.90	.03	25.00
*	190.600	648.00	52.01	6702.53	525.43	18.31	1003.00	.10	5200.74	.00	25.00
*	190.600	1080.00	52.03	6713.79	526.16	18.33	1003.00	.16	3129.61	.01	25.00
*	190.600	1800.00	52.09	6744.92	528.17	18.39	1003.00	.27	1886.45	.01	25.00

*	190.600	3000.00	52.25	6830.41	533.66	18.55	1003.00	.44	1140.81	.02	25.00
*	190.600	5000.00	52.68	7060.87	548.18	18.98	1003.00	.71	694.30	.03	25.00
	190.990	648.00	52.01	6996.06	446.78	22.81	2059.00	.09	5206.92	.00	25.00
	190.990	1080.00	52.03	7005.74	446.92	22.83	2059.00	.15	3133.32	.01	25.00
	190.990	1800.00	52.09	7032.41	447.28	22.89	2059.00	.26	1888.69	.01	25.00
	190.990	3000.00	52.26	7105.23	448.27	23.06	2059.00	.42	1142.17	.02	25.00
	190.990	5000.00	52.69	7298.62	450.90	23.49	2059.00	.69	695.13	.03	25.00
	191.190	648.00	52.01	6620.08	385.79	23.21	1056.00	.10	5209.92	.00	25.00
	191.190	1080.00	52.03	6628.51	385.87	23.23	1056.00	.16	3135.12	.01	25.00
	191.190	1800.00	52.09	6651.74	386.10	23.29	1056.00	.27	1889.77	.01	25.00
	191.190	3000.00	52.26	6715.14	386.73	23.46	1056.00	.45	1142.82	.02	25.00
	191.190	5000.00	52.69	6883.16	388.38	23.89	1056.00	.73	695.53	.03	25.00
	191.240	648.00	52.01	6529.67	433.62	20.01	264.00	.10	5210.65	.00	25.00
	191.240	1080.00	52.03	6539.13	433.75	20.03	264.00	.17	3135.57	.01	25.00
	191.240	1800.00	52.09	6565.23	434.11	20.09	264.00	.27	1890.04	.01	25.00
	191.240	3000.00	52.26	6636.47	434.99	20.26	264.00	.45	1142.98	.02	25.00
	191.240	5000.00	52.69	6825.47	437.71	20.69	264.00	.73	695.63	.03	25.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
*	192.370	648.00	52.01	12045.60	588.02	32.81	5967.00	.05	5241.46	.00	25.00
*	192.370	1080.00	52.03	12058.86	588.12	32.83	5967.00	.09	3154.08	.00	25.00
*	192.370	1800.00	52.10	12095.42	588.38	32.90	5967.00	.15	1901.18	.01	25.00
*	192.370	3000.00	52.26	12195.07	589.11	33.06	5967.00	.25	1149.72	.01	25.00
*	192.370	5000.00	52.71	12458.52	591.02	33.51	5967.00	.40	699.76	.02	25.00
*	192.580	648.00	52.01	6060.09	491.33	14.91	1108.00	.11	5244.34	.01	25.00
*	192.580	1080.00	52.03	6071.11	491.38	14.93	1108.00	.18	3155.81	.01	25.00
*	192.580	1800.00	52.10	6101.47	491.54	15.00	1108.00	.30	1902.22	.01	25.00
*	192.580	3000.00	52.26	6184.25	491.95	15.16	1108.00	.49	1150.36	.02	25.00
*	192.580	5000.00	52.70	6403.09	493.04	15.60	1108.00	.78	700.16	.04	25.00
	192.820	648.00	52.01	6157.99	462.01	19.11	1267.00	.11	5247.69	.01	25.00
	192.820	1080.00	52.04	6168.32	462.11	19.14	1267.00	.18	3157.82	.01	25.00
	192.820	1800.00	52.10	6196.82	462.36	19.20	1267.00	.29	1903.43	.01	25.00
	192.820	3000.00	52.27	6274.56	463.05	19.37	1267.00	.48	1151.09	.02	25.00
	192.820	5000.00	52.71	6480.28	464.88	19.81	1267.00	.77	700.61	.04	25.00
*	193.230	648.00	52.01	11518.62	674.51	24.01	2164.00	.06	5258.37	.00	25.00
*	193.230	1080.00	52.04	11534.06	674.71	24.04	2164.00	.09	3164.24	.00	25.00
*	193.230	1800.00	52.10	11576.64	675.28	24.10	2164.00	.16	1907.30	.01	25.00
*	193.230	3000.00	52.27	11692.70	676.83	24.27	2164.00	.26	1153.44	.01	25.00
*	193.230	5000.00	52.72	11999.68	680.90	24.72	2164.00	.42	702.06	.02	25.00
	193.450	648.00	52.01	12320.64	505.33	30.21	1161.00	.05	5264.50	.00	25.00
	193.450	1080.00	52.04	12332.27	505.46	30.24	1161.00	.09	3167.92	.00	25.00
	193.450	1800.00	52.10	12364.30	505.79	30.30	1161.00	.15	1909.51	.01	25.00

	193.450	3000.00	52.27	12451.63	507.17	30.47	1161.00	.24	1154.77	.01	25.00
	193.450	5000.00	52.72	12683.30	512.47	30.92	1161.00	.39	702.88	.01	25.00
	193.610	648.00	52.01	12404.38	500.88	31.21	844.00	.05	5268.99	.00	25.00
	193.610	1080.00	52.04	12415.87	501.10	31.24	844.00	.09	3170.61	.00	25.00
	193.610	1800.00	52.10	12447.56	501.70	31.30	844.00	.14	1911.14	.01	25.00
	193.610	3000.00	52.27	12534.01	503.12	31.47	844.00	.24	1155.75	.01	25.00
	193.610	5000.00	52.72	12762.83	506.09	31.92	844.00	.39	703.47	.01	25.00
*	194.130	648.00	52.01	7897.43	415.88	23.71	2746.00	.08	5278.29	.00	25.00
*	194.130	1080.00	52.04	7906.99	415.97	23.74	2746.00	.14	3176.20	.01	25.00
*	194.130	1800.00	52.10	7933.34	416.25	23.80	2746.00	.23	1914.50	.01	25.00
*	194.130	3000.00	52.27	8005.17	416.99	23.97	2746.00	.37	1157.79	.02	25.00
*	194.130	5000.00	52.72	8195.10	418.94	24.42	2746.00	.61	704.72	.02	25.00
*	194.430	648.00	52.01	6021.05	371.81	24.71	1584.00	.11	5282.38	.00	25.00
*	194.430	1080.00	52.04	6029.61	372.00	24.74	1584.00	.18	3178.65	.01	25.00
*	194.430	1800.00	52.10	6053.21	372.50	24.80	1584.00	.30	1915.98	.01	25.00
*	194.430	3000.00	52.27	6117.63	373.86	24.97	1584.00	.49	1158.69	.02	25.00
*	194.430	5000.00	52.73	6288.52	377.45	25.43	1584.00	.80	705.28	.03	25.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
*	194.580	648.00	52.01	7947.90	361.24	32.01	792.00	.08	5285.08	.00	25.00
*	194.580	1080.00	52.04	7956.24	361.33	32.04	792.00	.14	3180.28	.01	25.00
*	194.580	1800.00	52.10	7979.23	361.57	32.10	792.00	.23	1916.95	.01	25.00
*	194.580	3000.00	52.27	8042.03	363.81	32.27	792.00	.37	1159.28	.01	25.00
*	194.580	5000.00	52.73	8209.35	369.73	32.73	792.00	.61	705.64	.02	25.00
*	194.780	648.00	52.01	6119.56	391.06	26.01	1056.00	.11	5287.85	.00	25.00
*	194.780	1080.00	52.04	6128.68	391.21	26.04	1056.00	.18	3181.94	.01	25.00
*	194.780	1800.00	52.10	6153.83	391.60	26.10	1056.00	.29	1917.96	.01	25.00
*	194.780	3000.00	52.27	6222.42	392.66	26.27	1056.00	.48	1159.88	.02	25.00
*	194.780	5000.00	52.73	6403.93	395.46	26.73	1056.00	.78	706.01	.03	25.00
	194.970	648.00	52.01	6850.46	425.91	23.91	1003.00	.09	5290.79	.00	25.00
	194.970	1080.00	52.04	6860.40	426.11	23.94	1003.00	.16	3183.71	.01	25.00
	194.970	1800.00	52.10	6887.79	426.66	24.00	1003.00	.26	1919.02	.01	25.00
	194.970	3000.00	52.28	6962.55	428.14	24.18	1003.00	.43	1160.53	.02	25.00
	194.970	5000.00	52.74	7160.67	432.06	24.64	1003.00	.70	706.41	.03	25.00
	195.360	648.00	52.01	5614.43	356.82	24.11	2059.00	.12	5295.75	.01	25.00
	195.360	1080.00	52.04	5622.88	356.88	24.14	2059.00	.19	3186.69	.01	25.00
	195.360	1800.00	52.10	5646.17	357.04	24.20	2059.00	.32	1920.82	.01	25.00
	195.360	3000.00	52.28	5709.60	357.47	24.38	2059.00	.53	1161.62	.02	25.00
	195.360	5000.00	52.74	5876.86	358.62	24.84	2059.00	.85	707.09	.04	25.00
	195.560	648.00	52.01	7043.28	418.68	24.11	1056.00	.09	5298.94	.00	25.00
	195.560	1080.00	52.04	7053.23	418.79	24.14	1056.00	.15	3188.60	.01	25.00
	195.560	1800.00	52.10	7080.67	419.07	24.20	1056.00	.25	1921.97	.01	25.00

	195.560	3000.00	52.28	7155.40	419.86	24.38	1056.00	.42	1162.32	.02	25.00
	195.560	5000.00	52.75	7352.65	421.93	24.85	1056.00	.68	707.52	.03	25.00
	195.950	648.00	52.01	6886.63	364.13	24.01	2059.00	.09	5305.01	.00	25.00
	195.950	1080.00	52.04	6895.44	364.26	24.04	2059.00	.16	3192.25	.01	25.00
	195.950	1800.00	52.10	6919.72	364.63	24.10	2059.00	.26	1924.17	.01	25.00
	195.950	3000.00	52.28	6985.88	365.62	24.28	2059.00	.43	1163.65	.02	25.00
	195.950	5000.00	52.76	7160.62	368.24	24.76	2059.00	.70	708.34	.03	25.00
*	196.150	648.00	52.01	4816.49	367.30	23.11	1056.00	.13	5307.19	.01	25.00
*	196.150	1080.00	52.04	4825.38	367.45	23.14	1056.00	.22	3193.57	.01	25.00
*	196.150	1800.00	52.10	4849.88	367.86	23.20	1056.00	.37	1924.96	.02	25.00
*	196.150	3000.00	52.28	4916.65	368.97	23.38	1056.00	.61	1164.13	.03	25.00
*	196.150	5000.00	52.76	5093.10	371.89	23.86	1056.00	.98	708.63	.05	25.00
	196.340	648.00	52.01	5191.40	303.15	27.01	1003.00	.12	5309.43	.01	25.00
	196.340	1080.00	52.04	5198.76	303.28	27.04	1003.00	.21	3194.91	.01	25.00
	196.340	1800.00	52.11	5219.04	303.66	27.11	1003.00	.34	1925.77	.01	25.00
	196.340	3000.00	52.29	5274.34	304.68	27.29	1003.00	.57	1164.62	.02	25.00
	196.340	5000.00	52.77	5420.50	307.36	27.77	1003.00	.92	708.94	.04	25.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	196.540	648.00	52.01	5543.79	402.43	18.01	1056.00	.12	5311.94	.01	25.00
	196.540	1080.00	52.04	5553.70	402.54	18.04	1056.00	.19	3196.41	.01	25.00
	196.540	1800.00	52.11	5581.03	402.83	18.11	1056.00	.32	1926.68	.02	25.00
	196.540	3000.00	52.29	5655.38	403.62	18.29	1056.00	.53	1165.17	.02	25.00
	196.540	5000.00	52.78	5851.21	405.70	18.78	1056.00	.85	709.28	.04	25.00
	196.730	648.00	52.01	5424.89	431.88	18.21	1003.00	.12	5314.27	.01	25.00
	196.730	1080.00	52.04	5435.62	431.98	18.24	1003.00	.20	3197.82	.01	25.00
	196.730	1800.00	52.11	5465.19	432.27	18.31	1003.00	.33	1927.52	.02	25.00
	196.730	3000.00	52.29	5545.64	433.06	18.49	1003.00	.54	1165.69	.03	25.00
	196.730	5000.00	52.78	5757.45	435.13	18.98	1003.00	.87	709.60	.04	25.00
	196.930	648.00	52.01	5409.71	383.68	21.11	1056.00	.12	5316.72	.01	25.00
	196.930	1080.00	52.04	5419.34	383.80	21.14	1056.00	.20	3199.29	.01	25.00
	196.930	1800.00	52.11	5445.88	384.12	21.21	1056.00	.33	1928.41	.02	25.00
	196.930	3000.00	52.30	5518.10	384.99	21.40	1056.00	.54	1166.23	.03	25.00
	196.930	5000.00	52.79	5708.17	387.28	21.89	1056.00	.88	709.94	.04	25.00
*	197.120	648.00	52.01	6666.61	384.10	22.91	1003.00	.10	5319.58	.00	25.00
*	197.120	1080.00	52.04	6676.34	384.21	22.94	1003.00	.16	3201.01	.01	25.00
*	197.120	1800.00	52.11	6703.15	384.52	23.01	1003.00	.27	1929.45	.01	25.00
*	197.120	3000.00	52.30	6776.07	385.37	23.20	1003.00	.44	1166.86	.02	25.00
	197.120	5000.00	52.80	6967.78	387.57	23.70	1003.00	.72	710.32	.03	25.00
	197.320	648.00	52.01	6549.98	352.93	26.91	1056.00	.10	5322.55	.00	25.00
	197.320	1080.00	52.04	6559.00	353.04	26.94	1056.00	.16	3202.79	.01	25.00
	197.320	1800.00	52.11	6583.86	353.32	27.01	1056.00	.27	1930.52	.01	25.00

	197.320	3000.00	52.30	6651.47	354.11	27.20	1056.00	.45	1167.51	.02	25.00
	197.320	5000.00	52.80	6829.14	356.15	27.70	1056.00	.73	710.72	.03	25.00
	197.510	648.00	52.01	6944.59	397.66	26.11	1003.00	.09	5325.53	.00	25.00
	197.510	1080.00	52.04	6954.78	397.76	26.14	1003.00	.16	3204.59	.01	25.00
	197.510	1800.00	52.11	6982.83	398.03	26.21	1003.00	.26	1931.60	.01	25.00
	197.510	3000.00	52.30	7059.10	398.78	26.40	1003.00	.42	1168.16	.02	25.00
	197.510	5000.00	52.80	7259.42	400.72	26.90	1003.00	.69	711.13	.03	25.00
*	197.710	648.00	52.01	5716.21	420.79	22.11	1056.00	.11	5328.12	.01	25.00
	197.710	1080.00	52.04	5727.04	420.88	22.14	1056.00	.19	3206.14	.01	25.00
	197.710	1800.00	52.11	5756.88	421.12	22.21	1056.00	.31	1932.54	.01	25.00
	197.710	3000.00	52.30	5837.98	421.78	22.40	1056.00	.51	1168.73	.02	25.00
	197.710	5000.00	52.81	6050.84	423.50	22.91	1056.00	.83	711.48	.04	25.00
	197.910	648.00	52.01	5819.22	437.12	15.11	1056.00	.11	5330.75	.01	25.00
	197.910	1080.00	52.04	5830.53	437.22	15.14	1056.00	.19	3207.73	.01	25.00
	197.910	1800.00	52.11	5861.66	437.49	15.21	1056.00	.31	1933.49	.01	25.00
	197.910	3000.00	52.31	5946.29	438.24	15.41	1056.00	.50	1169.32	.02	25.00
	197.910	5000.00	52.81	6168.36	440.19	15.91	1056.00	.81	711.85	.04	25.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
198.050	648.00	52.01	5669.79	407.48	16.21	739.00	.11	5332.55	.01	25.00
198.050	1080.00	52.04	5680.41	407.64	16.24	739.00	.19	3208.81	.01	25.00
198.050	1800.00	52.11	5709.68	408.08	16.31	739.00	.32	1934.15	.01	25.00
198.050	3000.00	52.31	5789.29	409.30	16.51	739.00	.52	1169.71	.02	25.00
198.050	5000.00	52.82	5998.52	412.47	17.02	739.00	.83	712.09	.04	25.00
198.100	648.00	52.01	5961.31	428.80	17.01	264.00	.11	5333.23	.01	25.00
198.100	1080.00	52.04	5972.51	428.91	17.04	264.00	.18	3209.21	.01	25.00
198.100	1800.00	52.11	6003.35	429.21	17.11	264.00	.30	1934.39	.01	25.00
198.100	3000.00	52.31	6087.15	430.04	17.31	264.00	.49	1169.86	.02	25.00
198.100	5000.00	52.82	6306.96	432.20	17.82	264.00	.79	712.18	.04	25.00
198.300	648.00	52.01	5500.92	400.26	20.91	1056.00	.12	5335.72	.01	25.00
198.300	1080.00	52.04	5511.47	400.39	20.94	1056.00	.20	3210.71	.01	25.00
198.300	1800.00	52.11	5540.52	400.74	21.01	1056.00	.32	1935.29	.02	25.00
198.300	3000.00	52.31	5619.45	401.69	21.21	1056.00	.53	1170.41	.03	25.00
198.300	5000.00	52.82	5826.51	404.17	21.72	1056.00	.86	712.53	.04	25.00
198.490	648.00	52.01	5360.14	386.31	22.91	1003.00	.12	5338.02	.01	25.00
198.490	1080.00	52.04	5370.38	386.46	22.94	1003.00	.20	3212.09	.01	25.00
198.490	1800.00	52.11	5398.59	386.85	23.01	1003.00	.33	1936.13	.02	25.00
198.490	3000.00	52.31	5475.26	387.93	23.21	1003.00	.55	1170.92	.03	25.00
198.490	5000.00	52.83	5676.40	390.75	23.73	1003.00	.88	712.84	.04	25.00
198.690	648.00	52.02	5520.22	391.85	21.12	1056.00	.12	5340.52	.01	25.00
198.690	1080.00	52.04	5530.70	391.98	21.14	1056.00	.20	3213.60	.01	25.00
198.690	1800.00	52.12	5559.57	392.33	21.22	1056.00	.32	1937.03	.02	25.00

198.690	3000.00	52.32	5637.97	393.27	21.42	1056.00	.53	1171.47	.02	25.00
198.690	5000.00	52.84	5843.37	395.74	21.94	1056.00	.86	713.19	.04	25.00
198.890	648.00	52.02	6307.87	390.70	19.92	1056.00	.10	5343.38	.00	25.00
198.890	1080.00	52.04	6318.42	390.89	19.94	1056.00	.17	3215.31	.01	25.00
198.890	1800.00	52.12	6347.48	391.42	20.02	1056.00	.28	1938.07	.01	25.00
198.890	3000.00	52.32	6426.44	392.85	20.22	1056.00	.47	1172.10	.02	25.00
198.890	5000.00	52.84	6633.62	396.59	20.74	1056.00	.75	713.58	.03	25.00
199.280	648.00	52.02	5931.12	388.91	17.92	2059.00	.11	5348.61	.00	25.00
199.280	1080.00	52.04	5941.77	389.04	17.94	2059.00	.18	3218.46	.01	25.00
199.280	1800.00	52.12	5971.10	389.40	18.02	2059.00	.30	1939.97	.01	25.00
199.280	3000.00	52.32	6050.70	390.39	18.22	2059.00	.50	1173.25	.02	25.00
199.280	5000.00	52.85	6258.94	392.95	18.75	2059.00	.80	714.29	.04	25.00
199.470	648.00	52.02	5684.49	366.41	19.92	1003.00	.11	5351.05	.01	25.00
199.470	1080.00	52.04	5694.55	366.58	19.94	1003.00	.19	3219.93	.01	25.00
199.470	1800.00	52.12	5722.26	367.04	20.02	1003.00	.31	1940.85	.01	25.00
199.470	3000.00	52.32	5797.53	368.30	20.22	1003.00	.52	1173.79	.02	25.00
199.470	5000.00	52.86	5994.70	371.56	20.76	1003.00	.83	714.63	.04	25.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
*	200.060	648.00	52.02	9395.95	436.56	28.02	3115.00	.07	5363.60	.00	25.00
*	200.060	1080.00	52.04	9408.17	436.92	28.04	3115.00	.11	3227.47	.00	25.00
*	200.060	1800.00	52.12	9441.83	437.93	28.12	3115.00	.19	1945.39	.01	25.00
*	200.060	3000.00	52.33	9533.37	440.66	28.33	3115.00	.31	1176.54	.01	25.00
*	200.060	5000.00	52.87	9774.09	447.76	28.87	3115.00	.51	716.32	.02	25.00
*	200.250	648.00	52.02	5454.34	375.98	21.72	1003.00	.12	5365.95	.01	25.00
*	200.250	1080.00	52.04	5464.89	376.36	21.74	1003.00	.20	3228.88	.01	25.00
*	200.250	1800.00	52.12	5493.96	377.43	21.82	1003.00	.33	1946.24	.02	25.00
*	200.250	3000.00	52.33	5573.14	380.32	22.03	1003.00	.54	1177.06	.02	25.00
*	200.250	5000.00	52.87	5781.07	384.75	22.57	1003.00	.86	716.64	.04	25.00
	200.440	648.00	52.02	5834.40	375.66	20.92	1003.00	.11	5368.45	.00	25.00
	200.440	1080.00	52.04	5844.90	375.76	20.94	1003.00	.18	3230.38	.01	25.00
	200.440	1800.00	52.12	5873.81	376.04	21.02	1003.00	.31	1947.15	.01	25.00
	200.440	3000.00	52.33	5952.23	376.78	21.23	1003.00	.50	1177.61	.02	25.00
	200.440	5000.00	52.87	6157.01	378.87	21.77	1003.00	.81	716.98	.04	25.00
*	200.630	648.00	52.02	4020.56	445.21	11.12	1003.00	.16	5370.18	.01	25.00
*	200.630	1080.00	52.04	4033.14	445.27	11.14	1003.00	.27	3231.42	.02	25.00
*	200.630	1800.00	52.12	4067.77	445.45	11.22	1003.00	.44	1947.78	.03	25.00
*	200.630	3000.00	52.33	4161.57	445.93	11.43	1003.00	.72	1178.00	.04	25.00
*	200.630	5000.00	52.88	4405.91	447.17	11.98	1003.00	1.13	717.23	.06	25.00
	200.820	648.00	52.02	3934.84	410.81	12.12	1003.00	.16	5371.87	.01	25.00
	200.820	1080.00	52.05	3946.57	410.95	12.15	1003.00	.27	3232.44	.02	25.00
	200.820	1800.00	52.12	3978.84	411.32	12.22	1003.00	.45	1948.40	.03	25.00

200.820	3000.00	52.34	4066.30	412.33	12.44	1003.00	.74	1178.37	.04	25.00
200.820	5000.00	52.89	4294.32	414.96	12.99	1003.00	1.16	717.47	.06	25.00
201.010	648.00	52.02	4691.17	399.82	13.42	1003.00	.14	5373.89	.01	25.00
201.010	1080.00	52.05	4702.94	399.96	13.45	1003.00	.23	3233.65	.01	25.00
201.010	1800.00	52.13	4735.33	400.36	13.53	1003.00	.38	1949.13	.02	25.00
201.010	3000.00	52.35	4822.91	401.44	13.75	1003.00	.62	1178.82	.03	25.00
201.010	5000.00	52.91	5050.13	403.96	14.31	1003.00	.99	717.75	.05	25.00
201.200	648.00	52.02	4822.42	456.56	12.32	1003.00	.13	5375.96	.01	25.00
201.200	1080.00	52.05	4836.13	456.70	12.35	1003.00	.22	3234.90	.01	25.00
201.200	1800.00	52.13	4873.79	457.11	12.43	1003.00	.37	1949.88	.02	25.00
201.200	3000.00	52.35	4975.55	458.21	12.65	1003.00	.60	1179.28	.03	25.00
201.200	5000.00	52.92	5238.97	461.04	13.22	1003.00	.95	718.04	.05	25.00
201.400	648.00	52.02	5174.73	426.79	16.82	1056.00	.13	5378.31	.01	25.00
201.400	1080.00	52.05	5187.66	426.95	16.85	1056.00	.21	3236.31	.01	25.00
201.400	1800.00	52.13	5223.21	427.39	16.93	1056.00	.34	1950.73	.02	25.00
201.400	3000.00	52.36	5319.25	428.57	17.16	1056.00	.56	1179.80	.03	25.00
201.400	5000.00	52.93	5567.85	431.56	17.73	1056.00	.90	718.37	.04	25.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
201.580	648.00	52.02	5836.69	459.81	16.12	950.00	.11	5380.68	.01	25.00
201.580	1080.00	52.05	5850.79	460.00	16.15	950.00	.18	3237.74	.01	25.00
201.580	1800.00	52.13	5889.51	460.51	16.23	950.00	.31	1951.60	.02	25.00
201.580	3000.00	52.36	5994.08	461.88	16.46	950.00	.50	1180.33	.02	25.00
201.580	5000.00	52.94	6264.50	465.41	17.04	950.00	.80	718.70	.04	25.00
201.950	648.00	52.02	5402.11	423.30	15.32	1953.00	.12	5385.21	.01	25.00
201.950	1080.00	52.05	5415.29	423.46	15.35	1953.00	.20	3240.46	.01	25.00
201.950	1800.00	52.13	5451.50	423.91	15.43	1953.00	.33	1953.24	.02	25.00
201.950	3000.00	52.36	5549.23	425.13	15.66	1953.00	.54	1181.34	.03	25.00
201.950	5000.00	52.95	5801.57	428.26	16.25	1953.00	.86	719.33	.04	25.00
202.500	648.00	52.02	4627.29	438.10	13.82	2904.00	.14	5390.97	.01	25.00
202.500	1080.00	52.05	4641.19	438.25	13.85	2904.00	.23	3243.93	.01	25.00
202.500	1800.00	52.14	4679.34	438.67	13.94	2904.00	.38	1955.34	.02	25.00
202.500	3000.00	52.37	4782.27	440.26	14.17	2904.00	.63	1182.62	.03	25.00
202.500	5000.00	52.98	5048.04	444.78	14.78	2904.00	.99	720.14	.05	25.00
202.690	648.00	52.02	4210.87	411.14	12.22	1003.00	.15	5392.78	.01	25.00
202.690	1080.00	52.05	4224.12	411.34	12.25	1003.00	.26	3245.02	.01	25.00
202.690	1800.00	52.14	4260.48	411.89	12.34	1003.00	.42	1956.00	.02	25.00
202.690	3000.00	52.38	4358.51	413.36	12.58	1003.00	.69	1183.03	.04	25.00
202.690	5000.00	52.99	4610.93	417.14	13.19	1003.00	1.08	720.40	.06	25.00
202.880	648.00	52.02	4240.89	371.08	15.32	1003.00	.15	5394.60	.01	25.00
202.880	1080.00	52.05	4253.05	371.29	15.35	1003.00	.25	3246.11	.01	25.00
202.880	1800.00	52.14	4286.41	371.85	15.44	1003.00	.42	1956.66	.02	25.00

	202.880	3000.00	52.38	4376.28	373.37	15.68	1003.00	.69	1183.43	.04	25.00
	202.880	5000.00	53.00	4607.33	377.26	16.30	1003.00	1.09	720.65	.05	25.00
	203.260	648.00	52.02	4864.17	319.10	21.82	2006.00	.13	5398.78	.01	25.00
	203.260	1080.00	52.05	4874.95	319.32	21.85	2006.00	.22	3248.63	.01	25.00
	203.260	1800.00	52.14	4904.52	319.92	21.94	2006.00	.37	1958.18	.02	25.00
	203.260	3000.00	52.39	4984.08	321.54	22.19	2006.00	.60	1184.36	.03	25.00
	203.260	5000.00	53.02	5188.14	325.64	22.82	2006.00	.96	721.23	.04	25.00
*	203.830	648.00	52.02	6183.83	291.92	38.32	3009.00	.10	5406.76	.00	25.00
*	203.830	1080.00	52.05	6193.95	292.12	38.35	3009.00	.17	3253.42	.01	25.00
*	203.830	1800.00	52.15	6221.68	292.65	38.45	3009.00	.29	1961.07	.01	25.00
*	203.830	3000.00	52.40	6296.26	294.08	38.70	3009.00	.48	1186.11	.02	25.00
*	203.830	5000.00	53.04	6487.17	297.71	39.34	3009.00	.77	722.32	.03	25.00
*	204.020	648.00	52.02	4127.75	318.22	20.12	1003.00	.16	5408.53	.01	25.00
*	204.020	1080.00	52.05	4138.70	318.70	20.15	1003.00	.26	3254.49	.01	25.00
*	204.020	1800.00	52.15	4168.81	319.87	20.25	1003.00	.43	1961.71	.02	25.00
*	204.020	3000.00	52.40	4250.03	322.58	20.50	1003.00	.71	1186.51	.03	25.00
*	204.020	5000.00	53.04	4459.59	329.46	21.14	1003.00	1.12	722.57	.05	25.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
*	204.200	648.00	52.02	6276.28	298.02	33.02	950.00	.10	5411.09	.00	25.00
*	204.200	1080.00	52.05	6286.54	298.19	33.05	950.00	.17	3256.03	.01	25.00
*	204.200	1800.00	52.15	6314.67	298.66	33.15	950.00	.29	1962.64	.01	25.00
*	204.200	3000.00	52.40	6390.31	299.85	33.40	950.00	.47	1187.07	.02	25.00
*	204.200	5000.00	53.05	6584.02	303.01	34.05	950.00	.76	722.91	.03	25.00
*	204.770	648.00	52.02	4577.29	361.13	18.12	3009.00	.14	5416.99	.01	25.00
*	204.770	1080.00	52.05	4590.12	361.36	18.15	3009.00	.24	3259.58	.01	25.00
*	204.770	1800.00	52.15	4625.30	361.98	18.25	3009.00	.39	1964.79	.02	25.00
*	204.770	3000.00	52.41	4719.86	363.66	18.51	3009.00	.64	1188.38	.03	25.00
*	204.770	5000.00	53.06	4959.48	367.87	19.16	3009.00	1.01	723.74	.05	25.00
	204.960	648.00	52.02	4886.18	394.22	22.02	1003.00	.13	5419.10	.01	25.00
	204.960	1080.00	52.06	4900.10	394.52	22.06	1003.00	.22	3260.84	.01	25.00
	204.960	1800.00	52.15	4938.27	395.34	22.15	1003.00	.36	1965.55	.02	25.00
	204.960	3000.00	52.41	5040.96	397.54	22.41	1003.00	.60	1188.85	.03	25.00
	204.960	5000.00	53.07	5304.25	403.11	23.07	1003.00	.94	724.04	.05	25.00
	205.450	648.00	52.02	4164.77	339.46	16.12	2587.00	.16	5423.71	.01	25.00
	205.450	1080.00	52.06	4177.09	339.66	16.16	2587.00	.26	3263.62	.01	25.00
	205.450	1800.00	52.16	4210.89	340.20	16.26	2587.00	.43	1967.23	.02	25.00
	205.450	3000.00	52.42	4301.60	341.65	16.52	2587.00	.70	1189.88	.03	25.00
	205.450	5000.00	53.09	4533.00	345.81	17.19	2587.00	1.10	724.69	.05	25.00
	205.640	648.00	52.02	5112.51	402.70	17.12	1003.00	.13	5425.91	.01	25.00
	205.640	1080.00	52.06	5127.26	402.97	17.16	1003.00	.21	3264.95	.01	25.00
	205.640	1800.00	52.16	5167.73	403.72	17.26	1003.00	.35	1968.03	.02	25.00

205.640	3000.00	52.43	5276.36	405.72	17.53	1003.00	.57	1190.37	.03	25.00
205.640	5000.00	53.11	5553.35	410.47	18.21	1003.00	.90	725.00	.04	25.00
205.830	648.00	52.02	5502.56	447.59	18.42	1003.00	.12	5428.28	.01	25.00
205.830	1080.00	52.06	5519.21	447.79	18.46	1003.00	.20	3266.37	.01	25.00
205.830	1800.00	52.16	5564.86	448.33	18.56	1003.00	.32	1968.89	.02	25.00
205.830	3000.00	52.43	5687.15	449.78	18.83	1003.00	.53	1190.90	.03	25.00
205.830	5000.00	53.12	5997.69	453.45	19.52	1003.00	.83	725.33	.04	25.00
206.340	648.00	52.02	4909.75	438.10	15.32	2693.00	.13	5433.95	.01	25.00
206.340	1080.00	52.06	4926.34	438.26	15.36	2693.00	.22	3269.78	.01	25.00
206.340	1800.00	52.16	4971.80	438.67	15.46	2693.00	.36	1970.96	.02	25.00
206.340	3000.00	52.44	5093.43	439.78	15.74	2693.00	.59	1192.17	.03	25.00
206.340	5000.00	53.14	5401.35	442.59	16.44	2693.00	.93	726.14	.05	25.00
206.520	648.00	52.02	4991.79	423.11	15.12	950.00	.13	5435.98	.01	25.00
206.520	1080.00	52.06	5007.95	423.27	15.16	950.00	.22	3271.01	.01	25.00
206.520	1800.00	52.16	5052.19	423.72	15.26	950.00	.36	1971.70	.02	25.00
206.520	3000.00	52.44	5170.51	424.91	15.54	950.00	.58	1192.63	.03	25.00
206.520	5000.00	53.15	5469.81	427.90	16.25	950.00	.91	726.43	.05	25.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
206.730	648.00	52.02	5535.81	411.25	15.32	1109.00	.12	5438.61	.01	25.00
206.730	1080.00	52.06	5551.69	411.42	15.36	1109.00	.19	3272.59	.01	25.00
206.730	1800.00	52.17	5595.14	411.89	15.47	1109.00	.32	1972.66	.02	25.00
206.730	3000.00	52.45	5711.32	413.13	15.75	1109.00	.53	1193.21	.02	25.00
206.730	5000.00	53.16	6004.85	416.24	16.46	1109.00	.83	726.80	.04	25.00
206.920	648.00	52.02	5687.22	415.07	17.52	1003.00	.11	5441.06	.01	25.00
206.920	1080.00	52.06	5703.37	415.29	17.56	1003.00	.19	3274.06	.01	25.00
206.920	1800.00	52.17	5747.55	415.90	17.67	1003.00	.31	1973.55	.01	25.00
206.920	3000.00	52.45	5865.72	417.52	17.95	1003.00	.51	1193.76	.02	25.00
206.920	5000.00	53.16	6164.50	421.58	18.66	1003.00	.81	727.14	.04	25.00
207.100	648.00	52.02	4821.81	383.54	15.12	950.00	.13	5443.02	.01	25.00
207.100	1080.00	52.06	4836.79	383.77	15.16	950.00	.22	3275.24	.01	25.00
207.100	1800.00	52.17	4877.80	384.40	15.27	950.00	.37	1974.26	.02	25.00
207.100	3000.00	52.45	4987.47	386.08	15.55	950.00	.60	1194.20	.03	25.00
207.100	5000.00	53.17	5264.94	390.30	16.27	950.00	.95	727.42	.05	25.00
207.740	648.00	52.02	4011.88	377.99	17.02	3379.00	.16	5448.83	.01	25.00
207.740	1080.00	52.06	4026.95	378.33	17.06	3379.00	.27	3278.74	.01	25.00
207.740	1800.00	52.17	4068.21	379.28	17.17	3379.00	.44	1976.38	.02	25.00
207.740	3000.00	52.47	4178.62	381.80	17.47	3379.00	.72	1195.50	.04	25.00
207.740	5000.00	53.20	4458.40	388.11	18.20	3379.00	1.12	728.26	.06	25.00
207.940	648.00	52.02	4130.35	347.38	18.02	1056.00	.16	5450.70	.01	25.00
207.940	1080.00	52.06	4144.47	347.71	18.06	1056.00	.26	3279.87	.01	25.00
207.940	1800.00	52.18	4183.16	348.60	18.18	1056.00	.43	1977.07	.02	25.00

	207.940	3000.00	52.47	4286.55	350.98	18.47	1056.00	.70	1195.92	.04	25.00
	207.940	5000.00	53.21	4547.88	357.33	19.21	1056.00	1.10	728.52	.05	25.00
*	208.120	648.00	52.02	3036.58	344.66	12.92	950.00	.21	5451.94	.01	25.00
*	208.120	1080.00	52.06	3050.82	345.22	12.96	950.00	.35	3280.61	.02	25.00
*	208.120	1800.00	52.18	3089.81	346.75	13.08	950.00	.58	1977.52	.03	25.00
*	208.120	3000.00	52.47	3194.27	350.80	13.37	950.00	.94	1196.20	.05	25.00
*	208.120	5000.00	53.22	3460.22	364.32	14.12	950.00	1.44	728.71	.08	25.00
	208.300	648.00	52.02	3599.25	332.38	17.12	950.00	.18	5453.40	.01	25.00
	208.300	1080.00	52.07	3613.18	332.92	17.17	950.00	.30	3281.50	.02	25.00
	208.300	1800.00	52.18	3651.31	334.40	17.28	950.00	.49	1978.05	.03	25.00
	208.300	3000.00	52.49	3753.37	338.32	17.59	950.00	.80	1196.53	.04	25.00
	208.300	5000.00	53.25	4014.31	348.43	18.35	950.00	1.25	728.92	.06	25.00
	208.500	648.00	52.02	3963.66	294.49	17.12	1056.00	.16	5455.20	.01	25.00
	208.500	1080.00	52.07	3976.42	294.70	17.17	1056.00	.27	3282.58	.01	25.00
	208.500	1800.00	52.18	4011.27	295.27	17.28	1056.00	.45	1978.71	.02	25.00
	208.500	3000.00	52.50	4103.89	296.77	17.60	1056.00	.73	1196.93	.03	25.00
	208.500	5000.00	53.27	4334.93	300.18	18.37	1056.00	1.15	729.17	.05	25.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
208.700	648.00	52.02	3974.00	327.13	18.02	1056.00	.16	5457.00	.01	25.00
208.700	1080.00	52.07	3988.28	327.61	18.07	1056.00	.27	3283.66	.01	25.00
208.700	1800.00	52.19	4027.33	328.89	18.19	1056.00	.45	1979.36	.02	25.00
208.700	3000.00	52.50	4131.48	332.28	18.50	1056.00	.73	1197.34	.04	25.00
208.700	5000.00	53.28	4392.44	337.11	19.28	1056.00	1.14	729.43	.06	25.00
208.900	648.00	52.02	3726.05	319.44	14.12	1056.00	.17	5458.68	.01	25.00
208.900	1080.00	52.07	3740.11	319.84	14.17	1056.00	.29	3284.67	.01	25.00
208.900	1800.00	52.19	3778.55	320.93	14.29	1056.00	.48	1979.98	.02	25.00
208.900	3000.00	52.51	3880.96	323.81	14.61	1056.00	.77	1197.72	.04	25.00
208.900	5000.00	53.29	4138.03	330.93	15.39	1056.00	1.21	729.67	.06	25.00
209.150	648.00	52.03	3439.74	254.50	17.03	1320.00	.19	5460.63	.01	25.00
209.150	1080.00	52.07	3451.12	254.70	17.07	1320.00	.31	3285.85	.01	25.00
209.150	1800.00	52.19	3482.19	255.24	17.19	1320.00	.52	1980.69	.02	25.00
209.150	3000.00	52.51	3564.70	256.69	17.51	1320.00	.84	1198.15	.04	25.00
209.150	5000.00	53.31	3770.45	260.48	18.31	1320.00	1.33	729.95	.06	25.00
209.570	648.00	52.03	3132.25	258.25	16.93	2217.00	.21	5463.60	.01	25.00
209.570	1080.00	52.07	3144.11	258.61	16.97	2217.00	.34	3287.64	.02	25.00
209.570	1800.00	52.20	3176.52	259.59	17.10	2217.00	.57	1981.78	.03	25.00
209.570	3000.00	52.53	3262.73	262.20	17.43	2217.00	.92	1198.82	.05	25.00
209.570	5000.00	53.34	3478.37	268.61	18.24	2217.00	1.44	730.38	.07	25.00
209.780	648.00	52.03	3896.05	312.63	17.93	1108.00	.17	5465.46	.01	25.00
209.780	1080.00	52.07	3910.67	313.00	17.97	1108.00	.28	3288.75	.01	25.00
209.780	1800.00	52.20	3950.55	313.99	18.10	1108.00	.46	1982.45	.02	25.00

209.780	3000.00	52.54	4056.46	316.61	18.44	1108.00	.74	1199.24	.04	25.00
209.780	5000.00	53.37	4321.40	321.82	19.27	1108.00	1.16	730.65	.06	25.00
210.000	648.00	52.03	3317.84	256.54	16.93	1161.00	.20	5467.11	.01	25.00
210.000	1080.00	52.07	3330.11	256.84	16.97	1161.00	.32	3289.75	.02	25.00
210.000	1800.00	52.20	3363.58	257.64	17.10	1161.00	.54	1983.05	.03	25.00
210.000	3000.00	52.55	3452.34	259.77	17.45	1161.00	.87	1199.61	.04	25.00
210.000	5000.00	53.38	3674.09	268.65	18.28	1161.00	1.36	730.88	.06	25.00
210.100	648.00	52.03	3290.34	286.52	18.03	528.00	.20	5467.85	.01	25.00
210.100	1080.00	52.08	3304.04	286.74	18.08	528.00	.33	3290.20	.02	25.00
210.100	1800.00	52.21	3341.46	288.41	18.21	528.00	.54	1983.33	.03	25.00
210.100	3000.00	52.55	3441.32	293.18	18.55	528.00	.87	1199.78	.04	25.00
210.100	5000.00	53.39	3690.33	299.23	19.39	528.00	1.35	730.99	.07	25.00
210.300	648.00	52.03	3436.45	228.30	22.23	1056.00	.19	5469.41	.01	25.00
210.300	1080.00	52.08	3447.52	228.46	22.28	1056.00	.31	3291.13	.01	25.00
210.300	1800.00	52.21	3477.71	228.89	22.41	1056.00	.52	1983.89	.02	25.00
210.300	3000.00	52.56	3557.52	230.03	22.76	1056.00	.84	1200.13	.04	25.00
210.300	5000.00	53.41	3755.95	236.64	23.61	1056.00	1.33	731.21	.06	25.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	210.500	648.00	52.03	3061.32	278.98	21.03	1056.00	.21	5470.79	.01	25.00
	210.500	1080.00	52.08	3075.03	279.43	21.08	1056.00	.35	3291.97	.02	25.00
	210.500	1800.00	52.21	3112.44	280.64	21.21	1056.00	.58	1984.40	.03	25.00
	210.500	3000.00	52.56	3211.73	283.84	21.56	1056.00	.93	1200.44	.05	25.00
	210.500	5000.00	53.42	3458.33	290.05	22.42	1056.00	1.45	731.41	.07	25.00
*	210.700	648.00	52.03	3669.74	232.65	25.33	1056.00	.18	5472.45	.01	25.00
*	210.700	1080.00	52.08	3681.32	232.84	25.38	1056.00	.29	3292.97	.01	25.00
*	210.700	1800.00	52.22	3712.85	233.37	25.52	1056.00	.48	1985.01	.02	25.00
*	210.700	3000.00	52.57	3796.20	234.87	25.87	1056.00	.79	1200.81	.03	25.00
*	210.700	5000.00	53.45	4003.22	238.92	26.75	1056.00	1.25	731.65	.05	25.00
*	210.900	648.00	52.03	3201.49	307.13	18.13	1056.00	.20	5473.90	.01	25.00
*	210.900	1080.00	52.08	3217.05	307.62	18.18	1056.00	.34	3293.84	.02	25.00
*	210.900	1800.00	52.22	3259.48	308.94	18.32	1056.00	.55	1985.54	.03	25.00
*	210.900	3000.00	52.58	3371.87	312.25	18.68	1056.00	.89	1201.14	.05	25.00
	210.900	5000.00	53.46	3649.66	318.97	19.56	1056.00	1.37	731.86	.07	25.00
	211.110	648.00	52.03	3743.22	353.02	17.23	1108.00	.17	5475.68	.01	25.00
	211.110	1080.00	52.08	3761.30	353.30	17.28	1108.00	.29	3294.91	.02	25.00
	211.110	1800.00	52.22	3810.52	354.05	17.42	1108.00	.47	1986.19	.03	25.00
	211.110	3000.00	52.59	3940.36	356.04	17.79	1108.00	.76	1201.55	.04	25.00
	211.110	5000.00	53.49	4262.11	362.05	18.69	1108.00	1.17	732.12	.06	25.00
*	211.320	648.00	52.03	3938.29	225.54	27.03	1108.00	.16	5477.55	.01	25.00
*	211.320	1080.00	52.08	3950.11	225.86	27.08	1108.00	.27	3296.04	.01	25.00
*	211.320	1800.00	52.22	3982.29	226.73	27.22	1108.00	.45	1986.87	.02	25.00

	211.320	3000.00	52.60	4067.32	229.02	27.60	1108.00	.74	1201.96	.03	25.00
	211.320	5000.00	53.50	4277.72	236.51	28.50	1108.00	1.17	732.39	.05	25.00
*	211.740	648.00	52.03	3304.34	281.44	22.03	2217.00	.20	5480.69	.01	25.00
*	211.740	1080.00	52.08	3319.36	281.79	22.08	2217.00	.33	3297.93	.02	25.00
*	211.740	1800.00	52.23	3360.25	282.75	22.23	2217.00	.54	1988.02	.03	25.00
*	211.740	3000.00	52.61	3468.02	285.23	22.61	2217.00	.87	1202.68	.04	25.00
	211.740	5000.00	53.52	3731.10	288.44	23.52	2217.00	1.34	732.85	.07	25.00
	211.950	648.00	52.03	3261.12	288.93	24.33	1108.00	.20	5482.24	.01	25.00
	211.950	1080.00	52.08	3276.64	289.49	24.38	1108.00	.33	3298.87	.02	25.00
	211.950	1800.00	52.23	3320.34	301.97	24.53	1108.00	.54	1988.59	.03	25.00
	211.950	3000.00	52.62	3436.37	305.85	24.92	1108.00	.87	1203.03	.05	25.00
	211.950	5000.00	53.54	3722.32	313.76	25.84	1108.00	1.34	733.08	.07	25.00
	212.160	648.00	52.03	3380.46	226.92	25.13	1108.00	.19	5483.85	.01	25.00
	212.160	1080.00	52.09	3392.83	227.22	25.19	1108.00	.32	3299.83	.01	25.00
	212.160	1800.00	52.23	3426.51	228.03	25.33	1108.00	.53	1989.17	.02	25.00
	212.160	3000.00	52.62	3515.24	230.15	25.72	1108.00	.85	1203.39	.04	25.00
	212.160	5000.00	53.56	3732.50	235.25	26.66	1108.00	1.34	733.31	.06	25.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	212.370	648.00	52.03	3101.11	257.78	19.13	1108.00	.21	5485.32	.01	25.00
	212.370	1080.00	52.09	3115.36	258.09	19.19	1108.00	.35	3300.72	.02	25.00
	212.370	1800.00	52.24	3154.16	258.92	19.34	1108.00	.57	1989.71	.03	25.00
	212.370	3000.00	52.63	3256.15	261.12	19.73	1108.00	.92	1203.72	.05	25.00
	212.370	5000.00	53.58	3504.97	266.38	20.68	1108.00	1.43	733.52	.07	25.00
	212.580	648.00	52.03	3193.05	295.41	15.23	1108.00	.20	5486.84	.01	25.00
	212.580	1080.00	52.09	3209.61	295.79	15.29	1108.00	.34	3301.64	.02	25.00
	212.580	1800.00	52.24	3254.68	296.80	15.44	1108.00	.55	1990.27	.03	25.00
	212.580	3000.00	52.64	3373.15	299.46	15.84	1108.00	.89	1204.07	.05	25.00
	212.580	5000.00	53.60	3660.89	303.15	16.80	1108.00	1.37	733.75	.07	25.00
*	212.790	648.00	52.03	3475.38	203.87	24.93	1108.00	.19	5488.49	.01	25.00
*	212.790	1080.00	52.09	3486.97	204.14	24.99	1108.00	.31	3302.63	.01	25.00
*	212.790	1800.00	52.24	3518.51	204.86	25.14	1108.00	.51	1990.87	.02	25.00
	212.790	3000.00	52.65	3601.36	206.67	25.55	1108.00	.83	1204.44	.04	25.00
	212.790	5000.00	53.62	3802.27	209.71	26.52	1108.00	1.32	733.98	.05	25.00
	213.000	648.00	52.03	3494.80	285.46	29.33	1108.00	.19	5490.15	.01	25.00
	213.000	1080.00	52.09	3511.33	286.25	29.39	1108.00	.31	3303.63	.02	25.00
	213.000	1800.00	52.25	3556.40	288.43	29.55	1108.00	.51	1991.48	.03	25.00
	213.000	3000.00	52.66	3674.87	290.59	29.96	1108.00	.82	1204.82	.04	25.00
	213.000	5000.00	53.64	3960.68	294.42	30.94	1108.00	1.26	734.23	.06	25.00
*	213.200	648.00	52.03	2765.55	339.48	16.13	1056.00	.23	5491.40	.01	25.00
*	213.200	1080.00	52.09	2785.32	340.08	16.19	1056.00	.39	3304.39	.02	25.00
*	213.200	1800.00	52.25	2839.14	341.70	16.35	1056.00	.63	1991.94	.04	25.00

*	213.200	3000.00	52.66	2980.66	345.93	16.76	1056.00	1.01	1205.11	.06	25.00
*	213.200	5000.00	53.65	3324.68	352.60	17.75	1056.00	1.50	734.42	.09	25.00
*	213.400	648.00	52.03	3304.04	272.61	23.03	1056.00	.20	5492.89	.01	25.00
*	213.400	1080.00	52.09	3320.16	272.93	23.09	1056.00	.33	3305.29	.02	25.00
*	213.400	1800.00	52.26	3363.98	273.80	23.26	1056.00	.54	1992.49	.03	25.00
*	213.400	3000.00	52.68	3478.62	275.83	23.68	1056.00	.86	1205.45	.04	25.00
*	213.400	5000.00	53.68	3757.88	280.64	24.68	1056.00	1.33	734.64	.06	25.00
	213.600	648.00	52.03	3313.79	273.95	17.13	1056.00	.20	5494.39	.01	25.00
	213.600	1080.00	52.10	3330.59	274.50	17.20	1056.00	.32	3306.19	.02	25.00
	213.600	1800.00	52.26	3376.25	275.98	17.36	1056.00	.53	1993.04	.03	25.00
	213.600	3000.00	52.69	3495.74	279.31	17.79	1056.00	.86	1205.79	.04	25.00
	213.600	5000.00	53.70	3781.56	282.74	18.80	1056.00	1.32	734.86	.06	25.00
	213.800	648.00	52.03	3171.75	276.04	15.03	1056.00	.20	5495.83	.01	25.00
	213.800	1080.00	52.10	3188.74	276.35	15.10	1056.00	.34	3307.06	.02	25.00
	213.800	1800.00	52.26	3234.84	277.20	15.26	1056.00	.56	1993.57	.03	25.00
	213.800	3000.00	52.69	3355.03	279.10	15.69	1056.00	.89	1206.12	.05	25.00
	213.800	5000.00	53.72	3642.70	283.54	16.72	1056.00	1.37	735.08	.07	25.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
214.000	648.00	52.04	3356.81	263.51	15.14	1056.00	.19	5497.35	.01	25.00
214.000	1080.00	52.10	3373.23	263.82	15.20	1056.00	.32	3307.97	.02	25.00
214.000	1800.00	52.27	3417.78	264.63	15.37	1056.00	.53	1994.12	.03	25.00
214.000	3000.00	52.70	3533.87	266.83	15.80	1056.00	.85	1206.46	.04	25.00
214.000	5000.00	53.74	3812.26	272.72	16.84	1056.00	1.31	735.30	.06	25.00
214.200	648.00	52.04	3275.99	246.72	17.14	1056.00	.20	5498.83	.01	25.00
214.200	1080.00	52.10	3291.57	246.99	17.20	1056.00	.33	3308.87	.02	25.00
214.200	1800.00	52.27	3333.83	247.70	17.37	1056.00	.54	1994.67	.03	25.00
214.200	3000.00	52.71	3443.79	249.54	17.81	1056.00	.87	1206.80	.04	25.00
214.200	5000.00	53.75	3705.37	252.27	18.85	1056.00	1.35	735.52	.06	25.00
214.400	648.00	52.04	3358.09	243.12	18.14	1056.00	.19	5500.35	.01	25.00
214.400	1080.00	52.10	3373.58	243.41	18.20	1056.00	.32	3309.78	.02	25.00
214.400	1800.00	52.27	3415.58	244.18	18.37	1056.00	.53	1995.22	.02	25.00
214.400	3000.00	52.72	3524.87	246.12	18.82	1056.00	.85	1207.14	.04	25.00
214.400	5000.00	53.77	3784.91	249.26	19.87	1056.00	1.32	735.74	.06	25.00
214.600	648.00	52.04	3234.39	247.25	17.04	1056.00	.20	5501.82	.01	25.00
214.600	1080.00	52.10	3250.31	247.45	17.10	1056.00	.33	3310.67	.02	25.00
214.600	1800.00	52.27	3293.41	247.97	17.27	1056.00	.55	1995.76	.03	25.00
214.600	3000.00	52.72	3405.35	249.69	17.72	1056.00	.88	1207.48	.04	25.00
214.600	5000.00	53.78	3672.99	256.20	18.78	1056.00	1.36	735.96	.06	25.00
214.800	648.00	52.04	3162.55	274.24	15.04	1056.00	.20	5503.25	.01	25.00
214.800	1080.00	52.10	3180.37	274.47	15.10	1056.00	.34	3311.53	.02	25.00
214.800	1800.00	52.28	3228.62	275.09	15.28	1056.00	.56	1996.29	.03	25.00

214.800	3000.00	52.73	3353.85	276.67	15.73	1056.00	.89	1207.80	.05	25.00
214.800	5000.00	53.80	3650.91	280.40	16.80	1056.00	1.37	736.17	.07	25.00
215.000	648.00	52.04	3110.41	257.80	22.84	1056.00	.21	5504.66	.01	25.00
215.000	1080.00	52.10	3127.38	258.16	22.90	1056.00	.35	3312.38	.02	25.00
215.000	1800.00	52.28	3173.39	259.14	23.08	1056.00	.57	1996.80	.03	25.00
215.000	3000.00	52.74	3292.99	261.67	23.54	1056.00	.91	1208.13	.05	25.00
215.000	5000.00	53.82	3580.38	272.22	24.62	1056.00	1.40	736.38	.07	25.00
215.200	648.00	52.04	3197.60	287.63	13.94	1056.00	.20	5506.10	.01	25.00
215.200	1080.00	52.10	3216.80	288.10	14.00	1056.00	.34	3313.25	.02	25.00
215.200	1800.00	52.29	3268.83	289.35	14.19	1056.00	.55	1997.34	.03	25.00
215.200	3000.00	52.75	3404.06	292.42	14.65	1056.00	.88	1208.46	.05	25.00
215.200	5000.00	53.84	3724.15	295.90	15.74	1056.00	1.34	736.60	.07	25.00
215.800	648.00	52.04	3194.92	205.38	24.84	3174.00	.20	5510.45	.01	25.00
215.800	1080.00	52.11	3209.17	205.72	24.91	3174.00	.34	3315.87	.02	25.00
215.800	1800.00	52.29	3247.78	206.65	25.09	3174.00	.55	1998.93	.02	25.00
215.800	3000.00	52.77	3347.89	209.36	25.57	3174.00	.90	1209.44	.04	25.00
215.800	5000.00	53.89	3586.34	216.27	26.69	3174.00	1.39	737.23	.06	25.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
*	216.400	648.00	52.04	2870.62	288.95	14.14	3168.00	.23	5514.35	.01	25.00
*	216.400	1080.00	52.11	2890.96	289.38	14.21	3168.00	.37	3318.23	.02	25.00
*	216.400	1800.00	52.30	2945.98	290.52	14.40	3168.00	.61	2000.37	.03	25.00
	216.400	3000.00	52.80	3088.31	292.75	14.90	3168.00	.97	1210.35	.05	25.00
	216.400	5000.00	53.94	3428.61	296.42	16.04	3168.00	1.46	737.83	.08	25.00
	216.600	648.00	52.04	3225.65	232.24	27.24	1056.00	.20	5515.81	.01	25.00
	216.600	1080.00	52.11	3242.44	232.68	27.31	1056.00	.33	3319.11	.02	25.00
	216.600	1800.00	52.31	3287.84	233.85	27.51	1056.00	.55	2000.90	.03	25.00
	216.600	3000.00	52.81	3405.45	236.82	28.01	1056.00	.88	1210.68	.04	25.00
	216.600	5000.00	53.97	3681.36	240.31	29.17	1056.00	1.36	738.05	.06	25.00
*	216.800	648.00	52.04	2420.34	255.23	15.14	1056.00	.27	5516.90	.02	25.00
*	216.800	1080.00	52.11	2439.04	255.88	15.21	1056.00	.44	3319.77	.03	25.00
*	216.800	1800.00	52.31	2489.66	257.62	15.41	1056.00	.72	2001.31	.04	25.00
*	216.800	3000.00	52.81	2620.47	259.66	15.91	1056.00	1.14	1210.94	.06	25.00
*	216.800	5000.00	53.98	2924.40	261.82	17.08	1056.00	1.71	738.22	.09	25.00
*	217.100	648.00	52.04	3265.65	269.80	18.04	1584.00	.20	5519.12	.01	25.00
*	217.100	1080.00	52.12	3285.83	270.42	18.12	1584.00	.33	3321.11	.02	25.00
*	217.100	1800.00	52.32	3340.39	272.10	18.32	1584.00	.54	2002.13	.03	25.00
*	217.100	3000.00	52.84	3481.44	276.38	18.84	1584.00	.86	1211.45	.04	25.00
*	217.100	5000.00	54.03	3816.69	286.38	20.03	1584.00	1.31	738.56	.06	25.00
	217.400	648.00	52.04	2799.04	290.22	13.54	1584.00	.23	5521.02	.01	25.00
	217.400	1080.00	52.12	2821.55	290.80	13.62	1584.00	.38	3322.26	.02	25.00
	217.400	1800.00	52.33	2882.29	292.33	13.83	1584.00	.62	2002.83	.04	25.00

217.400	3000.00	52.85	3038.30	295.27	14.35	1584.00	.99	1211.89	.05	25.00
217.400	5000.00	54.06	3397.63	300.85	15.56	1584.00	1.47	738.86	.08	25.00
217.600	648.00	52.04	3137.42	253.73	20.04	1056.00	.21	5522.44	.01	25.00
217.600	1080.00	52.12	3157.10	254.22	20.12	1056.00	.34	3323.12	.02	25.00
217.600	1800.00	52.33	3210.16	255.53	20.33	1056.00	.56	2003.35	.03	25.00
217.600	3000.00	52.87	3346.69	258.84	20.87	1056.00	.90	1212.22	.04	25.00
217.600	5000.00	54.09	3666.88	266.35	22.09	1056.00	1.36	739.07	.06	25.00
217.800	648.00	52.05	3243.83	263.78	17.75	1056.00	.20	5523.91	.01	25.00
217.800	1080.00	52.12	3264.81	264.95	17.82	1056.00	.33	3324.01	.02	25.00
217.800	1800.00	52.34	3321.62	268.08	18.04	1056.00	.54	2003.89	.03	25.00
217.800	3000.00	52.88	3468.16	271.44	18.58	1056.00	.87	1212.56	.04	25.00
217.800	5000.00	54.10	3804.65	274.61	19.80	1056.00	1.31	739.29	.06	25.00
218.000	648.00	52.05	3501.56	249.24	19.15	1056.00	.19	5525.50	.01	25.00
218.000	1080.00	52.13	3521.44	249.57	19.23	1056.00	.31	3324.96	.01	25.00
218.000	1800.00	52.34	3574.97	250.50	19.44	1056.00	.50	2004.48	.02	25.00
218.000	3000.00	52.88	3712.05	253.11	19.98	1056.00	.81	1212.92	.04	25.00
218.000	5000.00	54.12	4029.11	259.06	21.22	1056.00	1.24	739.53	.06	25.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
218.200	648.00	52.05	3129.06	299.50	15.05	1056.00	.21	5526.91	.01	25.00
218.200	1080.00	52.13	3153.15	299.90	15.13	1056.00	.34	3325.82	.02	25.00
218.200	1800.00	52.34	3218.01	300.99	15.34	1056.00	.56	2005.00	.03	25.00
218.200	3000.00	52.89	3383.76	303.11	15.89	1056.00	.89	1213.25	.05	25.00
218.200	5000.00	54.14	3763.21	305.95	17.14	1056.00	1.33	739.75	.07	25.00
218.600	648.00	52.05	3055.84	222.15	22.25	2118.00	.21	5529.69	.01	25.00
218.600	1080.00	52.13	3074.04	222.59	22.33	2118.00	.35	3327.49	.02	25.00
218.600	1800.00	52.35	3123.04	223.76	22.55	2118.00	.58	2006.02	.03	25.00
218.600	3000.00	52.91	3248.56	227.03	23.11	2118.00	.92	1213.89	.04	25.00
218.600	5000.00	54.17	3540.41	235.59	24.37	2118.00	1.41	740.17	.06	25.00
218.800	648.00	52.05	3500.27	291.32	15.05	1056.00	.19	5531.27	.01	25.00
218.800	1080.00	52.13	3524.43	292.03	15.13	1056.00	.31	3328.45	.02	25.00
218.800	1800.00	52.35	3589.52	293.91	15.35	1056.00	.50	2006.61	.03	25.00
218.800	3000.00	52.92	3756.27	298.17	15.92	1056.00	.80	1214.26	.04	25.00
218.800	5000.00	54.19	4140.49	305.94	17.19	1056.00	1.21	740.41	.06	25.00
219.000	648.00	52.05	2995.74	317.77	19.05	1056.00	.22	5532.63	.01	25.00
219.000	1080.00	52.13	3022.36	318.30	19.13	1056.00	.36	3329.27	.02	25.00
219.000	1800.00	52.36	3093.98	319.72	19.36	1056.00	.58	2007.11	.03	25.00
219.000	3000.00	52.92	3276.84	323.33	19.92	1056.00	.92	1214.58	.05	25.00
219.000	5000.00	54.21	3697.43	331.48	21.21	1056.00	1.35	740.63	.07	25.00
219.200	648.00	52.05	3334.10	308.54	15.05	1056.00	.19	5534.14	.01	25.00
219.200	1080.00	52.13	3360.22	308.97	15.13	1056.00	.32	3330.18	.02	25.00
219.200	1800.00	52.36	3430.39	310.14	15.36	1056.00	.52	2007.67	.03	25.00

	219.200	3000.00	52.94	3609.10	313.08	15.94	1056.00	.83	1214.93	.04	25.00
	219.200	5000.00	54.23	4017.91	319.70	17.23	1056.00	1.24	740.86	.06	25.00
*	219.400	648.00	52.05	4279.81	250.74	26.85	1056.00	.15	5536.07	.01	25.00
*	219.400	1080.00	52.13	4301.36	251.09	26.93	1056.00	.25	3331.35	.01	25.00
*	219.400	1800.00	52.36	4359.23	252.03	27.16	1056.00	.41	2008.38	.02	25.00
*	219.400	3000.00	52.94	4506.30	254.21	27.74	1056.00	.67	1215.37	.03	25.00
*	219.400	5000.00	54.25	4840.18	257.81	29.05	1056.00	1.03	741.15	.04	25.00
*	219.600	648.00	52.05	3194.69	322.55	21.95	1056.00	.20	5537.52	.01	25.00
*	219.600	1080.00	52.14	3222.56	323.32	22.04	1056.00	.34	3332.23	.02	25.00
*	219.600	1800.00	52.37	3297.54	325.14	22.27	1056.00	.55	2008.92	.03	25.00
*	219.600	3000.00	52.95	3488.21	328.26	22.85	1056.00	.86	1215.71	.05	25.00
*	219.600	5000.00	54.25	3922.86	335.36	24.15	1056.00	1.27	741.38	.07	25.00
	219.790	648.00	52.05	3701.18	322.33	15.95	1003.00	.18	5539.11	.01	25.00
	219.790	1080.00	52.14	3729.10	322.85	16.04	1003.00	.29	3333.19	.02	25.00
	219.790	1800.00	52.37	3804.08	324.22	16.27	1003.00	.47	2009.51	.02	25.00
	219.790	3000.00	52.96	3994.69	327.29	16.86	1003.00	.75	1216.09	.04	25.00
	219.790	5000.00	54.27	4428.78	333.98	18.17	1003.00	1.13	741.62	.05	25.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
*	219.970	648.00	52.05	2696.08	342.36	11.25	950.00	.24	5540.21	.02	25.00
*	219.970	1080.00	52.14	2726.17	343.65	11.34	950.00	.40	3333.85	.02	25.00
*	219.970	1800.00	52.37	2807.23	347.11	11.57	950.00	.64	2009.92	.04	25.00
*	219.970	3000.00	52.96	3015.14	355.81	12.16	950.00	.99	1216.35	.06	25.00
*	219.970	5000.00	54.28	3497.05	368.47	13.48	950.00	1.43	741.81	.08	25.00
*	220.180	648.00	52.05	3471.10	315.48	18.05	1108.00	.19	5541.86	.01	25.00
*	220.180	1080.00	52.14	3499.11	316.01	18.14	1108.00	.31	3334.85	.02	25.00
*	220.180	1800.00	52.38	3574.22	317.45	18.38	1108.00	.50	2010.53	.03	25.00
*	220.180	3000.00	52.98	3764.75	321.06	18.98	1108.00	.80	1216.74	.04	25.00
*	220.180	5000.00	54.31	4197.65	329.12	20.31	1108.00	1.19	742.07	.06	25.00
	220.600	648.00	52.05	3554.36	287.93	20.95	2216.00	.18	5545.23	.01	25.00
	220.600	1080.00	52.14	3580.87	288.44	21.04	2216.00	.30	3336.89	.02	25.00
	220.600	1800.00	52.38	3651.81	289.79	21.28	2216.00	.49	2011.78	.02	25.00
	220.600	3000.00	52.99	3829.51	294.15	21.89	2216.00	.78	1217.52	.04	25.00
	220.600	5000.00	54.34	4234.44	303.76	23.24	2216.00	1.18	742.59	.06	25.00
	220.800	648.00	52.05	3746.69	314.35	15.95	1056.00	.17	5546.93	.01	25.00
	220.800	1080.00	52.14	3775.44	314.87	16.04	1056.00	.29	3337.92	.01	25.00
	220.800	1800.00	52.39	3852.42	316.02	16.29	1056.00	.47	2012.41	.02	25.00
	220.800	3000.00	53.00	4046.35	317.75	16.90	1056.00	.74	1217.92	.04	25.00
	220.800	5000.00	54.36	4480.44	321.59	18.26	1056.00	1.12	742.85	.05	25.00
*	221.000	648.00	52.05	2983.66	314.32	12.95	1056.00	.22	5548.28	.01	25.00
*	221.000	1080.00	52.14	3012.59	314.71	13.04	1056.00	.36	3338.74	.02	25.00
*	221.000	1800.00	52.39	3090.00	315.78	13.29	1056.00	.58	2012.91	.03	25.00

	221.000	3000.00	53.00	3285.04	317.85	13.90	1056.00	.91	1218.24	.05	25.00
	221.000	5000.00	54.37	3721.99	322.48	15.27	1056.00	1.34	743.07	.07	25.00
*	221.200	648.00	52.05	4758.26	247.08	28.95	1056.00	.14	5550.44	.01	25.00
*	221.200	1080.00	52.15	4781.20	247.37	29.05	1056.00	.23	3340.04	.01	25.00
*	221.200	1800.00	52.39	4842.51	248.10	29.29	1056.00	.37	2013.70	.01	25.00
*	221.200	3000.00	53.02	4997.28	251.44	29.92	1056.00	.60	1218.73	.02	25.00
*	221.200	5000.00	54.39	5346.93	258.38	31.29	1056.00	.94	743.38	.04	25.00
*	221.400	648.00	52.05	4213.48	327.96	16.85	1056.00	.15	5552.34	.01	25.00
*	221.400	1080.00	52.15	4244.30	329.17	16.95	1056.00	.25	3341.19	.01	25.00
*	221.400	1800.00	52.40	4327.05	332.39	17.20	1056.00	.42	2014.40	.02	25.00
	221.400	3000.00	53.02	4536.25	335.58	17.82	1056.00	.66	1219.17	.03	25.00
	221.400	5000.00	54.40	5004.02	341.42	19.20	1056.00	1.00	743.68	.05	25.00
	221.800	648.00	52.05	4087.87	306.55	18.95	2112.00	.16	5556.04	.01	25.00
	221.800	1080.00	52.15	4116.68	307.04	19.05	2112.00	.26	3343.42	.01	25.00
	221.800	1800.00	52.40	4193.76	308.36	19.30	2112.00	.43	2015.77	.02	25.00
	221.800	3000.00	53.03	4388.33	312.39	19.93	2112.00	.68	1220.03	.03	25.00
	221.800	5000.00	54.41	4827.06	320.14	21.31	2112.00	1.04	744.24	.05	25.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	222.200	648.00	52.05	3852.33	330.90	18.05	2112.00	.17	5559.53	.01	25.00
	222.200	1080.00	52.15	3883.79	331.75	18.15	2112.00	.28	3345.53	.01	25.00
	222.200	1800.00	52.40	3968.05	334.14	18.40	2112.00	.45	2017.06	.02	25.00
	222.200	3000.00	53.04	4181.24	339.40	19.04	2112.00	.72	1220.85	.04	25.00
	222.200	5000.00	54.43	4662.82	350.52	20.43	2112.00	1.07	744.79	.05	25.00
	222.400	648.00	52.05	3498.80	275.47	20.05	1056.00	.19	5561.12	.01	25.00
	222.400	1080.00	52.15	3525.15	276.28	20.15	1056.00	.31	3346.49	.02	25.00
	222.400	1800.00	52.40	3595.74	278.45	20.40	1056.00	.50	2017.65	.02	25.00
	222.400	3000.00	53.04	3774.50	283.26	21.04	1056.00	.79	1221.22	.04	25.00
	222.400	5000.00	54.44	4178.24	292.70	22.44	1056.00	1.20	745.04	.06	25.00
*	222.600	648.00	52.06	2985.72	319.22	15.26	1056.00	.22	5562.47	.01	25.00
	222.600	1080.00	52.15	3016.42	319.90	15.35	1056.00	.36	3347.31	.02	25.00
	222.600	1800.00	52.41	3098.53	321.72	15.61	1056.00	.58	2018.16	.03	25.00
	222.600	3000.00	53.05	3305.66	326.26	16.25	1056.00	.91	1221.54	.05	25.00
	222.600	5000.00	54.45	3771.54	335.06	17.65	1056.00	1.33	745.26	.07	25.00
*	223.200	648.00	52.06	4743.53	365.27	19.26	3168.00	.14	5568.91	.01	25.00
*	223.200	1080.00	52.16	4779.93	369.44	19.36	3168.00	.23	3351.21	.01	25.00
*	223.200	1800.00	52.42	4877.45	372.37	19.62	3168.00	.37	2020.54	.02	25.00
*	223.200	3000.00	53.07	5123.64	379.92	20.27	3168.00	.59	1223.04	.03	25.00
*	223.200	5000.00	54.50	5679.59	396.43	21.70	3168.00	.88	746.26	.04	25.00
*	223.400	648.00	52.06	8548.24	621.53	20.06	1056.00	.08	5572.78	.00	25.00
*	223.400	1080.00	52.16	8610.04	622.01	20.16	1056.00	.13	3353.54	.01	25.00
*	223.400	1800.00	52.42	8774.67	623.29	20.42	1056.00	.21	2021.97	.01	25.00

*	223.400	3000.00	53.08	9186.09	627.52	21.08	1056.00	.33	1223.94	.02	25.00
*	223.400	5000.00	54.52	10096.73	637.64	22.52	1056.00	.50	746.85	.02	25.00
*	223.520	648.00	52.06	3048.82	353.71	11.26	633.00	.21	5573.61	.01	25.00
*	223.520	1080.00	52.16	3083.97	354.27	11.36	633.00	.35	3354.05	.02	25.00
*	223.520	1800.00	52.42	3177.76	355.80	11.62	633.00	.57	2022.28	.03	25.00
*	223.520	3000.00	53.07	3413.10	359.61	12.27	633.00	.88	1224.14	.05	25.00
*	223.520	5000.00	54.50	3934.41	367.15	13.70	633.00	1.27	746.99	.07	25.00
*	223.720	648.00	52.06	2003.78	413.76	8.16	1056.00	.32	5574.51	.03	25.00
*	223.720	1080.00	52.16	2044.91	414.88	8.26	1056.00	.53	3354.60	.04	25.00
*	223.720	1800.00	52.42	2154.84	417.85	8.52	1056.00	.84	2022.63	.06	25.00
*	223.720	3000.00	53.08	2431.89	425.24	9.18	1056.00	1.23	1224.38	.09	25.00
*	223.720	5000.00	54.53	3057.41	441.46	10.63	1056.00	1.64	747.17	.11	25.00
*	223.920	648.00	52.06	3369.90	319.93	19.06	1056.00	.19	5576.04	.01	25.00
*	223.920	1080.00	52.16	3403.10	320.40	19.16	1056.00	.32	3355.53	.02	25.00
*	223.920	1800.00	52.44	3491.08	321.67	19.44	1056.00	.52	2023.20	.03	25.00
*	223.920	3000.00	53.11	3709.06	324.87	20.11	1056.00	.81	1224.74	.04	25.00
*	223.920	5000.00	54.57	4186.86	331.77	21.57	1056.00	1.19	747.41	.06	25.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	224.120	648.00	52.06	3169.08	374.77	12.06	1056.00	.20	5577.47	.01	25.00
	224.120	1080.00	52.16	3209.29	375.64	12.16	1056.00	.34	3356.40	.02	25.00
	224.120	1800.00	52.44	3315.50	377.22	12.44	1056.00	.54	2023.74	.03	25.00
	224.120	3000.00	53.12	3573.43	381.03	13.12	1056.00	.84	1225.09	.05	25.00
	224.120	5000.00	54.59	4135.19	388.42	14.59	1056.00	1.21	747.66	.07	25.00
*	224.300	648.00	52.06	4566.16	291.79	23.96	950.00	.14	5579.33	.01	25.00
*	224.300	1080.00	52.17	4596.95	291.94	24.07	950.00	.23	3357.52	.01	25.00
*	224.300	1800.00	52.45	4678.42	292.35	24.35	950.00	.38	2024.43	.02	25.00
*	224.300	3000.00	53.13	4879.28	293.36	25.03	950.00	.61	1225.52	.03	25.00
*	224.300	5000.00	54.61	5313.59	295.53	26.51	950.00	.94	747.94	.04	25.00
	224.480	648.00	52.06	3948.53	310.02	20.06	950.00	.16	5580.94	.01	25.00
	224.480	1080.00	52.17	3981.51	310.47	20.17	950.00	.27	3358.49	.01	25.00
	224.480	1800.00	52.45	4068.90	311.66	20.45	950.00	.44	2025.02	.02	25.00
	224.480	3000.00	53.13	4285.01	314.58	21.13	950.00	.70	1225.90	.03	25.00
	224.480	5000.00	54.61	4755.81	320.85	22.61	950.00	1.05	748.19	.05	25.00
	224.560	648.00	52.06	4124.11	323.49	17.06	422.00	.16	5581.69	.01	25.00
	224.560	1080.00	52.17	4158.41	323.80	17.17	422.00	.26	3358.95	.01	25.00
	224.560	1800.00	52.45	4249.24	324.60	17.45	422.00	.42	2025.30	.02	25.00
	224.560	3000.00	53.14	4473.51	326.57	18.14	422.00	.67	1226.07	.03	25.00
	224.560	5000.00	54.62	4960.17	330.81	19.62	422.00	1.01	748.30	.05	25.00
	224.840	648.00	52.06	4095.38	453.79	11.96	1478.00	.16	5584.28	.01	25.00
	224.840	1080.00	52.17	4143.87	455.05	12.07	1478.00	.26	3360.52	.02	25.00
	224.840	1800.00	52.45	4272.51	456.99	12.35	1478.00	.42	2026.27	.02	25.00

	224.840	3000.00	53.14	4590.71	461.34	13.04	1478.00	.65	1226.70	.04	25.00
	224.840	5000.00	54.63	5284.11	470.67	14.53	1478.00	.95	748.74	.05	25.00
	225.020	648.00	52.06	3520.10	320.68	16.36	950.00	.18	5585.71	.01	25.00
	225.020	1080.00	52.17	3554.55	321.31	16.47	950.00	.30	3361.39	.02	25.00
	225.020	1800.00	52.45	3645.89	322.97	16.75	950.00	.49	2026.81	.03	25.00
	225.020	3000.00	53.15	3872.19	327.03	17.45	950.00	.77	1227.04	.04	25.00
	225.020	5000.00	54.64	4367.22	335.75	18.94	950.00	1.14	748.97	.06	25.00
	225.200	648.00	52.06	3487.70	351.87	20.16	950.00	.19	5587.13	.01	25.00
	225.200	1080.00	52.17	3525.74	353.11	20.27	950.00	.31	3362.25	.02	25.00
	225.200	1800.00	52.46	3626.83	356.39	20.56	950.00	.50	2027.34	.03	25.00
	225.200	3000.00	53.15	3878.75	364.42	21.25	950.00	.77	1227.38	.04	25.00
	225.200	5000.00	54.65	4435.45	377.13	22.75	950.00	1.13	749.20	.06	25.00
*	225.400	648.00	52.06	4284.77	345.83	19.06	1056.00	.15	5589.07	.01	25.00
*	225.400	1080.00	52.17	4322.39	346.14	19.17	1056.00	.25	3363.42	.01	25.00
*	225.400	1800.00	52.46	4421.87	346.95	19.46	1056.00	.41	2028.06	.02	25.00
	225.400	3000.00	53.16	4666.73	348.96	20.16	1056.00	.64	1227.84	.03	25.00
	225.400	5000.00	54.67	5195.17	353.26	21.67	1056.00	.96	749.51	.04	25.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	225.600	648.00	52.06	4132.71	298.37	22.26	1056.00	.16	5590.94	.01	25.00
	225.600	1080.00	52.17	4165.46	299.58	22.37	1056.00	.26	3364.56	.01	25.00
	225.600	1800.00	52.46	4252.50	302.79	22.66	1056.00	.42	2028.75	.02	25.00
	225.600	3000.00	53.17	4469.53	309.81	23.37	1056.00	.67	1228.28	.03	25.00
	225.600	5000.00	54.68	4944.78	318.77	24.88	1056.00	1.01	749.80	.05	25.00
*	226.400	648.00	52.06	8046.79	608.51	18.06	4224.00	.08	5605.52	.00	25.00
*	226.400	1080.00	52.17	8114.30	609.40	18.17	4224.00	.13	3373.37	.01	25.00
*	226.400	1800.00	52.47	8292.89	611.74	18.47	4224.00	.22	2034.16	.01	25.00
*	226.400	3000.00	53.18	8732.81	617.46	19.18	4224.00	.34	1231.69	.02	25.00
*	226.400	5000.00	54.70	9684.46	629.67	20.70	4224.00	.52	752.07	.02	25.00
	226.900	648.00	52.06	8046.88	608.51	18.06	2640.00	.08	5614.62	.00	25.00
	226.900	1080.00	52.17	8114.56	609.40	18.17	2640.00	.13	3378.88	.01	25.00
	226.900	1800.00	52.47	8293.61	611.75	18.47	2640.00	.22	2037.54	.01	25.00
	226.900	3000.00	53.18	8734.81	617.49	19.18	2640.00	.34	1233.83	.02	25.00
	226.900	5000.00	54.71	9689.65	629.74	20.71	2640.00	.52	753.49	.02	25.00
*	227.100	648.00	65.00	13485.00	673.00	30.00	1056.00	.05	5620.70	.00	25.00
*	227.100	1080.00	65.00	13485.00	673.00	30.00	1056.00	.08	3382.53	.00	25.00
*	227.100	1800.00	65.00	13485.00	673.00	30.00	1056.00	.14	2039.73	.01	25.00
*	227.100	3000.00	65.00	13485.00	673.00	30.00	1056.00	.23	1235.14	.01	25.00
*	227.100	5000.00	65.00	13485.00	673.00	30.00	1056.00	.38	754.28	.01	25.00
	227.300	648.00	65.00	14112.16	4072.00	30.00	1050.00	.05	5627.05	.00	11.86
	227.300	1080.00	65.00	14112.40	4072.00	30.00	1050.00	.08	3386.34	.01	11.86
	227.300	1800.00	65.00	14113.09	4072.00	30.00	1050.00	.13	2042.01	.01	11.86

	227.300	3000.00	65.00	14114.67	4072.00	30.00	1050.00	.21	1236.51	.01	11.86
	227.300	5000.00	65.00	14117.84	4072.00	30.00	1050.00	.35	755.10	.02	11.86
	228.800	648.00	65.00	14112.07	672.13	30.00	7920.00	.05	5674.96	.00	25.00
	228.800	1080.00	65.00	14112.19	672.33	30.00	7920.00	.08	3415.08	.00	25.00
	228.800	1800.00	65.00	14112.54	672.92	30.00	7920.00	.13	2059.26	.00	25.00
	228.800	3000.00	65.00	14113.53	674.56	30.00	7920.00	.21	1246.86	.01	25.00
	228.800	5000.00	65.01	14116.27	679.12	30.01	7920.00	.35	761.31	.01	25.00
*	229.200	648.00	65.00	6989.68	349.46	27.00	2112.00	.09	5681.29	.00	25.00
*	229.200	1080.00	65.00	6989.74	349.46	27.00	2112.00	.15	3418.88	.01	25.00
*	229.200	1800.00	65.00	6989.95	349.46	27.00	2112.00	.26	2061.54	.01	25.00
*	229.200	3000.00	65.00	6990.53	349.47	27.00	2112.00	.43	1248.23	.02	25.00
*	229.200	5000.00	65.00	6992.14	349.48	27.00	2112.00	.72	762.13	.03	25.00
	229.400	648.00	65.00	6617.56	322.55	25.00	1056.00	.10	5684.28	.00	25.00
	229.400	1080.00	65.00	6617.61	322.55	25.00	1056.00	.16	3420.68	.01	25.00
	229.400	1800.00	65.00	6617.78	322.55	25.00	1056.00	.27	2062.62	.01	25.00
	229.400	3000.00	65.00	6618.21	322.55	25.00	1056.00	.45	1248.87	.02	25.00
	229.400	5000.00	65.01	6619.43	322.57	25.01	1056.00	.76	762.52	.03	25.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
229.600	648.00	65.00	6372.08	508.48	31.90	1056.00	.10	5687.13	.00	25.00
229.600	1080.00	65.00	6372.22	508.50	31.90	1056.00	.17	3422.39	.01	25.00
229.600	1800.00	65.00	6372.63	508.54	31.90	1056.00	.29	2063.64	.01	25.00
229.600	3000.00	65.00	6373.75	508.67	31.90	1056.00	.48	1249.49	.02	25.00
229.600	5000.00	65.01	6376.86	509.02	31.91	1056.00	.79	762.89	.03	25.00
229.800	648.00	65.00	7042.58	379.98	24.80	1056.00	.09	5690.32	.00	25.00
229.800	1080.00	65.00	7042.72	379.98	24.80	1056.00	.15	3424.30	.01	25.00
229.800	1800.00	65.00	7043.13	379.99	24.80	1056.00	.26	2064.79	.01	25.00
229.800	3000.00	65.01	7044.24	380.03	24.81	1056.00	.43	1250.18	.02	25.00
229.800	5000.00	65.01	7047.36	380.12	24.81	1056.00	.71	763.30	.03	25.00
230.150	648.00	65.00	6565.84	341.10	27.90	1848.00	.10	5695.52	.00	25.00
230.150	1080.00	65.00	6566.05	341.10	27.90	1848.00	.16	3427.42	.01	25.00
230.150	1800.00	65.00	6566.65	341.11	27.90	1848.00	.27	2066.66	.01	25.00
230.150	3000.00	65.01	6568.30	341.14	27.91	1848.00	.46	1251.30	.02	25.00
230.150	5000.00	65.02	6572.90	341.20	27.92	1848.00	.76	763.98	.03	25.00
230.300	648.00	65.00	6842.71	361.38	28.10	792.00	.09	5697.85	.00	25.00
230.300	1080.00	65.00	6842.94	361.39	28.10	792.00	.16	3428.82	.01	25.00
230.300	1800.00	65.00	6843.62	361.39	28.10	792.00	.26	2067.50	.01	25.00
230.300	3000.00	65.01	6845.48	361.41	28.11	792.00	.44	1251.80	.02	25.00
230.300	5000.00	65.02	6850.68	361.47	28.12	792.00	.73	764.28	.03	25.00
230.520	648.00	65.00	6583.40	313.61	28.00	1161.00	.10	5701.12	.00	25.00
230.520	1080.00	65.00	6583.65	313.61	28.00	1161.00	.16	3430.78	.01	25.00
230.520	1800.00	65.00	6584.35	313.62	28.00	1161.00	.27	2068.68	.01	25.00

230.520	3000.00	65.01	6586.30	313.64	28.01	1161.00	.46	1252.51	.02	25.00
230.520	5000.00	65.03	6591.72	313.70	28.03	1161.00	.76	764.70	.03	25.00
230.740	648.00	65.00	6835.22	293.94	34.10	1161.00	.09	5704.52	.00	25.00
230.740	1080.00	65.00	6835.48	293.94	34.10	1161.00	.16	3432.82	.01	25.00
230.740	1800.00	65.00	6836.21	293.95	34.10	1161.00	.26	2069.91	.01	25.00
230.740	3000.00	65.01	6838.23	293.99	34.11	1161.00	.44	1253.25	.02	25.00
230.740	5000.00	65.03	6843.85	294.08	34.13	1161.00	.73	765.15	.03	25.00
230.960	648.00	65.00	7256.66	371.62	28.00	1161.00	.09	5708.14	.00	25.00
230.960	1080.00	65.00	7257.01	371.63	28.00	1161.00	.15	3434.99	.01	25.00
230.960	1800.00	65.00	7258.02	371.65	28.00	1161.00	.25	2071.21	.01	25.00
230.960	3000.00	65.01	7260.80	371.71	28.01	1161.00	.41	1254.03	.02	25.00
230.960	5000.00	65.03	7268.55	371.88	28.03	1161.00	.69	765.62	.03	25.00
231.170	648.00	65.00	6742.20	347.70	27.00	1108.00	.10	5711.34	.00	25.00
231.170	1080.00	65.00	6742.57	347.70	27.00	1108.00	.16	3436.91	.01	25.00
231.170	1800.00	65.00	6743.61	347.71	27.00	1108.00	.27	2072.36	.01	25.00
231.170	3000.00	65.01	6746.50	347.73	27.01	1108.00	.44	1254.72	.02	25.00
231.170	5000.00	65.04	6754.50	347.77	27.04	1108.00	.74	766.03	.03	25.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	231.380	648.00	65.00	6414.98	310.72	28.90	1108.00	.10	5714.38	.00	25.00
	231.380	1080.00	65.00	6415.34	310.72	28.90	1108.00	.17	3438.74	.01	25.00
	231.380	1800.00	65.01	6416.36	310.73	28.91	1108.00	.28	2073.46	.01	25.00
	231.380	3000.00	65.01	6419.16	310.74	28.91	1108.00	.47	1255.38	.02	25.00
	231.380	5000.00	65.04	6426.97	310.78	28.94	1108.00	.78	766.43	.03	25.00
*	231.590	648.00	65.00	8760.66	464.52	30.00	1108.00	.07	5718.53	.00	25.00
*	231.590	1080.00	65.00	8761.26	464.55	30.00	1108.00	.12	3441.23	.00	25.00
*	231.590	1800.00	65.01	8762.92	464.65	30.01	1108.00	.21	2074.95	.01	25.00
*	231.590	3000.00	65.02	8767.52	464.93	30.02	1108.00	.34	1256.28	.01	25.00
*	231.590	5000.00	65.05	8780.34	465.68	30.05	1108.00	.57	766.97	.02	25.00
	231.800	648.00	65.00	7060.12	369.76	30.00	1108.00	.09	5721.89	.00	25.00
	231.800	1080.00	65.00	7060.65	369.77	30.00	1108.00	.15	3443.24	.01	25.00
	231.800	1800.00	65.01	7062.15	369.79	30.01	1108.00	.25	2076.16	.01	25.00
	231.800	3000.00	65.02	7066.28	369.84	30.02	1108.00	.42	1257.00	.02	25.00
	231.800	5000.00	65.05	7077.78	369.99	30.05	1108.00	.71	767.40	.03	25.00
	232.000	648.00	65.00	6430.76	331.55	32.90	1056.00	.10	5724.80	.00	25.00
	232.000	1080.00	65.00	6431.25	331.56	32.90	1056.00	.17	3444.99	.01	25.00
	232.000	1800.00	65.01	6432.60	331.59	32.91	1056.00	.28	2077.21	.01	25.00
	232.000	3000.00	65.02	6436.36	331.67	32.92	1056.00	.47	1257.63	.02	25.00
	232.000	5000.00	65.05	6446.79	331.89	32.95	1056.00	.78	767.78	.03	25.00
	232.400	648.00	65.00	6751.09	362.90	31.70	2112.00	.10	5730.91	.00	25.00
	232.400	1080.00	65.00	6751.70	362.91	31.70	2112.00	.16	3448.66	.01	25.00
	232.400	1800.00	65.01	6753.37	362.93	31.71	2112.00	.27	2079.41	.01	25.00

232.400	3000.00	65.02	6757.99	363.00	31.72	2112.00	.44	1258.95	.02	25.00
232.400	5000.00	65.06	6770.86	363.18	31.76	2112.00	.74	768.57	.03	25.00
232.600	648.00	65.00	7110.88	323.03	33.90	1056.00	.09	5734.13	.00	25.00
232.600	1080.00	65.00	7111.47	323.04	33.90	1056.00	.15	3450.59	.01	25.00
232.600	1800.00	65.01	7113.10	323.05	33.91	1056.00	.25	2080.57	.01	25.00
232.600	3000.00	65.02	7117.63	323.10	33.92	1056.00	.42	1259.65	.02	25.00
232.600	5000.00	65.06	7130.18	323.24	33.96	1056.00	.70	768.99	.03	25.00
232.800	648.00	65.00	6795.15	353.53	27.00	1056.00	.10	5737.21	.00	25.00
232.800	1080.00	65.00	6795.83	353.54	27.00	1056.00	.16	3452.43	.01	25.00
232.800	1800.00	65.01	6797.72	353.56	27.01	1056.00	.26	2081.67	.01	25.00
232.800	3000.00	65.02	6802.93	353.61	27.02	1056.00	.44	1260.31	.02	25.00
232.800	5000.00	65.06	6817.42	353.75	27.06	1056.00	.73	769.39	.03	25.00
233.000	648.00	65.00	6710.65	367.85	26.00	1056.00	.10	5740.24	.00	25.00
233.000	1080.00	65.00	6711.37	367.86	26.00	1056.00	.16	3454.26	.01	25.00
233.000	1800.00	65.01	6713.40	367.88	26.01	1056.00	.27	2082.77	.01	25.00
233.000	3000.00	65.02	6719.02	367.96	26.02	1056.00	.45	1260.97	.02	25.00
233.000	5000.00	65.07	6734.62	368.17	26.07	1056.00	.74	769.79	.03	25.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
233.200	648.00	65.00	6443.43	313.94	26.90	1056.00	.10	5743.16	.00	25.00
233.200	1080.00	65.00	6444.08	313.95	26.90	1056.00	.17	3456.01	.01	25.00
233.200	1800.00	65.01	6445.91	313.97	26.91	1056.00	.28	2083.82	.01	25.00
233.200	3000.00	65.03	6450.98	314.03	26.93	1056.00	.47	1261.60	.02	25.00
233.200	5000.00	65.07	6465.06	314.20	26.97	1056.00	.77	770.17	.03	25.00
233.400	648.00	65.00	6817.07	323.77	29.10	1056.00	.10	5746.25	.00	25.00
233.400	1080.00	65.00	6817.78	323.80	29.10	1056.00	.16	3457.86	.01	25.00
233.400	1800.00	65.01	6819.74	323.86	29.11	1056.00	.26	2084.93	.01	25.00
233.400	3000.00	65.03	6825.18	324.05	29.13	1056.00	.44	1262.27	.02	25.00
233.400	5000.00	65.07	6840.28	324.57	29.17	1056.00	.73	770.57	.03	25.00
233.600	648.00	65.00	6856.93	333.61	31.90	1056.00	.09	5749.35	.00	25.00
233.600	1080.00	65.00	6857.69	333.63	31.90	1056.00	.16	3459.72	.01	25.00
233.600	1800.00	65.01	6859.83	333.68	31.91	1056.00	.26	2086.05	.01	25.00
233.600	3000.00	65.03	6865.77	333.82	31.93	1056.00	.44	1262.94	.02	25.00
233.600	5000.00	65.08	6882.22	334.22	31.98	1056.00	.73	770.97	.03	25.00
233.800	648.00	65.00	6278.68	300.64	27.80	1056.00	.10	5752.19	.00	25.00
233.800	1080.00	65.00	6279.40	300.64	27.80	1056.00	.17	3461.43	.01	25.00
233.800	1800.00	65.01	6281.39	300.67	27.81	1056.00	.29	2087.07	.01	25.00
233.800	3000.00	65.03	6286.92	300.74	27.83	1056.00	.48	1263.55	.02	25.00
233.800	5000.00	65.08	6302.24	300.94	27.88	1056.00	.79	771.34	.03	25.00
234.000	648.00	65.00	6968.37	712.43	29.10	1056.00	.09	5755.34	.00	25.00
234.000	1080.00	65.00	6970.12	720.10	29.10	1056.00	.16	3463.31	.01	25.00
234.000	1800.00	65.01	6975.11	741.45	29.11	1056.00	.26	2088.20	.01	25.00

234.000	3000.00	65.03	6989.66	800.50	29.13	1056.00	.43	1264.23	.02	25.00
234.000	5000.00	65.08	7035.81	964.23	29.18	1056.00	.72	771.75	.03	25.00
234.200	648.00	65.00	6904.79	319.73	28.60	1056.00	.09	5758.46	.00	25.00
234.200	1080.00	65.00	6905.63	319.74	28.60	1056.00	.16	3465.19	.01	25.00
234.200	1800.00	65.01	6907.96	319.75	28.61	1056.00	.26	2089.33	.01	25.00
234.200	3000.00	65.03	6914.41	319.79	28.63	1056.00	.43	1264.91	.02	25.00
234.200	5000.00	65.09	6932.29	319.90	28.69	1056.00	.72	772.16	.03	25.00
234.400	648.00	65.00	6603.68	322.45	26.90	1056.00	.10	5761.45	.00	25.00
234.400	1080.00	65.00	6604.54	322.45	26.90	1056.00	.16	3466.98	.01	25.00
234.400	1800.00	65.01	6606.96	322.47	26.91	1056.00	.27	2090.41	.01	25.00
234.400	3000.00	65.03	6613.66	322.52	26.93	1056.00	.45	1265.56	.02	25.00
234.400	5000.00	65.09	6632.21	322.65	26.99	1056.00	.75	772.55	.03	25.00
234.600	648.00	65.00	6589.16	306.43	29.10	1056.00	.10	5764.44	.00	25.00
234.600	1080.00	65.00	6590.01	306.44	29.10	1056.00	.16	3468.77	.01	25.00
234.600	1800.00	65.01	6592.37	306.47	29.11	1056.00	.27	2091.48	.01	25.00
234.600	3000.00	65.03	6598.90	306.56	29.13	1056.00	.45	1266.20	.02	25.00
234.600	5000.00	65.09	6617.01	306.82	29.19	1056.00	.76	772.93	.03	25.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
234.800	648.00	65.00	6589.36	318.52	31.00	1056.00	.10	5767.42	.00	25.00
234.800	1080.00	65.00	6590.27	318.91	31.00	1056.00	.16	3470.56	.01	25.00
234.800	1800.00	65.01	6592.82	320.01	31.01	1056.00	.27	2092.55	.01	25.00
234.800	3000.00	65.03	6599.92	323.06	31.03	1056.00	.45	1266.85	.02	25.00
234.800	5000.00	65.10	6619.91	331.50	31.10	1056.00	.76	773.32	.03	25.00
235.000	648.00	65.00	6499.96	322.22	28.00	1056.00	.10	5770.36	.00	25.00
235.000	1080.00	65.00	6500.91	322.24	28.00	1056.00	.17	3472.33	.01	25.00
235.000	1800.00	65.01	6503.56	322.27	28.01	1056.00	.28	2093.61	.01	25.00
235.000	3000.00	65.04	6510.88	322.36	28.04	1056.00	.46	1267.48	.02	25.00
235.000	5000.00	65.10	6531.16	322.62	28.10	1056.00	.77	773.71	.03	25.00
235.200	648.00	65.00	7018.85	371.38	27.10	1056.00	.09	5773.54	.00	25.00
235.200	1080.00	65.00	7019.97	371.46	27.10	1056.00	.15	3474.23	.01	25.00
235.200	1800.00	65.01	7023.12	371.69	27.11	1056.00	.26	2094.76	.01	25.00
235.200	3000.00	65.04	7031.83	372.32	27.14	1056.00	.43	1268.17	.02	25.00
235.200	5000.00	65.10	7056.01	374.06	27.20	1056.00	.71	774.12	.03	25.00
235.400	648.00	65.00	6800.54	338.60	26.00	1056.00	.10	5776.61	.00	25.00
235.400	1080.00	65.00	6801.61	338.62	26.00	1056.00	.16	3476.08	.01	25.00
235.400	1800.00	65.01	6804.61	338.66	26.01	1056.00	.26	2095.87	.01	25.00
235.400	3000.00	65.04	6812.91	338.80	26.04	1056.00	.44	1268.84	.02	25.00
235.400	5000.00	65.11	6835.87	339.17	26.11	1056.00	.73	774.52	.03	25.00
235.600	648.00	65.00	6979.97	328.75	27.00	1056.00	.09	5779.77	.00	25.00
235.600	1080.00	65.01	6981.03	328.77	27.01	1056.00	.15	3477.98	.01	25.00
235.600	1800.00	65.01	6984.02	328.81	27.01	1056.00	.26	2097.01	.01	25.00

235.600	3000.00	65.04	6992.26	328.92	27.04	1056.00	.43	1269.52	.02	25.00
235.600	5000.00	65.11	7015.09	329.24	27.11	1056.00	.71	774.93	.03	25.00
236.000	648.00	65.00	6726.06	305.45	35.00	2112.00	.10	5785.86	.00	25.00
236.000	1080.00	65.01	6727.11	305.46	35.01	2112.00	.16	3481.63	.01	25.00
236.000	1800.00	65.01	6730.04	305.48	35.01	2112.00	.27	2099.20	.01	25.00
236.000	3000.00	65.04	6738.13	305.56	35.04	2112.00	.45	1270.84	.02	25.00
236.000	5000.00	65.11	6760.52	305.75	35.11	2112.00	.74	775.73	.03	25.00
236.200	648.00	65.00	7245.11	383.81	25.10	1056.00	.09	5789.14	.00	25.00
236.200	1080.00	65.01	7246.46	383.83	25.11	1056.00	.15	3483.60	.01	25.00
236.200	1800.00	65.02	7250.20	383.88	25.12	1056.00	.25	2100.38	.01	25.00
236.200	3000.00	65.04	7260.56	384.00	25.14	1056.00	.41	1271.55	.02	25.00
236.200	5000.00	65.12	7289.20	384.33	25.22	1056.00	.69	776.15	.03	25.00
236.400	648.00	65.00	6650.67	293.18	30.80	1056.00	.10	5792.15	.00	25.00
236.400	1080.00	65.01	6651.73	293.19	30.81	1056.00	.16	3485.41	.01	25.00
236.400	1800.00	65.02	6654.70	293.22	30.82	1056.00	.27	2101.47	.01	25.00
236.400	3000.00	65.04	6662.89	293.30	30.84	1056.00	.45	1272.20	.02	25.00
236.400	5000.00	65.12	6685.55	293.52	30.92	1056.00	.75	776.55	.03	25.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
236.600	648.00	65.00	6580.98	306.00	36.10	1056.00	.10	5795.13	.00	25.00
236.600	1080.00	65.01	6582.10	306.02	36.11	1056.00	.16	3487.19	.01	25.00
236.600	1800.00	65.02	6585.25	306.07	36.12	1056.00	.27	2102.54	.01	25.00
236.600	3000.00	65.04	6593.93	306.22	36.14	1056.00	.46	1272.84	.02	25.00
236.600	5000.00	65.12	6617.96	306.63	36.22	1056.00	.76	776.93	.03	25.00
236.800	648.00	65.00	7441.08	412.65	26.10	1056.00	.09	5798.50	.00	25.00
236.800	1080.00	65.01	7442.63	412.66	26.11	1056.00	.15	3489.21	.01	25.00
236.800	1800.00	65.02	7446.97	412.68	26.12	1056.00	.24	2103.75	.01	25.00
236.800	3000.00	65.05	7458.94	412.75	26.15	1056.00	.40	1273.57	.02	25.00
236.800	5000.00	65.13	7492.04	412.94	26.23	1056.00	.67	777.37	.03	25.00
236.960	648.00	65.00	7456.10	412.18	23.00	844.00	.09	5801.20	.00	25.00
236.960	1080.00	65.01	7457.70	412.19	23.01	844.00	.14	3490.83	.01	25.00
236.960	1800.00	65.02	7462.19	412.21	23.02	844.00	.24	2104.72	.01	25.00
236.960	3000.00	65.05	7474.59	412.27	23.05	844.00	.40	1274.16	.02	25.00
236.960	5000.00	65.13	7508.84	412.43	23.13	844.00	.67	777.72	.03	25.00
237.150	648.00	65.00	8463.18	365.57	30.90	1003.00	.08	5804.83	.00	25.00
237.150	1080.00	65.01	8464.63	365.58	30.91	1003.00	.13	3493.02	.00	25.00
237.150	1800.00	65.02	8468.70	365.59	30.92	1003.00	.21	2106.03	.01	25.00
237.150	3000.00	65.05	8479.93	365.64	30.95	1003.00	.35	1274.94	.01	25.00
237.150	5000.00	65.13	8510.94	365.76	31.03	1003.00	.59	778.20	.02	25.00
237.370	648.00	65.00	7990.20	364.81	28.20	1161.00	.08	5808.81	.00	25.00
237.370	1080.00	65.01	7991.68	364.82	28.21	1161.00	.14	3495.40	.01	25.00
237.370	1800.00	65.02	7995.85	364.85	28.22	1161.00	.23	2107.47	.01	25.00

	237.370	3000.00	65.05	8007.34	364.94	28.25	1161.00	.37	1275.81	.01	25.00
	237.370	5000.00	65.14	8039.09	365.17	28.34	1161.00	.62	778.72	.02	25.00
*	238.200	648.00	65.00	5751.33	321.71	25.00	4382.00	.11	5819.61	.00	25.00
*	238.200	1080.00	65.01	5752.70	321.76	25.01	4382.00	.19	3501.89	.01	25.00
*	238.200	1800.00	65.02	5756.55	321.89	25.02	4382.00	.31	2111.36	.01	25.00
*	238.200	3000.00	65.05	5767.18	322.25	25.05	4382.00	.52	1278.15	.02	25.00
*	238.200	5000.00	65.14	5796.58	323.24	25.14	4382.00	.86	780.13	.04	25.00
	238.400	648.00	65.00	5769.03	282.34	30.10	1056.00	.11	5822.23	.00	25.00
	238.400	1080.00	65.01	5770.27	282.36	30.11	1056.00	.19	3503.45	.01	25.00
	238.400	1800.00	65.02	5773.75	282.40	30.12	1056.00	.31	2112.30	.01	25.00
	238.400	3000.00	65.05	5783.37	282.52	30.15	1056.00	.52	1278.71	.02	25.00
	238.400	5000.00	65.15	5809.90	282.84	30.25	1056.00	.86	780.47	.03	25.00
	238.800	648.00	65.00	5493.33	255.32	30.00	2112.00	.12	5827.20	.00	25.00
	238.800	1080.00	65.01	5494.53	255.33	30.01	2112.00	.20	3506.44	.01	25.00
	238.800	1800.00	65.02	5497.90	255.35	30.02	2112.00	.33	2114.09	.01	25.00
	238.800	3000.00	65.06	5507.20	255.41	30.06	2112.00	.54	1279.79	.02	25.00
	238.800	5000.00	65.16	5532.85	255.58	30.16	2112.00	.90	781.12	.03	25.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
239.000	648.00	65.00	5403.58	302.28	27.00	1056.00	.12	5829.65	.00	25.00
239.000	1080.00	65.01	5405.03	302.30	27.01	1056.00	.20	3507.91	.01	25.00
239.000	1800.00	65.02	5409.09	302.35	27.02	1056.00	.33	2114.97	.01	25.00
239.000	3000.00	65.06	5420.31	302.50	27.06	1056.00	.55	1280.32	.02	25.00
239.000	5000.00	65.16	5451.25	302.91	27.16	1056.00	.92	781.44	.04	25.00
239.230	648.00	65.00	5308.94	239.61	32.10	1214.00	.12	5832.41	.00	25.00
239.230	1080.00	65.01	5310.14	239.63	32.11	1214.00	.20	3509.56	.01	25.00
239.230	1800.00	65.02	5313.48	239.69	32.12	1214.00	.34	2115.97	.01	25.00
239.230	3000.00	65.06	5322.73	239.84	32.16	1214.00	.56	1280.92	.02	25.00
239.230	5000.00	65.17	5348.20	240.27	32.27	1214.00	.93	781.80	.03	25.00
239.450	648.00	65.00	7103.07	462.78	35.00	1161.00	.09	5835.92	.00	25.00
239.450	1080.00	65.01	7105.46	463.20	35.01	1161.00	.15	3511.67	.01	25.00
239.450	1800.00	65.02	7112.14	464.35	35.02	1161.00	.25	2117.24	.01	25.00
239.450	3000.00	65.06	7130.68	467.54	35.06	1161.00	.42	1281.68	.02	25.00
239.450	5000.00	65.18	7182.35	476.31	35.18	1161.00	.70	782.26	.03	25.00
239.590	648.00	65.00	5408.70	294.43	26.00	739.00	.12	5837.64	.00	25.00
239.590	1080.00	65.01	5410.29	294.46	26.01	739.00	.20	3512.70	.01	25.00
239.590	1800.00	65.02	5414.72	294.53	26.02	739.00	.33	2117.85	.01	25.00
239.590	3000.00	65.06	5426.98	294.74	26.06	739.00	.55	1282.05	.02	25.00
239.590	5000.00	65.18	5460.75	295.33	26.18	739.00	.92	782.48	.04	25.00
239.930	648.00	65.00	4247.01	244.15	25.10	1794.00	.15	5840.90	.01	25.00
239.930	1080.00	65.01	4248.36	244.17	25.11	1794.00	.25	3514.66	.01	25.00
239.930	1800.00	65.02	4252.11	244.24	25.12	1794.00	.42	2119.03	.02	25.00

239.930	3000.00	65.07	4262.48	244.43	25.17	1794.00	.70	1282.76	.03	25.00
239.930	5000.00	65.18	4291.04	244.94	25.28	1794.00	1.17	782.91	.05	25.00
240.140	648.00	65.00	4182.87	232.31	25.20	1108.00	.15	5842.89	.01	25.00
240.140	1080.00	65.01	4184.19	232.34	25.21	1108.00	.26	3515.86	.01	25.00
240.140	1800.00	65.03	4187.90	232.41	25.23	1108.00	.43	2119.75	.02	25.00
240.140	3000.00	65.07	4198.14	232.59	25.27	1108.00	.71	1283.19	.03	25.00
240.140	5000.00	65.19	4226.31	233.11	25.39	1108.00	1.18	783.17	.05	25.00
240.550	648.00	65.00	4778.76	297.92	21.90	2164.00	.14	5847.32	.01	25.00
240.550	1080.00	65.01	4780.66	297.94	21.91	2164.00	.23	3518.52	.01	25.00
240.550	1800.00	65.03	4785.95	298.01	21.93	2164.00	.38	2121.35	.02	25.00
240.550	3000.00	65.08	4800.57	298.21	21.98	2164.00	.62	1284.15	.03	25.00
240.550	5000.00	65.22	4840.70	298.76	22.12	2164.00	1.03	783.75	.05	25.00
240.970	648.00	65.00	4673.66	227.34	31.00	2216.00	.14	5851.76	.01	25.00
240.970	1080.00	65.01	4675.26	227.37	31.01	2216.00	.23	3521.18	.01	25.00
240.970	1800.00	65.03	4679.74	227.46	31.03	2216.00	.38	2122.95	.01	25.00
240.970	3000.00	65.08	4692.11	227.70	31.08	2216.00	.64	1285.11	.02	25.00
240.970	5000.00	65.23	4726.06	228.36	31.23	2216.00	1.06	784.33	.04	25.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	241.180	648.00	65.00	4616.07	317.25	21.80	1108.00	.14	5853.96	.01	25.00
	241.180	1080.00	65.01	4618.34	317.29	21.81	1108.00	.23	3522.50	.01	25.00
	241.180	1800.00	65.03	4624.69	317.41	21.83	1108.00	.39	2123.74	.02	25.00
	241.180	3000.00	65.09	4642.22	317.76	21.89	1108.00	.65	1285.59	.03	25.00
	241.180	5000.00	65.24	4690.32	318.70	22.04	1108.00	1.07	784.62	.05	25.00
	241.590	648.00	65.00	4697.44	307.99	20.90	2164.00	.14	5858.31	.01	25.00
	241.590	1080.00	65.01	4699.81	308.03	20.91	2164.00	.23	3525.11	.01	25.00
	241.590	1800.00	65.03	4706.42	308.12	20.93	2164.00	.38	2125.31	.02	25.00
	241.590	3000.00	65.09	4724.67	308.38	20.99	2164.00	.63	1286.54	.03	25.00
	241.590	5000.00	65.26	4774.63	309.11	21.16	2164.00	1.05	785.20	.05	25.00
*	241.800	648.00	65.00	6120.79	276.07	36.10	1108.00	.11	5861.22	.00	25.00
*	241.800	1080.00	65.01	6123.01	276.12	36.11	1108.00	.18	3526.86	.01	25.00
*	241.800	1800.00	65.04	6129.19	276.27	36.14	1108.00	.29	2126.36	.01	25.00
*	241.800	3000.00	65.10	6146.25	276.67	36.20	1108.00	.49	1287.17	.02	25.00
*	241.800	5000.00	65.27	6192.95	277.75	36.37	1108.00	.81	785.58	.03	25.00
	241.910	648.00	65.00	5074.26	278.98	25.10	580.00	.13	5862.48	.01	25.00
	241.910	1080.00	65.01	5076.56	279.01	25.11	580.00	.21	3527.62	.01	25.00
	241.910	1800.00	65.04	5082.97	279.10	25.14	580.00	.35	2126.81	.01	25.00
	241.910	3000.00	65.10	5100.67	279.35	25.20	580.00	.59	1287.44	.02	25.00
	241.910	5000.00	65.27	5149.08	280.04	25.37	580.00	.97	785.74	.04	25.00
	242.120	648.00	65.00	4127.03	261.54	22.10	1108.00	.16	5864.44	.01	25.00
	242.120	1080.00	65.01	4129.19	261.57	22.11	1108.00	.26	3528.79	.01	25.00
	242.120	1800.00	65.04	4135.21	261.65	22.14	1108.00	.44	2127.52	.02	25.00

242.120	3000.00	65.10	4151.81	261.89	22.20	1108.00	.72	1287.87	.03	25.00
242.120	5000.00	65.27	4197.23	262.54	22.37	1108.00	1.19	786.00	.05	25.00
242.330	648.00	65.00	4595.66	258.40	23.10	1108.00	.14	5866.62	.01	25.00
242.330	1080.00	65.01	4597.87	258.42	23.11	1108.00	.23	3530.10	.01	25.00
242.330	1800.00	65.04	4604.02	258.50	23.14	1108.00	.39	2128.31	.02	25.00
242.330	3000.00	65.10	4620.97	258.69	23.20	1108.00	.65	1288.34	.03	25.00
242.330	5000.00	65.29	4667.30	259.23	23.39	1108.00	1.07	786.29	.04	25.00
242.530	648.00	65.01	4558.45	241.54	26.11	1056.00	.14	5868.69	.01	25.00
242.530	1080.00	65.01	4560.61	241.59	26.11	1056.00	.24	3531.34	.01	25.00
242.530	1800.00	65.04	4566.62	241.72	26.14	1056.00	.39	2129.05	.02	25.00
242.530	3000.00	65.11	4583.20	242.10	26.21	1056.00	.65	1288.79	.03	25.00
242.530	5000.00	65.29	4628.50	243.13	26.39	1056.00	1.08	786.56	.04	25.00
243.090	648.00	65.01	5147.55	263.62	32.11	2955.00	.13	5875.21	.01	25.00
243.090	1080.00	65.02	5150.05	263.66	32.12	2955.00	.21	3535.26	.01	25.00
243.090	1800.00	65.04	5157.02	263.75	32.14	2955.00	.35	2131.40	.01	25.00
243.090	3000.00	65.12	5176.22	264.00	32.22	2955.00	.58	1290.20	.02	25.00
243.090	5000.00	65.32	5228.59	264.69	32.42	2955.00	.96	787.42	.04	25.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
243.280	648.00	65.01	4706.32	293.05	23.81	1003.00	.14	5877.23	.01	25.00
243.280	1080.00	65.02	4709.19	293.09	23.82	1003.00	.23	3536.47	.01	25.00
243.280	1800.00	65.04	4717.16	293.19	23.84	1003.00	.38	2132.13	.02	25.00
243.280	3000.00	65.12	4739.12	293.48	23.92	1003.00	.63	1290.65	.03	25.00
243.280	5000.00	65.32	4799.00	294.27	24.12	1003.00	1.04	787.69	.05	25.00
243.470	648.00	65.01	5023.66	264.97	25.01	1003.00	.13	5879.39	.01	25.00
243.470	1080.00	65.02	5026.28	265.00	25.02	1003.00	.21	3537.77	.01	25.00
243.470	1800.00	65.04	5033.59	265.09	25.04	1003.00	.36	2132.91	.01	25.00
243.470	3000.00	65.12	5053.70	265.33	25.12	1003.00	.59	1291.11	.02	25.00
243.470	5000.00	65.33	5108.50	265.99	25.33	1003.00	.98	787.97	.04	25.00
243.660	648.00	65.01	5015.10	288.29	26.01	1003.00	.13	5881.55	.01	25.00
243.660	1080.00	65.02	5018.04	288.34	26.02	1003.00	.22	3539.06	.01	25.00
243.660	1800.00	65.04	5026.21	288.49	26.04	1003.00	.36	2133.69	.02	25.00
243.660	3000.00	65.12	5048.71	288.88	26.12	1003.00	.59	1291.58	.03	25.00
243.660	5000.00	65.34	5110.00	289.95	26.34	1003.00	.98	788.26	.04	25.00
243.850	648.00	65.01	4985.12	274.83	27.11	1003.00	.13	5883.69	.01	25.00
243.850	1080.00	65.02	4987.97	274.91	27.12	1003.00	.22	3540.35	.01	25.00
243.850	1800.00	65.05	4995.88	275.13	27.15	1003.00	.36	2134.46	.01	25.00
243.850	3000.00	65.12	5017.70	275.75	27.22	1003.00	.60	1292.05	.02	25.00
243.850	5000.00	65.34	5077.23	277.41	27.44	1003.00	.98	788.54	.04	25.00
244.040	648.00	65.01	5037.78	256.69	29.01	1003.00	.13	5885.86	.01	25.00
244.040	1080.00	65.02	5040.49	256.72	29.02	1003.00	.21	3541.65	.01	25.00
244.040	1800.00	65.05	5048.03	256.82	29.05	1003.00	.36	2135.24	.01	25.00

244.040	3000.00	65.13	5068.78	257.08	29.13	1003.00	.59	1292.52	.02	25.00
244.040	5000.00	65.35	5125.27	257.79	29.35	1003.00	.98	788.83	.04	25.00
244.230	648.00	65.01	4821.88	295.41	29.01	1003.00	.13	5887.93	.01	25.00
244.230	1080.00	65.02	4825.08	295.46	29.02	1003.00	.22	3542.89	.01	25.00
244.230	1800.00	65.05	4833.93	295.60	29.05	1003.00	.37	2135.99	.02	25.00
244.230	3000.00	65.13	4858.34	295.99	29.13	1003.00	.62	1292.97	.03	25.00
244.230	5000.00	65.35	4924.75	297.05	29.35	1003.00	1.02	789.10	.04	25.00
244.420	648.00	65.01	4356.72	328.02	19.81	1003.00	.15	5889.80	.01	25.00
244.420	1080.00	65.02	4360.33	328.09	19.82	1003.00	.25	3544.02	.01	25.00
244.420	1800.00	65.05	4370.34	328.28	19.85	1003.00	.41	2136.67	.02	25.00
244.420	3000.00	65.13	4397.90	328.81	19.93	1003.00	.68	1293.38	.03	25.00
244.420	5000.00	65.36	4472.92	330.26	20.16	1003.00	1.12	789.35	.05	25.00
244.610	648.00	65.01	4918.03	295.36	24.21	1003.00	.13	5891.92	.01	25.00
244.610	1080.00	65.02	4921.36	295.39	24.22	1003.00	.22	3545.29	.01	25.00
244.610	1800.00	65.05	4930.61	295.48	24.25	1003.00	.37	2137.43	.02	25.00
244.610	3000.00	65.14	4956.05	295.71	24.34	1003.00	.61	1293.84	.03	25.00
244.610	5000.00	65.37	5025.11	296.35	24.57	1003.00	1.00	789.63	.04	25.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	244.800	648.00	65.01	4970.06	314.92	27.11	1003.00	.13	5894.06	.01	25.00
	244.800	1080.00	65.02	4973.71	314.98	27.12	1003.00	.22	3546.57	.01	25.00
	244.800	1800.00	65.05	4983.85	315.15	27.15	1003.00	.36	2138.20	.02	25.00
	244.800	3000.00	65.14	5011.76	315.63	27.24	1003.00	.60	1294.31	.03	25.00
	244.800	5000.00	65.38	5087.54	316.91	27.48	1003.00	.98	789.91	.04	25.00
	245.000	648.00	65.01	5426.06	246.24	31.01	1056.00	.12	5896.51	.00	25.00
	245.000	1080.00	65.02	5428.96	246.28	31.02	1056.00	.20	3548.05	.01	25.00
	245.000	1800.00	65.05	5437.02	246.42	31.05	1056.00	.33	2139.09	.01	25.00
	245.000	3000.00	65.14	5459.19	246.87	31.14	1056.00	.55	1294.84	.02	25.00
	245.000	5000.00	65.39	5519.44	248.33	31.39	1056.00	.91	790.24	.03	25.00
	245.200	648.00	65.01	6580.70	361.61	28.01	1056.00	.10	5899.49	.00	25.00
	245.200	1080.00	65.02	6585.06	361.68	28.02	1056.00	.16	3549.83	.01	25.00
	245.200	1800.00	65.05	6597.17	361.88	28.05	1056.00	.27	2140.16	.01	25.00
	245.200	3000.00	65.15	6630.47	362.42	28.15	1056.00	.45	1295.49	.02	25.00
	245.200	5000.00	65.40	6720.79	363.90	28.40	1056.00	.74	790.63	.03	25.00
*	245.400	648.00	65.01	4593.73	302.81	28.11	1056.00	.14	5901.57	.01	25.00
*	245.400	1080.00	65.02	4597.42	302.90	28.12	1056.00	.23	3551.08	.01	25.00
*	245.400	1800.00	65.05	4607.69	303.17	28.15	1056.00	.39	2140.91	.02	25.00
*	245.400	3000.00	65.15	4635.94	303.89	28.25	1056.00	.65	1295.94	.03	25.00
*	245.400	5000.00	65.40	4712.73	305.86	28.50	1056.00	1.06	790.91	.05	25.00
*	245.600	648.00	65.01	5955.79	260.58	30.21	1056.00	.11	5904.27	.00	25.00
*	245.600	1080.00	65.02	5958.99	260.82	30.22	1056.00	.18	3552.70	.01	25.00
*	245.600	1800.00	65.05	5967.90	261.49	30.25	1056.00	.30	2141.89	.01	25.00

*	245.600	3000.00	65.15	5992.49	263.32	30.35	1056.00	.50	1296.53	.02	25.00
*	245.600	5000.00	65.41	6059.84	268.27	30.61	1056.00	.83	791.26	.03	25.00
*	245.800	648.00	65.01	4417.88	309.52	21.01	1056.00	.15	5906.27	.01	25.00
*	245.800	1080.00	65.02	4421.79	309.66	21.02	1056.00	.24	3553.90	.01	25.00
*	245.800	1800.00	65.05	4432.68	310.06	21.05	1056.00	.41	2142.61	.02	25.00
*	245.800	3000.00	65.15	4462.65	310.97	21.15	1056.00	.67	1296.96	.03	25.00
*	245.800	5000.00	65.41	4543.98	312.94	21.41	1056.00	1.10	791.53	.05	25.00
	246.000	648.00	65.01	4493.83	244.52	29.11	1056.00	.14	5908.30	.01	25.00
	246.000	1080.00	65.02	4496.93	244.62	29.12	1056.00	.24	3555.12	.01	25.00
	246.000	1800.00	65.06	4505.52	244.88	29.16	1056.00	.40	2143.34	.02	25.00
	246.000	3000.00	65.15	4529.17	245.62	29.25	1056.00	.66	1297.41	.03	25.00
	246.000	5000.00	65.42	4593.46	247.61	29.52	1056.00	1.09	791.80	.04	25.00
	246.200	648.00	65.01	5733.83	283.79	35.11	1056.00	.11	5910.90	.00	25.00
	246.200	1080.00	65.02	5737.53	283.86	35.12	1056.00	.19	3556.68	.01	25.00
	246.200	1800.00	65.06	5747.80	284.06	35.16	1056.00	.31	2144.28	.01	25.00
	246.200	3000.00	65.16	5776.03	284.60	35.26	1056.00	.52	1297.97	.02	25.00
	246.200	5000.00	65.43	5852.52	286.07	35.53	1056.00	.85	792.14	.03	25.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
246.600	648.00	65.01	5204.92	309.96	26.21	2112.00	.12	5915.61	.01	25.00
246.600	1080.00	65.02	5209.08	310.07	26.22	2112.00	.21	3559.51	.01	25.00
246.600	1800.00	65.06	5220.64	310.40	26.26	2112.00	.34	2145.98	.01	25.00
246.600	3000.00	65.16	5252.42	311.28	26.36	2112.00	.57	1299.00	.02	25.00
246.600	5000.00	65.44	5338.64	313.67	26.64	2112.00	.94	792.77	.04	25.00
246.800	648.00	65.01	4753.93	297.26	25.21	1056.00	.14	5917.76	.01	25.00
246.800	1080.00	65.02	4757.99	297.40	25.22	1056.00	.23	3560.80	.01	25.00
246.800	1800.00	65.06	4769.26	297.79	25.26	1056.00	.38	2146.76	.02	25.00
246.800	3000.00	65.16	4800.27	298.87	25.36	1056.00	.62	1299.47	.03	25.00
246.800	5000.00	65.44	4884.48	301.79	25.64	1056.00	1.02	793.06	.04	25.00
247.000	648.00	65.01	5344.71	290.61	29.11	1056.00	.12	5920.18	.00	25.00
247.000	1080.00	65.02	5348.75	290.67	29.12	1056.00	.20	3562.26	.01	25.00
247.000	1800.00	65.06	5359.95	290.84	29.16	1056.00	.34	2147.63	.01	25.00
247.000	3000.00	65.17	5390.74	291.31	29.27	1056.00	.56	1299.99	.02	25.00
247.000	5000.00	65.45	5473.98	292.57	29.55	1056.00	.91	793.38	.04	25.00
247.200	648.00	65.01	5389.08	260.79	29.01	1056.00	.12	5922.62	.00	25.00
247.200	1080.00	65.02	5392.79	260.83	29.02	1056.00	.20	3563.72	.01	25.00
247.200	1800.00	65.06	5403.07	260.94	29.06	1056.00	.33	2148.51	.01	25.00
247.200	3000.00	65.17	5431.30	261.25	29.17	1056.00	.55	1300.53	.02	25.00
247.200	5000.00	65.46	5507.53	262.08	29.46	1056.00	.91	793.70	.03	25.00
247.400	648.00	65.01	5312.51	285.82	28.21	1056.00	.12	5925.02	.00	25.00
247.400	1080.00	65.02	5316.58	285.87	28.22	1056.00	.20	3565.17	.01	25.00
247.400	1800.00	65.06	5327.90	286.01	28.26	1056.00	.34	2149.38	.01	25.00

247.400	3000.00	65.17	5358.97	286.41	28.37	1056.00	.56	1301.05	.02	25.00
247.400	5000.00	65.46	5442.88	287.49	28.66	1056.00	.92	794.02	.04	25.00
247.600	648.00	65.01	4714.56	307.38	22.81	1056.00	.14	5927.16	.01	25.00
247.600	1080.00	65.02	4718.99	307.50	22.82	1056.00	.23	3566.45	.01	25.00
247.600	1800.00	65.06	4731.29	307.84	22.86	1056.00	.38	2150.15	.02	25.00
247.600	3000.00	65.17	4765.08	308.75	22.97	1056.00	.63	1301.52	.03	25.00
247.600	5000.00	65.47	4856.61	311.20	23.27	1056.00	1.03	794.30	.05	25.00
247.800	648.00	65.01	5099.21	286.20	28.11	1056.00	.13	5929.47	.01	25.00
247.800	1080.00	65.02	5103.40	287.10	28.12	1056.00	.21	3567.83	.01	25.00
247.800	1800.00	65.06	5115.10	289.61	28.16	1056.00	.35	2150.99	.01	25.00
247.800	3000.00	65.18	5147.69	296.47	28.28	1056.00	.58	1302.02	.02	25.00
247.800	5000.00	65.48	5237.28	300.77	28.58	1056.00	.95	794.61	.04	25.00
248.000	648.00	65.01	5441.18	277.54	25.11	1056.00	.12	5931.93	.00	25.00
248.000	1080.00	65.02	5445.35	277.59	25.12	1056.00	.20	3569.31	.01	25.00
248.000	1800.00	65.07	5456.89	277.76	25.17	1056.00	.33	2151.88	.01	25.00
248.000	3000.00	65.18	5488.60	278.20	25.28	1056.00	.55	1302.56	.02	25.00
248.000	5000.00	65.49	5574.10	279.40	25.59	1056.00	.90	794.94	.04	25.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
248.200	648.00	65.01	4791.38	319.27	24.11	1056.00	.14	5934.10	.01	25.00
248.200	1080.00	65.02	4796.23	319.39	24.12	1056.00	.23	3570.61	.01	25.00
248.200	1800.00	65.07	4809.66	319.72	24.17	1056.00	.37	2152.66	.02	25.00
248.200	3000.00	65.18	4846.59	320.65	24.28	1056.00	.62	1303.03	.03	25.00
248.200	5000.00	65.49	4946.39	323.13	24.59	1056.00	1.01	795.23	.05	25.00
248.400	648.00	65.01	5208.56	325.18	25.11	1056.00	.12	5936.46	.01	25.00
248.400	1080.00	65.02	5213.54	325.28	25.12	1056.00	.21	3572.03	.01	25.00
248.400	1800.00	65.07	5227.36	325.54	25.17	1056.00	.34	2153.51	.02	25.00
248.400	3000.00	65.18	5266.06	335.40	25.28	1056.00	.57	1303.54	.03	25.00
248.400	5000.00	65.50	5371.41	337.85	25.60	1056.00	.93	795.54	.04	25.00
248.600	648.00	65.01	5380.80	276.23	23.91	1056.00	.12	5938.89	.00	25.00
248.600	1080.00	65.02	5385.13	276.28	23.92	1056.00	.20	3573.49	.01	25.00
248.600	1800.00	65.07	5397.13	276.40	23.97	1056.00	.33	2154.39	.01	25.00
248.600	3000.00	65.19	5430.08	276.74	24.09	1056.00	.55	1304.07	.02	25.00
248.600	5000.00	65.51	5518.74	277.66	24.41	1056.00	.91	795.87	.04	25.00
248.800	648.00	65.01	4715.10	256.59	25.31	1056.00	.14	5941.03	.01	25.00
248.800	1080.00	65.02	4719.17	256.64	25.32	1056.00	.23	3574.78	.01	25.00
248.800	1800.00	65.07	4730.42	256.76	25.37	1056.00	.38	2155.16	.02	25.00
248.800	3000.00	65.19	4761.33	257.11	25.49	1056.00	.63	1304.54	.03	25.00
248.800	5000.00	65.51	4844.44	258.03	25.81	1056.00	1.03	796.15	.04	25.00
249.000	648.00	65.01	4495.75	275.43	24.71	1056.00	.14	5943.06	.01	25.00
249.000	1080.00	65.02	4500.14	275.51	24.72	1056.00	.24	3576.00	.01	25.00
249.000	1800.00	65.07	4512.30	275.76	24.77	1056.00	.40	2155.90	.02	25.00

	249.000	3000.00	65.19	4545.71	276.43	24.89	1056.00	.66	1304.98	.03	25.00
	249.000	5000.00	65.52	4635.73	278.22	25.22	1056.00	1.08	796.42	.05	25.00
*	249.200	648.00	65.01	5723.83	293.19	27.31	1056.00	.11	5945.65	.00	25.00
*	249.200	1080.00	65.03	5728.58	293.24	27.33	1056.00	.19	3577.55	.01	25.00
*	249.200	1800.00	65.07	5741.75	293.38	27.37	1056.00	.31	2156.83	.01	25.00
*	249.200	3000.00	65.20	5777.86	293.76	27.50	1056.00	.52	1305.55	.02	25.00
*	249.200	5000.00	65.53	5874.91	294.78	27.83	1056.00	.85	796.77	.03	25.00
	249.400	648.00	65.01	5056.03	306.07	25.21	1056.00	.13	5947.94	.01	25.00
	249.400	1080.00	65.03	5061.11	306.20	25.23	1056.00	.21	3578.93	.01	25.00
	249.400	1800.00	65.07	5075.19	306.53	25.27	1056.00	.35	2157.66	.02	25.00
	249.400	3000.00	65.20	5113.83	307.45	25.40	1056.00	.59	1306.05	.03	25.00
	249.400	5000.00	65.53	5217.95	309.92	25.73	1056.00	.96	797.07	.04	25.00
	249.800	648.00	65.01	5762.28	269.40	31.11	2112.00	.11	5953.16	.00	25.00
	249.800	1080.00	65.03	5766.81	269.48	31.13	2112.00	.19	3582.06	.01	25.00
	249.800	1800.00	65.07	5779.38	269.68	31.17	2112.00	.31	2159.54	.01	25.00
	249.800	3000.00	65.20	5813.86	270.25	31.30	2112.00	.52	1307.19	.02	25.00
	249.800	5000.00	65.55	5906.55	271.78	31.65	2112.00	.85	797.77	.03	25.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	250.000	648.00	65.01	5164.83	316.42	26.11	1056.00	.13	5955.50	.01	25.00
	250.000	1080.00	65.03	5170.24	316.56	26.13	1056.00	.21	3583.46	.01	25.00
	250.000	1800.00	65.07	5185.22	316.93	26.17	1056.00	.35	2160.39	.02	25.00
	250.000	3000.00	65.20	5226.34	317.93	26.30	1056.00	.57	1307.70	.02	25.00
	250.000	5000.00	65.55	5337.05	320.63	26.65	1056.00	.94	798.08	.04	25.00
	250.200	648.00	65.01	4979.05	287.51	30.91	1056.00	.13	5957.75	.01	25.00
	250.200	1080.00	65.03	4983.98	287.59	30.93	1056.00	.22	3584.82	.01	25.00
	250.200	1800.00	65.07	4997.67	287.81	30.97	1056.00	.36	2161.20	.02	25.00
	250.200	3000.00	65.20	5035.19	288.40	31.10	1056.00	.60	1308.19	.03	25.00
	250.200	5000.00	65.55	5136.00	289.99	31.45	1056.00	.97	798.38	.04	25.00
	250.800	648.00	65.01	5892.45	276.78	32.21	3168.00	.11	5965.75	.00	25.00
	250.800	1080.00	65.03	5897.38	276.89	32.23	3168.00	.18	3589.62	.01	25.00
	250.800	1800.00	65.08	5911.06	277.20	32.28	3168.00	.30	2164.09	.01	25.00
	250.800	3000.00	65.21	5948.56	278.03	32.41	3168.00	.50	1309.93	.02	25.00
	250.800	5000.00	65.57	6049.32	280.27	32.77	3168.00	.83	799.45	.03	25.00
*	251.200	648.00	65.01	4300.32	299.68	21.01	2118.00	.15	5969.66	.01	25.00
*	251.200	1080.00	65.03	4305.76	299.76	21.03	2118.00	.25	3591.97	.01	25.00
*	251.200	1800.00	65.08	4320.81	299.98	21.08	2118.00	.42	2165.51	.02	25.00
*	251.200	3000.00	65.21	4362.07	300.57	21.21	2118.00	.69	1310.79	.03	25.00
*	251.200	5000.00	65.58	4472.68	302.17	21.58	2118.00	1.12	799.97	.05	25.00
*	251.400	648.00	65.01	5825.32	301.97	25.21	1056.00	.11	5972.29	.00	25.00
*	251.400	1080.00	65.03	5830.82	302.03	25.23	1056.00	.19	3593.55	.01	25.00
*	251.400	1800.00	65.08	5846.05	302.19	25.28	1056.00	.31	2166.46	.01	25.00

*	251.400	3000.00	65.22	5887.77	302.65	25.42	1056.00	.51	1311.37	.02	25.00
*	251.400	5000.00	65.59	5999.52	303.87	25.79	1056.00	.83	800.32	.03	25.00
	251.600	648.00	65.01	5601.41	300.07	24.01	1056.00	.12	5974.83	.00	25.00
	251.600	1080.00	65.03	5607.03	300.14	24.03	1056.00	.19	3595.08	.01	25.00
	251.600	1800.00	65.08	5622.60	300.31	24.08	1056.00	.32	2167.37	.01	25.00
	251.600	3000.00	65.22	5665.23	300.79	24.22	1056.00	.53	1311.92	.02	25.00
	251.600	5000.00	65.60	5779.24	302.07	24.60	1056.00	.87	800.66	.03	25.00
	251.800	648.00	65.01	5100.07	308.72	25.01	1056.00	.13	5977.14	.01	25.00
	251.800	1080.00	65.03	5105.87	308.80	25.03	1056.00	.21	3596.46	.01	25.00
	251.800	1800.00	65.08	5121.90	309.03	25.08	1056.00	.35	2168.21	.02	25.00
	251.800	3000.00	65.22	5165.82	309.67	25.22	1056.00	.58	1312.43	.03	25.00
	251.800	5000.00	65.60	5283.43	311.37	25.60	1056.00	.95	800.97	.04	25.00
*	252.000	648.00	65.01	6408.96	308.35	32.11	1056.00	.10	5980.04	.00	25.00
*	252.000	1080.00	65.03	6414.80	308.39	32.13	1056.00	.17	3598.20	.01	25.00
*	252.000	1800.00	65.08	6430.94	308.51	32.18	1056.00	.28	2169.26	.01	25.00
*	252.000	3000.00	65.23	6475.14	308.83	32.33	1056.00	.46	1313.06	.02	25.00
*	252.000	5000.00	65.61	6593.20	309.69	32.71	1056.00	.76	801.36	.03	25.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
252.200	648.00	65.01	5200.50	282.50	27.21	1056.00	.12	5982.39	.01	25.00
252.200	1080.00	65.03	5205.93	282.58	27.23	1056.00	.21	3599.62	.01	25.00
252.200	1800.00	65.08	5220.96	282.79	27.28	1056.00	.34	2170.11	.01	25.00
252.200	3000.00	65.23	5262.10	283.41	27.43	1056.00	.57	1313.57	.02	25.00
252.200	5000.00	65.61	5372.22	285.22	27.81	1056.00	.93	801.68	.04	25.00
252.400	648.00	65.01	5782.51	337.27	27.11	1056.00	.11	5985.01	.00	25.00
252.400	1080.00	65.03	5788.99	337.33	27.13	1056.00	.19	3601.19	.01	25.00
252.400	1800.00	65.08	5806.94	337.50	27.18	1056.00	.31	2171.05	.01	25.00
252.400	3000.00	65.23	5856.06	337.98	27.33	1056.00	.51	1314.15	.02	25.00
252.400	5000.00	65.62	5987.29	339.24	27.72	1056.00	.84	802.03	.04	25.00
252.600	648.00	65.01	5459.66	304.86	25.11	1056.00	.12	5987.48	.00	25.00
252.600	1080.00	65.03	5465.60	304.92	25.13	1056.00	.20	3602.68	.01	25.00
252.600	1800.00	65.08	5482.06	305.09	25.18	1056.00	.33	2171.95	.01	25.00
252.600	3000.00	65.23	5527.12	305.56	25.33	1056.00	.54	1314.69	.02	25.00
252.600	5000.00	65.62	5647.45	306.82	25.72	1056.00	.89	802.36	.04	25.00
252.800	648.00	65.01	5820.69	310.54	25.01	1056.00	.11	5990.12	.00	25.00
252.800	1080.00	65.03	5826.79	310.60	25.03	1056.00	.19	3604.26	.01	25.00
252.800	1800.00	65.09	5843.66	310.76	25.09	1056.00	.31	2172.90	.01	25.00
252.800	3000.00	65.23	5889.84	311.21	25.23	1056.00	.51	1315.26	.02	25.00
252.800	5000.00	65.63	6013.08	312.39	25.63	1056.00	.83	802.71	.03	25.00
253.000	648.00	65.01	5585.39	337.09	21.11	1056.00	.12	5992.64	.01	25.00
253.000	1080.00	65.03	5592.07	337.15	21.13	1056.00	.19	3605.78	.01	25.00
253.000	1800.00	65.09	5610.56	337.30	21.19	1056.00	.32	2173.81	.01	25.00

	253.000	3000.00	65.24	5661.15	337.72	21.34	1056.00	.53	1315.82	.02	25.00
	253.000	5000.00	65.63	5796.10	338.85	21.73	1056.00	.86	803.05	.04	25.00
*	253.200	648.00	65.01	10886.89	388.53	43.11	1056.00	.06	5997.57	.00	25.00
*	253.200	1080.00	65.03	10894.65	388.64	43.13	1056.00	.10	3608.74	.00	25.00
*	253.200	1800.00	65.09	10916.12	388.96	43.19	1056.00	.16	2175.59	.01	25.00
*	253.200	3000.00	65.24	10974.89	389.83	43.34	1056.00	.27	1316.89	.01	25.00
*	253.200	5000.00	65.64	11131.87	392.14	43.74	1056.00	.45	803.70	.01	25.00
*	253.400	648.00	65.01	5149.04	320.57	23.11	1056.00	.13	5999.90	.01	25.00
*	253.400	1080.00	65.03	5155.53	320.63	23.13	1056.00	.21	3610.14	.01	25.00
*	253.400	1800.00	65.09	5173.50	320.82	23.19	1056.00	.35	2176.44	.02	25.00
*	253.400	3000.00	65.24	5222.66	321.34	23.34	1056.00	.57	1317.40	.03	25.00
*	253.400	5000.00	65.64	5353.77	322.71	23.74	1056.00	.93	804.02	.04	25.00
	253.800	648.00	65.01	5183.15	319.06	27.11	2118.00	.13	6004.61	.01	25.00
	253.800	1080.00	65.03	5189.60	319.19	27.13	2118.00	.21	3612.96	.01	25.00
	253.800	1800.00	65.09	5207.45	319.57	27.19	2118.00	.35	2178.14	.02	25.00
	253.800	3000.00	65.24	5256.34	320.59	27.34	2118.00	.57	1318.43	.02	25.00
	253.800	5000.00	65.65	5387.12	323.30	27.75	2118.00	.93	804.65	.04	25.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
254.000	648.00	65.01	5686.52	358.07	21.01	1056.00	.11	6007.18	.01	25.00
254.000	1080.00	65.03	5693.90	358.19	21.03	1056.00	.19	3614.51	.01	25.00
254.000	1800.00	65.09	5714.32	358.52	21.09	1056.00	.31	2179.07	.01	25.00
254.000	3000.00	65.25	5770.22	359.42	21.25	1056.00	.52	1318.99	.02	25.00
254.000	5000.00	65.66	5919.37	361.82	21.66	1056.00	.84	805.00	.04	25.00
254.200	648.00	65.01	6235.69	339.11	27.21	1056.00	.10	6010.01	.00	25.00
254.200	1080.00	65.03	6242.77	339.27	27.23	1056.00	.17	3616.20	.01	25.00
254.200	1800.00	65.09	6262.35	339.72	27.29	1056.00	.29	2180.09	.01	25.00
254.200	3000.00	65.25	6315.98	340.96	27.45	1056.00	.47	1319.61	.02	25.00
254.200	5000.00	65.67	6459.30	344.24	27.87	1056.00	.77	805.38	.03	25.00
254.600	648.00	65.01	5450.21	324.72	23.91	2112.00	.12	6014.94	.01	25.00
254.600	1080.00	65.03	5457.09	324.81	23.93	2112.00	.20	3619.17	.01	25.00
254.600	1800.00	65.09	5476.11	325.06	23.99	2112.00	.33	2181.87	.01	25.00
254.600	3000.00	65.25	5528.14	325.74	24.15	2112.00	.54	1320.69	.02	25.00
254.600	5000.00	65.67	5666.69	327.55	24.57	2112.00	.88	806.04	.04	25.00
255.000	648.00	65.01	6319.13	341.35	26.01	2112.00	.10	6020.66	.00	25.00
255.000	1080.00	65.03	6326.45	341.47	26.03	2112.00	.17	3622.61	.01	25.00
255.000	1800.00	65.09	6346.66	341.81	26.09	2112.00	.28	2183.94	.01	25.00
255.000	3000.00	65.26	6401.97	342.75	26.26	2112.00	.47	1321.94	.02	25.00
255.000	5000.00	65.69	6549.35	345.23	26.69	2112.00	.76	806.81	.03	25.00
255.200	648.00	65.01	6186.27	319.71	28.01	1056.00	.10	6023.46	.00	25.00
255.200	1080.00	65.03	6193.20	319.85	28.03	1056.00	.17	3624.29	.01	25.00
255.200	1800.00	65.09	6212.35	320.25	28.09	1056.00	.29	2184.96	.01	25.00

	255.200	3000.00	65.26	6264.76	321.33	28.26	1056.00	.48	1322.56	.02	25.00
	255.200	5000.00	65.69	6404.53	324.19	28.69	1056.00	.78	807.19	.03	25.00
	255.600	648.00	65.01	5446.90	350.64	25.31	2112.00	.12	6028.39	.01	25.00
	255.600	1080.00	65.03	5454.57	350.78	25.33	2112.00	.20	3627.25	.01	25.00
	255.600	1800.00	65.09	5475.77	351.17	25.39	2112.00	.33	2186.74	.01	25.00
	255.600	3000.00	65.26	5533.74	352.24	25.56	2112.00	.54	1323.64	.02	25.00
	255.600	5000.00	65.70	5688.19	355.07	26.00	2112.00	.88	807.85	.04	25.00
*	255.800	648.00	65.01	6752.06	299.78	34.01	1056.00	.10	6031.45	.00	25.00
*	255.800	1080.00	65.03	6758.66	299.86	34.03	1056.00	.16	3629.09	.01	25.00
*	255.800	1800.00	65.10	6776.90	300.06	34.10	1056.00	.27	2187.84	.01	25.00
*	255.800	3000.00	65.26	6826.76	300.61	34.26	1056.00	.44	1324.31	.02	25.00
*	255.800	5000.00	65.70	6959.25	302.07	34.70	1056.00	.72	808.26	.03	25.00
	256.000	648.00	65.01	6783.13	337.49	30.01	1056.00	.10	6034.52	.00	25.00
	256.000	1080.00	65.03	6790.65	337.61	30.03	1056.00	.16	3630.93	.01	25.00
	256.000	1800.00	65.10	6811.42	337.95	30.10	1056.00	.26	2188.95	.01	25.00
	256.000	3000.00	65.26	6868.22	338.87	30.26	1056.00	.44	1324.98	.02	25.00
	256.000	5000.00	65.71	7019.30	341.30	30.71	1056.00	.71	808.67	.03	25.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
256.200	648.00	65.01	6055.71	379.03	22.11	1056.00	.11	6037.26	.00	25.00
256.200	1080.00	65.03	6064.18	379.15	22.13	1056.00	.18	3632.58	.01	25.00
256.200	1800.00	65.10	6087.54	379.48	22.20	1056.00	.30	2189.95	.01	25.00
256.200	3000.00	65.26	6151.42	380.38	22.36	1056.00	.49	1325.58	.02	25.00
256.200	5000.00	65.71	6321.25	382.78	22.81	1056.00	.79	809.05	.03	25.00
256.400	648.00	65.01	6478.40	355.22	28.01	1056.00	.10	6040.19	.00	25.00
256.400	1080.00	65.04	6486.37	355.37	28.04	1056.00	.17	3634.34	.01	25.00
256.400	1800.00	65.10	6508.39	355.79	28.10	1056.00	.28	2191.01	.01	25.00
256.400	3000.00	65.27	6568.58	356.92	28.27	1056.00	.46	1326.22	.02	25.00
256.400	5000.00	65.71	6728.83	359.91	28.71	1056.00	.74	809.44	.03	25.00
256.600	648.00	65.01	6153.19	284.22	33.11	1056.00	.11	6042.98	.00	25.00
256.600	1080.00	65.04	6159.62	284.30	33.14	1056.00	.18	3636.01	.01	25.00
256.600	1800.00	65.10	6177.36	284.54	33.20	1056.00	.29	2192.01	.01	25.00
256.600	3000.00	65.27	6225.87	285.17	33.37	1056.00	.48	1326.83	.02	25.00
256.600	5000.00	65.72	6354.70	286.86	33.82	1056.00	.79	809.81	.03	25.00
256.800	648.00	65.01	6351.61	321.56	27.01	1056.00	.10	6045.85	.00	25.00
256.800	1080.00	65.04	6358.91	321.64	27.04	1056.00	.17	3637.74	.01	25.00
256.800	1800.00	65.10	6379.04	321.88	27.10	1056.00	.28	2193.05	.01	25.00
256.800	3000.00	65.27	6434.05	322.53	27.27	1056.00	.47	1327.46	.02	25.00
256.800	5000.00	65.72	6580.10	324.24	27.72	1056.00	.76	810.20	.03	25.00
257.000	648.00	65.01	6522.70	290.27	29.21	1056.00	.10	6048.81	.00	25.00
257.000	1080.00	65.04	6529.31	290.34	29.24	1056.00	.17	3639.51	.01	25.00
257.000	1800.00	65.10	6547.59	290.56	29.30	1056.00	.27	2194.12	.01	25.00

	257.000	3000.00	65.27	6597.52	291.13	29.47	1056.00	.45	1328.11	.02	25.00
	257.000	5000.00	65.72	6730.05	292.65	29.92	1056.00	.74	810.59	.03	25.00
	257.400	648.00	65.01	7500.83	316.83	36.11	2112.00	.09	6055.60	.00	25.00
	257.400	1080.00	65.04	7508.12	316.99	36.14	2112.00	.14	3643.59	.01	25.00
	257.400	1800.00	65.10	7528.25	317.43	36.20	2112.00	.24	2196.57	.01	25.00
	257.400	3000.00	65.27	7583.32	318.63	36.37	2112.00	.40	1329.59	.01	25.00
	257.400	5000.00	65.73	7729.93	321.81	36.83	2112.00	.65	811.50	.02	25.00
*	257.800	648.00	65.01	5921.22	354.85	22.91	2118.00	.11	6060.97	.00	25.00
*	257.800	1080.00	65.04	5929.44	354.98	22.94	2118.00	.18	3646.82	.01	25.00
*	257.800	1800.00	65.10	5952.16	355.35	23.00	2118.00	.30	2198.52	.01	25.00
*	257.800	3000.00	65.27	6014.24	356.36	23.17	2118.00	.50	1330.77	.02	25.00
*	257.800	5000.00	65.73	6179.21	359.02	23.63	2118.00	.81	812.23	.03	25.00
*	258.000	648.00	65.01	4385.01	348.17	21.11	1056.00	.15	6062.96	.01	25.00
*	258.000	1080.00	65.04	4393.10	348.27	21.14	1056.00	.25	3648.01	.01	25.00
*	258.000	1800.00	65.10	4415.44	348.56	21.20	1056.00	.41	2199.24	.02	25.00
*	258.000	3000.00	65.27	4476.46	349.36	21.37	1056.00	.67	1331.21	.03	25.00
*	258.000	5000.00	65.74	4638.44	351.46	21.84	1056.00	1.08	812.50	.05	25.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
*	258.800	648.00	65.01	6108.09	333.46	26.11	4224.00	.11	6074.02	.00	25.00
*	258.800	1080.00	65.04	6116.18	333.54	26.14	4224.00	.18	3654.66	.01	25.00
*	258.800	1800.00	65.11	6138.52	333.77	26.21	4224.00	.29	2203.24	.01	25.00
*	258.800	3000.00	65.29	6199.42	334.38	26.39	4224.00	.48	1333.63	.02	25.00
*	258.800	5000.00	65.77	6360.36	336.01	26.87	4224.00	.79	813.99	.03	25.00
	259.000	648.00	65.01	5475.88	319.14	24.11	1056.00	.12	6076.50	.01	25.00
	259.000	1080.00	65.04	5483.73	319.21	24.14	1056.00	.20	3656.15	.01	25.00
	259.000	1800.00	65.11	5505.39	319.41	24.21	1056.00	.33	2204.14	.01	25.00
	259.000	3000.00	65.29	5564.41	319.96	24.39	1056.00	.54	1334.17	.02	25.00
	259.000	5000.00	65.77	5720.28	321.39	24.87	1056.00	.87	814.33	.04	25.00
	259.400	648.00	65.01	4902.85	353.83	19.81	2112.00	.13	6080.94	.01	25.00
	259.400	1080.00	65.04	4911.60	353.94	19.84	2112.00	.22	3658.82	.01	25.00
	259.400	1800.00	65.11	4935.75	354.24	19.91	2112.00	.36	2205.75	.02	25.00
	259.400	3000.00	65.29	5001.58	355.06	20.09	2112.00	.60	1335.15	.03	25.00
	259.400	5000.00	65.78	5175.61	357.22	20.58	2112.00	.97	814.94	.04	25.00
	260.000	648.00	65.01	5294.31	312.67	26.11	3168.00	.12	6088.13	.01	25.00
	260.000	1080.00	65.04	5302.29	312.86	26.14	3168.00	.20	3663.14	.01	25.00
	260.000	1800.00	65.11	5324.28	313.41	26.21	3168.00	.34	2208.35	.01	25.00
	260.000	3000.00	65.30	5384.31	314.88	26.40	3168.00	.56	1336.73	.02	25.00
	260.000	5000.00	65.81	5543.30	318.75	26.91	3168.00	.90	815.91	.04	25.00
*	260.200	648.00	65.01	3823.46	362.55	18.01	1056.00	.17	6089.86	.01	25.00
*	260.200	1080.00	65.04	3832.82	362.64	18.04	1056.00	.28	3664.18	.02	25.00
*	260.200	1800.00	65.11	3858.62	362.88	18.11	1056.00	.47	2208.98	.03	25.00

*	260.200	3000.00	65.30	3928.86	363.54	18.30	1056.00	.76	1337.12	.04	25.00
*	260.200	5000.00	65.81	4113.81	365.27	18.81	1056.00	1.22	816.15	.06	25.00
*	260.400	648.00	65.01	5812.23	326.01	29.11	1056.00	.11	6092.49	.00	25.00
*	260.400	1080.00	65.04	5820.73	326.20	29.14	1056.00	.19	3665.76	.01	25.00
*	260.400	1800.00	65.11	5844.17	326.71	29.21	1056.00	.31	2209.93	.01	25.00
*	260.400	3000.00	65.31	5908.05	327.95	29.41	1056.00	.51	1337.69	.02	25.00
*	260.400	5000.00	65.83	6076.59	330.88	29.93	1056.00	.82	816.51	.03	25.00
*	260.600	648.00	65.01	4883.14	377.07	17.91	1056.00	.13	6094.70	.01	25.00
*	260.600	1080.00	65.04	4893.25	377.19	17.94	1056.00	.22	3667.09	.01	25.00
*	260.600	1800.00	65.11	4921.10	377.53	18.01	1056.00	.37	2210.73	.02	25.00
*	260.600	3000.00	65.31	4996.84	378.44	18.21	1056.00	.60	1338.18	.03	25.00
	260.600	5000.00	65.83	5195.76	380.82	18.73	1056.00	.96	816.81	.05	25.00
	260.800	648.00	65.02	5116.98	327.24	28.02	1056.00	.13	6097.02	.01	25.00
	260.800	1080.00	65.04	5125.74	327.48	28.04	1056.00	.21	3668.48	.01	25.00
	260.800	1800.00	65.12	5149.87	328.13	28.12	1056.00	.35	2211.57	.02	25.00
	260.800	3000.00	65.32	5215.63	329.39	28.32	1056.00	.58	1338.69	.03	25.00
	260.800	5000.00	65.84	5388.75	332.19	28.84	1056.00	.93	817.13	.04	25.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
261.000	648.00	65.02	6202.05	326.52	26.02	1056.00	.10	6099.82	.00	25.00
261.000	1080.00	65.04	6210.90	326.83	26.04	1056.00	.17	3670.17	.01	25.00
261.000	1800.00	65.12	6235.30	327.67	26.12	1056.00	.29	2212.59	.01	25.00
261.000	3000.00	65.32	6301.85	329.83	26.32	1056.00	.48	1339.31	.02	25.00
261.000	5000.00	65.85	6476.98	332.20	26.85	1056.00	.77	817.51	.03	25.00
261.200	648.00	65.02	6579.80	359.09	23.22	1056.00	.10	6102.80	.00	25.00
261.200	1080.00	65.04	6589.60	359.22	23.24	1056.00	.16	3671.96	.01	25.00
261.200	1800.00	65.12	6616.61	359.58	23.32	1056.00	.27	2213.67	.01	25.00
261.200	3000.00	65.32	6690.07	360.54	23.52	1056.00	.45	1339.96	.02	25.00
261.200	5000.00	65.85	6882.96	363.06	24.05	1056.00	.73	817.91	.03	25.00
262.400	648.00	65.02	5112.21	313.82	23.12	6332.00	.13	6116.68	.01	25.00
262.400	1080.00	65.04	5120.99	314.00	23.14	6332.00	.21	3680.30	.01	25.00
262.400	1800.00	65.12	5145.17	314.51	23.22	6332.00	.35	2218.69	.02	25.00
262.400	3000.00	65.33	5211.01	315.88	23.43	6332.00	.58	1343.02	.02	25.00
262.400	5000.00	65.88	5383.97	318.17	23.98	6332.00	.93	819.81	.04	25.00
262.800	648.00	65.02	4693.16	292.61	26.22	2118.00	.14	6120.94	.01	25.00
262.800	1080.00	65.04	4701.46	293.06	26.24	2118.00	.23	3682.86	.01	25.00
262.800	1800.00	65.12	4724.39	294.32	26.32	2118.00	.38	2220.24	.02	25.00
262.800	3000.00	65.34	4787.07	297.72	26.54	2118.00	.63	1343.96	.03	25.00
262.800	5000.00	65.89	4952.45	300.61	27.09	2118.00	1.01	820.39	.04	25.00
263.000	648.00	65.02	3662.08	253.82	20.12	1056.00	.18	6122.60	.01	25.00
263.000	1080.00	65.04	3669.36	254.01	20.14	1056.00	.29	3683.85	.01	25.00
263.000	1800.00	65.12	3689.44	254.53	20.22	1056.00	.49	2220.84	.02	25.00

	263.000	3000.00	65.34	3744.08	255.93	20.44	1056.00	.80	1344.32	.04	25.00
	263.000	5000.00	65.89	3887.79	259.21	20.99	1056.00	1.29	820.62	.06	25.00
*	263.400	648.00	65.02	2974.69	281.54	16.22	2118.00	.22	6125.30	.01	25.00
*	263.400	1080.00	65.05	2982.94	281.70	16.25	2118.00	.36	3685.48	.02	25.00
*	263.400	1800.00	65.13	3005.68	282.13	16.33	2118.00	.60	2221.82	.03	25.00
*	263.400	3000.00	65.35	3067.48	283.31	16.55	2118.00	.98	1344.92	.05	25.00
*	263.400	5000.00	65.92	3229.32	286.11	17.12	2118.00	1.55	821.00	.08	25.00
	264.600	648.00	65.02	3826.12	304.17	20.22	6336.00	.17	6135.69	.01	30.00
	264.600	1080.00	65.06	3836.59	304.33	20.26	6336.00	.28	3691.73	.01	30.00
	264.600	1800.00	65.15	3865.35	304.79	20.35	6336.00	.47	2225.60	.02	30.00
	264.600	3000.00	65.42	3945.00	306.06	20.62	6336.00	.76	1347.24	.04	30.00
	264.600	5000.00	66.08	4151.98	308.84	21.28	6336.00	1.20	822.46	.06	30.00
	264.800	648.00	65.02	3742.35	309.94	20.72	1056.00	.17	6137.38	.01	30.00
	264.800	1080.00	65.06	3753.69	310.11	20.76	1056.00	.29	3692.75	.01	30.00
	264.800	1800.00	65.16	3784.80	310.57	20.86	1056.00	.48	2226.22	.02	30.00
	264.800	3000.00	65.42	3868.39	311.82	21.12	1056.00	.78	1347.62	.04	30.00
	264.800	5000.00	66.10	4081.66	314.99	21.80	1056.00	1.22	822.70	.06	30.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
*	265.000	648.00	65.02	4859.40	270.87	30.82	1056.00	.13	6139.58	.01	30.00
*	265.000	1080.00	65.06	4869.49	271.03	30.86	1056.00	.22	3694.07	.01	30.00
*	265.000	1800.00	65.16	4897.14	271.45	30.96	1056.00	.37	2227.02	.02	30.00
*	265.000	3000.00	65.43	4971.40	272.59	31.23	1056.00	.60	1348.10	.02	30.00
*	265.000	5000.00	66.12	5160.53	275.47	31.92	1056.00	.97	823.00	.04	30.00
*	265.400	648.00	65.02	3075.96	269.90	15.22	2112.00	.21	6142.37	.01	30.00
*	265.400	1080.00	65.06	3086.33	270.06	15.26	2112.00	.35	3695.75	.02	30.00
*	265.400	1800.00	65.16	3114.75	270.52	15.36	2112.00	.58	2228.03	.03	30.00
*	265.400	3000.00	65.44	3190.97	271.73	15.64	2112.00	.94	1348.73	.05	30.00
*	265.400	5000.00	66.14	3382.80	274.76	16.34	2112.00	1.48	823.40	.07	30.00
	265.600	648.00	65.02	3230.67	266.46	17.22	1056.00	.20	6143.83	.01	30.00
	265.600	1080.00	65.06	3240.98	266.65	17.26	1056.00	.33	3696.63	.02	30.00
	265.600	1800.00	65.17	3269.24	267.18	17.37	1056.00	.55	2228.56	.03	30.00
	265.600	3000.00	65.46	3345.06	268.59	17.66	1056.00	.90	1349.05	.04	30.00
	265.600	5000.00	66.18	3539.73	272.17	18.38	1056.00	1.41	823.61	.07	30.00
	265.800	648.00	65.02	3683.14	297.72	16.32	1056.00	.18	6145.50	.01	30.00
	265.800	1080.00	65.06	3695.17	297.87	16.36	1056.00	.29	3697.63	.01	30.00
	265.800	1800.00	65.17	3728.13	298.29	16.47	1056.00	.48	2229.17	.02	30.00
	265.800	3000.00	65.47	3816.24	299.41	16.77	1056.00	.79	1349.43	.04	30.00
	265.800	5000.00	66.21	4038.47	302.21	17.51	1056.00	1.24	823.84	.06	30.00
	266.000	648.00	65.02	3812.03	287.17	17.12	1056.00	.17	6147.22	.01	30.00
	266.000	1080.00	65.06	3823.92	287.37	17.16	1056.00	.28	3698.67	.01	30.00
	266.000	1800.00	65.18	3856.50	287.93	17.28	1056.00	.47	2229.80	.02	30.00

266.000	3000.00	65.48	3943.58	289.40	17.58	1056.00	.76	1349.81	.04	30.00
266.000	5000.00	66.23	4163.21	293.08	18.33	1056.00	1.20	824.09	.06	30.00
266.200	648.00	65.02	4481.57	276.02	22.02	1056.00	.14	6149.25	.01	30.00
266.200	1080.00	65.07	4493.18	276.13	22.07	1056.00	.24	3699.89	.01	30.00
266.200	1800.00	65.18	4524.93	276.43	22.18	1056.00	.40	2230.54	.02	30.00
266.200	3000.00	65.49	4609.61	277.23	22.49	1056.00	.65	1350.26	.03	30.00
266.200	5000.00	66.25	4822.05	279.22	23.25	1056.00	1.04	824.37	.04	30.00
266.400	648.00	65.02	4641.55	251.80	24.22	1056.00	.14	6151.35	.01	30.00
266.400	1080.00	65.07	4652.28	251.89	24.27	1056.00	.23	3701.16	.01	30.00
266.400	1800.00	65.18	4681.61	252.14	24.38	1056.00	.38	2231.30	.02	30.00
266.400	3000.00	65.49	4759.79	252.79	24.69	1056.00	.63	1350.73	.03	30.00
266.400	5000.00	66.26	4955.70	255.02	25.46	1056.00	1.01	824.66	.04	30.00
266.600	648.00	65.02	4759.25	297.45	22.12	1056.00	.14	6153.51	.01	30.00
266.600	1080.00	65.07	4771.98	297.51	22.17	1056.00	.23	3702.45	.01	30.00
266.600	1800.00	65.18	4806.78	297.69	22.28	1056.00	.37	2232.08	.02	30.00
266.600	3000.00	65.50	4899.46	298.15	22.60	1056.00	.61	1351.21	.03	30.00
266.600	5000.00	66.27	5131.23	299.31	23.37	1056.00	.97	824.96	.04	30.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
*	266.800	648.00	65.02	3633.85	266.93	20.72	1056.00	.18	6155.15	.01	30.00
*	266.800	1080.00	65.07	3645.36	267.08	20.77	1056.00	.30	3703.44	.01	30.00
*	266.800	1800.00	65.19	3676.88	267.50	20.89	1056.00	.49	2232.68	.02	30.00
*	266.800	3000.00	65.50	3760.94	268.60	21.20	1056.00	.80	1351.58	.04	30.00
	266.800	5000.00	66.28	3971.99	271.34	21.98	1056.00	1.26	825.20	.06	30.00
	267.400	648.00	65.03	3435.65	289.79	16.13	3168.00	.19	6159.82	.01	30.00
	267.400	1080.00	65.07	3448.61	289.98	16.17	3168.00	.31	3706.25	.02	30.00
	267.400	1800.00	65.20	3484.07	290.51	16.30	3168.00	.52	2234.39	.03	30.00
	267.400	3000.00	65.53	3578.58	291.93	16.63	3168.00	.84	1352.63	.04	30.00
	267.400	5000.00	66.34	3821.26	295.53	17.44	3168.00	1.31	825.87	.06	30.00
	267.600	648.00	65.03	3587.00	272.16	19.83	1056.00	.18	6161.44	.01	30.00
	267.600	1080.00	65.07	3599.66	272.30	19.87	1056.00	.30	3707.23	.01	30.00
	267.600	1800.00	65.20	3634.22	272.69	20.00	1056.00	.50	2234.98	.02	30.00
	267.600	3000.00	65.54	3726.01	273.70	20.34	1056.00	.81	1352.99	.04	30.00
	267.600	5000.00	66.37	3954.12	276.20	21.17	1056.00	1.26	826.10	.06	30.00
	268.600	648.00	65.03	3063.55	281.02	15.13	5280.00	.21	6168.38	.01	30.00
	268.600	1080.00	65.08	3077.93	281.51	15.18	5280.00	.35	3711.41	.02	30.00
	268.600	1800.00	65.22	3117.21	282.85	15.32	5280.00	.58	2237.52	.03	30.00
	268.600	3000.00	65.59	3221.59	286.40	15.69	5280.00	.93	1354.56	.05	30.00
	268.600	5000.00	66.49	3482.64	293.39	16.59	5280.00	1.44	827.12	.07	30.00
*	268.800	648.00	65.03	5544.56	304.08	27.93	1056.00	.12	6170.89	.00	30.00
*	268.800	1080.00	65.08	5560.59	304.22	27.98	1056.00	.19	3712.92	.01	30.00
*	268.800	1800.00	65.23	5604.23	304.59	28.13	1056.00	.32	2238.43	.01	30.00

*	268.800	3000.00	65.61	5719.22	305.59	28.51	1056.00	.52	1355.12	.02	30.00
*	268.800	5000.00	66.53	5999.86	307.99	29.43	1056.00	.83	827.47	.03	30.00
	269.200	648.00	65.03	4878.00	355.73	25.03	2112.00	.13	6175.30	.01	30.00
	269.200	1080.00	65.08	4897.43	355.91	25.08	2112.00	.22	3715.58	.01	30.00
	269.200	1800.00	65.23	4950.30	356.42	25.23	2112.00	.36	2240.05	.02	30.00
	269.200	3000.00	65.61	5087.27	357.72	25.61	2112.00	.59	1356.12	.03	30.00
	269.200	5000.00	66.54	5418.46	360.86	26.54	2112.00	.92	828.11	.04	30.00
*	269.600	648.00	65.03	5901.70	302.90	28.03	2116.00	.11	6180.66	.00	30.00
*	269.600	1080.00	65.08	5918.10	303.08	28.08	2116.00	.18	3718.80	.01	30.00
*	269.600	1800.00	65.23	5962.75	303.56	28.23	2116.00	.30	2241.99	.01	30.00
*	269.600	3000.00	65.62	6080.36	304.82	28.62	2116.00	.49	1357.31	.02	30.00
*	269.600	5000.00	66.56	6367.38	307.89	29.56	2116.00	.79	828.86	.03	30.00
	269.800	648.00	65.03	5676.57	294.46	27.23	1056.00	.11	6183.23	.00	30.00
	269.800	1080.00	65.09	5692.61	294.71	27.29	1056.00	.19	3720.35	.01	30.00
	269.800	1800.00	65.23	5736.33	295.41	27.43	1056.00	.31	2242.93	.01	30.00
	269.800	3000.00	65.62	5851.60	297.25	27.82	1056.00	.51	1357.88	.02	30.00
	269.800	5000.00	66.56	6133.72	301.70	28.76	1056.00	.82	829.22	.03	30.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	270.200	648.00	65.03	4808.57	309.96	28.13	2112.00	.13	6187.58	.01	30.00
	270.200	1080.00	65.09	4825.54	310.19	28.19	2112.00	.22	3722.97	.01	30.00
	270.200	1800.00	65.23	4871.76	310.83	28.33	2112.00	.37	2244.52	.02	30.00
	270.200	3000.00	65.63	4993.56	312.51	28.73	2112.00	.60	1358.86	.03	30.00
	270.200	5000.00	66.57	5291.29	316.57	29.67	2112.00	.94	829.84	.04	30.00
	270.600	648.00	65.03	4457.90	281.24	25.93	2112.00	.15	6191.62	.01	30.00
	270.600	1080.00	65.09	4473.46	281.44	25.99	2112.00	.24	3725.40	.01	30.00
	270.600	1800.00	65.24	4515.85	281.97	26.14	2112.00	.40	2245.99	.02	30.00
	270.600	3000.00	65.63	4627.50	283.37	26.53	2112.00	.65	1359.76	.03	30.00
	270.600	5000.00	66.59	4899.91	286.76	27.49	2112.00	1.02	830.41	.04	30.00
	270.800	648.00	65.03	4836.59	264.39	24.33	1056.00	.13	6193.80	.01	30.00
	270.800	1080.00	65.09	4851.37	264.56	24.39	1056.00	.22	3726.72	.01	30.00
	270.800	1800.00	65.24	4891.60	265.01	24.54	1056.00	.37	2246.78	.02	30.00
	270.800	3000.00	65.64	4997.46	266.19	24.94	1056.00	.60	1360.25	.02	30.00
	270.800	5000.00	66.60	5255.24	269.04	25.90	1056.00	.95	830.72	.04	30.00
*	271.000	648.00	65.03	3759.55	274.34	17.33	1056.00	.17	6195.51	.01	30.00
*	271.000	1080.00	65.09	3775.00	274.41	17.39	1056.00	.29	3727.74	.01	30.00
*	271.000	1800.00	65.24	3817.02	274.82	17.54	1056.00	.47	2247.41	.02	30.00
*	271.000	3000.00	65.64	3927.54	275.94	17.94	1056.00	.76	1360.64	.04	30.00
*	271.000	5000.00	66.61	4196.35	278.64	18.91	1056.00	1.19	830.97	.05	30.00
	271.400	648.00	65.03	3744.42	294.00	19.03	2112.00	.17	6198.90	.01	30.00
	271.400	1080.00	65.09	3761.23	294.19	19.09	2112.00	.29	3729.79	.01	30.00
	271.400	1800.00	65.25	3806.95	294.69	19.25	2112.00	.47	2248.65	.02	30.00

	271.400	3000.00	65.66	3927.18	296.02	19.66	2112.00	.76	1361.40	.04	30.00
	271.400	5000.00	66.64	4221.12	299.91	20.64	2112.00	1.18	831.46	.06	30.00
*	271.800	648.00	65.03	6654.58	466.17	20.33	2112.00	.10	6204.92	.00	30.00
*	271.800	1080.00	65.09	6682.14	466.53	20.39	2112.00	.16	3733.42	.01	30.00
*	271.800	1800.00	65.25	6757.13	468.43	20.55	2112.00	.27	2250.85	.01	30.00
*	271.800	3000.00	65.67	6954.70	473.51	20.97	2112.00	.43	1362.76	.02	30.00
*	271.800	5000.00	66.68	7437.59	485.71	21.98	2112.00	.67	832.34	.03	30.00
	272.000	648.00	65.03	4629.43	274.60	23.13	1056.00	.14	6207.02	.01	30.00
	272.000	1080.00	65.09	4645.76	274.89	23.19	1056.00	.23	3734.68	.01	30.00
	272.000	1800.00	65.25	4690.19	275.69	23.35	1056.00	.38	2251.61	.02	30.00
	272.000	3000.00	65.67	4806.98	277.79	23.77	1056.00	.62	1363.23	.03	30.00
	272.000	5000.00	66.68	5089.44	282.78	24.78	1056.00	.98	832.64	.04	30.00
	272.200	648.00	65.03	4107.26	316.62	26.03	1056.00	.16	6208.88	.01	30.00
	272.200	1080.00	65.09	4126.05	317.06	26.09	1056.00	.26	3735.80	.01	30.00
	272.200	1800.00	65.25	4177.21	318.33	26.25	1056.00	.43	2252.29	.02	30.00
	272.200	3000.00	65.68	4311.97	321.66	26.68	1056.00	.70	1363.66	.03	30.00
	272.200	5000.00	66.69	4641.25	329.65	27.69	1056.00	1.08	832.91	.05	30.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	272.800	648.00	65.03	4295.55	274.77	23.23	3168.00	.15	6214.71	.01	30.00
	272.800	1080.00	65.10	4312.30	275.58	23.30	3168.00	.25	3739.31	.01	30.00
	272.800	1800.00	65.26	4357.88	276.25	23.46	3168.00	.41	2254.43	.02	30.00
	272.800	3000.00	65.69	4477.42	277.91	23.89	3168.00	.67	1364.97	.03	30.00
	272.800	5000.00	66.73	4766.55	281.87	24.93	3168.00	1.05	833.75	.04	30.00
	273.400	648.00	65.04	4591.20	281.33	20.04	3168.00	.14	6220.94	.01	30.00
	273.400	1080.00	65.10	4608.86	281.64	20.10	3168.00	.23	3743.07	.01	30.00
	273.400	1800.00	65.27	4656.81	282.46	20.27	3168.00	.39	2256.70	.02	30.00
	273.400	3000.00	65.71	4782.38	283.96	20.71	3168.00	.63	1366.37	.03	30.00
	273.400	5000.00	66.76	5084.51	287.42	21.76	3168.00	.98	834.64	.04	30.00
	273.600	648.00	65.04	4112.91	331.65	20.24	1056.00	.16	6222.81	.01	30.00
	273.600	1080.00	65.10	4133.76	331.99	20.30	1056.00	.26	3744.19	.01	30.00
	273.600	1800.00	65.27	4190.44	333.38	20.47	1056.00	.43	2257.38	.02	30.00
	273.600	3000.00	65.71	4339.33	337.01	20.91	1056.00	.69	1366.80	.03	30.00
	273.600	5000.00	66.77	4701.16	345.67	21.97	1056.00	1.06	834.92	.05	30.00
*	273.800	648.00	65.04	5117.62	300.06	27.14	1056.00	.13	6225.12	.01	30.00
*	273.800	1080.00	65.10	5136.63	300.38	27.20	1056.00	.21	3745.59	.01	30.00
*	273.800	1800.00	65.27	5188.24	300.94	27.37	1056.00	.35	2258.23	.01	30.00
*	273.800	3000.00	65.72	5323.20	302.39	27.82	1056.00	.56	1367.32	.02	30.00
*	273.800	5000.00	66.79	5647.60	305.85	28.89	1056.00	.89	835.25	.04	30.00
	274.200	648.00	65.04	5007.63	276.05	29.04	2112.00	.13	6229.66	.01	30.00
	274.200	1080.00	65.10	5025.42	276.34	29.10	2112.00	.21	3748.32	.01	30.00
	274.200	1800.00	65.27	5073.74	277.14	29.27	2112.00	.35	2259.88	.01	30.00

274.200	3000.00	65.73	5200.08	278.62	29.73	2112.00	.58	1368.33	.02	30.00
274.200	5000.00	66.80	5502.94	281.60	30.80	2112.00	.91	835.89	.04	30.00
274.400	648.00	65.04	4503.62	291.94	23.94	1056.00	.14	6231.70	.01	30.00
274.400	1080.00	65.10	4522.41	292.44	24.00	1056.00	.24	3749.54	.01	30.00
274.400	1800.00	65.28	4573.51	293.78	24.18	1056.00	.39	2260.63	.02	30.00
274.400	3000.00	65.73	4707.47	296.10	24.63	1056.00	.64	1368.79	.03	30.00
274.400	5000.00	66.81	5029.70	300.23	25.71	1056.00	.99	836.19	.04	30.00
274.600	648.00	65.04	5282.95	311.59	24.04	1056.00	.12	6234.09	.01	30.00
274.600	1080.00	65.10	5303.10	311.89	24.10	1056.00	.20	3750.98	.01	30.00
274.600	1800.00	65.28	5357.78	312.46	24.28	1056.00	.34	2261.50	.01	30.00
274.600	3000.00	65.73	5500.65	313.96	24.73	1056.00	.55	1369.33	.02	30.00
274.600	5000.00	66.82	5843.34	317.53	25.82	1056.00	.86	836.53	.04	30.00
274.800	648.00	65.04	5407.15	281.61	27.14	1056.00	.12	6236.53	.00	30.00
274.800	1080.00	65.10	5425.50	281.86	27.20	1056.00	.20	3752.46	.01	30.00
274.800	1800.00	65.28	5475.30	282.52	27.38	1056.00	.33	2262.39	.01	30.00
274.800	3000.00	65.74	5605.54	284.50	27.84	1056.00	.54	1369.88	.02	30.00
274.800	5000.00	66.83	5919.02	289.45	28.93	1056.00	.84	836.88	.03	30.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
274.900	648.00	65.04	5518.68	296.97	25.24	528.00	.12	6237.78	.00	30.00
274.900	1080.00	65.10	5538.04	297.33	25.30	528.00	.20	3753.21	.01	30.00
274.900	1800.00	65.28	5590.63	298.15	25.48	528.00	.32	2262.85	.01	30.00
274.900	3000.00	65.74	5728.04	299.70	25.94	528.00	.52	1370.16	.02	30.00
274.900	5000.00	66.83	6057.64	303.38	27.03	528.00	.83	837.06	.03	30.00
275.000	648.00	65.04	5483.94	284.35	26.04	528.00	.12	6239.02	.00	30.00
275.000	1080.00	65.10	5502.53	284.86	26.10	528.00	.20	3753.96	.01	30.00
275.000	1800.00	65.28	5553.04	286.21	26.28	528.00	.32	2263.30	.01	30.00
275.000	3000.00	65.74	5685.43	288.43	26.74	528.00	.53	1370.44	.02	30.00
275.000	5000.00	66.83	6003.50	292.58	27.83	528.00	.83	837.23	.03	30.00
275.200	648.00	65.04	5971.56	309.71	28.04	1056.00	.11	6241.73	.00	30.00
275.200	1080.00	65.10	5991.86	309.97	28.10	1056.00	.18	3755.58	.01	30.00
275.200	1800.00	65.28	6046.94	310.81	28.28	1056.00	.30	2264.29	.01	30.00
275.200	3000.00	65.74	6191.00	312.75	28.74	1056.00	.48	1371.04	.02	30.00
275.200	5000.00	66.84	6536.61	316.78	29.84	1056.00	.76	837.62	.03	30.00
275.400	648.00	65.04	6213.32	310.07	30.94	1056.00	.10	6244.54	.00	30.00
275.400	1080.00	65.10	6233.71	310.38	31.00	1056.00	.17	3757.28	.01	30.00
275.400	1800.00	65.28	6289.07	311.21	31.18	1056.00	.29	2265.31	.01	30.00
275.400	3000.00	65.74	6433.84	313.36	31.64	1056.00	.47	1371.67	.02	30.00
275.400	5000.00	66.85	6781.91	318.50	32.75	1056.00	.74	838.01	.03	30.00
275.800	648.00	65.04	5057.21	296.24	26.94	2112.00	.13	6249.12	.01	30.00
275.800	1080.00	65.10	5076.80	296.64	27.00	2112.00	.21	3760.04	.01	30.00
275.800	1800.00	65.28	5129.97	297.32	27.18	2112.00	.35	2266.98	.01	30.00

275.800	3000.00	65.75	5268.77	298.60	27.65	2112.00	.57	1372.70	.02	30.00
275.800	5000.00	66.85	5600.96	301.65	28.75	2112.00	.89	838.67	.04	30.00
276.000	648.00	65.04	5258.02	280.09	28.64	1056.00	.12	6251.50	.01	30.00
276.000	1080.00	65.10	5276.59	280.28	28.70	1056.00	.20	3761.47	.01	30.00
276.000	1800.00	65.28	5326.95	280.80	28.88	1056.00	.34	2267.85	.01	30.00
276.000	3000.00	65.75	5458.44	282.13	29.35	1056.00	.55	1373.24	.02	30.00
276.000	5000.00	66.86	5774.77	288.18	30.46	1056.00	.87	839.01	.03	30.00
276.200	648.00	65.04	5302.58	292.26	24.14	1056.00	.12	6253.90	.01	30.00
276.200	1080.00	65.10	5322.06	292.49	24.20	1056.00	.20	3762.91	.01	30.00
276.200	1800.00	65.28	5374.89	293.10	24.38	1056.00	.33	2268.73	.01	30.00
276.200	3000.00	65.75	5512.84	294.67	24.85	1056.00	.54	1373.78	.02	30.00
276.200	5000.00	66.87	5843.33	298.42	25.97	1056.00	.86	839.35	.03	30.00
276.400	648.00	65.04	5704.13	305.73	25.94	1056.00	.11	6256.48	.00	30.00
276.400	1080.00	65.10	5724.57	305.98	26.00	1056.00	.19	3764.47	.01	30.00
276.400	1800.00	65.29	5780.04	306.68	26.19	1056.00	.31	2269.67	.01	30.00
276.400	3000.00	65.76	5924.83	308.15	26.66	1056.00	.51	1374.35	.02	30.00
276.400	5000.00	66.88	6271.12	311.35	27.78	1056.00	.80	839.72	.03	30.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	276.600	648.00	65.04	5888.81	315.91	25.94	1056.00	.11	6259.15	.00	30.00
	276.600	1080.00	65.11	5910.01	316.32	26.01	1056.00	.18	3766.07	.01	30.00
	276.600	1800.00	65.29	5967.59	317.22	26.19	1056.00	.30	2270.64	.01	30.00
	276.600	3000.00	65.76	6118.11	319.57	26.66	1056.00	.49	1374.95	.02	30.00
	276.600	5000.00	66.88	6479.76	325.16	27.78	1056.00	.77	840.10	.03	30.00
	277.000	648.00	65.04	5649.16	255.24	32.04	2112.00	.11	6264.26	.00	30.00
	277.000	1080.00	65.11	5666.41	255.68	32.11	2112.00	.19	3769.15	.01	30.00
	277.000	1800.00	65.29	5713.26	256.85	32.29	2112.00	.32	2272.51	.01	30.00
	277.000	3000.00	65.76	5836.05	259.69	32.76	2112.00	.51	1376.09	.02	30.00
	277.000	5000.00	66.89	6132.61	266.27	33.89	2112.00	.82	840.82	.03	30.00
*	277.200	648.00	65.04	4305.72	269.67	25.84	1056.00	.15	6266.21	.01	30.00
*	277.200	1080.00	65.11	4323.98	270.18	25.91	1056.00	.25	3770.33	.01	30.00
*	277.200	1800.00	65.29	4373.63	272.43	26.09	1056.00	.41	2273.22	.02	30.00
*	277.200	3000.00	65.76	4505.35	280.66	26.56	1056.00	.67	1376.53	.03	30.00
*	277.200	5000.00	66.89	4833.49	300.19	27.69	1056.00	1.03	841.10	.05	30.00
	277.400	648.00	65.04	3592.00	228.20	25.94	1056.00	.18	6267.84	.01	30.00
	277.400	1080.00	65.11	3607.49	228.46	26.01	1056.00	.30	3771.31	.01	30.00
	277.400	1800.00	65.29	3649.53	229.17	26.19	1056.00	.49	2273.81	.02	30.00
	277.400	3000.00	65.77	3759.47	231.01	26.67	1056.00	.80	1376.90	.03	30.00
	277.400	5000.00	66.90	4023.82	235.39	27.80	1056.00	1.24	841.34	.05	30.00
*	277.600	648.00	65.04	5112.11	328.77	24.74	1056.00	.13	6270.15	.01	30.00
*	277.600	1080.00	65.11	5134.61	329.04	24.81	1056.00	.21	3772.70	.01	30.00
*	277.600	1800.00	65.29	5195.64	329.77	24.99	1056.00	.35	2274.66	.02	30.00

*	277.600	3000.00	65.78	5354.92	331.66	25.48	1056.00	.56	1377.43	.02	30.00
*	277.600	5000.00	66.93	5737.76	336.16	26.63	1056.00	.87	841.68	.04	30.00
*	278.000	648.00	65.04	3235.63	205.24	28.04	2112.00	.20	6273.08	.01	30.00
*	278.000	1080.00	65.11	3249.96	205.56	28.11	2112.00	.33	3774.47	.01	30.00
*	278.000	1800.00	65.30	3288.87	206.41	28.30	2112.00	.55	2275.73	.02	30.00
*	278.000	3000.00	65.78	3390.67	208.63	28.78	2112.00	.88	1378.09	.04	30.00
*	278.000	5000.00	66.94	3634.49	213.84	29.94	2112.00	1.38	842.10	.06	30.00
*	278.200	648.00	65.04	2594.22	283.85	16.14	1056.00	.25	6274.25	.01	30.00
*	278.200	1080.00	65.11	2614.07	284.36	16.21	1056.00	.41	3775.18	.02	30.00
*	278.200	1800.00	65.30	2667.99	285.85	16.40	1056.00	.67	2276.17	.04	30.00
*	278.200	3000.00	65.79	2809.35	289.92	16.89	1056.00	1.07	1378.36	.06	30.00
*	278.200	5000.00	66.96	3151.51	299.54	18.06	1056.00	1.59	842.29	.09	30.00
*	278.400	648.00	65.04	4290.51	266.94	23.94	1056.00	.15	6276.20	.01	30.00
*	278.400	1080.00	65.11	4309.70	267.24	24.01	1056.00	.25	3776.35	.01	30.00
*	278.400	1800.00	65.31	4361.68	268.04	24.21	1056.00	.41	2276.88	.02	30.00
*	278.400	3000.00	65.81	4497.02	270.12	24.71	1056.00	.67	1378.80	.03	30.00
*	278.400	5000.00	67.00	4821.06	275.03	25.90	1056.00	1.04	842.57	.04	30.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
*	278.900	648.00	65.04	3071.82	239.54	20.94	2640.00	.21	6279.67	.01	30.00
*	278.900	1080.00	65.12	3090.00	239.88	21.02	2640.00	.35	3778.45	.02	30.00
*	278.900	1800.00	65.31	3139.16	240.80	21.21	2640.00	.57	2278.16	.03	30.00
*	278.900	3000.00	65.83	3261.14	243.06	21.73	2640.00	.92	1379.60	.04	30.00
*	278.900	5000.00	67.03	3557.43	248.47	22.93	2640.00	1.41	843.09	.07	30.00
	279.000	648.00	65.04	3650.20	281.44	19.04	528.00	.18	6280.50	.01	30.00
	279.000	1080.00	65.12	3671.01	281.79	19.12	528.00	.29	3778.94	.01	30.00
	279.000	1800.00	65.32	3727.38	282.74	19.32	528.00	.48	2278.46	.02	30.00
	279.000	3000.00	65.84	3873.98	285.19	19.84	528.00	.77	1379.79	.04	30.00
	279.000	5000.00	67.05	4224.31	290.97	21.05	528.00	1.18	843.22	.05	30.00
	279.600	648.00	65.04	3133.34	248.78	17.04	3168.00	.21	6284.75	.01	30.00
	279.600	1080.00	65.12	3152.58	249.07	17.12	3168.00	.34	3781.51	.02	30.00
	279.600	1800.00	65.33	3204.58	249.85	17.33	3168.00	.56	2280.03	.03	30.00
	279.600	3000.00	65.86	3339.35	251.87	17.86	3168.00	.90	1380.77	.04	30.00
	279.600	5000.00	67.11	3657.43	256.57	19.11	3168.00	1.37	843.86	.06	30.00
*	280.000	648.00	65.05	2198.34	263.09	14.95	2112.00	.29	6286.75	.02	30.00
*	280.000	1080.00	65.13	2219.11	263.71	15.03	2112.00	.49	3782.72	.03	30.00
*	280.000	1800.00	65.34	2275.35	265.38	15.24	2112.00	.79	2280.77	.05	30.00
*	280.000	3000.00	65.89	2421.60	269.67	15.79	2112.00	1.24	1381.24	.07	30.00
*	280.000	5000.00	67.17	2772.59	279.70	17.07	2112.00	1.80	844.19	.10	30.00
*	280.200	648.00	65.05	3596.71	223.65	29.75	1056.00	.18	6288.37	.01	30.00
*	280.200	1080.00	65.13	3615.15	224.22	29.83	1056.00	.30	3783.70	.01	30.00
*	280.200	1800.00	65.35	3664.94	225.17	30.05	1056.00	.49	2281.36	.02	30.00

*	280.200	3000.00	65.92	3792.87	226.90	30.62	1056.00	.79	1381.61	.03	30.00
*	280.200	5000.00	67.23	4091.56	230.87	31.93	1056.00	1.22	844.43	.05	30.00
	280.600	648.00	65.05	3700.49	223.82	21.15	2112.00	.18	6291.72	.01	30.00
	280.600	1080.00	65.13	3720.02	224.07	21.23	2112.00	.29	3785.72	.01	30.00
	280.600	1800.00	65.36	3771.04	224.73	21.46	2112.00	.48	2282.59	.02	30.00
	280.600	3000.00	65.93	3899.72	226.39	22.03	2112.00	.77	1382.38	.03	30.00
	280.600	5000.00	67.26	4201.62	230.24	23.36	2112.00	1.19	844.92	.05	30.00
	281.000	648.00	65.05	3081.33	233.86	16.25	2112.00	.21	6294.51	.01	30.00
	281.000	1080.00	65.13	3101.27	234.14	16.33	2112.00	.35	3787.41	.02	30.00
	281.000	1800.00	65.36	3154.98	234.88	16.56	2112.00	.57	2283.62	.03	30.00
	281.000	3000.00	65.95	3292.86	236.78	17.15	2112.00	.91	1383.02	.04	30.00
	281.000	5000.00	67.29	3612.53	241.13	18.49	2112.00	1.38	845.34	.06	30.00
*	281.600	648.00	65.05	2524.14	245.28	17.15	3168.00	.26	6297.94	.01	30.00
*	281.600	1080.00	65.14	2545.70	245.77	17.24	3168.00	.42	3789.48	.02	30.00
	281.600	1800.00	65.38	2603.79	247.08	17.48	3168.00	.69	2284.90	.04	30.00
	281.600	3000.00	65.99	2755.06	250.46	18.09	3168.00	1.09	1383.83	.06	30.00
	281.600	5000.00	67.37	3107.25	256.40	19.47	3168.00	1.61	845.89	.08	30.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
*	283.800	648.00	65.05	12349.62	722.37	21.05	11616.00	.05	6359.43	.00	25.00
*	283.800	1080.00	65.15	12409.96	722.87	21.15	11616.00	.09	3826.56	.00	25.00
*	283.800	1800.00	65.39	12589.22	724.36	21.39	11616.00	.14	2307.46	.01	25.00
*	283.800	3000.00	66.02	13045.09	728.12	22.02	11616.00	.23	1397.86	.01	25.00
*	283.800	5000.00	67.44	14083.04	736.63	23.44	11616.00	.36	854.98	.01	25.00
*	286.100	648.00	77.00	18495.00	825.00	30.00	12144.00	.04	6455.72	.00	25.00
*	286.100	1080.00	77.00	18495.00	825.00	30.00	12144.00	.06	3884.32	.00	25.00
*	286.100	1800.00	77.00	18495.00	825.00	30.00	12144.00	.10	2342.12	.00	25.00
*	286.100	3000.00	77.00	18495.00	825.00	30.00	12144.00	.16	1418.66	.01	25.00
*	286.100	5000.00	77.00	18495.00	825.00	30.00	12144.00	.27	867.46	.01	25.00
	286.400	648.00	77.00	18862.60	807.76	30.00	1584.00	.03	6468.52	.00	25.00
	286.400	1080.00	77.00	18862.63	807.76	30.00	1584.00	.06	3892.01	.00	25.00
	286.400	1800.00	77.00	18862.70	807.77	30.00	1584.00	.10	2346.73	.00	25.00
	286.400	3000.00	77.00	18862.87	807.77	30.00	1584.00	.16	1421.42	.01	25.00
	286.400	5000.00	77.00	18863.26	807.77	30.00	1584.00	.27	869.12	.01	25.00
	288.640	648.00	77.00	18367.05	777.67	30.00	11827.00	.04	6561.64	.00	30.00
	288.640	1080.00	77.00	18367.15	777.67	30.00	11827.00	.06	3947.88	.00	30.00
	288.640	1800.00	77.00	18367.43	777.67	30.00	11827.00	.10	2380.26	.00	30.00
	288.640	3000.00	77.00	18368.23	777.67	30.00	11827.00	.16	1441.54	.01	30.00
	288.640	5000.00	77.00	18370.38	777.69	30.00	11827.00	.27	881.19	.01	30.00
*	288.820	648.00	77.00	5970.77	280.75	30.20	950.00	.11	6564.07	.00	30.00
*	288.820	1080.00	77.00	5970.82	280.75	30.20	950.00	.18	3949.34	.01	30.00
*	288.820	1800.00	77.00	5970.94	280.75	30.20	950.00	.30	2381.13	.01	30.00

*	288.820	3000.00	77.00	5971.28	280.75	30.20	950.00	.50	1442.06	.02	30.00
*	288.820	5000.00	77.00	5972.21	280.75	30.20	950.00	.84	881.50	.03	30.00
	289.000	648.00	77.00	5766.77	290.03	26.80	950.00	.11	6566.42	.00	30.00
	289.000	1080.00	77.00	5766.78	290.03	26.80	950.00	.19	3950.75	.01	30.00
	289.000	1800.00	77.00	5766.83	290.03	26.80	950.00	.31	2381.98	.01	30.00
	289.000	3000.00	77.00	5766.94	290.03	26.80	950.00	.52	1442.57	.02	30.00
	289.000	5000.00	77.00	5767.26	290.04	26.80	950.00	.87	881.81	.03	30.00
	289.200	648.00	77.00	4674.60	288.38	27.10	1056.00	.14	6568.54	.01	30.00
	289.200	1080.00	77.00	4674.69	288.38	27.10	1056.00	.23	3952.02	.01	30.00
	289.200	1800.00	77.00	4674.92	288.38	27.10	1056.00	.39	2382.74	.02	30.00
	289.200	3000.00	77.00	4675.56	288.39	27.10	1056.00	.64	1443.03	.03	30.00
	289.200	5000.00	77.01	4677.33	288.41	27.11	1056.00	1.07	882.08	.05	30.00
	289.400	648.00	77.00	5417.40	292.50	26.00	1056.00	.12	6570.99	.00	30.00
	289.400	1080.00	77.00	5417.55	292.50	26.00	1056.00	.20	3953.49	.01	30.00
	289.400	1800.00	77.00	5417.98	292.50	26.00	1056.00	.33	2383.62	.01	30.00
	289.400	3000.00	77.01	5419.17	292.51	26.01	1056.00	.55	1443.56	.02	30.00
	289.400	5000.00	77.02	5422.47	292.54	26.02	1056.00	.92	882.40	.04	30.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
289.600	648.00	77.00	5588.75	281.66	25.10	1056.00	.12	6573.52	.00	30.00
289.600	1080.00	77.00	5589.03	281.66	25.10	1056.00	.19	3955.01	.01	30.00
289.600	1800.00	77.00	5589.80	281.66	25.10	1056.00	.32	2384.53	.01	30.00
289.600	3000.00	77.01	5591.96	281.68	25.11	1056.00	.54	1444.10	.02	30.00
289.600	5000.00	77.03	5597.95	281.71	25.13	1056.00	.89	882.73	.04	30.00
289.800	648.00	77.00	6176.02	295.51	27.30	1056.00	.10	6576.32	.00	30.00
289.800	1080.00	77.00	6176.36	295.52	27.30	1056.00	.17	3956.69	.01	30.00
289.800	1800.00	77.01	6177.30	295.52	27.31	1056.00	.29	2385.54	.01	30.00
289.800	3000.00	77.01	6179.92	295.54	27.31	1056.00	.49	1444.71	.02	30.00
289.800	5000.00	77.04	6187.19	295.60	27.34	1056.00	.81	883.09	.03	30.00
289.910	648.00	77.00	6582.81	283.32	32.00	580.00	.10	6577.95	.00	30.00
289.910	1080.00	77.00	6583.17	283.32	32.00	580.00	.16	3957.67	.01	30.00
289.910	1800.00	77.01	6584.18	283.33	32.01	580.00	.27	2386.13	.01	30.00
289.910	3000.00	77.02	6586.97	283.36	32.02	580.00	.46	1445.06	.02	30.00
289.910	5000.00	77.04	6594.72	283.45	32.04	580.00	.76	883.30	.03	30.00
290.120	648.00	77.00	6372.85	261.60	36.10	1108.00	.10	6580.98	.00	30.00
290.120	1080.00	77.00	6373.22	261.60	36.10	1108.00	.17	3959.48	.01	30.00
290.120	1800.00	77.01	6374.26	261.61	36.11	1108.00	.28	2387.22	.01	30.00
290.120	3000.00	77.02	6377.16	261.65	36.12	1108.00	.47	1445.72	.02	30.00
290.120	5000.00	77.05	6385.21	261.75	36.15	1108.00	.78	883.70	.03	30.00
290.300	648.00	77.00	6778.62	276.20	31.10	950.00	.10	6583.74	.00	30.00
290.300	1080.00	77.00	6779.04	276.21	31.10	950.00	.16	3961.14	.01	30.00
290.300	1800.00	77.01	6780.21	276.22	31.11	950.00	.27	2388.21	.01	30.00

	290.300	3000.00	77.02	6783.44	276.24	31.12	950.00	.44	1446.31	.02	30.00
	290.300	5000.00	77.05	6792.41	276.31	31.15	950.00	.74	884.05	.03	30.00
	290.480	648.00	77.00	6059.79	285.35	29.20	950.00	.11	6586.21	.00	30.00
	290.480	1080.00	77.00	6060.26	285.36	29.20	950.00	.18	3962.62	.01	30.00
	290.480	1800.00	77.01	6061.57	285.38	29.21	950.00	.30	2389.10	.01	30.00
	290.480	3000.00	77.02	6065.20	285.45	29.22	950.00	.49	1446.85	.02	30.00
	290.480	5000.00	77.05	6075.28	285.64	29.25	950.00	.82	884.37	.03	30.00
	290.700	648.00	77.00	5620.87	266.31	27.90	1161.00	.12	6589.01	.00	30.00
	290.700	1080.00	77.00	5621.33	266.32	27.90	1161.00	.19	3964.30	.01	30.00
	290.700	1800.00	77.01	5622.64	266.33	27.91	1161.00	.32	2390.11	.01	30.00
	290.700	3000.00	77.02	5626.26	266.35	27.92	1161.00	.53	1447.45	.02	30.00
	290.700	5000.00	77.06	5636.30	266.43	27.96	1161.00	.89	884.74	.03	30.00
*	291.050	648.00	77.00	9405.51	318.10	46.00	1848.00	.07	6596.46	.00	30.00
*	291.050	1080.00	77.00	9406.16	318.10	46.00	1848.00	.11	3968.77	.00	30.00
*	291.050	1800.00	77.01	9407.99	318.12	46.01	1848.00	.19	2392.79	.01	30.00
*	291.050	3000.00	77.03	9413.07	318.15	46.03	1848.00	.32	1449.06	.01	30.00
*	291.050	5000.00	77.07	9427.13	318.24	46.07	1848.00	.53	885.71	.02	30.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
*	291.080	648.00	77.00	6981.81	306.88	35.00	158.00	.09	6596.93	.00	30.00
*	291.080	1080.00	77.00	6982.48	306.89	35.00	158.00	.15	3969.05	.01	30.00
*	291.080	1800.00	77.01	6984.34	306.90	35.01	158.00	.26	2392.96	.01	30.00
*	291.080	3000.00	77.03	6989.51	306.95	35.03	158.00	.43	1449.16	.02	30.00
*	291.080	5000.00	77.07	7003.81	307.07	35.07	158.00	.71	885.77	.03	30.00
	291.300	648.00	77.00	5848.96	279.63	34.10	1161.00	.11	6599.84	.00	30.00
	291.300	1080.00	77.00	5849.58	279.64	34.10	1161.00	.18	3970.80	.01	30.00
	291.300	1800.00	77.01	5851.27	279.66	34.11	1161.00	.31	2394.01	.01	30.00
	291.300	3000.00	77.03	5855.98	279.71	34.13	1161.00	.51	1449.79	.02	30.00
	291.300	5000.00	77.07	5869.03	279.85	34.17	1161.00	.85	886.15	.03	30.00
	291.460	648.00	77.00	6439.89	269.96	33.00	844.00	.10	6602.17	.00	30.00
	291.460	1080.00	77.00	6440.51	269.96	33.00	844.00	.17	3972.20	.01	30.00
	291.460	1800.00	77.01	6442.22	269.97	33.01	844.00	.28	2394.85	.01	30.00
	291.460	3000.00	77.03	6447.00	270.00	33.03	844.00	.47	1450.30	.02	30.00
	291.460	5000.00	77.08	6460.21	270.10	33.08	844.00	.77	886.45	.03	30.00
	291.640	648.00	77.00	5755.68	285.85	28.70	950.00	.11	6604.51	.00	30.00
	291.640	1080.00	77.00	5756.39	285.85	28.70	950.00	.19	3973.61	.01	30.00
	291.640	1800.00	77.01	5758.36	285.86	28.71	950.00	.31	2395.69	.01	30.00
	291.640	3000.00	77.03	5763.82	285.89	28.73	950.00	.52	1450.80	.02	30.00
	291.640	5000.00	77.08	5778.94	285.96	28.78	950.00	.87	886.75	.03	30.00
	291.820	648.00	77.00	5808.39	272.34	30.00	950.00	.11	6606.88	.00	30.00
	291.820	1080.00	77.00	5809.10	272.36	30.00	950.00	.19	3975.03	.01	30.00
	291.820	1800.00	77.01	5811.05	272.39	30.01	950.00	.31	2396.55	.01	30.00

291.820	3000.00	77.03	5816.47	272.50	30.03	950.00	.52	1451.32	.02	30.00
291.820	5000.00	77.09	5831.47	272.78	30.09	950.00	.86	887.06	.03	30.00
291.920	648.00	77.00	6392.31	303.90	33.80	528.00	.10	6608.33	.00	30.00
291.920	1080.00	77.00	6393.13	303.92	33.80	528.00	.17	3975.89	.01	30.00
291.920	1800.00	77.01	6395.40	303.95	33.81	528.00	.28	2397.07	.01	30.00
291.920	3000.00	77.03	6401.72	304.04	33.83	528.00	.47	1451.63	.02	30.00
291.920	5000.00	77.09	6419.20	304.28	33.89	528.00	.78	887.25	.03	30.00
292.100	648.00	77.00	5523.72	267.57	33.10	950.00	.12	6610.58	.00	30.00
292.100	1080.00	77.00	5524.49	267.58	33.10	950.00	.20	3977.24	.01	30.00
292.100	1800.00	77.01	5526.63	267.61	33.11	950.00	.33	2397.88	.01	30.00
292.100	3000.00	77.03	5532.57	267.69	33.13	950.00	.54	1452.12	.02	30.00
292.100	5000.00	77.09	5548.99	267.91	33.19	950.00	.90	887.54	.03	30.00
292.280	648.00	77.00	5433.69	294.73	25.20	950.00	.12	6612.79	.00	30.00
292.280	1080.00	77.00	5434.56	294.74	25.20	950.00	.20	3978.57	.01	30.00
292.280	1800.00	77.01	5436.96	294.76	25.21	950.00	.33	2398.68	.01	30.00
292.280	3000.00	77.04	5443.65	294.82	25.24	950.00	.55	1452.59	.02	30.00
292.280	5000.00	77.10	5462.12	294.97	25.30	950.00	.92	887.83	.04	30.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	292.460	648.00	77.00	5955.08	345.87	29.90	950.00	.11	6615.21	.00	30.00
	292.460	1080.00	77.01	5956.19	345.88	29.91	950.00	.18	3980.03	.01	30.00
	292.460	1800.00	77.01	5959.24	345.90	29.91	950.00	.30	2399.55	.01	30.00
	292.460	3000.00	77.04	5967.72	345.97	29.94	950.00	.50	1453.12	.02	30.00
	292.460	5000.00	77.11	5991.14	346.16	30.01	950.00	.83	888.15	.04	30.00
*	292.600	648.00	77.00	7285.01	332.65	32.00	739.00	.09	6617.52	.00	30.00
*	292.600	1080.00	77.01	7286.16	332.66	32.01	739.00	.15	3981.41	.01	30.00
*	292.600	1800.00	77.02	7289.36	332.69	32.02	739.00	.25	2400.38	.01	30.00
*	292.600	3000.00	77.04	7298.25	332.79	32.04	739.00	.41	1453.62	.02	30.00
*	292.600	5000.00	77.12	7322.77	333.04	32.12	739.00	.68	888.45	.03	30.00
	293.070	648.00	77.00	8458.48	485.13	24.20	2481.00	.08	6626.52	.00	30.00
	293.070	1080.00	77.01	8460.31	485.14	24.21	2481.00	.13	3986.81	.01	30.00
	293.070	1800.00	77.02	8465.36	485.18	24.22	2481.00	.21	2403.62	.01	30.00
	293.070	3000.00	77.05	8479.42	485.27	24.25	2481.00	.35	1455.57	.01	30.00
	293.070	5000.00	77.13	8518.20	485.54	24.33	2481.00	.59	889.62	.02	30.00
	293.350	648.00	77.00	7459.31	398.74	24.10	1478.00	.09	6631.24	.00	30.00
	293.350	1080.00	77.01	7460.90	398.75	24.11	1478.00	.14	3989.65	.01	30.00
	293.350	1800.00	77.02	7465.25	398.79	24.12	1478.00	.24	2405.32	.01	30.00
	293.350	3000.00	77.05	7477.35	398.91	24.15	1478.00	.40	1456.59	.02	30.00
	293.350	5000.00	77.13	7510.73	399.23	24.23	1478.00	.67	890.24	.03	30.00
	293.570	648.00	77.00	8903.33	716.85	27.20	1161.00	.07	6635.67	.00	30.00
	293.570	1080.00	77.01	8906.25	716.93	27.21	1161.00	.12	3992.31	.01	30.00
	293.570	1800.00	77.02	8914.32	717.14	27.22	1161.00	.20	2406.92	.01	30.00

293.570	3000.00	77.05	8936.70	717.73	27.25	1161.00	.34	1457.55	.02	30.00
293.570	5000.00	77.14	8998.49	719.35	27.34	1161.00	.56	890.82	.03	30.00
293.750	648.00	77.00	6004.37	370.27	28.30	950.00	.11	6638.12	.00	30.00
293.750	1080.00	77.01	6005.96	370.38	28.31	950.00	.18	3993.77	.01	30.00
293.750	1800.00	77.02	6010.35	370.68	28.32	950.00	.30	2407.80	.01	30.00
293.750	3000.00	77.05	6022.54	371.51	28.35	950.00	.50	1458.08	.02	30.00
293.750	5000.00	77.14	6056.27	373.81	28.44	950.00	.83	891.14	.04	30.00
293.940	648.00	77.00	5976.98	332.94	25.00	1003.00	.11	6640.69	.00	30.00
293.940	1080.00	77.01	5978.44	332.95	25.01	1003.00	.18	3995.32	.01	30.00
293.940	1800.00	77.02	5982.46	333.00	25.02	1003.00	.30	2408.73	.01	30.00
293.940	3000.00	77.05	5993.64	333.12	25.05	1003.00	.50	1458.64	.02	30.00
293.940	5000.00	77.15	6024.44	333.45	25.15	1003.00	.83	891.47	.03	30.00
294.300	648.00	77.00	6485.00	309.55	33.90	1900.00	.10	6645.97	.00	30.00
294.300	1080.00	77.01	6486.48	309.56	33.91	1900.00	.17	3998.49	.01	30.00
294.300	1800.00	77.02	6490.57	309.59	33.92	1900.00	.28	2410.63	.01	30.00
294.300	3000.00	77.06	6501.92	309.68	33.96	1900.00	.46	1459.78	.02	30.00
294.300	5000.00	77.16	6533.15	309.92	34.06	1900.00	.77	892.16	.03	30.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
294.470	648.00	77.00	6407.02	302.44	30.10	897.00	.10	6648.43	.00	30.00
294.470	1080.00	77.01	6408.51	302.45	30.11	897.00	.17	3999.96	.01	30.00
294.470	1800.00	77.02	6412.59	302.48	30.12	897.00	.28	2411.52	.01	30.00
294.470	3000.00	77.06	6423.94	302.57	30.16	897.00	.47	1460.31	.02	30.00
294.470	5000.00	77.16	6455.16	302.82	30.26	897.00	.77	892.49	.03	30.00
294.500	648.00	77.00	6242.06	316.21	27.00	158.00	.10	6648.86	.00	30.00
294.500	1080.00	77.01	6243.61	316.22	27.01	158.00	.17	4000.22	.01	30.00
294.500	1800.00	77.02	6247.88	316.25	27.02	158.00	.29	2411.67	.01	30.00
294.500	3000.00	77.06	6259.72	316.33	27.06	158.00	.48	1460.41	.02	30.00
294.500	5000.00	77.16	6292.31	316.55	27.16	158.00	.79	892.54	.03	30.00
294.880	648.00	77.00	5767.57	291.72	36.90	2006.00	.11	6653.82	.00	30.00
294.880	1080.00	77.01	5769.08	291.75	36.91	2006.00	.19	4003.19	.01	30.00
294.880	1800.00	77.02	5773.24	291.85	36.92	2006.00	.31	2413.46	.01	30.00
294.880	3000.00	77.06	5784.79	292.11	36.96	2006.00	.52	1461.48	.02	30.00
294.880	5000.00	77.17	5816.59	292.83	37.07	2006.00	.86	893.19	.03	30.00
295.080	648.00	77.00	5468.32	327.80	23.00	1056.00	.12	6656.29	.01	30.00
295.080	1080.00	77.01	5470.08	327.82	23.01	1056.00	.20	4004.68	.01	30.00
295.080	1800.00	77.02	5474.93	327.86	23.02	1056.00	.33	2414.35	.01	30.00
295.080	3000.00	77.06	5488.38	327.97	23.06	1056.00	.55	1462.02	.02	30.00
295.080	5000.00	77.18	5525.35	328.28	23.18	1056.00	.90	893.51	.04	30.00
295.280	648.00	77.00	5067.34	303.47	27.00	1056.00	.13	6658.59	.01	30.00
295.280	1080.00	77.01	5069.04	303.50	27.01	1056.00	.21	4006.06	.01	30.00
295.280	1800.00	77.02	5073.74	303.58	27.02	1056.00	.35	2415.18	.02	30.00

295.280	3000.00	77.07	5086.76	303.83	27.07	1056.00	.59	1462.51	.03	30.00
295.280	5000.00	77.19	5122.57	304.48	27.19	1056.00	.98	893.81	.04	30.00
295.460	648.00	77.00	5462.99	271.53	25.70	950.00	.12	6660.81	.00	30.00
295.460	1080.00	77.01	5464.59	271.54	25.71	950.00	.20	4007.39	.01	30.00
295.460	1800.00	77.03	5468.99	271.59	25.73	950.00	.33	2415.98	.01	30.00
295.460	3000.00	77.07	5481.18	271.72	25.77	950.00	.55	1463.00	.02	30.00
295.460	5000.00	77.19	5514.67	272.09	25.89	950.00	.91	894.10	.04	30.00
295.640	648.00	77.00	5317.12	278.04	25.60	950.00	.12	6662.98	.00	30.00
295.640	1080.00	77.01	5318.83	278.05	25.61	950.00	.20	4008.69	.01	30.00
295.640	1800.00	77.03	5323.54	278.10	25.63	950.00	.34	2416.76	.01	30.00
295.640	3000.00	77.07	5336.60	278.25	25.67	950.00	.56	1463.47	.02	30.00
295.640	5000.00	77.20	5372.45	278.63	25.80	950.00	.93	894.39	.04	30.00
295.820	648.00	77.00	6222.88	344.36	26.10	950.00	.10	6665.51	.00	30.00
295.820	1080.00	77.01	6225.05	344.39	26.11	950.00	.17	4010.21	.01	30.00
295.820	1800.00	77.03	6231.03	344.48	26.13	950.00	.29	2417.67	.01	30.00
295.820	3000.00	77.08	6247.60	344.74	26.18	950.00	.48	1464.02	.02	30.00
295.820	5000.00	77.21	6293.10	345.43	26.31	950.00	.79	894.72	.03	30.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
295.960	648.00	77.00	5883.78	294.29	29.80	739.00	.11	6667.37	.00	30.00
295.960	1080.00	77.01	5885.71	294.31	29.81	739.00	.18	4011.33	.01	30.00
295.960	1800.00	77.03	5891.03	294.35	29.83	739.00	.31	2418.35	.01	30.00
295.960	3000.00	77.08	5905.75	294.49	29.88	739.00	.51	1464.42	.02	30.00
295.960	5000.00	77.21	5946.14	294.86	30.01	739.00	.84	894.96	.03	30.00
296.300	648.00	77.00	5486.43	284.47	27.90	1795.00	.12	6671.60	.00	30.00
296.300	1080.00	77.01	5488.37	284.50	27.91	1795.00	.20	4013.87	.01	30.00
296.300	1800.00	77.03	5493.71	284.57	27.93	1795.00	.33	2419.87	.01	30.00
296.300	3000.00	77.08	5508.52	284.76	27.98	1795.00	.54	1465.33	.02	30.00
296.300	5000.00	77.22	5549.11	285.30	28.12	1795.00	.90	895.52	.04	30.00
296.500	648.00	77.00	5267.75	328.78	24.20	1056.00	.12	6673.98	.01	30.00
296.500	1080.00	77.01	5270.06	328.84	24.21	1056.00	.20	4015.30	.01	30.00
296.500	1800.00	77.03	5276.41	329.00	24.23	1056.00	.34	2420.73	.02	30.00
296.500	3000.00	77.08	5294.02	329.46	24.28	1056.00	.57	1465.85	.02	30.00
296.500	5000.00	77.23	5342.36	330.69	24.43	1056.00	.94	895.83	.04	30.00
296.700	648.00	77.00	4920.57	311.15	24.80	1056.00	.13	6676.21	.01	30.00
296.700	1080.00	77.01	4922.85	311.18	24.81	1056.00	.22	4016.63	.01	30.00
296.700	1800.00	77.03	4929.11	311.28	24.83	1056.00	.37	2421.53	.02	30.00
296.700	3000.00	77.09	4946.45	311.54	24.89	1056.00	.61	1466.34	.03	30.00
296.700	5000.00	77.24	4993.96	312.25	25.04	1056.00	1.00	896.12	.04	30.00
296.900	648.00	77.00	5218.65	309.98	25.90	1056.00	.12	6678.57	.01	30.00
296.900	1080.00	77.01	5221.02	310.00	25.91	1056.00	.21	4018.05	.01	30.00
296.900	1800.00	77.03	5227.55	310.07	25.93	1056.00	.34	2422.38	.01	30.00

296.900	3000.00	77.09	5245.62	310.25	25.99	1056.00	.57	1466.85	.02	30.00
296.900	5000.00	77.25	5295.05	310.75	26.15	1056.00	.94	896.43	.04	30.00
297.130	648.00	77.00	5866.96	278.15	32.40	1214.00	.11	6681.62	.00	30.00
297.130	1080.00	77.01	5869.20	278.18	32.41	1214.00	.18	4019.88	.01	30.00
297.130	1800.00	77.03	5875.38	278.28	32.43	1214.00	.31	2423.48	.01	30.00
297.130	3000.00	77.10	5892.46	278.54	32.50	1214.00	.51	1467.51	.02	30.00
297.130	5000.00	77.26	5939.19	279.26	32.66	1214.00	.84	896.84	.03	30.00
297.330	648.00	77.00	5489.59	270.53	30.90	1056.00	.12	6684.11	.00	30.00
297.330	1080.00	77.01	5491.83	270.55	30.91	1056.00	.20	4021.38	.01	30.00
297.330	1800.00	77.04	5498.00	270.60	30.94	1056.00	.33	2424.38	.01	30.00
297.330	3000.00	77.10	5515.04	270.73	31.00	1056.00	.54	1468.05	.02	30.00
297.330	5000.00	77.27	5561.60	271.09	31.17	1056.00	.90	897.16	.03	30.00
297.510	648.00	77.00	4934.77	309.58	22.70	950.00	.13	6686.12	.01	30.00
297.510	1080.00	77.01	4937.36	309.61	22.71	950.00	.22	4022.58	.01	30.00
297.510	1800.00	77.04	4944.50	309.67	22.74	950.00	.36	2425.10	.02	30.00
297.510	3000.00	77.10	4964.24	309.86	22.80	950.00	.60	1468.49	.03	30.00
297.510	5000.00	77.27	5018.15	310.37	22.97	950.00	1.00	897.43	.04	30.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
297.680	648.00	77.00	5267.62	257.99	30.70	897.00	.12	6688.14	.00	30.00
297.680	1080.00	77.01	5269.84	258.01	30.71	897.00	.20	4023.80	.01	30.00
297.680	1800.00	77.04	5275.95	258.08	30.74	897.00	.34	2425.83	.01	30.00
297.680	3000.00	77.10	5292.86	258.27	30.80	897.00	.57	1468.93	.02	30.00
297.680	5000.00	77.28	5339.01	258.78	30.98	897.00	.94	897.69	.04	30.00
297.850	648.00	77.00	5127.58	353.05	18.10	897.00	.13	6690.12	.01	30.00
297.850	1080.00	77.01	5130.72	353.07	18.11	897.00	.21	4024.98	.01	30.00
297.850	1800.00	77.04	5139.38	353.13	18.14	897.00	.35	2426.55	.02	30.00
297.850	3000.00	77.11	5163.31	353.29	18.21	897.00	.58	1469.36	.03	30.00
297.850	5000.00	77.29	5228.55	353.73	18.39	897.00	.96	897.95	.04	30.00
298.020	648.00	77.01	5861.85	292.11	34.91	897.00	.11	6692.37	.00	30.00
298.020	1080.00	77.01	5864.51	292.18	34.91	897.00	.18	4026.33	.01	30.00
298.020	1800.00	77.04	5871.86	292.39	34.94	897.00	.31	2427.36	.01	30.00
298.020	3000.00	77.11	5892.19	292.96	35.01	897.00	.51	1469.85	.02	30.00
298.020	5000.00	77.30	5947.73	294.52	35.20	897.00	.84	898.25	.03	30.00
298.460	648.00	77.01	5210.38	279.37	26.91	2322.00	.12	6697.56	.01	30.00
298.460	1080.00	77.01	5213.12	279.40	26.91	2322.00	.21	4029.45	.01	30.00
298.460	1800.00	77.04	5220.66	279.48	26.94	2322.00	.34	2429.23	.01	30.00
298.460	3000.00	77.11	5241.48	279.71	27.01	2322.00	.57	1470.97	.02	30.00
298.460	5000.00	77.31	5298.15	280.34	27.21	2322.00	.94	898.93	.04	30.00
298.620	648.00	77.01	5240.92	352.34	26.01	844.00	.12	6699.45	.01	30.00
298.620	1080.00	77.02	5244.36	352.40	26.02	844.00	.21	4030.59	.01	30.00
298.620	1800.00	77.04	5253.87	352.57	26.04	844.00	.34	2429.91	.02	30.00

	298.620	3000.00	77.12	5280.11	353.00	26.12	844.00	.57	1471.38	.03	30.00
	298.620	5000.00	77.32	5351.61	353.78	26.32	844.00	.93	899.18	.04	30.00
*	298.800	648.00	77.01	7411.74	347.74	32.01	950.00	.09	6702.47	.00	30.00
*	298.800	1080.00	77.02	7415.26	347.76	32.02	950.00	.15	4032.40	.01	30.00
*	298.800	1800.00	77.04	7424.94	347.83	32.04	950.00	.24	2431.00	.01	30.00
*	298.800	3000.00	77.12	7451.67	348.00	32.12	950.00	.40	1472.04	.02	30.00
*	298.800	5000.00	77.33	7524.37	348.47	32.33	950.00	.66	899.58	.03	30.00
*	299.200	648.00	77.01	5140.34	275.91	27.71	2111.00	.13	6707.12	.01	30.00
*	299.200	1080.00	77.02	5143.28	275.93	27.72	2111.00	.21	4035.19	.01	30.00
*	299.200	1800.00	77.04	5151.39	275.98	27.74	2111.00	.35	2432.68	.01	30.00
*	299.200	3000.00	77.12	5173.74	276.12	27.82	2111.00	.58	1473.05	.02	30.00
*	299.200	5000.00	77.34	5234.47	276.50	28.04	2111.00	.96	900.20	.04	30.00
	299.600	648.00	77.01	5559.08	329.37	29.11	2112.00	.12	6712.15	.01	30.00
	299.600	1080.00	77.02	5562.61	329.40	29.12	2112.00	.19	4038.21	.01	30.00
	299.600	1800.00	77.05	5572.37	329.49	29.15	2112.00	.32	2434.50	.01	30.00
	299.600	3000.00	77.13	5599.26	329.73	29.23	2112.00	.54	1474.15	.02	30.00
	299.600	5000.00	77.36	5672.34	330.39	29.46	2112.00	.88	900.86	.04	30.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	299.800	648.00	77.01	4888.46	363.16	16.71	1056.00	.13	6714.37	.01	30.00
	299.800	1080.00	77.02	4892.53	363.18	16.72	1056.00	.22	4039.54	.01	30.00
	299.800	1800.00	77.05	4903.76	363.25	16.75	1056.00	.37	2435.30	.02	30.00
	299.800	3000.00	77.13	4934.70	363.42	16.83	1056.00	.61	1474.63	.03	30.00
	299.800	5000.00	77.36	5018.64	363.88	17.06	1056.00	1.00	901.15	.05	30.00
	300.000	648.00	77.01	4389.75	335.46	21.81	1056.00	.15	6716.35	.01	30.00
	300.000	1080.00	77.02	4393.63	335.66	21.82	1056.00	.25	4040.73	.01	30.00
	300.000	1800.00	77.05	4404.32	336.24	21.85	1056.00	.41	2436.01	.02	30.00
	300.000	3000.00	77.14	4433.84	337.81	21.94	1056.00	.68	1475.06	.03	30.00
	300.000	5000.00	77.38	4514.47	342.08	22.18	1056.00	1.11	901.42	.05	30.00
*	300.200	648.00	77.01	5847.21	362.68	22.11	1056.00	.11	6719.00	.00	30.00
*	300.200	1080.00	77.02	5851.59	362.71	22.12	1056.00	.18	4042.32	.01	30.00
*	300.200	1800.00	77.05	5863.69	362.81	22.15	1056.00	.31	2436.97	.01	30.00
*	300.200	3000.00	77.15	5896.97	363.09	22.25	1056.00	.51	1475.64	.02	30.00
*	300.200	5000.00	77.40	5987.05	363.83	22.50	1056.00	.84	901.77	.04	30.00
*	300.400	648.00	77.01	4671.26	358.14	21.11	1056.00	.14	6721.12	.01	30.00
*	300.400	1080.00	77.02	4675.79	358.19	21.12	1056.00	.23	4043.59	.01	30.00
*	300.400	1800.00	77.05	4688.26	358.35	21.15	1056.00	.38	2437.73	.02	30.00
*	300.400	3000.00	77.15	4722.58	358.77	21.25	1056.00	.64	1476.10	.03	30.00
*	300.400	5000.00	77.40	4815.42	359.92	21.50	1056.00	1.04	902.05	.05	30.00
*	300.600	648.00	77.01	5492.48	322.15	27.91	1056.00	.12	6723.60	.01	30.00
*	300.600	1080.00	77.02	5496.60	322.19	27.92	1056.00	.20	4045.09	.01	30.00
*	300.600	1800.00	77.06	5507.97	322.32	27.96	1056.00	.33	2438.63	.01	30.00

*	300.600	3000.00	77.15	5539.23	322.68	28.05	1056.00	.54	1476.64	.02	30.00
	300.600	5000.00	77.42	5623.71	323.64	28.32	1056.00	.89	902.38	.04	30.00
	301.000	648.00	77.01	6047.39	306.13	30.81	2112.00	.11	6729.08	.00	30.00
	301.000	1080.00	77.02	6051.58	306.21	30.82	2112.00	.18	4048.37	.01	30.00
	301.000	1800.00	77.06	6063.13	306.41	30.86	2112.00	.30	2440.61	.01	30.00
	301.000	3000.00	77.16	6094.86	306.96	30.96	2112.00	.49	1477.83	.02	30.00
	301.000	5000.00	77.43	6180.48	308.44	31.23	2112.00	.81	903.11	.03	30.00
*	301.200	648.00	77.01	5489.18	443.03	17.21	1056.00	.12	6731.56	.01	30.00
*	301.200	1080.00	77.02	5495.21	443.06	17.22	1056.00	.20	4049.87	.01	30.00
*	301.200	1800.00	77.06	5511.86	443.15	17.26	1056.00	.33	2441.50	.02	30.00
*	301.200	3000.00	77.16	5557.60	443.39	17.36	1056.00	.54	1478.38	.03	30.00
*	301.200	5000.00	77.44	5680.85	444.05	17.64	1056.00	.88	903.44	.04	30.00
	301.380	648.00	77.01	6056.63	401.57	19.01	950.00	.11	6734.03	.00	30.00
	301.380	1080.00	77.02	6062.20	401.61	19.02	950.00	.18	4051.35	.01	30.00
	301.380	1800.00	77.06	6077.55	401.73	19.06	950.00	.30	2442.40	.01	30.00
	301.380	3000.00	77.17	6119.72	402.06	19.17	950.00	.49	1478.92	.02	30.00
	301.380	5000.00	77.45	6233.32	402.93	19.45	950.00	.80	903.77	.04	30.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
301.540	648.00	77.01	6736.47	370.11	28.21	844.00	.10	6736.47	.00	30.00
301.540	1080.00	77.02	6741.73	370.16	28.22	844.00	.16	4052.81	.01	30.00
301.540	1800.00	77.06	6756.22	370.27	28.26	844.00	.27	2443.28	.01	30.00
301.540	3000.00	77.17	6796.03	370.58	28.37	844.00	.44	1479.45	.02	30.00
301.540	5000.00	77.46	6903.08	371.42	28.66	844.00	.72	904.09	.03	30.00
301.720	648.00	77.01	6925.70	387.29	24.11	950.00	.09	6739.29	.00	30.00
301.720	1080.00	77.02	6931.26	387.34	24.12	950.00	.16	4054.51	.01	30.00
301.720	1800.00	77.06	6946.58	387.50	24.16	950.00	.26	2444.29	.01	30.00
301.720	3000.00	77.17	6988.68	387.93	24.27	950.00	.43	1480.06	.02	30.00
301.720	5000.00	77.46	7101.93	389.08	24.56	950.00	.70	904.47	.03	30.00
301.900	648.00	77.01	5940.07	438.86	21.01	950.00	.11	6741.70	.01	30.00
301.900	1080.00	77.02	5946.42	438.92	21.02	950.00	.18	4055.96	.01	30.00
301.900	1800.00	77.06	5963.92	439.07	21.06	950.00	.30	2445.17	.01	30.00
301.900	3000.00	77.17	6011.97	439.48	21.17	950.00	.50	1480.59	.02	30.00
301.900	5000.00	77.46	6141.20	440.60	21.46	950.00	.81	904.79	.04	30.00
* 302.100	648.00	77.01	8030.59	359.12	38.01	1056.00	.08	6745.34	.00	30.00
* 302.100	1080.00	77.02	8035.86	359.24	38.02	1056.00	.13	4058.14	.01	30.00
* 302.100	1800.00	77.06	8050.38	359.55	38.06	1056.00	.22	2446.48	.01	30.00
* 302.100	3000.00	77.18	8090.30	360.43	38.18	1056.00	.37	1481.38	.01	30.00
* 302.100	5000.00	77.47	8197.87	362.78	38.47	1056.00	.61	905.27	.02	30.00
302.440	648.00	77.01	7044.87	432.64	21.01	1794.00	.09	6750.76	.00	30.00
302.440	1080.00	77.02	7051.38	432.70	21.02	1794.00	.15	4061.39	.01	30.00
302.440	1800.00	77.06	7069.35	432.87	21.06	1794.00	.25	2448.44	.01	30.00

302.440	3000.00	77.18	7118.66	433.34	21.18	1794.00	.42	1482.56	.02	30.00
302.440	5000.00	77.48	7251.07	434.60	21.48	1794.00	.69	906.00	.03	30.00
302.500	648.00	77.01	7665.45	399.45	28.31	316.00	.08	6751.80	.00	30.00
302.500	1080.00	77.02	7671.41	399.52	28.32	316.00	.14	4062.02	.01	30.00
302.500	1800.00	77.06	7687.86	399.69	28.36	316.00	.23	2448.81	.01	30.00
302.500	3000.00	77.18	7733.03	400.18	28.48	316.00	.39	1482.79	.02	30.00
302.500	5000.00	77.48	7854.42	401.48	28.78	316.00	.64	906.14	.03	30.00
302.680	648.00	77.01	8368.04	352.61	36.21	950.00	.08	6755.20	.00	30.00
302.680	1080.00	77.02	8373.37	352.67	36.22	950.00	.13	4064.06	.00	30.00
302.680	1800.00	77.07	8388.04	352.82	36.27	950.00	.21	2450.04	.01	30.00
302.680	3000.00	77.18	8428.34	353.23	36.38	950.00	.36	1483.53	.01	30.00
302.680	5000.00	77.49	8536.57	354.33	36.69	950.00	.59	906.59	.02	30.00
302.860	648.00	77.01	8004.92	375.67	36.21	950.00	.08	6758.46	.00	30.00
302.860	1080.00	77.02	8010.62	375.81	36.22	950.00	.13	4066.02	.01	30.00
302.860	1800.00	77.07	8026.34	376.20	36.27	950.00	.22	2451.22	.01	30.00
302.860	3000.00	77.18	8069.54	377.26	36.38	950.00	.37	1484.24	.01	30.00
302.860	5000.00	77.49	8185.96	380.12	36.69	950.00	.61	907.02	.02	30.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	303.020	648.00	77.01	7720.52	359.70	32.71	844.00	.08	6761.26	.00	30.00
	303.020	1080.00	77.02	7725.99	359.76	32.72	844.00	.14	4067.70	.01	30.00
	303.020	1800.00	77.07	7741.08	359.92	32.77	844.00	.23	2452.23	.01	30.00
	303.020	3000.00	77.18	7782.49	360.37	32.88	844.00	.39	1484.85	.01	30.00
	303.020	5000.00	77.49	7893.78	361.57	33.19	844.00	.63	907.39	.02	30.00
	303.200	648.00	77.01	9378.20	395.16	35.21	950.00	.07	6765.08	.00	30.00
	303.200	1080.00	77.02	9384.24	395.26	35.22	950.00	.12	4069.99	.00	30.00
	303.200	1800.00	77.07	9400.91	395.54	35.27	950.00	.19	2453.61	.01	30.00
	303.200	3000.00	77.18	9446.69	396.29	35.38	950.00	.32	1485.68	.01	30.00
	303.200	5000.00	77.49	9569.72	397.52	35.69	950.00	.52	907.89	.02	30.00
*	303.600	648.00	77.01	6256.10	378.68	23.81	2112.00	.10	6770.74	.00	30.00
*	303.600	1080.00	77.02	6261.97	378.88	23.82	2112.00	.17	4073.39	.01	30.00
*	303.600	1800.00	77.07	6278.16	379.43	23.87	2112.00	.29	2455.65	.01	30.00
*	303.600	3000.00	77.18	6322.69	380.94	23.98	2112.00	.47	1486.92	.02	30.00
*	303.600	5000.00	77.50	6442.87	384.98	24.30	2112.00	.78	908.65	.03	30.00
*	303.800	648.00	77.01	8131.76	379.81	37.61	1056.00	.08	6774.42	.00	30.00
*	303.800	1080.00	77.02	8137.67	379.88	37.62	1056.00	.13	4075.60	.01	30.00
*	303.800	1800.00	77.07	8153.95	380.08	37.67	1056.00	.22	2456.98	.01	30.00
*	303.800	3000.00	77.19	8198.65	380.64	37.79	1056.00	.37	1487.72	.01	30.00
*	303.800	5000.00	77.50	8318.73	382.13	38.10	1056.00	.60	909.14	.02	30.00
	304.000	648.00	77.01	8422.86	345.24	39.01	1056.00	.08	6778.23	.00	30.00
	304.000	1080.00	77.02	8428.32	345.52	39.02	1056.00	.13	4077.89	.00	30.00
	304.000	1800.00	77.07	8443.40	346.31	39.07	1056.00	.21	2458.36	.01	30.00

	304.000	3000.00	77.19	8484.92	348.46	39.19	1056.00	.35	1488.55	.01	30.00
	304.000	5000.00	77.51	8596.73	349.89	39.51	1056.00	.58	909.64	.02	30.00
*	304.600	648.00	77.01	6332.82	313.67	26.91	3168.00	.10	6786.83	.00	30.00
*	304.600	1080.00	77.02	6337.84	313.73	26.92	3168.00	.17	4083.06	.01	30.00
*	304.600	1800.00	77.07	6351.67	313.89	26.97	3168.00	.28	2461.46	.01	30.00
*	304.600	3000.00	77.19	6389.63	314.35	27.09	3168.00	.47	1490.42	.02	30.00
*	304.600	5000.00	77.51	6491.56	315.58	27.41	3168.00	.77	910.78	.03	30.00
	304.800	648.00	77.01	6411.31	326.83	27.21	1056.00	.10	6789.74	.00	30.00
	304.800	1080.00	77.03	6416.57	326.88	27.23	1056.00	.17	4084.80	.01	30.00
	304.800	1800.00	77.07	6431.05	326.99	27.27	1056.00	.28	2462.51	.01	30.00
	304.800	3000.00	77.19	6470.79	327.31	27.39	1056.00	.46	1491.06	.02	30.00
	304.800	5000.00	77.52	6577.39	328.16	27.72	1056.00	.76	911.17	.03	30.00
	305.000	648.00	77.01	6754.71	331.65	29.91	1056.00	.10	6792.79	.00	30.00
	305.000	1080.00	77.03	6760.11	331.70	29.93	1056.00	.16	4086.64	.01	30.00
	305.000	1800.00	77.07	6775.00	331.85	29.97	1056.00	.27	2463.61	.01	30.00
	305.000	3000.00	77.19	6815.84	332.26	30.09	1056.00	.44	1491.72	.02	30.00
	305.000	5000.00	77.52	6925.38	333.35	30.42	1056.00	.72	911.58	.03	30.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	305.210	648.00	77.01	6828.16	291.86	32.01	1108.00	.09	6796.04	.00	30.00
	305.210	1080.00	77.03	6832.97	291.90	32.03	1108.00	.16	4088.58	.01	30.00
	305.210	1800.00	77.07	6846.19	292.02	32.07	1108.00	.26	2464.78	.01	30.00
	305.210	3000.00	77.20	6882.51	292.35	32.20	1108.00	.44	1492.43	.02	30.00
	305.210	5000.00	77.53	6979.85	293.24	32.53	1108.00	.72	912.01	.03	30.00
*	305.380	648.00	77.01	8781.19	351.73	38.11	897.00	.07	6799.40	.00	30.00
*	305.380	1080.00	77.03	8787.01	351.91	38.13	897.00	.12	4090.60	.00	30.00
*	305.380	1800.00	77.07	8803.05	352.42	38.17	897.00	.21	2466.00	.01	30.00
*	305.380	3000.00	77.20	8847.16	353.81	38.30	897.00	.34	1493.16	.01	30.00
*	305.380	5000.00	77.53	8965.99	357.53	38.63	897.00	.56	912.45	.02	30.00
*	305.540	648.00	77.01	4693.11	281.94	21.71	844.00	.14	6801.10	.01	30.00
*	305.540	1080.00	77.03	4697.81	282.01	21.73	844.00	.23	4091.62	.01	30.00
*	305.540	1800.00	77.07	4710.77	282.20	21.77	844.00	.38	2466.61	.02	30.00
*	305.540	3000.00	77.20	4746.34	282.73	21.90	844.00	.63	1493.53	.03	30.00
*	305.540	5000.00	77.53	4841.80	284.15	22.23	844.00	1.03	912.68	.04	30.00
	305.740	648.00	77.01	4491.46	292.69	22.11	1056.00	.14	6803.13	.01	30.00
	305.740	1080.00	77.03	4496.33	292.76	22.13	1056.00	.24	4092.84	.01	30.00
	305.740	1800.00	77.07	4509.76	292.95	22.17	1056.00	.40	2467.35	.02	30.00
	305.740	3000.00	77.20	4546.61	293.48	22.30	1056.00	.66	1493.98	.03	30.00
	305.740	5000.00	77.54	4645.49	294.88	22.64	1056.00	1.08	912.95	.05	30.00
	305.920	648.00	77.01	5190.82	275.50	27.11	950.00	.12	6805.25	.01	30.00
	305.920	1080.00	77.03	5195.55	275.57	27.13	950.00	.21	4094.11	.01	30.00
	305.920	1800.00	77.07	5208.57	275.76	27.17	950.00	.35	2468.11	.01	30.00

305.920	3000.00	77.20	5244.29	276.29	27.30	950.00	.57	1494.44	.02	30.00
305.920	5000.00	77.55	5340.03	277.71	27.65	950.00	.94	913.23	.04	30.00
306.080	648.00	77.01	4982.89	284.74	22.91	844.00	.13	6807.05	.01	30.00
306.080	1080.00	77.03	4987.88	284.79	22.93	844.00	.22	4095.20	.01	30.00
306.080	1800.00	77.08	5001.62	284.92	22.98	844.00	.36	2468.76	.02	30.00
306.080	3000.00	77.21	5039.28	285.28	23.11	844.00	.60	1494.83	.02	30.00
306.080	5000.00	77.56	5140.03	286.24	23.46	844.00	.97	913.47	.04	30.00
306.260	648.00	77.01	4996.31	323.49	22.21	950.00	.13	6809.09	.01	30.00
306.260	1080.00	77.03	5002.03	323.56	22.23	950.00	.22	4096.42	.01	30.00
306.260	1800.00	77.08	5017.79	323.76	22.28	950.00	.36	2469.50	.02	30.00
306.260	3000.00	77.21	5060.99	324.29	22.41	950.00	.59	1495.28	.03	30.00
306.260	5000.00	77.57	5176.61	325.70	22.77	950.00	.97	913.75	.04	30.00
306.300	648.00	77.01	5112.30	320.19	25.61	211.00	.13	6809.55	.01	30.00
306.300	1080.00	77.03	5118.00	320.28	25.63	211.00	.21	4096.70	.01	30.00
306.300	1800.00	77.08	5133.69	320.52	25.68	211.00	.35	2469.66	.02	30.00
306.300	3000.00	77.21	5176.73	321.19	25.81	211.00	.58	1495.38	.03	30.00
306.300	5000.00	77.57	5291.97	322.97	26.17	211.00	.94	913.81	.04	30.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
*	306.480	648.00	77.01	3922.51	323.28	16.61	950.00	.17	6811.15	.01	30.00
*	306.480	1080.00	77.03	3928.37	323.35	16.63	950.00	.27	4097.66	.01	30.00
*	306.480	1800.00	77.08	3944.49	323.55	16.68	950.00	.46	2470.24	.02	30.00
*	306.480	3000.00	77.21	3988.69	324.10	16.81	950.00	.75	1495.73	.04	30.00
*	306.480	5000.00	77.58	4106.84	325.56	17.18	950.00	1.22	914.02	.06	30.00
*	306.640	648.00	77.01	6210.10	291.59	33.21	844.00	.10	6813.39	.00	30.00
*	306.640	1080.00	77.03	6215.48	291.66	33.23	844.00	.17	4099.00	.01	30.00
*	306.640	1800.00	77.08	6230.29	291.87	33.28	844.00	.29	2471.05	.01	30.00
*	306.640	3000.00	77.22	6270.88	292.42	33.42	844.00	.48	1496.22	.02	30.00
*	306.640	5000.00	77.60	6379.29	293.91	33.80	844.00	.78	914.32	.03	30.00
*	306.980	648.00	77.01	5095.92	320.40	24.91	1794.00	.13	6817.31	.01	30.00
*	306.980	1080.00	77.03	5102.18	320.52	24.93	1794.00	.21	4101.36	.01	30.00
*	306.980	1800.00	77.08	5119.40	320.84	24.98	1794.00	.35	2472.47	.02	30.00
*	306.980	3000.00	77.22	5166.55	321.72	25.12	1794.00	.58	1497.08	.03	30.00
*	306.980	5000.00	77.61	5289.83	324.01	25.51	1794.00	.95	914.85	.04	30.00
*	307.200	648.00	77.01	6840.97	297.47	33.21	1161.00	.09	6820.72	.00	30.00
*	307.200	1080.00	77.03	6846.70	297.55	33.23	1161.00	.16	4103.40	.01	30.00
*	307.200	1800.00	77.08	6862.47	297.77	33.28	1161.00	.26	2473.70	.01	30.00
*	307.200	3000.00	77.23	6905.67	298.39	33.43	1161.00	.43	1497.82	.02	30.00
*	307.200	5000.00	77.62	7020.90	300.02	33.82	1161.00	.71	915.30	.03	30.00
*	307.430	648.00	77.01	5108.79	288.66	24.71	1214.00	.13	6823.37	.01	30.00
*	307.430	1080.00	77.03	5114.47	288.74	24.73	1214.00	.21	4105.00	.01	30.00
*	307.430	1800.00	77.08	5130.09	288.96	24.78	1214.00	.35	2474.66	.01	30.00

*	307.430	3000.00	77.23	5172.85	289.57	24.93	1214.00	.58	1498.40	.02	30.00
*	307.430	5000.00	77.62	5286.88	291.20	25.32	1214.00	.95	915.66	.04	30.00
	307.980	648.00	77.01	5720.80	312.18	25.91	2903.00	.11	6830.49	.00	30.00
	307.980	1080.00	77.03	5727.04	312.27	25.93	2903.00	.19	4109.28	.01	30.00
	307.980	1800.00	77.09	5744.23	312.52	25.99	2903.00	.31	2477.24	.01	30.00
	307.980	3000.00	77.24	5791.27	313.19	26.14	2903.00	.52	1499.96	.02	30.00
	307.980	5000.00	77.64	5916.62	314.98	26.54	2903.00	.85	916.61	.03	30.00
	308.160	648.00	77.01	5779.99	326.99	24.31	950.00	.11	6832.85	.00	30.00
	308.160	1080.00	77.03	5786.67	327.08	24.33	950.00	.19	4110.69	.01	30.00
	308.160	1800.00	77.09	5805.08	327.36	24.39	950.00	.31	2478.09	.01	30.00
	308.160	3000.00	77.24	5855.42	328.11	24.54	950.00	.51	1500.47	.02	30.00
	308.160	5000.00	77.65	5989.49	330.10	24.95	950.00	.83	916.93	.03	30.00
	308.340	648.00	77.01	4953.53	333.70	20.81	950.00	.13	6834.86	.01	30.00
	308.340	1080.00	77.03	4960.42	333.75	20.83	950.00	.22	4111.90	.01	30.00
	308.340	1800.00	77.09	4979.35	333.87	20.89	950.00	.36	2478.82	.02	30.00
	308.340	3000.00	77.24	5031.08	334.21	21.04	950.00	.60	1500.91	.03	30.00
	308.340	5000.00	77.65	5168.51	335.12	21.45	950.00	.97	917.20	.04	30.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
308.520	648.00	77.01	5643.14	292.11	28.11	950.00	.11	6837.16	.00	30.00
308.520	1080.00	77.03	5649.23	292.20	28.13	950.00	.19	4113.28	.01	30.00
308.520	1800.00	77.09	5665.99	292.44	28.19	950.00	.32	2479.65	.01	30.00
308.520	3000.00	77.25	5711.83	293.09	28.35	950.00	.53	1501.42	.02	30.00
308.520	5000.00	77.66	5833.78	294.83	28.76	950.00	.86	917.51	.03	30.00
308.700	648.00	77.01	5535.13	331.54	24.11	950.00	.12	6839.42	.01	30.00
308.700	1080.00	77.03	5542.16	331.60	24.13	950.00	.19	4114.64	.01	30.00
308.700	1800.00	77.09	5561.50	331.76	24.19	950.00	.32	2480.46	.01	30.00
308.700	3000.00	77.25	5614.33	332.21	24.35	950.00	.53	1501.91	.02	30.00
308.700	5000.00	77.67	5754.52	333.40	24.77	950.00	.87	917.82	.04	30.00
308.980	648.00	77.01	5221.62	329.69	20.11	1478.00	.12	6842.72	.01	30.00
308.980	1080.00	77.03	5228.69	329.79	20.13	1478.00	.21	4116.63	.01	30.00
308.980	1800.00	77.09	5248.17	330.08	20.19	1478.00	.34	2481.66	.02	30.00
308.980	3000.00	77.25	5301.38	330.87	20.35	1478.00	.57	1502.64	.02	30.00
308.980	5000.00	77.68	5442.80	332.95	20.78	1478.00	.92	918.26	.04	30.00
* 309.180	648.00	77.01	6796.99	322.93	33.21	1056.00	.10	6845.80	.00	30.00
* 309.180	1080.00	77.03	6804.02	323.00	33.23	1056.00	.16	4118.47	.01	30.00
* 309.180	1800.00	77.09	6823.36	323.20	33.29	1056.00	.26	2482.77	.01	30.00
* 309.180	3000.00	77.26	6876.18	323.75	33.46	1056.00	.44	1503.31	.02	30.00
* 309.180	5000.00	77.69	7016.25	325.20	33.89	1056.00	.71	918.67	.03	30.00
309.360	648.00	77.01	6168.97	329.94	28.71	950.00	.11	6848.31	.00	30.00
309.360	1080.00	77.03	6176.24	330.04	28.73	950.00	.17	4119.98	.01	30.00
309.360	1800.00	77.09	6196.27	330.33	28.79	950.00	.29	2483.68	.01	30.00

	309.360	3000.00	77.26	6251.00	331.13	28.96	950.00	.48	1503.86	.02	30.00
	309.360	5000.00	77.69	6396.20	333.22	29.39	950.00	.78	919.01	.03	30.00
	309.540	648.00	77.01	6735.02	443.84	25.81	950.00	.10	6851.06	.00	30.00
	309.540	1080.00	77.03	6744.83	444.07	25.83	950.00	.16	4121.63	.01	30.00
	309.540	1800.00	77.10	6771.84	444.68	25.90	950.00	.27	2484.67	.01	30.00
	309.540	3000.00	77.26	6845.67	446.35	26.06	950.00	.44	1504.46	.02	30.00
	309.540	5000.00	77.70	7042.11	450.76	26.50	950.00	.71	919.38	.03	30.00
	309.900	648.00	77.01	5411.09	333.83	24.81	1900.00	.12	6855.46	.01	30.00
	309.900	1080.00	77.04	5418.60	333.90	24.84	1900.00	.20	4124.28	.01	30.00
	309.900	1800.00	77.10	5439.27	334.09	24.90	1900.00	.33	2486.27	.01	30.00
	309.900	3000.00	77.27	5495.70	334.62	25.07	1900.00	.55	1505.43	.02	30.00
	309.900	5000.00	77.71	5645.13	336.03	25.51	1900.00	.89	919.98	.04	30.00
*	310.260	648.00	77.01	8092.64	304.33	46.71	1900.00	.08	6862.05	.00	30.00
*	310.260	1080.00	77.04	8099.61	304.42	46.74	1900.00	.13	4128.24	.00	30.00
*	310.260	1800.00	77.10	8118.80	304.66	46.80	1900.00	.22	2488.65	.01	30.00
*	310.260	3000.00	77.27	8171.15	305.34	46.97	1900.00	.37	1506.86	.01	30.00
*	310.260	5000.00	77.72	8309.77	307.12	47.42	1900.00	.60	920.86	.02	30.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
*	310.780	648.00	77.01	4661.48	339.12	21.11	2744.00	.14	6867.54	.01	30.00
*	310.780	1080.00	77.04	4669.41	339.24	21.14	2744.00	.23	4131.53	.01	30.00
*	310.780	1800.00	77.10	4691.24	339.57	21.20	2744.00	.38	2490.64	.02	30.00
*	310.780	3000.00	77.27	4750.81	340.48	21.37	2744.00	.63	1508.07	.03	30.00
*	310.780	5000.00	77.73	4908.56	342.88	21.83	2744.00	1.02	921.60	.05	30.00
	310.940	648.00	77.01	4869.69	335.37	20.81	844.00	.13	6869.30	.01	30.00
	310.940	1080.00	77.04	4877.50	335.52	20.84	844.00	.22	4132.59	.01	30.00
	310.940	1800.00	77.10	4898.98	335.94	20.90	844.00	.37	2491.27	.02	30.00
	310.940	3000.00	77.28	4957.64	337.06	21.08	844.00	.61	1508.46	.03	30.00
	310.940	5000.00	77.74	5113.22	340.03	21.54	844.00	.98	921.84	.04	30.00
	311.020	648.00	77.01	5141.06	370.88	26.11	422.00	.13	6870.23	.01	30.00
	311.020	1080.00	77.04	5149.81	370.98	26.14	422.00	.21	4133.15	.01	30.00
	311.020	1800.00	77.10	5173.90	371.28	26.20	422.00	.35	2491.61	.02	30.00
	311.020	3000.00	77.28	5239.62	372.09	26.38	422.00	.57	1508.66	.03	30.00
	311.020	5000.00	77.75	5413.35	374.22	26.85	422.00	.92	921.97	.04	30.00
	311.200	648.00	77.01	5366.47	337.20	23.11	950.00	.12	6872.41	.01	30.00
	311.200	1080.00	77.04	5374.56	337.30	23.14	950.00	.20	4134.46	.01	30.00
	311.200	1800.00	77.10	5396.82	337.59	23.20	950.00	.33	2492.40	.01	30.00
	311.200	3000.00	77.28	5457.51	338.36	23.38	950.00	.55	1509.14	.02	30.00
	311.200	5000.00	77.75	5617.82	340.40	23.85	950.00	.89	922.27	.04	30.00
	311.700	648.00	77.01	5080.71	314.50	21.21	2640.00	.13	6878.16	.01	30.00
	311.700	1080.00	77.04	5088.51	314.60	21.24	2640.00	.21	4137.92	.01	30.00
	311.700	1800.00	77.11	5109.96	314.89	21.31	2640.00	.35	2494.48	.02	30.00

	311.700	3000.00	77.29	5168.40	315.67	21.49	2640.00	.58	1510.41	.03	30.00
	311.700	5000.00	77.78	5322.47	317.72	21.98	2640.00	.94	923.05	.04	30.00
*	311.900	648.00	77.01	3964.30	331.73	14.91	1056.00	.16	6879.96	.01	30.00
*	311.900	1080.00	77.04	3972.58	331.85	14.94	1056.00	.27	4139.00	.01	30.00
*	311.900	1800.00	77.11	3995.39	332.16	15.01	1056.00	.45	2495.13	.02	30.00
*	311.900	3000.00	77.29	4057.50	333.01	15.19	1056.00	.74	1510.80	.04	30.00
*	311.900	5000.00	77.78	4221.24	335.24	15.68	1056.00	1.18	923.30	.06	30.00
	312.100	648.00	77.01	3392.73	305.47	14.11	1056.00	.19	6881.49	.01	30.00
	312.100	1080.00	77.04	3400.52	305.57	14.14	1056.00	.32	4139.92	.02	30.00
	312.100	1800.00	77.11	3421.92	305.85	14.21	1056.00	.53	2495.69	.03	30.00
	312.100	3000.00	77.30	3480.19	306.62	14.40	1056.00	.86	1511.14	.05	30.00
	312.100	5000.00	77.80	3633.51	308.64	14.90	1056.00	1.38	923.51	.07	30.00
*	312.350	648.00	77.02	4856.17	313.57	23.72	1320.00	.13	6884.24	.01	30.00
*	312.350	1080.00	77.04	4864.59	313.69	23.74	1320.00	.22	4141.57	.01	30.00
*	312.350	1800.00	77.12	4887.73	314.00	23.82	1320.00	.37	2496.69	.02	30.00
*	312.350	3000.00	77.32	4950.58	314.84	24.02	1320.00	.61	1511.75	.03	30.00
*	312.350	5000.00	77.84	5114.97	317.03	24.54	1320.00	.98	923.88	.04	30.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
312.580	648.00	77.02	4651.04	300.29	21.82	1214.00	.14	6886.66	.01	30.00
312.580	1080.00	77.04	4659.40	300.39	21.84	1214.00	.23	4143.03	.01	30.00
312.580	1800.00	77.12	4682.36	300.65	21.92	1214.00	.38	2497.57	.02	30.00
312.580	3000.00	77.32	4744.64	301.37	22.12	1214.00	.63	1512.28	.03	30.00
312.580	5000.00	77.85	4905.22	303.21	22.65	1214.00	1.02	924.21	.04	30.00
312.780	648.00	77.02	4799.04	313.25	20.02	1056.00	.14	6888.84	.01	30.00
312.780	1080.00	77.04	4807.74	313.46	20.04	1056.00	.22	4144.33	.01	30.00
312.780	1800.00	77.12	4831.65	314.02	20.12	1056.00	.37	2498.35	.02	30.00
312.780	3000.00	77.33	4896.60	315.00	20.33	1056.00	.61	1512.76	.03	30.00
312.780	5000.00	77.86	5066.11	316.62	20.86	1056.00	.99	924.51	.04	30.00
312.980	648.00	77.02	4728.82	303.73	21.12	1056.00	.14	6890.98	.01	30.00
312.980	1080.00	77.04	4737.38	303.83	21.14	1056.00	.23	4145.62	.01	30.00
312.980	1800.00	77.12	4760.91	304.10	21.22	1056.00	.38	2499.13	.02	30.00
312.980	3000.00	77.33	4824.70	304.83	21.43	1056.00	.62	1513.23	.03	30.00
312.980	5000.00	77.87	4991.09	306.74	21.97	1056.00	1.00	924.80	.04	30.00
313.180	648.00	77.02	5353.06	309.28	24.02	1056.00	.12	6893.40	.01	30.00
313.180	1080.00	77.04	5361.89	309.36	24.04	1056.00	.20	4147.08	.01	30.00
313.180	1800.00	77.12	5386.13	309.56	24.12	1056.00	.33	2500.01	.01	30.00
313.180	3000.00	77.34	5451.85	310.13	24.34	1056.00	.55	1513.77	.02	30.00
313.180	5000.00	77.89	5622.91	311.60	24.89	1056.00	.89	925.13	.04	30.00
313.380	648.00	77.02	4368.39	305.59	22.22	1056.00	.15	6895.38	.01	30.00
313.380	1080.00	77.05	4377.22	305.67	22.25	1056.00	.25	4148.26	.01	30.00
313.380	1800.00	77.12	4401.50	305.90	22.32	1056.00	.41	2500.72	.02	30.00

313.380	3000.00	77.34	4467.27	306.50	22.54	1056.00	.67	1514.20	.03	30.00
313.380	5000.00	77.89	4638.41	308.08	23.09	1056.00	1.08	925.41	.05	30.00
313.580	648.00	77.02	4164.16	362.54	14.82	1056.00	.16	6897.26	.01	30.00
313.580	1080.00	77.05	4174.75	362.71	14.85	1056.00	.26	4149.40	.01	30.00
313.580	1800.00	77.13	4203.82	363.18	14.93	1056.00	.43	2501.41	.02	30.00
313.580	3000.00	77.34	4282.66	364.45	15.14	1056.00	.70	1514.62	.04	30.00
313.580	5000.00	77.91	4488.19	367.75	15.71	1056.00	1.11	925.67	.06	30.00
313.780	648.00	77.02	4348.40	284.06	22.92	1056.00	.15	6899.23	.01	30.00
313.780	1080.00	77.05	4356.91	284.17	22.95	1056.00	.25	4150.58	.01	30.00
313.780	1800.00	77.13	4380.29	284.48	23.03	1056.00	.41	2502.12	.02	30.00
313.780	3000.00	77.35	4443.58	285.32	23.25	1056.00	.68	1515.06	.03	30.00
313.780	5000.00	77.93	4607.97	287.47	23.83	1056.00	1.09	925.94	.05	30.00
313.950	648.00	77.02	5285.90	287.60	25.12	897.00	.12	6901.26	.01	30.00
313.950	1080.00	77.05	5294.67	287.67	25.15	897.00	.20	4151.80	.01	30.00
313.950	1800.00	77.13	5318.73	287.85	25.23	897.00	.34	2502.86	.01	30.00
313.950	3000.00	77.36	5383.76	288.33	25.46	897.00	.56	1515.50	.02	30.00
313.950	5000.00	77.94	5551.96	289.59	26.04	897.00	.90	926.22	.04	30.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	314.170	648.00	77.02	4236.88	251.81	26.82	1161.00	.15	6903.37	.01	30.00
	314.170	1080.00	77.05	4244.65	251.90	26.85	1161.00	.25	4153.07	.01	30.00
	314.170	1800.00	77.13	4265.99	252.13	26.93	1161.00	.42	2503.62	.02	30.00
	314.170	3000.00	77.36	4323.69	252.78	27.16	1161.00	.69	1515.97	.03	30.00
	314.170	5000.00	77.94	4473.12	254.44	27.74	1161.00	1.12	926.51	.05	30.00
*	314.750	648.00	77.02	3711.26	339.51	15.42	3061.00	.17	6908.24	.01	30.00
*	314.750	1080.00	77.05	3722.01	339.73	15.45	3061.00	.29	4156.00	.02	30.00
*	314.750	1800.00	77.14	3751.53	340.34	15.54	3061.00	.48	2505.40	.03	30.00
*	314.750	3000.00	77.38	3831.40	341.98	15.78	3061.00	.78	1517.05	.04	30.00
*	314.750	5000.00	77.99	4042.44	347.88	16.39	3061.00	1.24	927.19	.06	30.00
*	314.890	648.00	77.02	4413.56	309.30	20.22	739.00	.15	6909.64	.01	30.00
*	314.890	1080.00	77.05	4423.72	309.47	20.25	739.00	.24	4156.84	.01	30.00
*	314.890	1800.00	77.14	4451.57	309.92	20.34	739.00	.40	2505.90	.02	30.00
	314.890	3000.00	77.39	4526.78	311.15	20.59	739.00	.66	1517.36	.03	30.00
	314.890	5000.00	78.01	4721.04	314.29	21.21	739.00	1.06	927.39	.05	30.00
	315.260	648.00	77.02	4073.62	296.88	19.52	1953.00	.16	6913.05	.01	30.00
	315.260	1080.00	77.05	4083.83	296.98	19.55	1953.00	.26	4158.89	.01	30.00
	315.260	1800.00	77.15	4111.82	297.26	19.65	1953.00	.44	2507.14	.02	30.00
	315.260	3000.00	77.40	4187.15	298.01	19.90	1953.00	.72	1518.12	.03	30.00
	315.260	5000.00	78.04	4378.65	299.91	20.54	1953.00	1.14	927.86	.05	30.00
	315.630	648.00	77.02	3142.03	259.90	16.42	1953.00	.21	6915.68	.01	30.00
	315.630	1080.00	77.06	3151.12	260.06	16.46	1953.00	.34	4160.48	.02	30.00
	315.630	1800.00	77.15	3176.06	260.50	16.55	1953.00	.57	2508.10	.03	30.00

	315.630	3000.00	77.41	3243.24	261.67	16.81	1953.00	.93	1518.71	.05	30.00
	315.630	5000.00	78.07	3415.86	264.66	17.47	1953.00	1.46	928.23	.07	30.00
	315.820	648.00	77.02	3150.07	287.54	15.52	1003.00	.21	6917.03	.01	30.00
	315.820	1080.00	77.06	3160.43	287.68	15.56	1003.00	.34	4161.29	.02	30.00
	315.820	1800.00	77.16	3188.81	288.05	15.66	1003.00	.56	2508.59	.03	30.00
	315.820	3000.00	77.42	3265.06	289.04	15.92	1003.00	.92	1519.01	.05	30.00
	315.820	5000.00	78.10	3459.92	291.56	16.60	1003.00	1.45	928.43	.07	30.00
	316.000	648.00	77.02	3024.28	229.29	19.32	950.00	.21	6918.27	.01	30.00
	316.000	1080.00	77.06	3032.88	229.56	19.36	950.00	.36	4162.03	.02	30.00
	316.000	1800.00	77.16	3056.46	230.30	19.46	950.00	.59	2509.04	.03	30.00
	316.000	3000.00	77.43	3119.93	232.28	19.73	950.00	.96	1519.29	.05	30.00
	316.000	5000.00	78.13	3282.75	237.29	20.43	950.00	1.52	928.60	.07	30.00
	316.180	648.00	77.02	3224.11	267.98	17.32	950.00	.20	6919.58	.01	30.00
	316.180	1080.00	77.06	3234.44	268.14	17.36	950.00	.33	4162.82	.02	30.00
	316.180	1800.00	77.17	3262.70	268.59	17.47	950.00	.55	2509.52	.03	30.00
	316.180	3000.00	77.45	3338.44	269.77	17.75	950.00	.90	1519.58	.05	30.00
	316.180	5000.00	78.16	3530.68	272.75	18.46	950.00	1.42	928.78	.07	30.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	316.360	648.00	77.02	3085.09	273.86	15.52	950.00	.21	6920.83	.01	30.00
	316.360	1080.00	77.06	3095.94	273.96	15.56	950.00	.35	4163.58	.02	30.00
	316.360	1800.00	77.17	3125.62	274.23	15.67	950.00	.58	2509.98	.03	30.00
	316.360	3000.00	77.46	3204.99	274.96	15.96	950.00	.94	1519.86	.05	30.00
	316.360	5000.00	78.19	3405.44	276.81	16.69	950.00	1.47	928.96	.07	30.00
*	316.550	648.00	77.02	6609.76	296.38	31.92	1003.00	.10	6923.68	.00	30.00
*	316.550	1080.00	77.06	6621.86	296.56	31.96	1003.00	.16	4165.29	.01	30.00
*	316.550	1800.00	77.18	6654.94	297.05	32.08	1003.00	.27	2511.01	.01	30.00
*	316.550	3000.00	77.47	6743.31	298.34	32.37	1003.00	.44	1520.49	.02	30.00
*	316.550	5000.00	78.22	6966.16	301.59	33.12	1003.00	.72	929.35	.03	30.00
*	316.900	648.00	77.02	3055.83	239.26	15.82	1847.00	.21	6926.10	.01	30.00
*	316.900	1080.00	77.06	3065.94	239.44	15.86	1847.00	.35	4166.75	.02	30.00
*	316.900	1800.00	77.18	3093.57	239.94	15.98	1847.00	.58	2511.89	.03	30.00
*	316.900	3000.00	77.47	3165.42	241.23	16.27	1847.00	.95	1521.03	.05	30.00
*	316.900	5000.00	78.22	3344.17	244.42	17.02	1847.00	1.50	929.70	.07	30.00
	317.350	648.00	77.02	3145.78	289.82	16.02	2375.00	.21	6929.30	.01	30.00
	317.350	1080.00	77.07	3158.02	289.99	16.07	2375.00	.34	4168.67	.02	30.00
	317.350	1800.00	77.19	3191.46	290.43	16.19	2375.00	.56	2513.06	.03	30.00
	317.350	3000.00	77.50	3283.03	291.64	16.50	2375.00	.91	1521.75	.05	30.00
	317.350	5000.00	78.29	3515.97	294.69	17.29	2375.00	1.42	930.16	.07	30.00
*	317.550	648.00	77.03	4707.36	257.80	29.03	1056.00	.14	6931.43	.01	30.00
*	317.550	1080.00	77.07	4718.95	257.91	29.07	1056.00	.23	4169.96	.01	30.00
*	317.550	1800.00	77.19	4750.55	258.19	29.19	1056.00	.38	2513.83	.02	30.00

*	317.550	3000.00	77.52	4834.51	258.95	29.52	1056.00	.62	1522.22	.03	30.00
*	317.550	5000.00	78.32	5043.59	260.83	30.32	1056.00	.99	930.46	.04	30.00
	317.620	648.00	77.03	5052.99	309.65	27.03	369.00	.13	6932.23	.01	30.00
	317.620	1080.00	77.07	5067.00	309.77	27.07	369.00	.21	4170.44	.01	30.00
	317.620	1800.00	77.19	5105.21	310.12	27.19	369.00	.35	2514.12	.02	30.00
	317.620	3000.00	77.52	5206.73	311.03	27.52	369.00	.58	1522.40	.02	30.00
	317.620	5000.00	78.33	5459.43	313.28	28.33	369.00	.92	930.57	.04	30.00
*	318.000	648.00	77.03	3665.08	271.54	20.43	2006.00	.18	6935.38	.01	30.00
*	318.000	1080.00	77.07	3677.51	271.80	20.47	2006.00	.29	4172.33	.01	30.00
*	318.000	1800.00	77.20	3711.42	272.51	20.60	2006.00	.48	2515.27	.02	30.00
*	318.000	3000.00	77.53	3801.76	274.38	20.93	2006.00	.79	1523.11	.04	30.00
*	318.000	5000.00	78.34	4028.14	279.01	21.74	2006.00	1.24	931.02	.06	30.00
	318.200	648.00	77.03	3727.90	254.41	18.53	1056.00	.17	6937.07	.01	30.00
	318.200	1080.00	77.07	3739.64	254.52	18.57	1056.00	.29	4173.35	.01	30.00
	318.200	1800.00	77.20	3771.66	254.80	18.70	1056.00	.48	2515.89	.02	30.00
	318.200	3000.00	77.53	3856.70	255.56	19.03	1056.00	.78	1523.48	.04	30.00
	318.200	5000.00	78.36	4068.08	257.44	19.86	1056.00	1.23	931.26	.05	30.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	318.380	648.00	77.03	3954.91	291.28	18.53	950.00	.16	6938.68	.01	30.00
	318.380	1080.00	77.07	3968.60	291.44	18.57	950.00	.27	4174.32	.01	30.00
	318.380	1800.00	77.20	4005.94	291.86	18.70	950.00	.45	2516.48	.02	30.00
	318.380	3000.00	77.54	4105.05	292.98	19.04	950.00	.73	1523.85	.03	30.00
	318.380	5000.00	78.38	4351.27	295.76	19.88	950.00	1.15	931.48	.05	30.00
	318.560	648.00	77.03	4044.86	236.01	22.13	950.00	.16	6940.33	.01	30.00
	318.560	1080.00	77.07	4056.09	236.14	22.17	950.00	.27	4175.31	.01	30.00
	318.560	1800.00	77.20	4086.70	236.51	22.30	950.00	.44	2517.07	.02	30.00
	318.560	3000.00	77.55	4167.94	237.48	22.65	950.00	.72	1524.21	.03	30.00
	318.560	5000.00	78.39	4369.66	239.89	23.49	950.00	1.14	931.72	.05	30.00
*	318.730	648.00	77.03	3096.51	260.13	17.13	897.00	.21	6941.52	.01	30.00
*	318.730	1080.00	77.08	3109.03	260.32	17.18	897.00	.35	4176.03	.02	30.00
*	318.730	1800.00	77.21	3143.18	260.86	17.31	897.00	.57	2517.51	.03	30.00
*	318.730	3000.00	77.55	3233.83	262.28	17.65	897.00	.93	1524.48	.05	30.00
*	318.730	5000.00	78.40	3459.11	265.77	18.50	897.00	1.45	931.89	.07	30.00
	318.910	648.00	77.03	3410.86	262.68	16.43	950.00	.19	6942.91	.01	30.00
	318.910	1080.00	77.08	3423.60	262.83	16.48	950.00	.32	4176.86	.02	30.00
	318.910	1800.00	77.21	3458.31	263.25	16.61	950.00	.52	2518.02	.03	30.00
	318.910	3000.00	77.56	3550.33	264.34	16.96	950.00	.84	1524.79	.04	30.00
	318.910	5000.00	78.43	3780.43	267.06	17.83	950.00	1.32	932.09	.06	30.00
	319.100	648.00	77.03	3083.16	227.79	23.13	1003.00	.21	6944.23	.01	30.00
	319.100	1080.00	77.08	3094.51	228.04	23.18	1003.00	.35	4177.66	.02	30.00
	319.100	1800.00	77.21	3125.48	228.71	23.31	1003.00	.58	2518.50	.03	30.00

	319.100	3000.00	77.57	3207.64	230.47	23.67	1003.00	.94	1525.09	.04	30.00
	319.100	5000.00	78.45	3411.66	234.80	24.55	1003.00	1.47	932.28	.07	30.00
	319.300	648.00	77.03	3681.07	313.96	20.33	1056.00	.18	6945.90	.01	30.00
	319.300	1080.00	77.08	3697.00	314.24	20.38	1056.00	.29	4178.67	.02	30.00
	319.300	1800.00	77.22	3740.39	314.98	20.52	1056.00	.48	2519.11	.02	30.00
	319.300	3000.00	77.59	3855.28	316.93	20.89	1056.00	.78	1525.47	.04	30.00
	319.300	5000.00	78.49	4141.72	321.76	21.79	1056.00	1.21	932.52	.06	30.00
*	319.600	648.00	77.03	2386.83	227.48	15.03	1584.00	.27	6947.52	.01	30.00
*	319.600	1080.00	77.08	2398.84	227.94	15.08	1584.00	.45	4179.64	.02	30.00
*	319.600	1800.00	77.23	2431.60	229.19	15.23	1584.00	.74	2519.70	.04	30.00
*	319.600	3000.00	77.60	2518.67	232.48	15.60	1584.00	1.19	1525.84	.06	30.00
*	319.600	5000.00	78.51	2735.94	240.48	16.51	1584.00	1.83	932.76	.10	30.00
	319.860	648.00	77.03	2387.09	227.49	15.03	1373.00	.27	6948.92	.01	30.00
	319.860	1080.00	77.09	2399.55	227.97	15.09	1373.00	.45	4180.49	.02	30.00
	319.860	1800.00	77.24	2433.49	229.26	15.24	1373.00	.74	2520.22	.04	30.00
	319.860	3000.00	77.63	2524.67	232.70	15.63	1373.00	1.19	1526.16	.06	30.00
	319.860	5000.00	78.59	2752.09	241.07	16.59	1373.00	1.82	932.97	.09	30.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
319.940	648.00	77.03	2672.60	230.71	18.53	422.00	.24	6949.41	.01	30.00
319.940	1080.00	77.09	2685.69	230.96	18.59	422.00	.40	4180.78	.02	30.00
319.940	1800.00	77.24	2721.25	231.65	18.74	422.00	.66	2520.40	.03	30.00
319.940	3000.00	77.65	2814.75	233.44	19.15	422.00	1.07	1526.27	.05	30.00
319.940	5000.00	78.62	3042.60	237.77	20.12	422.00	1.64	933.04	.08	30.00
320.150	648.00	77.03	3384.97	278.94	16.63	1108.00	.19	6951.01	.01	30.00
320.150	1080.00	77.09	3401.37	279.08	16.69	1108.00	.32	4181.75	.02	30.00
320.150	1800.00	77.25	3445.82	279.48	16.85	1108.00	.52	2520.99	.03	30.00
320.150	3000.00	77.67	3562.05	280.50	17.27	1108.00	.84	1526.63	.04	30.00
320.150	5000.00	78.67	3841.76	282.94	18.27	1108.00	1.30	933.28	.06	30.00
320.350	648.00	77.03	2648.12	252.17	15.33	1056.00	.24	6952.21	.01	30.00
320.350	1080.00	77.09	2663.34	252.46	15.39	1056.00	.41	4182.48	.02	30.00
320.350	1800.00	77.26	2704.66	253.28	15.56	1056.00	.67	2521.43	.04	30.00
320.350	3000.00	77.68	2812.89	255.39	15.98	1056.00	1.07	1526.91	.06	30.00
320.350	5000.00	78.69	3073.14	260.40	16.99	1056.00	1.63	933.46	.08	30.00
320.550	648.00	77.04	2901.37	214.65	22.84	1056.00	.22	6953.53	.01	30.00
320.550	1080.00	77.10	2914.55	214.90	22.90	1056.00	.37	4183.27	.02	30.00
320.550	1800.00	77.26	2950.32	215.59	23.06	1056.00	.61	2521.91	.03	30.00
320.550	3000.00	77.70	3043.80	217.38	23.50	1056.00	.99	1527.21	.05	30.00
320.550	5000.00	78.73	3269.04	221.62	24.53	1056.00	1.53	933.65	.07	30.00
320.750	648.00	77.04	3190.51	265.04	15.64	1056.00	.20	6954.97	.01	30.00
320.750	1080.00	77.10	3207.30	265.31	15.70	1056.00	.34	4184.14	.02	30.00
320.750	1800.00	77.27	3252.77	266.02	15.87	1056.00	.55	2522.44	.03	30.00

	320.750	3000.00	77.71	3371.25	267.88	16.31	1056.00	.89	1527.54	.04	30.00
	320.750	5000.00	78.76	3654.67	272.28	17.36	1056.00	1.37	933.87	.07	30.00
	320.950	648.00	77.04	3244.21	281.22	15.04	1056.00	.20	6956.44	.01	30.00
	320.950	1080.00	77.10	3262.32	281.51	15.10	1056.00	.33	4185.02	.02	30.00
	320.950	1800.00	77.27	3311.34	282.29	15.27	1056.00	.54	2522.98	.03	30.00
	320.950	3000.00	77.73	3439.06	284.33	15.73	1056.00	.87	1527.87	.04	30.00
	320.950	5000.00	78.79	3744.42	289.12	16.79	1056.00	1.34	934.09	.07	30.00
	321.050	648.00	77.04	3002.59	279.46	15.24	528.00	.22	6957.12	.01	30.00
	321.050	1080.00	77.10	3020.75	279.82	15.30	528.00	.36	4185.43	.02	30.00
	321.050	1800.00	77.28	3069.94	280.80	15.48	528.00	.59	2523.23	.03	30.00
	321.050	3000.00	77.73	3198.11	283.33	15.93	528.00	.94	1528.03	.05	30.00
	321.050	5000.00	78.80	3504.99	289.32	17.00	528.00	1.43	934.19	.07	30.00
*	321.150	648.00	77.04	3839.60	291.33	18.44	528.00	.17	6957.99	.01	30.00
*	321.150	1080.00	77.10	3858.70	291.60	18.50	528.00	.28	4185.96	.01	30.00
*	321.150	1800.00	77.28	3910.40	292.34	18.68	528.00	.46	2523.55	.02	30.00
*	321.150	3000.00	77.74	4044.76	294.25	19.14	528.00	.74	1528.23	.04	30.00
*	321.150	5000.00	78.83	4364.58	298.76	20.23	528.00	1.15	934.32	.05	30.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	321.250	648.00	77.04	3917.93	275.54	20.14	528.00	.17	6958.88	.01	30.00
	321.250	1080.00	77.10	3936.25	275.74	20.20	528.00	.27	4186.49	.01	30.00
	321.250	1800.00	77.28	3985.78	276.30	20.38	528.00	.45	2523.87	.02	30.00
	321.250	3000.00	77.75	4114.29	277.73	20.85	528.00	.73	1528.43	.03	30.00
	321.250	5000.00	78.83	4418.89	281.10	21.93	528.00	1.13	934.45	.05	30.00
	321.550	648.00	77.04	4824.15	296.53	21.64	1584.00	.13	6962.15	.01	30.00
	321.550	1080.00	77.11	4844.11	296.88	21.71	1584.00	.22	4188.47	.01	30.00
	321.550	1800.00	77.29	4898.10	297.82	21.89	1584.00	.37	2525.07	.02	30.00
	321.550	3000.00	77.76	5038.37	300.24	22.36	1584.00	.60	1529.17	.03	30.00
	321.550	5000.00	78.86	5372.02	305.93	23.46	1584.00	.93	934.92	.04	30.00
*	321.750	648.00	77.04	3634.54	269.46	17.84	1056.00	.18	6963.80	.01	30.00
*	321.750	1080.00	77.11	3652.79	269.54	17.91	1056.00	.30	4189.46	.01	30.00
*	321.750	1800.00	77.29	3702.07	269.76	18.09	1056.00	.49	2525.67	.02	30.00
*	321.750	3000.00	77.76	3829.56	270.33	18.56	1056.00	.78	1529.54	.04	30.00
*	321.750	5000.00	78.86	4129.76	271.67	19.66	1056.00	1.21	935.16	.05	30.00
	321.950	648.00	77.04	3247.85	277.79	17.04	1056.00	.20	6965.27	.01	30.00
	321.950	1080.00	77.11	3266.75	278.00	17.11	1056.00	.33	4190.35	.02	30.00
	321.950	1800.00	77.29	3317.83	278.56	17.29	1056.00	.54	2526.21	.03	30.00
	321.950	3000.00	77.77	3450.20	280.01	17.77	1056.00	.87	1529.88	.04	30.00
	321.950	5000.00	78.88	3763.29	283.42	18.88	1056.00	1.33	935.38	.06	30.00
*	322.400	648.00	77.04	2026.24	262.06	15.34	2376.00	.32	6967.33	.02	30.00
*	322.400	1080.00	77.11	2044.70	262.36	15.41	2376.00	.53	4191.60	.03	30.00
*	322.400	1800.00	77.31	2094.55	263.19	15.61	2376.00	.86	2526.98	.05	30.00

*	322.400	3000.00	77.80	2225.42	265.34	16.10	2376.00	1.35	1530.37	.08	30.00
*	322.400	5000.00	78.95	2535.32	270.37	17.25	2376.00	1.97	935.72	.11	30.00
*	322.600	648.00	77.04	4584.45	324.35	23.24	1056.00	.14	6969.41	.01	30.00
*	322.600	1080.00	77.12	4608.76	324.69	23.32	1056.00	.23	4192.85	.01	30.00
*	322.600	1800.00	77.32	4674.12	325.61	23.52	1056.00	.39	2527.74	.02	30.00
*	322.600	3000.00	77.84	4841.73	327.95	24.04	1056.00	.62	1530.84	.03	30.00
*	322.600	5000.00	79.03	5233.79	333.37	25.23	1056.00	.96	936.02	.04	30.00
*	322.800	648.00	77.04	2318.90	266.03	13.14	1056.00	.28	6970.46	.02	30.00
*	322.800	1080.00	77.12	2339.67	266.39	13.22	1056.00	.46	4193.48	.03	30.00
*	322.800	1800.00	77.32	2393.91	267.31	13.42	1056.00	.75	2528.13	.04	30.00
*	322.800	3000.00	77.84	2530.89	269.63	13.94	1056.00	1.19	1531.09	.07	30.00
*	322.800	5000.00	79.02	2854.14	275.01	15.12	1056.00	1.75	936.19	.10	30.00
	323.240	648.00	77.05	2046.15	242.47	12.25	2323.00	.32	6972.49	.02	30.00
	323.240	1080.00	77.13	2065.40	243.70	12.33	2323.00	.52	4194.72	.03	30.00
	323.240	1800.00	77.35	2119.35	247.09	12.55	2323.00	.85	2528.89	.05	30.00
	323.240	3000.00	77.91	2261.51	253.30	13.11	2323.00	1.33	1531.57	.08	30.00
	323.240	5000.00	79.16	2581.46	257.64	14.36	2323.00	1.94	936.52	.11	30.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	323.430	648.00	77.05	2287.97	217.58	13.15	1004.00	.28	6973.48	.02	30.00
	323.430	1080.00	77.14	2306.82	217.92	13.24	1004.00	.47	4195.31	.03	30.00
	323.430	1800.00	77.37	2357.21	218.84	13.47	1004.00	.76	2529.26	.04	30.00
	323.430	3000.00	77.95	2484.44	221.14	14.05	1004.00	1.21	1531.81	.06	30.00
	323.430	5000.00	79.23	2771.31	226.25	15.33	1004.00	1.80	936.68	.09	30.00
	323.620	648.00	77.05	2196.85	232.12	12.75	1003.00	.29	6974.42	.02	30.00
	323.620	1080.00	77.14	2217.79	232.96	12.84	1003.00	.49	4195.88	.03	30.00
	323.620	1800.00	77.38	2273.75	234.31	13.08	1003.00	.79	2529.61	.04	30.00
	323.620	3000.00	77.97	2414.62	237.22	13.67	1003.00	1.24	1532.03	.07	30.00
	323.620	5000.00	79.28	2729.80	243.04	14.98	1003.00	1.83	936.83	.10	30.00
*	323.810	648.00	77.05	3095.84	239.31	17.15	1003.00	.21	6975.75	.01	30.00
*	323.810	1080.00	77.15	3117.91	239.71	17.25	1003.00	.35	4196.69	.02	30.00
*	323.810	1800.00	77.39	3176.72	240.77	17.49	1003.00	.57	2530.10	.03	30.00
*	323.810	3000.00	78.00	3324.19	243.42	18.10	1003.00	.90	1532.34	.04	30.00
*	323.810	5000.00	79.34	3652.93	249.22	19.44	1003.00	1.37	937.03	.06	30.00
	324.000	648.00	77.05	2700.47	273.92	14.45	1003.00	.24	6976.91	.01	30.00
	324.000	1080.00	77.15	2726.33	274.34	14.55	1003.00	.40	4197.39	.02	30.00
	324.000	1800.00	77.40	2795.18	275.46	14.80	1003.00	.64	2530.53	.04	30.00
	324.000	3000.00	78.01	2967.38	278.24	15.41	1003.00	1.01	1532.61	.05	30.00
	324.000	5000.00	79.36	3347.15	284.27	16.76	1003.00	1.49	937.22	.08	30.00
	324.380	648.00	77.06	2909.73	252.29	15.66	2006.00	.22	6979.42	.01	30.00
	324.380	1080.00	77.15	2934.08	253.05	15.75	2006.00	.37	4198.91	.02	30.00
	324.380	1800.00	77.41	2999.03	255.07	16.01	2006.00	.60	2531.46	.03	30.00

	324.380	3000.00	78.05	3162.27	260.08	16.65	2006.00	.95	1533.20	.05	30.00
	324.380	5000.00	79.43	3528.51	270.99	18.03	2006.00	1.42	937.61	.07	30.00
*	324.760	648.00	77.06	4028.57	276.80	20.06	2006.00	.16	6982.88	.01	30.00
*	324.760	1080.00	77.16	4056.30	277.07	20.16	2006.00	.27	4201.00	.01	30.00
*	324.760	1800.00	77.42	4129.85	277.77	20.42	2006.00	.44	2532.74	.02	30.00
*	324.760	3000.00	78.07	4312.18	279.51	21.07	2006.00	.70	1534.00	.03	30.00
*	324.760	5000.00	79.48	4708.14	283.24	22.48	2006.00	1.06	938.14	.05	30.00
*	324.950	648.00	77.06	3170.55	273.77	17.56	1003.00	.20	6984.24	.01	30.00
*	324.950	1080.00	77.16	3198.01	274.90	17.66	1003.00	.34	4201.82	.02	30.00
*	324.950	1800.00	77.42	3271.31	277.88	17.92	1003.00	.55	2533.25	.03	30.00
*	324.950	3000.00	78.07	3455.86	285.25	18.57	1003.00	.87	1534.32	.04	30.00
*	324.950	5000.00	79.49	3871.90	301.22	19.99	1003.00	1.29	938.35	.06	30.00
	325.140	648.00	77.06	2494.38	253.10	13.96	1003.00	.26	6985.32	.01	30.00
	325.140	1080.00	77.16	2519.82	253.41	14.06	1003.00	.43	4202.47	.02	30.00
	325.140	1800.00	77.43	2587.37	254.23	14.33	1003.00	.70	2533.65	.04	30.00
	325.140	3000.00	78.08	2755.20	256.26	14.98	1003.00	1.09	1534.58	.06	30.00
	325.140	5000.00	79.51	3122.99	260.65	16.41	1003.00	1.60	938.53	.08	30.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	325.330	648.00	77.06	2311.10	279.00	13.36	1003.00	.28	6986.31	.02	30.00
	325.330	1080.00	77.16	2339.68	279.21	13.46	1003.00	.46	4203.08	.03	30.00
	325.330	1800.00	77.44	2415.41	279.75	13.74	1003.00	.75	2534.02	.04	30.00
	325.330	3000.00	78.11	2602.67	281.09	14.41	1003.00	1.15	1534.82	.07	30.00
	325.330	5000.00	79.55	3010.72	283.98	15.85	1003.00	1.66	938.70	.09	30.00
*	325.520	648.00	77.06	4650.32	351.05	20.46	1003.00	.14	6988.31	.01	30.00
*	325.520	1080.00	77.17	4687.54	351.41	20.57	1003.00	.23	4204.29	.01	30.00
*	325.520	1800.00	77.45	4785.92	352.37	20.85	1003.00	.38	2534.76	.02	30.00
*	325.520	3000.00	78.13	5028.06	354.71	21.53	1003.00	.60	1535.29	.03	30.00
*	325.520	5000.00	79.60	5550.81	360.28	23.00	1003.00	.90	939.01	.04	30.00
	325.710	648.00	77.06	3675.45	264.95	20.46	1003.00	.18	6989.89	.01	30.00
	325.710	1080.00	77.17	3704.00	265.47	20.57	1003.00	.29	4205.24	.01	30.00
	325.710	1800.00	77.45	3779.43	266.10	20.85	1003.00	.48	2535.35	.02	30.00
	325.710	3000.00	78.14	3963.06	267.61	21.54	1003.00	.76	1535.66	.03	30.00
	325.710	5000.00	79.61	4357.27	270.84	23.01	1003.00	1.15	939.25	.05	30.00
	325.900	648.00	77.06	3321.38	282.83	17.76	1003.00	.20	6991.32	.01	30.00
	325.900	1080.00	77.17	3351.59	283.47	17.87	1003.00	.32	4206.11	.02	30.00
	325.900	1800.00	77.45	3431.65	285.16	18.15	1003.00	.52	2535.88	.03	30.00
	325.900	3000.00	78.14	3629.96	289.30	18.84	1003.00	.83	1535.99	.04	30.00
	325.900	5000.00	79.62	4063.43	298.15	20.32	1003.00	1.23	939.47	.06	30.00
	326.080	648.00	77.06	3305.80	252.14	19.36	950.00	.20	6992.66	.01	30.00
	326.080	1080.00	77.17	3332.92	252.53	19.47	950.00	.32	4206.92	.02	30.00
	326.080	1800.00	77.45	3404.71	253.58	19.75	950.00	.53	2536.38	.03	30.00

	326.080	3000.00	78.15	3581.86	256.13	20.45	950.00	.84	1536.31	.04	30.00
	326.080	5000.00	79.64	3966.06	261.59	21.94	950.00	1.26	939.68	.06	30.00
*	326.460	648.00	77.06	2068.85	228.26	13.26	2006.00	.31	6994.44	.02	30.00
*	326.460	1080.00	77.17	2093.78	229.04	13.37	2006.00	.52	4208.00	.03	30.00
*	326.460	1800.00	77.46	2159.92	231.11	13.66	2006.00	.83	2537.05	.05	30.00
*	326.460	3000.00	78.17	2324.28	236.18	14.37	2006.00	1.29	1536.74	.07	30.00
*	326.460	5000.00	79.68	2688.19	247.03	15.88	2006.00	1.86	939.98	.10	30.00
*	326.650	648.00	77.06	1024.19	168.35	9.66	1003.00	.63	6994.88	.05	30.00
*	326.650	1080.00	77.18	1043.03	169.22	9.78	1003.00	1.04	4208.27	.07	30.00
*	326.650	1800.00	77.47	1093.08	171.51	10.07	1003.00	1.65	2537.22	.11	30.00
*	326.650	3000.00	78.19	1218.03	177.11	10.79	1003.00	2.46	1536.85	.17	30.00
*	326.650	5000.00	79.71	1497.30	191.50	12.31	1003.00	3.34	940.07	.21	30.00
*	327.030	648.00	77.08	2149.12	234.47	13.08	2006.00	.30	6996.73	.02	30.00
*	327.030	1080.00	77.21	2180.59	235.04	13.21	2006.00	.50	4209.40	.03	30.00
*	327.030	1800.00	77.56	2262.10	236.50	13.56	2006.00	.80	2537.92	.05	30.00
*	327.030	3000.00	78.38	2456.97	239.96	14.38	2006.00	1.22	1537.31	.07	30.00
*	327.030	5000.00	80.04	2863.10	247.01	16.04	2006.00	1.75	940.39	.09	30.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	327.220	648.00	77.08	2394.49	239.17	16.18	1003.00	.27	6997.76	.02	30.00
	327.220	1080.00	77.22	2428.45	249.15	16.32	1003.00	.44	4210.02	.03	30.00
	327.220	1800.00	77.58	2518.13	255.64	16.68	1003.00	.71	2538.30	.04	30.00
	327.220	3000.00	78.41	2732.87	256.70	17.51	1003.00	1.10	1537.56	.06	30.00
	327.220	5000.00	80.10	3166.40	258.82	19.20	1003.00	1.58	940.56	.08	30.00
	327.410	648.00	77.08	2838.02	275.76	12.98	1003.00	.23	6998.98	.01	30.00
	327.410	1080.00	77.22	2876.90	276.73	13.12	1003.00	.38	4210.76	.02	30.00
	327.410	1800.00	77.59	2977.84	279.22	13.49	1003.00	.60	2538.77	.03	30.00
	327.410	3000.00	78.44	3216.62	282.41	14.34	1003.00	.93	1537.86	.05	30.00
	327.410	5000.00	80.14	3700.80	287.99	16.04	1003.00	1.35	940.77	.07	30.00
	327.600	648.00	77.08	2769.15	257.59	15.18	1003.00	.23	7000.17	.01	30.00
	327.600	1080.00	77.23	2805.98	258.25	15.33	1003.00	.38	4211.49	.02	30.00
	327.600	1800.00	77.59	2901.49	260.50	15.69	1003.00	.62	2539.22	.03	30.00
	327.600	3000.00	78.45	3127.94	266.07	16.55	1003.00	.96	1538.15	.05	30.00
	327.600	5000.00	80.16	3593.46	277.17	18.26	1003.00	1.39	940.97	.07	30.00
*	327.770	648.00	77.08	3966.12	258.99	22.08	897.00	.16	7001.70	.01	30.00
*	327.770	1080.00	77.23	4003.44	259.82	22.23	897.00	.27	4212.41	.01	30.00
*	327.770	1800.00	77.60	4100.16	261.94	22.60	897.00	.44	2539.78	.02	30.00
*	327.770	3000.00	78.47	4328.97	266.90	23.47	897.00	.69	1538.51	.03	30.00
*	327.770	5000.00	80.19	4797.20	276.77	25.19	897.00	1.04	941.21	.04	30.00
*	328.300	648.00	77.08	3291.36	285.16	14.78	2798.00	.20	7005.64	.01	30.00
	328.300	1080.00	77.23	3333.28	285.64	14.93	2798.00	.32	4214.81	.02	30.00
	328.300	1800.00	77.61	3441.63	287.15	15.31	2798.00	.52	2541.27	.03	30.00

	328.300	3000.00	78.48	3694.94	290.81	16.18	2798.00	.81	1539.47	.04	30.00
	328.300	5000.00	80.22	4209.24	298.10	17.92	2798.00	1.19	941.86	.06	30.00
	328.490	648.00	77.09	3915.02	295.36	19.09	1003.00	.17	7007.33	.01	30.00
	328.490	1080.00	77.23	3958.33	295.86	19.23	1003.00	.27	4215.83	.01	30.00
	328.490	1800.00	77.61	4070.22	297.14	19.61	1003.00	.44	2541.90	.02	30.00
	328.490	3000.00	78.49	4333.08	300.13	20.49	1003.00	.69	1539.87	.03	30.00
	328.490	5000.00	80.24	4863.33	306.06	22.24	1003.00	1.03	942.13	.05	30.00
*	329.400	648.00	77.09	4845.46	280.93	24.09	4808.00	.13	7017.31	.01	30.00
*	329.400	1080.00	77.24	4887.89	281.83	24.24	4808.00	.22	4221.88	.01	30.00
*	329.400	1800.00	77.62	4997.67	284.12	24.62	4808.00	.36	2545.61	.02	30.00
*	329.400	3000.00	78.51	5254.28	289.43	25.51	4808.00	.57	1542.21	.02	30.00
	329.400	5000.00	80.29	5775.15	299.91	27.29	4808.00	.87	943.68	.03	30.00
*	329.600	648.00	77.09	3623.45	297.36	17.59	1056.00	.18	7018.95	.01	30.00
*	329.600	1080.00	77.24	3668.08	299.47	17.74	1056.00	.29	4222.87	.01	30.00
*	329.600	1800.00	77.62	3784.44	304.89	18.12	1056.00	.48	2546.22	.02	30.00
*	329.600	3000.00	78.52	4063.61	317.54	19.02	1056.00	.74	1542.61	.04	30.00
*	329.600	5000.00	80.29	4650.58	339.91	20.79	1056.00	1.08	943.95	.05	30.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
	329.800	648.00	77.09	3303.90	270.47	20.09	1056.00	.20	7020.45	.01	30.00
	329.800	1080.00	77.24	3344.51	271.55	20.24	1056.00	.32	4223.78	.02	30.00
	329.800	1800.00	77.62	3467.45	328.44	20.62	1056.00	.52	2546.79	.03	30.00
	329.800	3000.00	78.52	3764.51	332.44	21.52	1056.00	.80	1542.98	.04	30.00
	329.800	5000.00	80.31	4364.44	340.38	23.31	1056.00	1.15	944.20	.06	30.00
	330.400	648.00	77.09	2681.12	246.12	14.09	3168.00	.24	7024.09	.01	30.00
	330.400	1080.00	77.24	2718.80	246.65	14.24	3168.00	.40	4226.00	.02	30.00
	330.400	1800.00	77.64	2816.52	247.79	14.64	3168.00	.64	2548.17	.03	30.00
	330.400	3000.00	78.56	3045.56	252.62	15.56	3168.00	.99	1543.87	.05	30.00
	330.400	5000.00	80.37	3515.95	268.02	17.37	3168.00	1.42	944.82	.07	30.00
	330.610	648.00	77.09	2992.29	284.61	13.29	1108.00	.22	7025.51	.01	30.00
	330.610	1080.00	77.25	3036.48	285.17	13.45	1108.00	.36	4226.86	.02	30.00
	330.610	1800.00	77.65	3151.29	286.58	13.85	1108.00	.57	2548.70	.03	30.00
	330.610	3000.00	78.58	3418.45	289.85	14.78	1108.00	.88	1544.22	.05	30.00
	330.610	5000.00	80.41	3952.92	296.27	16.61	1108.00	1.26	945.07	.06	30.00
*	330.820	648.00	77.09	2201.27	250.23	14.09	1108.00	.29	7026.56	.02	30.00
*	330.820	1080.00	77.25	2240.75	251.42	14.25	1108.00	.48	4227.50	.03	30.00
*	330.820	1800.00	77.65	2343.42	253.34	14.65	1108.00	.77	2549.11	.04	30.00
*	330.820	3000.00	78.59	2582.40	256.58	15.59	1108.00	1.16	1544.49	.06	30.00
	330.820	5000.00	80.43	3060.44	262.92	17.43	1108.00	1.63	945.26	.08	30.00
	331.400	648.00	77.10	2219.58	237.87	13.20	3061.00	.29	7029.47	.02	30.00
	331.400	1080.00	77.26	2258.79	239.45	13.36	3061.00	.48	4229.28	.03	30.00
	331.400	1800.00	77.69	2360.72	242.91	13.79	3061.00	.76	2550.22	.04	30.00

	331.400	3000.00	78.67	2600.31	248.42	14.77	3061.00	1.15	1545.22	.06	30.00
	331.400	5000.00	80.55	3081.50	259.15	16.65	3061.00	1.62	945.78	.08	30.00
*	331.600	648.00	77.10	3241.15	279.83	20.60	1056.00	.20	7030.94	.01	30.00
*	331.600	1080.00	77.27	3288.86	281.58	20.77	1056.00	.33	4230.17	.02	30.00
*	331.600	1800.00	77.70	3412.43	286.06	21.20	1056.00	.53	2550.78	.03	30.00
*	331.600	3000.00	78.69	3700.33	296.24	22.19	1056.00	.81	1545.58	.04	30.00
*	331.600	5000.00	80.60	4282.75	314.89	24.10	1056.00	1.17	946.03	.06	30.00
	332.000	648.00	77.10	2597.05	239.46	14.40	2112.00	.25	7033.29	.01	30.00
	332.000	1080.00	77.27	2638.83	240.73	14.57	2112.00	.41	4231.60	.02	30.00
	332.000	1800.00	77.71	2746.72	243.96	15.01	2112.00	.66	2551.67	.03	30.00
	332.000	3000.00	78.72	2994.75	251.23	16.02	2112.00	1.00	1546.17	.05	30.00
	332.000	5000.00	80.64	3490.38	265.16	17.94	2112.00	1.43	946.44	.07	30.00
	332.400	648.00	77.10	2495.04	245.98	14.90	2112.00	.26	7035.55	.01	30.00
	332.400	1080.00	77.28	2538.30	247.57	15.08	2112.00	.43	4232.98	.02	30.00
	332.400	1800.00	77.73	2650.21	251.63	15.53	2112.00	.68	2552.54	.04	30.00
	332.400	3000.00	78.75	2910.59	260.84	16.55	2112.00	1.03	1546.74	.05	30.00
	332.400	5000.00	80.70	3437.83	278.57	18.50	2112.00	1.45	946.84	.07	30.00

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SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
332.600	648.00	77.10	2528.00	222.29	16.30	1056.00	.26	7036.69	.01	30.00
332.600	1080.00	77.28	2567.77	223.70	16.48	1056.00	.42	4233.68	.02	30.00
332.600	1800.00	77.74	2670.45	227.28	16.94	1056.00	.67	2552.97	.03	30.00
332.600	3000.00	78.77	2908.61	235.39	17.97	1056.00	1.03	1547.02	.05	30.00
332.600	5000.00	80.73	3386.80	250.72	19.93	1056.00	1.48	947.04	.07	30.00
332.800	648.00	77.11	3178.41	272.02	18.01	1056.00	.20	7038.13	.01	30.00
332.800	1080.00	77.29	3227.56	272.91	18.19	1056.00	.33	4234.56	.02	30.00
332.800	1800.00	77.75	3353.70	275.17	18.65	1056.00	.54	2553.52	.03	30.00
332.800	3000.00	78.79	3642.22	280.29	19.69	1056.00	.82	1547.38	.04	30.00
332.800	5000.00	80.77	4207.93	290.96	21.67	1056.00	1.19	947.29	.06	30.00
333.000	648.00	77.11	2531.49	237.49	16.71	1056.00	.26	7039.28	.01	30.00
333.000	1080.00	77.29	2574.85	238.97	16.89	1056.00	.42	4235.26	.02	30.00
333.000	1800.00	77.75	2686.67	242.76	17.35	1056.00	.67	2553.96	.04	30.00
333.000	3000.00	78.80	2945.32	251.29	18.40	1056.00	1.02	1547.67	.05	30.00
333.000	5000.00	80.79	3462.59	267.53	20.39	1056.00	1.44	947.49	.07	30.00
333.200	648.00	77.11	2850.99	278.22	14.11	1056.00	.23	7040.57	.01	30.00
333.200	1080.00	77.29	2902.02	279.05	14.29	1056.00	.37	4236.04	.02	30.00
333.200	1800.00	77.76	3032.79	281.18	14.76	1056.00	.59	2554.45	.03	30.00
333.200	3000.00	78.82	3335.53	303.46	15.82	1056.00	.90	1547.99	.06	30.00
333.200	5000.00	80.82	4023.33	378.96	17.82	1056.00	1.24	947.73	.07	30.00
333.800	648.00	77.11	3108.83	272.49	15.21	3168.00	.21	7044.79	.01	30.00
333.800	1080.00	77.30	3160.49	273.37	15.40	3168.00	.34	4238.62	.02	30.00
333.800	1800.00	77.78	3292.58	275.51	15.88	3168.00	.55	2556.06	.03	30.00

	333.800	3000.00	78.85	3592.50	279.25	16.95	3168.00	.84	1549.05	.04	30.00
	333.800	5000.00	80.89	4169.68	286.71	18.99	3168.00	1.20	948.46	.06	30.00
*	334.200	648.00	77.11	2122.17	235.65	14.91	2112.00	.31	7046.71	.02	30.00
*	334.200	1080.00	77.30	2167.41	237.75	15.10	2112.00	.50	4239.80	.03	30.00
*	334.200	1800.00	77.79	2283.91	241.66	15.59	2112.00	.79	2556.80	.05	30.00
*	334.200	3000.00	78.88	2550.79	248.24	16.68	2112.00	1.18	1549.55	.06	30.00
*	334.200	5000.00	80.93	3073.61	260.30	18.73	2112.00	1.63	948.82	.08	30.00
	334.400	648.00	77.11	2356.80	278.63	12.81	1056.00	.27	7047.78	.02	30.00
	334.400	1080.00	77.31	2410.94	280.66	13.01	1056.00	.45	4240.45	.03	30.00
	334.400	1800.00	77.80	2550.00	285.81	13.50	1056.00	.71	2557.22	.04	30.00
	334.400	3000.00	78.91	2871.77	297.37	14.61	1056.00	1.04	1549.83	.06	30.00
	334.400	5000.00	80.98	3505.18	312.73	16.68	1056.00	1.43	949.03	.08	30.00
	334.800	648.00	77.12	2428.39	255.53	14.12	2112.00	.27	7049.98	.02	30.00
	334.800	1080.00	77.32	2480.08	257.29	14.32	2112.00	.44	4241.80	.02	30.00
	334.800	1800.00	77.83	2611.88	260.76	14.83	2112.00	.69	2558.07	.04	30.00
	334.800	3000.00	78.95	2910.51	268.46	15.95	2112.00	1.03	1550.40	.06	30.00
	334.800	5000.00	81.05	3488.88	282.77	18.05	2112.00	1.43	949.44	.07	30.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
*	335.000	648.00	77.12	3910.01	226.87	24.12	1056.00	.17	7051.75	.01	30.00
*	335.000	1080.00	77.32	3956.25	227.73	24.32	1056.00	.27	4242.87	.01	30.00
*	335.000	1800.00	77.83	4073.59	229.92	24.83	1056.00	.44	2558.73	.02	30.00
*	335.000	3000.00	78.97	4337.39	234.76	25.97	1056.00	.69	1550.82	.03	30.00
*	335.000	5000.00	81.08	4842.75	243.76	28.08	1056.00	1.03	949.72	.04	30.00
*	335.580	648.00	77.12	3005.23	233.92	19.22	3062.00	.22	7055.69	.01	30.00
*	335.580	1080.00	77.32	3053.72	234.42	19.42	3062.00	.35	4245.28	.02	30.00
*	335.580	1800.00	77.84	3176.29	235.69	19.94	3062.00	.57	2560.24	.03	30.00
*	335.580	3000.00	78.98	3447.34	239.03	21.08	3062.00	.87	1551.80	.04	30.00
*	335.580	5000.00	81.11	3969.93	255.79	23.21	3062.00	1.26	950.40	.06	30.00
	335.730	648.00	77.12	2642.52	260.26	14.12	792.00	.25	7056.59	.01	30.00
	335.730	1080.00	77.33	2695.93	260.65	14.33	792.00	.40	4245.83	.02	30.00
	335.730	1800.00	77.84	2831.00	261.64	14.84	792.00	.64	2560.58	.03	30.00
	335.730	3000.00	78.99	3132.13	263.84	15.99	792.00	.96	1552.03	.05	30.00
	335.730	5000.00	81.13	3700.16	269.36	18.13	792.00	1.35	950.56	.06	30.00
*	336.200	648.00	77.12	3232.32	210.23	23.42	2481.00	.20	7060.03	.01	30.00
*	336.200	1080.00	77.33	3276.32	210.95	23.63	2481.00	.33	4247.92	.01	30.00
*	336.200	1800.00	77.86	3387.78	212.78	24.16	2481.00	.53	2561.88	.02	30.00
*	336.200	3000.00	79.02	3637.41	216.82	25.32	2481.00	.82	1552.86	.04	30.00
	336.200	5000.00	81.18	4113.36	224.31	27.48	2481.00	1.22	951.13	.05	30.00
	337.000	648.00	77.13	3298.31	343.40	16.03	4224.00	.20	7066.00	.01	30.00
	337.000	1080.00	77.34	3371.98	344.65	16.24	4224.00	.32	4251.58	.02	30.00
	337.000	1800.00	77.87	3557.81	346.20	16.77	4224.00	.51	2564.20	.03	30.00

	337.000	3000.00	79.05	3970.00	349.61	17.95	4224.00	.76	1554.42	.04	30.00
	337.000	5000.00	81.24	4742.44	361.24	20.14	4224.00	1.05	952.24	.05	30.00
*	337.200	648.00	77.13	1603.10	170.15	14.53	1056.00	.40	7066.72	.02	30.00
*	337.200	1080.00	77.34	1639.63	171.58	14.74	1056.00	.66	4252.03	.04	30.00
*	337.200	1800.00	77.87	1732.82	175.15	15.27	1056.00	1.04	2564.48	.06	30.00
*	337.200	3000.00	79.05	1945.07	183.04	16.45	1056.00	1.54	1554.61	.08	30.00
*	337.200	5000.00	81.23	2358.24	197.49	18.63	1056.00	2.12	952.38	.11	30.00
*	337.400	648.00	77.13	2341.68	181.03	21.13	1056.00	.28	7067.78	.01	30.00
*	337.400	1080.00	77.35	2380.98	181.95	21.35	1056.00	.45	4252.67	.02	30.00
*	337.400	1800.00	77.90	2480.43	184.27	21.90	1056.00	.73	2564.88	.03	30.00
*	337.400	3000.00	79.10	2704.92	189.79	23.10	1056.00	1.11	1554.87	.05	30.00
*	337.400	5000.00	81.31	3148.92	209.29	25.31	1056.00	1.59	952.56	.07	30.00
*	337.500	648.00	77.13	1525.50	206.39	15.33	528.00	.42	7068.13	.03	30.00
*	337.500	1080.00	77.35	1571.05	207.04	15.55	528.00	.69	4252.89	.04	30.00
*	337.500	1800.00	77.90	1685.82	208.67	16.10	528.00	1.07	2565.02	.07	30.00
*	337.500	3000.00	79.10	1939.05	212.26	17.30	528.00	1.55	1554.97	.09	30.00
*	337.500	5000.00	81.32	2430.91	232.30	19.52	528.00	2.06	952.63	.11	30.00

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	SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH
*	337.700	648.00	77.13	2132.82	203.53	14.23	1056.00	.30	7069.09	.02	30.00
*	337.700	1080.00	77.36	2178.47	204.88	14.46	1056.00	.50	4253.48	.03	30.00
*	337.700	1800.00	77.92	2293.88	208.23	15.02	1056.00	.78	2565.40	.04	30.00
*	337.700	3000.00	79.15	2554.07	215.61	16.25	1056.00	1.17	1555.21	.06	30.00
*	337.700	5000.00	81.40	3055.90	229.16	18.50	1056.00	1.64	952.81	.08	30.00
*	337.900	648.00	77.13	4039.34	270.03	23.23	1056.00	.16	7070.92	.01	30.00
*	337.900	1080.00	77.36	4101.90	271.57	23.46	1056.00	.26	4254.59	.01	30.00
*	337.900	1800.00	77.93	4259.10	275.39	24.03	1056.00	.42	2566.09	.02	30.00
*	337.900	3000.00	79.17	4605.50	283.64	25.27	1056.00	.65	1555.67	.03	30.00
*	337.900	5000.00	81.45	5266.46	298.11	27.55	1056.00	.95	953.12	.04	30.00
	338.100	648.00	77.14	3809.98	263.83	22.14	1056.00	.17	7072.65	.01	30.00
	338.100	1080.00	77.36	3870.73	264.56	22.36	1056.00	.28	4255.64	.01	30.00
	338.100	1800.00	77.93	4023.01	266.36	22.93	1056.00	.45	2566.75	.02	30.00
	338.100	3000.00	79.18	4358.12	270.29	24.18	1056.00	.69	1556.09	.03	30.00
	338.100	5000.00	81.45	4980.42	277.45	26.45	1056.00	1.00	953.41	.04	30.00
*	338.300	648.00	77.14	1806.08	269.75	17.24	1056.00	.36	7073.46	.02	30.00
*	338.300	1080.00	77.36	1868.00	270.36	17.46	1056.00	.58	4256.15	.04	30.00
*	338.300	1800.00	77.93	2023.17	271.88	18.03	1056.00	.89	2567.07	.06	30.00
*	338.300	3000.00	79.18	2364.24	275.20	19.28	1056.00	1.27	1556.32	.08	30.00
*	338.300	5000.00	81.45	2998.08	281.25	21.55	1056.00	1.67	953.59	.09	30.00
	338.400	648.00	77.14	1978.78	252.00	12.04	528.00	.33	7073.91	.02	30.00
	338.400	1080.00	77.37	2036.94	253.10	12.27	528.00	.53	4256.43	.03	30.00
	338.400	1800.00	77.95	2183.05	255.85	12.85	528.00	.82	2567.25	.05	30.00

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      338.400   3000.00     79.20   2506.33    261.83     14.10    528.00      1.20   1556.45       .07     30.00
      338.400   5000.00     81.48   3117.06    272.76     16.38    528.00      1.60    953.68       .08     30.00

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  SUMMARY OF ERRORS AND SPECIAL NOTES


 WARNING SECNO=       .200  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=       .200  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=       .200  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=       .200  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=       .200  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

 WARNING SECNO=      5.600  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=      5.600  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

 WARNING SECNO=      6.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=      6.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=      6.000  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

 WARNING SECNO=      6.800  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=      6.800  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=      6.800  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=      6.800  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

 WARNING SECNO=      7.100  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=      7.100  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=      7.100  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=      7.100  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=      7.100  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

 WARNING SECNO=      8.910  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=      8.910  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=      8.910  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=      8.910  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=      8.910  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

 WARNING SECNO=     12.420  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     12.420  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     12.420  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     12.420  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     12.420  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

 WARNING SECNO=     15.380  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     15.380  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     15.380  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     15.380  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

 NOTE    SECNO=     25.120  PROFILE=  1  WSEL BASED ON X5 CARD
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 WARNING SECNO=     25.120  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 NOTE    SECNO=     25.120  PROFILE=  2  WSEL BASED ON X5 CARD
 WARNING SECNO=     25.120  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 NOTE    SECNO=     25.120  PROFILE=  3  WSEL BASED ON X5 CARD
 WARNING SECNO=     25.120  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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 NOTE    SECNO=     25.120  PROFILE=  4  WSEL BASED ON X5 CARD
 WARNING SECNO=     25.120  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 NOTE    SECNO=     25.120  PROFILE=  5  WSEL BASED ON X5 CARD

 WARNING SECNO=     25.520  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     25.520  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     25.520  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     25.520  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     25.520  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

 WARNING SECNO=     25.720  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     25.720  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     25.720  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     25.720  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     25.720  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

 WARNING SECNO=     25.920  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     25.920  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     25.920  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     25.920  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     25.920  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

 WARNING SECNO=     26.130  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     26.130  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     26.130  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     26.130  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     26.130  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

 WARNING SECNO=     29.700  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     29.700  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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 WARNING SECNO=     29.700  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     29.700  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

 WARNING SECNO=     41.700  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     41.700  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     41.700  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     41.700  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     41.700  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

 WARNING SECNO=     41.900  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     41.900  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     41.900  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     41.900  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     41.900  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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 WARNING SECNO=     42.100  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     42.100  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     42.100  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     42.100  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=     42.100  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
1
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 WARNING SECNO=    108.900  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=    108.900  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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 WARNING SECNO=    108.900  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

 WARNING SECNO=    110.700  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=    110.700  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=    110.700  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=    110.700  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=    110.700  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

 WARNING SECNO=    111.300  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=    111.300  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=    111.300  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=    111.300  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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 WARNING SECNO=    111.300  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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 WARNING SECNO=    112.900  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=    112.900  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

 WARNING SECNO=    113.300  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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 WARNING SECNO=    113.300  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=    113.300  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

 WARNING SECNO=    114.500  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=    114.500  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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 WARNING SECNO=    114.500  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=    114.500  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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 WARNING SECNO=    114.700  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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 WARNING SECNO=    114.900  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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 WARNING SECNO=    114.900  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=    114.900  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

 WARNING SECNO=    115.900  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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 WARNING SECNO=    115.900  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=    115.900  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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 WARNING SECNO=    116.700  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=    116.700  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

 NOTE    SECNO=    117.380  PROFILE=  1  WSEL BASED ON X5 CARD
 WARNING SECNO=    117.380  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 NOTE    SECNO=    117.380  PROFILE=  2  WSEL BASED ON X5 CARD
 WARNING SECNO=    117.380  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 NOTE    SECNO=    117.380  PROFILE=  3  WSEL BASED ON X5 CARD
 WARNING SECNO=    117.380  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 NOTE    SECNO=    117.380  PROFILE=  4  WSEL BASED ON X5 CARD
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 WARNING SECNO=    117.380  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 NOTE    SECNO=    117.380  PROFILE=  5  WSEL BASED ON X5 CARD
 WARNING SECNO=    117.380  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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 WARNING SECNO=    121.200  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=    121.200  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=    121.200  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

 WARNING SECNO=    122.600  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=    122.600  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=    122.600  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=    122.600  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=    122.600  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

 WARNING SECNO=    122.800  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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 WARNING SECNO=    122.800  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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 WARNING SECNO=    122.800  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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 WARNING SECNO=    123.000  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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 WARNING SECNO=    123.960  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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 WARNING SECNO=    129.880  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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 WARNING SECNO=    129.880  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=    129.880  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

 WARNING SECNO=    131.200  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=    131.200  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=    131.200  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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 WARNING SECNO=    131.200  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

 WARNING SECNO=    132.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=    132.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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 WARNING SECNO=    132.000  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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 WARNING SECNO=    135.090  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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 WARNING SECNO=    149.120  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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 WARNING SECNO=    154.240  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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 WARNING SECNO=    154.460  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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 WARNING SECNO=    156.400  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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 WARNING SECNO=    156.400  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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 WARNING SECNO=    156.550  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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 WARNING SECNO=    178.200  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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 WARNING SECNO=    190.600  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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 WARNING SECNO=    193.230  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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 WARNING SECNO=    194.130  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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 WARNING SECNO=    196.150  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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 WARNING SECNO=    226.400  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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 WARNING SECNO=    227.100  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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 WARNING SECNO=    227.100  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 NOTE    SECNO=    227.100  PROFILE=  3  WSEL BASED ON X5 CARD
 WARNING SECNO=    227.100  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 NOTE    SECNO=    227.100  PROFILE=  4  WSEL BASED ON X5 CARD
 WARNING SECNO=    227.100  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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 WARNING SECNO=    251.200  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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 WARNING SECNO=    251.400  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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 WARNING SECNO=    252.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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 WARNING SECNO=    252.000  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=    252.000  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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 WARNING SECNO=    265.400  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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 WARNING SECNO=    266.800  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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 WARNING SECNO=    268.800  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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 WARNING SECNO=    283.800  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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 NOTE    SECNO=    286.100  PROFILE=  1  WSEL BASED ON X5 CARD
 WARNING SECNO=    286.100  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 NOTE    SECNO=    286.100  PROFILE=  2  WSEL BASED ON X5 CARD
 WARNING SECNO=    286.100  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 NOTE    SECNO=    286.100  PROFILE=  3  WSEL BASED ON X5 CARD
 WARNING SECNO=    286.100  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 NOTE    SECNO=    286.100  PROFILE=  4  WSEL BASED ON X5 CARD
 WARNING SECNO=    286.100  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 NOTE    SECNO=    286.100  PROFILE=  5  WSEL BASED ON X5 CARD
 WARNING SECNO=    286.100  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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 WARNING SECNO=    292.600  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

 WARNING SECNO=    298.800  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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 WARNING SECNO=    300.200  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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 WARNING SECNO=    300.400  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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 WARNING SECNO=    306.640  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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 WARNING SECNO=    306.980  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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 WARNING SECNO=    306.980  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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 WARNING SECNO=    307.200  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=    307.200  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=    307.200  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO=    307.200  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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 WARNING SECNO=    307.430  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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 WARNING SECNO=    307.430  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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 WARNING SECNO=    317.550  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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 WARNING SECNO=    334.200  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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EXAMPLE DATA WORK-UP FILE

REACH 1

USACOE 1979-1980 HEC-2 MODEL OF THE OUACHITA RIVER

LDEQ MODEL REACH 1

HEC-2 OUTPUT DATA											CALCULATED DATA		
SECNO	Q	CWSEL	AREA	TOPWID	DEPTH	XLCH	VCH	TIME	FRCH	K*XNCH	LA	AVG D	W*L*A
200.44	648	52.02	5834.4	375.66	20.92	1003	0.11	5368.45	0	25	5,851,903	15.53	2,198,325,956
200.25	648	52.02	5454.34	375.98	21.72	1003	0.12	5365.95	0.01	25	5,470,703	14.51	2,056,874,921
200.06	648	52.02	9395.95	436.56	28.02	3115	0.07	5363.6	0	25	29,268,384	21.52	12,777,405,828
199.47	648	52.02	5684.49	366.41	19.92	1003	0.11	5351.05	0.01	25	5,701,543	15.51	2,089,102,543
199.28	648	52.02	5931.12	388.91	17.92	2059	0.11	5348.61	0	25	12,212,176	15.25	4,749,437,399
198.89	648	52.02	6307.87	390.7	19.92	1056	0.1	5343.38	0	25	6,661,111	16.15	2,602,495,958
198.69	648	52.02	5520.22	391.85	21.12	1056	0.12	5340.52	0.01	25	5,829,352	14.09	2,284,231,707
198.49	648	52.01	5360.14	386.31	22.91	1003	0.12	5338.02	0.01	25	5,376,220	13.88	2,076,887,710
198.3	648	52.01	5500.92	400.26	20.91	1056	0.12	5335.72	0.01	25	5,808,972	13.74	2,325,098,941
198.1	648	52.01	5961.31	428.8	17.01	264	0.11	5333.23	0.01	25	1,573,786	13.90	674,839,368
198.05	648	52.01	5669.79	407.48	16.21	739	0.11	5332.55	0.01	25	4,189,975	13.91	1,707,330,936
197.91	648	52.01	5819.22	437.12	15.11	1056	0.11	5330.75	0.01	25	6,145,096	13.31	2,686,144,503
197.71	648	52.01	5716.21	420.79	22.11	1056	0.11	5328.12	0.01	25	6,036,318	13.58	2,540,022,150
197.51	648	52.01	6944.59	397.66	26.11	1003	0.09	5325.53	0	25	6,965,424	17.46	2,769,870,416
197.32	648	52.01	6549.98	352.93	26.91	1056	0.1	5322.55	0	25	6,916,779	18.56	2,441,138,770
197.12	648	52.01	6666.61	384.1	22.91	1003	0.1	5319.58	0	25	6,686,610	17.36	2,568,326,836
196.93	648	52.01	5409.71	383.68	21.11	1056	0.12	5316.72	0.01	25	5,712,654	14.10	2,191,830,995
196.73	648	52.01	5424.89	431.88	18.21	1003	0.12	5314.27	0.01	25	5,441,165	12.56	2,349,930,198
196.54	648	52.01	5543.79	402.43	18.01	1056	0.12	5311.94	0.01	25	5,854,242	13.78	2,355,922,705
196.34	648	52.01	5191.4	303.15	27.01	1003	0.12	5309.43	0.01	25	5,206,974	17.12	1,578,494,229
196.15	648	52.01	4816.49	367.3	23.11	1056	0.13	5307.19	0.01	25	5,086,213	13.11	1,868,166,197
195.95	648	52.01	6886.63	364.13	24.01	2059	0.09	5305.01	0	25	14,179,571	18.91	5,163,207,250
195.56	648	52.01	7043.28	418.68	24.11	1056	0.09	5298.94	0	25	7,437,704	16.82	3,114,017,777
195.36	648	52.01	5614.43	356.82	24.11	2059	0.12	5295.75	0.01	25	11,560,111	15.73	4,124,878,939
200.44	1080	52.04	5844.9	375.76	20.94	1003	0.18	3230.38	0.01	25	5,862,435	15.55	2,202,868,463
200.25	1080	52.04	5464.89	376.36	21.74	1003	0.2	3228.88	0.01	25	5,481,285	14.52	2,062,936,298
200.06	1080	52.04	9408.17	436.92	28.04	3115	0.11	3227.47	0	25	29,306,450	21.53	12,804,573,937
199.47	1080	52.04	5694.55	366.58	19.94	1003	0.19	3219.93	0.01	25	5,711,634	15.53	2,093,770,663
199.28	1080	52.04	5941.77	389.04	17.94	2059	0.18	3218.46	0.01	25	12,234,104	15.27	4,759,555,987
198.89	1080	52.04	6318.42	390.89	19.94	1056	0.17	3215.31	0.01	25	6,672,252	16.16	2,608,116,397
198.69	1080	52.04	5530.7	391.98	21.14	1056	0.2	3213.6	0.01	25	5,840,419	14.11	2,289,327,518
198.49	1080	52.04	5370.38	386.46	22.94	1003	0.2	3212.09	0.01	25	5,386,491	13.90	2,081,663,366
198.3	1080	52.04	5511.47	400.39	20.94	1056	0.2	3210.71	0.01	25	5,820,112	13.77	2,330,314,772
198.1	1080	52.04	5972.51	428.91	17.04	264	0.18	3209.21	0.01	25	1,576,743	13.92	676,280,686
198.05	1080	52.04	5680.41	407.64	16.24	739	0.19	3208.81	0.01	25	4,197,823	13.93	1,711,200,564
197.91	1080	52.04	5830.53	437.22	15.14	1056	0.19	3207.73	0.01	25	6,157,040	13.34	2,691,980,889
197.71	1080	52.04	5727.04	420.88	22.14	1056	0.19	3206.14	0.01	25	6,047,754	13.61	2,545,378,805
197.51	1080	52.04	6954.78	397.76	26.14	1003	0.16	3204.59	0.01	25	6,975,644	17.48	2,774,632,293
197.32	1080	52.04	6559	353.04	26.94	1056	0.16	3202.79	0.01	25	6,926,304	18.58	2,445,262,364
197.12	1080	52.04	6676.34	384.21	22.94	1003	0.16	3201.01	0.01	25	6,696,369	17.38	2,572,811,941
196.93	1080	52.04	5419.34	383.8	21.14	1056	0.2	3199.29	0.01	25	5,722,823	14.12	2,196,419,483
196.73	1080	52.04	5435.62	431.98	18.24	1003	0.2	3197.82	0.01	25	5,451,927	12.58	2,355,123,365
196.54	1080	52.04	5553.7	402.54	18.04	1056	0.19	3196.41	0.01	25	5,864,707	13.80	2,360,779,236
196.34	1080	52.04	5198.76	303.28	27.04	1003	0.21	3194.91	0.01	25	5,214,356	17.14	1,581,409,973
196.15	1080	52.04	4825.38	367.45	23.14	1056	0.22	3193.57	0.01	25	5,095,601	13.13	1,872,378,690
195.95	1080	52.04	6895.44	364.26	24.04	2059	0.16	3192.25	0.01	25	14,197,711	18.93	5,171,658,194
195.56	1080	52.04	7053.23	418.79	24.14	1056	0.15	3188.6	0.01	25	7,448,211	16.84	3,119,236,234
195.36	1080	52.04	5622.88	356.88	24.14	2059	0.19	3186.69	0.01	25	11,577,510	15.76	4,131,781,740
200.44	1800	52.12	5873.81	376.04	21.02	1003	0.31	1947.15	0.01	25	5,891,431	15.62	2,215,413,875
200.25	1800	52.12	5493.96	377.43	21.82	1003	0.33	1946.24	0.02	25	5,510,442	14.56	2,079,806,079
200.06	1800	52.12	9441.83	437.93	28.12	3115	0.19	1945.39	0.01	25	29,411,300	21.56	12,880,090,806
199.47	1800	52.12	5722.26	367.04	20.02	1003	0.31	1940.85	0.01	25	5,739,427	15.59	2,106,599,205
199.28	1800	52.12	5971.1	389.4	18.02	2059	0.3	1939.97	0.01	25	12,294,495	15.33	4,787,476,314
198.89	1800	52.12	6347.48	391.42	20.02	1056	0.28	1938.07	0.01	25	6,702,939	16.22	2,623,664,336
198.69	1800	52.12	5559.57	392.33	21.22	1056	0.32	1937.03	0.02	25	5,870,906	14.17	2,303,332,520
198.49	1800	52.11	5398.59	386.85	23.01	1003	0.33	1936.13	0.02	25	5,414,786	13.96	2,094,709,875
198.3	1800	52.11	5540.52	400.74	21.01	1056	0.32	1935.29	0.02	25	5,850,789	13.83	2,344,645,232
198.1	1800	52.11	6003.35	429.21	17.11	264	0.3	1934.39	0.01	25	1,584,884	13.99	680,248,233
198.05	1800	52.11	5709.68	408.08	16.31	739	0.32	1934.15	0.01	25	4,219,454	13.99	1,721,874,592
197.91	1800	52.11	5861.66	437.49	15.21	1056	0.31	1933.49	0.01	25	6,189,913	13.40	2,708,025,021
197.71	1800	52.11	5756.88	421.12	22.21	1056	0.31	1932.54	0.01	25	6,079,265	13.67	2,560,100,195
197.51	1800	52.11	6982.83	398.03	26.21	1003	0.26	1931.6	0.01	25	7,003,778	17.54	2,787,713,952
197.32	1800	52.11	6583.86	353.32	27.01	1056	0.27	1930.52	0.01	25	6,952,556	18.63	2,456,477,142
197.12	1800	52.11	6703.15	384.52	23.01	1003	0.27	1929.45	0.01	25	6,723,259	17.43	2,585,227,724
196.93	1800	52.11	5445.88	384.12	21.21	1056	0.33	1928.41	0.02	25	5,750,849	14.18	2,209,016,225
196.73	1800	52.11	5465.19	432.27	18.31	1003	0.33	1927.52	0.02	25	5,481,586	12.64	2,369,524,994
196.54	1800	52.11	5581.03	402.83	18.11	1056	0.32	1926.68	0.02	25	5,893,568	13.85	2,374,105,869
196.34	1800	52.11	5219.04	303.66	27.11	1003	0.34	1925.77	0.01	25	5,234,697	17.19	1,589,568,127
196.15	1800	52.1	4849.88	367.86	23.2	1056	0.37	1924.96	0.02	25	5,121,473	13.18	1,883,985,161
195.95	1800	52.1	6919.72	364.63	24.1	2059	0.26	1924.17	0.01	25	14,247,703	18.98	5,195,140,120
195.56	1800	52.1	7080.67	419.07	24.2	1056	0.25	1921.97	0.01	25	7,477,188	16.90	3,133,464,974
195.36	1800	52.1	5646.17	357.04	24.2	2059	0.32	1920.82	0.01	25	11,625,464	15.81	4,150,755,677
200.44	3000	52.33	5952.23	376.78	21.23	1003	0.5	1177.61	0.02	25	5,970,087	15.80	2,249,409,263
200.25	3000	52.33	5573.14	380.32	22.03	1003	0.54	1177.06	0.02	25	5,589,859	14.65	2,125,935,335
200.06	3000	52.33	9533.37	440.66	28.33	3115	0.31	1176.54	0.01	25	29,696,448	21.63	13,086,036,577
199.47	3000	52.32	5797.53	368.3	20.22	1003	0.52	1173.79	0.02	25	5,814,923	15.74	2,141,635,990
199.28	3000	52.32	6050.7	390.39	18.22	2059	0.5	1173.25	0.02	25	12,458,391	15.50	4,863,631,380
198.89	3000	52.32	6426.44	392.85	20.22	1056	0.47	1172.1	0.02	25	6,786,321	16.36	2,666,006,063
198.69	3000	52.32	5637.97	393.27	21.42	1056	0.53	1171.47	0.02	25	5,953,696	14.34	2,341,410,152
198.49	3000	52.31	5475.26	387.93	23.21	1003	0.55	1170.92	0.03	25	5,491,686	14.11	2,130,389,665
198.3	3000	52.31	5619.45	401.69	21.21	1056	0.53	1170.41	0.03	25	5,934,139	13.99	2,383,684,375
198.1	3000	52.31	6087.15	430.04	17.31	264	0.49	1169.86	0.02	25	1,607,008	14.15	691,077,548
198.05	3000	52.31	5789.29	409.3	16.51	739	0.52	1169.71	0.02	25	4,278,285	14.14	1,751,102,177
197.91	3000	52.31	5946.29	438.24	15.41	1056	0.5	1169.32	0.02	25	6,279,282	13.57	2,751,832,649
197.71	3000	52.3	5837.98	421.78	22.4	1056	0.51	1168.73	0.02	25	6,164,907	13.84	2,600,234,424
197.51	3000	52.3	7059.1	398.78	26.4	1003	0.42	1168.16	0.02	25	7,080,277	17.70	2,823,472,982
197.32	3000	52.3	6651.47	354.11	27.2	1056	0.45	1167.51	0.02	25	7,023,952	18.78	2,487,251,756
197.12	3000	52.3	6776.07	385.37	23.2	1003	0.44	1166.86	0.02	25	6,796,398	17.58	2,619,127,978
196.93	3000	52.3	5518.1	384.99	21.4	1056	0.54	1166.23	0.03	25	5,827,114	14.33	2,243,380,465
196.73	3000	52.29	5545.64	433.06	18.49	1003	0.54	1165.69	0.03	25	5,562,277	12.81	2,408,799,643
196.54	3000	52.29	5655.38	403.62	18.29	1056	0.53	1165.17	0.02	25	5,972,081	14.01	2,410,451,446
196.34	3000	52.29	5274.34	304.68	27.29	1003	0.57	1164.62	0.02	25	5,290,163	17.31	1,611,806,869
196.15	3000	52.28	4916.65	368.97	23.38	1056	0.61	1164.13	0.03	25	5,191,982	13.33	1,915,685,746
195.95	3000	52.28	6985.88	365.62	24.28	2059	0.43	1163.65	0.02	25	14,383,927	19.11	5,259,051,360
195.56	3000	52.28	7155.4	419.86	24.38	1056	0.42	1162.32	0.02	25	7,556,102	17.04	3,172,505,154
195.36	3000	52.28	5709.6	357.47	24.38	2059	0.53	1161.62	0.02	25	11,756,066	15.97	4,202,441,056
200.44	5000	52.87	6157.01	378.87	21.77	1003	0.81	716.98	0.04	25	6,175,481	16.25	2,339,704,498
200.25	5000	52.87	5781.07	384.75	22.57	1003	0.86	716.64	0.04	25	5,798,413	15.03	2,230,939,483
200.06	5000	52.87	9774.09	447.76	28.87	3115	0.51	716.32	0.02	25	30,446,290	21.83	13,632,630,967

USACOE 1979-1980 HEC-2 MODEL OF THE OUACHITA RIVER

LDEQ MODEL REACH 1

CALCULATED DATA	
LENGTH	5.08
Q	648
TOT VOL	169,612,875
AVG A	6,323.55
AVG W	375.53
SUM XLCH	5.08
TOT	72.70
VOL AVG W	396.01
AVG DEPTH	15.97
AVG VEL	0.102
LENGTH	5.08
Q	1080
TOT VOL	169,888,195
AVG A	6,333.82
AVG W	375.67
SUM XLCH	5.08
TOT	43.69
VOL AVG W	396.19
AVG DEPTH	15.99
AVG VEL	0.171
LENGTH	5.08
Q	1800
TOT VOL	170,646,689
AVG A	6,362.10
AVG W	376.06
SUM XLCH	5.08
TOT	26.33
VOL AVG W	396.67
AVG DEPTH	16.04
AVG VEL	0.283
LENGTH	5.08
Q	3000
TOT VOL	172,709,306
AVG A	6,439.00
AVG W	377.11
SUM XLCH	5.08
TOT	15.99
VOL AVG W	397.97
AVG DEPTH	16.18
AVG VEL	0.466
LENGTH	5.08
Q	5000
TOT VOL	178,129,441
AVG A	6,641.07
AVG W	379.73
SUM XLCH	5.08
TOT	9.89
VOL AVG W	401.28
AVG DEPTH	16.55
AVG VEL	0.753

COMPARISON OF HEC-2 MODEL TO AQUAETER MODEL				
Q	USACOE HEC-2			
	AVG D	VOL AVG D	AVG V	VOL AVG W
648	16.84	15.97	0.102	396.01
1080	16.86	15.99	0.171	396.19
1800	16.92	16.04	0.283	396.67
3000	17.07	16.18	0.466	397.97
5000	17.49	16.55	0.753	401.28

CALCULATIONS

	ROW	COLUMN	TO	ROW	COLUMN
Array =	5	1		124	11
Subarray 1 =	1	1		24	1
Subarray 2 =	25	1		48	1
Subarray 3 =	49	1		72	1
Subarray 4 =	73	1		96	1
Subarray 5 =	97	1		120	1

ARRAY	DATA POINTS	TOP L	BOTTOM L	ROW ABOVE BOTTOM OF SUBARRAY	TOP L MINUS BOTTOM L	TOP O
Sub 1	24	200.44	195.36	195.56	5.08	648
Sub 2	24	200.44	195.36	195.56	5.08	1080
Sub 3	24	200.44	195.36	195.56	5.08	1800
Sub 4	24	200.44	195.36	195.56	5.08	3000
Sub 5	24	200.44	195.36	195.56	5.08	5000

ARRAY	TOP W	BOTTOM W	AVG W	TOP XLCH	BOTTOM XLCH	SUM XLCH
Sub 1	E5	E27	375.53	G5	G27	5.08
Sub 2	E29	E51	375.67	G29	G51	5.08
Sub 3	E53	E75	376.06	G53	G75	5.08
Sub 4	E77	E99	377.11	G77	G99	5.08
Sub 5	E101	E123	379.73	G101	G123	5.08

ARRAY	TOP TIME	BOTTOM TIME	TOP TIME - BOTTOM TIME	TOP WLA	BOTTOM WLA	SUM WLA
Sub 1	5368.45	5295.75	72.7	N5	N27	67,169,103,292
Sub 2	3230.38	3186.69	43.69	N29	N51	67,307,680,118
Sub 3	1947.15	1920.82	26.33	N53	N75	67,690,210,573
Sub 4	1177.61	1161.62	15.99	N77	N99	68,733,918,997
Sub 5	716.98	707.09	9.89	N101	N123	71,479,504,779

ARRAY	TOP LA	BOTTOM LA	SUM LA
Sub 1	L5	L27	169,612,875
Sub 2	L29	L51	169,888,195
Sub 3	L53	L75	170,646,689
Sub 4	L77	L99	172,709,306
Sub 5	L101	L123	178,129,441

O		D		V
648		15.97		0.102
1080		15.99		0.171
1800		16.04		0.283
3000		16.18		0.466
5000		16.55		0.753

DISPERSION IN QUAL2E = 3.82KnVD5/6

Q	V	D	n	K	DL
648	0.102485	15.9679972	0.035	30	4
1080	0.170535	15.98689584	0.035	30	7
1800	0.282973	16.03881338	0.035	30	11
3000	0.465958	16.17941207	0.035	30	19
5000	0.753354	16.54978066	0.035	30	31

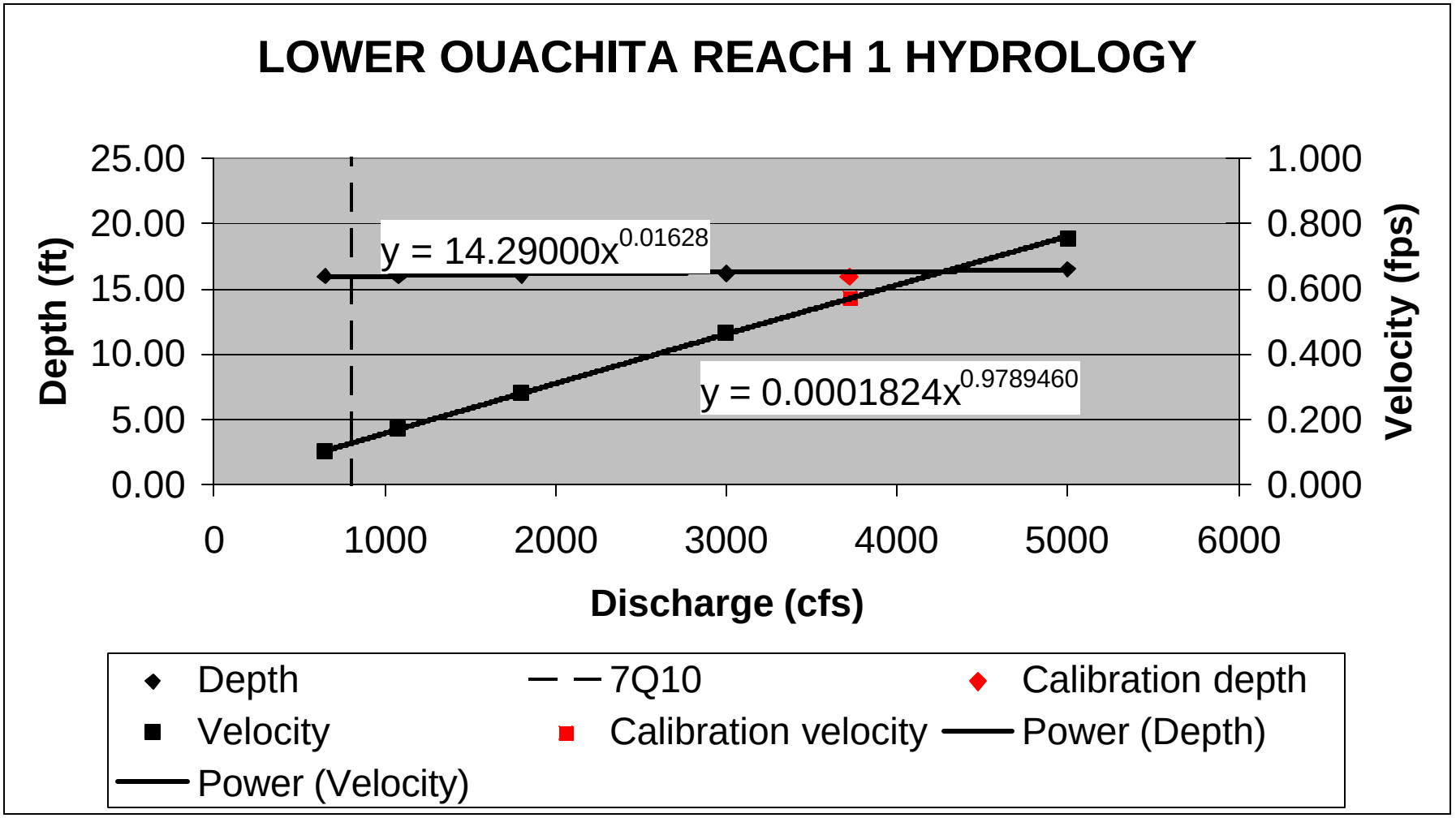
HYDROLOGIC COEFFICIENT PLOTS

LOWER OUACHITA HYDROLOGY BY REACH:

Reach Number: 1	Top ORM: 200.44	Bottom ORM: 195.36

Date	Discharge (cfs)	Depth (ft)	Velocity (fps)	7Q10 (cfs)	Depth scale
1979-1980	648	15.97	0.102	802	0
1979-1980	1080	15.99	0.171		
1979-1980	1800	16.04	0.283		
1979-1980	3000	16.18	0.466		
1979-1980	5000	16.55	0.753	802	25

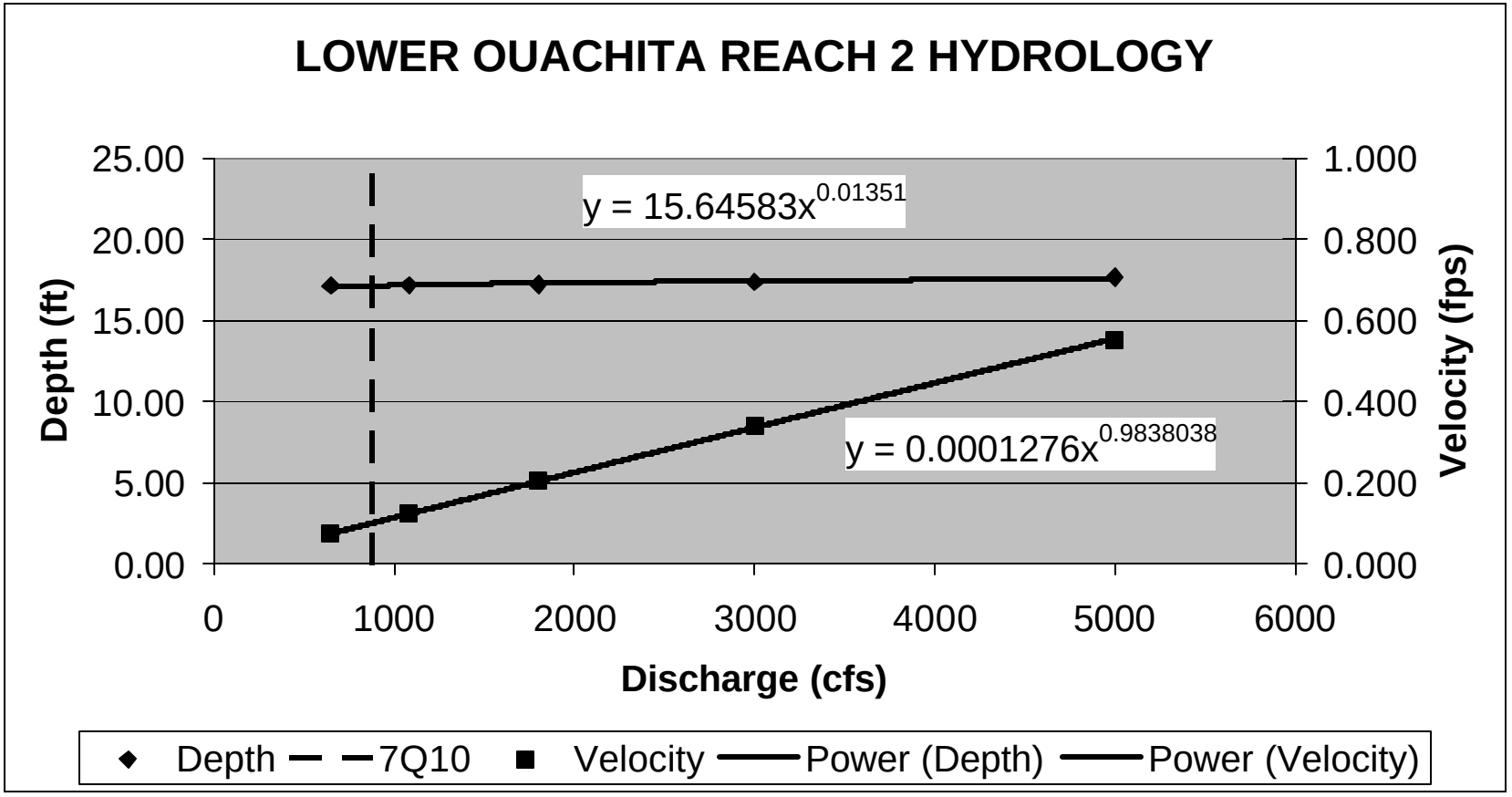
Calibration data	
Depth	15.97
Velocity	0.573
Flow	3721
Width	407
at ORM	200.025



LOWER OUACHITA HYDROLOGY BY REACH:

Reach Number: 2	Top ORM: 195.36	Bottom ORM: 190.41

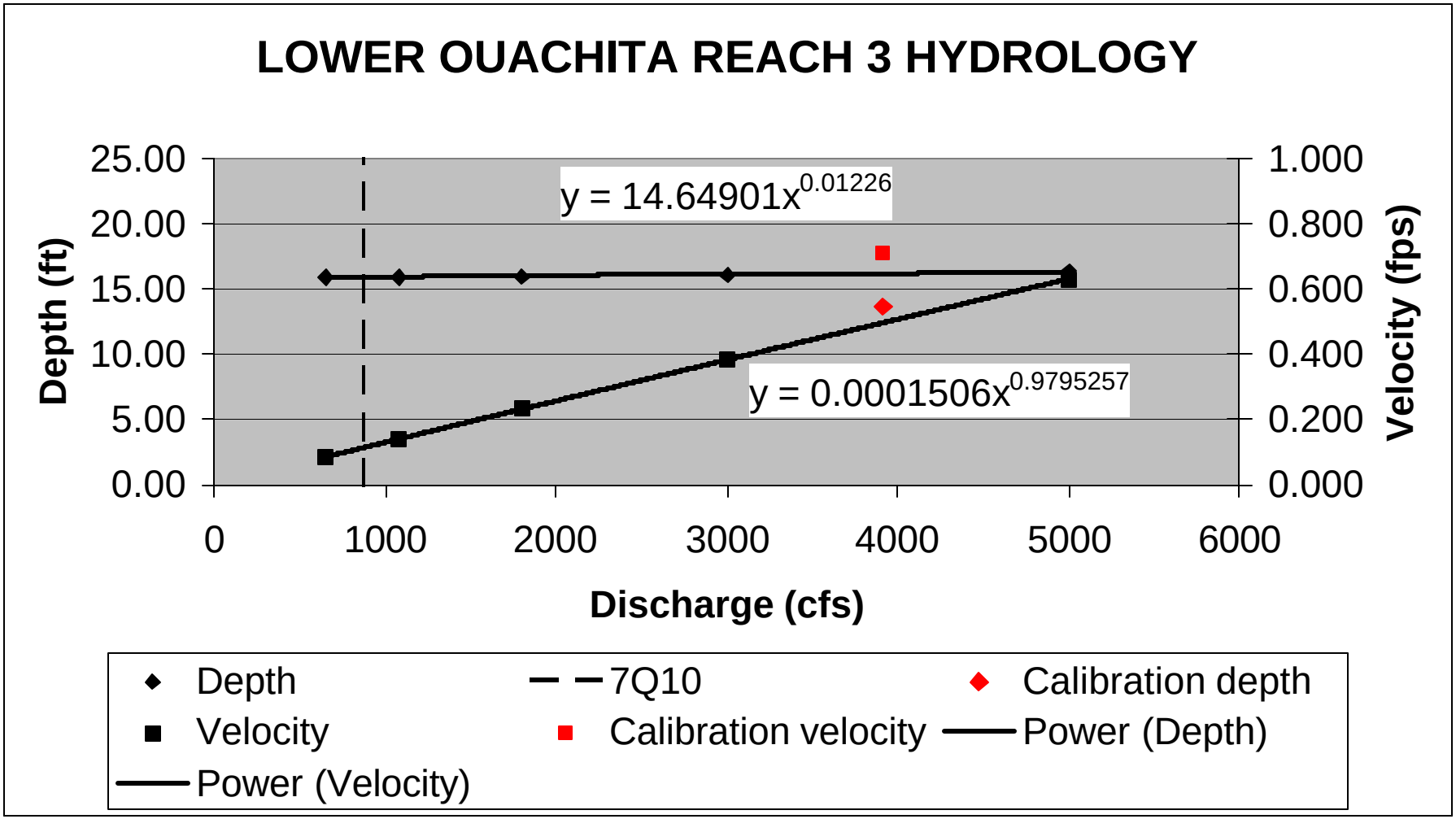
Date	Discharge (cfs)	Depth (ft)	Velocity (fps)	7Q10 (cfs)	Depth scale
1979-1980	648	17.16	0.074	874	0
1979-1980	1080	17.17	0.123		
1979-1980	1800	17.22	0.205		
1979-1980	3000	17.35	0.339		
1979-1980	5000	17.67	0.550	874	25



LOWER OUACHITA HYDROLOGY BY REACH:

Reach Number: 3	Top ORM: 190.41	Bottom ORM: 185.38

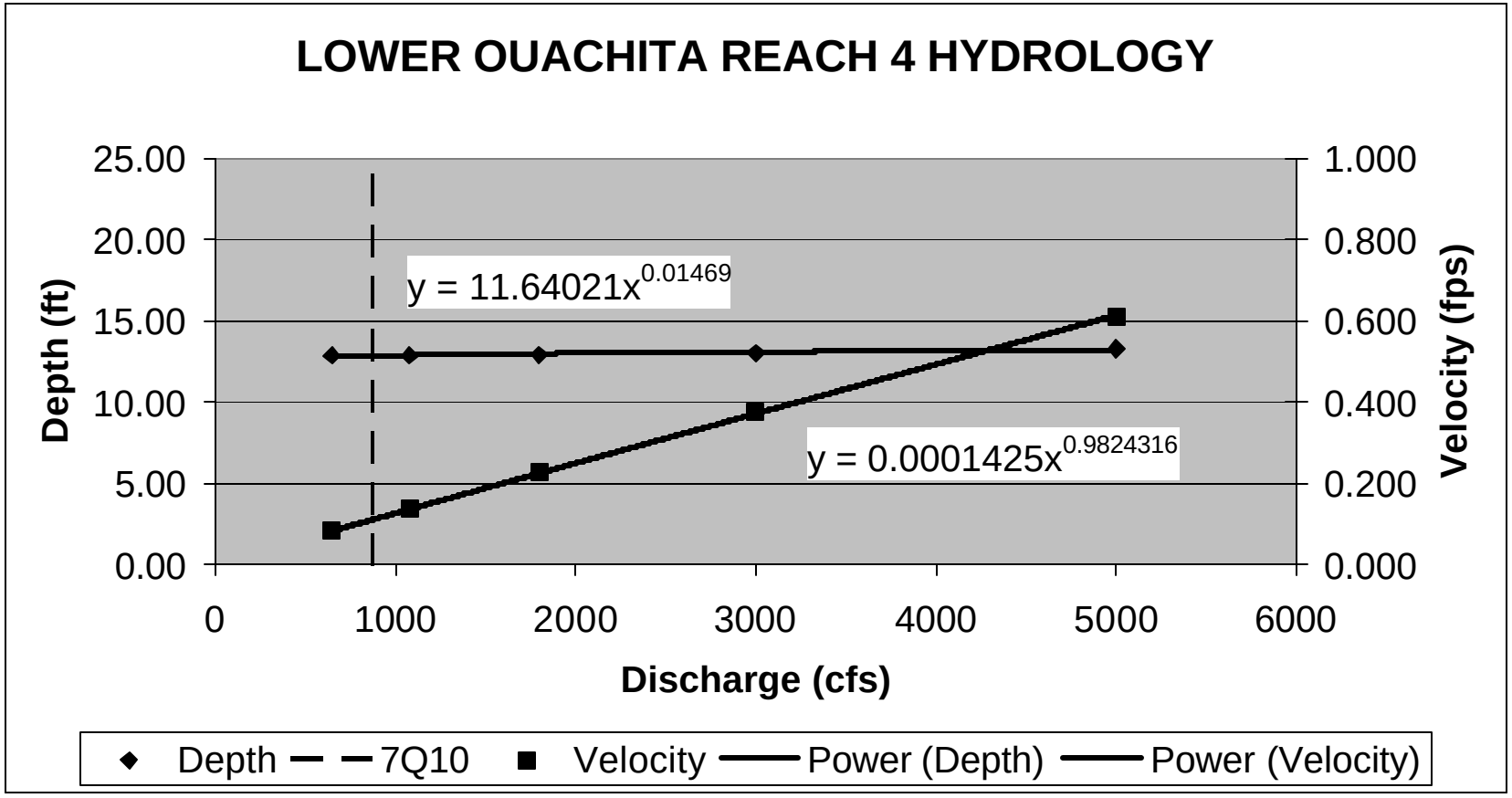
Date	Discharge (cfs)	Depth (ft)	Velocity (fps)	7Q10 (cfs)	Depth scale	Calibration data	
1979-1980	648	15.93	0.085	874	0	Depth	13.66
1979-1980	1080	15.94	0.141			Velocity	0.709
1979-1980	1800	15.98	0.234			Flow	3913
1979-1980	3000	16.09	0.386			Width	404
1979-1980	5000	16.36	0.627	874	25	at ORM	187.525



LOWER OUACHITA HYDROLOGY BY REACH:

Reach Number: 4	Top ORM: 185.38	Bottom ORM: 180.30

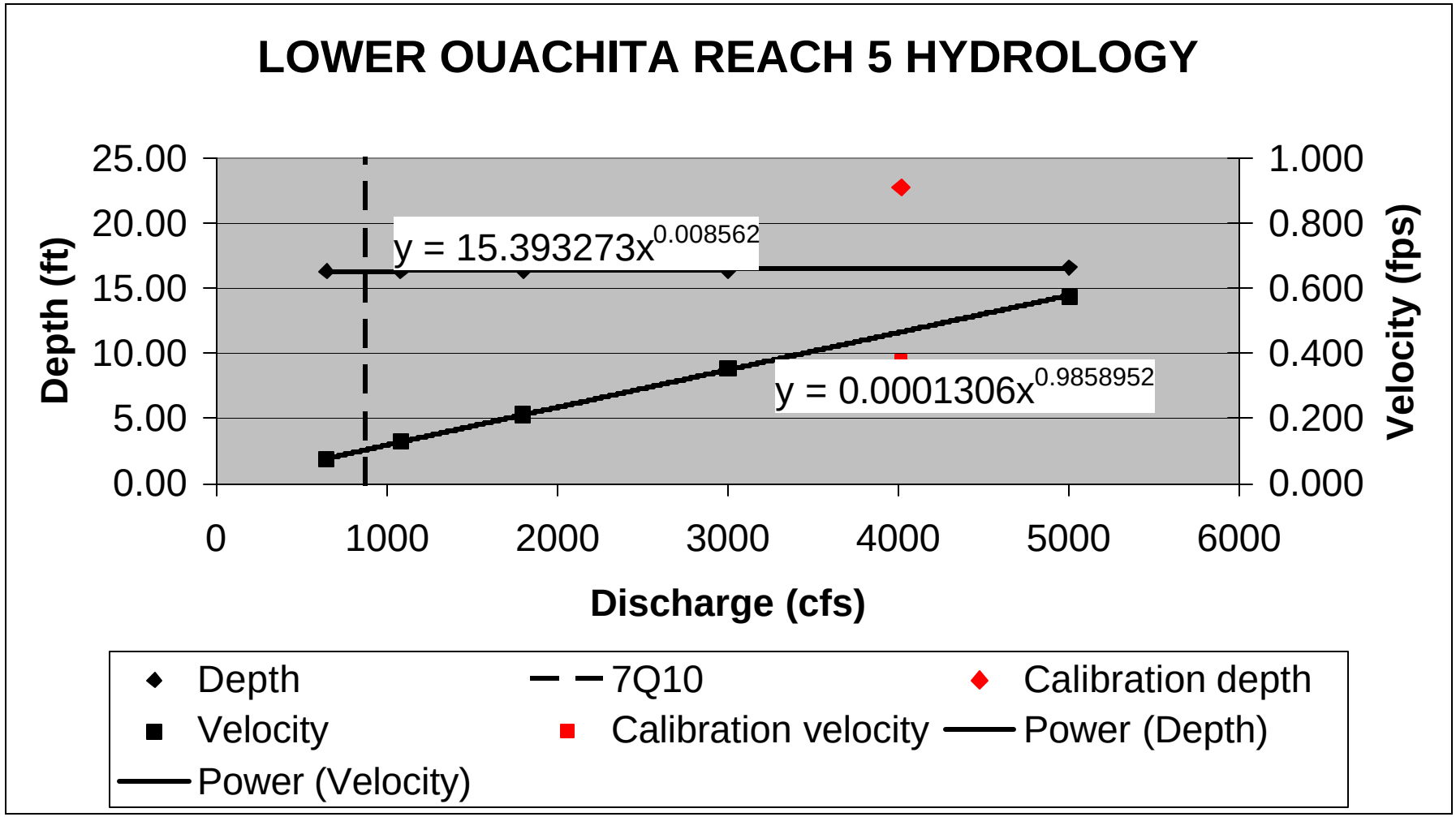
Date	Discharge (cfs)	Depth (ft)	Velocity (fps)	7Q10 (cfs)	Depth scale
1979-1980	648	12.87	0.082	874	0
1979-1980	1080	12.88	0.136		
1979-1980	1800	12.92	0.227		
1979-1980	3000	13.02	0.374		
1979-1980	5000	13.29	0.608	874	25



LOWER OUACHITA HYDROLOGY BY REACH:

Reach Number:	5	Top ORM:	180.30	Bottom ORM:	175.60

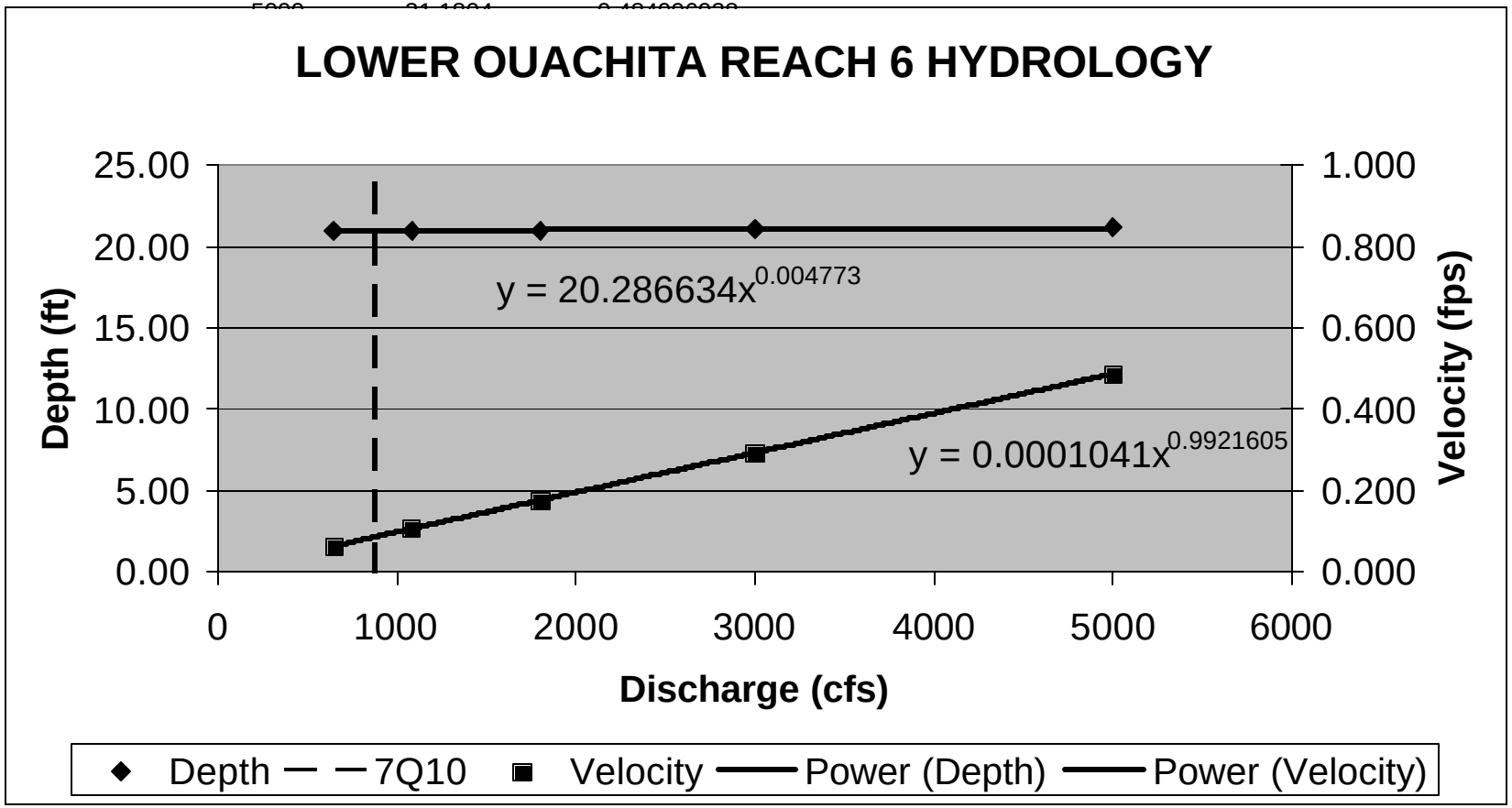
Date	Discharge (cfs)	Depth (ft)	Velocity (fps)	7Q10 (cfs)	Depth scale	Calibration data	
1979-1980	648	16.32	0.077	874	0	Depth	22.79
1979-1980	1080	16.33	0.128			Velocity	0.377
1979-1980	1800	16.36	0.212			Flow	4013
1979-1980	3000	16.43	0.352			Width	467
1979-1980	5000	16.63	0.576	874	25	at ORM	177.525



LOWER OUACHITA HYDROLOGY BY REACH:

Reach Number: 6	Top ORM: 175.60	Bottom ORM: 170.20

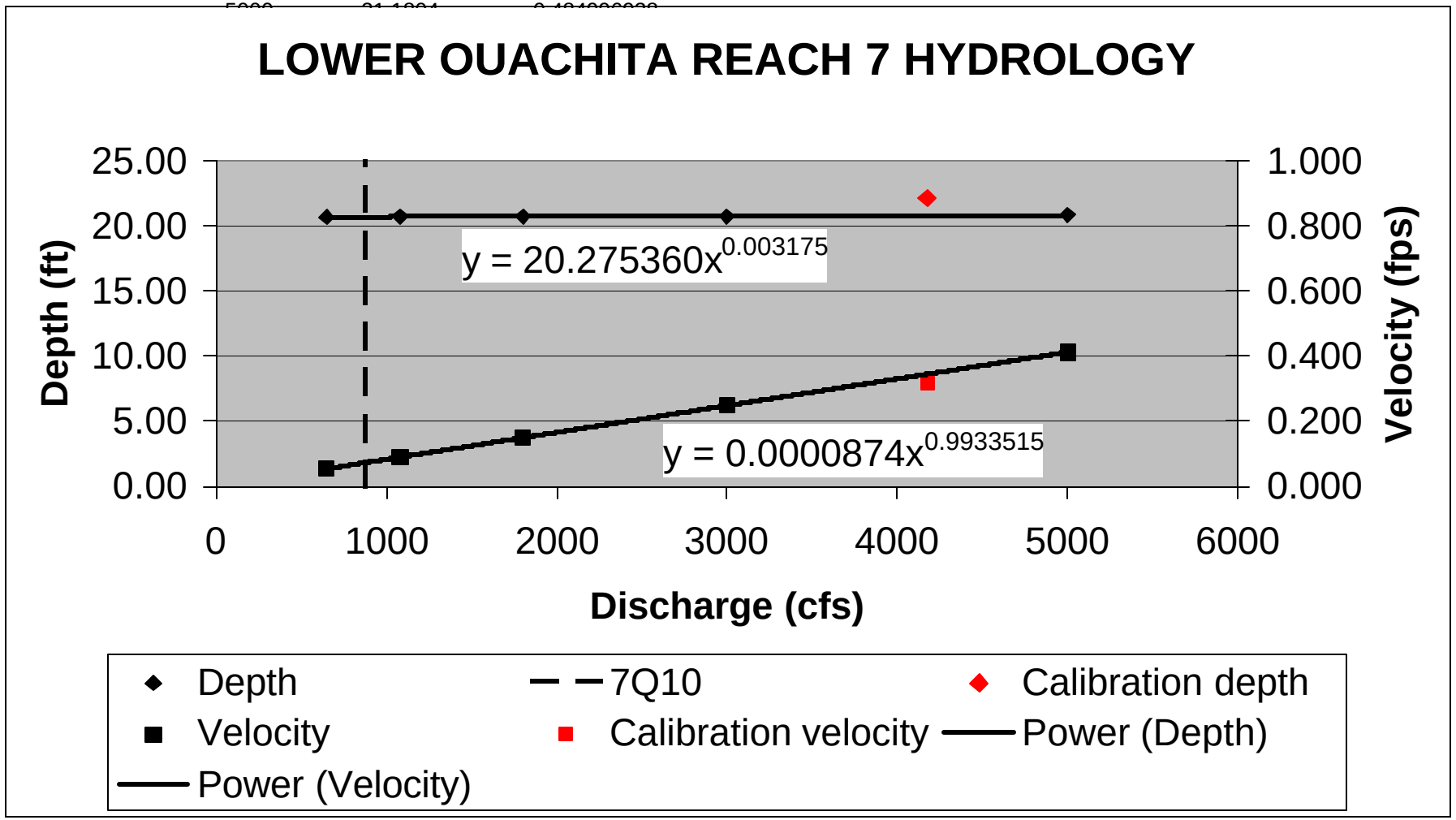
Date	Discharge (cfs)	Depth (ft)	Velocity (fps)	7Q10 (cfs)	Depth scale
1979-1980	648	20.96	0.064	874	0
1979-1980	1080	20.97	0.107		
1979-1980	1800	20.99	0.177		
1979-1980	3000	21.04	0.294		
1979-1980	5000	21.18	0.485	874	25



LOWER OUACHITA HYDROLOGY BY REACH:

Reach Number: 7	Top ORM: 170.20	Bottom ORM: 165.39

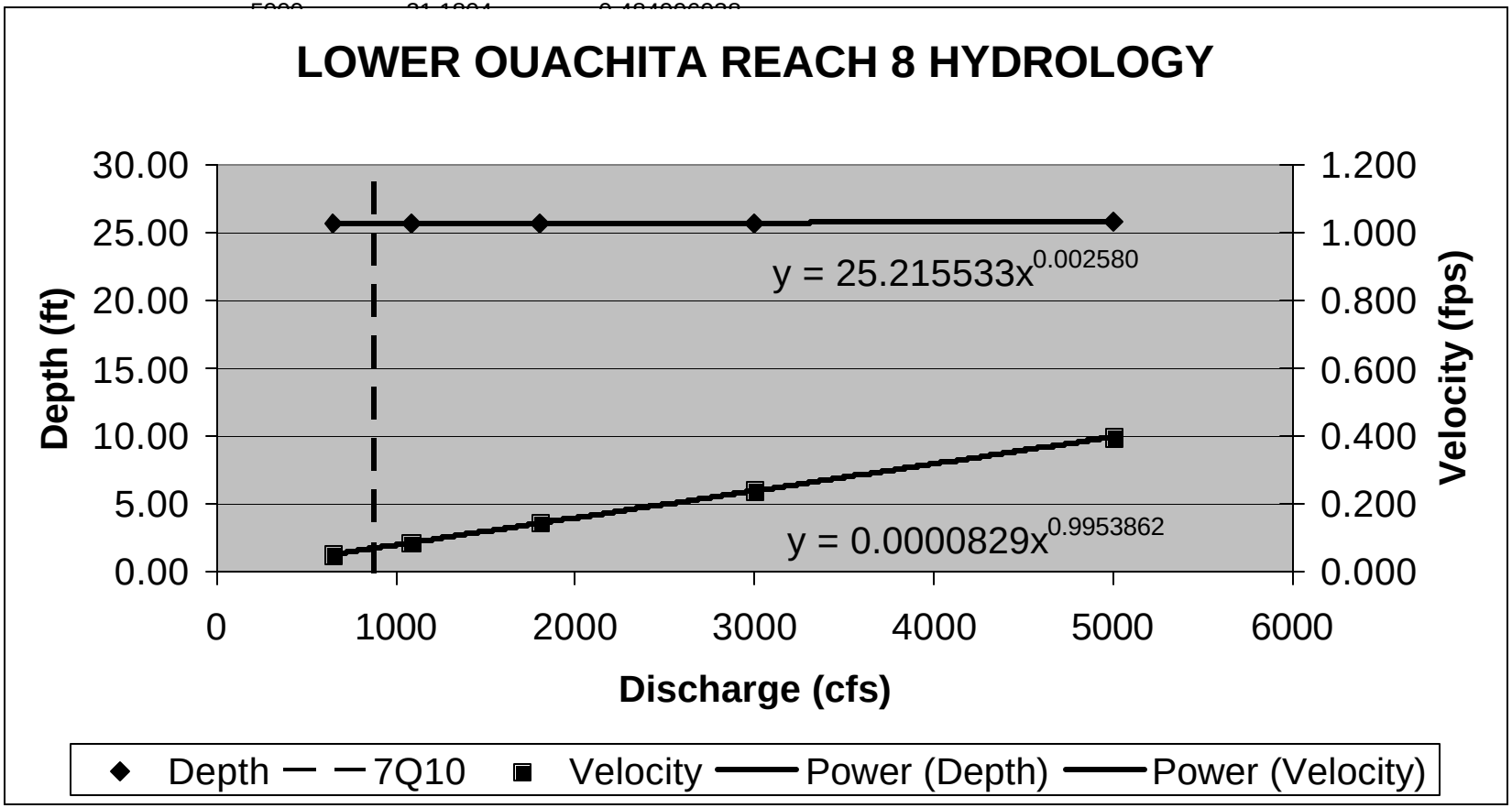
Date	Discharge (cfs)	Depth (ft)	Velocity (fps)	7Q10 (cfs)	Depth scale	Calibration data	
1979-1980	648	20.72	0.054	874	0	Depth	22.13
1979-1980	1080	20.73	0.090			Velocity	0.319
1979-1980	1800	20.73	0.150			Flow	4175
1979-1980	3000	20.76	0.249			Width	592
1979-1980	5000	20.88	0.411	874	25	at ORM	161.775



LOWER OUACHITA HYDROLOGY BY REACH:

Reach Number: 8	Top ORM: 165.39	Bottom ORM: 160.28

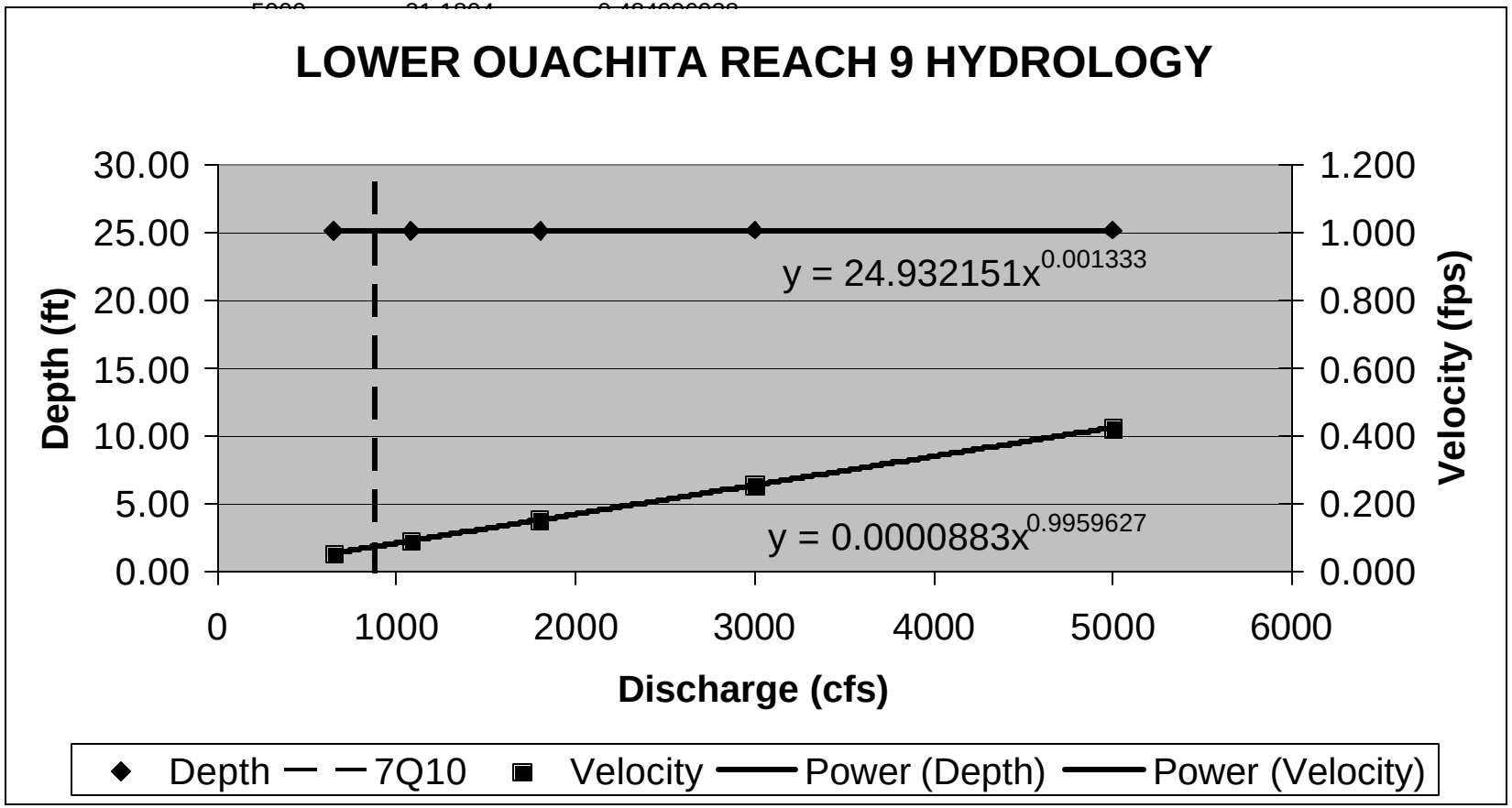
Date	Discharge (cfs)	Depth (ft)	Velocity (fps)	7Q10 (cfs)	Depth scale
1979-1980	648	25.66	0.052	874	0
1979-1980	1080	25.67	0.087		
1979-1980	1800	25.68	0.144		
1979-1980	3000	25.72	0.240		
1979-1980	5000	25.81	0.398	874	30



LOWER OUACHITA HYDROLOGY BY REACH:

Reach Number: 9	Top ORM: 160.28	Bottom ORM: 155.38

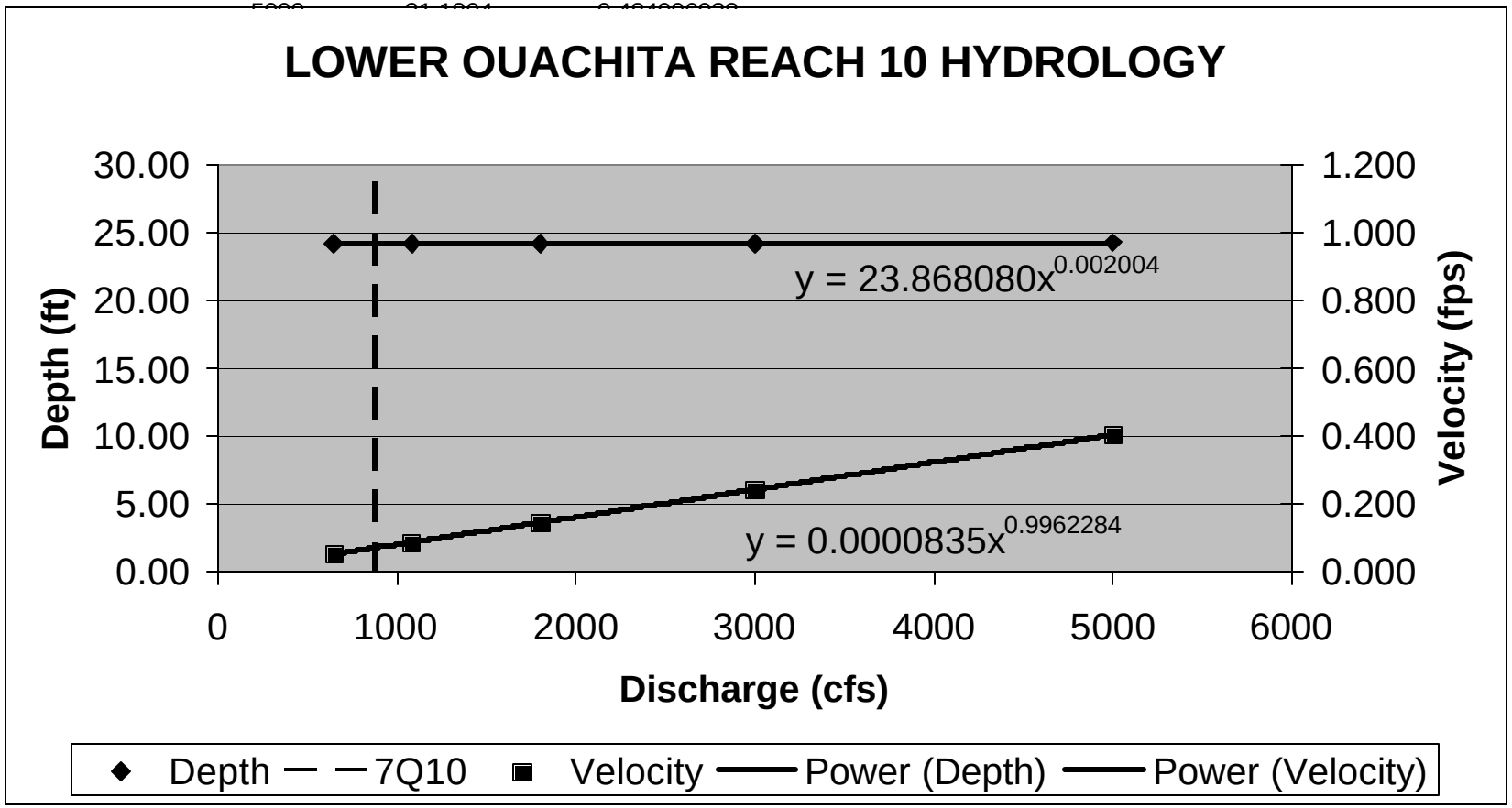
Date	Discharge (cfs)	Depth (ft)	Velocity (fps)	7Q10 (cfs)	Depth scale
1979-1980	648	25.16	0.056	874	0
1979-1980	1080	25.16	0.093		
1979-1980	1800	25.17	0.154		
1979-1980	3000	25.20	0.257		
1979-1980	5000	25.22	0.425	874	30



LOWER OUACHITA HYDROLOGY BY REACH:

Reach Number: 10	Top ORM: 155.38	Bottom ORM: 150.52

Date	Discharge (cfs)	Depth (ft)	Velocity (fps)	7Q10 (cfs)	Depth scale
1979-1980	648	24.20	0.053	874	0
1979-1980	1080	24.20	0.088		
1979-1980	1800	24.21	0.146		
1979-1980	3000	24.23	0.244		
1979-1980	5000	24.31	0.404	874	30

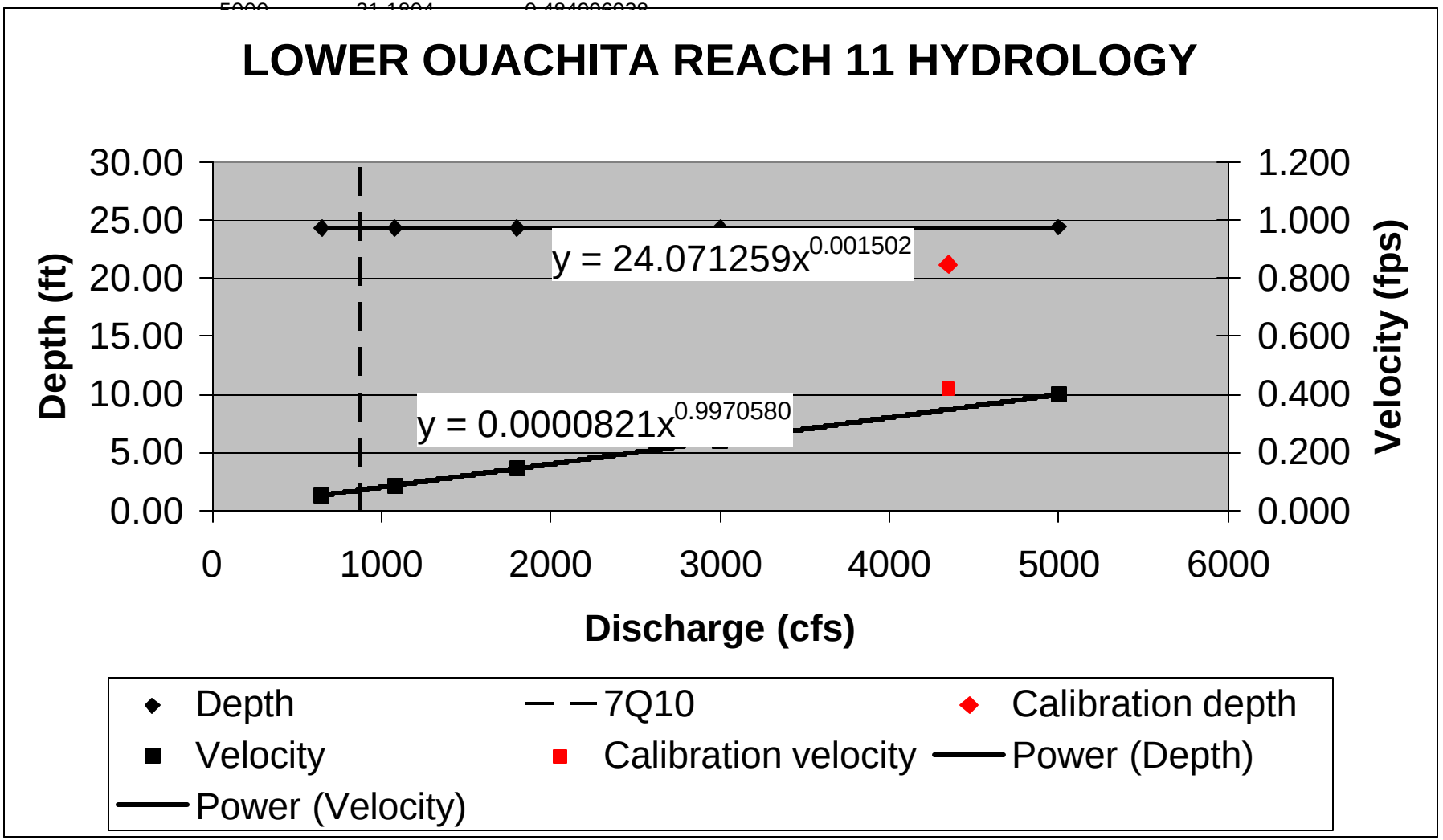


LOWER OUACHITA HYDROLOGY BY REACH:

Reach Number:	11	Top ORM:	150.52	Bottom ORM:	145.32

Date	Discharge (cfs)	Depth (ft)	Velocity (fps)	7Q10 (cfs)	Depth scale
1979-1980	648	24.32	0.052	874	0
1979-1980	1080	24.32	0.087		
1979-1980	1800	24.33	0.145		
1979-1980	3000	24.35	0.241		
1979-1980	5000	24.40	0.400	874	30
	5000	21.1804	0.484096938		

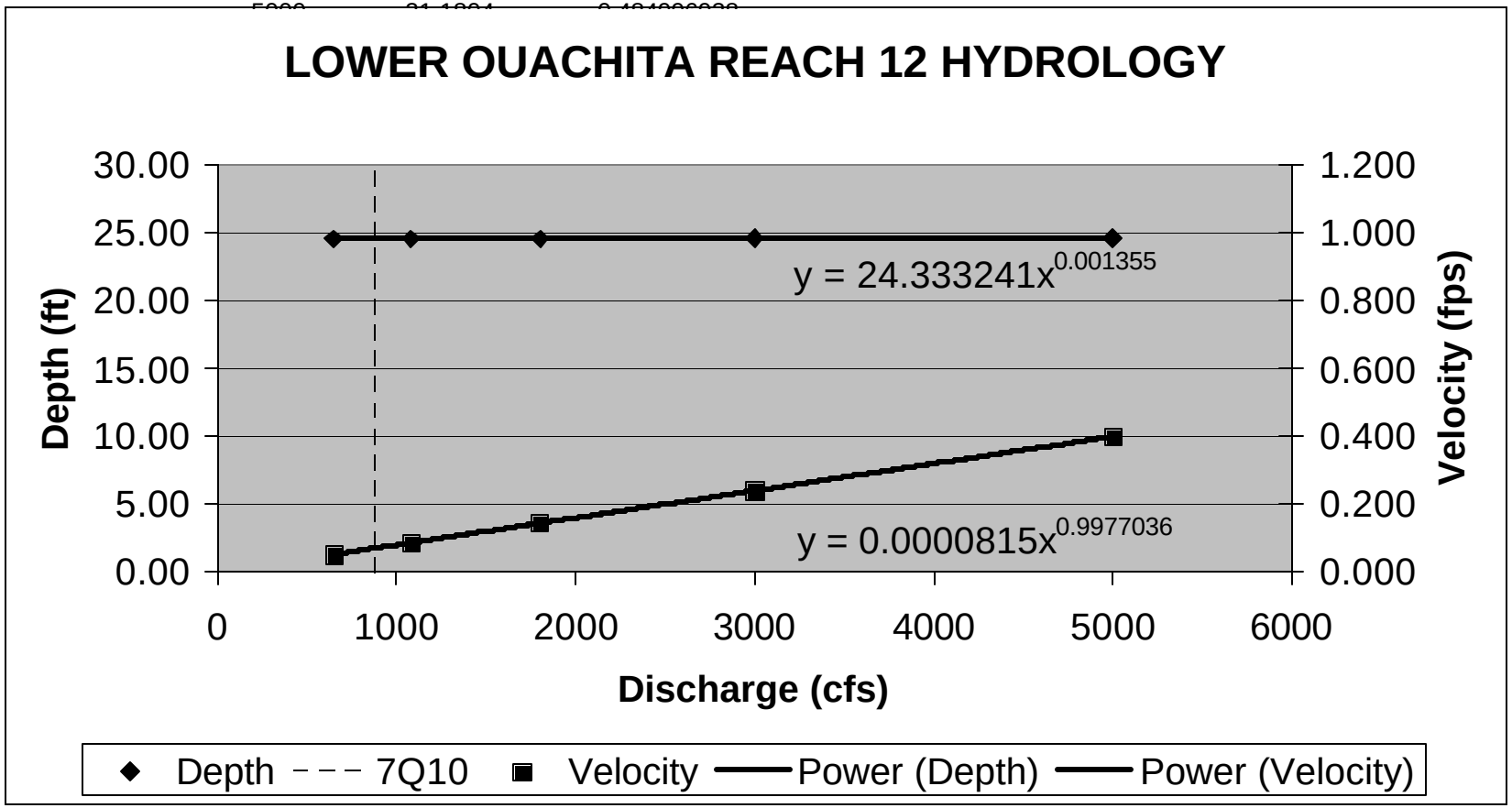
Calibration data	
Depth	21.18
Velocity	0.419
Flow	4346
Width	490
at ORM	148.525



LOWER OUACHITA HYDROLOGY BY REACH:

Reach Number: 12	Top ORM: 145.32	Bottom ORM: 140.41

Date	Discharge (cfs)	Depth (ft)	Velocity (fps)	7Q10 (cfs)	Depth scale
1979-1980	648	24.56	0.052	874	0
1979-1980	1080	24.56	0.087		
1979-1980	1800	24.57	0.144		
1979-1980	3000	24.59	0.240		
1979-1980	5000	24.63	0.399	874	30

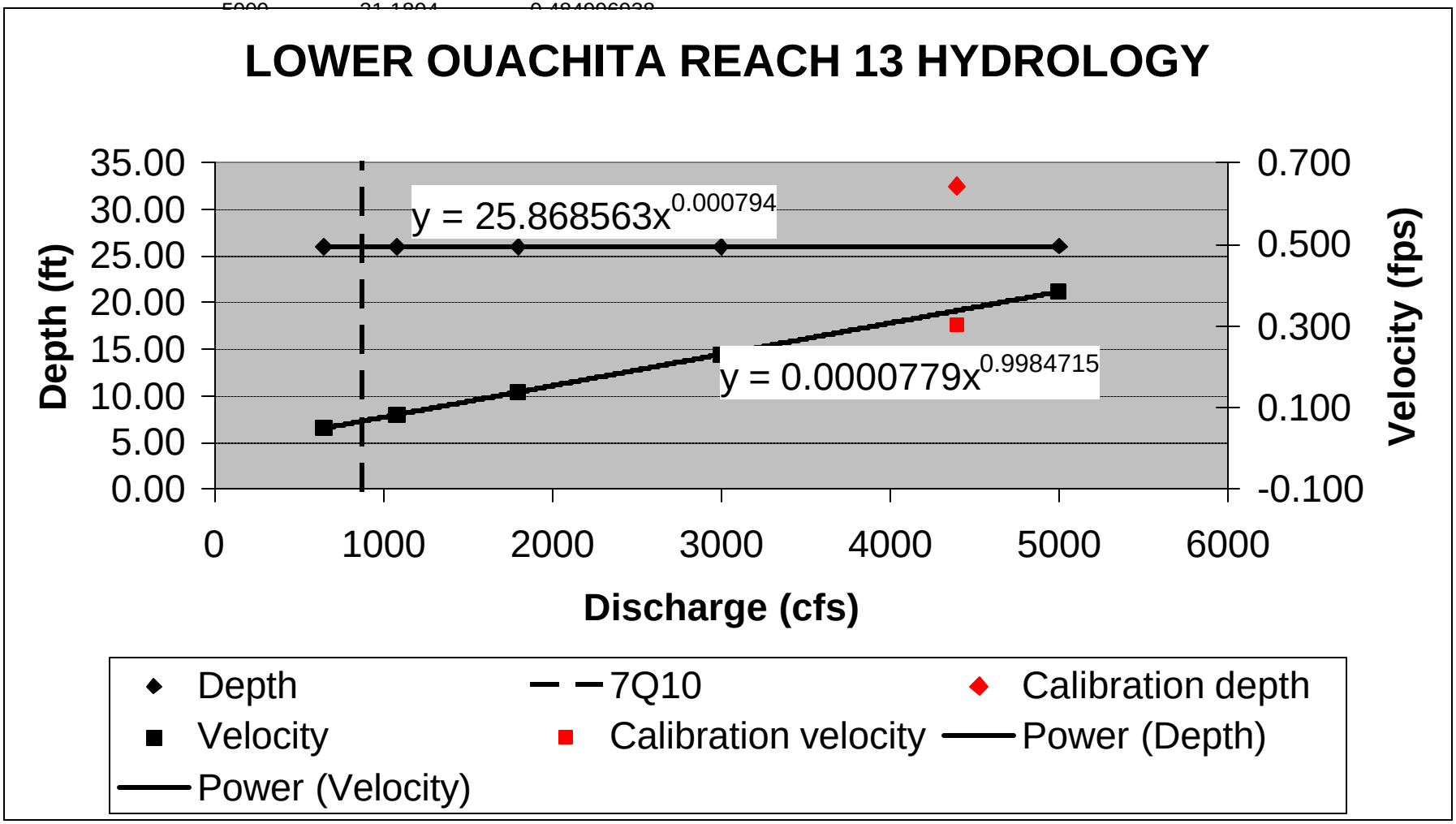


LOWER OUACHITA HYDROLOGY BY REACH:

Reach Number:	13	Top ORM:	140.41	Bottom ORM:	135.47

Date	Discharge (cfs)	Depth (ft)	Velocity (fps)	7Q10 (cfs)	Depth scale
1979-1980	648	26.01	0.050	874	0
1979-1980	1080	26.01	0.083		
1979-1980	1800	26.01	0.139		
1979-1980	3000	26.03	0.231		
1979-1980	5000	26.05	0.384	874	35
	5000	31.1804	0.484096938		

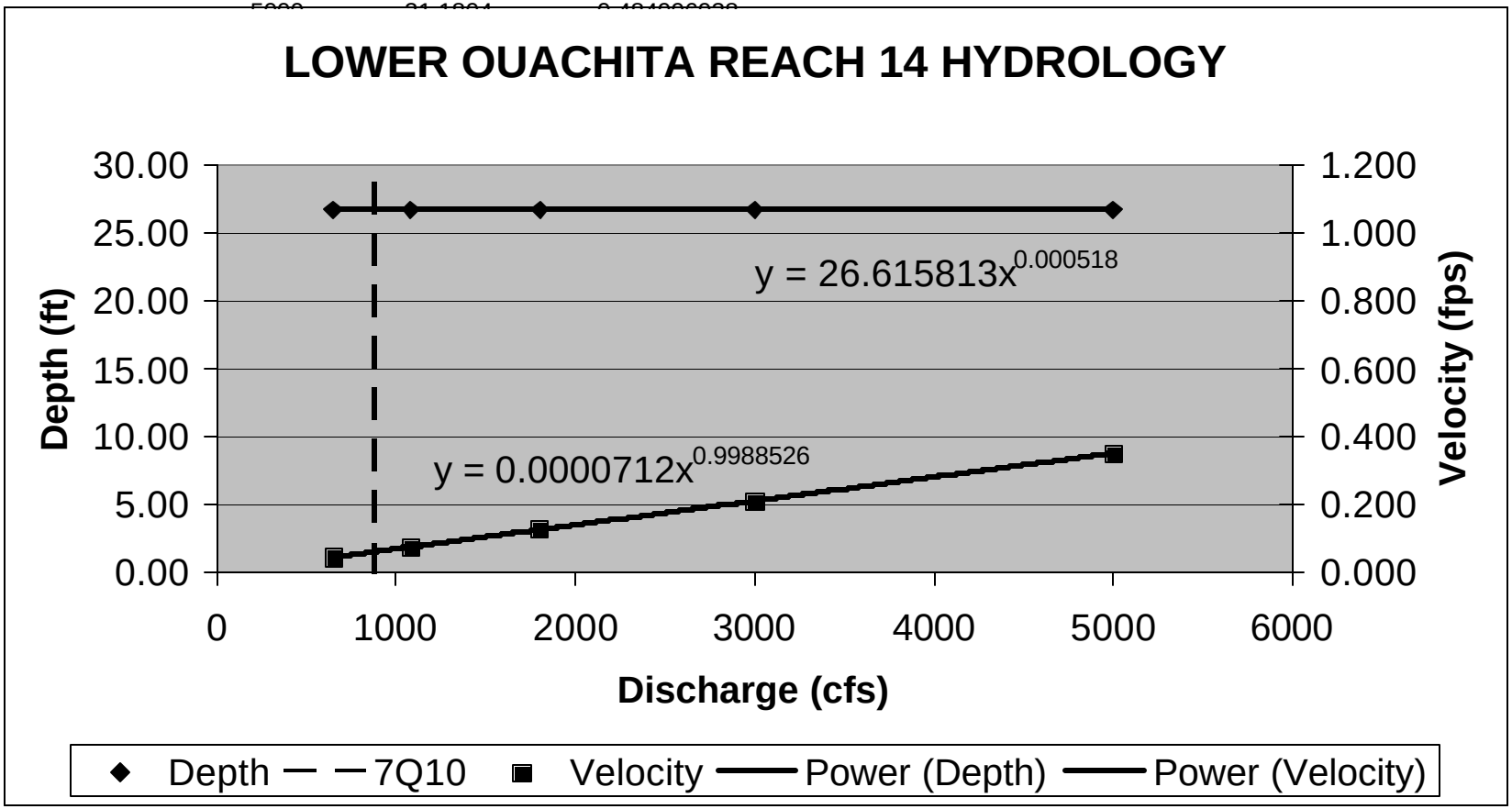
Calibration data	
Depth	32.49
Velocity	0.304
Flow	4395
Width	445
at ORM	138.025



LOWER OUACHITA HYDROLOGY BY REACH:

Reach Number: 14	Top ORM: 135.47	Bottom ORM: 130.48

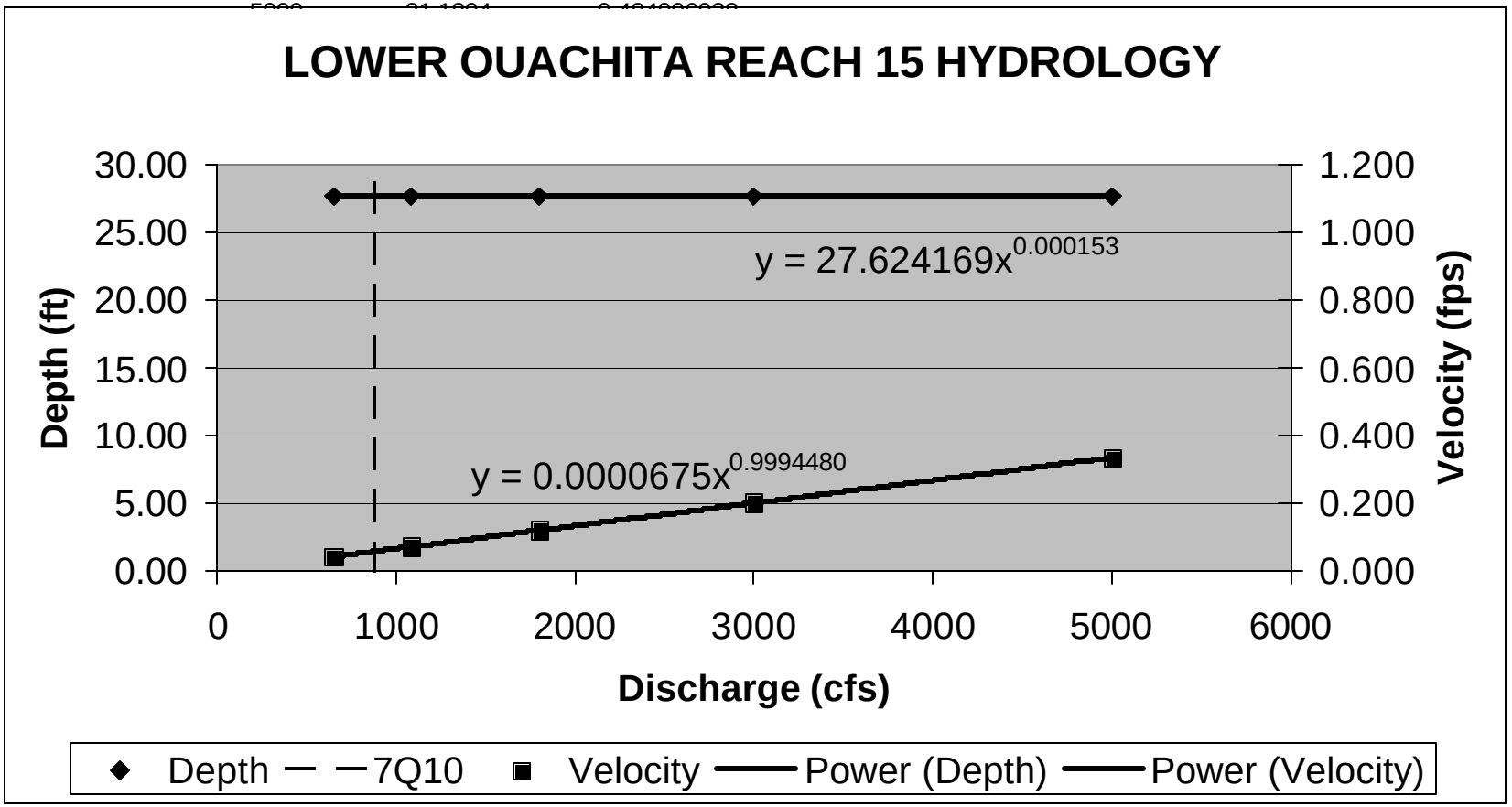
Date	Discharge (cfs)	Depth (ft)	Velocity (fps)	7Q10 (cfs)	Depth scale
1979-1980	648	26.71	0.046	874	0
1979-1980	1080	26.71	0.076		
1979-1980	1800	26.71	0.127		
1979-1980	3000	26.72	0.212		
1979-1980	5000	26.74	0.352	874	30



LOWER OUACHITA HYDROLOGY BY REACH:

Reach Number: 15	Top ORM: 130.48	Bottom ORM: 125.36

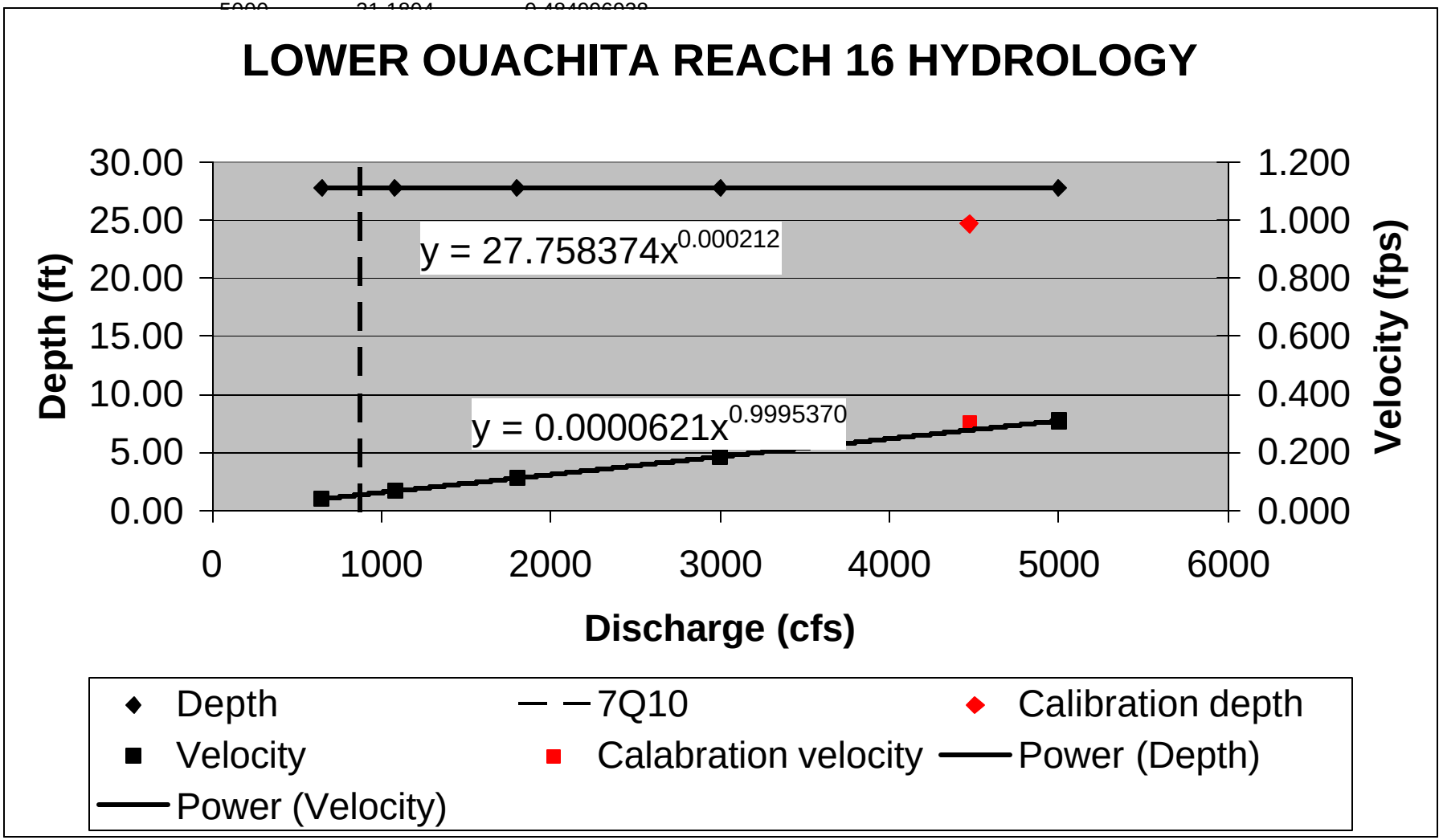
Date	Discharge (cfs)	Depth (ft)	Velocity (fps)	7Q10 (cfs)	Depth scale
1979-1980	648	27.65	0.044	874	0
1979-1980	1080	27.65	0.073		
1979-1980	1800	27.65	0.121		
1979-1980	3000	27.66	0.202		
1979-1980	5000	27.66	0.336	874	30



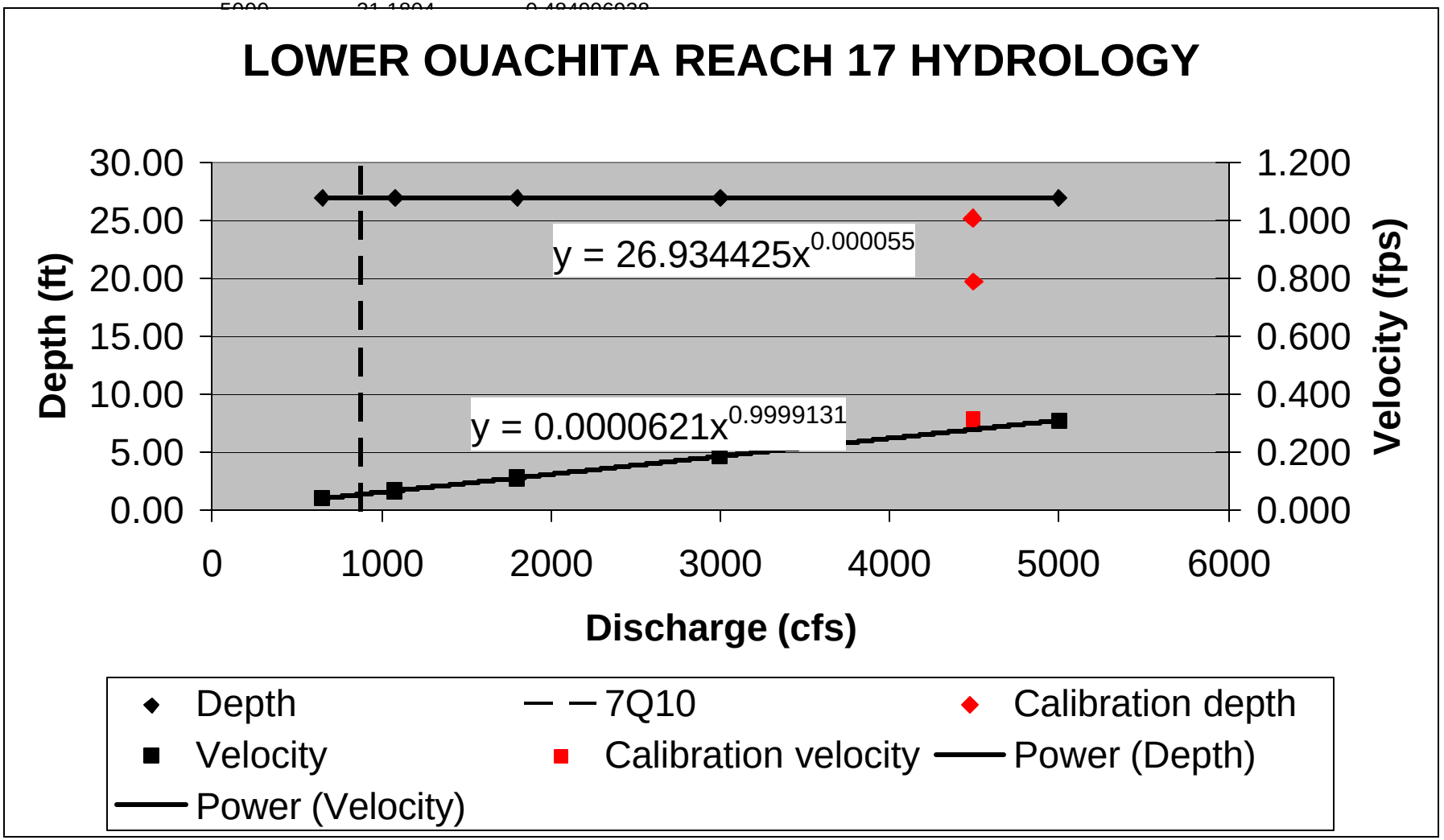
LOWER OUACHITA HYDROLOGY BY REACH:

Reach Number:	16	Top ORM:	125.36	Bottom ORM:	120.40

Date	Discharge (cfs)	Depth (ft)	Velocity (fps)	7Q10 (cfs)	Depth scale	Calibration data	
1979-1980	648	27.80	0.040	874	0	Depth	24.69
1979-1980	1080	27.80	0.067			Velocity	0.301
1979-1980	1800	27.80	0.111			Flow	4471
1979-1980	3000	27.80	0.186			Width	601
1979-1980	5000	27.81	0.309	874	30	at ORM	121.525
	5000	31.1804	0.484996938				



LOWER OUACHITA HYDROLOGY BY REACH:

Reach Number:	17	Top ORM:	120.40	Bottom ORM:	117.38

Date	Discharge (cfs)	Depth (ft)	Velocity (fps)	7Q10 (cfs)	Depth scale	Calibration data		
1979-1980	648	26.94	0.040	874	0	Depth	25.19	19.72
1979-1980	1080	26.94	0.067			Velocity	0.317	0.312
1979-1980	1800	26.94	0.112			Flow	4489	4496
1979-1980	3000	26.95	0.186			Width	563	730
1979-1980	5000	26.95	0.310	874	30	at ORM	118.775	117.775
	5000	31.1804	0.484906938