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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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Partial Sterilisation Lv

Rothamsted Research

Rothamsted Research (1921) *Partial Sterilisation Lv* ; Report 1918-20 With The Supplement To The Guide To The Experimental Plots Containing The Yields Per Acre Etc., pp 58 - 58 - DOI:

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The new facts brought out by this investigation have several economic applications, some of which have already proved successful under prolonged practical tests. The more important are :—

- 1.—The production of an artificial farmyard manure.
- 2.—The recovery of soluble nitrogen from sewage.
- 3.—The prevention of waste in the usual process of manure making when the beasts are heavily fed with cake.

L. E. J. RUSSELL. "*The Utilisation of Basic Slag.*"
Trans. Faraday Society, 1920. Vol. XVI. pp. 263-271.

A discussion of the present position of the basic slag problem (see p. 16).

SOILS.

LI. E. J. RUSSELL. "*Soil Making.*" Journal of the Royal Horticultural Society, 1919. Vol. XLIV. pp. 1-12.

A summary of the process concerned in soil making, with special reference to the means whereby, and the extent to which, the productiveness of devastated areas could be restored.

LII. E. J. RUSSELL. "*The Tractor at Rothamsted.*"
Modern Farming, 1920. Vol. IV. No. 6, October.

An account of eighteen months' experience on the Rothamsted farm (see p. 10).

LIII. and LIV. E. J. RUSSELL. "*The Reclamation of Waste Land.*" Journal of the Royal Agricultural Society, 1919. Vol. LXXX. pp. 133-144.

"*The Improvement of Peaty Soils.*" I.—"*The True Peats.*" Journal of the Ministry of Agriculture, 1921. Vol. XXVII. pp. 1104-1113. II.—"*The Silty and Sandy Peats.*" Journal of the Ministry of Agriculture, 1921. Vol. XXVIII. pp. 32-35.

During the past ten years the author has made many examinations of waste soils with a view of devising methods of improvement. The analytical and agricultural results are set out here, and the causes of success and failure are discussed.

The waste lands of the Eastern half of England are mainly light sands or gravels, or thin chalk soils, suffering from defective water supply; while in the Western half they are commonly peats or stony clays, suffering from excess of water, lack of lime, and in case of high districts, from low temperature. To some extent remedial measures are possible.

LV. E. J. RUSSELL. "*The Partial Sterilisation of Soils.*"
Journal of the Royal Horticultural Society, 1920.
Vol. XLV. pp. 237-256.

It has already been shown that steam and certain poisons are effective in ridding the soil of some of its insect and fungoid pests besides enhancing its fertility.

A more systematic investigation of the problem has now become possible through the recognition that poisons are, more or less, specific in their effects and may be less harmful to some organisms than to others.