

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



Memoranda of the Field Experiments at Rothamsted May 1874

[Full Table of Content](#)



Experiments on Sugar Beet; Barn Field

Rothamsted Research

Rothamsted Research (1875) *Experiments on Sugar Beet; Barn Field ; Memoranda Of The Field Experiments At Rothamsted May 1874*, pp 8 - 8 - DOI: <https://doi.org/10.23637/ERADOC-1-238>

EXPERIMENTS ON SUGAR BEET—BARN FIELD.

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).
the same, and that of the Manures 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 slight alterations in the Manures were made, as will be seen below.

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

PLOTS.	PRODUCE PER ACRE (Roots trimmed as for feeding, not as for Sugar-making).																							
	SERIES 1.				SERIES 2.				SERIES 3.				SERIES 4.				SERIES 5.							
	Each Plot as Series 1, and Cross-dressed with 550 lbs. Nitrate Soda,		Each Plot as Series 1, and Cross-dressed with 400 lbs. " Ammonia-salts,"		Each Plot as Series 1, and Cross-dressed with 200 lbs. Rape-cake,		Each Plot as Series 1, and Cross-dressed with 400 lbs. " Ammonia-salts,"		Each Plot as Series 1, and Cross-dressed with 200 lbs. Rape-cake,		Each Plot as Series 1, and Cross-dressed with 400 lbs. " Ammonia-salts,"		Each Plot as Series 1, and Cross-dressed with 200 lbs. Rape-cake,		Each Plot as Series 1, and Cross-dressed with 400 lbs. " Ammonia-salts,"		Each Plot as Series 1, and Cross-dressed with 200 lbs. Rape-cake,							
FIRST SEASON, 1871.																								
Manures, per Acre, per Annum.																								
(8)																								
SECOND SEASON, 1872.																								
THIRD SEASON, 1873.																								
FOURTH SEASON, 1874.																								

For the Crop of 1874 Superphosphate of Lime, Sulphate of Potass, Chloride of Sodium, and Sulphate of Magnesia, applied as in 1872 and 1873; but no farmyard manure, or cross-dressings of Nitrate of Soda, Ammonia-salts, or Rape-cake.

(¹) "Superphosphate of Lime"—in all cases made from 200 lbs. Bone-ash, 150 lbs. Sulphuric Acid sp. gr. 1.7 (and water), (²) "Ammonia-salts"—in each case equal parts Sulphate and Muriate of Ammonia, of Commerce.