

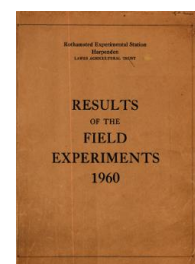
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ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1960

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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>

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METEOROLOGICAL RECORDS 1960 - ROTHAMSTED

(Departure from long period means in brackets)

Month	Total sunshine: hours	Mean temperature: Dew point	Air (1)	In ground 1 ft.	°F 4 ft.	Ground frosts (2)	Total rainfall: in. 1/1000 acre gauge	Rain (3) days	Drain- age through 20 in. soil: in.	Wind (4) m.p.h.
Jan.	37 (-16.4)	36.5	37.9 (+0.6)	39.9	44.3	18	2.78 (+0.25)	24	2.33	5.1
Feb.	86 (+16.8)	35.4	38.7 (+0.5)	39.0	42.8	14	2.63 (+0.70)	16	1.97	5.1
Mar.	59 (-57.9)	38.7	42.4 (+1.1)	42.8	43.3	9	1.70 (-0.20)	10	0.75	5.9
Apr.	153 (-3.0)	41.0	47.1 (+1.3)	47.2	45.4	8	0.57 (-1.35)	11	0.04	5.5
May	175 (-21.5)	47.2	54.3 (+2.4)	53.7	48.7	2	1.58 (-0.56)	9	0.30	3.9
June	261 (+58.4)	51.7	59.7 (+2.4)	60.7	53.7	0	1.80 (-0.40)	13	-	4.3
July	144 (-50.9)	53.5	58.7 (-2.1)	60.1	56.3	0	3.20 (+0.64)	20	0.58	3.8
Aug.	164 (-19.6)	53.6	58.5 (-1.7)	60.4	57.5	0	3.58 (+0.98)	17	0.91	3.0
Sept.	132 (-13.7)	51.7	55.5 (-0.6)	57.9	57.5	0	3.93 (+1.56)	13	2.19	3.5
Oct.	66 (-38.2)	47.9	50.1 (+1.1)	51.7	54.5	2	6.51 (+3.55)	28	4.96	4.4
Nov.	58 (-3.7)	42.6	44.2 (+1.7)	45.3	50.3	7	4.44 (+1.65)	28	3.94	4.5
Dec.	42 (-2.6)	36.8	38.8 (+0.1)	40.7	46.5	18	3.65 (+1.05)	26	3.24	4.1
Year*	1377(-152.3)	44.7	48.8 (+0.5)	49.9	50.1	78	36.37 (+7.87)	215	21.21	4.4

(1) Number of days rainfall was 0.01 in. or more.

(4) At 2 metres above ground level.

(1) Mean of maximum and minimum.

(2) Number of nights grass minimum was 30°F or less.

*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 ²)	= 0.8361 m ²
1 acre (ac) (=4840 yd ²)	= 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 ⁻¹ to g ha ⁻¹	70.06
lb ac ⁻¹ to kg ha ⁻¹	1.121
cwt ac ⁻¹ to kg ha ⁻¹	125.5
cwt ac ⁻¹ to t ha ⁻¹	0.1255
ton ac ⁻¹ to kg ha ⁻¹	2511
ton ac ⁻¹ to t ha ⁻¹	2.511
gal ac ⁻¹ to l ha ⁻¹	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