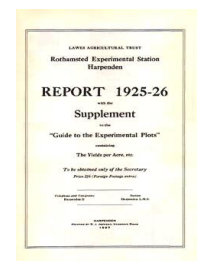


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ROTHAMSTED
RESEARCH

Report 1925-26 With the Supplement to the Guide to the Experimental Plots



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The Classical Experiments

Rothamsted Research

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DATES OF SOWING AND HARVESTING (Harvest 1925).

Field.	Crop.	Variety.	Sowing began.	Sowing finished.	Cutting began.	*Carting began.	*Carting finished.	Yield per Acre.
Great Knott, east	Forage Mixture	Beans, Peas, Vetches, Oats, Wheat	Mar. 12, '25	Mar. 16, '25	June 29	July 5	July 6	21 cwt.
" west	Fallow	—	—	—	—	—	—	—
Little Knott	Grass	Mixture†	May 19, '25	May 20, '25	—	—	—	— §
Foster's, east	Barley	Plumage Archer	Mar. 19, '25	Mar. 20, '25	Aug. 18	Aug. 28	Aug. 31	48 bush.
" west	Swedes	Webb's Purple	June 3, '25	June 8, '25	—	Nov. 11	Nov. 16	11 tons
West Barnfield	Potatoes	Kerr's Pink, King Edward, Great Scott	April 29, '25	May 4, '25	—	Oct. 6	Oct. 29	see p. 139
	Mangolds	Red Intermediate	May 11, '25	May 11, '25	—	Oct. 16	Oct. 24	see p. 14†
Long Hoos, east	Oats	Grey Winter	Oct. 3, '24	Oct. 4, '24	July 20	Aug. 8	Aug. 17	68 bush.
" west	Wheat	Red Standard	Oct. 17, '24	Oct. 17, '24	Aug. 11	Aug. 17	Aug. 18	40 bush.
New Zealand	Mangolds	Sutton's Prizewinner, Red Intermediate	May 14, '25	May 15, '25	—	Sept. 17	Oct. 15	25 tons
Stackyard	Turnips	Mammoth Green Top	June 2, '25	June 2, '25	—	July 16	July 20	17 tons
Great Harpenden	Oats	Giant Eliza	Mar. 6, '25	Mar. 6, '25	Aug. 1	Aug. 15	Aug. 15	40 bush.
	Clover	Broad Red	Mar. 18, '24	Mar. 21, '24	Aug. 15	Aug. 28	Oct. 15	Failed
	Beans	Spring	Feb. 19, '25	Feb. 21, '25	June 23	June 24	June 26	2 tons†
Sawpit	Clover	Broad Red	April 4, '24	April 5, '24	June 15	June 19	June 20	30 cwt.
	Wheat	Red Standard	Nov. 10, '24	Nov. 11, '24	Sept. 26	Oct. 10	Oct. 15	—
Sawyers	Oats	Grey Winter	Nov. 24, '24	Nov. 26, '24	Aug. 14	Aug. 31	Sept. 2	32 bush.
Broadbalk	Wheat	Svalof Victory	Mar. 30, '25	Mar. 30, '25	July 20	Aug. 6	Aug. 8	48 bush.
Little Hoos	Fallow	Red Standard	Oct. 24, '24	Oct. 24, '24	Aug. 26	Aug. 29	Aug. 29	40 bush.
Great Hoos	Barley	Plumage Archer	Mar. 19, '25	Mar. 19, '25	Aug. 29	Sept. 7	Sept. 8	see p. 135
Barnfield	Mangolds	Sutton's Prizewinner	May 15, '25	May 15, '25	Oct. 27	Oct. 27	Nov. 21	see p. 127
Agdell	Barley	Plumage Archer	April 3, '25	April 3, '25	Sept. 3	Sept. 22	Sept. 22	see p. 125
Great Field	Hay	—	—	—	June 18	June 22	June 23	25 cwt.
Park	Grass	—	—	—	June 12	June 17	June 18	see p. 128

* In the case of roots, the dates given are those on which lifting began and finished.
 † Crop cut green for silage.
 ‡ The mixture consisted of Broad Red Clover; Wild White Clover; Indigenous Cocksfoot; Meadow Fescue; Timothy; Perennial Rye; Wild Perennial Rye; Rough-stalked Meadow Grass.
 § No yield. First year of permanent grass.

DATES OF SOWING AND HARVESTING (Harvest 1926).

Field.	Crop.	Variety.	Sowing began.	Sowing finished.	Cutting began.	*Carting began.	*Carting finished.	†Yield per acre.
Great Knott, west ...	Wheat	Red Standard Cambridge, Bro-wick, Little Joss, Midlothian III	Oct. 26, '25	Oct. 29, '25	Aug. 20	Aug. 26	—	—
" east	Fallow							
Little Knott...	Oats	Svalof Victory	—	—	June 21	—	—	—
Foster's, east	Grass	Permanent Grass	—	—	June 22	—	—	40 cwt.
" west	Clover	Broad Red, late flowering	—	—	—	July 1	—	37 cwt.
West Barnfield	Clover	—	—	—	—	—	—	—
Long Hoos, east	Barley	Plumage Archer	Mar. 17, '26	Mar. 18, '26	Aug. 30	Sept. 11	—	—
" west	Winter Oats	Grey Winter	Oct. 9, '25	Oct. 10, '25	July 28	Aug. 16	—	8 qrs.
Stackyard ...	Forage Crop	Beans, Peas, Vetches and Cereals	Oct. 14, '25	Oct. 15, '25	Sept. 9	Sept. 13	—	4 qrs.
New Zealand	Potatoes	Kerr's Pink	April 23, '26	—	Sept. 21	—	—	Av. 10 tn.
Great Harpenden ...	Mangolds	Cannells QQ	April 14, '26	April 24, '26	Oct. 6	Oct. 13	—	Av. 22 tn.
Sawpit ...	Barley	Plumage Archer	Mar. 16, '26	Mar. 16, '26	Aug. 23	Aug. 31	—	—
Sawyers ...	Rye	Swedish	Oct. 29, '25	—	Aug. 11	Aug. 19	—	5 qrs.
Broadbalk ...	Wheat	Red Standard	Oct. 30, '25	Nov. 11, '25	Aug. 16	Aug. 26	—	2½ qrs.
Little Hoos	Grass	Permanent seeding	April 17, '25	April 19, '25	June 30	July 8	—	15 cwt.
Hoos	Swedes	Dreadnought	June 14, '26	—	Dec. 1	Dec. 1	—	19 tons
Agdell	Fallow	(White Mustard ploughed down)	July 2, '26	—	Ploughed down	Sept. 2 to Sept. 2	—	20
Great Field	Wheat	Red Standard	Nov. 25, '25	—	—	Sept. 1	—	—
"	Fallow							
"	Swedes	Purple King	June 3, '26	—	Oct. 20	—	—	—
"	Barley	Plumage Archer	April 7, '26	April 8, '26	Aug. 25	Sept. 10	—	—
"	Oats	Svalof Victory	—	—	Aug. 16	Aug. 30	—	6 qrs.
"	Wheat and Fallow	Red Standard	—	—	—	—	—	—
"	Clover (failed)	Broad Red	—	—	June 28	July 6	—	10 cwt.
"	Mixed Legumes	Vetches, Oats, Italian Clover, etc.	April 16, '26	—	Ploughed down	down after math.	—	—
"	Grazing Plots							
"	Hay							
Park	Hay				June 21	June 28	July 7	33 cwt.
"	Hay				{ June 15	June 31	July 5	—
"	Hay				{ " 22			
"	Hay				{ " 24			

* In the case of roots, the dates given are those on which lifting began and finished. † Estimates of standing crops.

CROP YIELDS ON THE EXPERIMENTAL PLOTS.

NOTES.— In each case the year refers to the harvest, *e.g.*, Wheat harvested in 1926.
In the tables, total straw includes straw, cavings and chaff.

CONVERSION TABLE.

1 acre	=	0.405 Hectare	0.963 Feddan.
1 bushel (Imperial)	=	0.364 Hectolitre (36.364 litres) ...	0.184 Ardeb.
1 lb. (pound avoirdupois)	=	0.453 Kilogramme	1.009 Rotls.
1 cwt. (hundredweight)	=	50.8 Kilogrammes	{ 113.0 Rotls. 1.366 Maunds.
1 metric quintal ...	=	{ 100.0 Kilogrammes 220.46 lb.	
1 bushel per acre	=	0.9 Hectolitre per Hectare ...	0.191 Ardeb per Feddan.
1 lb. per acre ...	=	1.12 Kilogramme per Hectare ...	1.049 Rotls per Feddan.
1 cwt. per acre ...	=	125.60 Kilogrammes per Hectare or 1.256 metric Quintals per Hectare	117.4 Rotls per Feddan.

In America the Winchester bushel is used = 35.236 litres. 1 English bushel = 1.032 American bushels.

CROPS GROWN IN ROTATION. AGDELL FIELD.

PRODUCE PER ACRE.

Year.	CROP.	O. Unmanured.		M. Mineral Manure.		C. Complete Mineral & Nitrogenous M'nure	
		5. Fallow.	6. Clover or Beans.	3. Fallow.	4. Clover or Beans.	1. Fallow.	2. Clover or Beans.
AVERAGE OF THE FIRST NINETEEN COURSES, 1848-1923.							
	Roots (Swedes) cwt.*	32.7	11.2	175.7	195.9	355.3	302.0
	Barley—						
	Dressed Grain bush.	22.7	20.9	23.8	27.9	32.2	36.8
	Total Straw ... cwt.	13.9	13.7	14.0	16.0	19.5	22.6
	Beans—						
	Dressed Grain bush.	—	13.1	—	18.2	—	22.3
	Total Straw ... cwt.	—	9.2	—	13.2	—	15.3
	Clover Hay ... cwt.	—	28.3	—	54.1	—	55.0
	Wheat—						
	Dressed Grain bush.	24.2	22.8	28.5	31.2	29.5	31.2
	Total Straw ... cwt.	23.7	21.7	29.0	30.3	31.4	30.4
PRESENT COURSE (20th), 1924, 1925 and 1926.							
1924	Roots (Turnips) ... cwt.	2.9	0.7	42.8	31.5	127.4	104.7
1925	Barley—						
	Dressed Grain bush.	10.86	7.35	10.09	16.70	10.35	8.60
	Offal Grain ... lb.	42.0	49.0	94.0	38.0	53.0	59.0
	Straw ... lb.	633.0	678.0	602.0	866.0	626.0	541.0
	Total Straw ... cwt.	7.2	7.5	7.4	9.3	7.0	6.5
	Wt. of Dressed Grain per bush. } lb.	52.7	51.6	52.5	53.6	53.3	54.3
	Proportion of Total Grain to 100 of Total Straw }	76.3	50.7	75.5	89.2	77.0	72.4
1926	Clover Hay ... cwt.	—	14.2	—	32.2	—	26.3

* Plots 1, 3 and 5 based upon 18 years. Plots 2, 4 and 6 based upon 17 years.

METEOROLOGICAL RECORDS, 1925 and 1926.

	Rain.		Drainage through soil.			Bright Sunshine.	Temperature (Mean).				
	Total Fall. $\frac{1}{1000}$ Acre Gauge.	No. of Rainy Days. (0.01 inch or more) $\frac{1}{1000}$ Acre Gauge.	20 ins. deep.	40 ins. deep.	60 ins. deep.		Max.	Min.	1 ft. in ground.	Solar Max.	Grass Min.
1925	Inches.	No.	Inches.	Inches.	Inches.	Hours.	°F.	°F.	°F.	°F.	°F.
Jan. ...	2.053	18	1.804	1.870	1.845	52.7	44.6	34.6	39.6	64.2	32.2
Feb. ...	3.940	16	3.413	3.452	3.457	68.3	45.3	35.7	40.0	83.4	31.7
Mar. ...	1.219	12	0.340	0.442	0.426	89.3	45.0	34.5	39.2	91.8	30.2
April ...	1.703	16	0.149	0.183	0.169	139.6	52.1	37.1	44.3	106.8	32.7
May ...	2.480	18	0.391	0.534	0.486	204.7	60.8	44.7	52.4	121.2	40.7
June ...	0.121	2	0.002	0.033	0.043	259.5	68.0	48.2	59.6	119.4	43.1
July ...	4.428	15	1.573	1.343	1.284	183.6	70.9	53.4	62.4	125.5	48.4
Aug. ...	2.972	15	1.048	1.180	1.095	133.1	65.8	52.8	60.1	116.9	49.1
Sept. ...	3.287	18	1.528	1.605	1.501	124.3	58.6	46.0	53.7	112.0	40.9
Oct. ...	3.013	14	2.078	2.203	2.037	102.9	56.5	44.2	51.0	97.7	39.9
Nov. ...	2.241	15	1.481	1.706	1.616	90.6	43.4	34.1	42.2	76.6	29.8
Dec. ...	2.127	16	1.900	2.052	1.903	57.8	41.3	31.3	36.3	60.6	27.6
Total or Mean	29.584	175	15.707	16.603	15.862	1506.4	54.4	41.4	48.4	98.0	37.2
1926											
Jan. ...	3.511	19	3.169	3.387	3.260	45.7	43.9	32.5	38.4	66.2	29.6
Feb. ...	2.494	17	2.112	2.431	2.298	40.6	48.4	39.5	42.1	72.5	35.4
Mar. ...	0.215	5	0.003	0.049	0.041	119.9	49.4	36.9	42.3	99.3	30.5
April ...	2.963	16	0.861	0.938	0.862	108.2	55.3	40.7	46.4	105.9	35.3
May ...	1.945	18	0.369	0.653	0.581	153.6	57.4	42.9	50.5	117.1	38.3
June ...	3.014	13	0.943	1.258	1.157	180.7	63.3	47.9	57.8	123.9	42.9
July ...	2.787	11	0.291	0.442	0.384	151.5	68.6	54.5	61.5	123.9	50.5
Aug. ...	1.190	9	—	0.035	0.033	195.2	69.0	52.8	60.9	122.8	47.4
Sept. ...	1.788	11	0.576	0.659	0.600	133.2	65.8	51.3	59.3	112.8	46.3
Oct. ...	2.672	14	1.149	1.230	1.135	98.5	52.4	40.3	48.9	95.9	35.7
Nov. ...	5.321	24	4.520	4.840	4.644	45.0	47.7	37.4	43.3	75.8	33.0
Dec. ...	0.477	6	0.329	0.525	0.467	64.5	42.3	33.8	38.8	67.8	29.9
Total or Mean	28.377	163	14.322	16.447	15.462	1336.6	55.3	42.5	49.2	98.7	37.9

RAIN AND DRAINAGE.
MONTHLY MEAN FOR 56 HARVEST YEARS, 1870-1—1925-6.

	Rainfall.	Drainage.			Drainage % of Rainfall.			Evaporation.		
		20-in. Gauge	40-in. Gauge	60-in. Gauge	20-in. Gauge	40-in. Gauge	60-in. Gauge	20-in. Gauge	40-in. Gauge	60-in. Gauge
September	Ins.	Ins.	Ins.	Ins.	%	%	%	Ins.	Ins.	Ins.
September	2.384	0.785	0.753	0.689	32.9	31.6	28.9	1.599	1.631	1.695
October ...	3.161	1.830	1.789	1.662	57.9	56.6	52.6	1.331	1.372	1.499
November	2.725	2.055	2.091	1.971	75.4	76.7	72.3	0.670	0.634	0.754
December	2.857	2.439	2.525	2.411	85.4	88.4	84.4	0.418	0.332	0.446
January ...	2.389	1.942	2.123	2.043	81.3	88.9	85.5	0.447	0.266	0.346
February	2.039	1.515	1.618	1.545	74.3	79.4	75.8	0.524	0.421	0.494
March ...	2.027	1.091	1.221	1.154	53.8	60.2	56.9	0.936	0.806	0.873
April ...	2.053	0.660	0.730	0.696	32.1	35.6	33.9	1.393	1.323	1.357
May ...	2.054	0.484	0.550	0.516	23.6	26.8	25.1	1.570	1.504	1.538
June ...	2.245	0.560	0.588	0.567	24.9	26.2	25.3	1.685	1.657	1.678
July ...	2.746	0.726	0.748	0.696	26.4	27.2	25.3	2.020	1.998	2.050
August ...	2.662	0.699	0.704	0.660	26.3	26.4	24.8	1.963	1.958	2.002
Year ...	29.342	14.786	15.440	14.610	50.4	52.6	49.8	14.556	13.902	14.732

Area of each gauge $\frac{1}{10000}$ acre.

MANGOLDS, BARN FIELD, 1925 and 1926.

Roots since 1856. Mangolds since 1876.

Produce per Acre.

Strip.	Strip Manures.	Cross Dressings.				
		O.	N.	A.	A.C.	C.
		None.	Nitrate of Soda.	Ammon. Salts.	Ammon. Salts and Rape Cake.	Rape Cake.
		Tons	Tons	Tons	Tons	Tons
1	Dung only	{ R. 14.28 L. 2.77	{ 25.55 5.98	{ 19.14 6.35	{ 18.99 6.74	{ 18.20 5.77
2	Dung, Super., Potash ...	{ R. 16.19 L. 2.98	{ 27.13 6.41	{ 25.21 6.26	{ 23.22 7.28	{ 23.25 6.49
4	Complete Minerals ...	{ R. 3.25 ^a L. 0.93 ^b	{ R.16.84* L. 4.98 R.16.90 L. 5.65	{ 14.27 3.68	{ 22.43 6.05	{ 16.07 3.98
5	Superphosphate only ...	{ R. 3.64 L. 1.12	{ 14.01 4.32	{ 6.10 3.69	{ 6.30 4.51	{ 6.63 4.26
6	Super. and Potash ...	{ R. 4.16 L. 1.11	{ 14.31 4.36	{ 13.91 3.59	{ 18.18 5.90	{ 13.46 3.66
7	Super., Sulphate of Mag., and Sodium Chloride	{ R. 3.49 L. 1.00	{ 14.81 3.23	{ 14.21 3.05	{ 13.37 5.25	{ 12.09 3.38
8	None	{ R. 2.32 L. 1.01	{ 4.94 3.37	{ 2.81 2.23	{ 5.25 3.39	{ 4.03 2.32
9	Sodium Chloride, Nit. Soda, Sulph. Potash, and Sulph. Mag. ...	{ R. 17.08 L. 3.83	{ — —	{ — —	{ — —	{ — —
		Tons	Tons	Tons	Tons	Tons
1	Dung only	{ R. 21.16 L. 3.39	{ 31.39 4.58	{ 21.77 4.24	{ 18.35 3.81	{ 19.39 4.88
2	Dung, Super., Potash ...	{ R. 23.80 L. 3.25	{ 34.72 4.83	{ 30.84 5.22	{ 30.08 6.07	{ 27.90 5.47
4	Complete Minerals ...	{ R. 4.75 ^a L. 0.85 ^b	{ R.24.07* L. 3.93 R.23.75 L. 4.51	{ 19.52 2.92	{ 25.77 4.12	{ 16.39 2.52
5	Superphosphate only ...	{ R. 4.81 L. 0.86	{ 18.39 2.67	{ 9.25 2.17	{ 8.29 2.25	{ 10.28 2.39
6	Super. and Potash ...	{ R. 5.41 L. 0.89	{ 20.80 3.02	{ 17.86 2.58	{ 21.05 4.12	{ 13.29 1.94
7	Super., Sulphate of Mag., and Sodium Chloride	{ R. 5.28 L. 0.96	{ 21.27 3.24	{ 18.86 3.08	{ 20.00 3.94	{ 11.66 2.36
8	None	{ R. 3.36 L. 0.81	{ 13.97 3.72	{ 7.83 3.02	{ 7.73 2.41	{ 8.04 2.57
9	Sodium Chloride, Nit. Soda, Sulph. Potash and Sulph. Mag. ...	{ R. 25.09 L. 3.11	{ — —	{ — —	{ — —	{ — —

R.=roots. L.=leaves.

* From 1904 onwards plot 4 N has been divided, 4a receiving Sulphate of Potash, Sulphate of Magnesia, Sodium Chloride and Nitrate of Soda; 4b receiving Calcium Chloride, Potassium Nitrate and Calcium Nitrate.

HAY. THE PARK GRASS PLOTS. 1925, 1926.

Plot	Manuring per acre	1925						1926						Plot	
		Yield of Hay per acre			Dry Matter per acre			Yield of Hay per acre			Dry Matter per acre				
		1st Crop	2nd Crop	Total	1st Crop	2nd Crop	Total	1st Crop	2nd Crop	Total	1st Crop	2nd Crop	Total		
1	Single dressing Amm. Salts (=43 lb. N.) ; (with Dung also 8 years, 1856-63) ...	15.1	16.1	31.2	1418	1268	2686	lb.	16.5	9.8	26.3	1602	881	2483	1
2	Unmanured (after Dung 8 years, 1856-63)	23.1	14.9	38.0	2075	1155	3230	lb.	21.9	9.2	31.1	2111	823	2934	2
3	Unmanured ...	21.7	12.8	34.5	1987	884	2871	lb.	16.3	8.5	24.8	1406	764	2170	3
4-1	Superphosphate of Lime ...	12.5	11.7	24.2	1122	871	1993	lb.	11.8	9.0	20.8	1026	807	1833	4-1
4-2	Superphosphate of Lime and double dressing Amm. Salts (=86 lb. N.) ...	22.5	14.6	37.1	1971	971	2942	lb.	16.8	10.6	27.4	1511	952	2463	4-2
5-1	(N. half) Unmanured following double dressing Amm. Salts (=86 lb. N.) 1856-97 ...	20.2	12.3	32.5	1839	839	2678	lb.	14.5	7.6	22.1	1229	682	1911	5-1
5-2	(S. half) Superphosphate, Sulphate of Potash; following double dressing Amm. Salts (=86 lb. N.) 1856-68 ...	22.6	7.3	29.9	1812	570	2382	lb.	24.6	6.6	31.2	1843	595	2438	5-2
6	Complete Mineral Manure as plot 7; following double dressing Amm. Salts (=86 lb. N.) 1856-68 ...	32.7	16.7	49.4	3126	1326	4452	lb.	37.1	10.1	47.2	3259	901	4160	6
7	Complete Mineral Manure ...	13.9	8.0	21.9	1288	625	1913	lb.	12.6	8.8	21.4	1169	792	1961	7
8	Mineral Manure without Potash ...	24.2	14.9	39.1	2187	1152	3339	lb.	24.2	10.6	34.8	2137	951	3088	8
9	Complete Mineral Manure and double dressing Amm. Salts (=86 lb. N.) ...	26.6	23.1	49.7	2320	1329	3649	lb.	31.5	15.7	47.2	2835	1402	4237	9
10	Mineral Manure (without Potash) and double dressing Amm. Salts (=86 lb. N.) ...	28.2	22.8	51.0	2480	1403	3883	lb.	32.2	18.4	50.6	2949	1651	4600	10
11-1	Complete Mineral Manure and treble dressing Amm. Salts (129 lb. N.) ...	35.0	19.1	54.1	2900	1051	3951	lb.	32.8	14.0	46.8	3450	1251	4701	11-1

11-2	As plot 11-1 and Silicate of Soda	49.5	30.3	79.8	44.24	1950	6374	59.4	24.4	83.8	4535	2188	6723	11-2
12	Unmanured	63.9	26.4	90.3	5847	2150	7997	58.3	28.4	86.7	4860	2548	7408	12
13	Dung 1905, and every fourth year since (omitted 1917), Fish Guano in 1907 and every fourth year since	17.6	13.1	30.7	1630	1000	2630	18.4	15.4	33.8	1646	1376	3022	13
14	Complete Mineral Manure and double dressing Nitrate of Soda (=86 lb. N.)	45.8	26.9	72.7	4099	1461	5560	45.6	24.0	69.6	3767	2147	5914	14
15	Complete Mineral Manure as plot 7; following double dressing Nitrate of Soda (=86 lb. N. 1858-1875)	38.5	25.3	63.8	3536	1406	4942	41.1	21.9	63.0	3465	1964	5429	15
16	Complete Mineral Manure and single dressing Nitrate of Soda (=43 lb. N.)	61.1	25.2	86.3	4709	1886	6595	56.2	23.0	79.2	4626	2064	6690	16
17	Complete Mineral Manure and single dressing Nitrate of Soda (=43 lb. N.)	58.4	20.0	78.4	4725	1413	6138	55.9	16.7	72.6	4469	1499	5968	17
18	Single dressing Nitrate of Soda (=43 lb. N.)	47.4	11.3	58.7	3846	781	4627	49.6	5.2	54.8	4181	465	4646	18
19	Mineral Manure (without Super.), and double dressing Sulphate of Amm. (=86 lb. N.) 1905 and since; following Minerals and Amm. Salts supplying the constituents of 1 ton of Hay, 1865-1904	33.5	25.8	59.3	2854	1650	4504	30.5	19.5	50.0	2674	1750	4424	19
20	Farmyard Dung in 1905 and every fourth year since (omitted in 1917) following Nitrate of Soda (=43 lb. N.) and Minerals, 1872-1904	29.2	21.6	50.8	2676	1555	4231	25.8	13.4	39.2	2442	1196	3638	20
		41.6	21.6	63.2	3480	1409	4889	38.6	18.8	57.4	2993	1688	4681	
		44.1	18.5	62.6	3763	1273	5036	38.0	17.1	55.1	3046	1529	4575	
		26.8	15.9	42.7	2137	1024	3161	23.1	12.5	35.6	2010	1123	3133	
		30.8	14.9	45.7	2633	999	3632	28.5	12.6	41.1	2571	1127	3698	
		17.7	14.6	32.3	1690	895	2585	19.4	24.0	43.4	1689	2147	3836	
		36.5	21.7	58.2	3372	1253	4625	49.7	24.2	73.9	4086	2165	6251	
		29.8	18.7	48.5	2757	974	3731	39.1	19.0	58.1	3039	1703	4742	
		29.4	18.4	47.8	2398	1123	3521	34.7	17.5	52.2	3106	1569	4675	
		27.0	15.0	42.0	2421	849	3270	30.0	8.7	38.7	2771	777	3548	
		27.0	14.1	41.1	2282	902	3184	32.6	10.8	43.4	3108	970	4078	
		35.8	*	*	3010	*	*	47.1	18.1	65.2	4693	1625	6318	
		30.4	15.0	45.4	2654	1033	3687	43.9	11.5	55.4	4246	1027	5273	
		41.6	14.4	56.0	3513	977	4490	43.3	16.6	59.9	4243	1488	5731	

Ground lime was applied to the Southern portion (limed) of the plots at the rate of 2,000 lb. to the acre in the Winter of 1903-4, 1907-8, 1915-16, 1923-24, and at the rate of 2,500 lb. to the acre in the Winter of 1920-21, except where otherwise stated.

Up to 1914 the limed and unlimed plot results were not separately given in the Annual Report, but the mean of the two was given. From 1915 onwards the separate figures are given.

* Figures for this plot not recorded.

§ The second crop was carted green; the figures given are estimated hay yields, calculated from the dry matter.

The Park Grass Plots.
BOTANICAL COMPOSITION, PER CENT. 1923, 1st CROP.

Plot	Manuring	Liming	Gramineæ	Leguminosæ	Others	"Other Orders" consist largely of	Plot
3	Unmanured	Limed ...	63.7	4.6	31.6	Plantago lanceolata; Poterium sanguisorba; Luzula campestris	3
7	Complete Mineral Manure	Unlimed ...	63.6	10.6	25.8	Plantago lanceolata; Centaurea nigra; Poterium sanguisorba	7
9	Complete Mineral Manure and double Amm. Salts	Limed ...	52.7	40.1	7.1	Achillea millefolium; Ranunculus sp.	9
14	Complete Mineral Manure and double Nitrate of Soda	Unlimed ...	69.1	15.2	15.7	Plantago lanceolata; Spiræa ulmaria, etc.	14
15	As plot 7 following double Nitrate of Soda, 1858-75	Limed ...	99.4	—	0.6	Rumex acetosa	15
17	Single Nitrate of Soda	Unlimed ...	99.7	—	0.2	Rumex acetosa	17
18	Mineral Manure (without Super.) and double Sulphate Amm. 1905 and since	Limed ...	96.0	0.8	3.2	Taraxacum vulgare	18
19	Farmyard Dung in 1905 and every 4th year since (omitted in 1917)	Unlimed ...	93.7	0.1	6.2	Taraxacum vulgare; Anthriscus sylvestris; Rumex acetosa	19
20	Farmyard Dung in 1905 and every 4th year since (omitted in 1917), each intervening year Sulphate Potash, Super., and Nitrate of Soda	Limed ...	69.2	18.3	12.4	Plantago lanceolata; Conopodium denudatum; Taraxacum vulgare	20
		Unlimed ...	57.8	15.4	26.8	Plantago lanceolata; Luzula campestris; Conopodium denudatum	
		Limed ...	73.9	1.2	24.9	Plantago lanceolata; Leontodon hispidus; Centaurea nigra	
		Unlimed ...	65.6	0.1	34.3	Plantago lanceolata; Leontodon hispidus; Centaurea nigra	
		L. 6,788 lb.	87.4	—	12.6	Rumex acetosa	
		L. 3,951 lb.	85.6	—	14.4	Rumex acetosa	
		Unlimed ...	96.8	0.1	3.0	Rumex acetosa	
		L. 3,150 lb.	72.4	17.0	10.6	Ranunculus sp.; Plantago lanceolata; Conopodium denudatum	
		L. 570 lb.	79.2	10.0	10.7	Ranunculus sp.; Rumex acetosa; Conopodium denudatum	
		Unlimed ...	78.5	7.4	14.1	Ranunculus sp.; Rumex acetosa; Anthriscus sylvestris	
		L. 2,772 lb.	82.7	5.3	11.9	Anthriscus sylvestris; Ranunculus sp.; Conopodium denudatum; Tragopogon pratensis	
		L. 570 lb.	82.5	10.6	6.8	Ranunculus sp.; Conopodium denudatum	
		Unlimed ...	88.2	2.5	9.3	Anthriscus sylvestris; Rumex acetosa; Ranunculus sp.	

The Park Grass Plots—*contd.*
BOTANICAL COMPOSITION, PER CENT. 1924, 1st CROP.

Plot	Manuring	Liming	Gramineae	Leguminosae	Other Orders	"Other Orders" consist largely of	Plot
3	Unmanured	Limed ...	51.2	14.5	34.3	Centaurea nigra; Scabiosa arvensis; Plantago lanceolata; Poterium sanguisorba	3
5-1	(N. half, Unmanured following double dressing of Amm. Salts (=86 lb. N.), 1856-97)	Unlimed ...	50.0	8.0	42.0	Plantago lanceolata; Centaurea nigra; Leontodon hispidus; Poterium sanguisorba	5-1
5-2	(S. half, Super., Sulphate of Potash; following double dressing of Amm. Salts (=86 lb. N.), 1856-97)	Unlimed ...	68.0	1.7	30.3	Centaurea nigra; Scabiosa arvensis; Rumex acetosa	5-2
7	Complete Mineral Manure	Unlimed ...	57.3	17.6	25.1	Rumex acetosa; Centaurea nigra; Luzula campestris; Achillea millefolium	7
9	Complete Mineral Manure and double Amm. Salts	Limed ...	36.9	51.8	11.3	Heracleum sphondylium; Centaurea nigra	9
14	Complete Mineral Manure and double Nitrate of Soda	Unlimed ...	47.1	33.3	19.6	Plantago lanceolata; Heracleum sphondylium; Conopodium denudatum; Achillea millefolium	14
18	Mineral Manure (without Super.) and double Sulphate Amm., 1905 and since	Limed ...	98.8	0.1	1.0	Conopodium denudatum; Rumex acetosa	18
19	Farmyard Dung in 1905 and every 4th year since (omitted in 1917)	Unlimed ...	98.7	0.2	1.0	Heracleum sphondylium; Potentilla reptans	19
20	Farmyard Dung in 1905 and every 4th year since (omitted in 1917)	Unlimed ...	84.9	6.2	8.9	Taraxacum vulgare; Anthriscus sylvestris	20
	Potash, Super. and Nitrate of Soda	Unlimed ...	90.2	0.4	9.4	Anthriscus sylvestris; Taraxacum vulgare	
		Unlimed ...	91.8	0.1	8.1	Rumex acetosa; Conopodium denudatum	
		L. 6,788 lb.	86.6	0.2	13.2	Rumex acetosa; Conopodium denudatum; Centaurea nigra	
		L. 3,951 lb.	86.2	—	13.8	Heracleum sphondylium; Rumex acetosa	
		Unlimed ...	66.9	19.7	13.3	Ranunculus sp.; Taraxacum vulgare; Conopodium denudatum	
		L. 3,150 lb.	69.0	21.6	9.4	Ranunculus sp.; Conopodium denudatum; Cerastium vulgatum	
		L. 570 lb.	66.7	20.0	13.3	Ranunculus sp.; Conopodium denudatum; Centaurea nigra; Rumex acetosa	
		Unlimed ...	65.5	23.4	11.1	Taraxacum vulgare; Anthriscus sylvestris; Ranunculus sp.	
		L. 2,772 lb.	57.8	30.5	11.7	Ranunculus sp.; Taraxacum sp.	
		L. 570 lb.	71.2	16.8	12.0	Ranunculus sp.; Centaurea nigra	
		Unlimed ...					

WHEAT. BROADBALK FIELD, 1925.

Plot.	Manurial Treatment.	Top Portion.						Bottom Portion.						74 year Average 1852-1925.	
		Dressed Grain.		Ofal Grain per Acre.	Straw per Acre.	Total Straw per Acre.	Proportion of Total Grain to 100 of Total Straw.	Dressed Grain.		Ofal Grain per Acre.	Straw per Acre.	Total Straw per Acre.	Proportion of Total Grain to 100 of Total Straw.	Dressed Grain per Acre.	Total Straw per Acre.
		Yield per Acre.	Weight per Bushel.					Yield per Acre.	Weight per Bushel.						
2A	Farmyard Manure ...	10.5	58.4	88	1500	17.7	35.3	14.9	58.5	82	1591	19.1	44.6	26.8*	32.1*
2B	Farmyard Manure ...	15.1	59.1	151	1807	21.3	43.9	19.1	58.6	228	1907	22.8	52.9	33.5	34.2
3	Unmanured ...	6.7	58.8	49	518	5.8	68.3	5.7	58.1	37	569	6.5	50.8	11.7	9.8
5	Complete Mineral Manure ...	6.8	58.8	68	502	5.6	74.4	6.8	58.5	51	462	5.3	76.7	13.5	11.5
6	As 5, and Single Amm. Salts ...	10.1	58.7	87	707	8.1	74.7	10.1	58.7	80	784	9.2	65.5	21.7	20.3
7	As 5, and Double Amm. Salts ...	18.6	59.2	93	1558	17.9	59.6	21.4	54.7	100	1768	20.0	56.7	30.4	32.1
8	As 5, and Treble Amm. Salts ...	19.5	59.7	106	2182	25.0	45.5	21.7	59.0	95	1868	22.0	56.0	34.5	39.8
9	As 5, and Single Nitrate of Soda ...	16.3	58.2	45	1362	15.9	55.7	16.0	57.0	55	1534	17.6	49.1	18.8†	24.6†
10	Double Amm. Salts alone ...	14.0	59.2	138	1162	13.6	63.6	10.6	58.5	126	797	10.1	66.3	18.7	17.8
11	As 10, and Superphosphate ...	20.5	58.3	143	1558	17.7	62.3	16.9	57.2	142	1042	13.2	75.0	21.3	21.4
12	As 10, and Super. and Sulph. Soda ...	18.8	59.1	189	1496	17.3	67.0	18.0	58.6	189	1698	19.7	56.2	27.0	26.8
13	As 10, and Super. and Sulph. Potash ...	24.3	59.4	87	1832	21.4	63.8	22.2	59.0	64	2192	24.4	50.2	29.2	30.6
14	As 10, and Super. and Sulph. Magnesia ...	20.2	58.5	77	1556	17.9	62.8	21.7	58.9	78	2275	24.3	49.9	26.7	26.8
15	Double Amm. Salts in Autumn and Minerals ...	20.6	59.7	64	1460	16.6	69.6	16.3	59.5	66	1184	13.9	66.6	27.8	28.2
16	Double Nitrate and Minerals ...	21.2	59.5	104	2002	22.7	53.7	22.0	59.6	118	2175	24.5	52.0	29.9†	35.2†
17)	Minerals alone, or double Amm. Salts alone in	9.7	59.6	68	624	7.1	81.1	10.7	60.0	56	692	8.0	77.9	27.8	27.7
18)	alternate years ...	15.7	60.0	133	1272	14.6	65.8	14.2	59.8	157	1510	16.9	53.2	14.1	12.5
19	Rape Cake alone ...	12.6	59.7	55	1102	12.5	57.7	6.7	58.9	43	971	11.1	35.5	20.8†	22.0†
20	Mineral Manure (without Super.) and Amm. Salts	7.7	60.0	47	1045	11.6	39.1	—	—	—	—	—	—	16.5§	18.6§

* 26 years only, 1900-1925. † 41 years only, 1885-1925. ‡ 33 years only, 1893-1925. § 18 years only, 1906-1925 (no crop in 1912 and 1914).

WHEAT. BROADBALK FIELD, 1926.
Top portion fallowed.

Plot	Manurial Treatment	Dressed Grain		Offal Grain per Acre	Straw per Acre	Total Straw per Acre	Proportion of Total Grain to 100 of Total Straw
		Yield per Acre bush.	Weight per Bushel lb.				
2A	Farmyard Manure	6.8	54.8	113	1979	24.6	17.6
2B	Farmyard Manure	6.5	55.5	133	2675	33.6	13.2
3	Unmanured	0.9	57.5*	9	135	1.8	30.2
5	Complete Mineral Manure	2.2	57.5	17	285	3.5	38.8
6	As 5, and Single Amm. Salts	5.9	56.8	50	1030	13.0	26.5
7	As 5, and Double Amm. Salts	5.7	55.1	91	1985	23.3	15.4
8	As 5, and Treble Amm. Salts	7.5	50.4	118	2973	33.5	13.2
9	As 5, and Single Nitrate of Soda	5.8	54.0	72	1293	16.0	21.8
10	Double Amm. Salts alone	4.4	51.3	84	1030	12.5	22.0
11	As 10, and Superphosphate	4.2	53.0	113	1360	17.7	16.8
12	As 10, and Super. and Sulph. Soda	7.1	54.1	149	1733	21.7	21.9
13	As 10, and Super. and Sulph. Potash	9.3	56.3	123	2205	26.4	21.7
14	As 10, and Super. and Sulph. Magnesia	8.6	54.6	135	1838	22.7	24.1
15	Double Amm. Salts in Autumn and Minerals	5.5	56.4	107	1408	18.9	20.4
16	Double Nitrate and Minerals	7.5	54.4	141	2283	27.8	17.8
17	Minerals alone or Double Amm.	6.4	56.0	88	1508	18.0	22.9
18	Salts alone in alternate years	3.6	56.0	60	668	9.0	27.2
19	Rape Cake alone	4.4	53.4	98	1503	17.6	16.6

* Adopted from plot 5.

RED CLOVER grown year after year on rich Garden Soil,
Rothamsted Garden.

Hay, Dry Matter, and Nitrogen per Acre, 1925 and 1926.

Year	No. of Cuttings	As Hay	Dry Matter	Nitrogen	Seed Sown
1925	2	1525	1270	33	April 17th, Re-seeded June 1st, Patched
1926	2	1248	1040	32	
Averages:					
25 years, 1854—1878		7664	6387	179	
25 years, 1879—1903		3924	3270	101	
20 years, 1904—1923		2640	2200	65	

WHEAT AFTER FALLOW (without Manure 1851,
and since).

Hoos Field, 1925 and 1926.

	1925	1926	Average 70 years 1856-1925
Dressed Grain { Yield per Acre—bushels	5.9	5.24	14.70
{ Weight per Bushel—lb.	58.9	58.2	58.8
Offal Grain per Acre—lb.	33.5	96.0	50.7
Straw per Acre—lb.	623.0	780.0	—
Total Straw per Acre—cwt.	6.8	9.0	12.7
Proportion of Total Grain to 100 of Total Straw	49.8	39.7	—

AVERAGE WHEAT YIELDS of VARIOUS COUNTRIES.

Country	Mean Yield per Acre 1901-10 bushels	Country	Mean Yield per Acre 1901-10 bushels
Great Britain	31.6	Denmark	41.3
England	31.7	Argentina	10.6
Hertfordshire	30.5	Australia	10.1
France	20.2	Canada	19.5
Germany	29.1	United States	14.3
Belgium	35.1	Russia—European	10.0

NOTE.—Figures for Great Britain, England and Hertfordshire are taken from the Board of Agriculture's "Agricultural Statistics," Vol. 46. Other figures from "Annuaire International de Statistique Agricole," 1910-12, and converted at the rate of 60 lb. per bushel.

PERMANENT BARLEY PLOTS. Hoos Field, 1925, 1926.
PRODUCE PER ACRE.

Plot.	Manuring.	1925.						1926.						74 years Average Yield 1852-1926. †	
		Yield per Acre.	Dressed Grain. Bushel.	Offal Grain. lb. per Acre.	Straw. lb. per Acre.	Total Straw. cwt. per Acre.	Proportion of Total Grain to 100 of Total Straw.	Yield per Acre.	Dressed Grain. Bushel.	Offal Grain. lb. per Acre.	Straw. lb. per Acre.	Total Straw. cwt. per Acre.	Proportion of Total Grain to 100 of Total Straw.	Dressed Grain per Acre.	Total Straw per Acre.
1 O	Unmanured ...	6.7	50.8	33	396	5.0	66.9	6.1	51.5	30	382	7.1	42.9	13.6	7.9
2 O	Superphosphate only ...	10.9	52.3	44	594	7.6	72.5	12.2	53.1	32	569	8.3	72.6	19.2	9.8
3 O	Alkali Salts only ...	5.0	50.0	26	355	4.5	54.0	4.8	50.8	41	374	5.7	39.6	14.5	8.6
4 O	Complete Minerals ...	7.1	51.8	43	470	6.3	58.0	12.9	52.5	135 ^a	875	13.2	55.3 ^a	19.3	11.0
5 O	Potash and Superphosphate ...	8.1	52.3	33	451	5.9	69.4	9.9	52.5	39	622	9.6	51.9	15.7	9.5
1 A	Ammonium Salts only ...	9.4	49.5	39	693	8.5	53.3	12.0	51.9	52	836	11.9	50.5	24.0	13.8
2 A	Superphosphate and Amm. Salts ...	19.0	52.5	147	1037	13.2	77.5	26.1	52.1	63	1546	18.9	67.4	36.4	20.7
3 A	Alkali Salts and Amm. Salts ...	11.0	51.8	55	864	10.9	51.2	11.3	50.6	65	1009	13.0	43.8	26.2	16.1
4 A	Complete Minerals and Amm. Salts ...	19.3	51.7	116	1372	16.6	59.6	30.1	51.7	74	2054	23.6	61.7	39.9	23.8
5 A	Potash, Super. and Amm. Salts ...	21.8	53.3	122	1436	17.5	65.4	24.2	53.0	50	1645	20.7	57.4	34.4	21.9
1 AA	Nitrate of Soda only ...	12.6	50.3	52	825	10.2	60.0	15.9	52.9	62	1084	16.0	50.6	24.5*	15.4*
2 AA	Super. and Nitrate of Soda ...	29.9	53.7	165	1623	20.2	78.3	31.0	52.1	78	1986	23.6	64.1	39.3*	23.3*
3 AA	Alkali Salts and Nitrate of Soda ...	10.0	50.0	76	803	10.4	49.4	10.3	50.3	70	1051	16.8	31.4	24.9*	16.5*
4 AA	Complete Minerals and Nitrate of Soda ...	18.7	53.0	96	1342	15.5	62.5	27.9	51.0	89	2167	24.5	55.1	38.2*	23.7*
1 AAS	As Plot 1 AA and Silicate of Soda ...	13.8	52.0	69	941	12.1	58.0	21.0	53.3	70	1359	17.7	59.9	30.5*	18.4*
2 AAS	" " 2 AA " " " "	26.3	53.6	124	1381	17.5	78.2	37.8	52.0	94	2316	27.7	66.4	40.3*	24.2*
3 AAS	" " 3 AA " " " "	12.5	52.3	96	963	12.2	54.8	16.6	52.3	107	1271	17.9	48.7	31.7*	20.1*
4 AAS	" " 4 AA " " " "	17.9	52.9	66	1364	16.8	53.6	35.0	51.5	95	2299	27.0	62.8	40.6*	25.7*
1 C	Rape Cake only ...	24.5	52.9	87	1955	18.1	68.3	24.5	52.4	60	1559	19.1	62.9	35.9	20.7
2 C	Superphosphate and Rape Cake ...	21.9	54.4	128	1331	15.8	74.8	33.6	51.5	63	2019	23.4	68.4	38.4	22.1
3 C	Alkali Salts and Rape Cake ...	12.7	52.8	99	1001	12.5	54.7	20.4	52.2	39	1570	18.8	52.3	34.2	20.6
4 C	Complete Minerals and Rape Cake ...	21.3	53.2	85	1298	15.5	69.9	34.6	52.0	64	2107	25.5	65.2	38.0	22.8
7-1	Unmanured (after dung 20 years, 1852-71)	7.0	51.5	76	475	6.3	61.7	11.0	53.3	48	725	10.9	51.6	22.8†	13.7†
7-2	Farmyard Manure ...	22.0	52.3	121	1158	15.9	71.4	35.8	52.1	88	2331	27.6	63.3	45.1	28.1
6-1	Unmanured ...	5.7	50.5	54	354	4.9	62.6	7.1	51.5	50	485	7.8	47.3	14.9	8.7
6-2	Ashes from Laboratory furnace ...	7.5	51.0	36	431	5.6	66.4	9.6	52.4	43	620	8.7	55.6	15.9	9.4
1 N	Nitrate of Soda only ...	11.8	51.8	80	820	11.3	54.7	14.3	52.0	70	1078	16.0	45.4	29.0§	18.0§
2 N	" " " " " "	16.8	53.3	63	1172	14.0	61.2	20.0	52.5	85	1436	19.6	51.6	32.1§§	20.1§§

* 58 years, 1868-1926. † 54 years, 1872-1926. § 73 years, 1853-1926. §§ 67 years, 1859-1926.
^a A large amount of black medic seed in Offal Grain.

Little Hoos Field. Swedes, 1926.
Produce per acre. Roots and Leaves in Tons.

Manurial Treatment		Roots	Leaves	Total	Season of last Dressing
A 1	Control	<i>12.61</i>	<i>2.31</i>	<i>14.92</i>	—
2	Ordinary Dung, 16 tons	21.79	3.94	25.73	1926
3		11.46	2.87	14.33	1921
4		8.25	2.44	10.69	1922
5		9.20	2.53	11.73	1924
B 1	Cake-fed Dung, 16 tons	21.11	3.75	24.86	1926
2	Control	<i>13.30</i>	<i>2.62</i>	<i>15.92</i>	—
3	Cake-fed Dung, 16 tons	14.95	2.99	17.94	1921
4		13.88	3.09	16.97	1922
5		12.74	2.94	15.68	1924
C 1		Shoddy; Superphosphate; Sulphate of Potash	16.74	3.01	19.75
2	Control	<i>13.44</i>	<i>2.62</i>	<i>16.06</i>	1921
3	Control	<i>10.28</i>	<i>2.32</i>	<i>10.60</i>	—
4	Shoddy; Superphosphate	5.72	1.56	7.28	1922
5	Sulphate of Potash	1.87	0.56	2.43	1924
D 1	Guano; Sulphate of Ammonia	17.31	3.20	20.51	1926
2	Sulphate of Potash	13.71	2.68	16.39	1921
3	Control	<i>12.96</i>	<i>2.79</i>	<i>15.75</i>	1922
4	Control	<i>11.34</i>	<i>2.36</i>	<i>13.70</i>	—
5		Guano; Sulphate of Ammonia, Sulphate of Potash	13.79	3.41	17.20
E 1	Rape Dust; Superphosphate	16.86	2.89	19.75	1926
2	Sulphate of Potash	11.64	2.55	14.19	1921
3	Control	8.71	2.08	10.79	1922
4	Control	14.36	2.62	16.98	1924
5	Control	<i>10.81</i>	<i>2.42</i>	<i>13.22</i>	—
F 1	Control	<i>7.20</i>	<i>1.78</i>	<i>8.98</i>	—
2	Superphosphate; Sulphate of Ammonia; Sulphate of Potash	15.54	2.85	18.39	1926
3		5.95	1.40	7.35	1921
4		6.59	1.41	8.00	1922
5		11.60	2.00	13.60	1924
G 1	Bone Meal; Sulphate of Ammonia; Sulphate of Potash	14.46	2.97	17.43	1926
2	Control	7.08	1.88	8.96	1921
3	Control	<i>3.86</i>	<i>1.09</i>	<i>4.95</i>	—
4	Bone Meal; Sulphate of Ammonia; Sulphate of Potash	6.84	1.75	8.59	1922
5	Control	8.89	2.02	10.91	1924
H 1	Basic Slag; Sulphate of Ammonia; Sulphate of Potash	13.40	2.08	15.48	1926
2	Control	9.50	1.88	11.38	1921
3	Control	9.47	1.94	11.41	1922
4	Control	9.88	1.85	11.73	1924
5	Control	<i>4.76</i>	<i>1.47</i>	<i>6.23</i>	—

1925, field fallowed.

NOTES.—Since 1919 the manure for each plot (except of series A and B) has been rationed at 40 lb. Nitrogen, 100 lb. Calcium Phosphate and 50 lb. Potash per acre. Each plot has been supplied with as much of its particular manure (shoddy, guano, etc.) as possible without exceeding the receipt in any of the three rationed ingredients. Any deficit in either of these three has been made good by adding the necessary quantity of Sulphate of Ammonia, Superphosphate, or Sulphate of Potash. No manure was applied for 1923 crop.

Figures in italics denote unmanured plots. The yield on the plots to which the manure was applied in a given season are printed in heavy type.

Hay. Great Field, 1925 and 1926.

Plot.	Manurial Treatment. Quantities per Acre.	Yield per Acre.		Yield per Acre.		Dry Matter per Acre.	
		1925.		1926.		1926.*	
		No Potash. cwt.	With Potash. cwt.	No Potash. cwt.	With Potash. cwt.	No Potash. lb.	With Potash. lb.
1 A	High Grade Slag, No. 12, 1,170 lb.	38.2	34.8	41.6	40.4	3628	3519
1 B		48.4	42.9	43.2	37.5	3776	3381
2 A	Open Hearth Slag, No. 13, 1,925 lb.	36.3	37.9	36.3	42.3	3159	3741
2 B		45.0	35.0	37.3	39.5	3214	3688
3 A	Open Hearth Slag, No. 14, 1,930 lb.	39.8	34.3	35.5	38.4	3198	3336
3 B		40.7	32.3	37.5	40.9	3384	3730
4 A	Gafsa Phosphate 750 lb. ...	47.0	32.7	39.6	41.1	3358	4129
4 B		42.5	32.7	37.3	42.3	3252	3940
A C	Control. No Manure ...	37.0	34.1	31.8	43.0	2853	3648
B C		45.2	35.7	40.2	38.2	3154	3397
7 C	Nauru Phosphate 263 lb. ...	37.1	35.5	—	—	—	—
7 D		33.6	32.9	—	—	—	—
8 C	Nauru Slag Phosphate, No. 8, 411 lb.	36.4	31.3	—	—	—	—
8 D		30.7	31.4	—	—	—	—
1 C	High Soluble Slag, No. 1, 872 lb.	33.6	38.8	—	—	—	—
2 C	Low Soluble Slag, No. 2, 1,225 lb.	30.7	33.4	—	—	—	—
3 C	Gafsa Phosphate, 347 lb. ...	30.5	36.1	—	—	—	—
4 C	Tunisian Phosphate, 336 lb. ...	33.4	34.8	—	—	—	—
5 C	Florida Phosphate, 292 lb. ...	36.4	35.5	—	—	—	—
C C	Control. No Manure ...	27.9	32.0	—	—	—	—
D C		30.0	27.1	—	—	—	—

Kainit at 4 cwt. per acre, applied January 28th, 1924.
 * Dry Matter determinations were not made in 1925.
 Series C and D were discarded in 1926.

Great Knott Field, 1926.

Produce per Acre.

Wheat Varieties	Dressed Yield per Acre. bush.	Grain Weight per bush. lb.	Straw per Acre lb.	Total Straw per Acre. cwt.	Proportion of Total Grain to 100 Total Straw
Red Standard ...	30.7	61.4	3105	31.4	54.6
Browick A ...	36.8	58.7	4118	42.8	49.4
Browick B ...	36.2	57.7	3406	35.5	53.5
Little Joss A ...	45.9	62.6	4795	48.3	55.5
Little Joss B ...	46.5	61.8	4630	47.2	57.4
R. Million A ...	37.1	61.4	3900	43.5	48.9
R. Million B ...	37.4	61.2	3224	38.9	54.8