

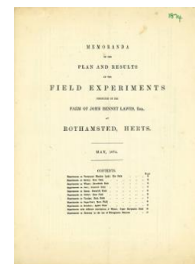
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ROTHAMSTED
RESEARCH

Memoranda of the Field Experiments at Rothamsted May 1874

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Experiments on Oats; Geescroft Field

Rothamsted Research

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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.	
Quantity, Bushel.	Weight per Bushel, lbs.	Quantity, Bushel.	Weight per Bushel, lbs.	Quantity, Bushel.	Weight per Bushel, lbs.	Quantity, Bushel.	Weight per Bushel, lbs.	Quantity, Bushel.	Weight per Bushel, lbs.	Quantity, Bushel.	Weight per Bushel, lbs.	Quantity, Bushel.	Weight per Bushel, lbs.	
1	Unmanured	36 $\frac{1}{2}$	19 $\frac{1}{2}$	16 $\frac{1}{2}$	8 $\frac{1}{2}$	20 $\frac{1}{2}$	33 $\frac{1}{2}$	11 $\frac{1}{2}$	15	10 $\frac{1}{2}$	27 $\frac{1}{2}$	19 $\frac{1}{2}$	33 $\frac{1}{2}$	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	35 $\frac{1}{2}$	13 $\frac{1}{2}$	19 $\frac{1}{2}$	17	28 $\frac{1}{2}$	24 $\frac{1}{2}$	35	13 $\frac{1}{2}$
3	400 lbs. Ammonia-salts ⁽²⁾ }	56 $\frac{1}{2}$	36 $\frac{1}{2}$	30	17 $\frac{1}{2}$	57 $\frac{1}{2}$	36 $\frac{1}{2}$	40 $\frac{1}{2}$	55 $\frac{1}{2}$	36 $\frac{1}{2}$	32 $\frac{1}{2}$	47	85 $\frac{1}{2}$	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 $\frac{1}{2}$	35 $\frac{1}{2}$	50	62 $\frac{1}{2}$	48 $\frac{1}{2}$	34 $\frac{1}{2}$	59	87	41 $\frac{1}{2}$
5	550 lbs. Nitrate of Soda ⁽³⁾ }	62 $\frac{1}{2}$	42 $\frac{1}{2}$	38 $\frac{1}{2}$	23	55	36 $\frac{1}{2}$	34 $\frac{1}{2}$	42 $\frac{1}{2}$	39 $\frac{1}{2}$	30 $\frac{1}{2}$	47 $\frac{1}{2}$	85 $\frac{1}{2}$	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 $\frac{1}{2}$	33 $\frac{1}{2}$	48 $\frac{1}{2}$	44 $\frac{1}{2}$	37 $\frac{1}{2}$	38 $\frac{1}{2}$	57 $\frac{1}{2}$	85 $\frac{1}{2}$	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."