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## Memoranda of the Field Experiments at Rothamsted, May 1873



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## **Experiments on Barley; Hoos Field**

## **Rothamsted Research**

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## HOOS FIELD

manured carted off; 1848, Barley; 1849, Clover; 1850, Wheat; 1851, Barley MANURE. OF KINDS DIFFERENT WITH AND WITHOUT MANURE, THE SAME LAND, Dung and Superphosphate of Lime, the Roots ON YEAR AFTER YEAR BARLEY OF Previous Cropping-1847, Swedish Turnips, with GROWTH THE ON EXPERIMENTS with

40 excepting the addition of the Silicates, have been, and are, in other respects, manured 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.

(2) 2000 lbs. Rape-cake per annum for the first six years, and 1000 lbs, only, each year since.

(3) 300 lbs. Sulphate of Potass, and 3½ owts. Superphosphate of Lime, without Nitrate of Soda, the first year (1852); Nitrate alone seath year since.

(9) 550 lbs. Nitrate of Soda for 1853-4-5-6, and 7; and 275 lbs. only, each year since. AAS. AAS. 4 AAS. PLOTS. वंबंबंबं 0000 ರರರರ zz O.A No or 101004 H 01 00 44 Han H 67 1 after Total Straw. Twenty-first Season, 1872. year 7524 6 CW 154 227 244 244 171 197 17 203 200 200 200 277 277 6 67 67 22g ₽ 683 7 23§ applied Weight per Bushel. Dressed Corn. 5231 5245 524 524 524 524 53 52 533 532 531 531 533 544 53g 53 peen Quantity PER 264 398 308 367 11 123 33 35 35 36 36 3314 S 33 30g 90g 383 bas PRODUCE £ (72) Total Straw. Annum, over 1852-1871. Manure 123 28 123 123 217 29 257 313 222 284 222 308 328 328 328 328 123 124 2562 272 293 293 Weight per Bushel. (12) Dressed Corn. same 532 532 534 534 Average per 20 Years, 1 525 553 522 522 54 54 552 552 554 555 557 557 557 543 523 Quantity. the £ 0 1 22章 Bus 20 25 22 27 35 47 35 464 373 413 78 78 78 78 78 78 78 78 37 474 43§ 50 483 foot-notes, 222 Superphosphate Superphosphate :: and :: :::: :: :: ::: Superphosphate agnesia, the :::: 2 Centner. 12 Pr. Scheffel per Pr. Morgen. 57 Zolly. Pfd. per Pr. Morgen. 64 Centner per Pr. Morgen. Ŗ. Sulph. M : : : : Su . Superphosphate contrary 34 cwts. cwts. under experiment, about 44 cwts. Prussian Morgen. 100 lbs. ::: : : : : : : : : Magnesia, Soda, and Soda, 100 I the Magnesia, :01 40 cwts. Sulphuric stated Sulph. monia-salts .. Superphosphate Sulph. Sulph. :: ::: : : : 33. Sulph. or 1.59 or 0.66 or 0.91 or 1.02 or 0.42 or 0.57 -salts Soda, 100 lbs. Sulphate Magnesia Soda, 100 lbs. Sulphate Magnesia, : : : unless 100 lbs. Soda (\*\*) Soda, and 34 owts Superphosphate (\*\*) Soda, 200 lbs. ''s Sulph. Potass, 100 lbs. (\*\*) Soda, 200 lbs. (\*\*) Sulph. Potass, 100 lbs. (\*\*) lbs. 100 lbs. annum 100 (Area 150 and, n. Soda, :: : : Soda, cwts. Bone-ash, Manures, per acre, per Soda, : : s, 3½ cwts. Superphosphate (10) ... s, 3½ cwts. Superphosphate, and 200 lbs. 100 lbs. Sulphate of Magnesia, and 3½ or since; Sulph. since Sulph. Sulph. lbs. 20 years, 1852-1871; unmanured cwts. Superphosphate ... (3) Sulph. Potass, 100 lbs. (3) L. (2) Sulph. Potass, 100 lbs. (3) year : :8 8 200 ଚି ଚି cwts. Superphosphate ... (2) Sulph. Potass, 100 lbs. (2) Sulph. Potass, 100 lbs. Superphosphate ... sulph. Potass, 100 lbs. (alph. Potass, 100 lbs. (3 : : 51.0 0.9 1.12 from every of Lime (1) Sulphate is 100 lbs. (3) Sulphate is se, 100 lbs. (3) Sulphate made Barley : : cases, acid sp. gr. 1.7 (and water).

(2) 300 lbs. per annum for the first six years, 1855 (2) 200 lbs. per annum for the first six years, 1852 (2) 200 lbs. per annum for the first six years, 1852 (3) 200 lbs. per annum for the first six years, 1852 (3) The "Ammonia-salts"—in all cases equal parts in Thist 6 years, 1852—7, instead of Nitrate of Sod 1858—67, 200 lbs. Ammonia-salts per annum; 1868, and Nitrate of Soda is reckoned to contain the same amount of "9 The application of Silicates did not commence Soda and 200 lbs. Silicate of Lime were applied per a and no Silicate of Lime were applied per a supplied ber a supplied per a supplied ber a supplied per a supplied ber as supplied ber a supplied per a supp cwts. Super s. (2) Sulph. H Silicate Sil 11 11 11 11 11 11 11 1852. every Superphosphate of Lime (2) Sulphate Potass, 100 (2) Sulphate Potass, 100 3½ lbs. lbs. :: and 3½ c 200 lbs. 200 lbs. 400 lbs. 400 lbs. 400 lbs. 400 lbs. Sulphate of Potass, Sulphate of Potass, Sulphate of Soda, 10 and 3½ c. 200 lbs. 200 lbs. 200 lbs. 200 200 200 Ħ. Superphosphate Unmanured continuously Ashes (burnt soil and turf) Manure 14 tons, Manure 14 tons, Nitrate of Soda (9) Nitrate of Soda Crop Ammonia-salts, 2 Ammonia-salts, 2 5 lbs. Nitrate Soda, 4 3 cwts. Superphosph Soda, Soda, Soda, Rape-cake, a Rape-cake, a Rape-cake, Rape-cake, th Ammonia-salts. Experimental Barley Nitrate S Nitrate S Nitrate S Nitrate S Unmanured of St. Control of St. Cont Farmyard Farmyard g g lbs. lbs. lbs. 200 lbs. (200 lbs. (100 lbs. lbs. lbs. lbs. lbs. lbs. lbs. lbs. same Plot. 1000 33 275 275 275 275 275 ] 2000 2000 2000 2000 275 275 275 275 AAS. AAS. AAS. 444 44.44 PLOTS. QA.H 0000 4444 ರರರರ ZZ First the  $6\binom{1}{2}$ **□3135** # 12134 421004 [2] 10 10

years only.

equal parts Sulphate and Muriate of Ammonia of Commerce.

s (" AAS")