

**METRIC SYSTEM CONVERSION FACTORS\***

Area Equivalents

One acre	=	43,560 square feet
	=	160 square rods (rd)
	=	0.405 hectares (ha)
	=	4840 square yards
	=	100 square meters
One hectare (ha)	=	100 are = 2.741 acres

Liquid Equivalents

One U.S. gallon	=	4 qt. = 8 pt. = 16 cups
	=	3.785 liters
	=	128 fluid ounces (oz.)
	=	231 cu inch
	=	8.3370 pounds of water
	=	3785.4 cu cm
One quart (qt)	=	0.9463 liters = 2 pints (pt.) = 32 fl. oz.
	=	4 cups = 64 tablespoons (Tbs.)
One Tbs	=	14.8 ml = 3 teaspoons (ts.) = 0.5 fl. oz.
One U.S. fluid ounce (oz.)	=	29.57 ml = 2 Tbs.
One British fluid ounce	=	28.41 ml

Temperature Equivalents

Degrees Centigrade	=	$(/F - 32) \times 5/9$
Degrees Fahrenheit	=	$(/C \times 9/5) + 32$

Length Equivalents

Centimeter (cm)	=	0.394 inch
Meter	=	3.28 feet = 39.4 inches
Kilometer	=	0.621 statute mile
Inch	=	2.54 cm
Foot	=	30.48 cm
Yard	=	0.914 meters
Rod	=	16.5 ft = 5.029 meters
Statute mile	=	1760 yards = 1.61 kilometers

Pressure Equivalents

1 pound per square inch (psi)	=	6.9 kPa
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Weight Equivalents

One pound (avdp) (16 ounces)	=	453.6 grams
One short or net ton (2000 pounds)	=	0.907 metric tons
One long or gross ton (2240 pounds)	=	1.016 metric tons
Milligrams (mg)	=	$10^3$ grams (g)
Microgram ( $\mu$ g)	=	$10^6$ grams
Nanogram	=	$10^9$ grams
Picograms	=	$10^{12}$ grams
1 mg/g	=	1000 ppm
1 $\mu$ g/g	=	1 ppm
1 nanogram/g	=	1 ppb
1 picogram/g	=	1 ppt
1 mg/kg or 1 mg/L	=	1 ppm
1 $\mu$ g/kg or 1 $\mu$ g/L	=	1 ppb

Conversions

	Multiply by to obtain	
foot candle	10.764	lux
gal (US)	3785	cubic centimeters
gal (US)	3.785	liters
gal (US)	0.83	gal. (Imperial)
gal	128	fluid ounces
gal/min	$2.228 \times 10^3$	cu ft/sec
gal/acre	9.354	L/ha
hectares	2.471	acres (US)
kilograms	2.205	pounds
kg/ha	0.892	lb/acre
liters	0.0353	cu ft
liters/ha	0.107	gal/acre
meters	3.281	feet
miles/hr	88	ft/min
miles/hr	1.61	km/hr
ounces (fluid)	29.573	milliliters
ounces	28.35	grams
pounds	453.59	grams
psi	6.9	kilopascals
lb/gal	0.12	kg/L
lb/sq inch	0.070	1 kg/cm <sup>2</sup> (atm)
lb/1000 sq ft	0.489	kg/acre
lb/acre	1.12	kg/ha
square inch	6.452	cm <sup>2</sup>
yards	0.9144	meters
parts per million (ppm)	2.719	lb ai/acre foot of water

\*Conversion factors were taken from the "Herbicide Handbook of the Weed Science Society of America",