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## Memoranda of the Field Experiments at Rothamsted, May 1873



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## **Experiments on Sugar Beet; Barn Field**

## **Rothamsted Research**

Rothamsted Research (1874) Experiments on Sugar Beet; Barn Field; Memoranda Of The Field Experiments At Rothamsted, May 1873, pp 8 - 8 - DOI: https://doi.org/10.23637/ERADOC-1-237

## BARN FIELD.

EXPERIMENTS ON SUGAR BEET,

To be grown year after year on the same Land, without Manuer, and with different descriptions of Manue.

Previous Cropping:—1843-252 (4 Seasons), experiments on Norfolk White Turnips, with different descriptions of Manue.

1849-252 (4 Seasons), experiments on Swede Turnips, with different descriptions of Manue.

1849-252 (5 Seasons), Earley without Manuer (with a view as far as possible to equalise the condition of the Plots).

1853-255 (3 Seasons), experiments on Swede Turnips, with different descriptions of Manue, in which the arrangement of the Plots was 1856-770 (15 Seasons), experiments on Swede Turnips, with different descriptions of Manue, in which the arrangement of the Plots was except the same, and that of the Manues very similar—in fact, exactly the same during the last 10 years as in the first year of Sugar Beet excepting that, during those 10 years, the Alkalies were omitted for the Swedes. For the second and subsequent years of Sugar Beet excepting that.

Area under experiment about 8 acres. The experiments are arranged as under, in 5 Series, each of which comprises 8 Plots. slight alterations in the Manures were made, as will be seen below.

		Manures, per Acre, per Annum.	er Acre, pe	er Annum.								
PLOTS.	acre     a (about)   0.40 Hectare   or   1.59     1 lb. (pound avoir.)   a (about)   0.45 Kilogramme   or   0.91     1 cvt. (hundredweight)   a (about)   510 Kilogrammes   or   1.02     1 ton   a (about)   1016 0 Kilogrammes   or   0.83     1 lb. per acre   a (about)   1.12 Kilogrammes per Hecture   0.65     1 cvt. per acre   a (about)   125.5 Kilogrammes per Hecture   0.65     1 ton per acre   a (about)   2510 0 Kilogrammes per Hecture   0.65     1 ton per acre   a (about)   2510 0 Kilogrammes per Hecture   0.65     1 ton per acre   a (about)   2510 0 Kilogrammes per Hecture   0.65     1 ton per acre   a (about)   2510 0 Kilogrammes per Hecture   0.65     1 ton per acre   a (about)   2510 0 Kilogrammes per Hecture   0.65     1 ton per acre   a (about)   2510 0 Kilogrammes per Hecture   0.65     1 ton per acre   a (about)   2510 0 Kilogrammes per Hecture   0.65     1 ton per acre   a (about)   2510 0 Kilogrammes per Hecture   0.65     1 ton per acre   a (about)   2510 0 Kilogrammes per Hecture   0.65     1 ton per acre   a (about)   2510 0 Kilogrammes per Hecture   0.65     1 ton per acre   a (about)   2510 0 Kilogrammes per Hecture   0.65     1 ton per acre   a (about)   2510 0 Kilogrammes per Hecture   0.65     1 ton per acre   a (about)   2510 0 Kilogrammes per Hecture   0.65     1 ton per acre   a (about)   2510 0 Kilogrammes per Hecture   0.65     1 ton per acre   a (about)   2510 0 Kilogrammes per Hecture   0.65	Prussian Morgen. Calherein Pfund. Centner. Centner. Centner. Centner per Pr. Morgen. Centner per Pr. Morgen. Centner per Pr. Morgen.	orgen. en.	SERIES 2. Each Plot as Series 1, and Cross-dressed with S50 lbs, Nitrate Soda.		Series 3.  Each Plot as Series 1,  Cross-dressed with  400 lbs. "Ammonia-salts."	s 3. d d ressed h monia-salts."	Series 4. Each Plot as Series 1, and Cross-dressed with 2000 lbs. Rape-cake, and 400 lbs. "Ammonia-salts."	is 4. s Series 1, d ressed th Appe-cake, dmonia-salts."	SERIES 5. Each Plot as Series 1, and Cross-dressed with 2000 lbs, Rape-cake.	5. Series 1, essed ippe-cake.	
	Series 1.		n:									
		FIRST SEASON, 1871.	ON, 1871.								-	(
	5			PRODUCE I	PER ACRE (	Roots trimmed	as for feeding	PRODUCE PER ACRE (Roots trimmed as for feeding, not as for Sugar making)	gar making).			8
		Roots.	Leaves.	Roots.	Leaves.	Roots.	Leaves.	Roots.	Leaves.	Roots.	Leaves.	)
∺ <i>ಚಜ</i> 4 ಸಾಹಿ⊱ಯ	Farmyard Manure (14 tons) Farmyard Manure (14 tons), and 33 owts. Superphosphate of Lime ('). Without Manure (60 tours) Without Manure (60 tours)  100 lbs. Sulphate Magnesia 32 owts. Superphosphate and 300 lbs. Sulphate Potass, 200 lbs. Sulphate Soda, and 33 owts. Superphosphate and 300 lbs. Sulph. Potass 33 owts. Superphosphate, and 300 lbs. Sulph. Potass and 363 lbs. Ammonia-salis (*) Without Manure 1853 and since; previously part Unmanured, and part Superphosphate	Tons, cwts. 7 11 7 11 7 11 5 18 5 18 7 10 7 10	Tous cwts. 3 5 12 2 14 2 0 1 1 5 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tons. cwts. 27 13 27 13 22 16 22 3 22 15 20 19 20 19 21 13	Tons. coxts. 5 15 15 15 12 13 14 8 8 18 8 18 8 18 8 16	Tons, cvets, 22 1 22 1 15 15 15 15 15 16 17 10 17 18 8 16 2	Tons. cwts. 5 6 6 4 6 4 16 3 5 5 8 4 4 4 15 4 15 4 15 8 4 15 8 4 15 8 19 8 19 8 19 8 15 8 15 8 15 8 15 8	Tons. cwts. 26 4 2 2 19 18 22 15 19 18 22 11 21 0 17 19 18	Tons. cwts. 6 14 6 7 7 7 12 6 11 5 0. 7 11 7 11	Tons. cwts. 7 28 18 28 18 25 16 25 16 21 7 18 19 21 7 20 7	Tons. cwts. 5 14 4 12 4 12 4 15 14 5 19 4 5 11 4 9 9 9	l.
	3	SECOND SEASON, 1872.	ASON, 1872	2		7						,4
				PRODUCE 1	PER ACRE (	Roots trimmed	as for feeding	PRODUCE PER ACRE (Roots trimmed as for feeding, not as for Sugar making).	gar making).			

1	Leaves.	6 1 1 3 11 1 1 1 1 2 1 2 1 2 1 2 1 2 1 2	-	
	Roots. I.e	Tons. cwts. Tons. 22 5 5 6 5 22 15 16 3 17 18 3 15 17 18 15 10 15		
manug).	Leaves.	Tons. cwts. T 9 11 9 14 10 1 1 7 13 10 4 9 9 9 9 9 9 10 9 10 9 10		
ot as for ougai	Roots.	26, 88 20, 88 20, 88 20, 88 20, 88 22 16 22 16 22 39 19 12		
s for feeding, n	Leaves.	Tons. covts. 7 16 4 13 7 4 13 8 19 8 19 4 1 1		
PRODUCE PER ACRE (Roots trimmed as for feeding, not as for bugar making).	Roots.	Tons. cwils. 22 14 22 0 12 0 15 10 14 5 14 7 11 7 13 10		
ER ACRE (RO	Leaves.	Tons. cwts. 7 19 7 19 7 19 6 6 6 6 6 6 4 6 4 6 1 1 6 1 1 6 1 9 5 1 9 6 1 1 6 1	or 1872.	
PRODUCE P	Roots.	Tons. cwts. 23 9 24 6 21 7 20 2 1 19 6 16 16 15 6 15 6	xactly as fc	
	Leaves.	Tons. cwts. 2 4 2 2 4 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	ures, &c., e	
-	Roots.	Tons. cwts. 18 13 16 0 0 7 17 17 6 14 6 15 6 15 5 15 15 15 15 15 15 15 15 15 15 15 1	873; Man	
		Farmyard Manure (14 tons)  Farmyard Manure (14 tons) and 34 cwts. Superphosphate of Lime (†)  Without Manure (for 30 years)  Without Manure (for 30 years)  (34 cwts. Superphosphate, 500 lbs. Sulphate Magnesia  35 cwts. Superphosphate, and 500 lbs. Sulph. Potass  35 cwts. Superphosphate, and 500 lbs. Sulph. Potass  35 cwts. Superphosphate, and 500 lbs. Sulph. Potass  36 wts. Superphosphate, and 500 lbs. Sulph. Potass  37 cwts. Superphosphate, and 500 lbs. Sulph. Potass  38 cwts. Superphosphate, and 500 lbs. Sulph. Potass  Without Manure 1853 and since: previously part Unmanured, and part Superphosphate	THIRD SEASON, 1873; Manures, &c., exactly as for 1872.	

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