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Memoranda of the Field Experiments at Rothamsted: May 1877



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Experiments on Oats; Geescroft Field

Rothamsted Research

Rothamsted Research (1878) *Experiments on Oats; Geescroft Field ;* Memoranda Of The Field Experiments At Rothamsted: May 1877, pp 5 - 5 - **DOI:** https://doi.org/10.23637/ERADOC-1-241

(5)

GEESCROFT FIELD.

Experiments on the Growth of OATS year after year on the same Land; without Mandre, and with different kinds of Mandre.

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; 1866, Beans, Dunged; 1865, Wheat, Unmanured; 1867 and 1868, Wheat, Unmanured; 1866, Beans, Dunged; 1866, Wheat, Unmanured; 1866, Beans, Dunged; 1866, Wheat, Unmanured; 1867, Wheat, Unmanured; 1867, Wheat, Unmanured; 1868, Wheat, Unmanured; 1868, Wheat, Unmanured; 1867, Wheat, Unmanured; 1868, Wheat, Un First Experimental Oat Crop in 1869.

(Area under Experiment, \$ acre.)

									-
	Average per Annum 5 Years, 1869-1873.		Total Straw.	cwts. 103	133	283	411	273	35
		Corn.	Weight per Bushel.	1bs.	35	357	37	353	35 4
	AVERAC 5 YEAR	Dressed Corn.	Quantity.	Bushels.	243	47	59	471	573
	5TH SEASON, 1873.	Total Straw.		cwts.	888	163	273	163	24
		Corn.	Weight per Bushel.	, 1bs. 271	22 88 88	325	343	304	60 88 88
	S HIG	Dressed Corn.	Quantity.	Bushels.	17	363	483	393	635
	4TH SEASON, 1872.	Total Straw.		cwts.	103	308	453	205	24
		Corn.	Weight per Bushel.	1bs.	373	373	393	368	374
PRODUCE PER ACRE.	let Season, 1869. 2nd Season, 1870. 3nd Season, 1871. 4711 S	Dressed Corn.	Quantity.	Bushels.	193	553	623	42 ₈	445
RODUCE		Total Straw.		cwts.	133	408	50	343	488
PB		Corn.	Weight per Bushel.	1bs. 33½	351	363	353	365	53 448
		Dressed Corn.	Quantity.	Bushels.	22	571	55	22	£09
		Total Straw.		cwts.	988	174	25 85 85	23	283
		Dressed Corn.	Weight per Bushel.	1bs.	351	347	36	351	354
			Quantity.	Bushels.	191	30	50%	363	50
		Total Straw.		ewts. 19‡	243	363	54	423	49 <u>7</u>
		Corn.	Weight per Bushel.	lbs. 36≩	383	873	394	283	383
	1sr S	lsr SE Dressed (Quantity.	Bushels,	45	563	75‡	623	698
	MANURES, PER AORE, PER ANNUM.				200 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3½ owts. Superphosphate of Lime ⁽¹⁾	400 lbs. Ammonia-salts (2)	(400 lbs. Ammonia-salts, 200 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3½ cwts. Superphosphate)	550 lbs. Nitrate of Soda (3)	(550 lbs. Nitrate of Soda, 200 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3½ cwts. Superphosphate
	PLOTS.			7	67	00	4	žÇ.	9

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NUM 878.	cwts.					
AVERAGE PER ANNUM 5 YEARS, 1874-1878.	lbs.	*);			4	
AVERAG 5 YEARS	Bushels.					
1878.	cwts.					
10TH SEASON, 1878.	lbs.					
10тн	Bushels,	3				
77 (°).	cwts.				5	
9TH SEASON, 1877 (°). FALLOW.	lbs.					
9TH SE	Bushels.		V			1
76 (5).	cwts.	200	9	121	33	œ
8TH SEASON, 1876 (5).	1bs. 32	30	341	353	308	334
8rh Se	Bushels.	73	175	291	123	198
875.	cwts.	29	153	203	113(4)	14½ (4)
7rH SEASON, 1875.	1bs.	293	323	343	29½(4) 31¼(4) 11¾(4)	28 (4) 33 (4) 14 (4)
7тн 8	Bushels.	131	808	308	23½(4)	288 (4)
1874.	cwts.	₹9	223	245	30 (4) 16½ (4)	33½ (4) 16§ (4)
6тн Season, 1874.	1bs.	314	334	345	30 (4)	33½ (4)
6тн	Bushels.	1888	373	463	351 (4)	281 (1)
	Unmanured	(2001b). Sulphate Potass, 106 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3½ cwts. Superphosphate of Lime (†)	200 lbs. Ammonia-salts (2)	200 lbs. Ammonia-salts, 200 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 31 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 cwfs. Superphosphate
	I	01	60	4	ō.	9

^{(*) &}quot;Superphosphate of Lime"—in all cases, made from 200 lbs. Bone-sah, 150 lbs. Sulphuric Acid ep. gr. 1.7 (and water),

*A monois-salts"—in each case, equal parts Sulphate and Muriate of Anmonia of Commerce.

(*) 50 and superphosphate of Soda is reclorate to carbin the same amount of Throgen 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.

(*) 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, and much of it perished from standing surface-water.

(*) Owing to the very wet winter, 1876-7, the land could not be worked in time for sowing, and is now (1877) left fallow.