













NC (No change)

Note: Totals may not sum due to independent rounding. Parentheses indicate negative values.











## 6.5. Constants, Units, and Conversions

### Metric Prefixes

Although most activity data for the United States is gathered in customary U.S. units, these units are converted into metric units per international reporting guidelines. Table A- 239 provides a guide for determining the magnitude of metric units.

**Table A- 239: Guide to Metric Unit Prefixes**

Prefix/Symbol	Factor
atto (a)	$10^{-18}$
femto (f)	$10^{-15}$
pico (p)	$10^{-12}$
nano (n)	$10^{-9}$
micro ( $\mu$ )	$10^{-6}$
milli (m)	$10^{-3}$
centi (c)	$10^{-2}$
deci (d)	$10^{-1}$
deca (da)	10
hecto (h)	$10^2$
kilo (k)	$10^3$
mega (M)	$10^6$
giga (G)	$10^9$
tera (T)	$10^{12}$
peta (P)	$10^{15}$
exa (E)	$10^{18}$

### Unit Conversions

1 kilogram = 2.205 pounds  
1 pound = 0.454 kilograms  
1 short ton = 2,000 pounds = 0.9072 metric tons  
1 metric ton = 1,000 kilograms = 1.1023 short tons

1 cubic meter = 35.315 cubic feet  
1 cubic foot = 0.02832 cubic meters  
1 U.S. gallon = 3.785412 liters  
1 barrel (bbl) = 0.159 cubic meters  
1 barrel (bbl) = 42 U.S. gallons  
1 liter = 0.001 cubic meters

1 foot = 0.3048 meters  
1 meter = 3.28 feet  
1 mile = 1.609 kilometers  
1 kilometer = 0.622 miles

1 acre = 43,560 square feet = 0.4047 hectares = 4,047 square meters  
1 square mile = 2.589988 square kilometers

To convert degrees Fahrenheit to degrees Celsius, subtract 32 and multiply by  $5/9$

To convert degrees Celsius to Kelvin, add 273.15 to the number of Celsius degrees



Natural Gas (Btu/Cubic foot)	1,027
<b>Liquid Fuels (Million Btu/Barrel)</b>	
Crude oil	5.800
Natural gas liquids and LRGs	3.777
Other liquids	5.825
Motor gasoline	5.218
Aviation gasoline	5.048
Kerosene	5.670
Jet fuel, kerosene-type	5.670
Distillate fuel	5.825
Residual oil	6.287
Naphtha for petrochemicals	5.248
Petroleum coke	6.024
Other oil for petrochemicals	5.825
Special naphthas	5.248
Lubricants	6.065
Waxes	5.537
Asphalt	6.636
Still gas	6.000
Misc. products	5.796

Note: For petroleum and natural gas, *Annual Energy Review 2006* (EIA 2007b). For coal ranks, *State Energy Data Report 1992* (EIA 1993). All values are given in higher heating values (gross calorific values).

## References

EIA (2007a) *Emissions of Greenhouse Gases in the United States 2006, Draft Report*. Office of Integrated Analysis and Forecasting, Energy Information Administration, U.S. Department of Energy, Washington, DC. DOE-EIA-0573(2006).

EIA (2007b) *Annual Energy Review 2006*. Energy Information Administration, U.S. Department of Energy, Washington, DC. DOE/EIA-0384(2006). June 2007.

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EIA (1993) *State Energy Data Report 1992*, DOE/EIA-0214(93), Energy Information Administration, U.S. Department of Energy. Washington, DC. December.







WIP  
WMO  
ZEVs

Waste In Place  
World Meteorological Organization  
Zero Emissions Vehicles





