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Yields of the Field Experiments 1948

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Miscellaneous Data

Rothamsted Research

Rothamsted Research (1949) *Miscellaneous Data* ; Yields Of The Field Experiments 1948, pp 98 - 99

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CHEMICAL ANALYSES OF MANURES USED IN THE THREE, FOUR
AND SIX COURSE ROTATIONS 1948

Three Course Rotation

Manures	% Organic matter	% N	% P ₂ O ₅	% K ₂ O
Chaffed Straw	82.0	0.41	0.11	0.66
Adco	21.9	0.43	0.22	0.18
Sulphate of Ammonia		21.0		
Nitrate of Soda		15.5		
Superphosphate			17.7 (total)	
Muriate of Potash				62.0

Four Course Rotation

Manures	% Organic matter	% N	% P ₂ O ₅	% K ₂ O
Chaffed Straw	82.0	0.41	0.11	0.66
Dung	20.6	0.58	0.29	0.92
Adco	21.9	0.43	0.22	0.18
Sulphate of Ammonia		21.0		
Superphosphate			17.7	
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			17.7 (total)	62.0
Muriate of Potash				62.0

METEOROLOGICAL RECORDS, 1948

(Departure from Long period means in brackets)

Month	Total Hours of Sunshine	Mean Temperature (°F)			Ground (2) Frosts	Rainfall (in) Total 1/1000 acre Gauge	Rain (3) Days	Drainage through 20 in. Soil	Wind (4) m.ph
		Air (1)	Dew Point	Ground 1 ft 4 ft					
Jan.	40 (-13)	41.3 (+4.0)	38.2	40.4 45.0	12	5.13 (+2.61)	24	4.92	7.3
Feb.	87 (+19)	39.7 (+1.4)	34.0	39.7 43.7	15	1.02 (-0.87)	11	0.59	8.1
Mar.	156 (+39)	46.4 (+5.2)	38.8	43.7 43.5	13	0.96 (-0.96)	10	-	5.2
Apr.	210 (+56)	48.3 (+2.6)	41.1	47.5 45.9	6	1.44 (-0.52)	14	.44	5.8
May.	228 (+31)	52.1 (+0.2)	44.5	53.7 49.7	1	3.09 (+0.95)	14	0.80	4.9
June	152 (-52)	55.9 (-1.4)	49.6	56.7 52.8	0	3.04 (+0.85)	20	0.50	4.9
July	185 (-11)	59.9 (-0.8)	51.7	59.9 55.4	0	0.95 (-1.62)	11	0.10	4.1
Aug.	133 (-53)	59.0 (-1.2)	52.6	60.7 58.1	0	2.64 (+0.09)	17	0.70	3.8
Sept.	140 (-7)	56.8 (+0.8)	51.5	57.5 57.1	1	1.86 (-0.51)	15	0.54	4.2
Oct.	91 (-14)	48.8 (0.0)	45.1	50.4 54.5	6	2.27 (-0.74)	11	1.06	3.5
Nov.	62 (-1)	43.1 (+0.7)	40.2	44.3 49.8	9	1.73 (-1.03)	22	1.40	3.4
Dec.	49 (-2)	41.9 (+3.4)	38.7	41.9 46.8	11	3.09 (+0.49)	19	2.58	5.8
Year	1533 (-2)	49.4 (+1.2)	43.8	49.7 50.2	74	27.22 (-1.27)	188	13.63	5.1

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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.