
Forest Insects

The increased study of forestry and forestry conservation problems has impressed upon many workers the great importance of training the men in these fields of specialization in forest entomology. Many courses in forest entomology have been taught using books on shade tree insects and references to scattered literature as readings for the course. Graham's "Principles of Forest Entomology" (an earlier book on this subject) deals largely with principles, and not a great deal is given on the large number of insects attacking forest or shade trees. The authors of this new textbook have brought together all the important literature on forest entomology into one large volume, and have presented it in the way that the subject is being taught at some of the universities today.

The chapter headings are as follows: Importance of Forest Entomology; Control of Forest Insects, General Considerations; Control of Forest Insects, Bark-Beetle Control; The Control of Insects Injurious to Forest Products; Bark-Beetles and Ambrosia Beetles; The Flat-Headed and Round-Headed Borers; Other Families of Beetles; The Moths and Butterflies; Sawflies, Horntails, Bees, and Ants; Aphids, Scale Insects and Others; Some Other Orders of Insects and the Mites; and Termites or White Ants. At the end of the book is an appendix consisting of the more important hardwood and coniferous trees of the United States and some of their principal insect enemies. The book is well indexed to both common and scientific names. Following each chapter is a list of the more important references which pertain to the particular subject being discussed.

The book is well illustrated, many of the drawings being used for the first time. There seems to be a slight tendency towards the treating of the western insects more thoroughly. Although a very large number of insects are mentioned in the book and the authors are to be complimented for their work, the writer feels that more detailed information on some of the more important insects would have been a valuable addition. The book should serve as a useful text for forest entomology at all forestry schools. It is the most complete text on the subject at the present time.—R. H. DAVIDSON.

Forest Insects, by R. W. Doane, E. C. Van Dyke, W. J. Chamberlin, and H. E. Burke. 463 pp. New York, The McGraw-Hill Book Company, 1936. \$4.50.