

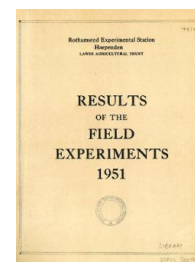
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Yields of the Field Experiments 1951

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Miscellaneous Data

Rothamsted Research

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51/E/1

CHEMICAL ANALYSES OF MANURES USED IN THE THREE, FOUR AND SIX COURSE

ROTATIONS 1951

Manures	% Organic Matter	% N	% P ₂ O ₅	% K ₂ O
Three Course Rotation				
Wheat Straw	81.3	0.64	0.19	1.04
Adco Compost	18.4	0.44	0.19	0.30
Sulphate of Ammonia		21.0		
Nitrate of Soda		15.5		
Superphosphate			20.4 (total)	
Muriate of Potash				60.0
Four Course Rotation				
Wheat Straw	81.3	0.64	0.19	1.04
Adco Compost	18.4	0.44	0.19	0.30
Dung	13.0	0.39	0.15	0.29
Sulphate of Ammonia		21.0		
Superphosphate			20.4 (total)	
Mineral Phosphate			27.8	
Muriate of Potash				60.0
Six Course Rotation				
Sulphate of Ammonia		21.0		
Superphosphate			20.4 (total)	
Muriate of Potash				60.0

METEOROLOGICAL RECORDS ROTHAMSTED 1951

(Departure from long period means in brackets)

Month	Total Hours of Sunshine	Mean Temperature (°F.)				In Ground 4 ft	Ground Frosts	Rainfall (in) Total 1/1000 acre Gauge	Rain (3) days	Drainage through 20 in. soil	Wind (4) m. p. h.
		Air (1)	Dew Point	1 ft	4 ft						
Jan.	43 (-10)	38.1 (+0.7)	36.0	37.4	41.3	15	3.49 (+0.97)	21	3.64	5.4	
Feb.	50 (-19)	37.7 (-0.7)	34.4	37.1	40.6	18	4.74 (+2.84)	23	4.18	5.3	
Mar.	92 (-26)	39.1 (-2.2)	34.3	38.7	40.6	15	3.61 (+1.72)	22	2.15	6.3	
Apr.	183 (+28)	43.7 (-2.1)	36.6	43.4	42.5	10	2.85 (+0.90)	18	1.59	6.3	
May	134 (-63)	49.7 (-2.2)	43.8	48.6	45.5	1	2.62 (+0.47)	17	0.54	6.7	
June	250 (+46)	56.5 (-0.8)	48.9	58.4	50.5	0	1.15 (-1.03)	9	-	4.9	
July	193 (-3)	61.6 (+0.9)	53.9	62.7	54.4	0	1.31 (-1.26)	9	-	3.8	
Aug.	156 (-30)	58.7 (-1.5)	52.6	60.0	56.6	0	3.92 (+1.37)	18	1.08	3.4	
Sept.	114 (-33)	57.1 (+1.0)	53.4	57.4	56.6	0	3.47 (+1.11)	13	1.68	3.7	
Oct.	107 (+2)	48.5 (-0.4)	45.6	49.6	54.0	7	1.31 (-1.70)	14	0.35	3.4	
Nov.	60 (-3)	46.5 (+4.1)	44.4	45.9	54.1	4	5.39 (+2.61)	27	4.77	3.4	
Dec.	52 (+7)	41.2 (+2.7)	38.4	40.9	46.6	11	2.12 (-0.47)	17	1.59	5.5	
Year	1434 (-104)	48.2 (-)	43.5	48.3	48.6	81	35.98 (+7.53)	208	21.57	4.8	

(1) Mean of Maximum and Minimum.

(2) Number of nights grass min. 30 F. or less.

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

(4) At 2 metres above ground level. Erratum to 1950 report E/2.1 Under 'Rainfall (in) Total', for '1/400 acre' read '1/1000 acre'.

51/E/2.1

51/E/2.2

METEOROLOGICAL RECORDS WOBURN 1951

Month	Total hours of Sunshine	Mean Temperature (°F)		Grass Minimum: °F	Total Rainfall: (in.) 8" gauge	Rain (2) days
		Air (1)	In Ground 1 ft.			
January	44	38.5	37.7	31.4	2.57	17
February	66	38.2	37.3	30.4	3.54	21
March	92	39.2	39.5	31.2	3.46	21
April	185	43.9	44.6	33.0	3.02	12
May	144	49.9	50.5	41.2	2.41	15
June	243	56.8	59.5	43.5	0.83	11
July	191	61.5	64.8	45.0	1.76	10
August	171	59.2	61.0	45.9	3.77	20
September	120	57.6	57.4	44.8	2.05	13
October	101	47.5	49.0	34.8	1.24	11
November	63	46.8	45.9	37.1	4.35	26
December	61	41.4	41.0	31.4	1.56	16
Year	1481	48.4	49.0	37.5	30.56	193

(1) Mean of Maximum and Minimum.

(2) No. of days rainfall was 0.01 in. or more.