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ROTHAMSTED  
RESEARCH

# Yields of the Field Experiments 1960

[Full Table of Content](#)



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## Miscellaneous Data

### Rothamsted Research

Rothamsted Research (1961) *Miscellaneous Data* ; Yields Of The Field Experiments 1960, pp 138 - 139 - DOI: <https://doi.org/10.23637/ERADOC-1-180>

METEOROLOGICAL RECORDS 1960 - ROTHAMSTED  
(Departure from long period means in brackets)

Month	Total sunshine: hours	Mean temperature: °F			Ground frosts (2)	Total rainfall: in. 1/1000 acre gauge	Rain days (3)	Drainage through 20 in. soil: in.	Wind (4) m.p.h.
		Air (1)	Dew point	In ground 1 ft. 4 ft.					
Jan.	37 (-16.4)	37.9 (+0.6)	36.5	39.9	18	2.78 (+0.25)	2.33	5.1	
Feb.	86 (+16.8)	38.7 (+0.5)	35.4	39.0	14	2.63 (+0.70)	1.97	5.1	
Mar.	59 (-57.9)	42.4 (+1.1)	38.7	42.8	9	1.70 (-0.20)	0.75	5.9	
Apr.	153 (-3.0)	47.1 (+1.3)	41.0	47.2	8	0.57 (-1.35)	0.04	5.5	
May	175 (-21.5)	54.3 (+2.4)	47.2	53.7	2	1.58 (-0.56)	0.30	3.9	
June	261 (+58.4)	59.7 (+2.4)	51.7	60.7	0	1.80 (-0.40)	-	4.3	
July	144 (-50.9)	58.7 (-2.1)	53.5	60.1	0	3.20 (+0.64)	0.58	3.8	
Aug.	164 (-19.6)	58.5 (-1.7)	53.6	60.4	0	3.58 (+0.98)	0.91	3.0	
Sept.	132 (-13.7)	55.5 (-0.6)	51.7	57.9	0	3.93 (+1.56)	2.19	3.5	
Oct.	66 (-38.2)	50.1 (+1.1)	47.9	51.7	2	6.51 (+3.55)	4.96	4.4	
Nov.	58 (-3.7)	44.2 (+1.7)	42.6	45.3	7	4.44 (+1.65)	3.94	4.5	
Dec.	42 (-2.6)	38.8 (+0.1)	36.8	40.7	18	3.65 (+1.05)	3.24	4.1	
Year*	1377(-152.3)	48.8 (+0.5)	44.7	49.9	78	36.37 (+7.87)	21.21	4.4	

(1) Mean of maximum and minimum.  
 (2) Number of nights grass minimum was 30°F or less.  
 (3) Number of days rainfall was 0.01 in. or more.  
 (4) At 2 metres above ground level.

\*Mean or total

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:*

$$1 \text{ lb ac}^{-1} = 1.1 \text{ kg ha}^{-1}$$

$$1 \text{ gal ac}^{-1} = 11 \text{ litres ha}^{-1}$$

$$1 \text{ ton ac}^{-1} = 2.5 \text{ t ha}^{-1}$$

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

$$1 \text{ lb} = 0.5 \text{ kg}$$

$$1 \text{ lb ac}^{-1} = 1 \text{ kg ha}^{-1}$$

**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