

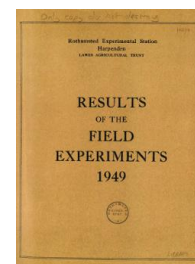
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Yields of the Field Experiments 1949

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Miscellaneous Data

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

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

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- (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.