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# Rothamsted Experimental Station Report for 1969 Part

ROTHAMSTED
EXPERIMENTAL STATION
REPORT FOR 1999
PART 2

HARPENDEN HERTS Nepredo 6077

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# **Conversion Factors / Conversion Tables**

## **Rothamsted Research**

Rothamsted Research (1970) *Conversion Factors / Conversion Tables ;* Rothamsted Experimental Station Report For 1969 Part 2, pp 190 - 191 - **DOI:** https://doi.org/10.23637/ERADOC-1-4

## CONVERSION FACTORS

#### Factors for the Conversion of Imperial to Metric Units

= 2.540 centimetres (cm) 1 inch (in.) 1 foot (ft) (=12 in.) = 30.48 cm = 0.9144 metre (m)1 yard (yd) (=3 ft)1 square yard (sq yd) = 0.8361 sq m= 0.4047 hectare (ha)1 acre (=4840 sq yd) = 28.35 grams (g) 1 ounce (oz) = 0.4536 kilogram (kg) 1 pound (lb) 1 hundredweight (cwt) (=112 lb) = 50.80 kg = 1016 kg = 1.016 metric tons (tonnes)1 ton (=2240 lb)= 0.5682 litre 1 pint = 4.546 litre 1 gallon (gal) (=8 pints) 1 fluid ounce = 1/20 pint = 0.02841 litre = 28.41 ml = 28.32 litre 1 cubic foot

To convert	Multiply by
oz/acre to g/ha	70-06
lb/acre to kg/ha	1.121
cwt/acre to kg/ha	125.5
cwt/acre to tonnes/ha	0-1255
tons/acre to kg/ha	2511
tons/acre to tonnes/ha	2.511
gal/acre to litre/ha	11.233

#### The following factors are accurate to about 2 parts in 100:

1 lb/acre = 1·1 kg/ha 1 gallon/acre = 11 litre/ha 1 ton/acre = 2·5 tonnes/ha

In general reading of the text there will be no great inaccuracy in regarding:

1 lb = 0.5 kg 1 lb/acre = 1 kg/ha

#### **Temperatures**

To convert °F into °C subtract 32 and multiply by  $\frac{5}{9}$  (0·556) To convert °C into °F multiply by  $\frac{9}{5}$  (1·8) and add 32

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# Factors for the Conversion of Metric to Imperial Units

		_
1 centimetre (cm)	=	0.3937 inch (in.) = $0.03281$ ft
1 metre (m)		1.094 yards (yd)
1 square metre (sq m)	=	1.196 square yards (sq yd)
1 hectare (ha)		2·471 acres
1 gram (g)	=	0.03527 ounce (oz)
1 kilogram (kg)	=	2·205 pounds (lb)
1 kg	=	0.01968 hundredweight (cwt) = $0.0009842$ ton
1 metric ton (tonne)		0.9842 ton
1 litre	=	1.760  pints = 0.2200  gallon (gal)
1 litre = 1000 millilitres (ml		35.20 fluid ounces = $0.03531$ cubic foot

To convert	Multiply by	
g/ha to oz/acre	0.01427	
kg/ha to lb/acre	0.8921	
kg/ha to cwt/acre	0.007966	
tonnes/ha to cwt/acre	7.966	
ka/ha to tons/acre	0.0003983	
tonnes/ha to tons/acre	0.3983	
litre/ha to gal/acre	0.08902	

#### Plant nutrients

Plant nutrients are best stated in terms of amounts of the elements (P, K, Na, Ca, Mg, S); the old 'oxide' terminology  $P_2O_5$ ,  $K_2O$ ,  $Na_2O$ , CaO, MgO,  $SO_3$ ) is still used in work involving fertilisers and liming since Regulations require statements of  $P_2O_5$ ,  $K_2O$ , etc.

## For quick conversions

(accurate to within 2%) the following factors may be used:

$2\frac{1}{3}\times P = P_2O_5$	$\frac{3}{7} \times P_2O_5 = P$
$1\frac{1}{5} \times K = K_2O$	$\frac{5}{6} \times \text{K}_2\text{O} = \text{K}$
$1\frac{2}{5} \times Ca = CaO$	$\frac{7}{10} \times \text{CaO} = \text{Ca}$
$1\frac{2}{3} \times Mg = MgO$	$\frac{3}{5} \times MgO = Mg$

# For accurate conversions:

To convert	Multiply by	To convert	Multiply by	
P <sub>2</sub> O <sub>5</sub> to P	0.4364	P to P2O5	2.2915	
K <sub>2</sub> O to K	0.8301	K to K <sub>2</sub> O	1.2047	
CaO to Ca	0.7146	Ca to CaO	1.3994	
MgO to Mg	0.6031	Mg to MgO	1.6581	

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