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## Memoranda of the Plan and Results of the Field Experiments, May 1869



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

### **Rothamsted Research**

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# EXPERIMENTS WITH DIFFERENT MANDRES ON PERMANENT MEADOW LAND.

# THE PARK.

The Land has probably been laid down with Grass for some centuries. No fresh seed has been artificially sown within the last 30 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 horbage 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. (Area under experiment, about 63 acres.)

					(	2 )				
	Produce per Acre, weighed as Hay.	Thirteenth Season; 1868.		Cwts. 413 363 173	1933 2944 24 273 273	38 272 44.44 721 44.44 721 44.44 721	24	554	69 32 514 29	273
		Average per Annum; 13 Years 1856-1868.		Cwts. 473 42 223	$24\frac{2}{38}$ (9) $29\frac{2}{3}$ 30 $\frac{1}{2}$	35 322 5022 50 611 412 412 412 412 413 413 413 413 413 413 413 413 413 413	254	53	$ \begin{array}{c} 56 \\ 37 \\ 47 \\ 35 \end{array} \right\} (10) $	324 (11)
	1 lacre = (about) 0.40 Hectare or 1.59 Prussian Morgen. 1 lb. (pound avoir.) = (about) 0.45 Kilogramme or 0.91 Zollverein Pfund. 1 (hundred weight) = (about) 51.0 Kilogrammes or 1.02 Centuer.	1 tow	Manures, per acre; fourteenth season—1869.	200 lbs. Ammonia-salts © [also, for the first 8 years, 1856–1863, 14 tons Farmyard Manure per acre per annum]		Sulphates of Potass, Soda, and Magnesia (%)	Unmanured, continuously	Sulphates of Potass, Soda, and Magnesia.(4); "Superphosphate of Lime"; 400 lbs. "Ammonia-salts;" and 2000 lbs. Cut Wheat-straw	Sulphates of Potass, Soda, and Magnesia (4); "Superphosphate of Lime"; and 550 lbs. Nitrate of Soda (8)	Mixture supplying the quantity of Potass, Soda, Lime, Magnesia, Phosphoric Acid, Silica, and Nitrogen contained in 1 ton of hay (commencing in 1865)
		Prors.		<b>→</b> 64 m	$4 \begin{cases} a \\ b \end{cases}$	(3) (3) (4) (5) (4) (5) (5) (5) (5) (5) (5) (5) (5) (5) (5	12	65	14 15 16	18
				7 -						

Equal parts Sulphate and Muriate of Ammonia of Commerce.

<sup>200</sup> lbs, Bone-ash, 150 lbs. Sulphure. Acid (Sp. gr. 17).
300 lbs. Sulphure and the design the Manure specified, 2000 lbs. Sawdust per acre per annum for the first 7 years, 1856–1862, but without effect, 1901s 6, 8, and 10, had, besides the Manures specified, 2000 lbs. 1856–1863), and 100 lbs. Sulphate of Magnesia.
300 lbs. Sulphate of Potass, 100 lbs. in 1852 and 1863), and 100 lbs. Sulphate of Magnesia (Sulphate of Potass also, as on Plots 7, &c., 1856–1861).
800 lbs. in 1856–7-8; only 400 lbs, in 1859–66–61; and 800 lbs. since.
550 lbs. Nitrate of Soda is reckoned to contain the same amount of Nitrogen as 400 lbs. of "Ammonia-salts,"
550 lbs. Nitrate of Soda is reckoned to contain the same amount of Nitrogen as 400 lbs. of "Ammonia-salts,"
Average of 10 years only, as these experiments did not commence until 1858.

Average of 11 years only, as these experiments did not commence until 1855.

Average of 4 years only, as the experiment only commenced in 1865.

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