

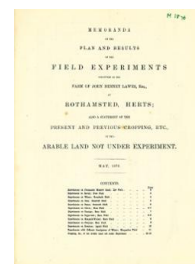
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Yields of the Field Experiments 1876

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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.												AVERAGE PER ANNUM 5 YEARS, 1869-1873.						
		1ST SEASON, 1869.			2ND SEASON, 1870.			3RD SEASON, 1871.			4TH SEASON, 1872.					5TH SEASON, 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.	Weight per Bushel.		Quantity.	Weight per Bushel.		Quantity.	Weight per Bushel.		Quantity.	Weight per Bushel.		Quantity.	Weight per Bushel.		Quantity.	Weight per Bushel.		Quantity.	Weight per Bushel.
1	Unmanured	Bushels. 36½	lbs. 36½	cwts. 19½	Bushels. 16½	lbs. 35	cwts. 9½	Bushels. 20½	lbs. 33½	cwts. 11½	Bushels. 15	lbs. 36½	cwts. 7½	Bushels. 10½	lbs. 27½	cwts. 5½	Bushels. 24½	lbs. 33½	cwts. 10½	
2	{ 200 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3½ cwts. Superphosphate of Lime (a)	45	38½	24½	19½	35½	9½	22	35½	13½	19½	37½	10½	17	28½	8½	35	35	13½	
3	400 lbs. Ammonia-salts (a)	56½	37½	36½	30	34½	17½	57½	36½	40½	55½	37½	30½	36½	32½	16½	47	35%	28½	
4	{ 400 lbs. Ammonia-salts, 200 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3½ cwts. Superphosphate	75½	39½	54	50½	36	28½	58½	35½	50	62½	39½	45½	48½	34½	27½	59	37	41½	
5	550 lbs. Nitrate of Soda (a)	62½	38½	42½	36½	35½	23	55	36½	34½	42½	36½	20½	39½	30½	16½	47½	35½	27½	
6	{ 550 lbs. Nitrate of Soda, 200 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3½ cwts. Superphosphate	69½	38½	49½	50	35½	28½	60½	33½	48½	44½	37½	24	63½	33½	24	57½	35½	35	

(5)

SECOND 5 YEARS: MINERAL MANURES AS BEFORE, AMMONIA-SALTS AND NITRATE OF SODA ONLY HALF AS MUCH AS PREVIOUSLY.

		6TH SEASON, 1874.			7TH SEASON, 1875.			8TH SEASON, 1876.			9TH SEASON, 1877.			10TH SEASON, 1878.			AVERAGE PER ANNUM 5 YEARS, 1874-1878.		
		Bushels.	lbs.	cwts.	Bushels.	lbs.	cwts.	Bushels.	lbs.	cwts.	Bushels.	lbs.	cwts.	Bushels.	lbs.	cwts.	Bushels.	lbs.	cwts.
1	Unmanured	12	31½	7	12½	29½	5½	12½	29½	5½	12½	29½	5½	12½	29½	5½	12½	29½	5½
2	{ 200 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3½ cwts. Superphosphate of Lime (')	13½	31½	6½	13½	29½	6½	13½	29½	6½	13½	29½	6½	13½	29½	6½	13½	29½	6½
3	200 lbs. Ammonia-salts (')	37½	33½	22½	30½	32½	15½	30½	32½	15½	30½	32½	15½	30½	32½	15½	30½	32½	15½
4	{ 200 lbs. Ammonia-salts, 200 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3½ cwts. Superphosphate	46½	34½	24½	30½	34½	20½	30½	34½	20½	30½	34½	20½	30½	34½	20½	30½	34½	20½
5	275 lbs. Nitrate of Soda (')	35½	30 (')	16½ (')	23½ (')	31½ (')	11½ (')	23½ (')	31½ (')	11½ (')	23½ (')	31½ (')	11½ (')	23½ (')	31½ (')	11½ (')	23½ (')	31½ (')	11½ (')
6	{ 275 lbs. Nitrate of Soda, 200 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3½ cwts. Superphosphate	28½ (')	33½ (')	16½ (')	28½ (')	33½ (')	14½ (')	28½ (')	33½ (')	14½ (')	28½ (')	33½ (')	14½ (')	28½ (')	33½ (')	14½ (')	28½ (')	33½ (')	14½ (')

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

(') "Ammonia-salts"—in each case, equal parts Sulphate and Murate of Ammonia of Commerce.

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

(') On these plots, where large quantities of Nitrate of Soda had been applied year after year, the land, though more worked, was so wet that it could not be got into favourable condition for sowing, and the plant was very irregular.