Common Fuel Consumption/Heat Input Conversion Factors for Calendar Year Annual Emissions Reporting:

- SLEIS automatically defaults to throughput units of measurement that are consistent with the emission factor units of measurement for any given emission unit. Even though the math is just straight multiplication, the units of measurement **must** be the same for the calculation to be correct. For example:
    - If the emission factor is expressed lbs/gallon, then the throughput units must be in gallons/yr;
    - If the emission factor is expressed in lbs/ton, then the throughput units must be in tons/yr, etc.
- If you attempt to change the throughput units of measurement in SLEIS, you must also change your emissions factor units of measurement, as well as supply the new emission factors themselves, and these changes must be supported with backup documentation, properly attached to your SLEIS submittal as explained in the tutorial video.
- It is far easier to avoid these complications by simply converting the fuel consumption/heat input data you have collected to units consistent with the defaults provided by SLEIS which are derived directly from your permit.
- The table below provides the majority of fuel conversion references you will need for most sources regulated by the NDEP.

Conversion Information and Heat Content of Certain Fuels			
Fuel Type	**Heat Content**	**Units: Btu's**	**Units: MMBtu's**
Natural Gas	1 Therm = 100 scf	104,000 Btu's/Therm	0.104 MMBtu's/Therm
#2 Diesel	140,000	Btu's/Gallon	0.14 MMBtu's/Gallon
#6 or Residual Oil	150,000	BTU's/Gallon	0.15 MMBtu's/Gallon
Coal (low sulfur bituminous)	13.500	Btu's/Pound	0.0135 MMBtu's/Pound
Gasoline	130,000	Btu's/Gallon	0.13 MMBtu's/Gallon
Propane (as gas)	2,522	Btu's/Standard Cubic Foot (scf)	0.00252 MMBtu's/scf
Propane (as liquid)	91,500	BTU's/Gallon	0.0915 MMBtu's/Gallon