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Memoranda of the Field Experiments at Rothamsted: May 1877



Full Table of Content

Experiments on Mangold-wurzel; Barn-field

Rothamsted Research

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(12)

EXPERIMENTS ON MANGOLD WURZEL.—BARN FIELD (after SUGAR-BEET); commencing 1876.

The arrangement of the Plots is precisely the same as previously for Sugar-beet, excepting that Plot 9, which was unmanured for Sugar-beet, and also previously for Swedes, is now added as a manured Plot. With this exception, the manures are also substantially the same as previously for Sugar-beet; in fact, precisely the same as for the Sugar-beet in 1872 and 1873. Seed, Yellow Globe; dibbled on ridges, rows 26 inches apart; plants 11 inches apart in the rows (3). Area under experiment about 8 acres. Roots all carted off. Leaves weighed, spread on the respective Plots, and ploughed in.

		MANURE	S PER ACR	PER ANN	ом.			6				
PLOTS.	Series 1.	- V u			SERIES 2. As Series 1, and Cross-dressed with 550 lbs. Nitrate Soda.		SERIES 3. As Series 1, and Cross-dressed with 400 lbs. "Ammonia- salts."		As Series 1, and Cross-dressed with 2000 lbs. Rape-cake and 400 lbs. "Am- monia-salts."		SERIES 5. As Series 1, and Cross-dressed wit 2000 lbs, Rape-cake.	
		First	SEASON,	1876.						(4)		
		Produce per Acre,										
		Roots.	Leaves.	Roots.	Leaves.	Roots.	Leaves.	Roots.	Leaves.	Roots.	Leaves.	
1 2 3 4 5 6 7 8 9	Farmyard Manure (14 tons) Farmyard Manure (14 tons), and 3½ cwts. Superphosphate (¹) Without Manure (1846, and since) (5½ cwts. Superphosphate, 500 lbs. Sulphate Potass, 200 lbs. Chloride) Sodium (common salt), 200 lbs. Sulphate Magnesia) 3½ cwts. Superphosphate 2½ cwts. Superphosphate, 500 lbs. Sulphate Potass 3½ cwts. Superphosphate, 500 lbs. Sulphate Potass 3½ cwts. Superphosphate, 500 lbs. Sulphate Potass 5½ cwts. Superphosphate, 500 lbs. Sulphate Potass, 36½ lbs. Amsalts (²) Ummanured, 1853, and since; previously part Umman, part Superphos. Farmyard Manure (14 tons), 3½ cwts. Superphosphate (²)	Tons. cwts, 19 12 19 13 6 10 8 8 7 10 6 16 8 13 5 9	Tons. cwts. 4 9 4 6 1 14 1 15 1 14 1 12 2 3 1 10	Tons. cwts. 25 2 27 13 20 13 25 1 21 0 21 2 22 11 15 16	Tons, cwts. 7 5 7 3 5 12 6 0 5 14 5 8 5 14 5 3	Tons. cwts, 29 19 29 8 14 3 19 19 13 10 17 15 19 2 11 17 25 14	Tons. cwts. 7 12 7 10 4 10 4 9 5 1 4 13 5 11 4 16 7 6	Tons, cwts. 31 9 30 18 19 19 30 8 17 2 26 8 27 2 18 2	Tons. cwts. 10 5 9 16 7 7 8 13 7 14 9 0 9 9 7 11	Tons, cwts. 24 9 29 19 17 4 25 8 17 17 20 10 20 12 15 12	Tons. cw 5 19 6 12 4 15 5 10 5 17 5 4 5 15 4 18	
		SECOND	SEASON,	1877.							10	
1 2 3 4 5 6 7 8	Farmyard Manure (14 tons)	Tons. cwts.	Tons. cwts.	Tons, cwts.	Tons, cwts.	Tons. cwts.	Tons, cwts.	Tons. cwts.	Tons. cwts.	Tons. cwts.	Tons, cwi	
		THIRD	SEASON,	878.								
1 2 3 4 5 6 7 8 9	Farmyard Manure (14 tons) Farmyard Manure (14 tons), and 3½ cwts. Superphosphate (¹) Without Manure (1846, and since) (3½ cwts. Superphosphate, 500 lbs. Sulphate Potass, 200 lbs. Chloride) Sodium (common salt), 200 lbs. Sulphate Magnesia 3½ cwts. Superphosphate, 500 lbs. Sulphate Potass 3½ cwts. Superphosphate, 500 lbs. Sulphate Potass 3½ cwts. Superphosphate, 500 lbs. Sulphate Potass, 36½ lbs. Amsalts (*) Ummanured, 1853, and since; previously part Umman., part Superphos. Farmyard Manure (14 tons), 3½ cwts. Superphosphate (*)	Tons, cwts.	Tons. cwts.	Tons, cwts.	Tons. cwts.	Tons. cwts.	Tons. cwts.	Tons. cwts.	Tons. cwts.	Tons, cwts.	Tons. cw	
	1 2 3 1 1 1 1 1 1 1 1 1	Fourt	H SEASON,	1879.					1	2		
1 2 3 4 5 6 7 8	Farmyard Manure (14 tons) Farmyard Manure (14 tons), and 3½ cwts. Superphosphate (¹) Without Manure (1846, and since) (3½ cwts. Superphosphate, 500 lbs. Sulphate Potass, 200 lbs. Chloride) Sodium (common salt), 200 lbs. Sulphate Magnesia 3½ cwts. Superphosphate. 3½ cwts. Superphosphate. 3½ cwts. Superphosphate, 500 lbs. Sulphate Potass. 3½ cwts. Superphosphate, 500 lbs. Sulphate Potass. 3½ cwts. Superphos, 500 lbs. Sulphate Potass, 36½ lbs. Amsalts (*) Umnanured, 1853, and since; previously part Umman, part Superphos. Farmyard Manure (14 tons), 3½ cwts. Superphosphate (*)	Tons. ewts.	Tons. cwts.	Tons, cwts.	Tons. cwts.	Tons, cwts.	Tons, ewts.	Tons. cwts.	Tons. cwts.	Tons, cwts.	Tons. cw	
		Fifth	SEASON,	1880.				1				
1 2 3 4 5 6 7 8 9	Farmyard Manure (14 tons) Farmyard Manure (14 tons), and 3½ cwis. Superphosphate (¹) Without Manure (1846, and since) (3½ cwis. Superphosphate, 500 lbs. Sulphate Potass, 200 lbs. Chloride) Sodium (common salt), 200 lbs. Sulphate Magnesia 3½ cwis. Superphosphate, 500 lbs. Sulphate Potass 3½ cwis. Superphosphate, 500 lbs. Sulphate Potass 3½ cwis. Superphosphate, 500 lbs. Sulphate Potass, 36½ lbs. Amsalts (²) Unmanured, 1853, and since; previously part Unman, part Superphosphate (³) Farmyard Manure (14 tons), 3½ cwis. Superphosphate (³)	Tons. cwts.	Tons. cwts.	Tons, cwts.	Tons. cwts.	Tons. cwts.	Tons, cwts.	Tons. cwts.	Tons. cwts.	Tons, cwts	. Tons. cw	

^{(2) &}quot;Ammonia-salts"—in each case equal parts Sulphate and Muriate of Ammonia of Commerce.
(3) Plot 9 sown on the flat instead of on ridges; plants ridged up afterwards; rows 22 inches apart, plants 10 inches apart in the rows.