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Yields of the Field Experiments 1878



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Experiments on Wheat; Broadbalk Field

Rothamsted Research

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FIELD. BROADBALK

Expendixons on the Growth of WHEAT year last, 1842, Wheat; 1842, Oats; the last four Crops Umanured.

First Experimental Wheat Crop 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 27 years (1852 and since). From the commencement of the experiments in 1843-4 up to 1876-7 inclusive, the mineral harmonia-salts, and rape-cafe, &c., if any, were sown in the autumn, before the excepting; in 1845, when, owing to the wet autumn and winter, all the manures were spring-sown; and for the crops of 1873, 4, 5, 6, and 7, the amnonia-salts applied to Plot 15 were top-dressed in the scripting in 1845, when, owing to the wet autumn, and winter and the same ascertained great loss of the nitrogen of the mines by drainings, especially in wet winters, it has been excided to apply only the mineral manures (and Farmyard-manure) in the autumn, and the ammonia-salts, as well as the nitrate, in the spring; excepting on Plot 15, where, for comparison, the ammonia-salts are to be sown in the autumn; and on Plot 19, where the ammonia-salts are mixed in, when the superphosphate is made. This plan is adopted for the present crop, 1877-8.

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one come		
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umn' and		
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	_ (about) 0.40 Hosters					7	PRODUCE PER ACRE	Thus and		1100				
	(about) 0.36 Hectolitre or 0.68 (about) 0.45 Kilogramme or 0.91				Aver	Average per Annum	num.			7.	Thirty-	Thirty-Fourth Season,	ason,	
Droma				Dresse	Dressed Corn.			ď	Total Straw		Dressed Corn.	Corn.		PLOTS.
LOIS.	(about) 1.12 Kilogramme per Hectare or 0.57 Zolly, Pfd.		Quantity.		Wei	Weight per Bushel.	shel.					Weight	Total	
	Anogrammes per accorate or over conduct per 11. Morgan	12 Years, 1852-63.	12 Years, 1864-75.	24 Years, 1862–75.	12 Years, 1852-63.	12 Years, 1864-75.	24 Years, 1852-75.	12 Years, 1852-63.	12 Years, 1864-75.	24 Years, 1852-75.	Quantity.	per Bushel.	Straw.	1
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Busbels,	Bushels.	Bushela,	1bs. 573	1bs.	1bs.	Cwts.	Cwts.	Cwts.	Bushels.	1bs. 59	Cwts. 81	0
ž 2	Superphosphate of Lime (three times as much as on 1No. 5 and succeeding rates)	163		143		591	583	153	103	13	71	593	458	-
ž =	Sulphates of Folass, 30ds, and magnesia (ewice as infoir as on two, o and succeeding a total) ::	353	35	351	594	605	09	345	325	338	241	591	20 ‡	c 1
T.		151	123	14	563	59	573	147	94 844	123	87	585	688	eo -
n L	Unmanured Concurrency	17	13	15	574	593	584	153	103	13	95	574	-4 4	
K (a and k) 90	onnatura to togo o totology in the state of the state of the state of the state of time (9)	181	133	161	577	593	587	167	113	141	118	578	B 2.2	5 (a and b)
_	200 100. Contract of the contr	2883	223	25.3	583	608	593	267	\$0₹	233	148	581	103	6 (a and b)
	200 105. Configurations 1. The configuration of the	363	32	343	583	₹09	\$6 \$	373	318	348	197	59 1	163	7 (a and b)
-		38	37	373	573	₹09	59	421	404	414	243	593	20	8 (a and b)
-	200 lbs. (*) Sulphate Louiss, 100 lbs. (*) Sulphate Solar Sulphate	343	391 244	362	57	592	583	39 28 34 34	448 261	421	403 273 24	57 2 58	348 226 8	$9 \left\{ a \atop b \right\}$
		228	211	217	553	27. 77. 20. 00.	5 7 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	234	182	202 233	174	573 588 588	1143	$10 \left\{ \frac{a}{b} \right\}$
;	rear since (except 1846 and 1850); Mineral Manure 1844, 48,	295	2 C1	27.3	563	581	573	287	223	252	177	593	123	11 (a and b)
-	400 tos. Ammonia-sauts, 53 overs. Dispupipograude	351	311	331	583	598	591	354	28	315	173	09	134	12 (a and b)
13.	400 10s, Ammonia-sturs of Sews. Dupp phosphate, and once have to be considered and sew of the constraint of the constrai	345	324	333	583	603	595	35.5	308	331	184	601	14	13 (a and b)
10 (a nnd b) 10	400 lds. All modular-states at a week Stranswhotschifter and 980 lbs. (6) Shillyington of Marchestia.	35	314	331	55	603	594	358	283	33	181	5000	14	14 (a and b)
-	; 400 lbs. Amm ; 400 lbs. Amm	334	314 321	00 00 00	50 70 80 80 40 80 80	60% 60%	55 50 50 50 40 50 50	337 357	3000	33.00 80.00 80.00 80.00	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	598	254 248	$15 \begin{Bmatrix} a \\ b \end{Bmatrix}$
(q pur	1852-64, 13 years, 200 lbs. Sulph. Potass, 100 lbs. Sulph. Sodn, 100 lbs. Sulph. Mag., 3½ ewts. Superphos., and 800 lbs., Annonissells; a recenge produce 39½ bash. Corn., 46g wrst. Straw. Ammonissells; a recenge produce 30½ bash. Corn., 46g wrst. Straw.	388	193	59	573	£09	59	46	178	317		581	69	16 (a
(10) { 17 (a and b) 40	400 lbs. Anmonis-salts Annonis-salts Annonis-salts Superplosphate	325	287 147	304(12) 167(13)	70 70 80 80 10 80	593	59½(12) 58½(18)	333 177	273 123	303(23) 153(23)		70 70 00 00 Facility	94(4)	
-		315	288	301	581	583	583	313	251	187	193	28	.13	19
S É	of contract continuous contract contrac	155	12	133(16)	57	583	57 2 (16)	153	111	134(49)	113	58g	82	20
200	100 lbs. (2) Sulph, Soda, 100 lbs. Sulph. Mag.,	223	193	204	£12	593	7. 88 84	202	163	185	118	55 88 88	50 N	21
06	900 lbs. (d) Salah, Potass, 100 lbs. (2) Sulph. Soda, 100 lbs. Sulph. Mag., 34 cwts, Superphos., 100 lbs. Sulphate Ammonia	213	193	203	573	598	57 814 814	208	16	183	211	55	15%	7.7

the

^{(2) 200} lbs, per annum for Crop of 1820s, and perviously.

(2) 200 lbs, per annum for Crop of 1820s, and perviously.

(3) The "Amound-sells," in all cases, exopting for Plot 19, made from 200 lbs. Bone-sch, 150 lbs. Sulphuric acid sp. gr. 1.7 (and water).

(4) The "Amound-sells," in all cases, equal parts Sulphate and Murinte of Ammonia of Commerce.

(5) 9th, 475 lbs. Nitrate Soda in 1852, 275 lbs. in 1853, and 1854, 550 lbs. each year since. Ro Sulphate of Potas, Soda, or Magneria, or Superbosphate, in 1822, 1853, or 1854, 9b, 475 lbs. Nitrate in 1853, 550 lbs. each year since. 550 lbs. Nitrate is reckoned to contain the same amount of Nitrogen actions.

(5) For 1853, and perviously, made with Murintio instead of Sulphuric Acid.

(7) For 1872 and previously, made with Murintio instead of Sulphuric Acid.

(8) For 1872 and previously, and with Murintio instead of Sulphuric Acid.

(9) For 1872 and previously, and with Murintio instead of Sulphuric Acid.

(9) For 1872 and previously, and with Murintio instead of Sulphuric Ammonia-sells, sown in the Spiring; for 1878, 400 lbs. Ammonia-sells, sown in the Autumn; for 1878, 450 lbs. Ammonia-sells, sown in the Spiring; for 1878, 400 lbs. Ammonia-sells, sown in the Autumn; for 1878, 450 lbs. Ammonia-sells, sown in the Autumn; for 1878, 450 lbs. Ammonia-sells, sown in the Autumn; for 1878, 400 lbs. Ammonia-sells, sown in the Autumn; for 1878, 400 lbs. Ammonia-sells, sown in the Autumn; for 1878, 400 lbs. Ammonia-sells, sown in the Autumn; for 1878, 400 lbs. Ammonia-sells, sown in the Autumn; for 1878, 400 lbs. Ammonia-sells, sown in the Autumn; for 1878, 400 lbs. Ammonia-sells, sown in the Autumn; for 1878, 400 lbs. Ammonia-sells, sown in the Autumn; for 1878, 400 lbs. Ammonia-sells, sown in the Autumn; for 1878, 400 lbs. Ammonia-sells, sown in the Autumn; for 1878, 400 lbs. Ammonia-sells, sown in the Autumn; for 1878, 400 lbs. Ammonia-sells, sown in the Autumn; for 1878, 400 lbs. Ammonia-sells, sown in the Autumn; for 1878, 400 lbs. Ammonia-sells, sown in the Autumn; fo

pectively, which are 6, 7, 8, 9, 16, and therto, without any us season) has been by 18,; also for the 'portion of plot 15.