
The Metric System

Area

$$\begin{array}{rclcl} 100 \text{ m} & \times & 100 \text{ m} & = & 10,000 \text{ m}^2 & = & 1 \text{ hectare (ha)} \\ & & 100 \text{ ha} & = & 1 \text{ square kilometre (km}^2\text{)} & & \end{array}$$

Measures

$$\begin{array}{rcl} 1,000 \text{ millilitres (mL)} & = & 1 \text{ litre (L)} \\ 1,000 \text{ milligrams (mg)} & = & 1 \text{ gram (g)} \\ 1,000 \text{ g} & = & 1 \text{ kilogram (kg)} \end{array}$$

Weight - Volume Equivalents (for water)

$$\begin{array}{rcl} (1.00 \text{ kg}) 1,000 \text{ grams} & = & 1 \text{ litre (1.00 L)} \\ (0.001 \text{ kg}) 1 \text{ g} & = & 1 \text{ mL (0.001 L)} \\ 1 \text{ mL} & = & 1 \text{ cc} \end{array}$$

Application Rate Conversion (approximate)

Metric to Imperial (approximate)	litres per hectare	x	0.09	=	gallons per acre
	litres per hectare	x	0.36	=	quarts per acre
	litres per hectare	x	0.71	=	pints per acre
	millilitres per hectare	x	0.015	=	fluid ounces per acre
	grams per hectare	x	0.015	=	ounces per acre
	kilograms per hectare	x	0.89	=	pounds per acre
	tonnes per hectare	x	0.45	=	tons per acre
Imperial to Metric (approximate)	gallons per acre	x	11.23	=	litres per hectare (L/ha)
	quarts per acre	x	2.8	=	litres per hectare (L/ha)
	pints per acre	x	1.4	=	litres per hectare (L/ha)
	fluid ounces per acre	x	70.0	=	millilitres per hectare (mL/ha)
U.S. to Metric (approximate)	tons per acre	x	2.24	=	tonnes per hectare (t/ha)
	pounds per acre	x	1.12	=	kilograms per hectare (kg/ha)
	ounces per acre	x	70.0	=	grams per hectare (g/ha)
	gallons per acre	x	9.35	=	litres per hectare (L/ha)
Metric to U.S. (approximate)	litres per hectare	x	0.11	=	U.S. gallons per acres

Conversion Table

	Metric to Imperial		Imperial to Metric	
Area	1 hectare (ha)	= 2.5 acres	1 acre	= 0.4 ha
	4 hectares (ha)	= 10 acres	10 acres	= 4 ha
Pressure	1 kilopascal (kPa)	= 0.145 psi	1 psi	= 7 kPa
Volume (liquid)	1 litre (L)	= 0.22 gallon (Imperial)	1 gallon (Imperial)	= 4.55 L
	1 litre (L)	= 0.26 gallon (U.S.)	1 gallon (U.S.)	= 3.79 L
Weight	1 kilogram (kg)	= 2.21 pounds	1 pound	= 0.454 kg
Distance	1 kilometre (km)	= 0.62 miles	1 mile	= 1.6 km
	8 kilometres (km)	= 5 miles	5 miles	= 8 km
	1 metre (m)	= 3.3 feet	1 foot (ft)	= 0.3 m
	100 millimetres (mm)	= 4 in (approx.)	1 inch	= 25 mm

Example:

Knowing that there are 4 hectares in every 10 acres, you can find out how many hectares there are in 15 acres.

$$15 \text{ acres} \quad \times \quad \frac{4 \text{ ha}}{10 \text{ acres}} = 6 \text{ ha}$$

Example:

Knowing that there are 7 kPa in every 1 psi, you can find out how many kPa there are in 30 psi.

$$30 \text{ psi} \quad \times \quad \frac{7 \text{ kPa}}{1 \text{ psi}} = 210 \text{ kPa}$$

