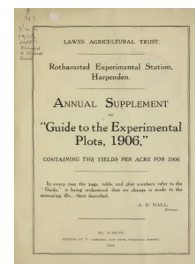


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Rothamsted Experimental Station - Annual Supplement to "guide to the Experimental Plots, 1906" Containing the Yields per Acre for 1906



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Rothamsted Experimental Station Annual Supplement to "guide to the Experimental Plots, 1906"

Rothamsted Research

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LAWES AGRICULTURAL TRUST.

Rothamsted Experimental Station,
Harpenden.

ANNUAL SUPPLEMENT

TO

“Guide to the Experimental
Plots, 1906,”

CONTAINING THE YIELDS PER ACRE FOR 1906.

In every case the page, table, and plot numbers refer to the
“Guide,” it being understood that no change is made in the
manuring, &c., there described.

A. D. HALL,
Director.

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RAINFALL AND DRAINAGE, 1906.

(Page 16, Table IX.)

	Rain.			Drainage.			Bright Sunshine.	Temperature.		
	Total Fall.		No. of Rainy Days.	Soil 20 ins. deep.	Soil 40 ins. deep.	Soil 60 ins. deep.		Hours.	Max.	Min.
	5-inch Funnel Gauge.	$\frac{1}{1000}$ th Acre Gauge.								
	Inches.	Inches.	No.	Inches.	Inches.	Inches.		°F.	°F.	
January ...	4.038	4.093	22	3.380	3.607	3.525	74.9	46.7	35.3	
February ...	2.282	2.330	18	1.476	1.575	1.551	84.9	43.3	31.5	
March ...	1.544	1.635	18	0.421	0.539	0.526	122.6	47.6	33.7	
April ...	0.739	0.795	7	0.016	0.045	0.076	226.1	55.5	33.5	
May ...	1.333	1.377	16	0.005	0.015	0.043	151.2	60.1	43.5	
June ...	3.422	3.606	10	1.623	1.571	1.578	239.9	66.6	46.7	
July ...	0.383	0.419	7	0.009	0.053	0.056	271.8	71.6	51.5	
August ...	1.171	1.245	10	0.002	0.005	0.003	253.4	73.3	52.6	
September ...	1.065	1.146	12	...	...	...	206.1	67.3	47.2
October ...	5.160	5.297	20	3.033	2.914	2.858	95.8	58.8	45.7	
November ...	4.081	4.217	17	3.660	3.811	3.721	46.2	50.5	39.4	
December ...	2.795	2.789	18	2.325	2.343	2.319	59.9	40.8	31.3	
Total or Mean	28.013	28.949	175	15.950	16.478	16.256	1832.8	56.8	41.0	

MANGEL WURZEL. BARN FIELD.

(Page 11, Table VI.)

Strip.	O.	N.	A.	A C.	C.
	Tons.	Tons.	Tons.	Tons.	Tons.
1	R. 20.39	30.31	25.69	26.82	25.26
	L. 4.14	5.76	4.90	5.22	4.43
2	R. 20.94	30.24	30.95	32.06	30.10
	L. 3.47	5.42	6.18	6.88	5.12
4	R. 5.51	13.98	12.29	26.31	23.18
	L. 1.39	16.62			
5	R. 5.91	14.30	3.85	6.57	8.93
	L. 1.33	3.70	2.16	2.31	2.30
6	R. 5.31	17.23	16.38	25.28	21.66
	L. 1.21	3.64	3.52	5.49	2.98
7	R. 5.44	21.92	16.95	28.19	24.68
	L. 1.42	3.98	2.94	5.13	3.39
8	R. 3.67	10.25	6.36	8.05	9.93
	L. 1.13	3.74	3.06	2.58	2.43

HAY. THE PARK GRASS PLOTS.

(Page 19, Table XI.)

FIRST CROP.

Plot.	Produce of Hay per Acre.					
						Cwt.
3	12.0
12	15.3
2	15.7
1	18.7
4-1	14.4
8	20.4
7	37.9
6	29.6
15	34.3
5	10.9
17	28.8
4-2	25.5
10	30.7
9	44.5
13	17.4
11-1	47.3
11-2	63.6
16	38.9
14	44.0

SECOND CROP.

11-1	...	...	...	...	...	3.4
11-2	...	...	...	...	...	4.2
14	...	...	...	...	...	1.8

BOTANICAL COMPOSITION, PER CENT.

(Page 20, Table XII.)

FIRST CROP.

Plot.	Gramineæ.	Leguminosæ.	Miscellanæ.
	Per cent.	Per cent.	Per cent.
3	45.6	8.3	46.1
4-1	39.8	11.9	48.3
8	34.8	12.5	52.7
7	48.3	21.7	30.0
6	41.0	30.3	28.7
15	50.4	24.4	25.2

WHEAT. BROADBALK FIELD.

(Page 26, Table XIV.)

Plot.	Dressed Grain.		Straw.
	Yield.	Weight per Bushel.	
	Bushels.	lbs.	Cwt.
2	43.6	64.2	38.5
3	15.2	63.0	10.2
5	17.1	63.4	12.5
6	27.7	64.2	22.7
7	37.7	65.0	32.4
8	47.5	64.8	42.0
9	32.9	63.9	26.9
10	22.8	63.1	16.6
11	22.8	62.5	17.7
12	29.8	63.5	21.1
13	40.9	64.9	36.0
14	30.6	64.0	25.1
15	42.2	65.1	36.0
16	43.1	64.2	38.5
17)	*43.5	64.0	34.4
18)	†29.5	63.2	21.8
19	36.8	64.4	29.6

* Produce by Ammonium Salts. † Produce by Minerals.

BARLEY. HOOS FIELD.

(Page 33, Table XVI.)

Plot.	Dressed Grain.		Straw.
	Yield.	Weight per Bushel.	
	Bushels.	lbs.	Cwt.
1 O	11.0	54.9	6.6
2 O	18.7	56.6	8.2
3 O	14.5	56.0	7.9
4 O	20.1	57.0	11.4
1 A	24.7	56.4	14.2
2 A	41.5	57.0	21.4
3 A	28.1	57.6	18.4
4 A	52.1	59.3	26.5
1 N	30.1	56.8	16.9
2 N	50.0	58.8	29.0
3 N	31.0	57.7	19.4
4 N	49.2	59.3	26.1
1 C	41.6	58.6	21.6
2 C	42.8	59.1	22.9
3 C	39.8	59.1	22.3
4 C	46.6	59.2	25.0
7-1	22.4	57.3	12.8
7-2	54.8	59.0	33.6

BARLEY. HOOS FIELD.

(Page 40, Table XIX.)

Plot.	Dressed Grain.		Straw.	Total Produce.
	Yield.	Weight per Bushel.		
	Bushels.	lbs.		
1	9.2	57.0	5.5	1175
2	17.0	57.5	9.8	2116
3	36.0	58.5	21.1	4563
4	40.5	58.5	24.8	5226

WHEAT AFTER FALLOW.

HOOS FIELD.

(Page 41, Table XX.)

YIELD PER ACRE.

Dressed Grain	...	...	{ Yield—13.4 bushels.
			{ Weight per bushel—63.4 lbs.
Straw	...	...	12.8 cwt.
Total Produce	...	...	2340 lbs.

INOCULATION OF LEGUMINOUS PLANTS.
HOOS FIELD.

(Page 40 and plan page 37).

PRODUCE OF RED CLOVER (HAY) IN 1906.

1. EFFECT OF INOCULATING THE SOIL.

Plot.	Soil inoculated with—	Mean of Plots 6, 8, and 10. 1st and 2nd Crops.
A ...	Hiltner's Preparation from Munich	Cwt. 76·4
B ...	Moore's Preparation from the United States ...	72·9
C ...	Soil from a field which had carried Red Clover in 1904	68·4
D ...	Left uninoculated	61·9

2. EFFECT OF PAST MANURING.

Plot.		Mean of Plots, A, B, C, D. 1st and 2nd Crops.
6	Nitrate of Soda 1876-1901, since unmanured ...	Cwt. 61·1
8	Nitrate of Soda and Mixed Minerals 1876-1901, since unmanured	79·5
10	Mixed Minerals only 1876-1901, since unmanured...	69·0

3. DETAILS OF THE ABOVE.

Plot.	1st Crop.	2nd Crop.	Total.
	Cwt.	Cwt.	Cwt.
6 A	31·8	33·0	64·8
6 B	36·5	37·5	74·0
6 C	28·8	28·5	57·3
6 D	25·8	22·5	48·3
8 A	51·4	37·5	88·9
8 B	48·4	34·5	82·9
8 C	43·9	30·0	73·9
8 D	40·9	31·5	72·4
10 A	43·9	31·5	75·4
10 B	39·4	22·5	61·9
10 C	42·4	31·5	73·9
10 D	37·9	27·0	64·9

