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## Memoranda of the Field Experiments at Rothamsted: May 1881



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

### **Rothamsted Research**

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# THE PARK

# WITH DIFFERENT MANUEES ON PERMANENT

the Land has probably been laid down with Grass for some centuries. No fresh seed has been artificially sown within the last \*u years \*course." Excepting as explained in 1856, at which time the character of the horbage appeared uniform over all the Plots. Excepting as explained in the Total down. The experiments commenced in 1856, at which time the character of the horbage appeared uniform over all the Plots. Excepting as explained in the same Plot.

During the first 19 years of the keep repeated the first crop only, each year, was movn, made into hay, removed from the land, and weighed. As a rule, the second crop was fed-off by sheep hirty in the condition of the manuring. A given number was allotted to each Plot, according to the amount of produce, penned upon a portion of the manuring. A given number was allotted to each Plot, according to the second crops when the ventical season, 1875, the second crops being unusually heavy, and the weather favourable, they were, for the first time, cut, weighed as hay, are respective Plots. In the wentical season, 1875, the second crops were again made into hay weighed, and removed. In 1879 the second crops were again made into hay weighed, and removed. In 1870 the second crops were again made into hay, weighed, green; the dry matter per acre. In 1877 and the removed and venture in the weighed samples was determined, and the produce reckoned into hay by adding one-fourth to the calculated dry matter per acre. In 1880 the second crops second crops second crops second crops only and for the succeeding 5 years, 1876-1880, first and second crops only and for the succeeding 5 years, 1876-1880, first and second crops (13).

	= (about) 0.45 Kilogramme or		PB	ODUCE P	ER ACRE	PRODUCE PER ACRE, WEIGHED AS HAY.	D AS H	AY.			
PLOTS.	1 con	Averag 20 Vez (First	Average per Annum, 20 Years, 1856-75. (First Crops only.)		Average 5 Years irst and 3	Average per Annum, 5 Years, 1876-80. (First and Second Crops.)		Twenty-fifth Season, 1880,	th Seaso		PLOTS.
		10 Years, 1 1856-65.	10 Years, 20 1866-75, 186	20 Years, Ci 1858-75.	First Sc Crops. Gro	Second Grops (15), Total.		First Second Crop. Crop.		Total.	
-	(1856-68, 8 years, 14 tons Farmyard Manure, and 200 lbs. Ammonia-salts <sup>(1)</sup> ; average produce 49½ cwts. ]	Cwts. 483	Cwts. C	Cwts. C	Cwts. C	Cwts. Cwts 15‡ 47½	1.	Cwts. Cwts.	1	Cwts. 28‡	-
67	(1856-65; 8 years, 14 tons Farnyard Manure; average produce 422; cwts	415	32	362 2	233	123 368	11		73 1	181	63
op .	Unnantued, continuously	223	20 2	214	167	124 294	-	73 (	62 1	144	60
4 2	of ewes. Superplusphasto of Linne, and 400 lbs. Ammonia-salts	231 331	214 224 304 324	ව	203 234 234	14 348 14 473		9 8	9 1 2	18 1 243 2}	4
9	400 Lbs. Ammonia-Salts	303	22 2	264	193	143 844		84	Y	-	10
9 (8)	1250-06, 15 years, 900 10s. Ammonna-sants; average produce 30g owts. [1869-78 300 1bs., 1879 and since, 500 1bs., Sul. Pot., 100 1bs. Sul. Soda, 100 1bs. Sul. Mag., 3g cwts. Superph.; av. prod. (7 yrs., 1869-75) 31g cwts.	313	304 3	30%	34.3	14g 49g		233	63 30		9
7	1856-78 300 lbs., 1879 and since, 500 lbs., Sulphate Potass, 100 lbs. (*) Sulphate Soda, 100 lbs. Sulphate Magnesia, and 34 owts. Superphosphate.	337	363 3	354	358	181 533		223 6	63 29		
8 (8)	(1855-61, 6 years, 300 lbs. Sulph. Potass, 200 lbs. Sulph. Soda, 100 lbs. Sulph. Magnesia, and 3½ owts. Superphosphate; average produce 36 owts.) (1862 and since, 250 lbs. © Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3½ owts. Superphosphate; average produce (14 years, 1862-75) 27½ owts.)	33.8s	264 3	308	253	128 378		162 4	44 21	+	- ∞
6		538	48½ 51		583	20 73g		403 15	552	Na	6
(8) 10	(1856-61, 6 yrs. 300 lbs. Sulph. Potass, 200 lbs. Sulph. Soda, 100 lbs. Sulph. Magnesia, 3∮ owts. Superphos., 400 lbs. Ammsults; av. prod. 55∮ owts. (14 yrs., 1862-75) 42½ owts. (1862 and since, 250 lbs. (0 lbn. Sulph. Soda, 100 lbs. Sulph. Magnesia, 3∮ owts. Superphos., 400 lbs. Ammsalts; av. prod. (14 yrs., 1862-75) 42½ owts.)	523	898 4	463 4	404	20g 60g	-	252 148	5	4	10
$11\binom{1}{2}$	(1856-78 300 lbs., 1879 and since, 500 lbs., Sulph. Potass, 100 lbs. (*) Sulp. Soda, 100 lbs. Sulp. Mag., 3½ cwts. Superphos., 800 lbs. (*) Ammonia-salts (*) Sulph. Sod., 100 lbs. Sul. Sod., 100 lbs.	613 63±	538 612 614	57g 62g 6	623	382 912 322 947	-	80 32 44 2 27 2	62 724	1 2 11	П
12	Unmanured continuously	25	227 24	i	178 1	143 324		95 93		-	18
13	1856-78 300 to a, 1873 and smore, just lost, sul., for, 100 lbs, (w) Stat. Stat., 100 lbs, (w) Stat. Stat. Stat. Stat., 400 lbs, Amsalts, 2000 lbs, Clut Wheat-straw	554		574 5		243 833	\$ 51\$	_	683	4	13
# :	bou lines, Att. or yours, 't south S. Adella Barbay and S. Carlo Bar. Or Sulp. Bods, 100 lbs. Bulp. Mag., and 3½ owts. Superph. (ISRS-75, 18 years, 550 lbs North Sods.)	53	603 57	Ų.	548	15‡ 69g	5 51g	usin Q3	603	+	14
15	(1876-78 300 lbs., 1879 and since, 500 lbs., Sulphate Potass, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3g owts. Superphosphate)	361	35 353	(10)	283	14g 43g	19	94	1 281		15
16	275 lb. Nitrate of Soda, 1858-78 300 lbs, 1879 and since, 500 lbs, Sulp. Potass, 100 lbs. (9 Sulp. Soda, 100 lbs. Bulp. Mag., and 33 cwts. Superph.	454	478 468		44% 1	16 60₹	S71	11	481		16
17	ZIO 108. Nutrite of Soda	344	333 337		291 1	134 423	213	3 14	1		17
9 7	Thruth Supplying use quantity of rotasts, rotal, Magnesna, Phosphorteacid, Silica, and Nitrogen, contained in 1 ton of Hay (commencing 1865)	. 12	33½ 32½	£	345 1	158 504	\$ 20	143	-	_	18
61	2419 INSTANCE OF SOUR AND INSTANCE OF THE STANDARD OF THE STAN	:	388	(12)		164 552	313	15 E	47	-	19
20	32/ IDS. INITIATE OF FORSE, and 3* owrs. Supernosphate (commencing 1872)										

amount of Nitrogen as 400 lbs. the reckoned to contain is Nitrate of Soda "—in all cases equal parts Sulphate and Muriate of Ammonia of Commerce. hate of Lime" is, in all cases, made from 200 lbs. Bone-ash, 150 lbs. Sulphuric

ere first applied in 1859 (previously, 1856–7 and 8, Sawdust only).

years, and 18 years, as these experiments did not commonece until 1855.

years, and 11 years, as the experiment only commoneced in 1865. (9) 550 lbs. N. mmonia-salts."
(9) The manure (10) Averages of (11) Averages of (12) Averages of (13) Averages of (14) Averages of (14) Averages of (15) As the sec

the

had, besides the Manures specified, 2000 lbs. Sawdust per acre per annum for ut without effect.

(6) 500 lbs. in 1862 a not commence until 1 , and since, 400 lbs. S

removed in 1876, those of 1875, which were, are brought in to give the and 1863. (\*) Only 400 lbs. in 1859-60-61. 1862; 9 years (1862-1870), 200 lbs. Silicate Silicate Soda.

Acid Sp. 1