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Memoranda of the Field Experiments at Rothamsted, May 1872



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Experiments on Sugar Beet; 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 Manuer, and with different descriptions of Manuer, 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.

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, 1853-'55 (3 Seasons), Barley without Manure (with a view as far as possible to equalise the condition of the Plots). excepting that, during that period, the Alkalies were omitted for the Swedes.

Area under experiment about 8 acres.

The experiments are arranged as under, in 5 Series, each of which comprises 8 Plots.

1 acre (about) 1 lb. (pound avoir.) = (about) 1 ton = (about) 1 ton = (about) 1 ton = (about) 1 ton per acre = (about) 2 ton per acre = (about) 2 ton per acre = (about) 3 ton per acre = (about) 4 ton per acre = (about) 5 ton per acre = (about) 5 ton per acre = (about) 5 ton per acre = (about) 6 ton per acre = (about) 7 ton per acre = (about) 8 ton per acre	capenty over,	0.40 Hectare or 1.59 Prussian Morgen. 51.0 Kilogrammes mess or 20.33 Centrar. 1.12 Kilogrammes per Hectare or 0.57 Zollv. Přil. per Pr. Morgen. 1.12 Kilogrammes per Hectare or 0.64 Centrer per Pr. Morgen. 2510.0 Kilogrammes per Hectare or 12.82 Centrer per Pr. Morgen. 550 lbs. Nitrate Soda. 60.46 Hectare or 12.82 Centrer per Pr. Morgen. 550 lbs. Nitrate Soda. 60.46 Hectare or 12.82 Centrer per Pr. Morgen. 550 lbs. Nitrate Soda. 60.45 Kilogrammes per Hectare or 12.82 Centrer per Pr. Morgen. 60.46 Kilogrammes per Hectare or 12.82 Centrer per Pr. Morgen. 60.40 Hectare or 20.91 Zollv. Přilogrammes per Hectare or 12.82 Centrer per Pr. Morgen. 60.40 Hectare or 20.91 Zollv. Přilogrammes per Hectare or 12.82 Centrer per Pr. Morgen. 60.40 Hectare	Series 1.	PRODUCE FER ACRE (Roots trimmed as for feeding, not as for Sugar making); FIRST SEASON, 1871.	Roots, Leaves, Roots, Leaves, Roots, Leaves, Roots, Leaves, Roots, Leaves.	Parmyard Manure (14 tons) Tons, cwts. Tons, cwts.
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(1) "Superphosphate of Lime"—in all cases made from 200 lbs. Bone-ash, 150 lbs. Sulphuric Acid sp. gr. 1-7 (and water).
(2) In the first season, 1871. 3½ cwts. Superphosphate, 300 lbs. Sulphate Potass, 200 lbs. Sulphate Soda, and 100 lbs. Sulphate Magnesia.
(3) "Ammonia-salts"—in each case equal parts Sulphate and Muriate of Ammonia of Commerce.