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# Memoranda of the Plan and Results of the Field Experiments, May 1870

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## Experiments on Permanent Meadow Land; the Park

### Rothamsted Research

Rothamsted Research (1871) *Experiments on Permanent Meadow Land; the Park ; Memoranda Of The Plan And Results Of The Field Experiments, May 1870*, pp 2 - 2 - DOI:  
<https://doi.org/10.23637/ERADOC-1-234>

## 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 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.

(Area under experiment, about 6½ acres.)

(N) Equal parts Sulphate and Muriate of Ammonia of Commerce.

200 lbs. Bone-ash, 150 lbs. Sulphuric Acid (Sp. gr. 1.7).

(3) Plots 6, 8, and 10, had, besides the Manures specified, 2000 lbs. Sawdust per acre per annum for the first 7 years, 1856-1862, but without effect.

250 lbs. Sulphate of Soda (500 lbs. in 1862 and 1863), and 100 lbs. Sulphate of Magnesia (Sulphate of Potass also, as on Plots 4, &c., 1860-1861).

800 lbs. in 1856-7-8; only 400 lbs. in 1859-60-61; and 800 lbs. since.

The application of Silicates did not commence until 1862.

**S** 550 lbs. Nitrate of Soda is reckoned to contain the same amount of Nitrogen as 400 lbs. of "Ammonia-salts." Sounding only.

(9) Average of 10 years only, as the manures specified were first applied in 18

<sup>(10)</sup> Average of 11 years only, as these experiments did not commence until 1