

# Appendix A. Metric Conversion Factors

(updated October 2008)

Imperial Units	Conversion Factor	Metric Units
<b>LENGTH</b>		
inches	2.5	centimetres (cm)
feet	30	centimetres (cm)
feet	0.3	metres (m)
yards	0.9	metres (m)
miles	1.6	kilometres (km)
<b>AREA</b>		
square inches	6.5	square centimetres (cm <sup>2</sup> )
square feet	0.09	square metres (m <sup>2</sup> )
acres	0.40	hectares (ha)
<b>VOLUME</b>		
cubic inches	16	cubic centimetres (cm <sup>3</sup> )
cubic feet	0.03	cubic metres (m <sup>3</sup> )
cubic yards	0.8	cubic metres (m <sup>3</sup> )
fluid ounces (Imperial)	28	millilitres (mL)
pints	0.57	litres (L)
quarts	1.1	litres (L)
gallons (Imperial)	4.5	litres (L)
gallons (U.S.)	3.75	litres (L)
bushels	0.36	hectolitres (hL)
<b>WEIGHT</b>		
ounces	28	grams (g)
pounds	0.45	kilograms (kg)
short tons	0.9	tonnes (t)
<b>TEMPERATURE</b>		
Fahrenheit (°F - 32)	0.56	Celsius (°C)
<b>POWER</b>		
horsepower	750	watts (w)
	0.75	kilowatts (kw)

Imperial Units	Conversion Factor	Metric Units
oz./acre	70	g/ha
lb./acre	1.12	kg/ha
bu./acre	0.9	hL/ha
tons/acre	2.24	t/ha
fl. oz./acre	70	mL/ha
pt./acre	1.4	L/ha
qt./acre	2.8	L/ha
gal./acre	11.2	L/ha
gal./acre (US)	9.35	L/ha
plants/acre	2.47	plants/ha
oz./gal.	6.2	mL/L
lb./gal.	0.1	kg/L
oz./sq.ft.	305	g/m <sup>2</sup>
lb./sq.ft.	4.9	kg/m <sup>2</sup>
oz./ft.row	93	g/m row
lb./ft.row	1.5	kg/m row
ft./sec.	0.3	m/s
m.p.h.	1.6	km/h
p.s.i.	6.9	kPa
<p><i>To convert from imperial to metric, multiply by the conversion factor. For example: 10 inches x 2.5 = 25 centimetres</i></p> <p><i>To convert from metric to imperial, divide by the conversion factor. For example: 25 centimetres ÷ 2.5 = 10 inches</i></p> <p>Imperial Conversions:</p> <p>lb/acre x 0.0033 = oz/yd<sup>2</sup></p> <p>gal/acre x 0.033 = oz/yd<sup>2</sup></p>		

## Useful Measurements

1 Imperial gallon = 4 quarts = 8 pints = 160 fluid ounces = 10 pounds of water = approximately 1.2 U.S. gallons

1 U.S. gallon = 0.8345 or approximately 5/6 Imperial gallon = 8.3 pounds

1 Imperial pint = 20 fluid ounces = 570 mL

1 U.S. pint = 16 fluid ounces = 475 mL

1 pound = 16 ounces

1 tablespoon = 3 teaspoons = 14 mL

2 tablespoons = 1 fluid ounce = 28 mL

1 pound in 100,000 gallons of water = 1 ppm (part per million)

1 mile = 5,280 feet = 1,760 yards

1 yard = 3 feet = 36 inches

1 foot = 12 inches

1 acre = approximately 209 by 209 feet or 43,560 square feet.

1 square yard = 9 square feet

1 square foot = 144 square inches

1 mile per hour = 88 feet per minute

1 cubic yd = 27 cubic feet

1 cubic centimetre = 1 mL = 1 gram (for water)

## Parts Per Million

1 per cent = 10,000 parts per million

Imperial: 1 fl. oz./gallon = 6,250 ppm

1 gallon in 1,000,000 gallons of water = 1ppm

1 litre in 1,000,000 litres of water = 1ppm = 1 mL/1,000 L

Metric: 1 mg/litre (water) = 1 ppm

1 g/litre (water) = 1,000 ppm

1 mL/litre = 1,000 ppm

## Metric Units for Farm Sprayers

Tank Capacities				Pressures	
Imperial Gallon	Litres (L)	US Gallon	Litres	Pounds per Square Inch (PSI)	Kilopascals (kPa)
100	455	100	379	10	70
200	910	200	758	15	100
250	1,138	250	948	20	140
300	1,365	300	1,137	25	175
400	1,820	400	1,516	30	200
500	2,275	500	1,895	35	240
600	2,730	600	2,274	40	275
800	3,640	800	3,032	45	310
1,000	4,550	1,000	3,790	50	345