Conversion Tables

To Convert	Multiply By	To Obtain
Acres	43,560	Sq. feet
Acres	0.00405	Sq. kilometer
Acres	4047	Sq. meter
Acres	4840	Sq. yards
Acre-feet	325,851	Sq. feet
Acre-feet	43560	Cu. feet
Acre-feet	1233.5	m (cubed)
Bar	14.5	Lb/sq.in.
Bar	1019.7	g/cm (cubed)
Bar	29.53	inches Hg at 0 degrees C
Bushels (dry)	0.03524	msquared
Centimeters (cm)	0.03281	Feet
Centimeters	0.3937	Inches
Centimeters	0.1094	Yards
Centimeters	0.01	Meters
Centimeters	10	Millimeters (ml)
cm/sec	1.9685	ft/min
cm/sec	0.0223694	MPH
cm (cubed)	0.0610237	inch (cubed)
Cubic feet	0.0283	Cu. meter
Cubic feet	7.4805	Gallons
Cubic feet	1728	Cubic inches
Cubic feet	0.037	Cubic yards
Cup	8	fl oz
Feet (ft)	30.48	Centimeters
Feet	0.3048	Meters
Feet per minute	0.01136	MPH
Feet head of water	0.433	PSI
Foot candle	10.764	Lux
Gallons (gal)	3.785	Liters
Gal	3785	Millimeters
Gal	128	Ounces (liquid)
Gal/acre	9.354	Liters/hectare
Gal/acre	2.938	Oz/1000 ftsquared (liquid)
Gal/1000 ftsquared	4.0746	L/100 msquared
Gal/minute	2.228 x 10 (-3)	Cubic feet/second
Grams (g)	0.002205	Pounds
Gram	0.035274	oz
G/ha	0.000893	lbs/a
Grams per liter	1000	PPM
Grams per liter	10	Percent
Grams/sq.meter	0.00020481	lb/sq.feet

G/cm (cubed)	0.036127	lb/in (cubed)
G/cm (cubed)	62.428	lb/ft (cubed)
Hectares (ha)	2.471	Acres
Inches	2.540	Centimeters
Inches	0.0254	Meters
Inches	25.40	Millimeters
Insquared	6.4516	cmsquared
In (cubed)	16.3871	cm (cubed)
Kilograms (kg)	2.2046	Pounds
Kg/hectare	0.892	Pounds/acre
Kg/ha	0.02048	lb/1000 ftsquared
Kg/L	8.3454	lb/gal
Kilometers (Km)	100,000	Centimeters
Kilometers	3281	Feet
Kilometers	1000	Meters
Kilometers	0.6214	Miles
Kilometers	1094	Yards
Km/h	0.62137	MPH
Km/h	54.6807	ft/min
Kilopascals (kPa)	0.145	Pounds/sq.in. (psi)
Liters (l)	0.2642	Gallons
Liters	33.814	Ounces
Liters	2.113	Pints
Liters	1.057	Quarts
L/100 msquared	0.2454	gal/1000 ftsquared
Liters/hectare	0.107	Gallons/acre
Meters (m)	3.281	Feet
Meters	39.37	Inches
Meters	1.094	yards
Meters	100	Centimeters
Meters	0.001	Kilometers
Meters	1000	Millimeters
Meters/sec	2.2369	MPH
Msquared	10.764	ftsquared
M (cubed)	35.3147	ft (cubed)
M (cubed)	1.30795	yd (cubed)
Miles (statute)	160,900	Centimeters
Miles	5280	Feet
Miles	1.609	Kilometers
Miles	1760	Yards
Miles/hour (mph)	1.467	Feet/second
Miles/hour	88	Feet/minute
Miles/hour	1.61	Kilometers/hour
Miles/hour	0.447	meter/second

Milliliters (ml)	0.0338	Ounces (fluid)
Milliliters	0.0002642	Gallons
Millimeters (mm)	0.03937	Inches
1 mm Hg @ 0 C	0.13332	kPa
Ounces (fluid)	0.02957	Liters
Ounces (fluid)	29.573	Milliliters
Ounces (weight)	28.35	Grams
Parts per million (ppm)	2.719	lb ai/acre foot of water
PPM	0.001	Grams/l
PPM	8.34	Lb/million gal
PPM	1	mg/kg
PPM	0.013	Ounces/100 gal of water
PPM	0.3295	Gal/acre-foot of water
PPM	8.345	lbs/million gal of water
Percent (%)	10	g/kg
Pint	0.473	liter
pt/A	1.1692	L/ha
pt/A	0.3673	oz/1000 ftsquared

Pounds	0.4536	Kilograms
Pounds	453.6	Grams
Pounds/acre	1.12	Kg/hectare
Pounds/A	0.02296	lb/1000 ftsquared
Pounds/sq.ft.	4883	Grams/sq.meter
Pounds/1000 ftsquared	43.5597	lb/A
Pounds/yd (cubed)	0.0005937	G/cm (cubed)
Pounds/gallon	0.12	Kg/liter
PSI (lbs/sq.in.)	6.9	Kilopascals
PSI	0.06895	Bar
PSI	0.068046	atm
PSI	2.31	feet head of water
PSI	6.89	kPa
Quarts	0.9463	Liters
Qt/A	2.3385	L/ha
Qt/A	0.7346	oz/1000 ftsquared
Sq. centimeters	0.001076	Sq. feet
Sq. centimeters	0.1550	Sq. inches
Sq. feet	929	Sq. centimeters
Sq. feet	0.0929	Sq. meters
Sq. feet	9.294 x 10 (-6)	Hectares
Sq. inch	6.452	Sq. centimeters
Ton (2000 lbs)	907	kg
Yards	91.44	Centimeters
Yards	0.9144	Meters
Yards	914.4	Millimeters

yd (cubed)	27	ft (cubed)
yd (cubed)	0.7645	m (cubed)

Area Equivalents
1 acre = 43,560 ft squared = 4840 yd 2 = 0.4047 hectares = 160 rods squared = 4047 m 2 = 0.0016 sq. mile
1 acre-inch = 102.8 m 3 = 27,154 gal = 3630 ft 3
1 hectare (ha) = 10,000 m 2 = 100 are = 2.471 acres = 107,639 ft squared
1 cubic foot (ft 3) = 1728 in 3 = 0.037 yd 3 = 0.02832 m 3 = 28,320 cm 3
1 square foot (ft 2) = 144 in 2 = 929.03 cm 2 = 0.09290 m 2
1 square yard (yd 2) = 9 ft 2 = 0.836 m 2
1 cubic yard (yd 3) = 27 ft 3 = 0.765 m 3

Units	**Sq. In.**	**Sq. Ft.**	**Sq Yd.**	**Sq. cm**	**Sq. m**
Sq. In.	1	0.006944	0.0007716	6.452	0.000645
Sq. Ft.	144	1	0.1111	929	0.0929
Sq Yd.	1296	9	1	8361	0.8361
Sq. cm	0.155	0.001076	0.0001196	1	0.0001
Sq. m	1550	10.76	1.196	10,000	1

Liquid Equivalents
1 ft (cubed) of water = 7.5 gal = 62.4 lbs. = 28.3 liters
1 acre-inch of water = 27,154 gal = 3630 ft 3
1 liter (l) = 2.113 pts. = 1000 ml = 1.057 qts. = 33.8 fl.oz. = 0.26 gal
1 US gallon=4 qt.=8 pt. = 16 cups = 128 fl.oz. = 8.337 lbs of water = 3.785 L = 3785 ml = 231 in 3 = 256 tbsp. = 0.1337 ft3
1 quart = 0.9463 liters = 2 pt. = 32 fl. oz. = 4 cups = 64 tablespoons (tbsp.)=57.75 in 3 = 0.25 gal = 946.4 ml
1 pint = 16 fl. oz. = 2 cups = 473.2 ml = 32 level tablespoons = 0.125 gal = 0.5 qt
1 cup = 8 fl. oz. = = ½ pt. = 16 tablespoons = 236.6 ml
1 tablespoon = 14.8 ml = 3 teaspoons (tsp.) = 0.5 fl.oz.
1 milliliter (ml) = 1 cm 3 = 0.34 fl.oz. = 0.002 pts
1 teaspoon = 4.93 ml = 0.1667 fl. oz. = 80 drops
1 US fluid ounce = 29.57 ml = 2 tablespoons = 6 tsp. = 0.03125 qt

Temperature Equivalents
degrees Centigrade = (°F-32)x5/9
degrees Fahrenheit = (°Cx9/5)+32

Pressure Equivalents

1 lb per square inch (PSI) = 6.9 kilopascal (kPa)
1 PSI = 2.31 feet head of water

Units	Dyne	Lb.	Newton
Dyne	1	2.248x10-6	10-5
Lb.	444,823	1	4.448
Newton	100,000	0.2248	1

Length Equivalents
centimeter (cm) = 0.3937 inch = 0.01 m = 0.03281 ft.
meter (m) = 3.28 feet = 39.4 inches = 100 cm = 1.094 yds = 1000 mm
kilometer = 0.621 statute mile = 1000 meters = 100,000 cm = 3281 ft = 39,370 in.
inch = 2.54 cm = 25.4 mm = 0.0254 m = 0.08333 ft.
foot = 0.3048 meters = 30.48 cm = 12 inches
yard = 0.9144 meters = 3 feet = 36 inches = 91.44 cm
statute mile = 1760 yards = 5280 feet = 1.61 kilometers = 1609 meters

Mixture Ratios
1 mg/g = 1000 ppm
1 fl.oz./gal = 7490 ppm
1 fl.oz./100 gal = 75 ppm
1 pt/100 gal = 1 teaspoons/1gal
1 qt/100 gal = 2 tablespoons/1 gal

Flow
1 gpm = 0.134 ft 3 /minute
1 ft (cubed) /min. (cfm) = 449 gal/hr. (gph) = 7.481 gal/min.

Weight Equivalents
1 ton (US) = 2000 lb = 0.907 metric tons = 907.2 kg
1 metric ton = 10 6 g = 1000 kg = 2205 lb
1 lb = 16 oz = 453.6 grams (g) = 0.4536 kg
1 oz (weight) = 28.35 g = 0.0625 lb
1 gram = 1000 mg = 0.0353 oz = 0.001 kg = 0.002205 lb
milligrams (mg) = 0.001 grams
1 kilogram (kg) = 1000 grams = 35.3 oz = 2.205 lbs
microgram (mg) = 10 -6 grams = 0.001 mg
nanogram (ng) = 10 -9 grams = 0.001 micrograms (mg)
picogram = 10 -12 grams
1 ppm= 0.0001%= 0.013 fl oz in 100 gal =1 mg/kg=1 mg/L=1 mg/g= 0.379 g in 100 gal water= 8.34 x 10 -6 lb/gal=1ml/l
10 ppm = 0.001% = 10 mg/L 100 ppm = 0.01% = 100 mg/L1000 ppm = 1mg/g = 0.1% = 1000 mg/L

1 ppb = 1 mg/kg or 1 mg/L or 1 ng/g
1 ppt = 1 picogram/g
1 % = 10,000 ppm = 10g/L = 1g/100ml = 10g/kg = 1.33 oz by weight/gal water = 8.34 lbs/100 gal water

Leather Substance
The measurement of the thickness of a finished leather, in
millimeters (1 mm. = 0.03937 inch),
irons (1 iron = 1/48 inch),
ounces (1 ounce = 1/64 inch):

Inch	Ounces	Irons	Millimeters
1/64	1	0.75	0.4
1/32	2	1.5	0.8
3/64	3	2.25	1.2
1/16	4	3.0	1.6
5/64	5	3.75	2.0
3/32	6	4.5	2.4
7/64	7	5.25	2.8
1/8	8	6.0	3.2
9/64	9	6.75	3.6
5/32	10	7.5	4.0
11/64	11	8.25	4.4
3/16	12	9.0	4.8
13/64	13	9.75	5.2
7/32	14	10.5	5.6
15/64	15	11.25	6.0
1/4	16	12.0	6.4
17/64	17	12.75	6.8
9/32	18	13.5	7.2