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Crops, Soils and Fertilisers

Rothamsted Research

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found of anomalous flow close to the tube-wall, which has hitherto been found only with suspensions. This phenomenon was unexpected and no explanation can be given at present.

Mixtures of glycerine and water behave normally, showing that the anomalies observed with lithium chloride solutions are not due to defects in experimental methods.

- LXIV. HUGH NICOL. "*Ueber ein ungewöhnliches Beispiel regionaler Sedimentation.*" *Kolloid-Zeitschrift*, 1932, Vol. LVIII, pp. 302-305.

A suspension of cellulose is described, which shews two kinds of regional sedimentation (producing visible layers in the liquid). One of these kinds is discussed at length, and a theory of the mode of its formation and persistence is put forward. It is supposed that the formation of the layers of cellulose is not due to temperature gradients in the liquid, but to small differences of specific gravity of the particles induced by a general cooling of the suspension.

- LXV. R. H. STOUGHTON. "*An Improved Method of Maintaining Constant Humidity in Closed Chambers.*" *Journal of Scientific Instruments*, 1931, Vol. VIII, pp. 164-166.

An account of a device used for controlling the humidity within plant chambers. The apparatus depends for its action on the controlled vapourisation of water from wet muslin, the humidified air being carried into the chamber by a rapid air stream.

- LXVI. E. J. RUSSELL. "*The Feeding of Britain.*" *School Nature Study*, 1931, Vol. XXVI, pp. 29-33.

- LXVII. E. J. RUSSELL. "*Can Farming be Made to Pay?*" *Country Life*, 1931, Vol. LXX, pp. 63-64.

- LXVIII. E. J. RUSSELL. "*Agricultural Development of the Empire.*" *Science Progress*, 1931, Vol. XXV, pp. 87-108.

- LXIX. E. J. RUSSELL. "*Science and Crop Production, 1930.*" *National Farmers' Union Year Book*, 1931, p. 89.

- LXX. E. J. RUSSELL. "*Communism on the Land in New Russia.*" Faber and Faber, 1931.

- LXXI. H. G. MILLER. "*Problems of Sheep Farming.*" *Journal of the Farmers' Club*, 1931, pp. 106-117.

- LXXII. W. B. BRIERLEY. "*The Training of Botanists for Economic and Industrial Positions.*" *British Association, Report of the Centenary Meeting*, 1931, p. 134.

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- LXXIII. E. J. RUSSELL. "*Soils and Fertilisers.*" *Agricultural Research in 1930*. Royal Agricultural Society of England, 1931, pp. 138-178.

- LXXIV. E. J. RUSSELL. "*Lower Live-Stock Costs with Fertilisers.*" *Farmer and Stockbreeder*, 1931, Vol. XLV, p. 281.

- LXXV. E. J. RUSSELL. "*The Principles of Manuring.*" Encyclopaedia of Scientific Agriculture, pp. 694-706. Baillière, Tindall and Cox, London, 1931.
- LXXVI. H. G. THORNTON. "*The Cultivation and Inoculation of Lucerne.*" Journal of the Farmers' Club, 1931, pp. 19-34.
- LXXVII. H. G. THORNTON. "*Lucerne 'Inoculation' and the Factors Affecting its Success.*" Imperial Bureau of Soil Science, Technical Communication No. 20, 1931.
- LXXVIII. F. E. DAY AND H. LLOYD HIND. "*The Fermentation Industries.*" Annual Report of the Society of Chemical Industry, 1930, Vol. XV, pp. 511-551.
- LXXIX. L. R. BISHOP. "*Swedish Brewing Science.*" Journal of the Institute of Brewing, 1931, Vol. XXXVII, pp. 115-118.
- LXXX. R. K. SCHOFIELD. "*The Golden Hoof.*" The Field, 1931. January 31st.
- LXXXI. H. V. GARNER. "*Microplots—Fertiliser Trials in Co-operation with Schools.*" School Science Review, 1931, No. XLVIII, pp. 371-376.
- LXXXII. E. M. CROWTHER. "*Soils and Fertilisers.*" Reports of the Progress of Applied Chemistry, 1930, Vol. XV, pp. 449-489.
- LXXXIII. H. L. RICHARDSON. "*Nitrification.*" Encyclopaedia of Scientific Agriculture, p. 838. Baillière, Tindall and Cox, London, 1931.

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- LXXXIV. W. B. BRIERLEY. "*Science of the Year 1930. The Biological Sciences.*" Annual Register 1931, Vol. CLXXII, pp. 153-159.
- LXXXV. H. F. BARNES. "*Description of 'Amblardiella tamaricum' Kieffer.*" Bulletin de la Société d'Histoire Naturelle d'Afrique Nord, 1931, pp. 271-272.
- LXXXVI. H. F. BARNES. "*A New Predaceous Gall Midge (Dipt., Cecidomyiidae).*" Bulletin of Entomological Research 1931, Vol. XXII, pp. 205-207.
- LXXXVII. H. F. BARNES. "*Notes on the Outbreak of the Cabbage Aphid 'Brevicoryne brassicae' Linn.*" Journal of the South-Eastern Agricultural College, 1931, pp. 178-180.
- LXXXVIII. H. F. BARNES. "*Notes on the Parasites of the Cabbage Aphid 'Brevicoryne brassicae' Linn.*" Entomologists' Monthly Magazine, 1931, Vol. LXVII, pp. 55-57.
- LXXXIX. H. C. F. NEWTON. "*Notes on Some Parasites Reared from Flea Beetles of the Genus 'Phyllotreta' (Chrysomelidae).*" Entomologists' Monthly Magazine, 1931, Vol. LXVII, pp. 82-84.