has not made personal observations himself, or wherever he thinks that some one else's record is better or fuller than his own. Thus the work is made complete to date, and succeeding observers will know what investigations have been made, and what remains to be done in this vast field of entomological research. The colored plates are beautifully and accurately done, and the wood cuts and other illustrations give careful details or full representations of a large number of the insects referred to in the text. Such a publication ought to encourage our own Government to follow the noble example set them in this respect at Washington.

C. J. S. B.

A Series of Thirty Colored Diagrams of Insects Injurious to Farm Crops.

Drawn from nature by Miss Georgiana E. Ormerod. W. & A. K. Johnston,
London, England, 1891.

These diagrams are beautifully and accurately executed, and will be found most useful by anyone who is called upon to lecture to classes in entomology, or give addresses to farmers' institutes. They are sufficiently large, being thirty inches long and twentytwo wide, to be seen at some distance in a hall or class-room, and will serve to illustrate descriptions of an economic character. Though intended for England, nearly all of them are equally applicable to this country. They are divided into five sets of six each, which deal with the following objects:—(1) Common Insect Attacks: Ox Warble Fly, Horse Bot-fly, Large White Butterfly, Cockchafer, Turnip Flea-beetle, Onion Fly; (2) Insects affecting Various Kinds of Crops: Surface Caterpillars, Daddy Long-legs, Eelworms, Plant Bugs, Hessian Fly, Wire-worm; (3) Insects Affecting Particular Crops: Mangold Fly, Hop Aphis, Bean Beetle, Corn Thrips, Gout Fly, Corn Saw-Fly; (4) Insects affecting Fruit Crops: Winter Moth; American Blight (Aphis), Gooseberry and Currant Saw-fly, Apple Blossom Weevil, Codlin Moth, Magpie Moth; (5) Insects Affecting Trees: Pine Beetle, Pine Weevil, Pine Saw-fly, Goat Moth, Spruce Gall Aphis, Leopard Moth. The diagrams are sold singly at one shilling and sixpence each, or in sets. On each is shown the natural size of the insect as well as the greatly enlarged picture, a very necessary matter, as otherwise most erroneous impressions are formed by the ignorant of the real dimensions of the creature referred to. There is also printed on each a general description, by Miss Eleanor A. Ormerod, of the life history of the insect depicted, and of the best remedies to be employed against it.

A Manual of North American Butterflies, by Charles J. Maynard: 8vo., pp. 226. Boston, DeWolfe, Fiske & Co., 1891.

We are always glad to welcome the publication of a new book which is likely to render more easy, and consequently to popularize, the study of entomology. The author of the work before us has, no doubt, had this object in view when preparing this manual, in which are brought together" for the first time, descriptions of all the species of butterflies which occur in North America, North of Mexico." He has evidently taken a great deal of pains in the execution of his task, and expended much labor upon the descriptions of over six hundred and thirty species of butterflies, and in the preparation of the illustrations, for "not only is a colored plate given of one species of nearly all the genera, but wood cuts are given of some portion of about two hundred and fifty species, illustrating some peculiar character by which the insect may be known; both plates and wood cuts have, with a single exception, been drawn and engraved by the author himself." The wood cuts, giving a wing or a portion of a wing, of a number of closely allied species, will be found very useful helps by any one employing the book for the identification of his specimens, and are much superior to the coloured plates. Anyone with a large stock of specimens on hand, and with a few named in different genera to start with, will find this book a very useful and handy manual for the naming of his material, but this, we fear, is the extent of its value. The author has adopted the comparative method in his descriptions, which involves a constant reference to some other species, which the beginner in the study may chance not to have, and be woefully puzzled in consequence. There are no synopses, or comparative tables, of either genera or species given, but the author selects a species as his "type" and compares the other members of the genus with it. If the student possesses a specimen of this typical