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## Yields of the Field Experiments 1876



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

## **Rothamsted Research**

Rothamsted Research (1877) *Experiments on Oats; Geescroft Field ;* Yields Of The Field Experiments 1876, pp 5 - 5 - **DOI: https://doi.org/10.23637/ERADOC-1-240** 

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.

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Protection      Description      State in the interval of the			-		- 1		0	(	5	)						1	
Protect First Act Rise Statistication from the first from the first action from the first from the first action from the first actin from the first action from the first actin from the		-1873.		Total Straw.	cwts. 10g	138	$28\frac{1}{2}$	418	273	35		-1878.	cwts.				
Protect First Act Rise Statistication from the first from the first action from the first from the first action from the first actin from the first action from the first actin from the		AVERAGE PER A 5 YEARS, 1869-	Corn.	Weight per Bushel.	1bs. 33≇	35	357	37	354	354		ав РЕВ А	lbs.				
MANUERS, FER AORE, FER ANNUR      In Stateor, ISO.      200 Stateor, ISO.			Dressed	Quantity.	Bushels. 19 <sup>7</sup> / <sub>8</sub>	24½	47	59	471	573		AVERA 5 YEA	Bushels.				
MANURUSS, FER ACRE, FER ANNUM.      Ter Statons, 1870.      Store Statons, 1870.      Store Statons, 1871.      Fer Statons, 1871.      Fer Statons, 1871.      Fer Statons, 1872.        Inter Statons, 1800.      Dresed Corr.		1873.			cwts. 58	88 88	$16\frac{2}{4}$	27 <sup>5</sup>	164	24		1878.	cwts.			Η.	
MANURUSS, FER ACRE, FER ANNUR.      Description of the function of the fun		EASON, 1	I Corn.		.1bs.	285 865	$32_{6}^{5}$	$34\frac{8}{4}$	$30\frac{1}{4}$	338	BLY.	SEASON,	lba.				
MANURES, PER ACRE, PER ANNUM.  Isr Saa    MANURES, PER ACRE, PER ANNUM.  Dressed C.    Umanured		HTG.	Dressed	Quantity.	Bushels.	17	363	48	393	635	PREVIOU	10тн	Bushels.				
MANURES, PER ACRE, FER ANNUM.  Isr State    MANURES, PER ACRE, PER ANNUM.  Dressed C.    Umanured		872.		Total Straw.	$\frac{cwts.}{7_8^1}$	103	306	45 <sup>1</sup> 8	205	24	NUCH AS	.877.	cwta.				
MANURES, PER ACRE, FER ANNUM.  Isr State    MANURES, PER ACRE, PER ANNUM.  Dressed C.    Umanured		SEASON,	I Corn.		1bs. 36 <b>4</b>	374	371	<b>39</b> 4	36§	374	ALF AS 1	SEASON, 1	Ibs.			1.	×
MANURES, PER ACRE, FER ANNUM.  Isr State    MANURES, PER ACRE, PER ANNUM.  Dressed C.    Umanured	PER ACRE	4TH	Dressed	Quantity.	Bushels. 15	194	553	623	42 <sup>1</sup> / <sub>8</sub>	44 <sup>5</sup>	ONLY H	9 HT 6	Bushels.				
MANURES, PER ACRE, FER ANNUM.  Isr State    MANURES, PER ACRE, PER ANNUM.  Dressed C.    Umanured	RODUCE 1	871.			cwts. 11∔	13,	$40_{\rm B}^{5}$	50	34&	48 <sup>3</sup>	DF SODA	876.	cwta.				
MANURES, PER ACRE, FER ANNUM.  Isr State    MANURES, PER ACRE, PER ANNUM.  Dressed C.    Umanured	P		Dregsed Corn.		1bs. 33 <u>1</u>	354	363	358	368	333	TRATE 0	EASON, 1	1bs.			1	
MANURES, PER ACRE, PER ANNUM.  Isr Saa    MANURES, PER ACRE, PER ANNUM.  Dressed C.    Umanured				Quantity.	Bushels. 20 <u>4</u>	22	57 <u>8</u>	588	55	60 <del>4</del>	IN UNA 8	STH S	Bushels.				
MANURES, PER ACRE, PER ANNUM.  Isr Saa    MANURES, PER ACRE, PER ANNUM.  Dressed C.    Umanured			Total Straw.		cwta. 9i	98	174	$28_8^6$	23	208 4	IIA-BALT	375.	cwta. 53	67	153	204	113 (1)
MANURES, PER ACRE, FER ANNUM.      Isr San        MANURES, PER ACRE, FER ANNUM.      Dressed C.        Ummanured       Dressed C.        Ummanured          Ummanured          Ummanured          Ummanured          200 1bs. Sulphate Potass, 100 1bs. Sulphate Solas, Superphosphate of Lime Co.         45      Superphosphate of Lime Co.         400 1bs. Ammonia-selts Co.       563        400 1bs. Ammonia-selts Co.       564        400 1bs. Ammonia-selts Co.          5550 1bs. Nitrate of Soda, 100 1bs. Sulphate Potass, Naguesia, and 3§ overs. Superphosphate         5550 1bs. Nitrate of Soda, 100 1bs. Sulphate Potass, Magnesia, and 3§ overs. Superphosphate         5550 1bs. Nitrate of Soda, 100 1bs. Sulphate Potass, 100 1bs. Sulphate Soda, 100 1bs. Sulphate Potass, 100 1bs. Sulphate Potass, 100 1bs. Sulphate Soda, 100 1bs. Sulphate Potass, 100			Dressed Corn.		1ba. 35	358	$34_{8}^{7}$	36	354	352	AMMON	EABON, 1	1bs. 29å	294	328	347	314 (1)
MANURES, PER ACRE, FER ANNUM.  Isr State    MANURES, PER ACRE, PER ANNUM.  Dressed C.    Umanured				Quantity.	Bushels. 16 <sup>3</sup> / <sub>8</sub>	196	30	50 <del>8</del>	36 <u>1</u>	50	BEFORE,	7TH S	Bushels. 12½	138	303	30g	234 (1)
MANURES, PER ACRE, PER ANNUM.  Isr Saa    MANURES, PER ACRE, PER ANNUM.  Dressed C.    Umanured		EASON, 1869.		Total Straw.	cwts. 194	242	365	54	427	49 <sup>7</sup>	URES AS	EASON, 1874.	cwts. 7	6Å	223	248	164 (')
MANURES, PER ACRE, FER ANNUM.  D    MANURES, PER ACRE, FER ANNUM.  D    Ummanured      Ummanured      Ummanured      Unmanured      Unmanured      Unmanured      Unmanured      1200 lbs. Sulphate Potass, 100 lbs. Sulphate Potass, 200 lbs. Sulphate Potass,			Corn.		lbs. 36≩	383	371	39 <del>1</del>	383	38 <u>1</u> 38 <u>1</u>			31 <b>3</b>	81	334	348	£
MANURES, FER ACRE MANURES, FER ACRE Unmanured		1sr S	Dressed	Quantity.	Bushels. 36§	45	56 <u>1</u>	154	624	693	MINER	6TH S	Bushels. 12	135	374	462	_
00 1 1 0 0 4 10 0 1 0 0 4 10 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0					200 Ibs. Sulphate Potass, 100 Ibs. Sulphate Soda, 100 Ibs. Sulphate Magnesia, and 3 <sup>4</sup> / <sub>2</sub> owts. Superphosphate of Lime <sup>(1)</sup>		400 lbs. Ammonia-salts, 200 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 34 cwts. Superphosphate	:	[550 lbs. Nitrate of Soda, 200 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 32 ewts. Superphosphate	SECOND 5 YEARS;		:::::::::::::::::::::::::::::::::::::::	$ \left\{ \begin{array}{llllllllllllllllllllllllllllllllllll$		(2001bs, Ammonia-salts, 2001bs. Sulphate Potass, 1001bs, Sulphate Soda, 1001bs, Sulphate Magnesia, and 34 owts. Superphosphate	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	
		Drome	L LUIS.		1	73	8	4	5	9			Т	61	ŝ	4	5

<sup>(3)</sup> "Superphosphate of Lime"—in all cases, made from 200 lbs. Bone-salt, 150 lbs. Sulphuric Acid sp. gr. 1.7 (and water).
 <sup>(3)</sup> "Amonia-salts"—in each case, quala private of Ammonia of Commerce.
 <sup>(3)</sup> S50 lbs. Nitrate Seda in a concent the same amount of Nitrogan as 400 lbs. "Amonia-salts."
 <sup>(3)</sup> S50 lbs. Nitrate Seda in a concent the same amount of Nitrogan as 400 lbs. "Amonia-salts."
 <sup>(4)</sup> 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.

144 (1)

335 (1)

28§ (4)

165 (4)

331 (4)

284 (\*)

275 lbs. Nitrate of Soda, 200 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 33 ovts. Superphosmate

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