



Baton Rouge Area

OZONE

There were no days that exceeded the National Ambient Air Quality Standard (NAAQS) for ozone in the Baton Rouge area during the month of February, 2013. Please see the graph on page two for daily air quality index levels in the Baton Rouge area during February.

No Action Days were called for the Baton Rouge area during the month of February.

PM_{2.5}

There were no violations of the NAAQS for PM_{2.5} in the Baton Rouge area during the month of February, 2013. Please see the chart and table on the next page for detailed information on PM_{2.5} levels throughout the state.

Other Areas of the State

OZONE

There were no days that exceeded the National Ambient Air Quality Standard (NAAQS) for ozone in areas of the state other than Baton Rouge during the month of February, 2013.

No Action Days were called for any area of the state during the month of February.

PM_{2.5}

There were no violations of the NAAQS for PM_{2.5} during the month of February, 2013. Although the graph and table on the following page show the AQI on February 9 at Thibodaux to be in the orange level, it is important to note that this is not an official violation of the standard. The monitor at Thibodaux is a continuous PM_{2.5} monitor, which is a Federal Equivalent Method (FEM) of measuring PM_{2.5}. Attainment of the PM_{2.5} National Ambient Air Quality Standard is determined by Federal Reference Method (FRM) models of analyzers. There is no FRM analyzer at the Thibodaux site that can be used for comparison.



Air Quality Summary—February 2013



Good

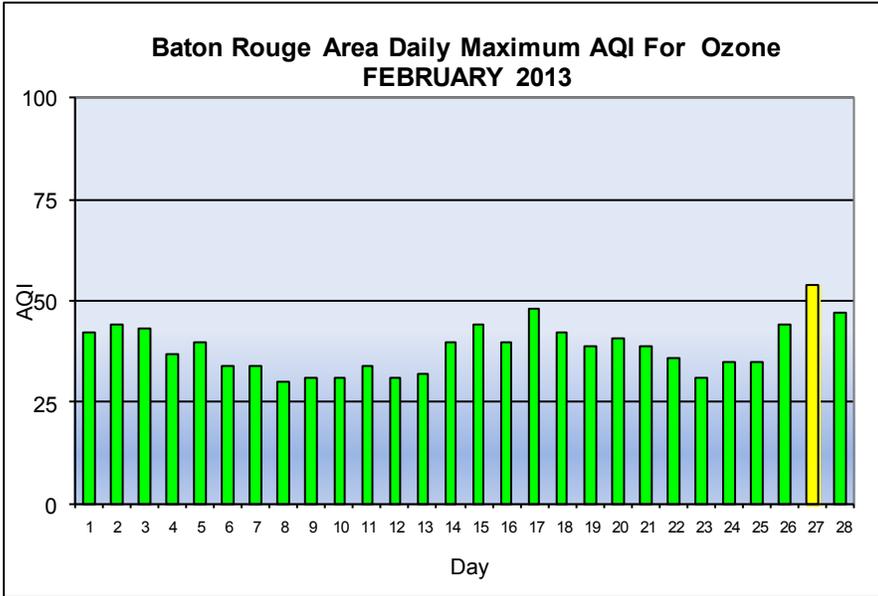
Moderate

Unhealthy for Sensitive Groups

Unhealthy

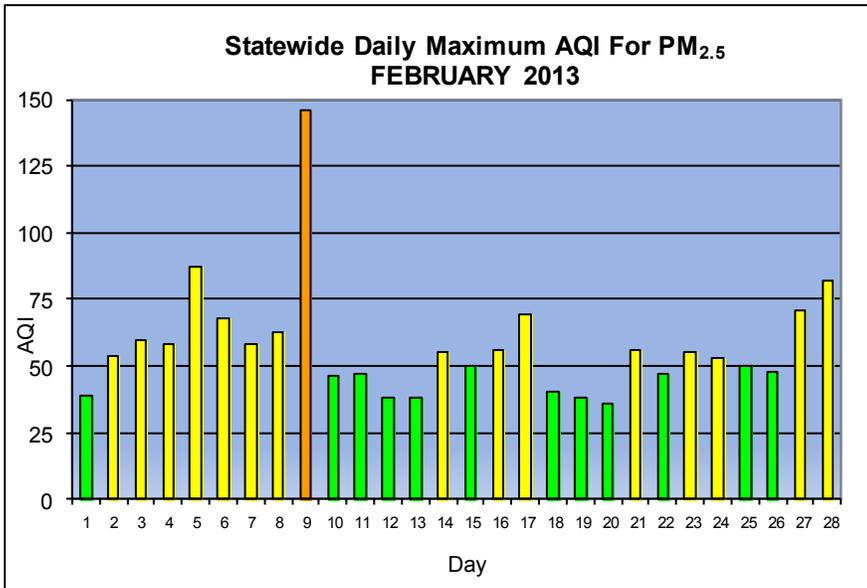
Very Unhealthy

Hazardous



Statewide High PM_{2.5} 24-Hour Average Readings - FEBRUARY 2013

DAY	UG/m3	AQI	SITE
1	9.3	39	Port Allen
2	13.3	54	Westlake
3	16.3	60	Lafayette
4	15.6	58	Lafayette
5	29.2	87	Monroe
6	20.1	68	Monroe
7	15.3	58	Monroe
8	17.6	63	Chalmette Vista
9	53.8	146	Thibodaux
10	11	46	Lafayette
11	11.3	47	Monroe
12	9.2	38	Lafayette
13	9	38	Monroe
14	14.2	55	Monroe
15	12	50	Westlake
16	14.6	56	Lafayette
17	20.5	69	Lafayette
18	9.5	40	Monroe
19	9.2	38	Monroe
20	8.6	36	Monroe
21	14.7	56	Alexandria
22	11.2	47	Monroe
23	14.1	55	Monroe
24	13.2	53	Monroe
25	12	50	Monroe
26	11.4	48	Monroe
27	21.7	71	Westlake
28	26.8	82	Westlake



*Please refer to page 1 for an explanation of the code orange AQI on February 9, 2013.

Baton Rouge Climate Summary—February 2013

*Prepared by: Jay Grymes

(based on available preliminary data as of March 11, 2013)

February Weather Highlights:

- another “wet” and relatively “mild” winter month
- minor flooding along the Amite River for the second time this winter

February 2013’s average temperature was 55.8°F for Baton Rouge’s Metro Airport (AP), less than 1° above the monthly norm. February’s temperature extends the winter run of warmer-than-normal months for Metro AP: For the winter months (Dec-Jan-Feb), Metro AP’s average temperature was 55.5°, 2.1° above the seasonal norm and ranking well within the upper third of “warm” winters for metro Baton Rouge.

Daily temperatures during February 2013 (Fig. 1 and Appendix 1) showed no unusual departures through the month. The first dozen days of February were rather mild, averaging nearly 6° above normal and included February’s highest temperature of 77° (on Jan 10th). Highs reached the 70°s on ten dates (about average for the month) but more notably, there were no unusually “chilly” afternoons, as highs reached the 50°s or above on every day during the month. February lows also tended to be rather mild by winter standards: lows dipped into the 30°s on just six days. The month’s minimum was 32°, recorded on the morning of the 17th (and likely lasting for less than one hour).

February’s coolest spell occurred at mid-month -- Feb 13-19 -- when daily temperatures averaged below normal during an 8-day run. Still, one of the bigger stories for the month -- and the entire winter for that matter -- has been the lack of “hard” freezes and Arctic surges into southern Louisiana. Baton Rouge averages about four “freeze days” during February and between 20 to 25 “freeze days” through the cool months (October - April). The single February freeze was just the sixth freeze of the entire season and the first freeze for Metro AP since Dec 30th. At just six freezes thus far, the 2012-13 cool season (through February) is tied with the 1949-50 and 1930-31 seasons for the fewest number of freezes. (The fewest freezes ever for Baton Rouge? Three during the 1931-32 season).

Table 1: February 2013 Temperature and Degree-Day Summaries

Temperatures & Departures (°F)				
Monthly MeanT	Monthly MaxT	Monthly MinT	D-J-F MeanT	YTD MeanT
55.8° +0.7°	66.0° +0.3°	45.6° +1.1°	55.5° +2.1°	55.1° +1.7°

Cooling Degree-Days & %Normal		Heating Degree-Days & %Normal	
Monthly CDDs	Seasonal* CDDs	Monthly HDDs	Seasonal* HDDs
4 22%	25 81%	254 86%	1172 88%

*CDD Season: Jan 1 thru Dec 31

*HDD Season: Jul 1 thru Jun 30

Baton Rouge Climate Summary—February 2013

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(based on available preliminary data as of March 11, 2013)

Mild winter temperatures -- as evidenced by the lack of freezes and an absence of significant Arctic air mass intrusions into southern Louisiana -- have led to heating degree-days (HDDs) totals for the Baton Rouge metro area running just 88% of normal for the season, likely providing a modest reduction in energy demands for indoor heating for area businesses and residences.

February 2013's rain total for Baton Rouge Metro Airport was 7.37" -- 2.33" above normal and continuing the "wet" trend for the 2012-13 winter (Dec-Jan-Feb). Although far from a record total for February, the 7.37" does fall within the top quarter of all February totals (records back to 1888).

For the year (Jan-Feb 2013), Metro Airport stands at 22.04", more than double the two-month normal and ranking behind 1966 (24.44") as the second "wettest" Jan-Feb period since 1888. And when combined with the "wet" December 2012, 2012-13 winter (Dec-Jan-Feb) rainfall for Metro Airport comes to 30.14" -- nearly double the winter norm (16.36") and roughly equivalent to six months of "normal" rainfall. The 2012-13 winter total is the greatest on record (back to 1888), slightly surpassing the 29.15" recorded during the 1965-66 winter season.

Table 2: Distribution of January 2013 rain totals based on sites (Table 2) with complete monthly records for the month (31 sites).

No. Sites ≤ 7.00"	No. Sites 7.01" - 8.00"	No. Sites 8.01" - 9.00"	No. Sites 9.01" - 10.00"	No. Sites > 10.00"
3	5	13	6	2

Based on the 29 sites in Table 3 (with complete monthly totals), metro area regional rainfall for February 2013 averaged 8.45", with a median of 8.41" -- both numbers nearly three inches above the February regional average (roughly 5.6"). 21 of the 29 stations reported more than 8" of rain during February, with two sites topping 10" for the month. Metro Airport was one of the "drier" locations within the metro area during February, with its 7.37" ranking as the 6th lowest total from the area network (Table 3).

All 13 of the NWS Cooperative sites with monthly normals posted above-normal February rain totals, with 4 sites ending the month more than 3" above normal. Most of the metro area sites recorded measurable rainfall on 11 to 13 days during February (Metro AP averages 8 to 9 February raindays), with the majority of sites recording 3 to 5 days with one-inch or more of rain (Metro AP averages 1 to 2 days in February with one-inch or more of rain).

Daily data from Metro Airport (Fig. 1 and Appendix 1) suggest that February rains were fairly well-distributed through the month. There were a number of significant rain-producing frontal periods during February 2013 (Appendix 2), including Feb 6-7, Feb 10-13, Feb 18-19, Feb 21-22 and Feb 24-25. Yet there were also several frontal periods that were essentially rain-free, including cold-front passages during Feb 1, Feb 8, Feb 15 and Feb 27. February's "wettest" period for a majority of metro area sites occurred during Feb 10-13, prompting Flood Warnings for both the Amite and Comite rivers (Figs. 5a & 5b).

Baton Rouge Climate Summary—February 2013

*Prepared by: Jay Grymes

(based on available preliminary data as of March 11, 2013)

Table 3: February 2013 rainfall for selected sites across the greater Baton Rouge metro area. (Data are preliminary and provided courtesy of the National Weather Service, the LSU Southern Regional Climate Center, the LSU AgCenter, and the CoCoRaHS Volunteer Network.)

Rain-Reporting Site	Monthly Rainfall		No. Days		Year-to-Date	
	Total	DFN	≥0.01"	≥1.00"	Total	DFN
<i>NWS Cooperative Stations</i>						
BR – Metro Airport	7.37"	+2.33"	13	1	22.04"	+11.28"
BR - Concord Estates	8.41"	+2.73"	11	4	26.92"	+15.68"
BR - Sherwood Forest	9.36"	+3.60"	11	4	25.79"	+14.92"
Clinton	7.19"	+1.33"	10	1	20.63" <i>(j)</i>	--
Denham Springs	7.33"	+1.90"	12	4	20.05"	+9.31"
Dutchtown	10.60"	--	14	3	28.68"	--
Gonzales	8.91"	+3.73"	11	3	25.03"	+14.47"
Livingston	9.48"	+3.83"	9	5	27.16"	+16.09"
New Roads	7.92"	+2.18"	11	3	26.01"	+14.33"
Oaknolia	6.93"	+0.92"	11	4	20.23"	+8.02"
Plaquemine	8.11"	+2.43"	12	3	23.91"	+13.06"
Port Allen	6.81"	+1.23"	11	3	22.08"	+10.81"
St. Francisville	6.99"	+1.37"	13	2	19.60"	+7.55"
St. Gabriel	9.22"	+4.30"	13	3	22.43"	+12.36"
<i>CoCoRaHS Volunteer Observers</i>						
Baton Rouge 2.7 SW (LA-EB-2)	8.12"	--	12	4	26.10"	--
Baton Rouge 3.5 E (LA-EB-14)	9.31"	--	12	4	26.14"	--
Baton Rouge 2.5 E (LA-EB-27)	8.44"	--	12	4	24.55"	--
Baton Rouge 4.3 S (LA-EB-41)	8.16"	--	12	3	25.53"	--
Baton Rouge 1.4 WSW (LA-EB-46)	8.60"	--	12	4	25.75"	--
Baton Rouge 5.3 S (LA-EB-47)	4.49" <i>(j)</i>	--	M	M	23.30" <i>(j)</i>	--
Baton Rouge 2.1 S (LA-EB-48)	8.41"	--	12 <i>(e)</i>	4	25.81"	--
Inniswold 2.8 S (LA-EB-42)	9.70"	--	12	4	24.87"	--
Monticello 4.6 NNE (LA-EB-31)	7.38" <i>(j)</i>	--	M	M	22.31" <i>(j)</i>	--
Shenandoah 1.5 E (LA-EB-22)	8.67"	--	12	4	23.62"	--
Zachary 3.5 WNW (LA-EB-28)	8.01"	--	12	4	21.91"	--
Gonzales 4.0 S (LA-AS-5)	8.56"	--	11	3	24.51"	--
Prairieville 1.8 NW (LA-AS-10)	8.60"	--	11 <i>(e)</i>	3 <i>(e)</i>	24.53"	--
Port Vincent 4.4 W (LA-AS-2)	10.77"	--	14	2	27.33"	--
Wakefield 0.9 WNW (LA-WF-4)	2.67" <i>(j)</i>	--	M	M	16.96" <i>(j)</i>	--
<i>Additional Metro Area Sites</i>						
LSU Campus (LA-EB-33)	8.09"	--	12	4	26.28"	--
WAFB-TV, Downtown BR	7.49"	--	13	3	22.00"	--
LSU Ben Hur Farm	9.37"	--	12	6	25.73"	--
Regional Average	8.45"	+2.45"	11.8	3.4	24.25"	+12.32"
Regional Median	8.41"	+2.33"	12	4	24.95"	+12.36"

DFN - Departure-from-Normal "--" - Normal Not Available

M - Missing Value

(e) - Estimated Value

(j) - Incomplete Total

Baton Rouge Climate Summary—February 2013

*Prepared by: Jay Grymes

(based on available preliminary data as of March 11, 2013)

Figure 1: February 2013 *Daily Maximum and Minimum Temperatures, Dew Point and Precipitation* from the Baton Rouge Metro Airport ASOS.

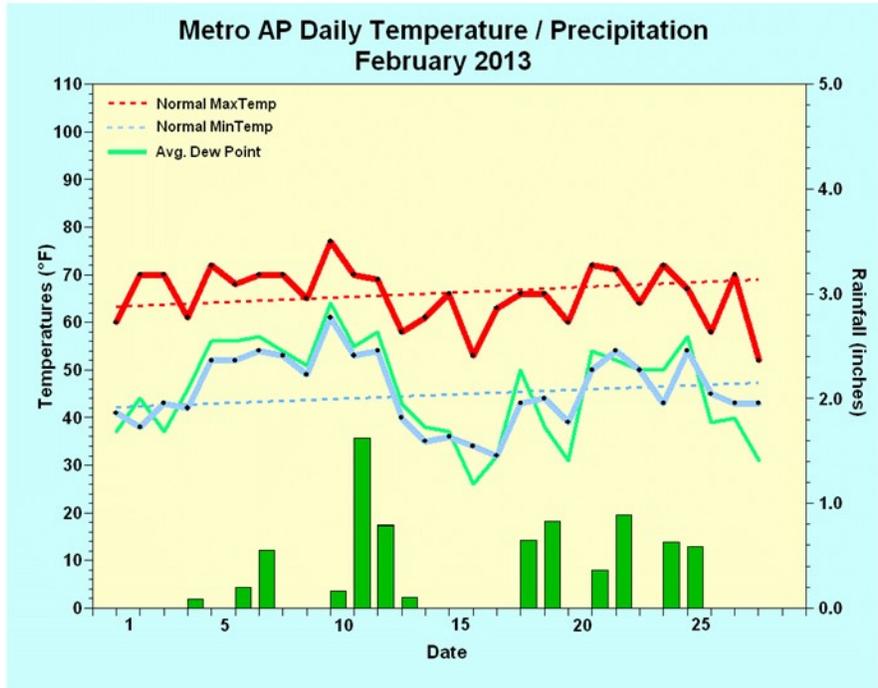
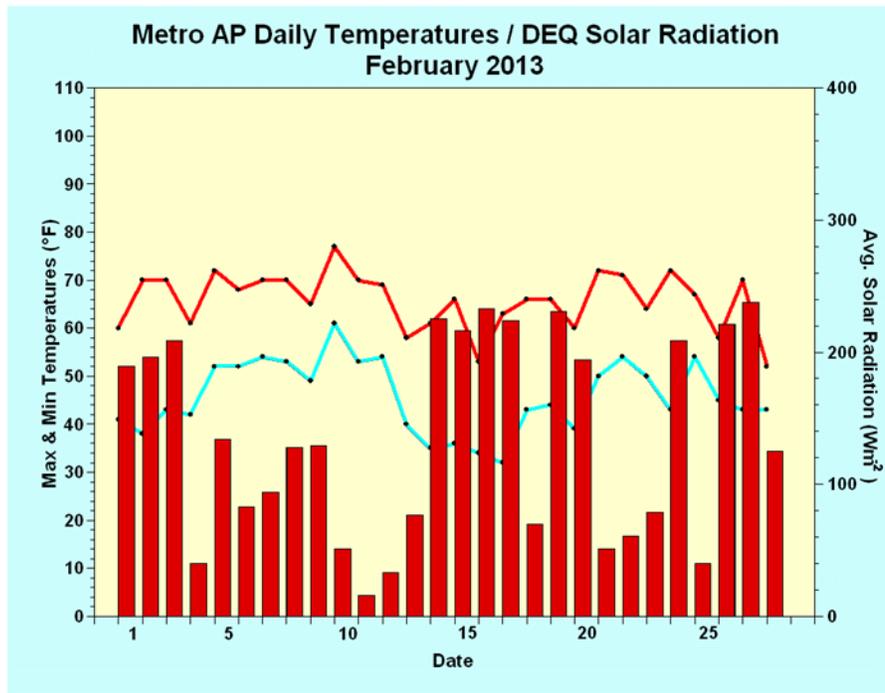


Figure 2: February 2013 *Daily Average Hourly Solar Radiation* as recorded at DEQ’s Capitol site and *Daily Maximum and Minimum Temperatures* from the Baton Rouge Metro Airport ASOS.



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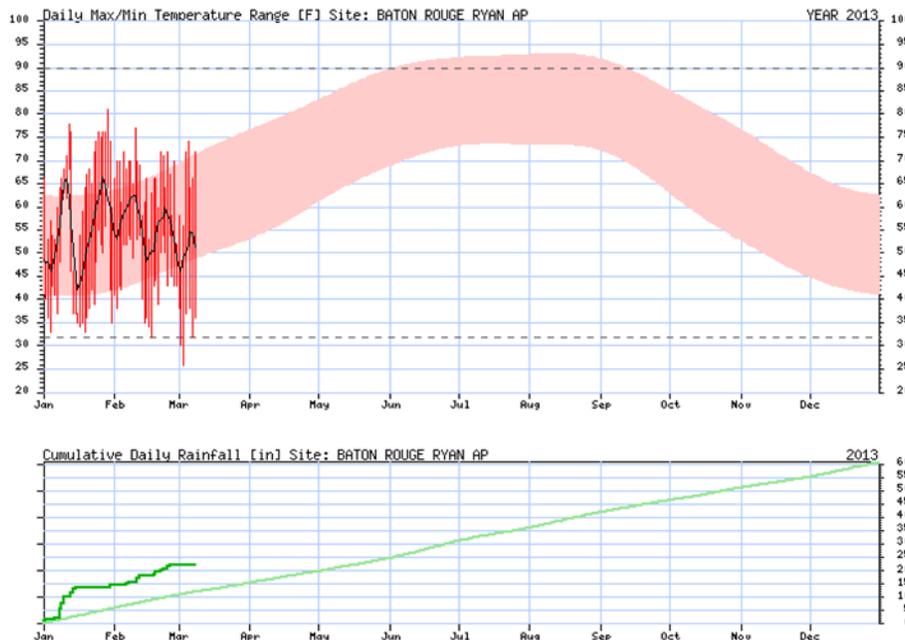
Although rain totals and raindays were above average during February 2013, there were still considerable periods of sunshine throughout the month (Fig. 2 & Table 4). Half of all February days were “fair sky” days (Table 4c), with another four days rated as partly-cloudy. Yet frequent frontal passages and rainy days meant plenty of cloud cover during February, including three days -- Feb 11, 21 & 22 -- when the ASOS reported overcast skies dominating the daylight period.

Thunderstorms were recorded by the ASOS platform only Feb 11, 22, 24 and 25, with regional storms becoming “severe” on Feb 22 and 25. Note that while two Tornado Watches were issued on Feb 10th, the ASOS recorded no thunderstorm activity that day -- a reminder that a “Watch” indicates conditions favorable for development but does not guarantee that development will occur.

Visibilities dropped below 7 miles on more than half of all February days, with “heavy” fog (vis \leq ¼ mi.) on three mornings: Feb 5, 6 and 8. Based on the ASOS reports, visibilities under ¼-mile lasted for roughly four hours on Feb 5th, with durations of about an hour or less on the 6th and 8th. However, the ASOS reported visibilities “near zero” from approximately 7:16-7:24am on the 8th.

February 2013 winds at Metro Airport averaged 7.0 mph, just a shade under the 28-year monthly average of 7.8 mph. Daily winds averaged above 10.0 mph on five days: Feb 10, 18, 21, 25 and 26. Of these, the first four were marked by strong, mainly-southeasterly pre-frontal winds ahead of advancing systems. By contrast, the elevated winds of Feb 26th were mainly westerly winds on the “backside” of the Feb 25th frontal passage. “Nearly-calm” days (winds averaging under 3.0 mph) included Feb 1, 3, 5 and 14. Peak sustained winds topped 20.0 mph on eight dates, with February’s maximum sustained wind of 30 mph (from the south) recorded on Feb 21st. Peak daily gusts exceeded 30.0 mph on six dates, with a monthly maximum gust of 40 mph on Feb 26th.

Figure 3: 2013 Daily Temperature and Cumulative Rainfall for Baton Rouge Metro Airport compared to long-term averages (as of 9 March 2013).



Source: LSU Southern Regional Climate Center (www.srcc.lsu.edu)

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Table 4: February 2013 additional reports and observations for the ASOS (Automated Surface Observing System) weather platform at Baton Rouge Metro Airport (BTR).

4a. Significant Weather.

No Days:	Feb 2013	Median *
Thunderstorms	4	4
“Heavy” Fog (Vis** ≤ ¼ mi.)	3	3
All Visibility*** (Vis** < 7.0 mi.)	15	14
Fog / Mist (Vis** < 7.0 mi.)	15	14
Smoke / Haze (Vis** < 7.0 mi.) Haze / Smoke (Vis** < 7.0 mi.)	3	1

Median* - based on observations during 2000-2012

Vis** - Sensor Equivalent Visibility; Fog/Mist are distinguished from Haze/Smoke through evaluation of temperature and humidity at the time of observation

All Visibility*** - total number of days with any obstructions leading to At least one observation with Visibility estimated under 7 miles

4b. Average Daily wind Speed.

	< 3.0 mph (Near Calm)	3.0 mph < 5.0 mph	5.0 mph <10.0 mph	10.0 mph <15.0 mph	≥ 15.0 mph
No. Days	4	5	14	5	0

4c. Average “Daylight” Sky Conditions (estimated to 12,000 ft)

	Clear to Mostly Sunny (0/10ths – 3/10ths)	Partly Cloudy To Partly Sunny (4/10ths – 6/10ths)	Mostly Cloudy To Overcast (7/10ths – 10/10ths)
No. Days	14	4	10

4d. Solar/Lunar Summary

Sunrise-Sunset Durations: (excludes ‘Civil Twilight’)		
Feb 1	Feb 14	Feb 28
10.8 hours	11.1 hours	11.5 hours

Moon Phases:			
Last Quarter	New Moon	First Quarter	Full Moon
Feb 3	Feb 10	Feb 17	Feb 25

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Table 5: February 2013 significant Preliminary ‘Local Storm Reports’ as posted by the NWS for the greater Baton Rouge metro area. (Final reports/confirmation available through the NWS.)

Date	Time (CST)	Event	Location*	Parish
2 / 25	2:29 PM	0.25" Hail	2 N Gonzales	ASC
2 / 25	2:30 PM	1.00" Hail	3 N Gonzales	ASC
2 / 25	2:33 PM	1.75" Hail	3 N Gonzales	ASC
2 / 25	2:36 PM	1.00" Hail	Gonzales	ASC
2 / 25	2:40 PM	1.75" Hail	Pt. Vincent	LIV
*Locations approximated in whole miles from town center				

Table 6: February 2013 Watches and Warnings issued for East Baton Rouge Parish.

Date(s)	Approx. Time in Effect (CST)	Event
2 / 10	11:10 AM - 5:34 PM	Tornado Watch (WW 0032)
2 / 10	5:34 PM - 9:39 PM	Tornado Watch (WW 0034)
2 / 12	10:00 AM - 8:34 PM	Flood WARNING: Comite River
2 / 11 - 16	3:18 PM - 3:40 PM	Flood WARNING: Amite River
2 / 22	8:01 PM - 8:46 PM	Severe T-Storm WARNING
2 / 22	8:36 PM - 10:30 PM	Areal Flood Advisory
2 / 22	9:59 PM - 10:45 PM	Severe T-Storm WARNING
2 / 24 - 25	10:21 PM - 12:15 AM	Areal Flood Advisory
2 / 25	12:05 AM - 6:44 AM	Severe T-Storm Watch (WW 0040)
2 / 25	12:31 PM - 7:48 PM	Tornado Watch (WW 0042)
2 / 25	2:24 PM - 3:15 PM	Severe T-Storm WARNING

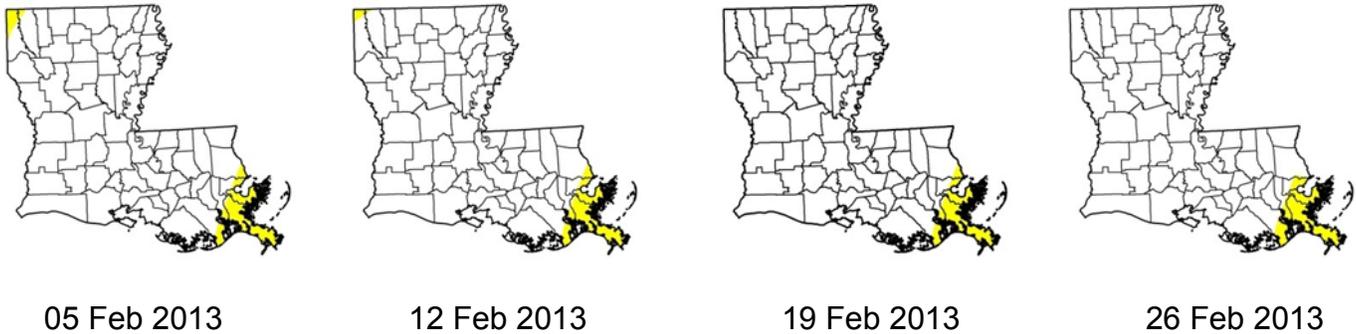
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Figure 4a-d: Louisiana’s weekly **U.S. Drought Monitor** (USDM) for February 2013.

Source: <http://drought.unl.edu/DM/>

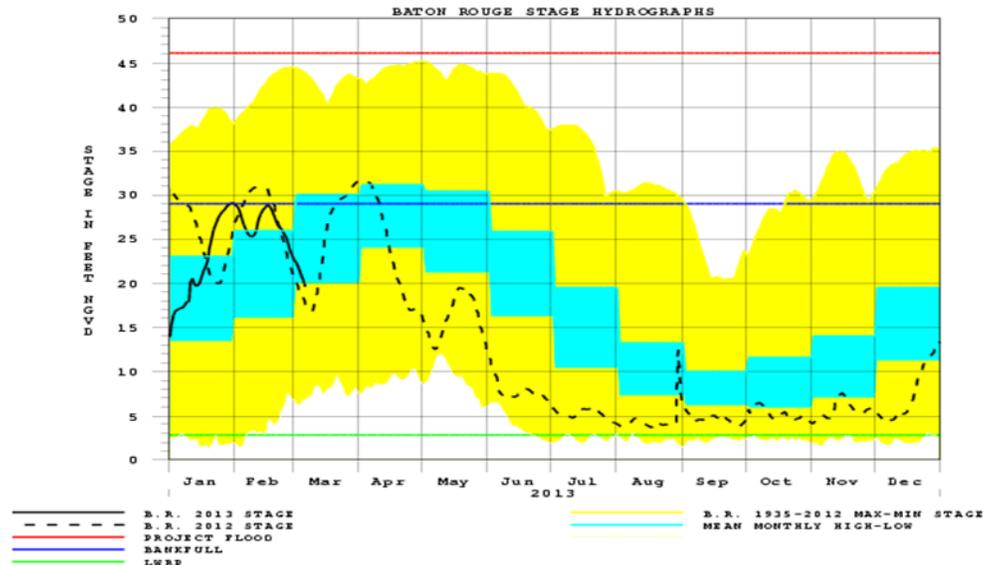


Although the extreme southeastern portion of Louisiana remains “abnormally dry” (according to USDM authors), continued wetter-than-normal weather for the greater Baton Rouge metro area through the 2012-13 winter has not only eliminated any potential for drought in the coming weeks, but has kept the region in a position where local flooding remains a significant threat.

Intensity:

- D0 Abnormally Dry
- D1 Drought - Moderate
- D2 Drought - Severe
- D3 Drought - Extreme
- D4 Drought - Exceptional

Figure 5: Mississippi River Daily Stage for 2012 and 2013 as of 7 March 2013, with comparisons to long-term averages and extremes.



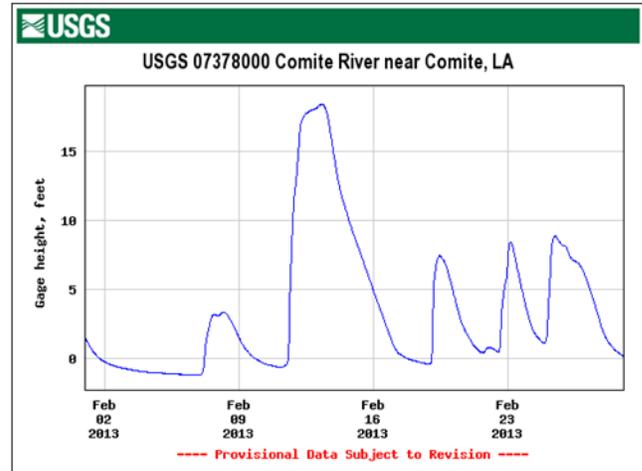
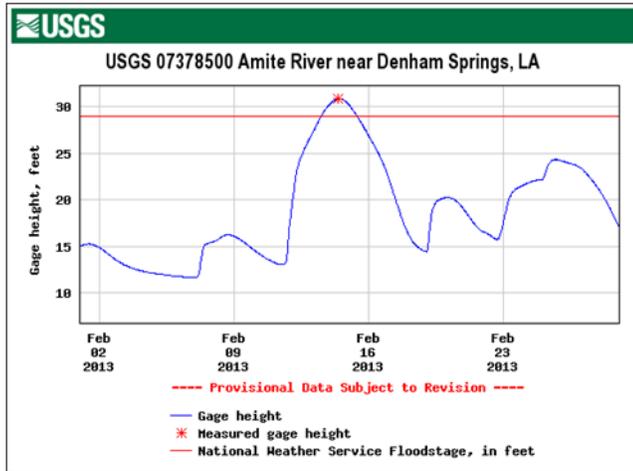
Water levels for the Mississippi River at Baton Rouge (solid black line) remained near average to slightly-above average throughout February 2013, although the stage data show a steady decline during the latter third of the month.

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Figure 6a-b: Daily river stages, Amite River near Denham Springs and Comite River near Comite (Joor Rd.) during February 2013.



Source: USGS Louisiana Hydrowatch.

Rains during Feb 10-13 prompted a rapid rise along the Amite River, with river gages at both Denham Springs and Bayou Manchac Point going into flood. For Denham Springs, the river was in “minor flood” from Jan 13-15, with the gage peaking at 30.9 ft on the morning of Jan 14 (Flood Stage: 29.0 ft), slightly below the previous 2013 winter peak stage of 32.1 ft (on Jan 11-12).

Although a Flood Warning was posted for the Comite/Joor Rd. gage on Feb 12th, the river crested well below flood stage (20.0 ft) at 18.4 ft on the morning of Feb 13th.

Acknowledgements:

- National Weather Service offices serving Louisiana
- LSU Southern Regional Climate Center (SRCC)
- Louisiana Office of State Climatology (LOSC)
- LSU AgCenter / LAIS AgWeather Monitoring Program
- CoCoRaHS Volunteer Network
- U.S. Drought Monitor (<http://drought.unl.edu/DM/>)
- NWS Climate Prediction Center (NWS/CPC)
- NWS Storm Prediction Center (NWS/SPC)
- NWS Weather Prediction Center (NWS/WPC)
- NOAA/National Climatic Data Center (NCDC)
- Iowa Environmental Mesonet (<http://mesonet.agron.iastate.edu/>)
- U.S. Geological Survey, Louisiana District (USGS)
- U.S. Army Corps of Engineers, New Orleans District (USACE)
- WAFB-TV (Ch. 9), Baton Rouge

Prepared by: Jay Grymes

WAFB-TV Chief Meteorologist & LSU AgCenter Climatologist

11 March 2013

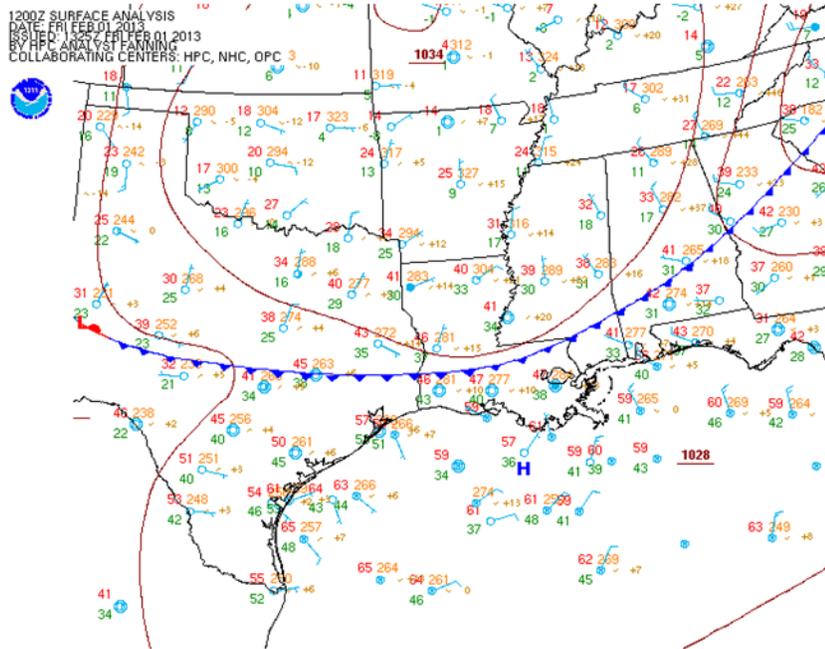
*Jay Grymes, LSU AgCenter Climatologist and WAFB Chief Meteorologist, provides the climatology portion of this report as a free service to DEQ and the citizens of Louisiana.

Baton Rouge Climate Summary—February 2013

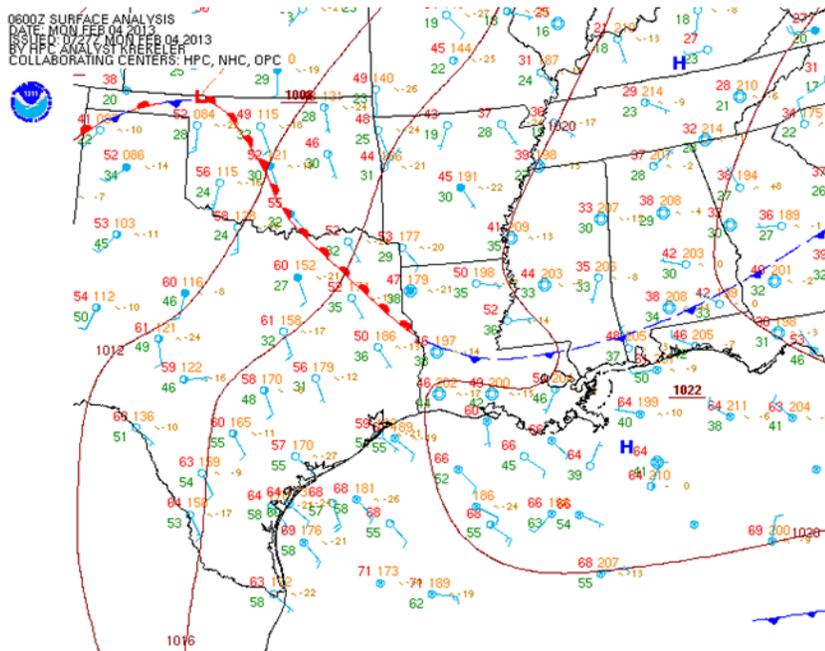
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Appendix 2: Surface Weather Charts for January's Significant Weather.



Feb 1: A “dry” cold front moved southward into southern Louisiana early on the 1st and briefly stalled over southeastern Louisiana before dissipating at day’s end.

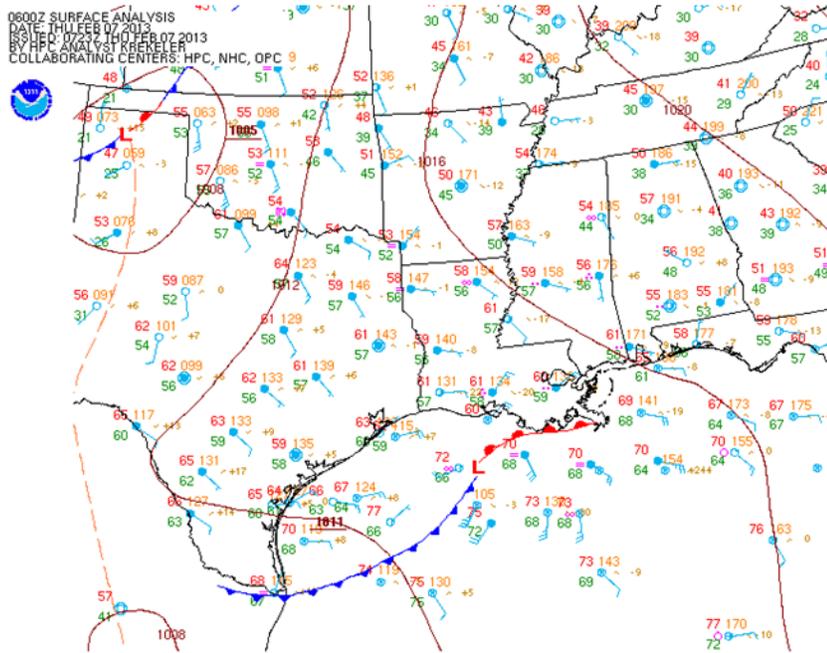


Feb 4: A southward moving cold front dissipated as it moved into southeastern Louisiana early on the 4th. Scattered mainly-light showers during the latter half of the day and into the early hours of the 5th produced 0.09” at Metro AP.

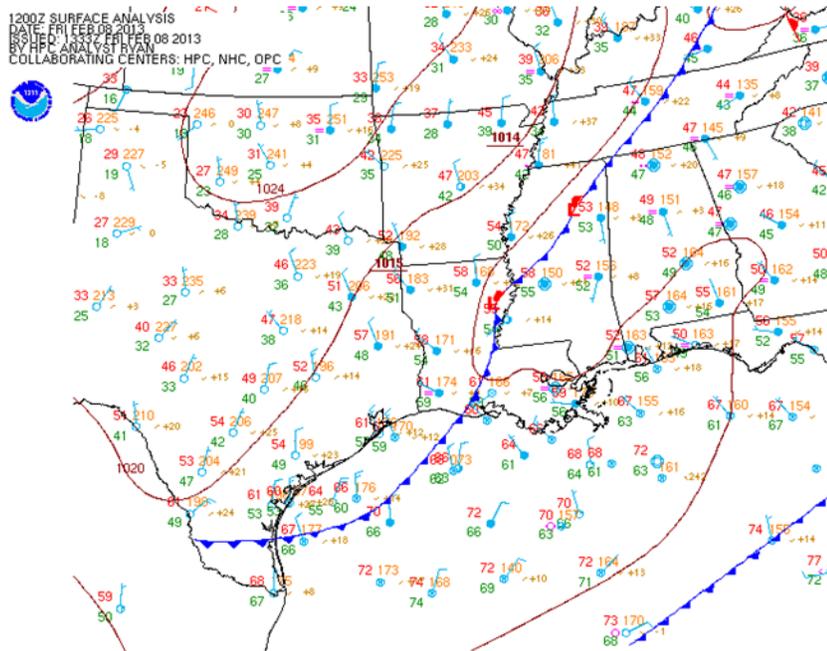
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Feb 6-7: A mid-level disturbance combined with a storm tracking from west to east across the northern Gulf to produce 0.75" of rain at Metro AP between the afternoon of the 6th and pre-dawn hours of the 7th.

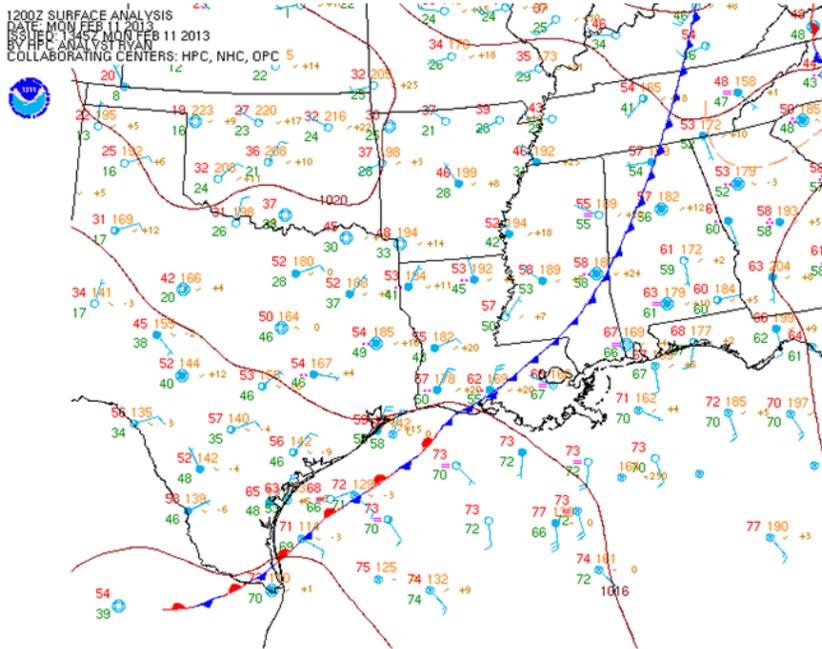


Feb 8: The month's second "dry" front moved through the viewing area early on the 8th, producing clouds but little to no rain in the region.

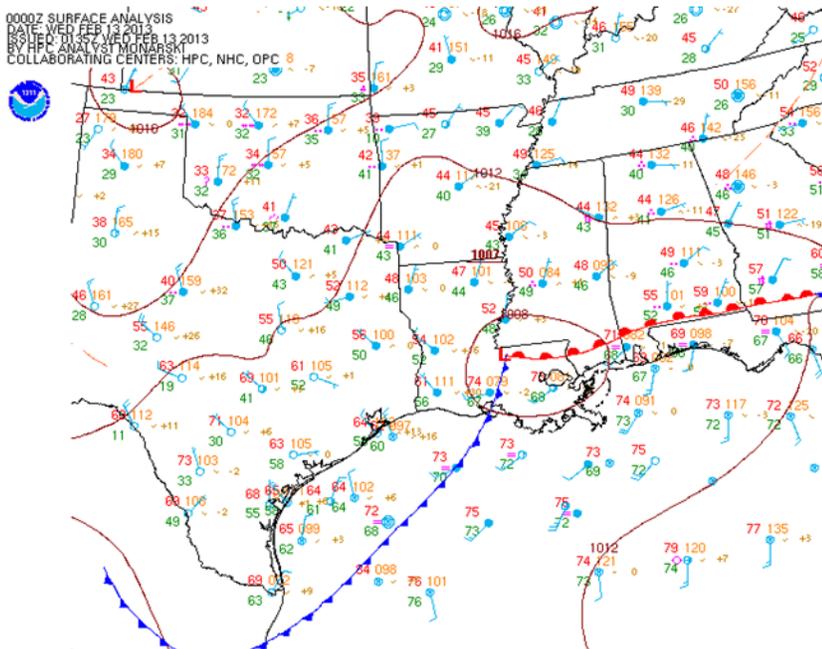
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Feb 10-11: Thunderstorms ahead of an eastward advancing cold front prompted the NWS to issue two Tornado Watches for the metro area on the 10th. The front moved through the Baton Rouge metro area early on the 11th, then stalled along the coast that evening. Metro AP recorded 1.78" of rain over the 2-day period, with 1.62" of that falling on the 11th.

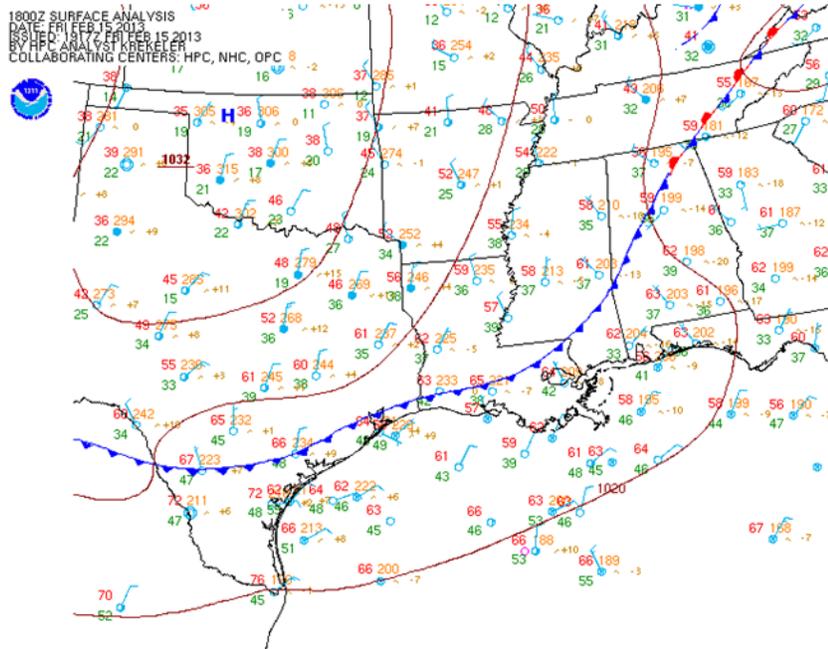


Feb 12-13: A surface low developed over the western Gulf along the stalled coastal front and tracked ENE across southern Louisiana and through the metro area late on the 12th, exiting the region early on the 13th. Metro AP record 0.79" on the 12th and another 0.01" early on the 13th. Rains during the 4-day period of Feb 10-13 prompted Flood Warnings for the Amite and Comite rivers.

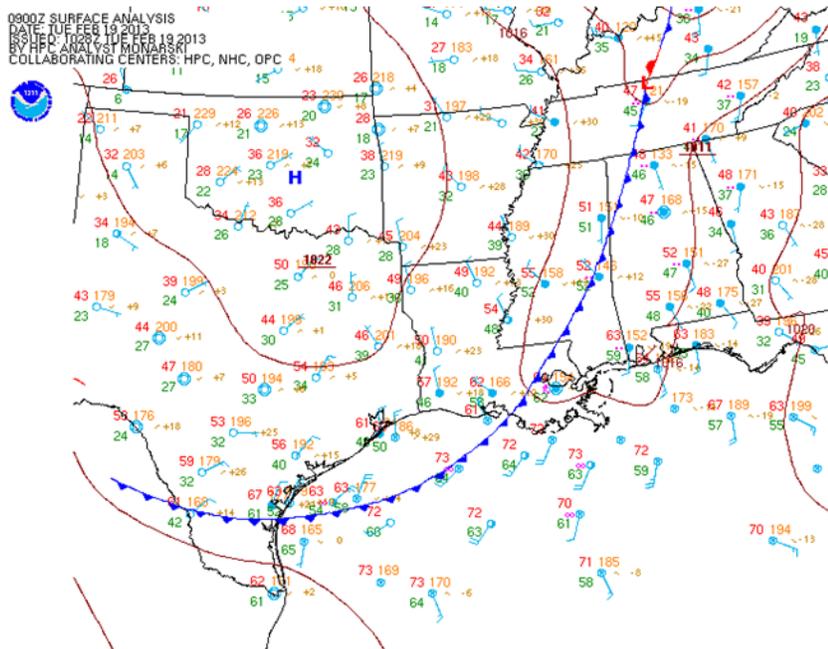
Baton Rouge Climate Summary—February 2013

*Prepared by: Jay Grymes

(based on available preliminary data as of March 11, 2013)



Feb 15: A “dry” front moved from NW to SE through the region, resulting in a wind shift but producing no rain and little in the way of cloud cover.

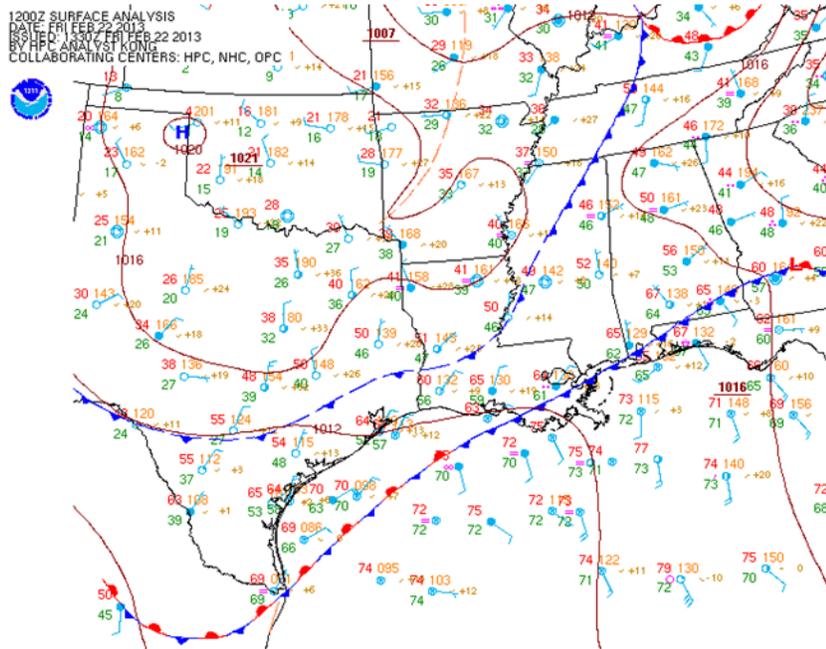


Feb 19: Pre-frontal and frontal rains associated with an advancing cold front early on Feb 19th generated nearly 1.5” of rain for Metro AP

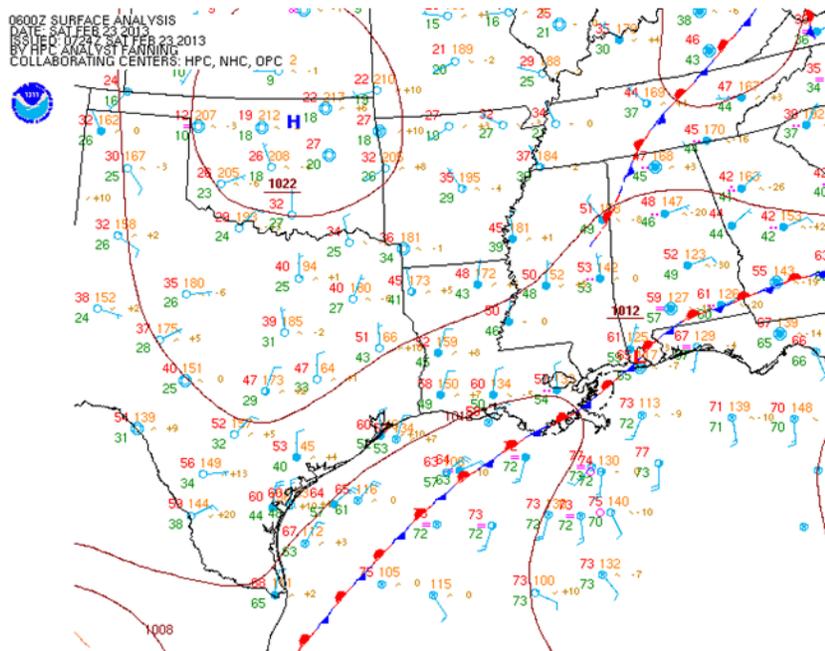
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Feb 21-22: A “dry” warm front lifted out of the Gulf on the 21st, followed by a cold front passage early on the 22nd. Metro AP recorded 0.36” of rain while in the “warm sector,” but no rain fell at that location as the cold front passed by. However, strong thunderstorms developed behind the front as it became stationary over the southeast coastal parishes, delivering more than 0.5” of rain to Metro AP and prompting two Severe Thunderstorm Warnings for EBR Parish on the evening of the 22nd.

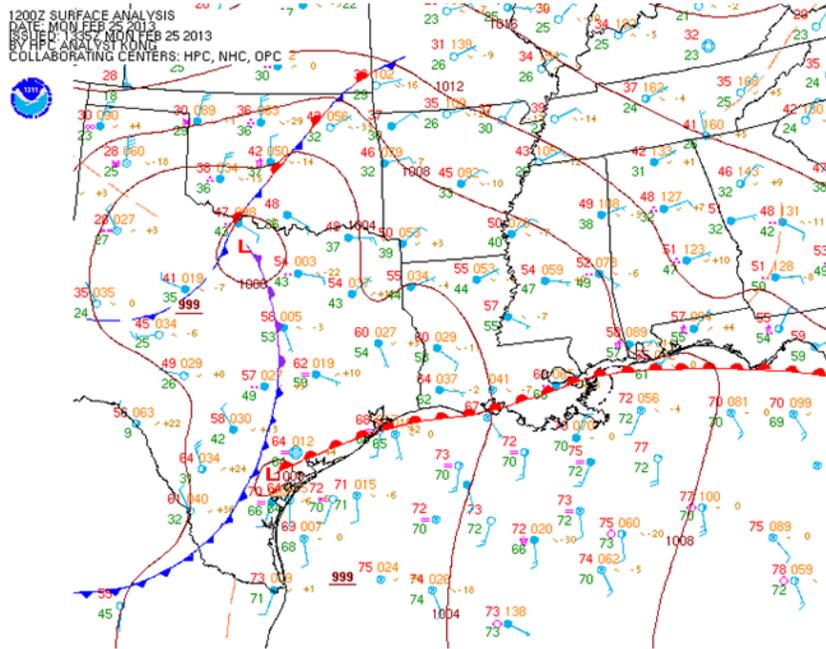


Feb 23: The stalled front lingered over the southeastern parishes from Feb 22-23 before finally moving to the east and southeast early on the 24th.

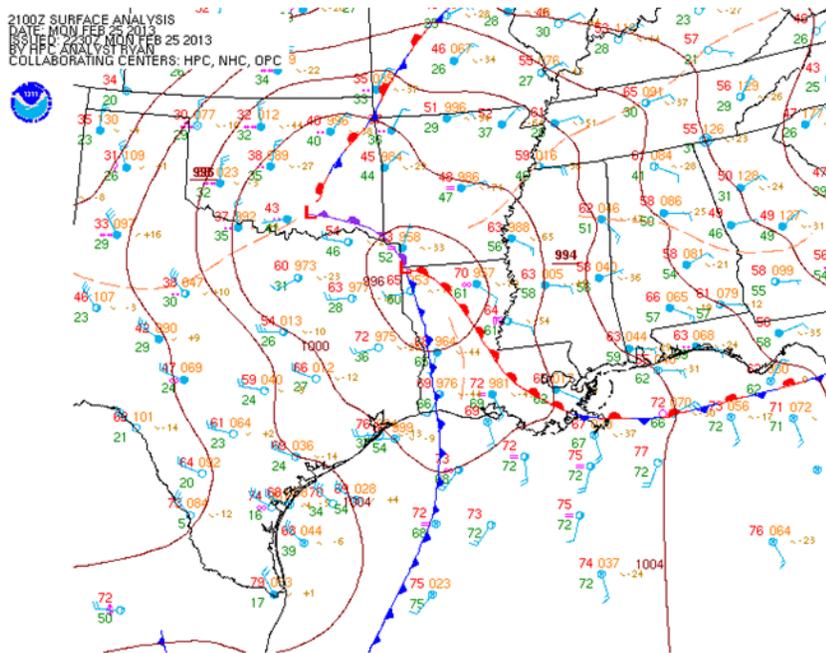
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Feb 24-25: A warm front lifting out of the Gulf linked with an east-bound cold front over central Texas late on the 24th and into the morning of the 25th. The region was placed under a Severe Thunder-storm Watch through the early morning hours of the 25th, and Metro AP recorded more than 1" of rain during the period.

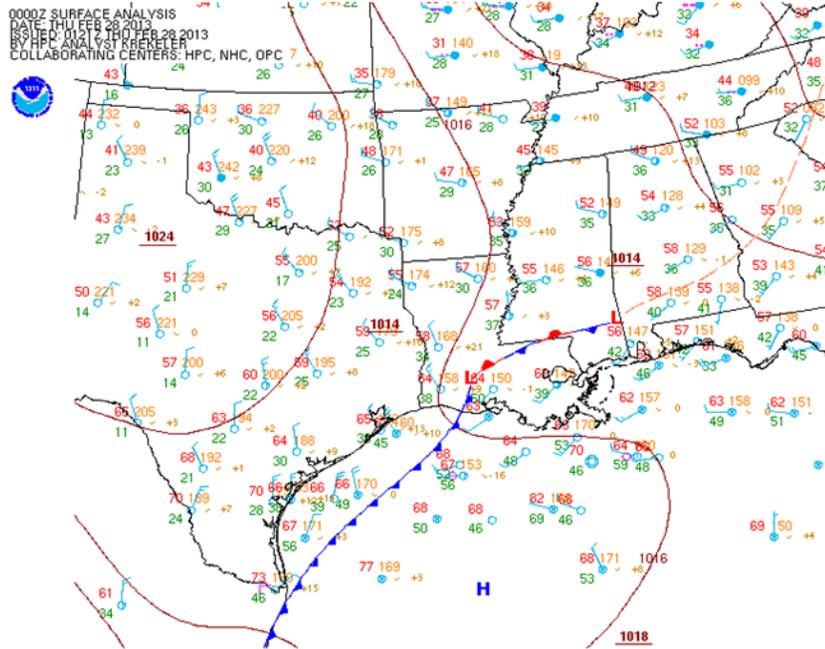


Feb 25 (continued): A Tornado watch was in effect for the region from 12:31 - 7:48pm. While afternoon and evening rains on the 25th accounted for less than 0.2" at Metro AP, a cluster of strong afternoon t-storms produced large hail in northern Ascension and western Livingston parishes, with rain totals in excess of 2" to 3" reported by a number of metro area locations.

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Feb 28: February closed with yet another “dry” front sliding through the state late on the 27th.

*Jay Grymes, LSU AgCenter Climatologist and WAFB Chief Meteorologist, provides the climatology portion of this report as a free service to DEQ and the citizens of Louisiana.