

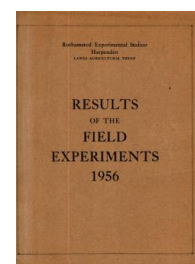
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Yields of the Field Experiments 1956

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Miscellaneous Data

Rothamsted Research

Rothamsted Research (1957) *Miscellaneous Data* ; Yields Of The Field Experiments 1956, pp 116 - 118 - DOI: <https://doi.org/10.23637/ERADOC-1-176>

56/E/1

CHEMICAL ANALYSES OF ORGANIC MATERIALS, USED IN THE THREE
COURSE ROTATION AND MARKET GARDEN EXPERIMENTS 1956

Material	Percentage dry matter in sample	Percentage in dry matter			
		Organic matter	N	P ₂ O ₅	K ₂ O
Three Course Rotation, Rothamsted					
Wheat Straw	86.6	92.8	0.52	1.60	1.55
Market Garden Experiment, Woburn					
Sewage Sludge					
1a	51.6	44.9	2.32	3.92	0.21
1b	52.6	22.2	1.80	1.21	0.12
2	78.8	41.3	2.43	3.37	0.19
3	54.4	40.2	2.60	3.49	0.16
Sludge Straw					
Compost					
1	34.4	42.4	2.09	2.61	0.48
2	39.0	44.4	2.29	2.75	0.93
3	41.6	43.2	2.41	3.51	0.72
Vegetable Compost					
1	24.0	50.3	2.25	4.42	2.52
2	27.8	49.4	2.64	4.01	3.15
3	25.3	56.7	2.59	3.96	2.53
Farmyard Manure					
1	27.0	53.1	2.34	1.79	1.63
2	19.2	57.4	4.14	4.18	3.13
3	27.7	56.8	2.54	3.53	3.66

Note. Samples applied: 1 - July 1955; 2 - September 1955;
3 - April 1956.

Samples of sewage sludge 1a and 1b represent two batches
used to provide the requisite amount.

56/E/2.1

METEOROLOGICAL RECORDS ROTHAMSTED 1956

(Departure from long period means in brackets)

Month	Total sunshine: hours	Mean temperature: °F			Ground (2) frosts		Total rainfall: in. 1/1000 acre gauge	Rain (3) days	Drain- age through 20 in. soil: in.	Wind (4) m.p.h.
		Air (1)	Dew point	In ground 1 ft. 4 ft.						
Jan.	53 (+1)	37.5 (+0.2)	34.7	37.5 43.3	18	43.3	4.63 (+2.13)	26	3.92	5.3
Feb.	72 (+3)	29.3 (-9.0)	27.9	34.0 40.7	26	40.7	0.68 (-1.25)	14	0.32	5.9
Mar.	137 (+19)	42.5 (+1.2)	36.0	40.0 40.4	14	40.4	1.03 (-0.88)	8	0.42	6.3
Apr.	167 (+10)	43.3 (-2.5)	35.9	44.3 43.2	18	43.2	1.15 (-0.79)	9	0.22	5.4
May	229 (+34)	53.6 (+1.7)	43.5	53.4 46.9	2	46.9	0.63 (-1.54)	8	0.00	4.9
June	143 (-59)	54.5 (-2.8)	48.0	55.5 50.7	0	50.7	3.93 (+1.76)	16	1.66	5.1
July	159 (-37)	60.1 (-0.6)	54.4	60.5 54.2	0	54.2	2.54 (0.00)	13	0.35	4.7
Aug.	151 (-34)	56.3 (-3.9)	51.7	57.3 55.9	0	55.9	5.34 (+2.77)	24	2.42	4.1
Sept.	98 (-48)	57.7 (+1.7)	53.5	56.9 55.5	0	55.5	2.28 (-0.09)	15	1.23	4.5
Oct.	100 (-4)	48.1 (-0.8)	44.2	50.1 54.1	3	54.1	1.85 (-1.14)	17	0.65	4.3
Nov.	56 (-6)	41.4 (-1.1)	38.6	42.5 49.5	12	49.5	0.86 (-1.97)	16	0.19	5.1
Dec.	12 (-33)	41.3 (+2.6)	39.7	41.5 46.3	8	46.3	3.86 (+1.30)	22	3.23	4.9
Year*	1377 (-154)	47.1 (-1.1)	42.3	47.8 48.4	101	48.4	28.78 (+0.30)	188	14.61	5.0

(1) Mean of maximum and minimum.

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

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

(4) At 2 metres above ground level.

* Mean or total.

56/E/2.2

METEOROLOGICAL RECORDS WOBURN 1956

Month	Total sun- shine: hours	Mean Temperature: °F Air ⁽¹⁾	In ground 1 ft.	Grass minimum: °F	Total rainfall: in. 8" gauge	Rain ⁽²⁾ days
January	63	37.6	37.5	29.5	3.98	21
February	66	29.1	33.6	22.1	0.54	11
March	150	42.6	40.6	29.1	0.77	7
April	149	43.1	45.0	29.8	1.35	8
May	225	53.4	54.2	37.3	0.43	5
June	139	54.4	57.1	43.7	2.48	17
July	163	60.3	62.1	49.7	3.69	13
August	146	56.5	58.1	46.6	4.19	22
September	99	57.4	56.9	47.5	2.16	11
October	108	48.0	49.6	38.2	1.50	15
November	67	41.6	41.9	32.7	0.75	11
December	20	38.4	41.0	34.3	2.93	21
Year*	1395	46.9	48.1	36.7	24.77	162

(1) Mean of maximum and minimum.

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

*Mean or total.