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Yields of the Field Experiments 1878



Full Table of Content

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 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; 1866, Beans, Unmanured; 1867, Wheat, Unmanured; 1868, Wheat, Unmanured; 1866, Beans, Unmanured; 1867, Wheat, Unmanured; 1868, Wheat, Unmanured; 1866, Wheat, Unmanured; 1866, Beans, Unmanured; 1869, Wheat, Unmanured; 1866, Beans, Unmanured; 1869, Wheat, Unmanured; 1866, Beans, Unmanured; 1869, Wheat, Unmanured;

First Experimental Oat Crop in 1869.

(Area under Experiment, & acre.)

MANUIRES, PER ACRE, PER ANNUM Propert Corn. Propert Propert Corn. Propert Corn. Propert Prop								1		Pı	RODUCE 1	PRODUCE PER ACRE.							K	
MANDIESS, PER ACRE, PER ANNOW Dread Corn. Dread Corn			1sr S	SEASON, 1	869.	2ND 8	SEASON,	1870.	SRD S	SEASON, 1	.871.	4тн S	EASON, 1	372.	5тн 8	EABON, 1	873.	AVERAC 5 YEAR	AVERAGE PER ANNUM 5 YEARS, 1869-1873.	NNUM 1873.
Commonwed Comm	PLO		Dressed			Dressed	Corn.		Dressed	Corn.		Dressed	Corn.		Dressed	Corn.		Dressed Corn.	Corn.	
Contractic control c			Quantity.		Total Straw.	Quantity.			Quantity.		Total Straw.	Quantity.	Weight per Bushel.	Total Straw.	Quantity.	Weight per Bushel.	Total Straw.	Quantity.	Weight per Bushel.	Total Straw.
Story the Supplies Prize at 10 lbs. Sulphate Potess; 10 lbs. Sulphate	-		Bushels.		cwts. 194	Bushels.	1bs.	owta.	Bushels.	1bs. 333	cwts. 114	Bushels.	lbs. 364	cwts.	Bushels.	1bs. 271	cwts.	Bushels.	1bs.	cwts. 103
400 lbs. Anmonia-salls % 56j 57‡ 50j 52 55j 57j 50j 55j 57j 50j 57j 50j	64	(200 lbs. Sulphate Potass, 100 lbs. Sulphate Sods.) (100 lbs. Sulphate Magnesia, and 3½ cwts.) Superphosphate of Lime (9		383	243	191	351	eg vin	22	354	13}	₹61	373	103	17	285	, 00 , 00 , 00 , 00 , 00 , 00 , 00 , 00	243	35	133
400 Ra Armanoriasella 200 Ra Sulphate Potesse Sulphate Potesse	63	: : : :	561	373	367	30	347	174	573	863	408	553	373	308	363	325	162	47	353	284
Scot Dis. Niturato of Sodia. © Sept. Sep	4	(400 lbs. Ammonia-salts. 200 lbs. Sulphate Poiass) 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3½ cwts. Superphosphate	15\$	\$93	54	508	36	2888	588 883	358	50	623	393	45g	48}	343	275	59	37	411
Sacrot Day, Nitrate of Soda, 200 Das, Sulphate Potases, and 3g overs. Superphosphate of Magaresia, and 3g overs. Supprhosphate of Potases, 100 Das, Sulphate Soda, 100 Das, Sulphate Sulphate Soda, 100 Das, Sulphate Sulphate Soda, 100 Das, Sulphate Sulphate Soda, 100 Das, Sulphate Soda, 100 Das, Sulphate Sulphate Sulphate Soda, 100 Das, Sulphate Sulphate Soda, 100 Das,	50	:	624	383	423	363	351	23	55	368	343	421g	368	205	39₹	303	163	471	351	273
Commanded Comm	. မ	(550 lbs. Nitrate of Soda, 200 lbs. Sulphate Polass, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 8‡ owts. Superphosphate	698	381	497	20	85 84	283	₹09	35 <u>\$</u>	483	44.5	374	- 54	635	888	24	573	354	35
Unmanured Unma		SECOND 5 YEARS;	; MINER.	AL MAN	TURES AS	BEFORE	Аммо	TIA-BALT	M GNA 8	TERATE	OF SODA	ONLY HA	LF AS M	UCH AB	PREVIOU	SLY.				
Unmanured			6тн 8		874.	7TH S	EABON, 1	875.	STH SE	ASON, 187	76 (G).	9TH SEA	SALLOW.	7(3).	10тн	SEASON,]	1878.	AVERAC 5 YEAR	AVERAGE PER ANNUM 5 YEARS, 1874-1878.	NNUM 1878.
200 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, and 34 evets 13\(\text{3}\) 31\(\frac{1}{4}\) 13\(\text{4}\) 13\(\	1	: : : : : : : : : : : : : : : : : : : :	Bushels.	1bs. 313	cwts.	Bushels.	1bs. 293	cwta. 5g	Bushels.	lbs. 32	cwts.	Bushels.	lbs.	cwts.	Bushels.	Ibs.	cwts.	Bushels.	Ibe.	cwts.
200 Dbs. Anmonia-salts (*)	6.1	(2001bs. Sulphate Potass, 1001bs. Sulphate Sods,) 100 1bs. Sulphate Magnesia, and 3½ cwts.) Superphosphate of Lime (¹)	138	314	₹9	13g	29%	£9	014	30	258	*	٠, `	:			Ta Ta			
200 lbs. Ammonin-salts, 200 lbs. Sulphate Potass, 462 345 245 305 345 245 305 345 122	63		374	331	223	303	327	153	175	341	9	•	:	ě.		-		-		
275 lbs. Nitrate of Soda, 200 lbs. Sulphate Potass, {28½ (*) 33½ (*) 16½ (*) 28½ (*) 31½ (*) 11½ (*) 12½ 30½ 83½ (*) 100 lbs. Sulphate Soda, 100 lbs. Sulphate	4	(2001bs, Ammonia-salts, 2001bs. Sulphate Potass, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3½ cwts. Superphosphate	462	348	248	308	347	₹02	\$6Z	351	123		:	:		,		8		
(275 lbs. Nitrate of Soda, 200 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Soda, 100 lbs. Supprise	10	: : : : : :	351 (4)		16½ (*)	234 (*)	314(4)	113 (1)	123	30g	32		:	:						
	9	(275 lbs. Nitrate of Soda, 200 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3½ owts. Superphosphate	284 (*)	33½ (4)	16g (4)	28 (4)	38g (4)		198	334	œ	1	:	:		0				

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

(2) 54 Ammonisselts—"in ach case, spend parts Sulphur and Muriate of Ammonia of Commerce.

(3) 550 lbs. Nitrate of Soul air reciconed to contrast numeria of Commerce.

(4) 50 lbs. Nitrate of Soul air reciconed to contrast numeria of Nitragen as 400 lbs. "Ammonia-salts."

(5) 50 lbs. Nitrate of Soul air reciconed to contrast numeria of Nitragen as 400 lbs. "Ammonia-salts."

(5) 60 these plots, where large quantities of Nitrate of Soul 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 came up yeary invegularly, and much of it peribled from standing surface-water.

(7) 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.

made from 200 lbs. Bone-ash, 150 lbs. Sulphuric Acid sp. gr. 1-7 (and water).