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

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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, $\frac{8}{4}$ acre).

		PRODUCE PER ACRE.					
		1ST SEASON, 1869.			2ND SEASON, 1870.		
		Dressed Corn.			Dressed Corn.		
PLOTS.	Manures per Acre, First Season—1869.	Quantity.	Weight per Bushel.	Total Straw.	Quantity.	Weight per Bushel.	Total Straw.
		Bushels.	lbs.	cwts.	Bushels.	lbs.	cwts.
1	Unmanured	36⅜	36¾	19¼	16⅜	35	9⅓
2	Mixed Alkalies [1] ; and Superphosphate of Lime [2]	45	38½	24½	19⅓	35⅓	9⅗
3	400 lbs. Ammonia-salts [3]	56⅛	37½	36⅞	30	34⅞	17¼
4	400 lbs. Ammonia-salts; "Mixed Alkalies"; and "Superphosphate of Lime"	75¼	39¼	54	50⅜	36	28⅜
5	550 lbs. Nitrate of Soda [4]	62¼	38½	42¾	36½	35¼	23
6	550 lbs. Nitrate of Soda; "Mixed Alkalies"; and "Superphosphate of Lime"	69⅜	38½	49⅞	50	35¾	28¾

1 acre	= (about) 0·40 Hectare .. .. or 1·59 Prussian Morgen.
1 bushel	= (about) 0·36 Hectolitre .. .. .. or 0·66 Prussian Scheffel.
1 lb. (pound avoir.)	= (about) 0·45 Kilogramme .. .. .. or 0·91 Zollverein Pfund.
1 cwt. (hundredweight)	= (about) 51·0 Kilogrammes .. .. .. or 1·02 Centner.
1 bushel per acre ..	= (about) 0·9 Hectolitre per Hectare .. or 0·42 Pr. Scheffel per Pr. Morgen.
1 lb. per acre	= (about) 1·12 Kilogramme per Hectare or 0·57 Zollv. Pfd. per Pr. Morgen.
1 cwt. per acre ..	= (about) 125·5 Kilogrammes per Hectare or 0·64 Centner per Pr. Morgen.

(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 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."