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Memoranda of the Plan and Results of the Rothamsted Field Experiments -Supplement - June 1864



Full Table of Content

Experiments on Wheat: Broadbalk Field

Rothamsted Research

Rothamsted Research (1865) *Experiments on Wheat: Broadbalk Field;* Memoranda Of The Plan And Results Of The Rothamsted Field Experiments - Supplement - June 1864, pp 2 - 2 - **DOI:** https://doi.org/10.23637/ERADOC-1-231

DIFFERENT KINDS OF MANURE. YEAR AFTER YEAR ON THE SAME LAND; WITHOUT MANURE, AND WITH OF WHEAT Experiments on the Growth

BROADBALK FIELD.

First Experimental Wheat Crop in 1844. Wheat every year since; and with some exceptions, nearly the same description of Manures on the same Plots each year— The last four Crops Unmanured. Peas; 1842, Wheat; 1843, Oats. (Area under experiment about 13 acres.) Barley; 1841, Previous Cropping--1839, Turnips, with Farmyard Manure; 1840, especially during the last 12 years.

	on, 1863.		ht Total Straw. el.	cwts. 164 15½	382 1441 1444 1443	1 55 83 95 85 85 85 85 85 85 85 85 85 85 85 85 85	561 372 31 364	8 8 10 4 8 8 10 8 8 4 1 8	46 453	614	$\binom{11}{12}$ $\binom{17}{43}$ $\binom{12}{12}$	403	131	221 24
Ē.	Twentieth Season, 1863.	Dressed Corn.	ty. Per Bushel.	s. 1bs. 623 6223 6223	631 623 623 44	62244	6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	622 622 622 622 622 623 623 64	623 623	623	$ \begin{array}{ccc} 1 & (11) & 62\frac{2}{3} & (11) \\ 1\frac{1}{4} & (12) & 62\frac{2}{6} & (12) \\ \end{array} $	627	23 623	\$ 62½ 62¾
PER ACRE		Dres	Quantity.	Bush, pks. 22 0\frac{1}{2} 20 3	$\begin{array}{ccc} 44 & 0 \\ 17 & 1 \\ 20 & 1 \end{array}$	19 24 39 24 53 24 55 24	55 24 41 13 39 03 43 24	45 - 3 54 0 53 14 53 34	$\frac{48}{48} 1^{1}_{4}$	55 33	21 1 46 1	46 23	17 2	27 2½ 29 3
PRODUCE P	Average per Annum, over 12 Years, 1852-1863.	Total Straw.		cwts, 162 153	341 145 151	17 27 37 42	2001 2001 2001 2001 2001 2001	07 60 60 00 70 70 8 4= 4= 218 4	34 36	46	$33\frac{1}{2}$ (1) $17\frac{3}{4}$ (10)	313	154	$21 \\ 20\frac{1}{2}$
		Dressed Corn.	Weight per Bushel.	1bs. 573 574	594 561 574	55 55 55 55 55 55 55 55 55 55 55 55 55	57 552 56 57	70 70 70 60 80 80 60 80 80 80 60 60 80 80	70 70 80 1/2 6/4	573	584(9) 58 (10)	58	22	58 57 3
			Quantity	pks.	다 6년 3년 대한 8년4		ତଃ ଓଡ଼ ହଃ ଓଡ଼ ଲକ ⊣୍ୟରଣକ	9002 5004444	0 8144-451	¢4	31(10) 32(10)	C1 614	25 15	0 CJ 814814
	A		Ö	Bush. 18 16	35 15 16	18 28 38 38 38	25 25 26 26 26	25.9 4.8 3.5 4.8 3.5 3.5	33	38	32	31	15	22 21
				0.0	111	1111	::::	1111	500 lbs. Rape-cake	1	1 1	500 lbs. Rape-cake	:	::
				3.1	111	1111	1111	11,11	Rape	() ()	33	Rape	:	8.8
				1.3	111		1111	1111	o Ibs.	1	11) lbs.		88
`				9.1			1111	1111	d 50(9		d 500	:	11
100	Manures, per acre, for the growing (21st) Wheat-crop—1864. 1 acre 1 bushel 1 count, avoir.) 1 cut, (pound avoir.) 2 chout) 3 chout 3 chout 4 chout 4 chout 5 chout 6 chout 6 chout 6 chout 7 chound avoir. 1 bushel per acre 6 chout 1 court, per acre 6 chout 1 court, per acre 7 chout 1 court, per acre 8 chout 1 court 1 cour					8 8 6-8		76 76 76 75	and	1		"; and		
					:::	Ammonia-salts ⁽³⁾ ditto	550 lbs. Nitrate of Soda 550 lbs. ditto 400 lbs. "Amnonia-salts", 400 lbs.	ditto ditto ditto ditto	ditto ditto	ditto	ditto	300 lbs. "Ammonia-salts"	20 M2 M2 M2	Muriate Ammonia Sulphate Ammonia
					hate and Amme	and 200 lbs. and 400 lbs. and 600 lbs.	and 550 lbs. 550 lbs. 400 lbs. 400 lbs.	; and 400 lbs. ; and 400 lbs. ; and 400 lbs. ; and 400 lbs.	; and 400 lbs.	; and 800 lbs.	; 400 lbs.	\$ 300 lbs.	1	; and 100 lbs. ; and 100 lbs.
					Farm-yard dung (14 tons every year)	and Superphosphate of Lime ⁽³⁾ ditto ditto ditto	ditto none none since 1844 0); none (except 1844, '48, & '50)	; "Superphosphate of Lime"; ditto ditto	ditto(8) ditto(8)	ditto	none "Superphosphate of Lime"	ditto(a)		" Superphosphate of Lime" ditto
	HHENER			Superphosphate of Lime (three times as much as on No. 5 and succeeding Plots) Mixed Alkalies (twice as much as on No. 5 and succeeding Plots) \dots	Farm-yard dung (14 tons every year) Ummanured, continuously Unmanured for Crop of 1852, and sin	Mixed Alkalies ⁽¹⁾ ditto ditto ditto	ditto none none since 1844 none (except 1844, 48 and '50); none (except 1844,	none 366½ lbs.(4) Sulphate of Soda 200 lbs.(9) Sulphate of Potass 280 lbs.(©Sulphate of Magnesia,	" Mixed Alkalies " ditto	ditto	none "Mixed Alkalies"	none	Unmanured continuously	" Mixed Alkalies" difto
		PLOTS.	0	0 1	91 to 41	5 (a-b) 8 (a-b) 8 (a-b)	$9 \begin{Bmatrix} a \\ b \end{Bmatrix}$	11 $a-b$ 12 $a-b$ 13 $a-b$ 14 $a-b$	$15 \left\{ {a \over b} \right\}$	16 (a-b)	$^{(7)}_{(18)}$ $^{(3-b)}_{(3-6)}$	19	20	21 22
.1				4										

Since 1858, 200 lbs. Sulphate of Potass, 160 lbs. Sulphate of Soda, and 100 lbs. Sulphate of Magnesia; for Crop of 1857-8, and previously, 300 lbs., 200 lbs., and 100 lbs., respectively.

200 lbs. Bone-ash, 150 lbs. Sulphatic acid (Sp. gr. 1-7).

(3) Equal parts Sulphate and Mariate of Commerce.

(4, 2, 5, 5) For 1858, and previously 1½ time as much.

(5) With Hydrochloric instead of Sulpharic Acid.

(7) Average of 12 years' Ammonia-salts for the Crop of 1863.

(12) Plots 18 had the Ammonia-salts for the Crop of 1863. ටවලව