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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 )				
er Acre, s Hay.	Thirteenth Season; 1868.		Cwts. 413 363 172	193 294 274 273 273	88 82 82 82 82 82 82 83 82 83 83 83 83 83 83 83 83 83 83 83 83 83	24	553	69 32 29	273
Produce per Acre, weighed as Hay.	Average per Annum; 13 Years 1856-1868.		Cwts. 473 42 223	$24\frac{2}{4}$ (9) $29\frac{2}{2}$ $30\frac{2}{2}$	35 322 50 50 50 50 50 50 50 50 50 50 50 50 50	254	53	$ \begin{array}{c} 56 \\ 37 \\ 47 \\ 35 \end{array} $	324 (11)
 1 lb. (pound avoir.) = (about) 0.40 Hectare or 1.59 Prussian Morgan. 1 lb. (pound avoir.) = (about) 0.45 Kilogramme or 0.91 Zollverein Pfund.	1 ton	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 (%); ditto Sulphates of Soda and Magnesia (%); ditto Sulphates of Potass, Soda, and Magnesia (%); ditto Sulphates of Soda and Magnesia (%); ditto Sulphates of Soda, and Magnesia (%); ditto Sulphates of Soda, and Magnesia (%); ditto Sulphates of Potass, Soda, and Magnesia (%); ditto	The name of continuously	an	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)
*	PLOTS.		H 67 0	$ \begin{cases} 4 \\ a \\ b \end{cases} $ $ \begin{cases} 5 \\ 6 \end{cases} $ $ \begin{cases} 8 \\ 6 \end{cases} $	(8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9	19		41 15 16	18
			(m)						

Equal parts Sulphate and Muriate of Ammonia of Commerce.

200 lbs. Bone-sah, 150 lbs. Sulphuric Acid (Sp. gr. 1-7).

200 lbs. Bone-sah, 150 lbs. Sulphuric Acid (Sp. gr. 1-7).

200 lbs. Bone-sah, 150 lbs. Sulphuric Acid (Sp. gr. 1-7).

200 lbs. Sulphate of Potass, 100 lbs. Sulphate of Soda (200 lbs. 1856–1863), and 100 lbs. Sulphate of Magnesia.

250 lbs. Sulphate of Potass, 100 lbs. in 1862 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 1859–60–61; and 800 lbs. since.

The application of Silicates aid not commence until 1862.

Average of 10 years only, as the manures specified were first applied in 1859 (previously, 1856–1868 inclusive, Sawdust only).

Average of 11 years only, as these experiments did not commence until 1858.

Average of 11 years only, as these experiments only commenced in 1865.

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