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## Crops, Soils and Fertilisers

### Rothamsted Research

Rothamsted Research (1938) *Crops, Soils and Fertilisers* ; Report For 1937, pp 106 - 107 - DOI: <https://doi.org/10.23637/ERADOC-1-69>

CROPS, SOILS AND FERTILISERS

- LXXV. F. M. L. SHEFFIELD. "*Stade Initial du Développement de la Fibre de Coton.*" *Coton et Culture Cotonnière*, 1937, Vol. XI, pp. 1-19.

A cytological examination, with illustrations, is given of the development of the fibre from primordial cells in the epidermis from the date of the opening of the flower. Emphasis is laid on the variability from cell to cell in a single seed, and from seed to seed within a single cell.

- LXXVI. F. YATES and W. G. COCHRAN. "*Sampling Observations on Wheat.*" *Journal of the Ministry of Agriculture*, 1937, Vol. XLIII, pp. 1128-1129; Vol. XLIV, pp. 314-316, 701-706.

- LXXVII. W. E. BRENCHLEY. "*Some Deficiency Diseases of Crop Plants.*" *Journal of the Ministry of Agriculture*, 1937, Vol. XLIV., pp. 116-122.

- LXXVIII. W. E. BRENCHLEY. "*Boron and the Control of Plant Disease.*" *Nature*, 1937, Vol. CXXXIX, pp. 536-537.

- LXXIX. W. E. BRENCHLEY. "*Pasture Problems.*" *Nature*, 1937, Vol. CXL., pp. 918-919.

- LXXX. HUGH NICOL. "*Synthetic Substances that Regulate Growth in Plants.*" *Manufacturing Chemist*, 1937, Vol. VIII. *Part I: "Synthesis,"* pp. 175-180. *Part II: "Some Effects and Modes of Application,"* pp. 211-216. *Part III, "Uptake from Soil: Natural Sources, Nomenclature,"* pp. 254-257.

- LXXXI. H. L. RICHARDSON. "*The Examination of Soils by Screened Ultra-Violet Light.*" *Soil Research*, 1937, Vol. V, pp. 308-310.

In all soils, except those heavily impregnated with salts, the soil-material as a whole was non-fluorescent. Small rootlets and other fragments of structural organic matter fluoresced brightly. The salts in saline soils fluoresced sufficiently to make them more readily visible by ultra-violet than by ordinary light.

- LXXXII. B. A. KEEN. "*New Views on Drainage.*" *The Farmer and Stock-Breeder*, 1938, Vol. LII, p. 740.

- LXXXIII. B. A. KEEN. "*The Circulation of Water in the Soil between the Surface and the Level of Underground Water.*" *Sixième Assemblée Générale à Edinbourg de l'Association Internationale d'Hydrologie Scientifique*, 1936, Bull. 22, pp. 37-48.

- LXXXIV. B. A. KEEN and E. W. RUSSELL. "*Are Cultivation Standards Wastefully High?*" *Journal of the Royal Agricultural Society of England*, 1937, Vol. XCVIII, pp. 53-60.

- LXXXV. E. W. RUSSELL. "*The Physical Basis of Soil Structure.*" *Science Progress*, 1938, Vol. XXXII, pp. 660-676.

- LXXXVI. B. A. KEEN. "*Why Soil needs Lime.*" *The Farmer and Stock-Breeder*, 1938, Vol. LII, p. 471.

- LXXXVII. H. V. GARNER. "*The Effect of Manures on the Size of Main Crop Potatoes.*" *Empire Journal of Experimental Agriculture*, 1937, Vol. V, pp. 327-341.

- LXXXVIII. H. V. GARNER. "*Fertiliser Trials at Schools—Further Experience with Microplots.*" *School Science Review*, 1937, Vol. XIX, pp. 258-265.

- LXXXIX. H. V. GARNER. "*Composts.*" *Journal of the Ministry of Agriculture*, 1937, Vol. XLIV, pp. 330-334.

- XC. H. V. GARNER. "*The Distribution of Fertilisers.*" The Third Oxford Farming Conference, 1938, pp. 64-69.
- XCI. E. M. CROWTHER. "*Soils and Fertilisers.*" Reports on the Progress of Applied Chemistry, 1937, Vol. XXII, pp. 573-603.
- XCII. E. J. RUSSELL. "*Soils and Fertilisers.*" The Farmer's Guide to Agricultural Research in 1936. Royal Agricultural Society of England, 1937, pp. 197-244.

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- XCIII. F. C. BAWDEN. "*Plant Viruses.*" Biology, 1937, Vol. III, pp. 349-355.
- XCIV. S. D. GARRETT. "*The Soil-borne Fungus Diseases of Field and Plantation Crops: A Review of Existing Control Methods.*" Empire Journal of Experimental Agriculture, 1937, Vol. V, pp. 189-196.
- XCV. G. SAMUEL. "*Whiteheads or Take-all in Wheat.*" Journal of the Ministry of Agriculture, 1937, Vol. XLIV, pp. 231-241.
- XCVI. C. B. WILLIAMS. "*The Work of the Entomological Department at Rothamsted, 1918-1936.*" Rothamsted Annual Report for 1936, pp. 99-120.
- XCVII. H. F. BARNES. "*Check List of the Cecidomyidae of Oceania.*" Occasional Papers of the Bernice Pauahi Bishop Museum, 1937, Vol. XIII, p. 62.
- XCVIII. H. F. BARNES. "*Check List of the Cecidomyidae of New Zealand.*" Transactions of the Royal Society of New Zealand, 1937, Vol. LXVII, pp. 115-121.
- XCIX. H. F. BARNES. "*Insects and Other Pests Injurious to the Production of Seed in Herbage and Forage Crops.*" Imperial Agricultural Bureaux Herbage Publications Series, 1937, Bull. 20.
- C. K. D. BAWEJA. "*The Calculation of Soil Population Figures.*" Journal of Animal Ecology, 1937, Vol. VI, pp. 366-367.
- CI. H. L. A. TARR. "*Brood Diseases of the Bee. I. Distribution of the Various Diseases of the Brood in Different Countries.*" *Tabulae Biologicae*, 1937, Vol. XIV, pp. 150-185.
- CII. H. L. A. TARR. "*Certain Factors Influencing the Germination of the Endospores of Bacillus Larvae.*" *The Bee World*, 1937, Vol. XVIII, pp. 57-58.
- CIII. H. L. A. TARR. "*Brood Diseases of Bees Investigations.*" *The Bee World*, 1937, Vol. XVIII, pp. 110-112.
- An abridged report on the brood disease investigation for the year ending September 30th, 1937.
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