

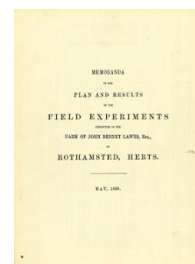
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# Memoranda of the Plan and Results of the Field Experiments, May 1869

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## Experiments on Oats; Geescroft Field

### Rothamsted Research

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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.  
 First Experimental Oat Crop in 1869.

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

PLOTS.	I acre .. .. . 1 bushel .. .. . 1 lb. (pound avoird.) .. .. . 1 cwt. (hundredweight) = .. .. . 1 bushel per acre .. .. . 1 lb. per acre .. .. . 1 cwt. per acre .. .. .	= (about) 0.40 Hectare .. .. . = (about) 0.36 Hectolitre .. .. . = (about) 0.45 Kilogramme .. .. . = (about) 51.0 Kilogrammes .. .. . = (about) 0.9 Hectolitre per Hectare .. .. . = (about) 1.12 Kilogramme per Hectare .. .. . = (about) 125.5 Kilogrammes per Hectare .. .. .	or 1.59 Prussian Morgen. or 0.66 Prussian Scheffel. or 0.91 Zollverein Pfund. or 1.02 Centner. or 0.42 P. Scheffel per Pr. Morgen. or 0.57 Zöllv. Pfd. per Pr. Morgen. or 0.64 Centner per Pr. Morgen.	PRODUCE PER ACRE.						
				<i>1st Harvest, 1869.</i>						
				Dressed Corn. Quantity.	Weight per Bushel.	Total Straw. cwt.	Dressed Corn. Quantity.	Weight per Bushel.	Total Straw. cwt.	
1	Unmanured .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .
2	Mixed Alkalies <sup>(1)</sup> .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .
3	400 lbs. Ammonia-salts <sup>(2)</sup> .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .
4	400 lbs. Ammonia-salts; "Mixed Alkalies"; and "Superphosphate of Lime" .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .
5	550 lbs. Nitrate of Soda <sup>(3)</sup> .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .
6	550 lbs. Nitrate of Soda; "Mixed Alkalies"; and "Superphosphate of Lime" .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .

(1) 200 lbs. Sulphate of Potass, 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 Murate of Ammonia of Commerce.

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