

# New Books . . .

## Soil Conservation.

By J. H. STALLINGS. Prentice-Hall Inc., Englewood Cliffs, N.J., 1957. 575 pages. \$8.50. Reviewed by FIRMAN E. BEAR, *Soil Science*, New Brunswick, N.J.

SOME 20 years of experience in various capacities in the Soil Conservation Service, USDA, constitute the background from which the author of this book proceeded in his consideration of the subject. Since most of his experience was behind a desk rather than out in the open field, where wind and water get in their dirty work, the touch of the practicing conservationist is missing.

But the book presents the conclusions of a well-read conservation philosopher who has spent the better part of his life mulling over the consequences of the acts of man in relation to his environment. And he has carefully studied the literature dealing therewith. As would be expected, the author starts with the appalling story of "man's ancient struggle with soil erosion." He then analyzes man's more recent sins of commission and omission in dealing with the land. Finally, he examines in detail the modern approaches through research and its application to the solution of the soil conservation problem.

The three parts into which the book is divided cover the history of land use and abuse, the fundamental aspects of soil science as it relates to the conservation problem, and conservation practices, involving the use of all land in conformity with its capabilities. Each of the 25 chapters, whether it is dealing with the laws of wind and water erosion, soil aggregation, or soil structure, the techniques of soil surveying and testing, or the problems arising from cultivation without proper attention to ground cover, with consideration of means of solving and avoiding them, is carefully documented. Thus the book becomes a highly valuable work of reference for all those who are concerned with soil conservation, whether in terms of research or practice. The work of some 600 authors is reviewed. Virtually everything of importance that has ever been published on the subject was undoubtedly considered.

An outstanding feature of this voluminous presentation is the collection of excellent illustrations, mostly from the files of the Soil Conservation Service. A weak spot is the index, which has not been adequately developed.

An abridged edition of the book, with an attractive cover in color, is available from the same publisher under the title "Soil—Use and Improvement." This edition has 403 pages and is priced at \$5.95.

## Insecticide Recommendations

"Insecticide Recommendations of the Entomology Research Division for the Control of Insects Attacking Crops and Livestock—1957 Season" is a new 109-page booklet available from the U. S. Department of Agriculture for 65 cents.

The booklet lists insects, the crops they attack, and the insecticides that control them. It gives information on formulations to be used, application methods, and dosage, and tells how many days before harvest they can be applied.

The booklet can be obtained by writing the U. S. Department of Agriculture, Washington 25, D. C., for Agricultural Handbook No. 120.

## LITERATURE AVAILABLE

**Ant Control.** Black and white- and color-sound film, cleared for TV use, on ant control. Film affords means for training personnel in modern ant control methods, or providing factual background for ant insecticide sales promotions. It covers the life cycle and habits. Running time 13.5 min. Copies may be obtained on a free, loan basis by writing to Dept. A&F, VELSICOL CHEMICAL CORP., 330 East Grand Ave., Chicago 11, Ill.

**Antioxidants Extraction.** Brochure describes extraction of antioxidants from a variety of foods, feeds, and packaging materials, qualitative tests for presence of antioxidants, preparations of standard concentration curves and spectrophotometric quantitative tests, plus a discussion of the reproducibility of these test methods. Three phenolic antioxidants are covered: butylated hydroxyanisole (BHA), butylated hydroxytoluene (BHT), and propyl gallate. Dept. A&F, EASTMAN CHEMICAL PRODUCTS, INC., Kingsport, Tenn.

**Liquid Fertilizer Attachments.** Folder describing wide line of liquid fertilizer equipment available from Dept. A&F, JOHN DEERE PLOW CO., Chamblee, Ga.

**Miticide.** Technical service bul-

letin on Chipman 6199 (formerly Tetram 75) recommended for experimental use on cotton. G. W. Case, Dept. A&F, CHIPMAN CHEMICAL CO., INC., Bound Brook, N. J.

**Pellet Mill.** Machine forms powdered and dusty material into compressed pellets for better handling. Pellets eliminate dust and fines when handling valuable or toxic materials and improve working conditions, as well as avoiding loss of materials. Ask for Bull. 182, Dept. A&F, Pellet Mill Division, SPROUT, WALDRON & CO., INC., Muncy, Pa.

**Seed Treatment.** Information on how seed treatment works, when it pays to treat seed, how it contributes to better stands, greater seedling vigor, larger yields, and improved crop quality, given in 16-page, illustrated booklet. Separate sections devoted to wheat, oats, cotton, barley, flax, rice, and sorghum. Diseases and treating results described for each crop. May be obtained by writing Dept. A&F, PANOGEN, INC., Ringwood, Ill.

**Soil Fumigant.** Data sheet gives details of gravity application kit, designed to provide more accurate application of soil fumigants. Unit attaches to tractor; liquid flows by gravity from supply tank through metering tubes that regulate rate of flow to ground applicators; from two to six outlet headers may be used. Dept. A&F, FABRICATED METALS, INC., San Leandro, Calif.

**Spray Tolerances.** Wallet-size folder contains list of agricultural chemical spray tolerances giving time limitation in days before harvest on various crops. List condensed from information from USDA. Dept. A&F, UNITED-HECKATHORN, 600 South Fourth St., Richmond, Calif.

**Tomato Disease Control.** Leaflet describes company's maneb fungicide, Dithane M-22, effective in controlling late and early blight, anthracnose, Septoria leaf spot, and gray leaf spot. Ask for AG-79, Dept. A&F, ROHM & HAAS CO., Washington Square, Philadelphia 5, Pa.

**Tomato Insect Pest Control.** Leaflet discusses applications of toxaphene for control of tomato hornworm, tomato russet mite, flea beetles, vegetable weevil, cutworms, tomato fruitworm, and blister beetles. For details, write Dept. A&F, HERCULES POWDER CO., Wilmington 99, Del.