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Report for 1935

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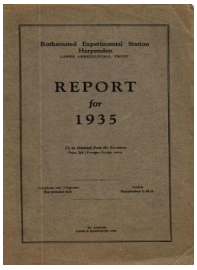

Biological

Rothamsted Research

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BIOLOGICAL.

LXXXVI. A. G. NORMAN. "*The Biological Decomposition of Lignin.*" Science Progress, 1936, pp. 442-456.

The decomposability of lignin is one of the most controversial subjects in microbiology because the experimental evidence is so contradictory. It has, however, been shown that owing to the difficulties attached to the accurate determination of lignin, the problem is really one of biochemistry. The evidence on decomposition has been collected and re-examined in the light of the analytical methods used and their known deficiencies. In this way inconsistencies can be explained and the conclusion drawn that lignin *in situ* is slowly decomposed under aerobic and anaerobic conditions. Isolated lignin, however, appears to be unavailable.

LXXXVII. A. G. NORMAN. "*Fungi for Food.*" Food Manufacture, 1935, Vol. X. pp. 130-132.

LXXXVIII. E. BARTON-WRIGHT, D. WARD CUTLER and L. M. CRUMP. "*Contamination in Petri Dish Boxes.*" Nature, 1936, Vol. CXXXVII, p. 110,

LXXXIX. C. B. WILLIAMS. "*Immigration of Insects into the British Isles.*" Nature. 1935, Vol. CXXXV, pp. 9-10.

XC. C. B. WILLIAMS. "*Immigration of Butterflies in Britain.*" Discovery. 1935, Vol. XVI, pp. 36-39.

XCI. C. B. WILLIAMS. "*A Mass Flight of the Cabbage White Fly.*" Entomologist. 1935, Vol. LXVIII, pp. 218-219.

XCII. H. F. BARNES. "*Some new Coccid-eating Gall Midges* (Cecidomyidae)." Bulletin of Entomological Research, 1935, Vol. XXVI, pp. 525-530.

The following species are described for the first time —*Dentifibula lacciferi* whose larvae are predaceous on *Laccifer javanus* in Malaya; *Coccodiplosis citri* predaceous on *Pseudococcus citri* in Pretoria; *Schizobremia coffeae* from mealy bugs on coffee in Uganda and Tanganyika Territory; and *Schizobremia jujubae* from *Pseudococcus* on *Zizyphus jujuba* in Mauritius.

XCIII. H. F. BARNES. "*Recent Advances in Entomology.*" Science Progress, 1935, Vol. XXIX, pp. 510-517.

XCIV. H. F. BARNES. "*Recent Advances in Entomology.*" Science Progress, 1935, Vol. XXX, pp. 115-123.

XCV. H. F. BARNES. "*Lavender Pests.*" Journal of the Royal Horticultural Society, 1935, Vol. LX, pp. 113-118.

XCVI. H. F. BARNES. "*Notes on the Timothy Grass Flies* (Amaurosoma *spp.*)." Annals of Applied Biology, 1935, Vol. XXII, pp. 259-266.

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XCVII. H. F. BARNES. "*Two Gall Midges on* Erica arborea, *including the Description of One New Species* (*Cecidomyidae*)." Bulletin de la Société d' Histoire Naturelle de l' Afrique du Nord, 1935, Vol. XXVI, pp. 139-141.

XCVIII. H. L. A. TARR. "*The Brood Diseases of Bees.*" Report of the Lectures given at the Fifteenth Midland and South Western Counties Convention of Bee-keepers, 1935, pp. 21-31.

XCIX. H. L. A. TARR. "*A Note Concerning the Brood Disease Investigation at Rothamsted Experimental Station.*" Year Book of the South-Eastern Federation of Bee-keeping Associations, 1935, pp. 5-7.

C. H. L. A. TARR. "*Brood Diseases of Bees.*" Bee-keeping, 1935, Vol. I, pp. 115-123 and pp. 142-146, 1936, Vol. II, pp. 37-41.

CI. H. L. A. TARR. "*Abridged Report of the Foul Brood Investigation for September 30th, 1934 to September 30th 1935.*" Bee World, 1936, Vol. XVII, pp. 8-12. (Also in Bee Craft and British Bee Journal).

CII. H. L. A. TARR. "*The Organism of European Foul Brood of Bees.*" Nature, 1936, Vol. CXXXVII, pp. 151-152.

CIII. H. L. A. TARR. "*A Note Regarding* Streptococcus apis Maassen." Bee World, 1936, Vol. XVII, p. 19, (also in Bee Craft and British Bee Journal).

CIV. H. L. A. TARR. "Bacillus alvei *and* Bacillus para-alvei." Bee World, 1936, Vol. XVII, pp. 43-45, (also in Bee Craft and British Bee Journal).

CV. K. GRANT. "*Records of Butterfly and Moth Migration,* 1931-1934." South-Eastern Naturalist and Antiquary for 1935, Vol. XL, pp. 52-56.

CVI. A. C. EVANS. "*Physiological Races of* Lucilia Sericata, *Mg.*" Nature, 1936, Vol. CXXXVII, pp. 33-34.