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## **Experiments on Wheat: Broadbalk**

## **Rothamsted Research**

Rothamsted Research (1862) *Experiments on Wheat: Broadbalk ;* Memoranda Of The Plan And Results Of The Rothamsted Field Experiments, June 1862, pp 4 - 4 - **DOI:** https://doi.org/10.23637/ERADOC-1-230

Prot	e, for the growi = (about) = (about)	Average	Average Produce per Acre, per Annum, during the last ten Years, 1852-61.	. Acre, per e last ten 61.
- X	1 lb. (pound, avoir.) = (about) $0.45$ Kilogramme. 1 bushel per acre = (nearly) $0.9$ Heetolitre per Heetare. 1 lb. per acre = 1-12 Kilogramme per Heetare.	Dressed Corn.	Total Corn.	Total Straw.
0 1	Superphosphate of Lime (three times as much as on No. 5 and succeeding Plots)	$\begin{array}{c} \text{bushels.}\\ 17\frac{3}{4}\\ 16\end{array}$	lbs 1106 995	lbs. 1829 1771
c1 co 44	Farm-yard dung (14 tons every year)		$2145 \\ 944 \\ 1051$	3795 1663 1747
$ \begin{array}{c} 5 & (a-b) \\ 6 & (a-b) \\ 7 & (a-b) \\ 8 & (a-b) \end{array} $	Mixed Alkalies (1); and Superphosphate of Lime (3)ditto; and 200 lbs. Anmonia-salts (3)ditto; and 400 lbs. ditto; and 600 lbs. ditto	184 274 3434 36	$1149 \\1697 \\2158 \\2251$	$\begin{array}{c} 1919 \\ 2946 \\ 4076 \\ 4530 \end{array}$
$\begin{array}{c} 9 \left\{ \begin{array}{c} a \\ b \\ b \end{array} \right.$ $10 \left\{ \begin{array}{c} a \\ b \end{array} \right.$	ditto i ditto i and 550 lbs. Nitrate of Soda	314 314 21 21	1967 1509 1318 1586	4075 3080 2516 2984
$11 (a-b) \\ 12 (a-b) \\ 13 (a-b) \\ 14 (a-b) \\ 14 (a-b) \\ 12 \\ 14 (a-b) \\ 14 ($	none: "Superphosphate of Lime "; and 400 lbs.ditto.3664 lbs.(*) Sulphate of Soda: "Superphosphate of Lime "; and 400 lbs.ditto.200 lbs.(*) Sulphate of Potass: ditto; and 400 lbs.280 lbs.(*) Sulphate of Magnesia: ditto; and 400 lbs.	200 200 200 200 200 200 200 200 200 200	$\begin{array}{c} 1757 \\ 2086 \\ 2078 \\ 2094 \end{array}$	3159 3832 3847 3916
$15\left\{ \begin{array}{c} a \\ b \end{array} \right.$	" Mixed Alkalies" ; ditto <sup>(9)</sup> ; and 400 lbs. ditto. ; and 500 lbs. Rape-cake.	6. 332 333	2007 2108	3699 3946
16 $(a-b)$	ditto ; ditto ; and 800 lbs. ditto	37	2322	5044
$(r) \begin{cases} 17 & (a-b) \\ 18 & (a-b) \end{cases}$	"Mixed Alkalies" ; "Superphosphate of Lime"; 400 lbs. ditto	313 (9) 183(10)	1993 (%) 1174 (10)	3718 <sup>(9)</sup> 2001(10)
19	none ; ditto <sup>(8)</sup> ; 300 lbs. "Ammonia-salts" ; and 500 lbs. Rape-cake.	.e. 31	1966	3508
20	Unmanured continuously	154	166	1758
21 90	"Mixed Alkalies" ; "Superphosphate of Lime"; and 100 lbs. Muriate Ammonia.	213	1329	2344

( 4 )

and 100 lbs., respectively.

(1) Since 1858, 200 Ibs. Sulphate of Potass, 100 Ibs. Sulphate of Soda, and 100 Ibs. Sulphate of Magnesia; for Ctop of 1857-8, and previously, 300 Ibs., 200 Ibs., and 100 Ibs., r 2) 200 Ibs. Sulphate acid (by, gr. 1'7). (3) Equal parts Sulphate and Muriate of Commerce. (4.5, 6) For 1858, and previously 13 time as much. (7) The Manures et al. 130 Ibs., Sulpharochoric instead of Sulphuric Acid. (3) Average of 17 and 18 alternated with Amnonia-selfs. (10) Average of 10 years' Amnonia-selfs alternated with Amnonia-selfs.

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