

Guidance for Annual Average Throughput and Annual Average Heat Content

1. The spreadsheet available for download has an incorrect header on the process tab. It has Heat Content Annual Total (MMBtu) when it should match the web application and show Annual Average Heat Content (MMBtu).
2. **Annual Average Throughput** is a measurable factor or parameter that relates directly or indirectly to the emissions of an air pollution source during the period for which emissions are reported.
 - a. Depending on the SCC, the throughput may refer to the amount of fuel combusted, raw material processed, product manufactured, or material handled or processed over a specific period of time.
 - b. Throughput is typically the value that is multiplied against an emission factor to generate an emissions estimate.
 - c. Common units include lb/hr, tons/day, MMscf/yr, etc.
 - d. The throughput for a combustion process should typically be the amount of fuel used by the combustion device, i.e., 2200 gallons/year. The throughput should not be the heat content or MMBtu/year or MMBtu/hr.
 - e. For combustion processes, you should not report MMBtu/year or MMBtu/hr as the annual average throughput. We want to see the amount of fuel.
3. **Annual Average Heat Content** is the amount of thermal heat energy in a solid, liquid, or gaseous fuel. It is required for SCCs on a combustion device.
 - a. For Emission Inventory purposes, the annual average heat content is the heat content for the amount of fuel reported in the Annual Average Throughput, i.e., 40 MMBtu/2200 gallons of fuel used during the reporting period.
 - b. Fuel heat content is typically expressed in units of Btu/lb of fuel, Btu/gal of fuel, etc.
 - c. Btu/hr is a unit of power. It is the measure of energy over a specific time period. It is not the heat content.
 - d. For combustion processes, do not report MMBtu/year or MMBtu/hr. The heat content is expressed as MMBtu/the reported Average Annual Throughput.
 - e. Heat content is commonly expressed as MMBtu/ton of coal, 1000 Gals of oil, or million SCF gas.