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Memoranda of the Field Experiments at Rothamsted, May 1872



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Experiments on Barley; Hoos Field

Rothamsted Research

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HOOS FIELD.

Lime, the Roots carted off; 1848, Barley; 1849, Clover; 1850, Wheat; 1851, Barley manured 50 year after year EXPERIMENTS ON THE GROWTH OF BARLEY KEAB AFTER YEAR ON THE SAME LAND, WITHOUT MANURE, AND WITH DIFFERENT KINDS OF MANURE. applied peen has the foot-notes, the same Manure unless stated to the contrary in Dung and Superphosphate of since; and, Barley every year Previous Cropping—1847, Swedish Turnips, with with Ammonia-salts.

First Experimental Barley Crop in 1852. Barley the same Plot.

(Area under experiment, about 44 acres.)

1 mary									(3)`					
1 may 1 ma			Plots.										5 O. 5 A. M.	$\frac{1}{2}$ }6	7
			1, 1871.	Total Straw.			cwts. 11 124 114 114	2 2 2 8 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	255 255 255 255 255 255 255 255 255 255	293 363 313 38	273 274 304 32	204	131 293 144	138	37 <u>1</u>
		PRODUCE PER ACRE,	cieth Seasor	ed Corn.	Weight per Bushel,		10s. 55 55 55 55	553 55 561 561	54 56 54 56 56	で 1 1 1 1 1 1 1 1 1 1 1 1 1	563 563 564	544 544 844 844	55 25 25 25 25 25 25 25 25 25 25 25 25 2	553 547	563
1 kmcs			Twent	Dress		Quantily.	Bushels. 164 231 194 25	36 44 38 14 14 14 14 14 14 14 14 14 14 14 14 14	391 46 1 364 46	483 493 483 49	44 45 47 47 47		20 223 223	183 241	544
1 kmes			m, over -1871.	Total Straw.			cwts. 113 133 124 148	27.25 20.03	22 82 82 82 82 82 82 82 82 82 82 82 82 8	$\frac{217}{29}$ $\frac{29}{257}$ $31\frac{1}{2}$	2567 278 277 277 277 2767 2767		$\frac{12\frac{3}{8}}{28}$ $\{^{(11)}$ $12\frac{3}{8}$ $^{(12)}$	123 123	284
I stare			e per Annu	d Corn.			ģ.	521 531 522 54	52 52 53 88 88	5544 554 554 557	で で で で む む ひ む 記集 5 2 2 4 2 3 3 4 2 3 3 3 4 2 3 3 3 3 3 3 3		$\frac{53\frac{1}{2}}{53\frac{1}{4}}$ (12)	523 528	543
I mary I mary			Averag 20 Y	Dresse	:	Quantity	Bushels. 20 25 2 22 2 27 2 27 2 27 2 27 2 2 2 2 2 2	32½ 47 35 46½	37 494 373 49 3	37 474 435 50	4 6 6 6 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6	$\frac{373}{41\frac{1}{2}}\Big\}^{(11)}$	$\frac{22\frac{2}{4}}{44\frac{1}{8}}$ (11)	22 22	484
8 8 8 8 0000 000 4444 4444 4444 40000 NX 041 122 1		= (about) 0.40 Hectare or 1.59	1 bushel = (about) 0.36 Hectolitre or 0.66 11b. (pand avoir.) = (about) 0.45 Klogrammes or 0.91 owt. (hundredweight) = (about) 5.10 Kilogrammes or 1.02	bushel per acre = (about) 0.9 Hectolitre per Hectare or 0.42 1.12 Kilogramme per Hectare or 0.57	= (about) 125.5 kilogrammes per Hectare or 0.64		O. Urmanured continuously O. 34 owts. Superphosphate of Lime (0) O. 200 lbs. (20 lbs. (20 lbs.) Sulphate Potass, 100 lbs. (3) Sulphate Magnesia O. 200 lbs. (20 lbs.) Sulphate Potass, 100 lbs. (3) Sulphate Soda, 100 lbs. Sulphate Magnesia, 33 cwts. Superphosphate O. 200 lbs. (20 lbs.) Sulphate Wagnesia, 33 cwts. Superphosphate	Soda, 100 lbs. Sulph. Magnesia Soda, 100 lbs. Sulph. Magnesia, 3½ cwts.	Nitrate Soda and 3½ cvts. Superphosphate	AAS. 275 lbs. Nitrate Soda, and 400 lbs. Silicate of Soda (**)	1000 lbs. Rape-cake, and 34 cvts. Superphosphate 1000 lbs. Rape-cake, 200 lbs. Sulph. Potass, 100 lbs. Sulph. Soda, 100 lbs. Sulph. Magnesia 1000 lbs. Rape-cake, 200 lbs. Sulph. Potass, 100 lbs. Sulph. Soda, 100 lbs. Sulph. Magnesia, 3½ cvts. Superphosphate	N. 275 lbs. Witrate of Soda		Unmanured continuously Ashes (burnt soil, turf, and weeds)	::

excepting the addition of the Silicates, have been, and are, in other respects, manuscul in the same way as the "AA" plots; and for the sake of comparison with the latter, the average produce is given for the whole period of 20 years, 1852-1871.

(1) 2000 lbs. Rape-cake per annum for the first six years, and 1000 lbs. only, each year since.

(2) 300 lbs. Sulpintue of Potass, and 32 cwts. Superphosphate of Lime, without Nitrate of Soda, the first year (1852); Nitrate alone each year since.

(2) 550 lbs. Nitrate of Soda for 1853-4-5-6, and 7; and 275 lbs only, each year since.

(3) Armonia-salks also the first year, but not since.

(4) Average of 19 years only.

(1) The "Superphosphate of Lime" is, in all cases, made from 200 lbs. Bone-ash, 150 lbs. Sulphuric acid sp. gr. 1-7 (and water).

(2) 300 lbs. per annum for the first six years, 1852-7.

(3) 200 lbs. per annum for the first six years, 1852-7.

(4) The "Ammonia-sults"—in all cases equal parts Sulphate and Muritte of Ammonia of Commerce.

(5) First 6 years, 1852-7, instead of Nitrate of Soda, 400 lbs. Ammonia-sults per annum; 1868 and since 275 lbs. Nitrate of Soda per annum; 1875-86; 700 lbs. Ammonia-sults per annum; 1868 and since 275 lbs. Nitrate of Soda per annum; 175 lbs. Nitrate of Soda is reckoned to contain the same amount of Nitrogen as 200 lbs. "Ammonia-sults." Silicate of Soda and 200 lbs. Silicate of Lime were applied per zu; but in 1868, and since, 400 lbs. Silicate of Soda and 200 lbs. Silicate of Lime were applied per zu; but in 1868, and since, 400 lbs. Silicate of Soda and no Silicate of Lime. These plots ("AAS") comprise, respectively, one half of the original "AA" plots, and,