

Key Unit Conversions

United States Standard Measures

1 dry pint = 0.55 liter

1 dry quart = 1.101 liters

1 bushel = 35.238 liters

1 liter = 1.816 dry pints

1 liter = 0.908 dry quart

1 decaliter = 0.283 bushel

12 inches = 1 foot

3 feet = 1 yard

5280 feet = 1 mile

2 pints = 1 quart

4 quarts = 1 gallon

2000 pounds = 1 short ton

16 ounces = 1 pound

43,560 square feet = 1 acre

Miscellaneous

1 gram = 15.432 troy grains = 0.032 troy ounce = 0.035 avoirdupois ounce

1 degree Celsius = 33.8 degrees Fahrenheit

1 degree Fahrenheit = -17.2 degrees Celsius

$$T_{(°F)} = \frac{9}{5}T_{(°C)} + 32$$

$$T_{(°C)} = \frac{5}{9}(T_{(°F)} - 32)$$

1 degree Celsius = 274.15 Kelvins

1 Kelvin = -272.15 degrees Celsius

$$T_{(K)} = T_{(°C)} + 273.15$$

$$T_{(°C)} = T_{(K)} - 273.15$$

1 cm = 0.0397 inch

1 in = 2.54 cm

1 kilometer = 0.621 mile

1 mile = 1.609 kilometers

1 nautical mile = 6080.27 feet = 1.852 kilometers

1 light-year = 300,000 kilometers

1 long ton = 1.12 short tons = 1.016 metric tons

1 short ton = 0.8928 long ton = 0.9071 metric ton

1 metric ton = 0.984 long ton = 1.1024 short tons

1 acre = 0.004047 square kilometer = 4047 square meters

1 square meter = 0.00247 acre = 1.196 square yards

1 square mile = 640 acres

1 British Imperial gallon = 4.545 liters

1 liter = 0.264 U.S. gallon

1 U.S. gallon = 3.785 liters

1 U.S. bushel = 2150.42 cubic inches

1 British Imperial bushel = 2219.36 cubic inches

1 cubic inch = 16.387 cubic centimeters

1 cubic centimeter = 0.061 cubic inch

1 cubic foot = 0.0283 cubic meter

1 cubic meter = 35.314 cubic feet

1 cubic yard = 0.764 cubic meter

1 cubic meter = 1.307 cubic yards