

*The Helminthosporium Disease of Oats.* By the Department of Plant Husbandry [G. D. O'Brien and R. W. G. Dennis]. The West of Scotland Agricultural College Research Bulletin No. 3. Pp. 74. With 23 plates and 8 diagrams. Glasgow, 1933.

A rather distinctive feature of the publications that have been issued now for a decade or more from our larger experiment stations in series designated as "Research Bulletins," is that they have permitted extensive discussion of special agricultural problems with regard more particularly to their purely scientific aspects. The present publication, though from a foreign source, is broadly similar to this class of domestic contributions not only in series designation, but in nature of content and in treatment, as well. An introductory section dealing with the "leaf-stripe" disease of oats in Scotland, and a historical review of more general scope, is followed by sections considering in successive order, etiology, growth of the causal fungus in pure culture, morphology of the fungus, duration of viability of its conidia, influence of environmental factors, pathogenicity of the fungus, leaf infection and pathological anatomy, biology of the fungus, control of the disease, and varietal susceptibility. The text is supplemented with appropriate graphs, workmanlike line-drawings, and excellent half-tone reproductions of photographs; and that in numbers so unstinted as to lead one to suspect that the country in which the memoir was published may be unjustly celebrated as a land of excessive frugality. A summary covering one page, and a bibliography citing 70 titles concludes this valuable contribution.—CHARLES DRECHSLER, United States Department of Agriculture, Washington, D. C.