

Preface

This project emerged from three simple facts: (i) Certain species of tephritid fruit flies are among the world's most notorious pests of commercially important fruits and vegetables; (ii) trapping these flies is vital to identifying infestations, controlling detected populations, and establishing guidelines for international transport of agricultural commodities; and (iii) despite its central role, there exists no comprehensive repository of factual or theoretical material relating specifically to trapping issues for economically important Tephritidae. While the editors (and we assume many of the authors) would admit to a scientific fascination with this group of insects, production of a volume devoted strictly to trapping of a relatively small number of pest species reflects, not just this scientific curiosity, but also the serious impact these pests have on global commerce. As Aldo Malavasi notes in his Introductory Remarks, every major fruit and vegetable growing county in the world maintains some program relating to surveillance and control of tephritid fruit fly pests. Thus, trapping issues concern scientists, regulatory agencies, and trade organizations in countries of every continent, from Australia and Brazil through the alphabet to Yemen and Zimbabwe.

We thank all the authors for their contributions, which were produced without financial compensation. Collectively, they exhibited a spirit of industry, cooperation, and patience that smoothed the task of editing. We extend special thanks to A. Malavasi, who graciously provided introductory remarks. TS also thanks J.C. Stewart, who allowed him time to initiate and complete this project.

Each chapter was reviewed by at least one editor and at least one external reviewer. We extend deep appreciation and gratitude to the following individuals, who served as reviewers: R. Dowell, J. Duan, R. Duthie, W. Enkerlin, Y. Gazit, S. Geib, T. Holler, P. Kendra, L. Leblanc, A. Liebhold, N. Manoukis, A. Manrakhan, D. McInnis, M. De Meyer, D. Midgarden, S. Myers, A. Norrbom, J. Piñero, J. Rojas, D. Rubinoff, M. San Jose, D. M. Suckling, S. Thornsberry, M. Virgilio, T. Yamanaka, B. Yuval, and J. L. Zavala Lopez.

We also thank those who graciously provided the photos appearing in the preceding gallery.

Our goal was to produce a comprehensive synthesis of tephritid-centric trapping issues, and accordingly the topics included are far-ranging and address lures and traps, population ecology and detection, suppression and eradication strategies, and regulatory issues. We hope we have achieved this goal and that this volume proves useful for years to come.

Waimanalo, HI, USA
Miami, FL, USA
Hilo, HI, USA
Vienna, Austria
Hilo, HI, USA

Todd Shelly
Nancy Epsky
Eric B. Jang
Jesus Reyes-Flores
Roger Vargas

Trapping and the Detection, Control, and Regulation of
Tephritid Fruit Flies

Lures, Area-Wide Programs, and Trade Implications

Shelly, T.E.; Epsky, N.; Jang, E.B.; Reyes-Flores, J.;

Vargas, R.I. (Eds.)

2014, XV, 638 p. 49 illus., 24 illus. in color., Hardcover

ISBN: 978-94-017-9192-2