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# Memoranda of the Plan and Results of the Rothamsted Field Experiments, June 1862



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## Experiments on Permanent Meadow Land; the Park

### Rothamsted Research

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EXPERIMENTS WITH DIFFERENT MANURES ON PERMANENT MEADOW LAND.  
THE PARK.

The Land has probably been laid down with Grass for some centuries ; and no seed has been artificially sown for the last 25 years at any rate ; nor is there any record of fresh seed having been sown since the time the Grass was first laid down. The experiments commenced in 1856, at which time the character of the herbage appeared to be uniform over all the Plots. With with some few exceptions, the same description of Manure has been applied to the respective Plots each year.

(Area under experiment, about  $6\frac{1}{4}$  acres.)

Plots.	Manures, per acre, for the growing (7th) Grass-crop—1862.		Average Produce per Acre per Annum during 6 Years, 1856-61. (Weighed as Hay.)
	Cwts.	Cwts.	
1	14 tons Farmyard dung ; and 200 lbs. "Ammonia-salts" (d)	"	
2	14 tons Farmyard dung alone	"	
3	Unmanured, continuously	"	
4 (a)	Superphosphate of Lime (2)	0·40 Hectare,	
4 (b)	ditto	0·45 Kilogramme,	
5	400 lbs. "Ammonia-salts" ; and 400 lbs. "Ammonia-salts"	51·0 Kilogrammes,	
6	400 lbs. ditto	1016·0 Kilogrammes,	
7	5 Mixed Alkalies (3) ; and "Superphosphate of Lime"	1·12 Kilogramme per Hectare,	
8	ditto (4)	125·5 Kilogrammes per Hectare,	
9	ditto (4)		
10	ditto (4)		
11	ditto		
11 (a)	ditto		
12	Unmanured, continuously		
13	" Mixed Alkalies"		
14	ditto		
15	none		
16	" Mixed Alkalies"		
17	none		

(d) Equal parts Sulphate and Muriate of commerce.

(e) 300 lbs. Sulphate of Potass, 200 lbs. Sulphate of Soda, and 100 lbs. Sulphate of Magnesia.

(f) In previous years the same as described above (e) ; in the present season, no Sulphate of Potass, but 500 lbs. Sulphate of Soda, and 100 lbs. Sulphate of Magnesia.

(g) Average of 3 years only (1859-60-61) ; Sawdust alone the three previous years (1856-7-8).

(h) 800 lbs. in 1856-7-8, and 400 lbs. only in 1859-60-61.

(i) This is one-half of the former Plot "11," and the application of Silicates only commenced this Season (1862).

(j) 200 lbs. Bone-ash, 150 lbs. Sulphuric Acid (Sp. gr. 1·7).

(k) 550 lbs. Nitrate of Soda

(l) ditto

(m) ditto

(n) ditto

(o) 200 lbs. Cut Wheat-straw.

(p) 51·2

(q) 37

(r) 43·1

(s) 32·8

(t) Average of four years only, as these experiments did not commence until 1858.