

Industry News

EPA recently approved registration of: Apron 25WP (metalaxyl), Ciba-Geigy, seed treatment for control of Pythium damping-off on several crops; Bayleton 50WP (triadimefon), Mobay Chemical, foliar spray for control of powdery mildew and other diseases on apples, grapes, pears, wheat, barley, and pineapples; Bravo 500 (chlorothalonil), Diamond Shamrock, foliar spray for control of brown rot and other diseases of stone fruit and of leaf spot on dry beans and cowpeas; Ridomil 2E (metalaxyl), Ciba-Geigy, soil application for control of Phytophthora root rot of avocado and Pythium damping-off of cotton and tomatoes; Ridomil MZ 58WP (metalaxyl plus mancozeb), Ciba-Geigy, foliar spray for control of downy mildew on vegetables; Rovral 50WP (iprodione), Rhone-Poulenc, foliar spray for brown rot and blossom blight on stone fruits.

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The registration of Ridomil MZ, a mixture of the systemic fungicide metalaxyl and the protectant fungicide mancozeb, is the first from EPA addressing the problems of fungicides vulnerable to potential resistance.

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Management in industry continually asks for estimates of crop losses caused by plant pathogens. Plant diseases cause significant production losses annually, but few reliable loss estimates are available. Exceptions include the Cotton Council's loss estimates, published annually since 1952. The USDA published the last all-encompassing estimates in 1965--which points up the need for up-to-date crop loss estimates.

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Industry is often asked to develop a bactericide, and the question that comes to mind is, which bacterial pathogen is of greatest economic importance in the United States? Erwinia amylovora? E. carotovora? Xanthomonas campestris? Pseudomonas syringae? P. solanacearum? Agrobacterium tumefaciens? Or some other pathogen? While the discussion continues among plant pathologists, industry must justify maintaining a bactericide screen for product development, even though bringing such a product to market costs \$15 million. This is one reason for industry's increasing interest in natural products.

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Allan J. Tomlinson was named chairman, president, and chief executive officer of the recently announced Diamond Shamrock-Showa Denko international biotechnology joint venture, with world headquarters in Painesville, OH. Tomlinson was previously president and chief executive officer of Diamond Shamrock Corporation. Other officers of the new venture are: W. Dale Wegrich, senior vice-president for finance and administration and interim director of research; Ronald L. December, vice-president for agricultural chemicals business; and John C. Dannemiller, vice-president for animal health business.

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This new column prepared by the members of the APS Industry Committee broadens the scope of PLANT DISEASE by presenting news on developments, trends, and needs in industry. Items of interest may be sent to: H. V. Morton, Ciba-Geigy Corporation, P.O. Box 18300, Greensboro, NC 27419.

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Diseases and Pests of Ornamental Plants, 5th Edition
Pascal Pirone, New York Botanical Gardens

This reference discusses the diagnosis and treatment of diseases and organisms afflicting nearly 500 genera of ornamental plants grown outdoors, under glass, or in the home. It includes up-to-date control methods, identification of new diseases, recognition of the spread of known diseases to a wider range of hosts, expanded discussions of fungicides and other chemicals. Illustrated. 566 pp. 1978.

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Introduction to Plant Nematology
Victor H. Dropkin, University of Missouri

This text develops nematology in systematic fashion, stressing plant pathological aspects. It provides a firm theoretical base and includes enough practical information to enable the readers to recognize when crops have nematode problems, to collect and identify the organisms, and to recommend suitable control measures. Extensive literature references. Illustrated. 293 pp. 1980.

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Breeding Plants Resistant to Insects
Fowden G. Maxwell and Peter R. Jennings

This timely volume brings the reader up to date with a collection of articles by leading authorities from many nations. All phases of the subject are covered, from concepts and principles to basic and applied methods and techniques. Written by plant pathologists, plant breeders, entomologists, and specialists in related subjects, the book provides stimulating reading and a wealth of new information in a rapidly growing field. It will be a valuable resource for researchers and students in the field. 683 pp. 1980.

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SEMIOCHEMICALS
Their Role in Pest Control

Donald A. Nordlund, Richard L. Jones, W. Joe Lewis

This new text is the first book to describe a wide variety of semiochemicals, with practical approaches to their use in pest control. Many chapters deal with semiochemicals from the perspective of a particular pest management approach or problem. Five topic groups include introduction; role and significance of allelochemics; role and significance of pheromones; chemistry and evolution of semiochemicals; and conclusion. The book is invaluable to scientists, researchers, and students of semiochemicals, insect behavior, biochemistry, exology, biological control, and ethology. 306 pp. 1981.

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PLANT DISEASE CONTROL
Resistance and Susceptibility

Richard C. Staples and Gary H. Toenniessen

This text presents the most current information on new methods for control of plant diseases. It is written by an international group of scientists on basic mechanisms and effects of various aspects of the plant pathogen relationship. Information is divided into three parts including compatible host pathogen interactions, host-parasite incompatibility, and new directions in development of plants resistant to disease. 312 pp. 1981.

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Mode of Action of Herbicides, 2nd Edition
Floyd M. Ashton and Alden S. Crafts, University of California, Davis.

This new book provides an introduction to the physiology and biochemistry of the chemical weed killers, and summarizes current information on the properties, commercial forms, and field use of some 150 products. It covers absorption, translocation and molecular fate of herbicides, as well as growth, anatomical, cytological, physiological and biochemical modifications of higher plants induced by chemical weed killers. 525 pp. 1981

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Weed Science: Principles and Practices, 2nd Edition
Glenn C. Klingman, Eli Lilly and Company; Floyd M. Ashton, University of California, Davis; and Lyman J. Noordhoff, USDA.

This text deals with basic principles and methods of weed control, specific chemistry of herbicides, and weed control practices in specific crops, pastures, and range, brush and undesirable trees, aquatic areas, total vegetation control, lawns, turf, and ornamentals. Also, it deals with application techniques, control of spray drift, volatility, and similar basic principles. This broad coverage will be helpful to research scientists, extension specialists, county agents, vocational agriculture teachers, herbicide-development representatives, and advanced farmers. 1982.

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Introduction to Insect Pest Management, 2nd Edition
Robert L. Metcalf, University of Illinois, Urbana; and William H. Luckman, Illinois Agricultural Experiment Station, Urbana.

This book discusses all aspects of insect pest management. It explores principles, tactics, strategy, with examples of pest management programs for different crops, and pest management strategies for insects affecting man and domestic animals. It also comments on pest management in the future. 576 pp. 1982.

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