

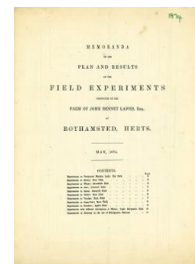
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ROTHAMSTED
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Memoranda of the Field Experiments at Rothamsted May 1874

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Experiments on Oats; Geescroft Field

Rothamsted Research

Rothamsted Research (1875) *Experiments on Oats; Geescroft Field* ; Memoranda Of The Field Experiments At Rothamsted May 1874, pp 5 - 5 - DOI: <https://doi.org/10.23637/ERADOC-1-238>

GEESCROFT FIELD.

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

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. First Experimental Oat Crop in 1869.

(Area under Experiment, $\frac{1}{2}$ acre.)

PLOTS.	MANURES, PER ACRE, PER ANNUM.	PRODUCE PER ACRE.											
		1ST SEASON, 1869.		2ND SEASON, 1870.		3RD SEASON, 1871.		4TH SEASON, 1872.		5TH SEASON, 1873.		AVERAGE PER ANNUM 5 YEARS, 1869-1873.	
		Dressed Corn.	Total Straw.	Dressed Corn.	Total Straw.	Dressed Corn.	Total Straw.	Dressed Corn.	Total Straw.	Dressed Corn.	Total Straw.	Dressed Corn.	Total Straw.
1	Unmanured	Bushels, 36 $\frac{1}{2}$	cwts. 19 $\frac{1}{2}$	Bushels, 16 $\frac{1}{2}$	cwts. 9 $\frac{1}{2}$	Bushels, 20 $\frac{1}{2}$	cwts. 11 $\frac{1}{2}$	Bushels, 15	cwts. 7 $\frac{1}{2}$	Bushels, 10 $\frac{1}{2}$	cwts. 5 $\frac{1}{2}$	Bushels, 19 $\frac{1}{2}$	cwts. 10 $\frac{1}{2}$
2	{ 200 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3 $\frac{1}{2}$ cwts. Superphosphate of Lime ⁽¹⁾ }	45	24 $\frac{1}{2}$	19 $\frac{1}{2}$	9 $\frac{1}{2}$	22	13 $\frac{1}{2}$	19 $\frac{1}{2}$	10 $\frac{1}{2}$	17	8 $\frac{1}{2}$	24 $\frac{1}{2}$	13 $\frac{1}{2}$
3	400 lbs. Ammonia-salts ⁽²⁾ }	56 $\frac{1}{2}$	36 $\frac{1}{2}$	30	17 $\frac{1}{2}$	57 $\frac{1}{2}$	40 $\frac{1}{2}$	55 $\frac{1}{2}$	30 $\frac{1}{2}$	36 $\frac{1}{2}$	16 $\frac{1}{2}$	47	28 $\frac{1}{2}$
4	{ 400 lbs. Ammonia-salts, 200 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3 $\frac{1}{2}$ cwts. Superphosphate .. }	75 $\frac{1}{2}$	54	50 $\frac{1}{2}$	28 $\frac{1}{2}$	58 $\frac{1}{2}$	50	62 $\frac{1}{2}$	45 $\frac{1}{2}$	48 $\frac{1}{2}$	27 $\frac{1}{2}$	59	41 $\frac{1}{2}$
5	550 lbs. Nitrate of Soda ⁽³⁾ }	62 $\frac{1}{2}$	42 $\frac{1}{2}$	38 $\frac{1}{2}$	28	55	34 $\frac{1}{2}$	42 $\frac{1}{2}$	20 $\frac{1}{2}$	39 $\frac{1}{2}$	16 $\frac{1}{2}$	47 $\frac{1}{2}$	27 $\frac{1}{2}$
6	{ 550 lbs. Nitrate of Soda, 200 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3 $\frac{1}{2}$ cwts. Superphosphate .. }	69 $\frac{1}{2}$	49 $\frac{1}{2}$	50	28 $\frac{1}{2}$	60 $\frac{1}{2}$	48 $\frac{1}{2}$	44 $\frac{1}{2}$	24	63 $\frac{1}{2}$	24	57 $\frac{1}{2}$	35

6TH SEASON, 1874.

Only 200 lbs. instead of 400 lbs. Ammonia-salts to Plots 3 and 4, and only 275 lbs. instead of 550 lbs. Nitrate of Soda to Plots 5 and 6; in all other respects the manures are the same as in previous years, and as stated above.

(¹) "Superphosphate of Lime"—in all cases, made from 200 lbs. Bone-ash, 150 lbs. Sulphuric Acid sp. gr. 1.7 (and water).
 (²) "Ammonia-salts"—in each case, equal parts Sulphate and Murate of Ammonia of Commerce.
 (³) 550 lbs. Nitrate of Soda is reckoned to contain the same amount of Nitrogen as 400 lbs. "Ammonia-salts."