

New Books

Advances in Agronomy, Vol. X

Edited by A. G. NORMAN. XII + 547 pages. Academic Press, Inc., 111 Fifth Avenue, New York 3, N. Y. \$12.50. Reviewed by M. S. ANDERSON, Agricultural Research Service, USDA Beltsville, Md.

VOLUME X of this series follows the established pattern of including widely differing subject matter along agronomic lines. It is a larger book than any of the previous volumes. Twenty-five authors prepared the 11 chapters.

The book opens with a chapter entitled "Agronomic Trends and Problems in the Great Plains." Seven authors from different parts of the large area involved prepared this miniature monograph. A third chapter on grasses and legumes supplements, to some extent, the discussion of the Great Plains.

Two chapters deal with vegetable oil plants, placing emphasis on their commercial aspects. One comparison points out the importance of the fact that castorbean is poisonous while safflower is not. The castorbean also presents difficulties of harvesting. This is one of the oldest known plants, but only recently has equipment for mechanical harvesting been devised. Plant breeders have accomplished much in the development of desirable characteristics of both castorbean and safflower plants. Much information about these two oil plants is included.

Agronomists of the Corn Belt, in particular, will appreciate the chapter on corn plant populations. Growers are advised that it is often better to underplant than to overplant.

Soils and fertilizers are treated in several chapters; one deals with the soil and fertilizer situation in Australia.

The chapter on liming considers theoretical aspects as well as practical farm utilization of liming materials.

Cereal growers will welcome the chapter on wheat stem rust. The importance of race 15B of wheat stem rust and possibilities of its control through breeding and fungicides are discussed.

Agronomists should welcome this latest excellent volume of a continuing series.

LITERATURE AVAILABLE

Acronize for Fishing Industry. Technical bulletin presents detailed information on the method of using

Acronize chlortetracycline to preserve fish. Copies available from Dept. A&F, Food Industry Development, AMERICAN CYANAMID CO., 30 Rockefeller Plaza, New York 20, N. Y.

Attrition Mills. Data sheet gives specifications of attrition mills designed for reduction of friable materials, such as fertilizer, and nonfriable materials, such as plant fiber and seeds. Write Dept. A&F, MUNSON MILL MACHINERY CO., Utica, N. Y.

Butynediol. Comprehensive review of butynediol, which can be used as a defoliant and as an intermediate for other agricultural chemicals. Forty-page booklet discusses physical and chemical properties, industrial applications, storage, and handling. Dept. A&F, ANTARA CHEMICALS, GENERAL ANILINE & FILM CORP., 435 Hudson St., New York 14, N. Y.

Cotton Pest Control. Leaflet describes formulations available, dosage recommendations, and application methods for use of Trithion to control two spotted mite, cinnabar mite, tropical mite, cotton aphid, leafworm, and leaf perforator on cotton. Write Dept. A&F, STAUFFER CHEMICAL CO., 380 Madison Ave., New York 17, N. Y.

Diatomaceous Earth. Four-page bulletin lists technical data, uses (including insecticide and fertilizer conditioning), and properties of Aquafil diatomaceous earth. Ask for it from Dept. A&F, AQUAFIL CO., 321 State St., Los Altos, Calif.

Dry Processing Equipment. Color catalog on mills, air separators, blenders, mixers, crushing and milling machines, fluid energy grinding mills, and other fertilizer industry equipment. To obtain a copy, write Dept. A&F, STURTEVANT MILL CO., Park and Clayton Sts., Boston 22, Mass.

Electron-Beam Processing. Technical and economic factors that must be considered in applying electron-beam radiation to industrial processing, including preservation of food, are covered in 32 pages. For Bulletin P, write on company letterhead to Dept. A&F, HIGH VOLTAGE ENGINEERING CORP., Burlington, Mass.

Controlling Fruit Insects and Mites. Chart outlines recommended procedures for use of Trithion to control a number of insects and mites that infest deciduous fruit trees. Write Dept. A&F, STAUFFER CHEMICAL CO., 380 Madison Ave., New York 17, N. Y.

Fungicide, Bactericide Intermediate. Data on reactions and applications of acetophenone outlined in 12-page bulletin. Among its possible uses are: as a synergist for insecticides containing pyrethrins, and as an intermediate for production of novel antifungal and antibacterial compounds. Copy available from Dept. A&F, UNION CARBIDE CHEMICALS CO., 30 East 42nd St., New York 17, N. Y.

Fungicide, Herbicide Intermediates. Properties and uses of alkyl and alkylene amines detailed in 52-page booklet. Latter are intermediates for fungicides and herbicides. Available from Dept. A&F, UNION CARBIDE CHEMICALS CO., 30 E. 42nd St., New York 17, N. Y.

Sevin on Fruit. How to use Sevin insecticide to control major fruit pests is described in two folders, F-40461 on apple, pear, and peach pests, and F-40460 on grape insects. Ask for copies from Dept. A&F, UNION CARBIDE CHEMICALS CO., 30 E. 42nd St., New York 17, N. Y.

Molecular Sieves. Booklet explains how these synthetic metal-aluminosilicates can be used as absorbents for such volatile agricultural chemicals as ethylene, ammonia, allyl alcohol, and others. Write Dept. A&F, LINDE CO., 30 E. 42nd St., New York 17, N. Y.

Spensol Green. Handbook covers granular and nongranular phases of mixed fertilizer manufacture. Basic tables useful in production calculations are also included in book's 125 pages. Available from Dept. A&F, SPENCER CHEMICAL CO., Dwight Bldg., Kansas City 5, Mo.

Spreader-Sticker. Folder on Plyac, a spreader sticker produced from emulsifiable polyethylene. It is used with pesticide sprays to improve initial residual effectiveness and reduce number of sprays needed. Available from Dept. A&F, GENERAL CHEMICAL DIVISION, ALLIED CHEMICAL CORP., 40 Rector St., New York 6, N. Y.

Terraclor for Beans. Application guide gives details on effective use of Terraclor soil fungicide on beans. Write Dept. A&F, OLIN MATHIESON CHEMICAL CORP., Insecticide Products, Baltimore 3, Md.

Urox Weed Killer. Folder on use of Urox, a granular herbicide for use in noncrop areas. Copies available from Dept. A&F, GENERAL CHEMICAL DIVISION, ALLIED CHEMICAL CORP., 40 Rector St., New York 6, N. Y.