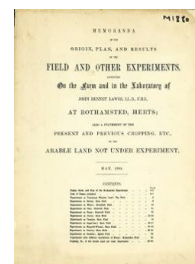


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# Memoranda of the Field Experiments at Rothamsted: May 1880



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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; 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 4 1/2 acres.)

Plots.	PRODUCES PER ACRE.												Plots.								
	Average per Annum.																				
	Dressed Corn.				Total Straw.				Dressed Corn.					Total Straw.							
	Quantity.		Weight per Bushel.		Quantity.		Weight per Bushel.		Quantity.		Weight per Bushel.										
	13 Years, 1852-64.	13 Years, 1862-74.	13 Years, 1866-77.	26 Years, 1852-77.	13 Years, 1852-64.	13 Years, 1862-74.	13 Years, 1866-77.	26 Years, 1852-77.	13 Years, 1852-64.	13 Years, 1862-74.	13 Years, 1866-77.	26 Years, 1852-77.	Twenty-eighth Season, 1878.								
	Bushels.	Bushels.	Bushels.	Bushels.	Lbs.	Lbs.	Lbs.	Bushels.	Lbs.	Lbs.	Lbs.	Bushels.	Lbs.								
	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.								
	1 O.	2 O.	3 O.	4 O.	1 A.	2 A.	3 A.	4 A.	1 AA.	2 AA.	3 AA.	4 AA.	1 C.	2 C.	3 C.	4 C.	1 N.	2 N.	5 O.	5 A.	M.
	1 O.	2 O.	3 O.	4 O.	1 A.	2 A.	3 A.	4 A.	1 AA.	2 AA.	3 AA.	4 AA.	1 C.	2 C.	3 C.	4 C.	1 N.	2 N.	5 O.	5 A.	M.

(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-salts" are in all cases equal parts Sulphate and Nitrate of Ammonia of Commerce.  
 (5) First 6 years, 1852-7, instead of Nitrate of Soda, 450 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."  
 (6) The application of Sulphate of Soda did not commence until 1864; in 1864-5-6 and 7, 200 lbs. Silicate of Soda and 200 lbs. Sulphate of Soda were applied per acre, 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, excepting the addition of the Silicates, have been, and are, in other respects, manured in the same way as the "AA" plots.  
 (7) 300 lbs. Rape-cake per annum for the first six years, and 1000 lbs. only, each year since.  
 (8) 200 lbs. Sulphate of Potash, and 3 1/2 cwts. Superphosphate of Lime, without Nitrate of Soda, the first year (1852); Nitrate alone each year since.  
 (9) 550 lbs. Nitrate of Soda for 1853-4-5-6, and 7; and 275 lbs. only, each year since.  
 (10) Ammonia-salts also the first year, but not since.  
 (11) Averages of 12 years, 13 years, and 25 years.  
 (12) Averages of 7 years, 13 years, and 20 years.  
 (13) Produce not weighed, owing to the foulness from the wet season.  
 (14) By mistake 400 lbs. in 1880.