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Memoranda of the Field Experiments at Rothamsted May 1874



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Experiments on Permanent Meadow Land; the Park

Rothamsted Research

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THE PARK.

EXPERIMENTS WITH DIFFERENT MANUES ON PERMANENT MEADOW LAND.

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 of any having been sown since 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 explained in the Table and in the foot-notes, the same description of Manure has been applied year after year to the same Plot.

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	PLOTS.			Т	67	8	$\begin{pmatrix} 1 \\ 2 \end{pmatrix} 4$	13	2 9	7 2	00	6	10	$\frac{1}{2}$ 111	12	13	14	15	16	17	18	19	50	
	Average per Annum;	1856-	Cwts.	443	2888	212	23‡ 3(9)	273	311	353	31	528	4.75	65 <u>4</u>	245	578	573	363	_	348	33 (11)	393	371	
Produce per Acre, weighed as Hay.	- 01			293	187	$12\frac{1}{4}$	13½ 26	162	56	343	183	433	88	463	161	22	514	833g	418	283	268	388	36	
		Season; 1872.		312	254	$14\frac{5}{8}$	152 281	223	254	373	222	503	388	63g 63g	208	625	553	325	40	298	333	40	382	
	16th Season;	1871.	Cwts.	433	333	253	247 384	29§	373	393	30	5888	463	568 6548	263	63	612	388	22	383	37 _g	. :	į	
	Season; 1870.		Cwts.	164	133	55 814	7 8 444	53	164	173	123	293	213	423 491	113	48	56}	153	331	194	14§	:	:	32.
	Season; 1869.		Cwts.	19	551	33	404 453	35%	563	548	463	683	573	754	383	777	768	534	744	543	558	:	:	until 186
or 1:50 Prussian Morgen. or 0:91 Zollveron Prinal. or 20:33 Zollveron Prinal. or 20:33 Conther. or 20:35 Zollv. Pkt, per Pr. Morgen. or 0:54 Zollv. Pkt, Morgen. or 12:82 Centher per Pr. Morgen.		Manures, per acre, per Annum.		(1856-63, 8 years, 14 tons Furmyard Manure, and 200 lbs. Ammonia-salts 0); average produce 49\$ cwts. \\ [1864 and since, 200 lbs. Ammonia-salts alone; average produce (10 years, 1864-73) 40\frac{1}{3} cwts. \\ \t	(1856-63, 8 years, 14 tons Farmyard Manure; average produce 42g owts) [1864 and since, unmanured; average produce (10 years, 1864-73) 35j cwts. }	Unmanired, continuously	34 owts. Superphosphate of Lime (a)	400 lbs. Ammonie-salts	(1856-68, 13 years, 400 lbs. Ammonin-salts; average produce 30½ cwts. [1869 and since, 300 lbs. Sulph. Potuss, 100 lbs. Sulph. Soda, 100 lbs. Sulph. Magnesia, 3½ cwts. Superplos.; av. prod. (5 yrs., 1869-73) 32½ cwts.	300 lbs. Sulphate Potass, 100 lbs. (9) Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3½ cwts. Superphosphate	(1856-61, 6 years, 300 lbs. Sulph. Potass, 200 lbs. Sulph. Soda, 100 lbs. Sulph. Magnesia, and 34 owts. Superphosphate; average produce 36 owts. [1862 and since, 250 lbs. © Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3½ owts. Superphosphate; average produce (12 years, 1862-73) 28½ owts.	300 lbs. Sulphate Potass, 100 lbs. (**) Sulphate Soda, 100 lbs. Sulphate Magnesia, 3½ owts. Superphosphate, and 400 lbs. Amnonia-salts · · · · · ·	[1856-61, 6 yrs. 300 lbs. Sulph. Potass, 200 lbs. Sulph. Soda, 100 lbs. Sulph. Magnesia, 3½ cwts. Superphos., 400 lbs. Ammsalts; av. prod. 55½ cwts.] [1862 and since, 250 lbs. (*) Sulph. Soda, 100 lbs. Sulph. Magnesia, 3½ cwts. Superphos., 400 lbs. Ammsalts; av. prod. (12 yrs., 1862–73) 43½ cwts.]	(300 lbs. Sulph. Potass, 100 lbs. (4) Sulph. Soda, 100 lbs. Sulph. Magnesia, 2½ cwts. Superphosph., 800 lbs. (9) Ammonia-salts	Unmanured continuously	300 1bs. Sulph. Potass, 100 1bs. (*) Sulph. Soda, 100 1bs. Sulph. Magnesia, 3½ owts. Superphosph., 400 lbs. Ammonia-selts, 2000 lbs. Cut Wheat-straw	550 lbs. Nitrate of Soda **0, 300 lbs. Sulphate Potass, 100 lbs. (**) Sulphate Soda, 100 lbs. Sulphate Maguesia, and 3½ cwts. Superphosphate	550 lbs. Nitrate of Soda	275 lbs. Nitrate of Soda, 300 lbs. Sulphate Potass, 100 lbs. 69 Sulphate Soda, 100 lbs. Sulphate Magnesia, and 31 owts, Superphosphate	275 Dis. Nitrate of Soda	Mixture supplying the quantity of Potass, Soda, Lime, Magnesia, Phosphorio acid, Silica, and Nitrogen, contained in I ton of Hay (commencing 1865)	275 lbs. Nitrate of Soda, 290 lbs. Sulphate of Potass, and 3½ owts. Superphosphate (commoncing 1872)	327 lbs. Nitrate of Polass, and 3½ owts. Superphosphate (commencing 1872)	(1) "Ammonia-salts"—in all cases equal parts Sulphate and Muriate of Ammonia of Commerce.
	PLOTS		1	2	03	4	52	9 (8)	7	8 (8)	6	(3) 10	$11\binom{1}{2}$	12	13	14	15	16	17	18	119	20		

^{(1) &}quot;Awmonia-salts"—in all cases equal parts Sulphate and Muriate of Ammonia of Commerce.
(2) The "Superphosphate of Lines" is, in all cases, made from 200 lbs. Bone-sals, 150 lbs. Sulphuric Aoid Sp. gr. 1.7 (and water).
(2) Polts 6, 8, and 10, lmd, besides the Manures specified, 2000 lbs. Sawdust per acre per annum for the first 7 years, 1856–1862, but without effect.
(4) 200 lbs. 1856–1862, but without effect.
(5) 500 lbs. in 1852 and 1863.
(6) Only 400 lbs, in 1852 and 1863.

⁽⁷⁾ The application of Silicates did not commence until 1882.
(8) 550 lbs. Withate of Solds is reckoned to contain the same amount of Nitrogen as 400 lbs. of "Ammoninsals", (9) Average of 15 years only, as the manures specified were first applied in 1859 (previously, 1856—7 and 8, Saveduse only, sur these experiments did not commence until 1858.
(10) Average of 19 years only, as these experiments did not commence until 1858.
(11) Average of 20 years only, as these experiment only commenced in 1865.

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