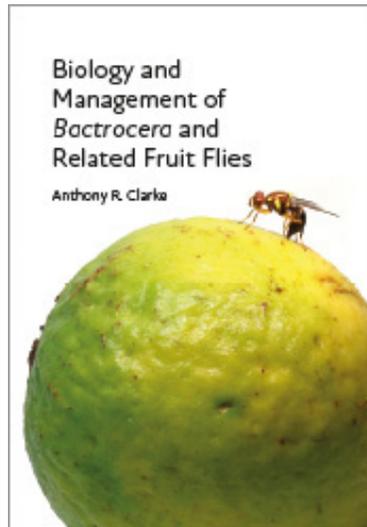


BOOK REVIEW

Biology and Management of *Bactrocera* and Related Fruit Flies

Anthony R. Clarke

CAB International, 2019, ISBN 978 1 789 241 822.



This book contains 12 chapters and 254 pages, containing much information and offers to be a rather enjoyable read. Very few of the sections are overly long and the text flows well from one section to another. The first chapter sets the scene, covering many areas including food security, crop production, quarantine and pest management based on science. The essential systematics, taxonomy, biodiversity and evolutionary biogeography are provided. The basic biology and ecology section reviews knowledge of key fruit fly life processes and the interaction with the landscape. This knowledge is essential for fruit fly management. The many facets of reproduction are well covered.

Chapter six on host use has a range of interesting material including host recognition, selection, and oviposition. Issues such as host ranking are of interest for market access people. Chapter seven examines invasiveness, both natural and human assisted. Also of trade interest, competition between species, probability of detection, risk, emergency response and components of area management are discussed in chapter seven. A range of natural enemies and other environmental influencers are covered in 15 pages. Chapter nine covers the all-important pre-harvest management and this section is important given recent developments in south eastern Australia. The sterile insect technique is covered relatively briefly, followed by other key management techniques of male annihilation technique, pesticides, crop hygiene, feral tree management, mechanical protection and culminates in area-wide integrated pest management. Peter Leach contributed 20 pages on phytosanitary measures, not only the various techniques and also their use in international trade and the complexity of their application in a trade world with many standards. Peter's chapter then flows well into the review of the many international standards and conventions, and the interplay between all these by the many countries seeking to optimize their exports and to feed their people. The final chapter is looking forward towards what scientists may have to deal with in our ever changing future.

This book is a one stop shop for those interested in *Bactrocera* and related fruit flies. Information is just as valuable for managers on a single farm, for regional managers and for those engaged in international trade. This is a worthy addition to any fruit fly library.

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