

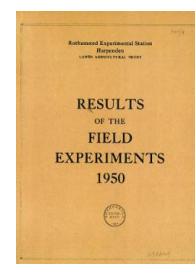
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Yields of the Field Experiments 1950

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Miscellaneous Data

Rothamsted Research

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

ROTATIONS 1950

Manures	% Organic Matter	% N	% P_2O_5	% K_2O
Three Course Rotation				
Chaffed Straw	83.3	0.52	0.16	0.84
Adco	16.9	0.54	0.31	0.29
Sulphate of Ammonia	-	21.0	-	-
Nitrate of Soda	-	15.5	-	-
Superphosphate	-	-	19.5 (total)	-
Muriate of Potash	-	-	-	57.4 (1)
Sulphate of Potash	-	-	-	48.0 (2)

(1) For barley and sugar beet.

(2) For potatoes.

Four Course Rotation				
Chaffed Straw	83.3	0.52	0.16	0.84
Adco	16.9	0.54	0.31	0.29
Dung	21.5	0.67	0.28	1.12
Sulphate of Ammonia	-	21.0	-	-
Superphosphate	-	-	19.5 (total)	-
Mineral Phosphate	-	-	33.3	-
Muriate of Potash	-	-	-	57.4

Six Course Rotation				
Sulphate of Ammonia	21.0	-	-	-
Superphosphate	-	17.5 (total)	(3)	-
		19.5 (total)	(4)	-
Muriate of Potash	-	-	-	57.4 (5)
Sulphate of Potash	-	-	-	48.0 (6)

(3) For wheat, rye and clover.

(4) For potatoes, sugar beet and barley.

(5) For all crops except potatoes.

(6) For potatoes.

METEOROLOGICAL RECORDS ROTHAMSTED 1950
(Departure from long period means in brackets)

Month	Total Hours of Sunshine	Air (1)	Mean Temperature (°F)	Dew Point	In Ground 1 ft	In Ground 4 ft	Ground (2) Frosts	Rainfall (in) Total 1/100 acre Gauge	Rain (3) Days	Drainage through 20 in. Soil	Wind (4) m.p.h.
Jan.	36 (-17)	38.3 (+0.9)	40.1	35.9	40.1	45.1	14	1.00 (-1.54)	15	0.33	4.7
Feb.	58 (-12)	41.7 (+3.3)	40.0	37.6	40.0	42.7	10	4.61 (+2.74)	22	4.11	5.7
Mar.	126 (+9)	44.5 (+3.2)	42.9	39.0	42.9	43.6	11	0.89 (-1.02)	15	-	4.2
Apr.	147 (-9)	45.3 (-0.5)	44.8	37.9	44.8	45.5	7	1.95 (-)	19	0.14	6.0
May	153 (-45)	51.3 (-0.6)	51.3	45.5	51.3	48.1	3	2.03 (-0.12)	12	0.35	4.7
June	261 (+58)	60.8 (+3.5)	62.4	53.2	62.4	53.4	0	1.56 (-0.62)	10	0.06	3.2
July	189 (-7)	60.3 (-0.4)	62.3	53.6	62.3	57.1	0	5.50 (+2.96)	15	2.51	2.9
Aug.	165 (-21)	59.9 (-0.3)	61.2	54.5	61.2	58.6	0	3.54 (+1.00)	18	1.09	2.5
Sept.	115 (-32)	55.0 (-1.1)	55.6	50.1	55.6	57.4	0	3.33 (+0.98)	25	1.08	4.1
Oct.	104 (-1)	59.1 (+0.2)	50.1	44.8	50.1	54.5	5	0.62 (-2.41)	13	0.10	3.3*
Nov.	56 (-7)	41.9 (-0.5)	42.9	39.2	42.9	49.5	10	5.39 (+2.64)	24	4.13	5.6
Dec.	41 (-4)	32.9 (-5.7)	36.4	30.3	36.4	44.6	21	1.71 (-0.88)	19	0.91	5.8
Year	1451 (-88)	48.4 (+0.1)	49.2	43.5	49.2	50.0	81	32.13 (+3.72)	207	14.81	4.4

(1) Mean of Maximum and Minimum. *Record for 30 days.

(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.

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