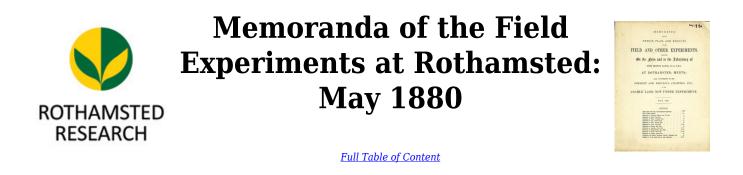
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Experiments on Oats; Geescroft Field

Rothamsted Research

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GEESCROFT FIELD.

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

Previous Gropping—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.
The first Experimental Oat Orop was in 1869; the last in 1878, since which time, owing to the wetness and the foulness of the land, it has been left fallow.

(Area under Experiment, # acre.)

	x			×					A	RODUCE	PRODUCE PER ACRE.	ë								1
	MANIRES PER ACRE PER ANNIM		1st Season, 1869.	1869.	2ND	2ND SEASON, 1870.	1870.	3RD	3RD SEASON, 1871.	1871.	4тн	4TH SEASON, 1872.	1872.	HTG	5TH SEASON, 1873.	1873.	AVERA 5 YEA	AVERAGE PER ANNUM 5 YEARS, 1869-1873.	ANNUM -1873.	
_	THE THE TRUE TO THE THE THE THE THE	-	Dressed Corn.		Dresse	Dressed Corn.		Dresse	Dressed Corn.		Dresse	Dressed Corn.		Dresse	Dressed Corn.		Dressee	Dressed Corn.		r.
		Quantity.	Weight Per Bushel.	E Straw.	Quantity.	Weight Per Bushel.	t Straw.	Quantity.	Weight Per Bushel.	Total Straw.	Quantity.	Weight Bushel.	Total Straw.	Quantity.	Weight per Bushel.	Total Straw.	Quantity.	Weight per Bushel.	Total Straw.	
	Unmanured	Bushels.	lbs. 36≩	ewts. 194	Buehels. 16g	1bs. 35	ewts. 91	Bushels. 20 ¹ / ₂	1bs. 33 <u>3</u>	ewts. 114	Bushels. 15	1bs. 361	cwts. 7 ¹ _g	Bushels.	1bs. 271	cwts. 53	Bushels. 192	1bs. 334	cwts. 103	
	200 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3 [‡] ewis. Superphosphate of Lime ⁽¹⁾	45	58 <u>1</u>	242	198	35 <u>1</u>	-9 ²	22	354	131	191	$37\frac{3}{4}$	108	17	285	38 8	243	35	13_{g}^{3}	
	400 lbs. Ammonia-salts ⁽²⁾	261	372	365	30	34_8^7	174	571	363	40_{8}^{5}	553	373	30§	361	325	167	47	357	281	
	 400 lbs. Ammonia-salts, 200 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3½ cwis. Superphosphate) 	754	39 1	54	50 [§]	36	285	58s	352	50	62 ³ 8	391	45ì	484	$34\frac{3}{4}$	275	59	37	418	
	550 lbs. Nituate of Soda (3)	$62\frac{1}{4}$	381	423	362	$35\frac{1}{4}$	23	55	365	343	42_{8}^{1}	36_{8}^{5}	$20\frac{5}{8}$	39 <u>4</u>	303	162	47_{g}^{1}	351	27,	
	550 lbs. Nitrate of Soda, 200 lbs. Sulphate Poiass 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3½ owts. Superphosphate	693	381	$49\frac{7}{8}$	20	352	284	604	533 5	48 ³	44 ⁵	374	24	63§	338	24	57 <u>1</u>	35 <u>8</u> 4	35	
	SECOND 5 YEARS;	3; MINERAL M	AL MAP	URIES AS	LANURUS AS BEFORE, AMMONIA-SALTS AND NURATE OF SODA ONLY HALF AS MUOH AS PREVIOUSLY.	, Ammoi	NIA-BALT	N UNA 8	ITRATE (OF SODA	ONLY H	ALF AS D	IUCH AS	PREVIOU	SLY.			2		ĩ
		GTH S	CTH SEASON, 1874.	1874.	7TH S	7TH SEASON, 1875.	875.	8TH SE	8TH SEASON, 1876 (⁵).	(g (g).	9TH SE	9th Season, 1877 (⁶). Fallow.	7 (⁶).	10тн 8	10TH SEASON, 1878.		AVERAG 4 YEARS,	AVERAGE PER ANNUM YEARS, 1874, 5, 6, and 8.	NNUM 6, and 8.	
	Unmanured	Bushela. 12	$\frac{1\text{bs.}}{31\frac{1}{2}}$	ewts. 7	Bushels, 123	1bs. 293	cwts. 57	Bushels. 84	lbs. 32	cwts. 25	Bushels.	lbs.	cwts.	Bushels.	lbs. 32	cwts. 83	Bushels.	1bs. 314	cwts. 6	
	200 Ibs. Sulphate Potass, 100 Ibs. Sulphate Soda, 100 Ibs. Sulphate Magnesia, and 3 ³ / ₂ cwts. Superphosphate of Lime (¹)	138	314	61	13_8^1	29_{4}^{3}	67	78	30	288 288	:	3	:	$17\frac{3}{4}$	35≵	84	131	316	6¦	
	200 lbs. Ammonia-salts (²)	374	334	22_8	30 ³	32%	153	17_{8}^{5}	34 <mark>1</mark>	9	÷	:	:	30	$32\frac{3}{4}$	12_{6}^{3}	28g	33‡	$-14\frac{1}{8}$	
	200 lbs. Ammoniu-salts, 200 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3½ ewts. Superphosphate	464	34 ⁵	24 5	305	$34\frac{7}{8}$	$20\frac{1}{4}$	294	352	122	:	:	:	453	37	22 <u>3</u>	38	35 <u>4</u>	20	a
	275 lbs. Nitrate of Soda (³)	35g (1)	30 (4)	16½ (¹)	$23\frac{1}{2}(^{4})$	314 (4)	$11\frac{3}{8}(^{4})$	$12\frac{3}{4}$	303	34	:	:	:	34_{8}^{1}	341	122	263	31§	11	
	275 lbs. Nitrate of Soda, 200 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 31 owts. Superphosphate	284 (1)	33 <u>4</u> (4)	16§ (4)	28§ (1)	33 ⁵ / ₈ (⁴) 14 ⁴ / ₂ (⁴)	142 (4)	19 _å	334	00	:	:	:	37	364	172	28 <u>1</u>	34 ₈	$14_{ m g}$	
							110													

"Superphosphate of Lime"—in all cases, made from 200 lbs. Bone-ash, 150 lbs. Sulphurio Acid sp. gr. 1.7 (and water).
 "Ammonis-sults"—in each case, equal parts Sulphate and Muriate of Ammonia of Commerce.
 550 lbs. Nituate of Sodi is redoknot be contain the same amount of Nitrogen as 400 lbs. "Ammonis-sults"
 Obving to these plots, there large quacturistic of Ammonia and the same amount of Nitrogen as 400 lbs. "Ammonis-sults."
 Obving to the extremely wet condition of the land, epochable ben splited year after year, the land, though more workel, was so wet that it could not be got into favourable condition for sowing, and the plant was very inregular.
 Owing to the extremely wet condition of the land, epocally on the Nitrinte plots, it was not sown until April 6, and then with a very unfavourable seel bot; and there being a heavy full of snow a week later, the plant came up you found to fit perished from standing surface-water.
 Owing to the very wet winter, 1876-7, the land ond how low large redowng, and was therefore left fallow in 1877; no manures being applied.

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