

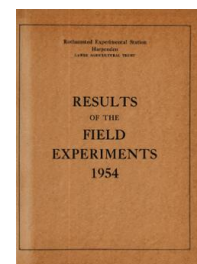
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Yields of the Field Experiments 1954

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Miscellaneous Data

Rothamsted Research

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54/E/1

CHEMICAL ANALYSES OF MANURES USED IN THE THREE, FOUR AND SIX
COURSE ROTATION EXPERIMENTS 1954

Manures	% Organic Matter	% N	% P ₂ O ₅	% K ₂ O
Three Course Rotation				
Wheat Straw	81.2	0.45	0.10	0.67
Sulphate of Ammonia		21.0		
Superphosphate			19.7 (Total)	
Muriate of Potash				58.4
Four Course Rotation				
Wheat Straw				
For wheat and ryegrass	79.1	0.32	0.06	0.33
For barley and potatoes	80.0	0.50	0.15	0.75
Adco Compost	14.6	0.38	0.22	0.24
Dung				
For wheat and ryegrass	17.8	0.44	0.19	0.83
For barley and potatoes	18.5	0.44	0.19	0.89
Sulphate of Ammonia		21.0		
Superphosphate			19.4 (Total)	
Mineral Phosphate			27.9	
Muriate of Potash				58.4
Six Course Rotation				
Sulphate of Ammonia		21.0		
Superphosphate			Autumn 19.4 (Total)	
Muriate of Potash			Spring 19.7 (Total)	58.4

METEOROLOGICAL RECORDS ROTHAMSTED 1954

(Departure from long period means in brackets)

Month	Total Hours of Sunshine	Mean Temperature (°F)				Ground Frosts (2)	Total Rainfall (in) 1/1000 acre Gauge	Rain Days (3)	Drainage through 20 in soil	Wind (4) m. p. h.
		Air (1)	Dew Point	In ground 1 ft	In ground 4 ft					
Jan.	66 (+14)	32.7 (-4.7)	32.1	37.7	45.1	20	1.21 (-1.30)	15	0.81	7.4
Feb.	60 (-9)	35.7 (-2.7)	32.7	35.4	41.3	16	2.33 (+0.41)	17	1.23	5.0
Mar.	99 (-19)	41.9 (+0.6)	37.5	40.7	42.0	10	2.59 (+0.68)	17	1.20	5.6
Apr.	175 (+19)	44.7 (-1.1)	35.4	44.9	44.6	18	0.30 (-1.67)	6	0.16	5.6
May	140 (-57)	52.0 (+0.1)	44.2	51.0	47.1	3	2.47 (+0.33)	14	0.16	5.0
June	138 (-66)	56.1 (-1.2)	49.7	56.7	51.4	0	3.67 (+1.52)	15	1.94	4.8
July	147 (-48)	57.5 (-3.2)	51.4	58.2	54.6	0	3.63 (+1.08)	18	0.85	4.4
Aug.	122 (-63)	58.2 (-2.0)	53.8	58.1	56.0	0	3.63 (+1.05)	18	1.62	3.6
Sept.	160 (+15)	55.0 (-1.0)	46.0	55.9	56.1	0	1.96 (-0.42)	19	0.00	4.3
Oct.	91 (-14)	53.3 (+4.4)	50.2	52.6	54.1	1	2.10 (-0.89)	21	0.70	4.4
Nov.	53 (-10)	43.7 (+1.3)	40.6	45.0	50.9	1	5.31 (+2.50)	20	4.64	4.3
Dec.	53 (+8)	42.5 (+3.9)	38.8	41.7	46.7	11	2.00 (-0.56)	17	1.76	6.6
Year*	1304 (-230)	47.8 (-0.4)	42.7	48.2	49.2	90	31.20 (+2.73)	197	15.07	5.1

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(3) 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.

54/E/2.2

METEOROLOGICAL RECORDS WOBURN 1954

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	62	36.1	37.6	27.0	0.91	9
February	69	36.0	35.9	25.6	2.22	17
March	101	42.0	41.3	32.1	2.38	13
April	175	44.2	46.8	28.3	0.23	7
May	133	51.9	52.7	39.1	2.61	16
June	132	56.4	58.6	45.1	3.03	17
July	135	58.1	60.2	45.5	2.47	20
August	120	58.6	59.2	47.0	3.50	20
September	166	55.5	56.3	43.2	1.99	20
October	100	53.5	52.8	43.6	2.28	21
November	55	44.0	44.6	32.5	4.17	23
December	61	43.3	41.6	33.5	2.24	15
Year*	1309	48.3	49.0	36.9	28.03	198

(1) Mean of maximum and minimum.

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

* Mean or total.