

## Metric System Conversion Factors

### Bert McCarty

Metric Prefix Definitions (basic metric unit = 1)					
tera	=	$10^{12}$	deci	=	$10^{-1}$
giga	=	$10^9$	centi	=	$10^{-2}$
mega	=	$10^6$	milli	=	$10^{-3}$
kilo	=	$10^3$	micro	=	$10^{-6}$
hecto	=	$10^2$	nano	=	$10^{-9}$
deca	=	$10^1$	pico	=	$10^{-12}$

Metric Prefix Example (weight)						Metric Prefix Example (volume)					
1 kg	=	$10^3$ g	=	$10^6$ mg	=	$10^9$ µg	=	$10^{12}$ ng			
1 g	=	$10^{-3}$ kg	=	$10^3$ mg	=	$10^6$ µg	=	$10^9$ ng			
1 mg	=	$10^{-6}$ kg	=	$10^{-3}$ g	=	$10^3$ µg	=	$10^6$ ng			
1 µg	=	$10^{-9}$ kg	=	$10^{-6}$ g	=	$10^{-3}$ mg	=	$10^3$ ng			
1 ng	=	$10^{12}$ kg	=	$10^{-9}$ g	=	$10^{-6}$ mg	=	$10^{-3}$ µg			

Area Equivalents												
1 acre	=	43,560 ft <sup>2</sup>	=	4840 yd <sup>2</sup>	=	0.4047 hectares (ha)	=	160 rods <sup>2</sup>	=	4047 m <sup>2</sup>	=	0.0016 m <sup>-2</sup>
1 ha	=	10,000 m <sup>2</sup>	=	100 are	=	2.471 acres	=	107,639 ft <sup>2</sup>				
1 yd <sup>2</sup>	=	9 ft <sup>2</sup>	=	0.836 m <sup>2</sup>				1 yd <sup>3</sup>	=	27 ft <sup>3</sup>	=	0.765 m <sup>3</sup>
1 ft <sup>2</sup>	=	144 in <sup>2</sup>	=	929.03 cm <sup>2</sup>	=	0.09290 m <sup>2</sup>		1 m <sup>2</sup>	=	10,000 cm <sup>2</sup>		
1 ft <sup>3</sup>	=	1728 in <sup>3</sup>	=	0.037 yd <sup>3</sup>	=	0.02832 m <sup>3</sup>	=	28,320 cm <sup>3</sup>				
1 acre-inch	=	102.8 m <sup>3</sup>	=	27,154 gal	=	3630 ft <sup>3</sup>						

Liquid Equivalents								
1 gal	= 4 qt	= 8 pt	= 16 cups	= 128 fl oz	= 8.337 lb		1 barrel	= 42 gal
	= 231 in <sup>3</sup>	= 256 tbsp	= 0.134 ft <sup>3</sup>	= 3.785 L	= 3785 ml			
1 qt	= 0.9463 L	= 2 pt	= 4 cups	= 32 fl oz	= 64 tbsp	= 57.75 in <sup>3</sup>	= 946.4 ml	
1 L	= 2.113 pt	= 1000 ml	= 1.057 qt	= 33.8 fl oz	= 0.26 gal	= 0.0001 m <sup>2</sup>	= 1,000 cm <sup>3</sup>	
1 pt	= 16 fl oz	= 2 cups	= 473.2 ml	= 32 tbsp	= 0.125 gal	= 0.5 qt		
1 cup	= 8 fl oz	= 0.5 pt	= 16 tbsp	= 236.6 ml	1 tbsp	= 14.8 ml	= 3 tsp	= 0.5 fl oz
1 floz	= 29.57 ml	= 2 tbsp	= 6 tsp	= 0.0313 qt	1 tsp	= 4.93 ml	= 0.1667 floz	= 80 drops
1 ft <sup>3</sup> of water	= 7.5 gal	= 62.4 lb	= 28.3 L		1 ml	= 1 cm <sup>3</sup>	= 0.034 floz	= 0.002 pts

Pressure Equivalents					Temperature Equivalents				
1 mmHg	=	133.32 Pa	=	0.133 kPa	=	133,333 mPa	$^{\circ}\text{C}$	=	$(^{\circ}\text{F}-32) \times \frac{5}{9}$
1 Pa	=	$10^{-3}$ kPa	=	$10^{-6}$ mPa			$^{\circ}\text{F}$	=	$(^{\circ}\text{C} \times 9/5) + 32$
1 PSI	=	6.9 kPa	=	2.31 ft head					
1mPa	=	$10^3$ kPa	=	$10^6$ Pa	=	10 bar	=	$10.2 \text{ kg cm}^{-2}$	= $100 \text{ N cm}^{-2}$
1 atm	=	760 mmHg	=	29.92 in Hg	=	$1.013 \times 10^5$ Pa	=	1.013 bar	= 14.69 psi = 33.89 ft water
1kPa	=	0.001mPa	=	10 cm H <sub>2</sub> O	=	10 mbar	=	$1\text{J kg}^{-1}$	= 0.0099 atm = 0.145 psi

**Length Equivalents**

km	=	0.621 statute mile	=	1,000 m	=	100,000 cm	=	3,281 ft	=	39,370 in
m	=	3.28 ft	=	39.4 in	=	100 cm	=	1.094 yd	=	1,000 mm
cm	=	0.3937 in	=	0.01 m	=	0.03281 ft				
in	=	2.54 cm	=	25.4 mm	=	0.0254 m	=	0.08333 ft		
ft	=	0.3048 m	=	30.48 cm	=	12 in				
yd	=	0.9144 m	=	3 ft	=	91.44 cm				
statute mile	=	1,760 yd	=	5,280 ft	=	1.61 km	=	1609 m		

**Mixture Ratios**

1 mg g <sup>-1</sup>	=	1000 ppm	=	1 fl oz gal <sup>-1</sup>		7490 ppm	=	1 gpm	=	0.134 ft <sup>3</sup> min <sup>-1</sup>	=	0.06308 L sec <sup>-1</sup>
1 floz 100 gal <sup>-1</sup>	=	75 ppm	=	1 qt 100 gal <sup>-1</sup>		2 tbsp gal <sup>-1</sup>	=	1 ft <sup>3</sup> min <sup>-1</sup>	=	448.83 gal hr <sup>-1</sup>	=	7.481 gal min <sup>-1</sup>
1 pt 100 gal <sup>-1</sup>	=	1 tsp gal <sup>-1</sup>				1 ft <sup>3</sup> sec <sup>-1</sup>	=			448.83 gal min <sup>-1</sup>		

**Weight Equivalents**

1 ton (US)	=	2,000 lb	=	0.907 metric tons	=	907.2 kg		1 metric ton	=	10 <sup>6</sup> g	=	1,000 kg	=	2,205 lb
1 lb	=	16 oz	=	453.6 g	=	0.4536 kg		1 oz (wt)	=	28.35 g	=	0.0625 lb		
1 g	=	1,000 mg	=	0.0353 oz	=	0.001 kg	=	0.002205 lb		1 mg	=	0.001 g		
1 kg	=	1,000 g	=	35.3 oz	=	2.205 lbs		1 µg	=	10 <sup>-6</sup> g	=	0.001 mg		
ng	=	10 <sup>-9</sup> g	=	0.001 micrograms (µg)				picogram	=	10 <sup>-12</sup> g				
1% (v/v)	=	1.28 fl oz gal <sup>-1</sup>	=	1 gal 100 gal <sup>-1</sup>	=	10,000 ppm	=	10g L <sup>-1</sup>	=	1g 100ml <sup>-1</sup>	=	1.33 oz (wt) gal <sup>-1</sup>	=	8.34 lb 100 gal <sup>-1</sup>
1 ppm	=	0.0001%	=	1 mg kg <sup>-1</sup>	=	1 mg L <sup>-1</sup>	=	1 µg g <sup>-1</sup>	=	1 µl L <sup>-1</sup>	=	1 µg ml <sup>-1</sup>		
	=	0.379 g 100 gal <sup>-1</sup>	=	8.34 x 10 <sup>-6</sup> lb gal <sup>-1</sup>	=	0.013 fl oz 100 gal <sup>-1</sup>		10 ppm	=	0.001%	=	10 mg L <sup>-1</sup>		
100 ppm	=	0.01%	=	100 mg L <sup>-1</sup>				1,000 ppm	=	1 mg g <sup>-1</sup>	=	0.1%	=	1,000 mg L <sup>-1</sup>
1 ppb	=	1 µg kg <sup>-1</sup>	=	1 µg L <sup>-1</sup>	=	1 ng ml <sup>-1</sup>	=	1 ng 1,000,000,000 <sup>-1</sup>		1 ppt	=	1 picogram g <sup>-1</sup>		

**Water and Soil Calculations**

1 mmhos cm <sup>-1</sup>	=	1,000 µmhos cm <sup>-1</sup>	=	1 dS m <sup>-1</sup>	=	0.1 S m <sup>-1</sup>	=	1mS cm <sup>-1</sup>	=	10 meq L <sup>-1</sup>
1 meq L <sup>-1</sup>	=	1 mmol L <sup>-1</sup>	=	1 mol m <sup>-3</sup>						
1 meq 100g <sup>-1</sup>	=	1mmol 100g <sup>-1</sup>	=	cmol kg <sup>-1</sup>						
Electrical conductivity (mmhos cm <sup>-1</sup> or dS m <sup>-1</sup> )	x	640	=	Total dissolved salts (mg L <sup>-1</sup> or ppm)						
Total dissolved salts (mg L <sup>-1</sup> or ppm)	x	0.0016	=	Electrical conductivity (mmhos cm <sup>-1</sup> or ds m <sup>-1</sup> )						

**Energy**

1 calorie (cal)	=	4.184 Joule (J)
Joule (J)	=	1 kg m <sup>2</sup> s <sup>-2</sup>
1 kcal	=	4.184 kJ

**Decimal and Millimeter Length Equivalents**

<b>Fraction (inch)</b>	<b>Decimals (inch)</b>	<b>Millimeters</b>
<b>1</b>	<b>1.00</b>	<b>25.4</b>
15/16	0.9375	23.812
7/8	0.875	22.225
13/16	0.8125	20.638
<b>¾</b>	<b>0.75</b>	<b>19.05</b>
11/16	0.6875	17.462
5/8	0.625	15.875
9/16	0.5625	14.288
<b>½</b>	<b>0.5</b>	<b>12.70</b>
7/16	0.4375	11.112
3/8	0.3750	9.525
11/32	0.34375	8.731
5/16	0.3125	7.938
9/32	0.28125	7.144
<b>¼</b>	<b>0.25</b>	<b>6.350</b>
15/64	0.234375	5.953
7/32	0.21875	5.556
13/64	0.203125	5.159
1/5	0.200	5.08
3/16	0.1875	4.762
23/128	0.1797	4.564
11/64	0.171875	4.366
1/6	0.167	4.242
21/128	0.1641	4.168
5/32	0.15625	3.969
1/7	0.143	3.633
19/128	0.1484	3.769
9/64	0.140625	3.572
<b>⅛</b>	<b>0.1250</b>	<b>3.175</b>
7/64	0.109375	2.778
1/10	0.100	2.540
3/32	0.09375	2.381
5/64	0.078125	1.984
1/16	0.0625	1.588
3/64	0.046875	1.191
1/32	0.03125	0.794
1/64	0.015625	0.397

**Metric Conversion**

To Convert	Multiply by	To Obtain
Acres (a)	0.4047	hectare (ha)
Acres	43,560	sq. feet ( $\text{ft}^2$ )
Acres	0.00405	sq. kilometer ( $\text{km}^2$ )
Acres	4047	sq. meter ( $\text{m}^2$ )
Acres	4840	sq. yards ( $\text{yd}^2$ )
Acre-feet	325,851	sq. feet ( $\text{ft}^2$ )
Acre-feet	43560	cu. feet ( $\text{ft}^3$ )
Acre-feet	1233.5	cu. meter ( $\text{m}^3$ )
Acre-inch	102.8	$\text{m}^3$
Bar	14.5	$\text{lb/in}^2$
Bar	1019.7	$\text{g/cm}^3$
Bar	29.53	inches Hg @ $0^\circ\text{C}$
Bar	75	cm Hg @ $0^\circ\text{C}$
Bar	0.001	$\text{J/kg}$
Bar	100	kPa
Bushels - dry	0.03524	$\text{m}^2$
Bushels	1.245	$\text{ft}^3$
Calorie (cal)	4.184	Joules (J)
Centimeters (cm)	0.03281	feet (ft)
cm	0.3937	inches (in)
cm	0.1094	yards (yd)
cm	0.01	meters (m)
cm	10	millimeters (mm)
cm/sec = $\text{cm sec}^{-1}$ = cm per sec	1.9685	$\text{ft/min}$
cm/sec	0.0223694	miles per hour (MPH)
$\text{cm}^2$ (square centimeters)	0.001076	$\text{ft}^2$
$\text{cm}^2$	0.1550	$\text{in}^2$
$\text{cm}^2$	0.01	sq. decimeter
$\text{cm}^3$ (cubic centimeters)	0.0610237	$\text{in}^3$
$\text{cm}^3$	0.0338	fl oz
$\text{cm}^3$	0.001057	qt <sup>3</sup>
$\text{cm}^3$	0.000264172	gal
$\text{cm}^3$	0.001	cu. decimeter
Cup	8	fl oz
Cup	236.6	$\text{cm}^3$
Feet (ft)	30.48	cm
ft	0.3048	m
ft	305	mm
$\text{ft}^2$ (square feet)	929	$\text{cm}^2$
$\text{ft}^2$	0.0929	$\text{m}^2$
$\text{ft}^2$	$9.294 \times 10^{-6}$	hectares (ha)
$\text{ft}^2$	144	$\text{in}^2$

**Metric Conversion**

To Convert	Multiply by	To Obtain
ft <sup>3</sup> (cubic feet)	0.0283	m <sup>3</sup>
ft <sup>3</sup>	7.4805	gallons
ft <sup>3</sup>	1728	cubic inches (in <sup>3</sup> )
ft <sup>3</sup>	0.037	cubic yards (yd <sup>3</sup> )
ft <sup>3</sup>	28.32	liters (L)
ft <sup>3</sup> /1,000 ft <sup>2</sup>	0.030463	m <sup>3</sup> /100 m <sup>2</sup>
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	ml
Gal	128	ounces (liquid)
Gal	0.13368	ft <sup>3</sup>
Gal	231	in <sup>3</sup>
Gal	3,785	cm <sup>3</sup>
Gal per acre (gpa)	9.354	L/ha
gpa	0.09354	L/100 m <sup>2</sup>
gpa	2.938	oz/1,000 ft <sup>2</sup> (liquid)
Gal/1,000 ft <sup>2</sup>	4.0746	L/100 m <sup>2</sup>
Gal/minute	2.228 x 10 <sup>-3</sup>	ft <sup>3</sup> /second
Gal/min	0.06309	L/sec
Gal/min	0.227125	m <sup>3</sup> /hr
Grams (g)	0.002205	lb
Gram	0.035274	oz
g/cm <sup>3</sup>	0.036127	lb/in <sup>3</sup>
g/cm <sup>3</sup>	62.428	lb/ft <sup>3</sup>
g/ft <sup>2</sup>	96	lb/acre
g/ha	0.000893	lbs/acre
g/ha	0.014275	oz/acre
g/kg	0.10	percent (%)
g/liter	1000	PPM
g/liter	10	%
g/liter	0.00834595	lb/gal
g/liter	0.13351	oz/gal
g/m <sup>2</sup>	0.00020481	lb/ft <sup>2</sup>
g/m <sup>2</sup>	0.20481	lb/1,000 ft <sup>2</sup>
Hectares (ha)	2.471	Acres
Ha	107,639	ft <sup>2</sup>
Ha	107.64	1,000 ft <sup>2</sup>
horsepower (electrical or mechanical)	746	watts
hp	550	ft-lbs/sec
hp	33,000	ft-lbs/min

**Metric Conversion**

To Convert	Multiply by	To Obtain
hp	1.014	metric horsepower
hp	33,000	ft lbs/min
Inches (in)	2.540	cm
Inches	0.0254	m
Inches	25.40	ml
Inches of mercury	3.4	kilopascals (kPa)
in/acre	6.28	cm/ha
in/ft	0.083	mm/mm
in <sup>2</sup>	6.4516	cm <sup>2</sup>
in <sup>3</sup>	16.3871	cm <sup>3</sup>
in <sup>3</sup>	0.55411	fl oz
in <sup>3</sup>	0.01732	qt
in <sup>3</sup> /hr	0.00434	gal/hr
Joules per kilograms (J/kg)	1	kPa
kilo Pascal (kPa)	1	J/kg
kPa	1	0.01 bar
kPa	0.01	bar
Kilograms (kg)	2.2046	lb
kg/hectare	0.892	lb/acre
kg/ha	0.02048	lb/1,000 ft <sup>2</sup>
kg/100 m <sup>2</sup>	2.048	lbs/1,000 ft <sup>2</sup>
kg/L	8.3454	lb/gal
Kilometers (Km)	100,000	cm
Kilometers	3281	ft
Kilometers	1000	m
Kilometers	0.6214	miles
Kilometers	1094	yd
Km/h	0.62137	mph
Km/h	54.6807	ft/min
Kilopascals (kPa)	0.145	lbs/in <sup>2</sup> (psi)
kPa	1	0.01 bar
kPa	1	J/kg
Liters (L)	0.2642	gallons
L	33.814	fl.oz.
L	2.113	pt
L	1.057	qt
L	0.035315	ft <sup>3</sup>
L/m <sup>2</sup>	3.2808	ft <sup>3</sup> /1,000 ft <sup>2</sup>
L/100 m <sup>2</sup>	0.2454	gal/1,000 ft <sup>2</sup>
L/100 m <sup>2</sup>	1.9634	pt/1,000 ft <sup>2</sup>
Liters/hectare	0.107	gal/A
L/ha	0.0025	gal/1,000 ft <sup>2</sup>

**Metric Conversion**

To Convert	Multiply by	To Obtain
L/ha	0.314	oz/1,000 ft <sup>2</sup>
L/ha	0.855	pt/A
L/min	15.85	gal/hr
Meters (m)	3.281	ft
Meters	39.37	in
Meters	1.094	yd
Meters	100	cm
Meters	0.001	km
Meters	1000	mm
Meters/sec	2.2369	mph
M <sup>2</sup> (square meters)	10.764	ft <sup>2</sup>
M <sup>2</sup>	1,550	in <sup>2</sup>
M <sup>2</sup>	1.196	yd <sup>2</sup>
M <sup>3</sup> (cubic meters)	35.3147	ft <sup>3</sup>
M <sup>3</sup>	1.30795	yd <sup>3</sup>
M <sup>3</sup>	1,000	L
M <sup>3</sup> /ha	14.29	ft <sup>3</sup> /acre
M <sup>3</sup> /ha	0.0122	yd <sup>3</sup> /1,000 ft <sup>2</sup>
M <sup>3</sup> /ha	0.328	ft <sup>3</sup> /1,000 ft <sup>2</sup>
mil	0.001	in
mil	0.0254	mm
Miles (nautical)	1.1508	miles (statute)
Miles (nautical)	6,076	ft
Miles (statute)	160,900	cm
Miles	5280	ft
Miles	1.609	km
Miles	1760	yards
Miles per hour (mph)	1.467	ft/sec
mph	88	ft/mile
mph	1.61	km/hr
mph	0.447	m/sec
mg/kg	1	parts per million (ppm)
Milliequivalents per liter (meq/L)	1	millimoles per liter (mmol/L)
Milliequivalents per 100 g (meq/100g)	Eq. wt. x 10	parts per million (ppm)
Millimhos per centimeter (mmhos/cm)	1	decisiemens per meter (dS/m)
mmhos/cm	1,000	micromhos per centimeter ( $\mu$ mhos/cm)
Milliliters (ml)	0.0338	oz (fluid)
ml	0.0002642	gal
ml/m <sup>2</sup>	3.14	oz/1,000 ft <sup>2</sup>
ml/l	0.12793	oz/gal
ml/10,000 L	0.0128	fl oz/1,000 gal
Millimeters (mm)	0.03937	in

**Metric Conversion**

To Convert	Multiply by	To Obtain
1 mm Hg @ 0 C	0.13332	kPa
1 mm Hg	133333.3	mPa
Ounces (fluid) (oz)	0.02957	L
Ounces (fluid)	29.573	ml
Ounces (fluid)	0.03125	qt.
Oz (fluid)/gal	7.81	ml/L
Ounces (fluid)/acre	0.0731	L/ha
Ounces (fluid)/acre	73.1	ml/ha
Ounces (fluid)/1,000 ft <sup>2</sup>	3.18	L/ha
oz (weight)	28.35	g
oz (weight)	0.0625	lb
oz (weight)/acre	0.07	kg/ha
oz (weight)/acre	70	g/ha
oz (weight)/1,000 ft <sup>2</sup>	3.05	kg/ha
oz (weight)/ft <sup>2</sup>	305.15	g/m <sup>2</sup>
oz (weight)/gal	7.5	g/L
oz (weight)/1,000 ft <sup>2</sup>	0.305	g/m <sup>2</sup>
Percent (%)	10	g/kg
Pint (liquid) (pt)	0.473	liter
pt/A	1.1692	L/ha
pt/A	0.3673	oz/1,000 ft <sup>2</sup>
pt/1,000 ft <sup>2</sup>	0.50932	L/100 m <sup>2</sup>
Parts per million (ppm)	2.719	lb ai/acre foot of water
PPM	2.0	lbs/acre slice 7-in. deep
PPM	2.25	kg/ha slice 7-in. deep
PPM	0.001	g/L
PPM	8.34	lb/million gal
PPM	1	mg/kg
PPM	0.013	oz/100 gal of water
PPM	0.3295	gal/acre-foot of water
PPM	8.2897	lbs/million gal of water
Pounds (lb)	0.4536	kilograms (kg)
lb	453.6	g
lb/acre	1,120	g/ha
lb / acre	1.12	kg/ha
lb / acre	1.0413	g/100 ft <sup>2</sup>
lb / acre	0.02296	lb/1,000 ft <sup>2</sup>
lb / acre	0.112	g/m <sup>2</sup>
lb / acre-foot	0.3682	g/m <sup>3</sup>
lb / acre-foot	0.0003682	kg/m <sup>3</sup>
lb / ft <sup>2</sup>	4883	g/m <sup>2</sup>
lb / ft <sup>3</sup>	16.23	kg/m <sup>3</sup>

**Metric Conversion**

To Convert	Multiply by	To Obtain
lb /1,000 ft <sup>2</sup>	4.88	g/m <sup>2</sup>
lb /1,000 ft <sup>2</sup>	48.83	kg/ha
lb /1,000 ft <sup>2</sup>	43.5597	lb/A
lb /1,000 ft <sup>2</sup>	488	g/100 m <sup>2</sup>
lb /1,000 ft <sup>2</sup>	0.4883	kg/100 m <sup>2</sup>
lb /1,000 ft <sup>2</sup>	0.91	lbs/100 yd <sup>2</sup>
lb /1,000 ft <sup>2</sup>	1.1	lbs/1,000 ft <sup>2</sup>
lb /yd <sup>3</sup>	0.0005937	g/cm <sup>3</sup>
lb /yd <sup>3</sup>	594	g/m <sup>3</sup>
lb /yd <sup>3</sup>	0.5932	kg/m <sup>3</sup>
lb /gallon	0.12	kg/liter
lb /1,000 gal	0.12	g/1,000 L
pounds per square inch (PSI)	6.89	kilopascals (kPa)
PSI	0.06895	bar
PSI	0.068046	atmosphere (atm)
PSI	2.31	feet head of water
Quarts (qt)	0.9463	L
Quarts	946	ml
Qt/A	2.3385	L/ha
Qt/A	0.7346	oz/1,000 ft <sup>2</sup>
Qt/100 gal	2.5	ml/L
Temperature, C 1 . 8	1.8	temperature, F
Temperature, F- 32	0.5555	temperature, C
Ton (2,000 lbs)	907	kg
Ton (2,000 lbs)/acre	2240	kg/ha
Ton (2,000 lbs)	0.907	ton (metric)
Ton (2,000 lbs)/acre	2.241	ton (metric)/ha
Ton (metric)	2,205	lb
Ton (metric)	1,000	kg
Ton (metric)	1.102	ton (2,000 lb)
Yards (yd)	91.44	cm
Yards	0.9144	m
Yards	914.4	mm
square yards (yd <sup>2</sup> )	0.836	m <sup>2</sup>
yd <sup>2</sup>	9	ft <sup>2</sup>
yd <sup>2</sup>	1,296	in <sup>2</sup>
cubic yards (yd <sup>3</sup> )	27	ft <sup>3</sup>
yd <sup>3</sup>	46,656	in <sup>3</sup>
yd <sup>3</sup>	0.7645	m <sup>3</sup>
yd <sup>3</sup>	765	L
yd <sup>3</sup> /1,000 ft <sup>2</sup>	0.825	m <sup>3</sup> /100 m <sup>2</sup>
P <sub>2</sub> O <sub>5</sub>	0.437	P

**Metric Conversion**

<b>To Convert</b>	<b>Multiply by</b>	<b>To Obtain</b>
K <sub>2</sub> O	0.830	K
CaO	0.715	Ca
MgO	0.602	Mg
meq Ca <sup>+2</sup> /100 g soil	400	lb Ca <sup>+2</sup> per acre furrow slice
meq K <sup>+</sup> /100 g soil	780	lb K <sup>+</sup> per acre furrow slice
meq Na <sup>+</sup> /100 g soil	460	lb Na <sup>+</sup> per acre furrow slice
meq Mg <sup>+2</sup> /100 g soil	109	lb Mg <sup>+2</sup> per acre furrow slice
meq Fe <sup>+3</sup> /100 g soil	372	lb Fe <sup>+3</sup> per acre furrow slice
meq Zn <sup>+2</sup> /100 g soil	654	lb Zn <sup>+2</sup> per acre furrow slice
meq H <sup>+</sup> /100 g soil	20	lb H <sup>+</sup> per acre furrow slice
meq Al <sup>+3</sup> /100 g soil	180	lb Al <sup>+3</sup> per acre furrow slice
meq Ca <sup>+2</sup> /100 g soil	9.2	lb Ca <sup>+2</sup> per 1,000 ft <sup>2</sup> furrow slice
meq K <sup>+</sup> /100 g soil	18	lb K <sup>+</sup> per 1,000 ft <sup>2</sup> furrow slice
meq Na <sup>+</sup> /100 g soil	10.6	lb Na <sup>+</sup> per 1,000 ft <sup>2</sup> furrow slice
meq Mg <sup>+2</sup> /100 g soil	2.5	lb Mg <sup>+2</sup> per 1,000 ft <sup>2</sup> furrow slice
meq Fe <sup>+3</sup> /100 g soil	8.5	lb Fe <sup>+3</sup> per 1,000 ft <sup>2</sup> furrow slice
meq Zn <sup>+2</sup> /100 g soil	15	lb Zn <sup>+2</sup> per 1,000 ft <sup>2</sup> furrow slice
meq H <sup>+</sup> /100 g soil	0.46	lb H <sup>+</sup> per 1,000 ft <sup>2</sup> furrow slice
meq Al <sup>+3</sup> /100 g soil	4.1	lbs Al <sup>+3</sup> per 1,000 ft <sup>2</sup> furrow slice