



Biological Control in Plant Protection: A Colour Handbook, Second Edition

By Neil Helyer, Nigel D. Cattlin, Kevin C. Brown

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There has been a large increase in the commercial use of integrated crop/pest management methods for pest and disease control on a wide range of crops throughout the world since the first edition of this book. The completely revised second edition of the bestselling **Biological Control in Plant Protection: A Color Handbook** continues the objective of providing a handbook with profiles and full-color photographs of as many examples of biological control organisms from as wide a global area as possible. It is designed to help readers anticipate and recognize specific problems of pest management and then resolve them using the natural enemies of pests?parasites, predators, and pathogens.

The authors first describe the impact of predator-prey relationships on host plant species in arable, orchard, and protected environments. The main sections of the book include profiles of pests, beneficial arthropods (insects and mites), and beneficial pathogens (bacteria, fungi, viruses, and nematodes), featuring a tabular pest identification guide. Descriptions of biocontrol organisms are divided into four sections: species characteristics, lifecycle, crop/pest associations, and influences of growing practices. The text is illustrated throughout with color photographs of the highest quality.

This revised edition helps readers more fully understand the concepts and practice of biological control and integrated pest management. All chapters have been updated and expanded, and more than 300 new photographs have been added. The second edition covers new beneficial organisms and pest profiles, and it includes a new chapter on the practical aspects and application of biological control. It also contains a new final chapter that puts biological control in perspective, discussing interactions that occur when using biocontrol for population management as well as some of the possible mechanisms of biocontrol.

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- Sales Rank: #2209523 in Books
- Published on: 2014-03-07
- Original language: English
- Number of items: 1
- Dimensions: .86" h x 7.25" w x 10.10" l, .0 pounds
- Binding: Hardcover
- 276 pages

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Editorial Review

Review

Praise For the Previous Edition:

...high quality photographs and accurate information... a practical guide for gardeners and a textbook for students studying applied entomology...will also be appreciated by naturalists.

?European Journal of Entomology

From the Back Cover

Now reissued in softcover, this book is designed to help the reader anticipate and recognize specific problems of pest management and then resolve them using the natural enemies of pests -- insects, mites and diseases. An introductory section describes the impact on predator/prey relationships and the population dynamics of host species environments for arable, orchard and protected plants. The main sections on pest profiles, beneficial species and entomopathogens provide a pest identification guide and concise text dealing with species characteristics, life cycle, damage symptoms, plant/pest association and influence on growing practices. Packed with over 300 color photographs of the highest quality, this handbook will be a valuable reference guide for professional, academic and lay readers, including growers, farmers, consultants, scientists and students.

About the Author

Neil Helyer joined the Glasshouse Crops Research Institute as an entomologist in 1976. He joined Fargro Ltd. as their Integrated Pest Management Specialist in 1995. Currently, Neil visits horticulturalists to develop and monitor IPM programs, the majority of which are specifically designed for each site and crop. These include protected salad crops, soft fruit, ornamentals, and hardy nursery stock, as well as botanic gardens (RBG Kew, RHS Wisley, etc.) and interior plant landscapes. Neil holds a BASIS certificate and ensures that his technical information base is kept up to date by being a member of the BASIS Professional Register.

Nigel Cattlin joined ICI's Plant Protection Division at Jealott's Hill Research Station in 1963. He later formed and led its photographic unit, carrying out research projects with high-speed, time-lapse, and aerial photography. In 1981 Nigel established Holt Studios, an independent company providing a specialist photographic service to the agricultural industry, government organizations, and publishers. This resource is widely used for text and reference books, trade and consumer magazines, and advertising. Holt Studios' main business was transferred to another agency in 2005, but Nigel continues to take photographs in his specialized fields of interest.

Dr. Kevin Brown joined the Sittingbourne Laboratory of Shell Research Ltd. in 1986 as an ecotoxicologist. He was a founding member of the Beneficial Arthropod Testing Group (BART) in 1988 and is an author of many of the current regulatory ring-tested methods for nontarget arthropods. In 1989 he established Ecotox Limited, a contract testing facility. He now works as an independent ecotoxicologist and environmental consultant conducting and refining risk assessments, monitoring higher tier studies on behalf of clients, and participating in multifacility research projects.

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