

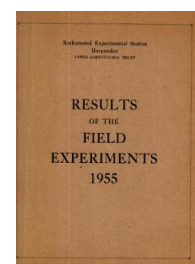
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Yields of the Field Experiments 1955

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Miscellaneous Data

Rothamsted Research

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55/E/1

CHEMICAL ANALYSES OF ORGANIC MATERIALS, USED IN THE THREE
COURSE ROTATION AND MARKET GARDEN EXPERIMENTS 1955

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	84.6	92.8	0.48	0.18	1.24
Market Garden Experiment, Woburn					
Sewage Sludge *					
1	45.4	41.2	2.59	3.74	0.21
2	45.8	41.9	2.53	3.42	0.16
Sludge-Straw Compost *					
1	39.8	43.2	2.43	2.94	0.47
2	35.1	45.3	2.36	2.88	0.37
Vegetable Compost *					
1	24.8	51.9	2.46	3.93	2.92
2	22.8	56.4	2.40	4.52	2.71
Farmyard Manure *					
1	23.1	60.0	3.16	4.34	3.70
2	21.2	61.1	1.96	1.00	1.29

*Sample 1 applied Sept, 1954; Sample 2 applied April, 1955.

55/E/2.1

METEOROLOGICAL RECORDS ROTHAMSTED 1955

(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.	34 (-18)	35.2 (-2.1)	32.9	36.8 43.6	23	2.75 (+0.25)	19	2.16	5.5
Feb.	78 (+9)	33.4 (-4.9)	30.7	36.7 42.1	20	2.31 (+0.38)	19	1.08	8.7
Mar.	149 (+32)	36.9 (-4.4)	30.9	36.6 40.0	24	1.45 (-0.46)	10	1.12	6.5
Apr.	173 (+16)	48.4 (+2.6)	41.4	46.7 43.1	10	0.49 (-1.46)	9	-	5.4
May	208 (+12)	49.7 (-2.2)	41.4	50.1 47.0	1	4.62 (+2.47)	16	1.96	6.2
June	153 (-50)	57.0 (-0.3)	49.9	57.6 50.1	0	2.11 (-0.06)	9	0.55	4.8
July	249 (+54)	62.8 (+2.1)	54.4	64.7 55.4	0	0.25 (-2.32)	4	-	4.3
Aug.	191 (+6)	63.9 (+3.7)	57.0	64.8 57.6	0	0.81 (-1.78)	8	-	3.2
Sept.	155 (+9)	57.7 (+1.7)	50.7	58.6 57.6	0	1.88 (-0.50)	14	-	3.3
Oct.	122 (+18)	48.1 (-0.8)	43.1	50.0 54.3	6	3.29 (+0.31)	17	1.66	4.1
Nov.	43 (-20)	43.9 (+1.5)	40.2	44.5 49.8	10	2.07 (-0.76)	18	1.69	3.8
Dec.	51 (+6)	41.2 (+2.6)	38.5	41.3 46.4	14	2.60 (+0.04)	23	1.82	5.8
Year	1606 (+74)	48.2 -	42.6	49.0 48.9	108	24.63 (-3.89)	166	12.04	5.1

(1) Mean of maximum and minimum.

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

(4) At 2 metres above ground level.

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

* Mean or total.

55/E/2.2

METEOROLOGICAL RECORDS WOBURN 1955

Month	Total sun- shine: hours	Mean Temperature: OF Air (1)	OF In ground 1 ft.	Grass minimum: OF	Total rainfall: in. 8" gauge	Rain (2) days
January	38	35.9	36.9	29.5	2.44	17
February	81	33.7	36.7	26.8	1.63	17
March	142	36.7	37.1	24.6	1.13	12
April	155	48.6	48.4	35.3	0.47	10
May	196	49.4	51.2	37.5	4.57	17
June	151	56.7	59.1	47.7	2.15	12
July	242	62.8	65.7	47.8	0.19	2
August	171	64.2	66.0	47.8	0.70	7
September	158	57.3	58.3	44.2	1.65	10
October	115	48.0	49.4	36.0	1.79	13
November	52	43.6	43.9	32.8	1.26	14
December	61	41.7	41.0	31.9	2.29	19
Year [*]	1562	48.2	49.5	36.8	20.27	150

(1) Mean of maximum and minimum.

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

^{*}Mean or total.