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## Memoranda of the Field Experiments at Rothamsted: May 1879



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## **Experiments on Oats; Geescroft Field**

## **Rothamsted Research**

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(11)

## GEESCROFT FIELD.

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

Previous Cropping—1847 and 1848, Clover, Experimental Manures; 1849—1859, Beans, Experimental Manures; 1860, Fallow; 1861 and 1862, Wheat, Unmanured; 1866, Beans, Unmanured; 1867 and 1868, Wheat, Unmanured.

First Experimental Oat Crop in 1869.

(Area under Experiment, \$ acre.)

									PR	ODUCE P	PRODUCE PER ACRE,									
Prors.		lsr S	1st Season, 1869.	369.	2ND S	2nd Season, 1870.	870.	3RD S	3RD SEASON, 1871.	871.	4TH S.	4TH SEASON, 1872.	872.	5тн 8	5TH SEASON, 1873.	1873.	AVERA 5 YEAD	AVERAGE PER ANNUM 5 Years, 1869-1873.	NNUM 1873.	
	MANORES, FER ACKE, FER ANNUM.	Dressed	Corn.		Dressed Corn.	Corn.		Dregsed Corn.	Corn.		Dressed Corn.	Corn.		Dressed	Dressed Corn.		Dressed Corn.	Corn.		
- 3		Quantity.	Weight per Bushel,	Total Straw.	Quantity.	Weight Per Bushel.	Total Straw.	Quantity.	Weight per Bushel.	Total Straw.	Quantity.	Weight per Bushel.	Total Straw.	Quantity.	Weight per Bushel.	Total Straw.	Quantity.	Weight per Bushel,	Total Straw.	.00
	Unmanured	Bushels.	lbs. 36≩	cwts. 194	Bushels. 163	1bs.	cwts.	Bushele, 20½	1bs. 333	ewts.	Bushels.	1bs. 36≵	cwts.	Bushels.	1bs. 271	cwts.	Bushels.	1bs. 334	cwts. 103	Y.
67	200 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and $3\frac{1}{2}$ cwts. Superphosphate of Lime $^{(1)}$	45	583	243	19g	351	ęę.	22	354	133	192	373	10%	17	288	10100 00	243	35	133	
0	400 lbs. Ammonia-salts (2)	563	373	362	30	341	174	571	363	408	553	373	308	363	325	163	47	353	283	
4	400 lbs. Ammonia-salts, 200 lbs. Sulphate Potass,   100 lbs. Sulphate Soda, 100 lbs. Sulphate   Magnesia, and 3½ cwts. Superphosphate	754	394	54	508	36	288 8	588	358	20	623	394	451g	484	343	273	59	37	411	
10	550 lbs. Nitrate of Soda (3)	624	384	423	363	351	23	55	365	343	42g	368	208	394	303	163	47½	353	273	
9	550 lbs. Nitrate of Soda, 200 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Maguesia, and 34 cwts. Superphosphate	£69	382	497	50	352	283	₹09	33. 24.	48g	448	374	24	638	60 60 80 80 80	24	573	353	5G	
	Second 5 Years; Minbral Manures as before, Amonia-sales and Nethate of Soda only half as fineviously.	MINERA	L MAND	TRES AB	BEFORE,	AMMONI	A-SALTS	AND Nr.	TRATE O	F Soda	ONLY HAI	CF AS M	UCH AS	PREVIOU	SLY.		.52			Y.
		6тн S	6тн Ѕеаson, 1874.	74.	7TH SE.	7TH SEASON, 1875.	75.	8TH SEA	8rH SEASON, 1876 (5).	3.0.	9TH SEASON, 1877 (6). FALLOW.	30N, 1877 ALLOW.	(6):	10TH S	10TH SEASON, 1878.	878.	AVERAG 4 YEARS, ]	AVERAGE PER ANNUM YEARS, 1874, 5, 6, and 8,	num,	
Ī		-	-					-	-			-								

	2 -						
.2	AVERAGI 4 YEARS, 1	Bushels.	138	28%	88 .	263	283
	.878	cwts.	14	$12\frac{3}{8}$	222	123	171
C PERMS , MINERAL MANUES AS DEFONE, IMMUNIA SALIS AND INTERES OF NODE OF INTERES OF SALIS AND INTERES.	10rH SEASON, 1878.	1bs.	354	323	37	344	36‡
	10rm	Bushels.	173	80	458	341	37
	77 (6).	cwts.		•	•	•	
-	9TH SEASON, 1877 (°). FALLOW.	lbs.	. 18	÷	:	:	:
1 7777	9ru Se	Bushels.		:	•	:	;
OF POOL	76 (%).	cwts.	258	9	121	37	00
TENTE	8TH SEASON, 1876 (5).	1bs. 32	30	$34_{g}^{1}$	351	30%	334
משק מודי	STH SE.	Bushels.	73	178	<b>*</b> 67	123	198
MIA-BALL	.875.	cwts.	£9	153	₹02	113 (*)	143 (+)
, temmo	7TH SEASON, 1875.	1bs.	263	327	347	314 (4)	33g (4) 14½ (4)
and and c	7тн 8	Bushels, 12½	13g	303	308	233 (4)	285 (4)
NORTH W	1874.	cwts.	62	223	245	16½ (4)	83½ (4) 16½ (4)
AL LAN	6тн Ѕвазом, 1874.	1bs. 31½	314	333	348	30 (4)	83½ (4)
, TELLINE	6тн 3	Bushels.	138	374	463	354 (4)	284 (4)
6 CHITTE O CHOOSE C		Unmanured	(200 lbs. Sulphate Potass, 100 lbs. Sulphate Soda,) 100 lbs. Sulphate Magnesia, and 3½ cwts. Superphosphate of Lime (¹)	200 lbs. Ammonia-salts (2)	200 lbs. Ammonia-salts, 200 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3½ cwts. Superphosphate	275 lbs. Nitrate of Soda (3)	275 lbs. Nitrate of Soda, 200 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 34 cwts. Superphosphate

(3) "Superphosphate of Lime"—in all cases, made from 200 lbs. Bone-ash, 150 lbs. Sulphuric Acid sp. gr. 1.7 (and water).
(3) "Ammonia-salts"—in each case, equal parts Sulphate and Muriate of Ammonia of Commerce.
(5) On these plets, where argequantities of Nitrace 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.
(3) On these plets, where argequantities of Nitrace plots and the 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 to week later, the plant came up very irregularly, and much of it perished from standing surface-water.
(2) Owing to the very wet winter, 1876—7, the land could not be worked in time for sowing, and was therefore left fallow in 1877; no manures being applied.

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 $14\frac{1}{8}$ 20  $11\frac{1}{3}$ 

 $33\frac{1}{2}$  $35\frac{1}{2}$  $31\tfrac{5}{8}$  $34\frac{1}{3}$