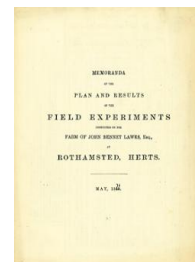


Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Memoranda of the Plan and Results of the Field Experiments, May 1870



[Full Table of Content](#)

Experiments on Oats; Geescroft Field

Rothamsted Research

Rothamsted Research (1871) *Experiments on Oats; Geescroft Field* ; Memoranda Of The Plan And Results Of The Field Experiments, May 1870, pp 5 - 5 - DOI:

<https://doi.org/10.23637/ERADOC-1-234>

EXPERIMENTS ON THE GROWTH OF OATS YEAR AFTER YEAR ON THE SAME LAND; WITHOUT MANURE, AND WITH DIFFERENT KINDS OF MANURE.

GEESCROFT FIELD.

Previous Cropping—1847 and 1848, Clover, Experimental Manures; 1849—1859, Beans, Experimental Manures; 1860, Fallow; 1861 and 1862, Wheat, Unmanured; 1863, Fallow; 1864, Beans, Dunged; 1865, Wheat, Unmanured; 1866, Beans, Unmanured; 1867 and 1868, Wheat, Unmanured; 1869, First Experimental Oat Crop in 1869.

(Area under Experiment, $\frac{2}{3}$ acre).

PLOTS.		PRODUCE PER ACRE.												
		1ST SEASON, 1869.					2ND SEASON, 1870.							
		Dressed Corn.		Total Straw.		Dressed Corn.		Total Straw.		Dressed Corn.		Total Straw.		
		Quantity.	Weight per Bushel.	Quantity.	Weight per Bushel.	Quantity.	Weight per Bushel.	Quantity.	Weight per Bushel.	Quantity.	Weight per Bushel.	Quantity.	Weight per Bushel.	
1	Unmanured	Bushels, 36 $\frac{3}{4}$	lbs. 36 $\frac{3}{4}$	cwts. 19 $\frac{1}{2}$	lbs. 36 $\frac{3}{4}$	Bushels, 16 $\frac{3}{4}$	lbs. 35	cwts. 9 $\frac{1}{2}$	Bushels, 16 $\frac{3}{4}$	lbs. 35 $\frac{1}{2}$	cwts. 9 $\frac{1}{2}$	Bushels, 16 $\frac{3}{4}$	lbs. 35 $\frac{1}{2}$	cwts. 9 $\frac{1}{2}$
2	Mixed Alkalies (1) ; and Superphosphate of Lime (2)	45	38 $\frac{1}{2}$	24 $\frac{1}{2}$	38 $\frac{1}{2}$	19 $\frac{1}{2}$	35 $\frac{1}{2}$	9 $\frac{1}{2}$	30	34 $\frac{1}{2}$	17 $\frac{1}{2}$	36	35 $\frac{1}{2}$	23
3	400 lbs. Ammonia-salts (3)	56 $\frac{1}{2}$	37 $\frac{1}{2}$	36 $\frac{1}{2}$	37 $\frac{1}{2}$	30	34 $\frac{1}{2}$	17 $\frac{1}{2}$	50 $\frac{1}{2}$	36	28 $\frac{1}{2}$	50	35 $\frac{1}{2}$	23
4	400 lbs. Ammonia-salts ; "Mixed Alkalies" ; and "Superphosphate of Lime"	75 $\frac{1}{2}$	39 $\frac{1}{2}$	54	39 $\frac{1}{2}$	50 $\frac{1}{2}$	36	28 $\frac{1}{2}$	62 $\frac{1}{2}$	35 $\frac{1}{2}$	23	69 $\frac{1}{2}$	35 $\frac{1}{2}$	28 $\frac{1}{2}$
5	550 lbs. Nitrate of Soda (4)	62 $\frac{1}{2}$	35 $\frac{1}{2}$	42 $\frac{1}{2}$	35 $\frac{1}{2}$	36 $\frac{1}{2}$	35 $\frac{1}{2}$	23	69 $\frac{1}{2}$	35 $\frac{1}{2}$	28 $\frac{1}{2}$	69 $\frac{1}{2}$	35 $\frac{1}{2}$	28 $\frac{1}{2}$
6	550 lbs. Nitrate of Soda ; "Mixed Alkalies" ; and "Superphosphate of Lime"	69 $\frac{1}{2}$	39 $\frac{1}{2}$	49 $\frac{1}{2}$	39 $\frac{1}{2}$	50 $\frac{1}{2}$	36	28 $\frac{1}{2}$	69 $\frac{1}{2}$	35 $\frac{1}{2}$	23	69 $\frac{1}{2}$	35 $\frac{1}{2}$	28 $\frac{1}{2}$

(1) 200 lbs. Sulphate of Potash, 100 lbs. Sulphate of Soda, and 100 lbs. Sulphate of Magnesia.

(2) 200 lbs. Bone-ash, 150 lbs. Sulphuric Acid (sp. gr. 1.7).

(3) Equal parts Sulphate and Muriate of Ammonia of Commerce.

(4) 550 lbs. Nitrate of Soda is reckoned to contain the same amount of Nitrogen as 400 lbs. "Ammonia-salts."