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Summaries of Papers Published in 1930 II. Technical and Other Papers

Rothamsted Research

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cytoplasmic stream. They enlarge, aggregate and fuse until ultimately a single large mass, the X-body, is formed accompanied by a crystalline spike but by no other abnormal inclusions. In old leaves the X-body tends to crystallise out.

LXXI. J. HENDERSON SMITH. "*Intracellular Inclusions in Mosaic of 'Solanum Nodiflorum.'*" *Annals of Applied Biology*, 1930. Vol. XVII, pp. 213-222.

The inclusions formed after inoculation with aucuba mosaic are described in detail and illustrated. They correspond to the vacuolate amoeboid bodies produced in other hosts by other viruses, are protein in nature, and tend to crystallise. Their mode of formation by aggregation of small particles has been followed throughout in individual living cells, and accounts satisfactorily for the appearances which have led other observers to believe that they are parasitic organisms, a view for which no support has been obtained in this work.

TECHNICAL AND OTHER PAPERS

GENERAL

LXXII. E. J. RUSSELL. "*Agricultural Science and Arable Farming.*" National Farmers' Union Year Book, 1930, pp.

LXXIII. E. J. RUSSELL. "*Agricultural Research Institutes and Agricultural Colleges. The Rothamsted Experimental Station.*" Superphosphate, 1930, pp. 149-157.

LXXIV. E. J. RUSSELL. "*Winter Keep for Dairy Stock.*" Year Book of the Central Council of Milk Recording Societies, 1930.

LXXV. E. J. RUSSELL. "*Agricultural Developments in South Africa.*" *Geography*, 1930. Vol. XV, pp. 445-451.

LXXVI. E. J. RUSSELL. "*Palestinian Agriculture and its Possibilities.*" *The Monthly Pioneer*, May, 1930, pp. 5-6.

LXXVII. B. A. KEEN. "*New Steps in School Broadcasting.*" *The Listener*, 1930. Vol. IV, p. 452.

CROPS, SOILS AND FERTILISERS

LXXVIII. E. J. RUSSELL. "*Manuring and Cultivation of Sugar Beet.*" Report of Third Conference held at Harper Adams Agricultural College, March 13th, 1930, pp. 4-9.

LXXIX. E. J. RUSSELL. "*Soils and Fertilisers.*" *Agricultural Research in 1929*, pp. 120-152. (Royal Agricultural Society of England, 1930.)

LXXX. E. J. RUSSELL. "*The Influence of Fertilisers on the field and Composition of Plants.*" British Association, Report of Bristol Meeting, 1930, pp. 418-419.

LXXXI. W. E. BRENCHLEY. "*Mineral Elements in Plant Nutrition.*" British Association, Report of Bristol Meeting, 1930, pp. 401-402.

- LXXXII. W. E. BRENCHELY. "Influence of Fertilisers on the Yield and Composition of Meadow Hay." British Association, Report of Bristol Meeting, 1930, pp. 420-421.
- LXXXIII. W. E. BRENCHELY. "The Varying Effect of Lime on Grassland with Different Schemes of Manuring." Journal of the Ministry of Agriculture, 1930. Vol. XXXVII, pp. 663-673.
- LXXXIV. E. M. CROWTHER. "Influence of Fertilisers on the Yield and Composition of Potatoes." British Association, Report of Bristol Meeting, 1930, p. 420.
- LXXXV. E. M. CROWTHER. "Soils and Fertilisers." Annual Report of the Society of Chemical Industry, 1929. Vol. XIV, pp. 511-559.
- LXXXVI. H. V. GARNER AND J. WISHART. "Fertiliser Trials in 1929." Journal of the Ministry of Agriculture, 1930. Vol. XXXVII, pp. 793-802.
- LXXXVII. H. LLOYD HIND AND F. E. DAY. "The Fermentation Industries." Annual Report of the Society of Chemical Industry, 1929. Vol. XIV, pp. 582-618.
- LXXXVIII. B. A. KEEN. "The March of Power. Lower Cultivation Costs." The Field, 1930, p. 138.
- LXXXIX. B. A. KEEN. "Our Cultivation Implements and their Uses." The Young Farmer, 1930. Vol. II, April.
- XC. L. L. LEE. "Soil Surveys and their Utilization." Journal of the Ministry of Agriculture, 1930. Vol. XXXVII, pp. 653-663.
- XCI. G. W. SCOTT BLAIR. "The Rheology of Soil Pastes." Journal of Rheology, 1930. Vol. I, pp. 127-138.

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- XCII. H. F. BARNES. "Control of the Meadow Foxtail Midges." Journal of the Ministry of Agricultural, 1930. Vol. XXXVII, pp. 694-697.
- XCIII. W. B. BRIERLEY. "Science of the Year—1929. The Biological Sciences." The Annual Register. Vol. CLXXI, pp. 56-61.
- XCIV. W. B. BRIERLEY. "'Botrytis Cinerea' and the Species Problem." Fifth International Botanical Congress, Cambridge, 1930, Abstracts of Communications, p. 234.
- XCV. A. D. IMMS. "Remarks on the Biological Control of Noxious Weeds." Proceedings of the Fourth International Entomological Conference, Ithaca 1929. Vol. II, pp. 107-1.
- XCVI. A. D. IMMS. "Fighting Insects by Aeroplane." The Listener, October, 1930, pp. 518-519.

- XCVII. J. HENDERSON SMITH. "*Virus Diseases in Plants. I. Translocation within the Plant. II. The Amoeboid Intracellular Inclusions.*" *Biological Reviews*, 1930. Vol. V, pp. 159-169.
- XCVIII. J. HENDERSON SMITH. "*Virus Diseases of Plants.*" *A System of Bacteriology*, 1930. Vol. VII, pp. 42-53.
- XCIX. J. HENDERSON SMITH. "*The Differentiation and Classification of Plant Viruses.*" Fifth International Botanical Congress, Cambridge, 1930, Abstracts of Communications, pp. 224-225.
- C. R. H. STOUGHTON. "*Angular Leaf-Spot Disease of Cotton.*" *Nature*, 1930. Vol. CXXV, pp. 350-351.
- CI. R. H. STOUGHTON. "*The Morphology and Cytology of 'Bacterium Malvacearum' E.F.S.*" Fifth International Botanical Congress, Cambridge, 1930, Abstracts of Communications, pp. 16-17.
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- B. A. KEEN. "*The Physical Properties of the Soil.*" 1930, 380 pages (with illustrations and diagrams.) Longmans, Green & Co., 39 Paternoster Row, London, E.C.4. 21s.