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Report 1915-17 With the Supplement to the Guide to the Experimental Plots Containing the Yields per Acre Etc.



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Papers and Book Summarising Recent Progress in Agricultural Investigations

Rothamsted Research

Rothamsted Research (1917) *Papers and Book Summarising Recent Progress in Agricultural Investigations* ; Report 1915-17 With The Supplement To The Guide To The Experimental Plots Containing The Yields Per Acre Etc., pp 48 - 48 - DOI: <https://doi.org/10.23637/ERADOC-1-108>

- XLV. "*The Use of Charcoal as a Medium for Plant Growth.*"
A. APPELYARD. *Journal of the Royal Horticultural Society*, 1915. 40, 473-5.

A considerable number of experiments are on record in Horticultural Journals, which seem to show that charcoal has considerable value in increasing soil fertility. A summary of the evidence is given with a view to further work on the subject.

PAPERS SUMMARISING RECENT PROGRESS IN
AGRICULTURAL INVESTIGATIONS.

- I. "*The Principles of Crop Production.*" E. J. RUSSELL. *Transactions of the Chemical Society*, 1915. 107, 1838-1858.
- II. "*Artificial Fertilisers, their Present use and Future Prospects.*" E. J. RUSSELL. *Journal of the Society of Chemical Industry*. 1917. 36, 250-261.
- III. "*The Masters' Lectures : Recent Investigations on the Production of Plant Food in the Soil.*" E. J. RUSSELL. *Journal of the Royal Horticultural Society*, 1916. 41, 173-199.
- IV. "*The Recent Work at Rothamsted on the Partial Sterilisation of Soil.*" E. J. RUSSELL. *Bulletin of the International Institute of Agriculture, Rome*. 1917. 8, 1-11.
- V. "*The Making of Soil.*" E. J. RUSSELL. *Transactions of the Highland and Agricultural Society of Scotland*, 1916. 28, 1-32

A description of the processes involved in the making of the soil as they are at present understood. So far as the mineral particles are concerned, the processes are largely beyond control, but the organic constituents can be altered more readily, especially by green manuring and clover and grass leys of varying duration. The micro-organic population which brings about the necessary changes in the organic matter is hardly yet under control, though a beginning has been made ; attempts are also in progress to deal with the various insects, etc., which play an important part in agriculture.

BOOKS PUBLISHED.

The following books and new editions have been published during the past two years :—

- I. "*Manuring for Higher Crop Production.*" E. J. RUSSELL. Cambridge University Press.
1st edition, 1916. 2nd edition, revised and enlarged, 1917.
- II. "*Soil Conditions and Plant Growth.*" E. J. RUSSELL. Longman, Green & Co.
3rd edition, revised and enlarged, 1917.
- III. "*Soils and Manures.*" E. J. RUSSELL. Cambridge University Press.
2nd edition (in the press).
- IV. "*The Book of the Rothamsted Experiments.*" A. D. HALL.
2nd edition, revised by E. J. Russell, 1917. John Murray.