

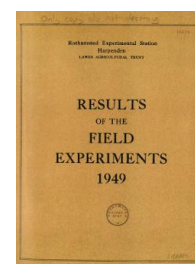
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Yields of the Field Experiments 1949

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Miscellaneous Data

Miscellaneous Data, Rothamsted Research (1950) Yields Of The Field Experiments 1949, pp 98 - 99

49/2/1

CHEMICAL ANALYSES OF MANURES USED IN THE THREE, FOUR
AND SIX COURSE ROTATIONS 1949

Three Course Rotation

Manures	% Organic matter	% N	% P ₂ O ₅	% K ₂ O
Chaffed Straw	80.6	0.81	0.18	1.76
Adco	19.4	0.53	0.28	0.50
Sulphate of Ammonia		21.0		
Nitrate of Soda		15.5		
Superphosphate			17.5 (total)	
Muriate of Potash				57.4

Four Course Rotation

Manures	% Organic matter	% N	% P ₂ O ₅	% K ₂ O
Chaffed Straw	80.6	0.81	0.18	1.76
Adco	19.4	0.53	0.28	0.50
Dung	20.1	0.64	0.22	0.83
Sulphate of Ammonia		21.0		
Superphosphate			17.5 (total)	
Mineral Phosphate			33.3	
Muriate of Potash				62.0

Six Course Rotation

Manures	% Organic matter	% N	% P ₂ O ₅	% K ₂ O
Sulphate of Ammonia		21.0		
Superphosphate			17.5 (total)	
Muriate of Potash				57.4

METEOROLOGICAL RECORDS, 1949

(Departure from Long period means in brackets)

Month	Total Hours of Sunshine	Mean Temperature (°F)			Ground (2) Frosts	Rainfall (in)		Rain (3) Days	Drainage through 20 in: Soil	Wind (4) m.p.h
		Air (1)	Dew Point	In Ground 1 ft 4 ft		Total 1/1000 acre Gauge				
Jan.	55 (+ 3)	40.3 (+ 3.0)	36.4	39.6 43.9	14	1.56 (-0.99)	15	1.42	5.6	
Feb.	116 (+47)	40.7 (+ 2.4)	36.1	38.6 42.2	17	1.36 (-0.52)	12	0.85	5.3	
Mar.	105 (-13)	39.7 (- 1.6)	34.1	39.5 42.2	17	1.41 (-0.50)	10	0.50	6.5	
Apr.	139 (+34)	49.5 (+ 3.8)	41.7	48.5 45.3	4	1.94 (-0.01)	13	0.38	6.3	
May	206 (+ 8)	50.7 (- 1.2)	42.6	48.9 52.6	4	2.05 (-0.10)	9	0.34	4.5	
June	224 (+21)	58.1 (+ 0.8)	50.8	52.7 60.0	0	0.64 (-1.56)	6	-	3.6	
July	226 (+30)	63.4 (+ 2.7)	52.9	57.1 65.9	0	1.13 (-1.43)	7	-	3.8	
Aug.	221 (+35)	62.6 (+ 2.4)	52.9	59.0 63.8	0	1.73 (-0.82)	8	-	3.9	
Sept.	155 (+ 8)	62.5 (+ 6.5)	56.4	59.5 62.7	0	0.53 (-1.84)	11	-	4.0	
Oct.	126 (+21)	53.0 (+ 4.2)	48.8	54.4 57.5	4	6.14 (+3.14)	19	4.35	3.5	
Nov.	77 (+15)	42.7 (+ 0.3)	39.3	42.8 50.4	11	2.96 (+0.21)	20	2.51	4.7	
Dec.	57 (+13)	41.3 (+ 2.7)	37.3	41.2 46.1	11	1.52 (-1.09)	19	1.04	6.1	
Year	1758 (+223)	50.4 (+ 2.2)	44.1	50.8 50.4	82	22.97 (-5.50)	149	11.39	4.8	

49/7/2

(1) Mean of Maximum and Minimum.

(2) Number of nights Grass Minimum was 30°F. or less.

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

(4) At 2 metres above ground level.