

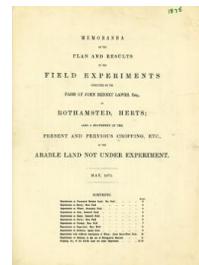
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Yields of the Field Experiments 1875

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Experiments on Oats; Geescroft Field

Rothamsted Research

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GEEESCROFT FIELD.

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

Previous Chopping—1847 and 1848, Clover, Experimental Manures; 1849—1859, Peas, 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. $\frac{3}{4}$ acre.)

PLOTS.	MANURES, PER ACRE, PER ANNUM.	PRODUCE PER ACRE.									
		1ST SEASON, 1869.			2ND SEASON, 1870.			3RD SEASON, 1871.			4TH SEASON, 1872.
		Dressed Corn.	Dressed Corn.	Total Straw.	Dressed Corn.	Dressed Corn.	Dressed Corn.	Dressed Corn.	Total Straw.	Dressed Corn.	5TH SEASON, 1873.
1	Unmanured	... ...	... ...	... ...	Bushels, 36½	Bushels, 10½	cwt., 19½	Bushels, 20½	lbs. 33	lbs. 33½	cwt., 11½
2	200 lbs. Sulphate Potash, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3½ cwt. Superphosphate of Lime (1)	... ...	45	38½	Bushels, 19½	Bushels, 35½	cwt., 9½	Bushels, 22	lbs. 35½	lbs. 37½	cwt., 10½
3	400 lbs. Ammonia-salts (2) ... ...	... ...	56½	37½	Bushels, 30	Bushels, 34½	cwt., 17½	Bushels, 57½	lbs. 36½	lbs. 36½	cwt., 13½
4	400 lbs. Ammonia-salts, 200 lbs. Sulphate Potash, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3½ cwt. Superphosphate (3)	... ...	75½	39½	Bushels, 54	Bushels, 36	cwt., 28½	Bushels, 58½	lbs. 35½	lbs. 39½	cwt., 45½
5	550 lbs. Nitrate of Soda (3) ... ...	... ...	62½	38½	Bushels, 42½	Bushels, 35½	cwt., 23	Bushels, 55	lbs. 36½	lbs. 36½	cwt., 40½
6	550 lbs. Nitrate of Soda, 200 lbs. Sulphate Potash, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3½ cwt. Superphosphate (3)	... ...	69½	38½	Bushels, 49½	Bushels, 50	cwt., 28½	Bushels, 60½	lbs. 44½	lbs. 44½	cwt., 50½
									lbs. 27½	lbs. 19½	lbs. 33½
									cwt., 5½	cwt., 10½	cwt., 10½
									Quantity, bushels.	Quantity, bushels.	Quantity, bushels.
									Weight per bushel.	Weight per bushel.	Weight per bushel.
									Total Straw.	Total Straw.	Total Straw.
									Dressed Corn.	Dressed Corn.	Dressed Corn.
									5 Years, 1865-1873.	Average per annum.	

¹⁾ "Superphosphate of Lime"—in all cases made from 200 lbs Bone-ash, 150 lbs Sulphuric Acid sp. gr. 1.7 (and water).

Ammonia-sulfate—in each case equal parts Sulphur and Muriate of Ammonia of Commerce made from 200 lbs. one-ash, 150 lbs. sulphuric acid.

Ammonium-salts — in each case, equal parts Sulphite and Munate of Ammonia, or 400 lbs. " Ammonio-calc's
Nitrate of Soda, is required to convert the excess of Nitrate & Nitrites into Ammonium-salts.

550 lbs Nitrate of Soda is required to contain the same amount of Nitrogen as 100 lbs. Ammonium-nitrate. At those plots, where large quantities of Nitrate of Soda had been applied year after year, the land, though more irregular than others, was in a very favorable condition for sowing, and the plant was very irregular.