Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readible, or you suspect there are some problems, please let us know and we will correct that.



Yields of the Field Experiments 1875



Full Table of Content

Experiments on Wheat; Broadbalk Field

Rothamsted Research

Rothamsted Research (1876) *Experiments on Wheat; Broadbalk Field;* Yields Of The Field Experiments 1875, pp 4 - 4 - **DOI:** https://doi.org/10.23637/ERADOC-1-239

BROADBALK FIELD.

Experiments on the Growth of WHEAT year after year Land; withour Manues, and with distributions, with Farnyard Manue; 1840, Barley; 1841, Peas; 1842, Wheat; 1845, Oats; the last four Crops Unmanured.

First Experimental Wheat Grop in 1844. Wheat every year since; and, with some exceptions, nearly the same description of Manure on the same Plots each year—especially during the last 23 years (1852 and since). Unless otherwise stated, the Manures are sown in the Autumn before the seed.

(Area under experiment, about 13 acres.)

	(about) 0.40 Hectare or 1.59		P	RODUCE I	PRODUCE PER ACRE.			1		
	= (about) 0.36 Hectolitre or 0.66 or 0.91 aght) = (about) 0.45 Kilogramme or 0.91 aght) = (about) 51.0 Kilogrammes or 1.02	Average per Annum, 20 Years, 1852-1871.	per Ani	1871.	Thirty-	Thirty-first Season, 1874.	n, 1874.			
PLOTS.		Dressed Corn,	Sorn. Weight	Total	Dressed Corn.	Corn. Weight	Total	Fl.otts,		
	Manures, per acre, per annum.	Quantity.	per Bushel,	orraw.	Quantity.		Suraw.		í	
0	Superphosphate of Lime (three times as much as on No. 5 and succeeding Plots)	Bushels.	Ibs. 583	evts,	Bushels, 162	lbs. 59	cwts.	0		
1	s much	-		187	11 12 000	598	00	1		
2	Farmyard Manure (14 tons every year)		. 09	337	394	\$09	395	61		
60	Unmanured continuously		573	13	113	584	83	œ		
4	152, a		583	133	124	583	00 1/12	4		
5 (a and b)	200 lbs. O Sulphate Poiass, 100 lbs. (*) Sulphate Soda, 100 lbs. Sulphate Magnesia, 3½ cotts. Superphosphate of Lime (*)		587	154	13	59	77	5 (a and b)	_	
6 (a and b)	200 lbs. (3) Sulphate Potass, 100 lbs. (2) Sulphate Soda, 100 lbs. Sulphate Maguesia, 3½ owts. Superphos., and 200 lbs. Ammonia-salts (9)	263	593	243	253	598	193	6 (a and b)	_	
7 (a and b)	200 lbs. O Sulphate Potass, 100 lbs. (2) Sulphate Soda, 100 lbs. Sulphate Magnesia, 3½ ovts. Superphos., and 400 lbs. Ammonia-salts	354	594	353	393	593	413	7 (a and b)	_	
8 (a and b)	200 lbs. (9 Sulphate Potass, 100 lbs. (2) Sulphate Soda, 100 lbs. Sulphate Magnesia, 32 cvts. Superphos., and 600 lbs. Ammonia-salts	384	59	413	403	09	541	8 (a and b)	~	
9 {a	200 lbs. (9) Salphate Potass, 100 lbs. (9) Sulphate Soda, 100 lbs. Sulphate Magnesia, 9½ owts. Superphos., and 550 lbs. Nitrate Soda (9). (The Nitrate for both 9a and 9b always sown in the Spring.)	364	583	413 283	384	608 573	193	a b a		
$10 \begin{cases} a \\ b \end{cases}$	fineral Manure in	223 257	571 58	218	254	56 <u>2</u> 57	175 2114	$10 \begin{cases} a \\ b \end{cases}$,
11 $(\alpha \text{ and } b)$:	T	573	263	322	58	277	11 (a and b)	_	
12 (a and b)	400 lbs. Ammonia-salts, 3½ owts. Superphosphate, and 366½ lbs. (®) Sulphate of Soda	337	591	323	393	593	348	12 (4 and b)		
13 $(a \text{ and } b)$	400 lbs. Ammonia-salts, 3½ cwfs. Superphosphate, and 200 lhs. (©) Sulphate of Potass	331	595	337	37	£09	351	13 (a and b)		
14 $(a \text{ and } b)$	400 lbs. Ammonia-salts, 3½ owts. Superphosphate, and 280 lbs. © Sulphate of Magnesia	337	594	323	363	593	321	14 (a and b)	_	
15 $\begin{cases} a \\ b \end{cases}$	200 lbs. © Sulph. Pot., 100 lbs. © Sulph. Sod., 100 lbs. Sulph. Mag., 3½ cotts. Superphos. ©; 400 lbs. Ammsults, sown in Spring © 200 lbs. © Sulph. Pot., 100 lbs. © Sulph. Sod., 100 lbs. Sulph. Mag., 3½ cotts. Superphos. ©; 400 lbs. Ammsults, sown in Spring ©	327 34	598 598	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	273 308	61 1 61	233	$15\binom{a}{b}$		
16 $(a \text{ and } b)$	(1852-64, 13 years, 200 lbs. Sulph. Potass, 100 lbs. Sulph. Soda, 100 lbs. Sulph. Mag., 3½ ovts. Superphos, and 800 lbs., Ammonivastilis, average produce 39½ bush. Cov., 40§ evrs. Straw [1865 and since, unmanured; average produce (9 years, 1865-73) 17½ bushels Corn, 15½ ovts. Straw	32 23 ans	59	361	113	09	104	16 (a and b)	_	
$10.$ $\begin{cases} 17 (a \text{ and } b) \\ 18 (a \text{ and } b) \end{cases}$	400 lbs. Ammonia-salis 200 lbs. Culphate Mognesia, and 3½ cwts. Superphosphate	315 (12) 175 (13)	59½(12) 58½(13)	$31\frac{1}{4}\binom{12}{16}$ $16\frac{1}{8}\binom{13}{18}$	334(14) 14 (15)	604 (14) 584 (15)	311 (14) 94 (15)	17 (a and b) 18 (a and b)	~~	
19	3½ cwts. Superphosphate of Lime (11), 300 lbs. Sulphate of Ammonia, and 500 lbs. Rape-cake	-		291 291	373	59	88	19		
20	Unmanured continuously	154 (10) 5	58 (1e)	141 (16)	134	594	113	20		
21	200 lbs. (9 Sulph, Potass, 100 lbs. (2) Sulph, Soda, 100 lbs. Sulph. Magnesia, 3½ cwts. Superphos., and 100 lbs. Muriate Ammonia	213		193	227	593	147	21		
22	200 lbs. (1) Sulph. Potass, 100 lbs. (2) Sulph. Soda, 100 lbs. Sulph. Magnesia, 34 cwts. Superphos., and 100 lbs. Sulphate Ammonia	21 5	588	19	213	594	133	22		
(1) 300 lbs. (2) 200 lbs. (3) " Superpy Sulphuric and sp. (4) The " An (5) 94 475 lb. (5) 94 475 lb. (6) For 1858	200 lbs. Bone-ash, 150 lbs. monia of Commerce. r since; 96 475 lbs. in 1852, s 400 lbs. "Ammonia-salts."	Manures lis for the mes for as, in 11 are divid	alternate o Crop of the Crop S68, owi ed into	t 1874. of 1874. of 1874. duplicate 6 and 7,	ineral Manures. Ammonia-salts. mistake in can portions, "a" the "a" porti	ures, alts. carting, a, and	the prod	uce could not be	9 9 9	
(7) For 1872 (8) For 1872 (9) For 1872 (10) The Man	For 1872 and previously, 400 lbs. Sulphare Administ, sown in the Autumn. 17 (or 18), received a mixture of soluble Silicates in addition to the other Manures, but, hitherto, without any previously, 400 lbs. Sulphare Ammonia, sown in the Autumn. 180 1872 and previously, 400 lbs. Sulphare Ammonia and 600 lbs. Rape-cake, sown in the Autumn. 191 (or 18), received a mixture of soluble Silicates in addition to the previous essenson has been cut up and applied to the "a" portion of plot 15, Mada with Marieta cut up and applied to the "a" portion of plot 15, Mada with mixture cut up and applied to the "a" portion of plot 15, and since, the straw of the previous season has been cut up and applied to the "a" portion of plot 15, and since, the straw of the previous season has been cut up and applied to the "a" portion of plot 15, and since, the straw of the previous season has been cut up and applied to the "a" portion of plot 15, and since, the straw of the previous season has been cut up and applied to the "a" portion of plot 15, and since, the straw of the previous season has been cut up and applied to the "a" portion of plot 15, and since, the straw of the previous the previous the previous the previous the straw of the previous that the previous that the previous the previous the previous the previous that the previous the previous the previous that the previous the previous that the previous the previous that the previous that the previous that the previous that the previous the previous that the previous that the p	uble Silic 1868, and " portion e previou	ates in a l since, c us of plot s season	addition to nut straw s 5, 6, 7, has been co	the other (that prod 8, 11, 12, ut up and	Manures, uced in th 13, 14, a applied to	but, hith the previous and 17 (or the "a",	erto, without any season) has been 18); also for the portion of plot 15	26.5%	