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Report 1918-20 With the Supplement to the Guide to the Experimental Plots Containing the Yields per Acre Etc.



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General Agricultural Problems Lvi-lxi

Rothamsted Research

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The method of procedure is to analyse the soil population by examination of the plant or of the soil and so to determine what organism or organisms it is desired to suppress. An investigation is then made of the effect of a typical poison (*e.g.*, carbolic acid) on the organism; derivatives are systematically prepared, and the more toxic are followed up. In this way it has been possible greatly to intensify some of the soil sterilisers previously suggested for horticultural use; *e.g.*, carbolic acid becomes three to five times more effective by chlorination.

(Note.—This work is carried out by the W. B. Randall assistant, and full details for nurserymen are published in the Reports of the Nursery and Market Garden Experiment Station, Cheshunt, Herts.)

GENERAL AGRICULTURAL PROBLEMS.

- LVI. E. J. RUSSELL. "*British Crop Production.*" Royal Institution Discourses, Feb. 20th, 1920: Nature, 1920. Vol. CV. pp. 176 and 206.
- LVII. E. J. RUSSELL. "*The Possibility of Increased Crop Production.*" (Life and its Maintenance: Blackie & Son).
- LVIII. E. J. RUSSELL. "*Problems for Research after the War.*" Conference on the improvement of Agriculture. Trans. High. Society, 1918. Series 5. Vol. XXX. pp. 207-214.
- LIX. E. J. RUSSELL. "*Regional Factors in Agricultural.*" Geographical Teacher, 1920. No. 56.
- LX. E. J. RUSSELL. "*How the Soil was Made.*" Proc. Armstrong College of Agriculture, Students' Assoc., 1917-18. Vol. III. pp. 27-30.
- LXI. E. J. RUSSELL. "*Work of the Rothamsted Experimental Station.*" Journal of the Ministry of Agriculture, 1919. Vol. XXVI. pp. 497-507.

BOOKS.

ROTHAMSTED MONOGRAPHS ON AGRICULTURAL SCIENCE.

E. J. RUSSELL. "*Soil Conditions and Plant Growth.*" 4th Edn. (entirely re-cast). Longmans, Green & Co., 1921.

Note.—A French translation by M. Georges Matisse is published in the Bibliothèque de culture générale (Flammarion, Paris). A German translation by Dr. Hans Brehm is published by Steinkopff (Berlin and Dresden). A translation into Finnish is being arranged.

Others in preparation dealing with :—

Soil Physics. B. A. KEEN.

Soil Protozoa D. W. CUTLER and L. M. CRUMP.

Soil Bacteria. H. G. THORNTON.

Soil Fungi and Algæ. W. B. BRIERLEY, S. T. JEWSON and B. M. BRISTOL.