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## Yields of the Field Experiments 1878



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## **Experiments on Permanent Meadow Land; the Park**

## **Rothamsted Research**

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WITH DIFFERENT MANDRES ON PERMANENT MEADOW LAND. EXPERIMENTS

nor is there record of any having been sown since s. Excepting as explained in the Table, and in the

crop was fed-off by sheep ( upon a portion of it, and crops (and third, if any) second o penned u second o The Land has probably been laid down with Grass for some centuries. No fresh seed has been artificially sown within the last 40 years certainly; nor is there record the Grass was first laid down. The experiments commenced in 1856, at which time the character of the herbage appeared uniform over all the Plots. Excepting as explorences, the same description of Manuch has been applied year starts year to the same Plot. The experiments, 1856-1874, the first crop only, each year, was mown, made into huy, removed from the land, and weighed. As a rule, the sum other first 19 years of the object being not to disturb the condition of the manufing. A given number was allotted to each Plot, according to the amount of produce, the area extended, day by day, until the whole was enten down. Frequently, however, the animals sufficied to each Plot, and weighed. As a rule, the the area extended, day by day, until the whole was enten down. Frequently, however, the animals sufficied to each Plot, and in 1866, 1874, the 'the 'the area extended', day by day, until the whole was enten down.

-	= (about) 0.40 Hectare or		Dad	PRODITCE PER ACRE.		WEIGHED AS	B HAY.	•		
	· · · · 01							6		
PLOTS.	= (about) 1016-0 Kilogrammes or 20·33 = (about) 1.12 Kilogramme per Hectare or 0·57 = (about) 125-5 Kilogrammes per Hectare or 0·64	A verage	Average per Annum.		Twenty-first Season, 1876.	son, 1876.		Twenty-second Season, 1877.	Season,	PLOTS.
	(about) 2510.0 Milogrammes per nectare or	10 Vanue 10	_		-	_	First	Second	Total	-
	Manures, per acre, per Annum.	1856-65. 18	1866-75. 1856-75. ( <sup>13</sup> ) ( <sup>13</sup> )	-75. Crop.	op. Crop.	Total.	Crop.	Crop.	TOMPT	
	(1856–63, 8 years, 14 tons Farnyard Manure, and 200 lbs. Ammonia-satts <sup>(1)</sup> ; avenge produce 494 ewts. )	Cwts. 6483	Cwts. Cwts. 372 43	ts. Cwts. 293	53 034	Cwts.	Cwts. 424	Cwta. 20	Cwts. 624	
		415	32 367	204	-ta	:	324	164	484	
	٦ :	223	20 214	124	-44	:	21	174	383	
=	Time (2)	234 337	$21\frac{1}{2}$ $22\frac{1}{2}$ $30\frac{1}{2}$ $32\frac{1}{2}$	$(^{9}) = \frac{16_{4}}{33_{4}}$	Harts	::	27 <del>3</del> 42	184	46 <u>3</u> 553	16 F
	or over our other and the second s	301	-			•	264	20	464	
	(1856-68, 13 years, 400 lbs. Anmonia-salts; average produce 30 <sup>§</sup> owts	313	304 304	32	-	•	$37\frac{3}{4}$	191	574	
2	300 1193. Sulphata Potass, 100 118. (*) Sulphate Soda, 100 108. Sulphate Magnesia, and 34 owts. Superphosphate	337	362 354	343	- 224		453.	24	€0 <b>}</b>	
8 (8)	(1856-61, 6 years, 300 lbs. Sulph. Potass, 200 lbs. Sulph. Soda, 100 lbs. Sulph. Magnesia, and 33 ewts. Superphasphate; average produce 36 cwts. (1863 and since 250 lbs. (8) Sulphate Soda, 100 lbs. Sulphase Marmesia, and 33 ewts. Superphaspia is average produce (14 years, 1862-75) 274 ewts.	33§	264 304	-	544 S44	:	324	153	48	
6.	800 libs. Schlbarke Potassa 100 libs. (8 Sulphate Soda, 100 libs. Sulphate Magnesia, 33 covits. Superplosphate, and 400 libs. Ammonia-salts	53§	484 51	50	-	•	54	22	76	
	[1856-61, 6 yrs, 300 Ibs. Sulph. Potass, 200 Ibs. Sulph. Soda, 100 Ibs. Sulph. Magnesia, 3 <sub>4</sub> owts. Superphos., 400 Ibs. Ammsults: av. prod. 55 <sub>4</sub> owts.) [1863 and since 250 Ibs. 60 Jun. 100 Ibs. Sulph. Magnesia, 3 <sub>4</sub> owts. Superphos., 400 Ibs. Ammsults: av. prod. (14 yrs., 1862–75) 42 <sub>4</sub> owts.)	523	39 <sub>5</sub> 46 <sub>8</sub>	40	-	:	434	25	683	
11{1	(500 lbs. Sulph. Potass, 100 lbs. (9) Sulph. Soda, 100 lbs. Sulph. Magnesia, 34 owts. Superphosph, 800 lbs. (9) Ammonia-salts	61 <del>2</del> 631	538 578 613 624	-	571 6429 0163d	• • •	60 <del>3</del> 76	48} 34}	1094 1104	$\frac{1}{2}$ 11
-		25	-		14 <sup>4</sup>	:	194	253	44 <del>4</del>	
13	00 lbs. (*) Sulph. Soda, 100 lbs. Sulph. Magnesia, 32 owts. Superphosph., 400 lbs. Ammonia-sults, 2000 lbs. Cut Wheat-stra	254	59 <sup>5</sup> / <sub>8</sub> 57 <sup>1</sup> / <sub>2</sub>	-	66‡	:	56	29	85	
14	550 lbs. Nitrate of Soda.®, 300 lbs. Sulphate Potass, 100 lbs. (ø/ Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3½ evta. Superplosphato	53 <sup>1</sup> / <sub>8</sub>	601 57	ê	64 <b>4</b> Cut,	:	56	19	75	
15	1858-75, 18 years, 550 lbs. Nitrute Soda	361	35 353	(01)	30 <del>3</del>	•	333	18	513	
16	275 lbs. Nittutie of Soda, 300 lbs. Sulphate Potass, 100 lbs. <sup>(0)</sup> Sulphate Soda, 100 lbs. Sulphate Magnesia, and 33 owts, Superphosphate	454	47 <del>8</del> 46 <sup>3</sup>		414	:	543	203	75	
17	275 Jba. Nitrate of Soda	344	33 <u>4</u> 333		254	:	331	16	493	
18	Mixture supplying the quantity of Potass, Soda, Lime, Magnesia, Phosphorie soid, Silica, and Nitrogen, contained in 1 ton of Hay (commencing 1865)	21	334 32g	Ĵ	314	:	403	193	60	
19	275 lbs. Nitrate of Soda, 290 lbs. Sulphate of Potase, and 3 <sup>3</sup> g oxts. Superphosphate (commencing 1872)	:	388 )	(12)	-	:	$42\frac{1}{4}$	194	$61_{2}$	_
20	:		363)	) 38	~		46	163	$-62\frac{1}{2}$	_
-	monia of Commerce. me-ash, 150 lbs. Sulphuric	, and since, reckoned to	and since, 400 lbs, Silicate Soda. reckoned to contain the same amount of Nitrogen as 400 lbs.	cate Soda. e same a	mount of 1	Nitrogen a	18 400 lb	s, of		
	Approximation of the state of the second specified, 2000 lbs. Sawdust per actre per annum for the the state of the manuements specified were first applied in 1859 (previously, 1856–77 and 8, Sawdust orly). (a) The manuements and 10, had, baddes the Manures specified, 2000 lbs. Sawdust per actre per annum for the the transmission of the state	and 18 yea	1859 (previ rs, as these e	periment	66-7 and 8, did not cor	Sawdust on mence ut	aly). 1411 1858. 1865.			
		2-75. eth season	(1875) is n	t include	d in these	averages, r	as in all	other		