

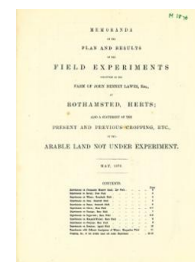
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Yields of the Field Experiments 1876

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Experiments on Barley; Hoos Field

Rothamsted Research

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HOOS FIELD.

EXPERIMENTS ON THE GROWTH OF BARLEY YEAR AFTER YEAR ON THE SAME LAND, WITHOUT MANURE, AND WITH DIFFERENT KINDS OF MANURE. Previous Cropping—1847, Swedish Turnips, with Dung and Superphosphate of Lime, the Roots carted off; 1848, Barley; 1849, Clover; 1850, Wheat; 1851, Barley manured with Ammonia salts. First Experimental Barley Crop in 1852. Barley every year since; and, unless stated to the contrary in the Table, or in the foot-notes, the same Manure has been applied year after year to the same Plot.

(Area under experiment, about 4½ acres.)

Plots.	PRODUCE PER ACRE.										Plots.	
	Average per Annum.					Twenty-Fourth Season, 1876.						
	Quantity.		Weight per Bushel.		Total Staw.	Quantity.		Weight Bushel.		Total Staw.		
1 acre	0-40 Hectare	or 1-59 Prussian Morgen.	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	1 O.
1 bushel	0-36 Hectolitre	or 0-66 Prussian Scheffel.	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	2 O.
1 lb. (pound avoird.)	0-45 Kilogramme	or 0-91 Zollverein Pfund.	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	3 O.
1 cwt. (hundredweight)	51-0 Kilogrammes	or 0-92 Centenar per Pr. Morgen.	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	4 O.
1 bushel per acre	0-9 Hectolitre per Hectare	or 0-57 Zollic. Pfd. per Pr. Morgen.	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	1 A.
1 lb. per acre	1-12 Kilogrammes per Hectare	or 0-64 Centenar per Pr. Morgen.	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	2 A.
1 cwt. per acre	125-5 Kilogrammes per Hectare	or 0-64 Centenar per Pr. Morgen.	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	3 A.
			Manures, per acre, per annum.									4 A.
Unmanured continuously	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	1 A.A.
3½ cwt. Superphosphate of Lime (1)	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	2 A.A.
200 lbs. Superphosphate of Lime (1)	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	3 A.A.
200 lbs. Superphosphate of Lime (1)	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	4 A.A.
200 lbs. Ammonia-salts (2)	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	1 A.
200 lbs. Ammonia-salts (2)	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	2 A.
200 lbs. Ammonia-salts (2)	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	3 A.
200 lbs. Ammonia-salts (2)	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	4 A.
275 lbs. Nitrate Soda (3)	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	1 A.A.
275 lbs. Nitrate Soda (3)	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	2 A.A.
275 lbs. Nitrate Soda (3)	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	3 A.A.
275 lbs. Nitrate Soda (3)	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	4 A.A.
275 lbs. Nitrate Soda (3)	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	1 A.A.S.
275 lbs. Nitrate Soda (3)	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	2 A.A.S.
275 lbs. Nitrate Soda (3)	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	3 A.A.S.
275 lbs. Nitrate Soda (3)	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	4 A.A.S.
1000 lbs. Rape-cake (4)	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	1 C.
1000 lbs. Rape-cake (4)	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	2 C.
1000 lbs. Rape-cake (4)	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	3 C.
1000 lbs. Rape-cake (4)	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	4 C.
275 lbs. Nitrate of Soda (5)	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	1 N.
275 lbs. Nitrate of Soda (5)	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	2 N.
200 lbs. Superphosphate (6)	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	5 O.
200 lbs. Superphosphate (6)	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	5 A.
100 lbs. Superphosphate (6)	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	M.
Unmanured continuously	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	6(1)
Ashes (burnt soil and turf)	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	7(1)
Farmyard Manure 14 tons, 20 years, 1852-1871; unmanured since	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	1(2)
Farmyard Manure 14 tons, every year; av. produce, 20 years, 1852-71, 48½ bush.; 4 years, 1872-5, 50½ bush.	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	2(2)

(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), for the first six years, 1852-7. (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 "Rape-cake" is—in all cases equal parts Sulphate and Muriate of Ammonia of Commerce. (5) The "Nitrate of Soda" is—in all cases equal parts Sulphate and Muriate of Ammonia of Commerce. (6) For 6 years, 1852-7, instead of Nitrate of Soda, 400 lbs. Ammonia-salts per annum; next 10 years, 1858-67, 200 lbs. Ammonia-salts per annum; 1868, and since, 275 lbs. Nitrate of Soda per annum. 275 lbs. Nitrate of Soda is reckoned to contain the same amount of Nitrogen as 200 lbs. "Ammonia-salts." (7) The application of Silicates did not commence until 1864; in 1864-5-6 and 7, 200 lbs. Silicate of Soda and 200 lbs. Silicate of Lime were applied per acre, but in 1868, and since, 400 lbs. Silicate of Soda, and no Silicate of Lime. These plots ("A.A.S.") comprise, respectively, one half of the original "A.A." plots, and, excepting the addition of the Silicates, have been, and are, in other respects, manured in the same way as the "A.A." plots. (8) 2000 lbs. Rape-cake per annum for the first six years, and 1000 lbs. only, each year since. (9) 300 lbs. Sulphate of Potash, and 3½ cwt. Superphosphate of Lime, without Nitrate of Soda, the first year (1852); Nitrate alone each year since. (10) 550 lbs. Nitrate of Soda for 1853-4-5-6, and 7; and 275 lbs. only, each year since. (11) Ammonia-salts also the first year, but not since. (12) Averages of 11 years, 22 years, and 18 years. (13) Averages of 10 years, 12 years, and 18 years. (14) Averages of 20 years (with 4½, 4 years (unmanured), and 2½ years.

excepting the addition of the Silicates, have been, and are, in other respects, manured in the same way as the "A.A." plots.