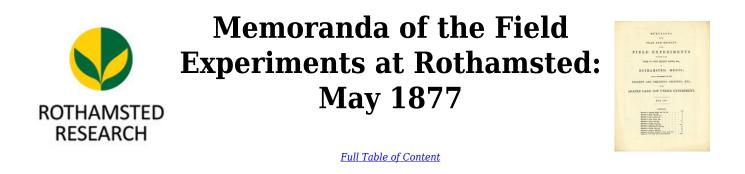
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## **Experiments on Wheat; Broadbalk Field**

## **Rothamsted Research**

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EXPERIMENTS ON THE GROWTH OF WHEAT YEAR AFTER YEAR ON THE SAME LAND; WITHOUT MANURE, AND WITH DIFFERENT KINDS OF MANURE. BROADB

	= (about) 0.40 Hectare or				- 1	Pro	PRODUCE PER	R ACRE.					_	
-	0-36 Hectolitreor 0-45 Kilogrammeor		2		Average	Average per Annum.	ė		÷	_	Thirty-Th 18	Thirty-Third Season, 1876.	Ē	
PLOTS	(about) 0.9 Hectolitre per Hectare			Dressed Corn.	Corn.			Tota	Total Straw	I	Dressed Corn.	ġ	Ē	PLOTS.
	= (about) 1.12 Kilogramme per Hectare or e = (about) 125.5 Kilogrammes per Hectare or		Quantity.		Weigh	Weight per Bushel.	el.	101	· WRITCH	1	W		al	
	Manures, per acre, per annum.	12 Years, 1852-63.	12 Years, 1864-75.	24 Years, 1 1852-75,	12 Years, 12 1852-63, 1	12 Years, 24 1864-75, 18	24 Years, 12 1852-75, 18	12 Years, 12 7 1852-63. 186	12 Years, 24 Y 1864-75. 1852	24 Years, Qua 1862-76.	Quantity. Bus	weigut per Bushel.	.w.	4
	Net 1 11 11 11 11 11 11 11 11 11 11 11 11	Bushels.	Bushels.	Bushels, 17.4	1bs. 57.4	lbs. 594.5	1bs. C	Cwts. C	Cwts. Cwts. 13 143	1	Bushels, 11	1bs. Cwta.	58	
-	Superphosphate of Linne (three times as much as on No. 3 and succeeding rlots)	163	124	143	573	-	-				_	ē -	-	1
	Sulphrates of Foliass, Joura, and magueata (while as interiment as on 100, 0 and addreading 1 west)	-		351	294 -	-	-	_	-			=	-	63
				14	562	_	-	-		-	-			0
	Unmanured for Crop of 1852, and since ; previously Superphosphate (made with Muriatic Acid), and Sulphate Ammonia .	_		15	574	-	-	-	-		-	583 64	T	4
(a and b)	2001bs. (a) Sulphate Potass, 100 lbs. (a) Sulphate Soda, 100 lbs. Sulphate Magnesia, 33 cwts. Superphasphate of Lime (a)	164	134	108 2.53	585 585	601 5 501 5	900-	267 1 267 2	114 148 204 234	-	158 5	621 115		6 (a and b)
6 (a and b) 7 (a and b)	200 lbs. W. Suiphate Fotass, 100 lbs. 39 Suiphate Soda, 100 lbs. Suiphate Mag., 35 w.k. Superploss, 200 lbs. Ammonia-sata 300 lps. (1) Suiphate Potass, 100 lbs. (3) Suiphate Soda, 100 lbs. Suiphate Mag., 34 cwfs. Superplos., 400 lbs. Ammonia-satas	_	-	343	583	_	-	-	-	-	-			7'(a and b)
s (a and b)	200 lbs. (0) Sulphate Potass, 100 lbs. (2) Sulphate Soda, 100 lbs. Sulphate Mag., 34 exts. Superphos, 600 lbs. Amnonia-salts	38	-	374	573	-	-		-	ti	-	62 264		8 (a and b)
9 {a	200 lbs. 40 Sulphate Potass, 100 lbs. (*) Sulphate Soda, 100 lbs. Sulphate Mag., 3 <u>4</u> ewts. Superphos, 550 lbs. Nitrate Soda (*) 550 lbs. Nitrate of Soda (*). ("The Nitrate for both 90 and 99 alwars sown in the Sorinc").	343	391 243	367 253	57 553	597 573 573	584	391 281 2	44 <del>§</del> 42 <del>1</del> 26 <b>1</b> 272	-	333 6 13 5	628 32 564 102	~	$ \frac{\partial}{\partial b} \left\{ \begin{array}{c} \alpha \\ \alpha \end{array} \right\}_{0}^{\alpha} $
10 {a	400 https://www.commercenter.com/commercenter/comm	226	-	212	55 <u>8</u> 57	-		-		:		-		10 8
(0) (11 (a and b)	400 Jbs. Ammonia-saits atout; on 1070; and each feat study (average 1070); anneas atout; 1077; 70; 00 400 Jbs. Ammonia-saits. Så ewts. Superphosoblate	295		273	564		-	-	-	-	-			11 (a and b)
12 (a and b)	and 366½ lbs. (6) Sulphate of Soda	-		33 <u>i</u>	584	-	-	-	-		-		-	12 (a and b)
13 (a and b)	:	2	328	33 <mark>8</mark>	581	-	598 5	358 8	30 <del>§</del> 33 <mark>8</mark>	-	-	624 213	-	13 $(a \text{ and } b)$
14 (a and b)	400 lbs. Ammonia-salts, 3∄ owts. Superphosphate, and 280 lbs. <sup>(6)</sup> Sulphate of Magnesia	11	-	381 -	58 <u>8</u>	-			-	-		-	f	14 (a and b)
$15 \begin{cases} a \\ b \end{pmatrix}$	200 lbs. 0: Sulph. Pot., 100 lbs. @ Sulph. Sod., 100 lbs. Sulph. Mag., 3Å evts. Superphos. (0; 4 400 lbs. Amm-sults, in Spring (8) 200 lbs. (0) Sulph. Pot., 100 lbs. (9) Sulph. Sod., 100 lbs. Sulph. Mag., 3Å evts. Superphos. (07) 4 400 lbs. Amm-sults, in Spring (9)	8) 33 <b>1</b> 9) 342	314 321	32 <b>1</b> 33 <b>1</b>	58 <u>4</u> 585	60 <del>1</del> 5 607 5	59%	337 23 352 3	294 314 304 338	4	242 6 261 6	624 202) 616 228)	-	$15 \begin{pmatrix} a \\ b \end{pmatrix}$
(q pu	[1852-64, 13 years, 200 lbs. Sulph. Potass, 100 lbs. Sulph. Soda, 100 lbs. Sulph. Mag., 33 ewts. Superphos., and 800 lbs. Annonicedits rectage protects 393 bush. Com. 463 every. Starw	381	194	29	57 <u>4</u>	604 5	59	46 1	178 313		11 5	58 <del>3</del> 77	- F	16 (a and b)
(10) { 17 (a and b)	de cwts. Superphosphate	182	147 287	$16\frac{7}{3}(12)$	58 58 <u>5</u>	593 5 604 5	$587_{(1^3)}$	177	127 15 273 30	158 <sup>(12)</sup> 2 30 <sup>2</sup> ( <sup>13</sup> ) 1	264 6 108 5	607 228 588 8	225(14) 8 (15)	17 (a and b) 18 (a and b)
(a num m	'Lime <sup>(11)</sup> , 300 lbs. Sulphate of Ammonia, and 500 lbs. Rape-cake	_		30 <mark>1</mark>	581	t		314 2		_	-	-		19
	Unmanured continuously	-		$13\frac{7}{8}(16)$	57	-	(91	-	Ť	(16)	-	-	_	20
	200 lbs. (J. Sulph. Potass, 100 lbs. <sup>(2)</sup> Sulph. Soda, 100 lbs. Sulph. Mag., 3Å cwts. Superphos., 100 lbs. Muriate Ammonia	-	-	20%	272	-	_	-	-	-	-	79100		21
	200 lbs. (1) Sulph. Potass, 100 lbs. (2) Sulph. Soda, 100 lbs. Sulph. Mag., 32 owts. Superphos., 100 lbs. Sulphate Ammonia	212	86T	201	573	59% 5	583	205 1	16 1	188 1	134 5	57 103		22
D under	<ol> <li>(1) 300 lbs. per annum for Crop of 1855, and previously.</li> <li>(2) "Superplosphare of Line" — in all cases, excepting for Plot 19, made from 200 lbs. Bone-ash, 150 lbs.</li> <li>(3) "Superplosphare of Line" — in all cases, excepting for Plot 19, made from 200 lbs. Bone-ash, 150 lbs.</li> <li>(4) "Superplosphare of Line" — in all cases, excepting for Plot 19, made from 200 lbs. Bone-ash, 150 lbs.</li> <li>(5) "Superplosphare of Line" — in all cases, event parts Suphate and Muriate of Ammonia of Commerce.</li> <li>(5) 80, 475 lbs. Nitrate Sola in 1853, 275 hs. in 1853, and 1854, 550 lbs. each year ince. 550 lbs. Nitrate is restored to onthin the same amount of Nitrogen us 400 lbs. "Ammonia-safts."</li> <li>(6) 80, 475 lbs. Nitrate is restored to onthin, the same amount of Nitrogen us 400 lbs. "Ammonia-safts."</li> <li>(7) For 1823 and previously - 14 time as much.</li> <li>(8) For 1823 and previously - 14 time as much.</li> <li>(9) For 1823 and previously - 13 time as much.</li> <li>(9) For 1823 and previously - 13 time as much.</li> <li>(9) For 1872 and previously - 13 time as much.</li> <li>(9) For 1872 and previously - 13 time as much.</li> <li>(9) For 1872 and previously - 13 time as much.</li> <li>(9) For 1872 and previously - 13 time as much.</li> <li>(9) For 1872 and previously - 13 time as much.</li> <li>(9) For 1872 and previously - 13 time as much.</li> <li>(9) For 1872 and previously - 14 time as much.</li> <li>(9) For 1872 and previously - 14 time as much.</li> <li>(9) For 1872 and previously - 14 time as much.</li> <li>(9) For 1872 and previously - 14 time as much.</li> <li>(9) For 1872 and previously - 14 time as much.</li> <li>(9) For 1872 and previously - 14 time as much.</li> <li>(9) For 1872 and previously - 14 time as much.</li> </ol>	(11) M (12) A (12) A (13) A (14) P (14) P (14) P (14) A (14) A (14) A (14) A (14) A (15) A (17) (07) 18), anterial eff (101) B (101) A (101) A	(1) Made with Muriatic instead of Sulphurio Acid. (2) Averages of Mimeenl Manures, alternated with Mimeenl Manures. (2) Averages of Ammonis-suls, alternated with Mimeenl Manures. (3) Pros 13 had the Mimonis-suls, of the Grop of 1876. (4) Plots 13 had the Mimonis-suls, for the Grop of 1876. (4) Plots 13 had the Mimonis-suls, for the Grop of 1876. (4) Plots 13 had the Mimonis-suls, for the Grop of 1876. (5) Plots 13 had the Mimonis-suls, for the Grop of 1876. (4) Plots 13 had the Mimonis-suls, for the Grop of 1876. (5) Plots 13 had the Mimonis-suls, for the Grop of 1876. (2) Plots 13 had the Mimonis-suls, for the Grop of 1876. (2) Plots 13 had the Mimonis-suls, for the Grop of 1876. (3) Plots 13 had the Mimonis-suls, for the Grop of 1876. (4) Plots marked, "(a and 1)," are divided into duplicate portions, "a "and "5," respectively, which are manuel alliels accepting link, the the ergs of 1864.56 and 7, the "a" portions of 1764.56 and 7, the the ergs of 1864.56 and 7, the ergs of 1864.56 and 17, the ergs of 1864.56 and 7, the ergs of 1864.56 and 17, the ergs of 1864.56	Iuriatic in dineral Mi immonia- the Ammo the Ammo in Ammonia- the Ammo Minera that, i mixture r the crop thes) on the	stead of S anures, alt alts, alter onia-salts 1 d Maruree 11 years b) " are b) " are or the cre of soluble s of 1866	alphuric J arendted with nated with or the Chr i for the Chr i and 23 and 23 and 23 divided in ops of 186 Silicates s, and sin prious of	veid. ith Ammo h Mineral p of 1876 Top of 1876 Trop of 18 years only t-5-6 and in addition plots 5, 6,	mia-salts. Manures. 76. 7 ; as, in 7 ; the " n to the c aw (that ) 7, 8, 11,	1868, owi ns, " a " a " portior ther Manu produced i 12, 13, 1	ng to a n nd 'tô," us of plots ures, but, A, and 17	nistake in respectivel to 5, 6, 7, hitherto, vious seas	carting, t carting, t y, which : 8, 9, 16, a without an on) has be also for t	the	