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ROTHAMSTED  
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## Yields of the Field Experiments 1989

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### Conversion Factors

#### Rothamsted Research

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ROTHAMSTED REPORT FOR 1977, PART 1

CONVERSION FACTORS

Factors for the Conversion of Imperial to Metric Units

|                                      |  |
|--------------------------------------|--|
| 1 inch (in.)                         | = 2.540 centimetres (cm)                   |
| 1 foot (ft) (=12 in.)                | = 30.48 cm                                 |
| 1 yard (yd) (=3 ft)                  | = 0.9144 metre (m)                         |
| 1 square yard (yd <sup>2</sup> )     | = 0.8361 m <sup>2</sup>                    |
| 1 acre (ac) (=4840 yd <sup>2</sup> ) | = 0.4047 hectare (ha)                      |
| 1 ounce (oz)                         | = 28.35 grams (g)                          |
| 1 pound (lb)                         | = 0.4536 kilogram (kg)                     |
| 1 hundredweight (cwt) (=112 lb)      | = 50.80 kg                                 |
| 1 ton (=2240 lb)                     | = 1016 kg = 1.016 metric tons (tonnes) (t) |
| 1 pint                               | = 0.5682 litre (l)                         |
| 1 gallon (gal) (=8 pints)            | = 4.546 litres                             |
| 1 fluid ounce = 1/20 pint            | = 0.02841 litre = 28.41 ml                 |
| 1 cubic foot                         | = 28.32 litres                             |

| <i>To convert</i>                           | <i>Multiply by</i> |
|---|--------------------|
| oz ac <sup>-1</sup> to g ha <sup>-1</sup>   | 70.06              |
| lb ac <sup>-1</sup> to kg ha <sup>-1</sup>  | 1.121              |
| cwt ac <sup>-1</sup> to kg ha <sup>-1</sup> | 125.5              |
| cwt ac <sup>-1</sup> to t ha <sup>-1</sup>  | 0.1255             |
| ton ac <sup>-1</sup> to kg ha <sup>-1</sup> | 2511               |
| ton ac <sup>-1</sup> to t ha <sup>-1</sup>  | 2.511              |
| gal ac <sup>-1</sup> to l ha <sup>-1</sup>  | 11.233             |

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

$$\begin{aligned}1 \text{ lb ac}^{-1} &= 1.1 \text{ kg ha}^{-1} \\1 \text{ gal ac}^{-1} &= 11 \text{ litres ha}^{-1} \\1 \text{ ton ac}^{-1} &= 2.5 \text{ t ha}^{-1}\end{aligned}$$

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

$$\begin{aligned}1 \text{ lb} &= 0.5 \text{ kg} \\1 \text{ lb ac}^{-1} &= 1 \text{ kg ha}^{-1}\end{aligned}$$

**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