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Yields of the Field Experiments 1878



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Experiments on Barley; Hoos Field

Rothamsted Research

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HOOS FIELD.

with Ammonia-salts. after year to the same Plot. Previous Cropping—1847, Swedish Turnips, with Dung and Superphosphate of Lime, the Roots carted off; 1848, Barley; 1849, Clover; 1850, Wheat; 1851, Barley manured First Experimental Barley Crop in 1852. Barley every year since; and, unless stated to the contrary in the Table, or in the foot-notes, the same Manure has been applied year. OF MANURE. EXPERIMENTS ON THE GROWTH OF BARLEY YEAR AFTER YEAR ON THE SAME LAND, WITHOUT MANURE, AND WITH DIFFERENT KINDS (Area under experiment, about 44 acres.)

							(9)						
		PLOTS.			100. 200. 400.	1 2 8 4 4 4 4 4 4 4 4	1 AA. 2 AA. 3 AA. 4 AA.	1 AA8. 2 AAS. 3 AAS. 4 AAS.	1004 2000	2 1 2 N.	5 O. 5 A. M.	1 2}e	$\frac{1}{2}$ 7	
	eason,	Total Straw.			Cwts. 78 9 9 9 9 9 4	157 194 194 243	19 22 18! 23;	19 227 213 30	203 203 234 234 234	163	80 60 00 L44 014 010	72 00	153	9
Риоросв уев Асев.	Twenty-sixth Season, 1877.	Dressed Corn. Weight per Bushel.		weigne per Bushel.	1bs. 524 528 528 534	55 55 55 55 55 55 55 55 55 55 55 55 55 5	55 55 55 55 55 55 55 55 55 55 55 55 55	555 555 55 55 55 55 55 55 55 55 55 55 5	55 55 55 55	538	522 524 524 524 524 534 544 544 544 544 544 544 544 544 54	524 535	5.43 5.53 4.43	way as th
	Twen			Quantity.	Bushela, 174 237 204 232 233	354 44 413 501	371 381 491 492	405 503 463 547	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	381	191 471 194	174	36	the same
		Total Straw.		24 Years, 1852-75.	Cwts. 11 128 118 1188	173 263 20 273	211 291 23 311	::::	257 273 26 283 283	221 251 (11)	11.1 27.2 11.1 (1).1	113	273 (13) 283	excepting the addition of the Silicates, have been, and are, in other respects, manured in the same way as the
				12 Years, 1864-75.	Cwts. 91 101 102	154 244 174 174 264	183 273 20 28	213 275 241 308	22 22 22 23 24 24 25 25 24 24 25 25 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	20g 23	95 25 10 10	0 0 1004	227	espects, I
	Average per Annum.			12 Years, 1852-63.	Cwts. 127 1448 134 157	197 284 223 298 298	237 317 257 345	::::	29 284 31 284	241	133 29 134	134	284	in other r
		1	Weight per Bushel.	24 Years, 1852-75.	1ba. 523 531 531 531	522 523 544 544	5224 52324 5333	::11	532 532 532 532	524 524 (**)	53½}(") 54 53½ (")	524 524	544 (19)	, and are,
		l Corn.		12 Years, 1864-75.	1bs. 553 544 544 544	5334 554 554 554 554 554 554 554 554 554	55 55 55 55 55 55 55	554 558 554 554	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	585	5547 5548 548	53.34 53.34	543	ave been
			We	12 Years, 1852-63.	1bs. 521 524 52	514 514 514 52	51 514 514 514	::::	522 522 523 523 523 523 523 523 523 523	515	522 524 524 524 524 524 524 524 524 524	513 513	544	licates, 1
		Dressed Corn.		24 Years, 1852-75.	Bushels. 187 244 214 214 257	318 463 343 454	8 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	:::::::::::::::::::::::::::::::::::::::	4444 4623 4644 3024	37 (11)	$\frac{213}{433}$ (11) $\frac{433}{197}$ (12)	208	471 (13) 483	n of the Si
			Quantity	12 Years, 1864-75.	Bushels. 154 204 174 174 214	29 44 44 825 84 84	324 474 327 463	373 473 42 488	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	35 53 35 53	185 424 184 184 184	16§	411 50条	e addition
				12 Years, 1852-63.	Bushels. 213 273 248 308	342 473 362 471	397 501 394 505	::::	47 484 44 ¹ 47 ²	383 431	22 45 45 25 25 25 25 25 25 25 25 25 25 25 25 25	24 24 43	484	epting th
1 acre about 0.40 Hectaire or 1:59 Prussin Morgen. 1 bushel about 0.45 Kilogramme or 0.91 Zoliveni Pfind. 1 lb. (pound avoir.) a fabout 510 Kilogramme or 0.91 Zoliveni Pfind. 1 cwt. (hundredweight) (about 510 Kilogramme or 0.91 20 Zoliveni Pfind. 1 lb. per acre a fabout 0.9 Hectolite per Hectare or 0.57 Zoliv. Pfd. per Pp. Morgen. 1 lb. per acre a fabout 1.12 Kilogramme per Hectare or 0.57 Zoliv. Pfd. per Pp. Morgen. 1 cwt. per acre a fabout 125:5 Kilogrammes per Hectare or 0.64 Centace per Pp. Morgen.				Manures, per acre, por annum.	Unmanured continuously 34 ewits. Superphosphate of Lime (1) 2200 lhs. © Sulphate Potass, 100 lbs. © Sulphate Soda, 100 lbs. Sulphate Magnesia 200 lbs. © Sulphate Potass, 100 lbs. © Sulphate Soda, 100 lbs. Sulphate Magnesia, 34 ewits. Superphosphate	200 lbs. Armonia-salts (9) 200 lbs. Armonia-salts, and 3½ cvts. Superplosplate 200 lbs. Armonia-salts, 200 lbs. (8 Sulph. Potass, 100 lbs. (8 Sulph. Soda, 100 lbs. Sulph. Magnesia 200 lbs. Armonia-salts, 200 lbs. (8 Sulph. Potass, 100 lbs. (8 Sulph. Soda, 100 lbs. Sulph. Mag., 3½ cvts. Superphos.	275 lbs. Nitrate Soda 275 lbs. Nitrate Soda, and 3½ corts. Superplosphate 275 lbs. Nitrate Soda, 200 lbs. © Sulph. Potass, 100 lbs. © Sulph. Soda, 100 lbs. Sulph. Magnesia. 275 lbs. Nitrate Soda, 200 lbs. © Sulph. Potass, 100 lbs. © Sulph. Soda, 100 lbs. Sulph. Mag. 33 owts. Superphos.	275 lbs. Nitrate Soda, 400 lbs. Silicate Soda ⁽⁶⁾ 275 lbs. Nitrate Soda, 400 lbs. Silicate Soda, and 3½ cvts Superphosphate ⁽¹⁾ 275 lbs. Nitrate Soda, 400 lbs. Silicate Soda, 200 lbs. ⁽⁶⁾ 275 lbs. Nitrate Soda, 400 lbs. Silicate Soda, 200 lbs. ⁽⁶⁾ 277 lbs. Nitrate Soda, 400 lbs. Silicate Soda, 200 lbs. ⁽⁶⁾ 8ulph. Potass, 100 lbs. ⁽⁶⁾ 8ulph. Soda, 100 lbs. Sulph. Mag. ⁽⁷⁾ and 3½ cvts. Superphosphate	1000 lbs. Rape-cake, and 3½ ewts. Superphosphate 1000 lbs. Rape-cake, 200 lbs. © Sulph. Potass, 100 lbs. © Sulph. Seda, 100 lbs. Sulph. Magnesia 1000 lbs. Rape-cake, 200 lbs. © Sulph. Potass, 100 lbs. © Sulph. Soda, 100 lbs. Sulph. Magnesia	11	200 lbs. (*) Sulphate of Potass, 34 owts. Superphosphate (*) Sulphate of Potass, 34 owts. Superphosphate, and 200 lbs. Anmonie-salts	Unmanured continuously Sales (burnt soil and turf) Sales (Farmyard Manure 14 tons, 20 yrs., 1852-71, av. prod. 48½ bush.; unmanured since, av. prod., 6 yrss., 1872-7, 38½ bush. Farmyard Manure 14 tons, every year; av. produce, 20 years, 1852-71, 48½ bush.; 6 years, 1872-7, 50 bush.	(1) The "Superphosphate of Lime" is, in all cases, made from 200 lbs. Bone-ush, 150 lbs. Sulphuric e
	Prors	***************************************			10. 8 8 0. 4 0.	4 3 2 1 4 A A A	(1 AA. (2 AA. (4 AA. (4 AA.	(5) (1 AAS. (5) (3 AAS. (4 AAS.	6 0.0.0.4 0.0.0.0.0	(8) {1 N.	5 0. M.	$6\binom{1}{2}$	$7\binom{1}{2}$	

e-cake per annum for the first six years, and 1000 lbs. only, each year since.

inte of Potass, and 3½ cwts. Superphosphate of Lime, without Nitrate of Soda, the first

в 5

^{(?) 2000} lbs. Rape-cake per annum for the first six years, and 1000 lbs. only, each (?) 2000 lbs. Sulphute of Poissa, and 3½ evits. Superphosphate of Lime, without N (1852), Nitrate alone each year since.

(B) 550 lbs. Nitrate of Sodi for 1855-4-5-6, and 7; and 275 lbs. only, each year is (h) Ammoni-satis also the first year, but not since.

(A) Averages of 11 years, 12 years, and 123 years.

(B) Averages of 6 years, 12 years, and 18 years.

(B) Averages of 50 years (with dung), 4-years (unmanured), and 24 years.

acid sp. 71.7 (and water).

(b) 300 Hs, per annum for the first six years, 1852–7.

(c) 200 Hs, per annum for the first six years, 1852–7.

(d) 200 Hs, per annum for the first six years, 1852–7.

(e) 210 Hs, per annum for the first six years, 1852–7.

(f) 210 Hs, Ammonia-selts "—in all cases equal parts Subhate and Muriate of Ammonia-selts per annum; next 10 years, 1852–77, the state of Soda, 400 Hs. Mittate of Soda, 400 Hs. Mittate of Soda, so the Soda, annum; next 10 years, 1852–67, 200 Hs. Ammonia-selts per annum; 1868, and since, 270 Hs. Mittate of Soda is redeoned to contain the same amount of Nitrogen as 200 Hs. "Ammonia-selts."

Soda is redeoned to contain the same amount of Nitrogen as 200 Hs. "Ammonia-selts."

Soda and 200 Hs. Silicate of Lime were applied per arce, but in 1868, and since, 400 Hs. Silicate of Lime were applied per arce, but in 1868, and since, 400 Hs. Silicate of Lime were applied per arce, but in 1868, and since, 400 Hs. Silicate of Lime were applied to the solicate of Soda, and the Silicate of Lime were applied to the solicate of Soda, and the Silicate of Lime were applied to the solicate of Lime were applied to