female. Adding extension lengths, and changing soil auger bits is simplified. Extensions—extension shafts with the above standard fittings can be added for deeper borings. Shaft—cold rolled steel, cadmium plated, left-hand Acme thread, 33 in. overall length. Pressure plate—cast aluminum, 5 in. dia., bronze insert. Handle—light weight tubing 12 in. long.

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**Book Reviews**

**AUXINS AND PLANT GROWTH**

*By A. Carl Leopold, Berkeley and Los Angeles. Univ. of Calif. Press. 334 pages. Illus. 1955. $5.00.*

This book was written to assemble the fundamental work dealing with auxins and plant growth regulators. In the preface the author states that his object was to integrate the fundamental information on auxins with each of the applied phases of auxin technology. This aim has been attained by dividing the book into two parts: Fundamentals of Auxin Action, and Auxins in Agriculture. In the first part the development of the auxin concept and the occurrence and mechanism of growth regulators are discussed. Part two of this book deals with the practical uses of auxins in agriculture. Here are discussed such topics as rooting, parthenocarpy, flower and fruit thinning, dormancy and storage, and herbicides. The final chapter discusses the potential future of auxins in agriculture.

The author has succeeded very well in bringing together the mass of data in this field into an effective and well illustrated treatise. Numerous photographs, graphs, charts, and diagrams are used effectively throughout the text and an extensive bibliography is included in the appendix. This book is intended primarily for research workers who are interested in both fundamental and applied phases of plant physiology. It should be of value to an agronomist, a horticulturist, a plant pathologist, as well as to the plant physiologist interested in the fundamentals of auxin physiology—S. C. WIGGANS.

**APPLIED ENTOMOLOGY, AN INTRODUCTORY TEXT-BOOK OF INSECTS IN THEIR RELATION TO MAN, FIFTH EDITION**


Since first published in 1921 as one of the McGraw-Hill publications in the Agricultural Sciences, Applied Entomology has been a popular and useful textbook for beginning students of economic entomology. A unique feature of this book has been the presentation of subject matter according to the classification of insects. The fifth edition retains the general organization of the previous editions.

Chapters 1 to 4 deal in a general way with the place of insects in the animal kingdom, and the structure, physiology, and development of insects; chapters 5 to 8 give briefly the economic importance of insects; control methods, and a discussion of insecticides, including the arm-organic compounds; chapter 9 presents the practical book for students who will not specialize in entomology who desire a broad general knowledge of the subject, and also to serve as an introductory survey for those students who desire to become professional entomologists.—J. T. MEDLER.

**AMERICAN AGRICULTURE—ITS STRUCTURE AND PLACE IN THE ECONOMY**

*By Ronald L. Mighell. New York, John Wiley & Sons, Inc. 187 pp. 1955. $3.00.*

This is the first of the new Census Monographs of the Committee on Census Monographs of the Research Council, and written in cooperation with the Agricultural Research Service. Agricultural statistics are rather dull reading for almost everyone except the economist, and a book such as this might well correct such an unfortunate tendency. The volume facts enumerated in the 1950 census are tabulated, listed, and discussed in such a way that the general student will come to realize that not even the American people themselves are aware how far the nation has advanced toward an integrated economy. The book includes the following: Agriculture Today and Tomorrow—a discussion on the significance of new inputs; Agriculture in the Total Economic Process—a discussion of the nature of contemporary agriculture and society in the first half of this century; Structural Changes in Agriculture—a discussion of the “stresses and strains” which beset agriculture in the United States, and the changes which have taken place in U. S. agriculture and the entire national economy. In the preface the author states that not even the American people themselves are aware how far the nation has advanced toward an integrated economy. The first half of the century includes the following: Agriculture Today and Tomorrow—a discussion on the significance of new inputs; Agriculture in the Total Economic Process—a discussion of the nature of contemporary agriculture and society in the first half of this century.

The great value of the book lies in its emphasis on changes that have taken place in U. S. agriculture and the entire national economy. In the preface the author states that not even the American people themselves are aware how far the nation has advanced toward an integrated economy. The volume includes the following: Agriculture Today and Tomorrow—a discussion on the significance of new inputs; Agriculture in the Total Economic Process—a discussion of the nature of contemporary agriculture and society in the first half of this century.