

# Measurement Conversion Factors

GENERAL	
One Acre	43,560 Square Feet or 0.405 Hectares
One Hectare	2.471 Acres
One Gallon per Acre	9.35 Liters per Hectare
One Mile	5,280 Feet or 1610 Meters or 1.61 Kilometers
One Gallon	128 Fluid Ounces or 8 Pints or 4 Quarts
One Gallon	3.79 Liters or 0.83 Imperial Gallons
One Pound per Square Inch (PSI)	0.070 kg/cm <sup>2</sup>
One Pound per Square Inch (PSI)	6.895 kPa (Kilopascal)
One Pound	454 Kilogram
One Inch	2.54 Centimeters
AREA MEASURE	
144 Square Inches	1 Square Foot
9 Square Feet	1 Square Yard
30 1/4 Square Yards	1 Square Rod
160 Square Rods	1 Acre
1 Acre	43,560 Square Feet
640 Acres	1 Square Mile
1 Square Mile	1 Section (of Land)
1 Rod	16.5 Feet
LINEAR MEASURE	
12 Inches	1 Foot
3 Feet	1 Yard
5 1/2 Feet	1 Rod
40 Rods	1 Furlong
8 Furlongs	1 Mile
1 Mile	5,280 Feet = 320 Rods
LIQUID MEASURE	
1/16 Pint	1 Ounce
4 Ounces	1 Gill
4 Gills	1 Pint = 16 Ounces
2 Pints	1 Quart = 32 Ounces
4 Quarts	1 Gallon
31 1/2 Gallons	1 Barrel
31 1/2 Gallons	126 Quarts
HEAD	
1 Pound per Square Inch (PSI)	2.31 Feet of Water 2.04 Inch Mercury
1 Foot of Water	0.433 Pounds per Square Inch 0.885 Inch Mercury
1 Inch of Mercury	1.132 Foot of Water
1 Kilogram per Square centimeter	14.22 Pounds per Square Inch
1 Atmosphere (at Sea Level)	14.7 Pounds per Square Inch 33.9 Feet of Water 10.35 Meters of Water
1 Meter of Water	3.28 Feet of Water
WEIGHT OF SOLUTION	
SPECIFIC GRAVITY	CONVERSION FACTORS
7.0 Pounds per Gallon	.84 1.09
8.0 Pounds per Gallon	.96 1.02
8.34 Pounds per Gallon – Water	1.00 1.00
9.0 Pounds per Gallon	1.08 .96
10.0 Pounds per Gallon	1.20 .91
11.0 Pounds per Gallon	1.32 .87
12.0 Pounds per Gallon	1.44 .83
14.0 Pounds per Gallon	1.68 .77
16.0 Pounds per Gallon	1.92 .72
18.0 Pounds per Gallon	2.16 .68
20.0 Pounds per Gallon	2.40 .65
Imperial Gallon	1.20 USA Gallons

VOLUME	
1 US Gallon	231 Cubic Inches 0.137 Cubic Feet 3.785 Liters .00379 Cubic Meters 0.833 Imperial Gallon
1 Imperial Gallon	1.2 US Gallons 277.274 Cubic Inches
1 Cubic Foot	1728 Cubic Inches 7.481 US Gallons 0.0283 Cubic Meter
1 Liter	0.2642 US Gallon
1 Cubic Meter	35,314 Cubic Feet 264.2 US Gallons
1 Acre Foot	43,560 Cubic Feet 325,829 US Gallons
1 Acre Inch	3,630 Cubic Feet 27,100 US Gallons
1 Barrel (Oil)	42 US Gallons
METRIC CONVERSION	
LINEAR MEASURE	
1 Centimeter	0.3937 Inches
1 Inch	2.54 Centimeters
1 Decimeter	3.937 Inches or 0.328 Feet
1 Foot	3.048 Decimeters
1 Meter	39.37 Inches or 1.0936 Yards
1 Yard	0.9144 Meter
1 Dekameter	1.9884 Rods
1 Rod	0.5029 Dekameter
1 Kilometer	0.62137 Mile
1 Mile	1.6093 Kilometers
SQUARE MEASURE	
1 Square Centimeter	0.1550 Square Inch
1 Square Inch	6.452 Square Centimeters
1 Square Decimeter	0.1076 Square Foot
1 Square Foot	9.2903 Square Decimeter
1 Square Meter	1.196 Yards
1 Square Yard	0.8361 Square Meter
1 Acre	160 Square Rods
1 Square Rod	0.00625 Acre
1 Hectare	2.47 Acres
1 Acre	0.4047 Hectare
1 Square Kilometer	0.386 Square Mile
1 Square Mile	2.59 Square Kilometers
MEASURE OF VOLUME	
1 Cubic Centimeter	0.061 Cubic Inch
1 Cubic Inch	16.39 Cubic Centimeters
1 Cubic Decimeter	0.0353 Cubic Foot
1 Cubic Foot	28.317 Cubic Decimeters
1 Cubic Yard	0.7646 Cubic Meter
1 Stere	0.2759 Cord
1 Cord	3.624 Steres
1 Liter	0.908 Quart Dry or 1.0567 Quarts Liquid
1 Quart Dry	1.101 Liters
1 Quart Liquid	0.9463 Liter
1 Dekaliter	2.6417 Gallons or 1.135 Pecks
1 Gallon	0.3785 Dekaliter
1 Peck	0.881 Dekaliter
1 Hektoliter	2.8375 Bushels
1 Bushel	0.3525 Hektoliter
WEIGHTS	
1 Gram	0.03527 Ounce
1 Ounce	28.35 Grams
1 Kilogram	2.2046 Pounds
1 Pound	0.4536 Kilogram
1 Metric Ton	0.98421 English Ton
1 English Ton	1.016 Metric Ton