

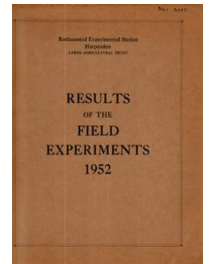
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Yields of the Field Experiments 1952

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Miscellaneous Data

Rothamsted Research

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CHEMICAL ANALYSES OF MANURES USED IN THE THREE, FOUR AND SIX COURSE
ROTATION EXPERIMENTS 1952

Manures	% Organic Matter	% N	% P ₂ O ₅	% K ₂ O
Three Course Rotation				
Wheat Straw	80.7	0.52	0.20	1.05
Sulphate of Ammonia		21.0		
Superphosphate			18.4 (total)	
Muriate of Potash				56.7
Four Course Rotation				
Wheat Straw	80.7	0.52	0.20	1.05
Adco Compost	16.8	0.38	0.27	0.12
Dung	16.5	0.39	0.17	0.82
Sulphate of Ammonia		21.0		
Superphosphate			18.4 (total)	
Mineral Phosphate			27.9	
Muriate of Potash				56.7
Six Course Rotation				
Sulphate of Ammonia		21.0		
Superphosphate			18.4 (total)	
Muriate of Potash				56.7

METEOROLOGICAL RECORDS ROTHAMSTED 1952
(Departure from long period means in brackets)

Month	Total Hours of Sunshine	Mean Temperature (°F.)				In Ground 4 ft	Ground Frosts (2)	Total Rainfall (in) 1/1000 acre Gauge	Rain (3) Days	Drain- age through 20 in soil	Wind (4) m. p. h
		Air (1)	Dew Point	1 ft	2)						
Jan.	88 (+36)	36.5 (-0.9)	32.7	37.3	43.8	19	1.92 (-0.61)	18	1.17	6.7	
Feb.	78 (+9)	36.7 (-1.7)	32.1	36.1	40.6	21	0.70 (-1.23)	12	0.68	4.9	
Mar.	89 (-29)	43.1 (+1.8)	39.0	42.3	42.6	11	2.84 (+0.93)	21	1.14	5.5	
Apr.	165 (+9)	49.5 (+3.7)	42.1	46.4	44.5	6	2.01 (+0.05)	15	2.20	4.0	
May	212 (+16)	55.7 (+3.8)	47.7	55.7	49.4	0	1.72 (-0.43)	12	0.09	3.9	
June	219 (+14)	58.2 (+0.7)	49.6	59.1	53.2	0	0.81 (-1.36)	12	-	4.0	
July	180 (-16)	62.4 (+1.7)	52.8	64.3	56.8	0	0.55 (-2.01)	5	-	4.5	
Aug.	178 (-7)	61.5 (+1.3)	54.3	61.6	58.0	0	5.13 (+2.57)	16	2.34	4.0	
Sept.	120 (-26)	51.8 (-4.3)	46.3	54.2	56.6	2	3.68 (+1.31)	21	1.40	4.9	
Oct.	100 (-5)	47.5 (-1.4)	43.7	47.4	52.3	4	2.94 (-0.05)	16	1.77	5.4	
Nov.	65 (+2)	38.2 (-4.2)	35.1	40.7	48.5	13	4.04 (+1.23)	18	2.51	6.1	
Dec.	61 (+16)	35.4 (-3.1)	32.2	36.0	42.8	20	2.88 (+0.30)	19	3.55	4.7	
Year*	1555 (+19)	48.0 (-0.2)	42.3	48.4	49.1	96	29.22 (+0.70)	185	16.85	4.9	

(1) Mean of maximum and minimum.

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

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

(4) At 2 metres above ground level.

*Mean or total.

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METEOROLOGICAL RECORDS WOBURN 1952

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	87	37.0	37.1	28.7	1.51	14
February	87	36.8	36.3	26.9	0.67	8
March	90	43.4	43.3	34.6	3.56	22
April	162	49.5	48.0	35.8	1.93	15
May	216	55.9	57.9	42.7	2.46	15
June	207	58.2	60.7	44.6	1.19	11
July	222	62.6	66.7	49.1	0.39	6
August	183	61.2	62.9	48.9	3.18	14
September	119	51.7	54.0	38.7	3.06	17
October	99	47.2	46.8	36.9	2.96	18
November	65	38.2	39.9	30.0	3.24	16
December	68	35.9	35.8	27.7	2.06	19
Year [#]	1605	48.1	49.1	37.0	26.21	175

(1) Mean of maximum and minimum.

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

[#]Mean or total.