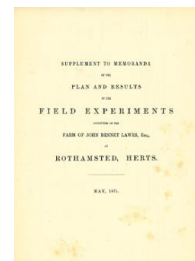


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ROTHAMSTED
RESEARCH

Supplement to Memoranda of the Plans and Results of the the Field Experiments at Rothamsted May 1871



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Experiments on Turnips; Barn Field

Rothamsted Research

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BARN FIELD.

EXPERIMENTS ON SUGAR BEET,

TO BE GROWN YEAR AFTER YEAR ON THE SAME LAND, WITHOUT MANURE, AND WITH DIFFERENT DESCRIPTIONS OF MANURE, COMMENCING 1871.

Previous Cropping :—1843-'48 (6 Seasons), experiments on Norfolk White Turnips, with different descriptions of Manure.

1849-'52 (4 Seasons), experiments on Swede Turnips, with different descriptions of Manure.

1853-'55 (3 Seasons), Barley without Manure (with a view as far as possible to equalise the condition of the Plots).

1856-'70 (15 Seasons), experiments on Swede Turnips, with different descriptions of Manure, in which the arrangement of the Plots was the same, and that of the Manures very similar—in fact, exactly the same during the last 10 years as in the Sugar Beet experiments, excepting that, during that period, the Alkalies were omitted for the Swedes.

FIRST SEASON 1871.

Area under experiment about 8 acres.

The experiments are arranged as under, in 5 Series, each of which comprises 8 Plots.
Manures stated in quantities per acre.

SERIES 1.		SERIES 2.		SERIES 3.		SERIES 4.		SERIES 5.	
Plots.		Plots.		Plots.		Plots.		Plots.	
1	Farmyard Manure (14 tons).	1	Each Plot as in Series 1, and Cross-dressed with 550 lbs. Nitrate Soda.	1	Each Plot as in Series 1, and Cross-dressed with 400 lbs. "Ammonia-salts."	1	Each Plot as in Series 1, and Cross-dressed with 2000 lbs. Rape-cake, and 400 lbs. "Ammonia-salts."	1	Each Plot as in Series 1, and Cross-dressed with 2000 lbs. Rape-cake.
2	Ditto	2		2		2		2	
3	Without Manure (for 30 years).	3		3		3		3	
4	"Superphosphate of Lime"; and Mixed Alkalies (*).	4		4		4		4	
5	"Superphosphate of Lime".	5		5		5		5	
6	Ditto	6		6		6		6	
7	{ and 36½ lbs. Sulphate of Potass. ; ditto ; and 300 lbs. Sulphate of Potass. ; and 36½ lbs. Ammonia-salts (*).	7		7		7		7	
8	{ Without Manure 1853 and since ; previously part Unmanured, and part Superphosphate.	8		8		8		8	

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

(2) 300 lbs. Sulphate of Potass, 200 lbs. Sulphate Soda, and 100 lbs. Sulphate Magnesia.

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

EXPLANATION, FOR CONVERSION INTO FOREIGN WEIGHTS AND MEASURES.	
1 acre	 = (about) 0.40 Hectare or 1.59 Prussian Morgen.
1 lb. (pound avoird.)	 = (about) 0.45 Kilogramme or 0.91 Zollverein Pfund.
1 cwt. (hundredweight)	 = (about) 51.0 Kilogrammes or 1.02 Centner.
1 ton	 = (about) 1016.0 Kilogrammes or 20.33 Centner.
1 lb. per acre	 = (about) 1.12 Kilogrammes per Hectare or 0.57 Zollv. Pfd. per Pr. Morgen.
1 cwt. per acre	 = (about) 125.5 Kilogrammes per Hectare or 0.64 Centner per Pr. Morgen.
1 ton per acre	 = (about) 2510.0 Kilogrammes per Hectare or 12.82 Centner per Pr. Morgen.