

TORTS

Newsletter of the Troop of Reputed Tortricid Systematists

ISSN 1945-807X (print)
ISSN 1945-8088 (online)

Volume 17

29 August 2016

Issue 2

NEW BOOK ON GRAPE PESTS IN CHILE

Lobesia botrana (D. & S.) y otras polillas plagas de la vid en Chile (Lepidoptera: Tortricidae). Serie Ciencias Agronómicas No. 22. 2015. Includes 87 figures, 170 pages; hardbound 6.75" x 8.5". Published by the Facultad de Ciencias Agronómicas, University of Chile, Santiago. ISBN 978-956-19-0892-5. Price \$25.00. Author: Roberto H. González.

This handsome book is written in Spanish, with the contents organized into six chapters, but before the first chapter there are abstracts ("Summary") in Spanish, English, and French. The primary focus of the book is the European grapevine moth, *Lobesia botrana*, and this pest is treated in meticulous detail. There are excellent descriptions and illustrations of the adults (including genitalia), larvae, pupae, and damage. And there are indepth discussions regarding its geographic distribution, biology, phenology, host plants, and control. The final chapter deals with native tortricids that attack grapes in Chile and includes well illustrated accounts of pest species in the genera *Proeulia*, *Chileulia*, and *Accuminulia*.

With over 185 publications dealing with various aspects of economic entomology, the author of the book, Dr. Roberto González, has a long history of working on tortricid (and other microlepidoptera) pests in Chile, and his expertise in this realm is surpassed by none.

You can order a copy of the book from Jimena Mora R. at "bagofo@uchile.cl".



THANK YOU TO REVIEWERS

As a Lepidoptera Section Editor for two journals (i.e., *Zootaxa* and *Proceedings of the Entomological Society of Washington*), I cannot over-emphasize the value of thorough and timely peer review by colleagues. I would like to take a little space here to acknowledge those who have provided significant assistance in processing manuscripts on Tortricidae over

the last decade or so. Those reviewers that I have imposed upon over and over include (in alphabetical order) Leif Aarvik, Joaquin Baixeras, Richard Brown, Todd Gilligan, Svetlana Nedoshivina, Nantasak Pinkaew, Jozef Razowski, and several others. If I forgot to mention you, I apologize for the oversight. We owe these colleagues a huge debt of gratitude for sharing their time and expertise. Thank you, John Brown

PAPERS ON TORTRICIDAE PUBLISHED IN 2015

- Alipanah, H. 2015. Contribution to the knowledge of Iranian Bactrini, Olethreutini and Enarmoniini (Lepidoptera: Tortricidae, Olethreutinae). SHILAP Revista de Lepidopterología 43 (169): 157–168.
- Asmatullah-Kakar, Anwar, M., Kamran, K., Iqbal, F. 2015. Chemical control of codling moth, *Cydia pomonella* L. (Lepidoptera: Tortricidae) in relation to pheromone trap catches and degree days in upland Balochistan. Pakistan Journal of Zoology 47: 297–305.
- Barros-Parada, W., Knight, A. L., Fuentes-Contreras, E. 2015. Modeling codling moth (Lepidoptera: Tortricidae) phenology and predicting egg hatch in apple orchards of the Maule Region, Chile. Chilean Journal of Agricultural Research 75(1): 57–62.
- Baughman, W. B., Nelson, P. N., Grieshop, M. J. 2015. Impact of cultivation and subsequent burial on *Cydia pomonella* (Lepidoptera: Tortricidae) and *Conotrachelus nenuphar* (Coleoptera: Curculionidae). Journal of Economic Entomology 108: 1215–1220.
- Birgüçü, A. K., Turanh, F., Gümuş, E., Güzel, B., Karsavuran, Y. 2015. The effect of grape cultivars on oviposition preference and larval survival of *Lobesia botrana* Den. & Schiff. (Lepidoptera: Tortricidae). Fresenius Environmental Bulletin 24: 33–38.
- Blaauw, B. R., Polk, D., Nielsen, A. L. 2015. IPM-CPR for peaches: Incorporating behaviorally-based methods to manage *Halyomorpha halys* and key pests in peach. Pest Management Science 71(11): 1513–1522. [*Grapholita molesta*]
- Bobadilla, D. 2015. First record of *Cydia tonosticha* (Meyrick) (Tortricidae) from Chile and a new host plant. Journal of the Lepidopterists' Society 69: 331–333.
- Bryner, R., Huemer, P., Wittland, W. 2015. Wiederentdeckung von *Dichrorampha rejectana* (de la Harpe, 1858) stat. rev., bona species in der Schweiz (Lepidoptera, Tortricidae: Olethreutinae). Contributions to Natural History 28: 1–21.
- Byun, B.-K., Kim, D.-S. 2015. Review of genus *Olethreutes* (Lepidoptera, Tortricidae) from North Korea. Journal of Asia-Pacific Biodiversity 8: 95–101.
- Chappell, T. M., Kennedy, G. G., Walgenbach, J. F. 2015. Predicting codling moth (*Cydia pomonella*) phenology in North Carolina on the basis of temperature and improved generation turnover estimates. Pest Management Science 71(10): 1425–1432.
- Coombes, C., Hill, M. P., Moore, S. D., Fullard, L. T. 2015. *Beauveria* and *Metarrhizium* against false codling moth (Lepidoptera: Tortricidae): A step towards selecting isolates for potential development of a mycoinsecticide. African Entomology 23: 239–242.
- Cormier, D., Chouinard, G., Vanoosthuyse, F., Pelletier, F., Bellerose, S., Bourgeois, G., Plouffe, D., Joannin, R. 2015. A phenology model for codling moth management in Quebec apple orchards. Acta Horticulturae 1068: 51–56.
- Deutsch, A. E., Rodriguez-Saona, C. R., Zalapa, J. E., Steffan, S. A. 2015. Temperature-mediated development thresholds of *Sparganothis sulfureana* (Lepidoptera:

- Tortricidae) in cranberries. *Environmental Entomology* 44(2): 400–405.
- Eiseman, C. S., Jensen, A. S. 2015. Insects feeding on sea lavender (Plumbaginaceae: *Limonium carolinianum* [Walt.] Britt) along the New England coast. *Entomological News* 124: 364–369.
- Eveleigh, E., Silk, P., Leclair, G., Mayo, P., Francis, B., Williams, M. 2015. Spruce budworm (Lepidoptera: Tortricidae) oral secretions I: Biology and function. *Environmental Entomology* 44: 1641–1651.
- Feng, Y., Wratten, S., Sandhu, H., Keller, M. 2015. Host plants affect the foraging success of two parasitoids that attack light brown apple moth *Epiphyas postvittana* (Walker) (Lepidoptera: Tortricidae). *PLoS ONE* 10 (4): art. no. e0124773.
- González, R. H. 2015. *Lobesia botrana* (D.&S.) y otras polillas plagas de la vid en Chile (Lepidoptera: Tortricidae). Universidad de Chile, Facultad de Ciencias Agronómicas, Serie Ciencias Agronómicas 22: 1–169.
- Grégoire, D. M., Quiring, D. T., Royer, L., Heard, S. B., Baucé, T. 2015. Indirect host-mediated effects of an exotic phloem-sap feeder on a native defoliator of balsam fir. *Forest Ecology and Management* 341: 1–7. [*Choristoneura fumiferana*]
- Grigg-McGuffin, K., Scott, I. M., Bellerose, S., Chouinard, G., Cormier, D., Scott-Dupree, C. 2015. Susceptibility of field populations of codling moth, *Cydia pomonella* (L.) (Lepidoptera: Tortricidae), in Ontario and Quebec apple orchards to a selection of insecticides. *Pest Management Science* 71: 234–242.
- Harari, A. R., Zahavi, T., Steinitt, H. 2015. Female detection of the synthetic sex pheromone contributes to the efficacy of mating disruption of the European grapevine moth, *Lobesia botrana*. *Pest Management Science* 71: 316–322.
- Heit, G., Sione, W., Cortese, P. 2015. Three years of *Lobesia botrana* (Lepidoptera: Tortricidae) flight activity in a quarantined area. *Journal of Crop Protection* 4 (suppl.): 605–615.
- Heppner, J. B. 2015. Florida Lepidoptera notes, 22. A new *Acleris* for Florida (Lepidoptera: Tortricidae: Tortricinae: Tortricini). *Lepidoptera Novae* 8: 33–35.
- Heppner, J. B., Bae, Y.-S. 2015. Review of *Nexosa* Diakonoff in Vietnam, with a new species and a new subspecies, and transfer to the tribe Archipini (Lepidoptera: Tortricidae: Tortricinae: Archipini). *Zootaxa* 3999: 32–40.
- Heppner, J. B., Bae, Y.-S. 2015. *Composocommosis* new genus, with a new species in Vietnam, and transfer of *Mictocommosis* to Archipini (Lepidoptera: Tortricidae: Tortricinae: Archipini). *Zootaxa* 3999: 144–150.
- Hofmeyr, J. H., Carpenter, J. E., Bloem, S., Slabbert, J. P., Hofmeyr, M., Groenewald, S. S. 2015. Development of the sterile insect technique to suppress false codling moth *Thaumatotibia leucotreta* (Lepidoptera: Tortricidae) in citrus fruit: Research to implementation (part 1). *African Entomology* 23: 180–186.
- Huertas-Dionisio, M. 2015. Estados immaturos de Lepidoptera (L) *Cydia strigulana* (Kennel, 1899) en Huelva, España (Lepidoptera: Tortricidae). SHILAP Revista de Lepidopterología 43(170): 263–269.
- Ismail, M., Albittar, L. 2015. Mortality factors affecting immature stages of codling moth, *Cydia pomonella* (Lepidoptera: Tortricidae), and the impact of parasitoid complex. *Biocontrol Science and Technology*: doi 10.1080/09583157.2015.1076378.
- Josval, J. K., Koczor, S., Toth, M. 2015. Traps baited with pear ester and acetic acid attract both sexes of *Hedya nubiferana* (Lepidoptera: Tortricidae). *Journal*

- of Applied Entomology: doi 10.1111/jen.12216.
- Juárez-Gutiérrez, A. C., Martínez, A. M., Figueroa, J. I., Rebollar-Alviter, A., Aguilera-Peña, M. M., Pineda, S. 2015. Record of the leafroller, *Amorbia cuneana* (Walsingham) (Lepidoptera: Tortricidae) in blackberry in Rancho Huatarillo, Peribán, Michoacán. *Acta Zoológica Mexicana* 31(2): 341–343.
- Kavurka, V. V. 2015. New records of tortricid moths (Lepidoptera: Tortricidae) from Ukraine. *The Kharkov Entomological Society Gazette* 23(1): 31–37.
- Kim, J.-D., Lee, K.-W., Park, K.-T. 2015. Three species of moths new to Korea (Lepidoptera). *Journal of Asia-Pacific Biodiversity* 8: 390–393. [*Hendecanuera impar*]
- Konecka, E., Hrycak, A., Kaznowski, A. 2015. Synergistic effect of *Bacillus thuringiensis* crystalline toxins against *Cydia pomonella* (Linneaus) (Tortricidae: Lepidoptera). *Entomologia Generalis* 35: 157–166.
- Larsen, K. 2015. Revision of the genus *Ditula* (Lepidoptera: Tortricidae) with description of a new species. *Phegea* 43(1): 2–5.
- LeClair, G., Williams, M., Silk, P., Eveleigh, E., Mayo, P., Brophy, M., Francis, B. 2015. Spruce budworm (Lepidoptera: Tortricidae) oral secretions II: Chemistry. *Environmental Entomology* 44: 1531–1543.
- Lotfalizadeh, H., Bab-Morad, M. 2015. *Copidosoma boucheanum* Ratzeburg (Hym.: Encyrtidae): new record from Iran. *Turkish Journal of Zoology* 39: 185–187. [tortricid leafroller on *Populus*]
- Luo, J., Fei, Y., Yu, H. 2015. First record of the genus *Neostatherotis* Oku from China, with the descriptions of four new species (Lepidoptera: Tortricidae: Olethreutinae). *Zootaxa* 3941: 247–254.
- Meredith, G. H. J. 2015. *Aphelia unitana* (Hb.) and bilberry tortrix *Aphelia viburnana* (D. & S.) (Lep.: Tortricidae) found in Gloucestershire. *Entomologist's Record and Journal of Variation* 127: 23.
- Nealis, V. G. 2015. Comparative ecology of conifer-feeding spruce budworms (Lepidoptera: Tortricidae). *Canadian Entomologist*: doi.org/10.4039/tce.2015.15.
- Nedoshivina, S. V. 2015. An annotated list of the type specimens of Tortricidae (Lepidoptera) in the collection of Zoological Institute, St. Petersburg, Russia. 1. Types of species described by O. Bremer, A. M. Djakonov, N. G. Erschoff, and A. M. Gerasimov. *Zootaxa* 3986: 127–134.
- Nemer, N., Bal, J., Bechara, E., Frérot, B. 2015. Pheromone identification of the cedar shoot moth *Dichelia cedricola* Diakonoff (Lepidoptera: Tortricidae). *Annales de la Société entomologique de France* (N.S.) [International Journal of Entomology] 50: 367–371.
- Orrillo, H. M., Rodríguez, C. A., Rosillo, L. P., Vargas, A. R. P. 2015. Ocurrencia de *Argyrotaenia sphaleropa* Meyrick (1909) (Lepidoptero: Tortricidae) en *Caesalpinia spinosa* (Molina) Kuntze Britton & Rose (1824). *Scientia Agropecuaria* 6: 329–331.
- Patibhakyothin, N., Pinkaew, N., Sukprakob, N. 2015. Two new species of the genus *Sorolopha* Lower (Lepidoptera: Tortricidae) from northern Thailand. *Zootaxa* 3949: 135–141.
- Poltavsky, A. 2015. An inventory of Tortricidae (Lepidoptera) from the Rostov-on-Don province of Russia. *Zootaxa* 4048 (4): 538–552.
- Porcel, M., Sjöberg, P., Swiergiel, W., Dinwiddie, R., Rämert, B., Tasin, M. 2015. Mating disruption of *Spilonota ocellana* and other apple orchard tortricids using a multispecies reservoir dispenser. *Pest Management Science* 71: 562–570.
- Razowski, J. 2015. African Tortricidae (Lepidoptera) chiefly from the collection of Graziano BASSI. *Acta Zoologica Cracoviensis* 58: 21–100.

- Razowski, J., Becker, V. O. 2015. Systematics and faunistics of Neotropical Eucosmini. 1. *Chimoptesis* Powell, 1964 (Lepidoptera: Tortricidae). Zootaxa 3941: 204–220.
- Razowski, J., Becker, V. 2015. Notes on Neotropical Microcorsini and Enarmoniini (Lepidoptera: Tortricidae). Polskie Pismo Entomologiczne 84: 145–154.
- Razowski, J., Karisch, T. 2015. Records of Tortricidae (Lepidoptera) from Bioco Island. Lambillionea 115(3): 217–233.
- Razowski, J., Pelz, V. 2015. *Pastazania* Razowski & Pelz, gen n., *Cylichneulia* Razowski, 1994, *Pseudapina* Brown, 2003, and *Gielisia* Razowski & Pelz, gen n. four Neotropical Euliina genera (Lepidoptera: Tortricidae). SHILAP Revista de Lepidopterología 43(172): 659–672.
- Reyes, M., Barros-Parada, W., Ramírez, C. C., Fuentes-Contreras, E. 2015. Organophosphate resistance and its main mechanism in populations of codling moth (Lepidoptera: Tortricidae) from Central Chile. Journal of Economic Entomology 108: 277–285.
- Richards, N. G. J. 2015. Bivoltinism in *Epinotia immundana* (Fischer von Röslerstamm) (Lep.: Tortricidae) in the Inner Moray Firth, Scotland. Entomologist's Record and Journal of Variation 127: 40–41.
- Rizvi, S. Z. M., Raman, A. 2015. *Epiphyas postvittana* (Lepidoptera: Tortricidae)-*Botrytis cinerea* (Helotiales: Sclerotiniaceae)-*Vitis vinifera* (Vitales: Vitaceae) interaction: the role of *B. cinerea* on the development of *E. postvittana* in synthetic nutritional media. Journal of Economic Entomology 108(4): 1646–1654.
- Sánchez-García, J. A., Figueroa, J. I., Whitfield, J. B., Pineda, S., Martínez, A. M. 2015. A new species of *Apanteles* Foerster (Hymenoptera: Braconidae) parasitic of two blackberry leafrollers (Lepidoptera: Tortricidae) in Mexico. Journal of the Kansas Entomological Society 88: 10–15.
- Shaw, P. W., Wallis, D. R. 2015. Parasitoids of leafrollers (Lepidoptera: Tortricidae) from scrub vegetation near horticultural areas in Nelson. New Zealand Plant Protection 68: 193–196.
- Siegwart, M., Bouvier, F., Maugin, S., Lecomte, A., Lavigne, C. 2015. Differentiating oriental fruit moth and codling moth (Lepidoptera: Tortricidae) larvae using near-infrared spectroscopy. Journal of Economic Entomology 108: 219–227.
- Sohn, J.-C., Park, K.-T., Cho, S. 2015. Seven species of Olethreutinae (Lepidoptera: Tortricidae) new to Korea. Journal of Asia-Pacific Biodiversity 8: 133–138.
- Steinitz, H., Sadeh, A., Kliot, A., Harari, A. 2015. Effects of radiation on inherited sterility in the European grapevine moth (*Lobesia botrana*). Pest Management Science 71: 24–31.
- Sullivan, B. T., Allison, J. D., Goyer, R. A., Shepherd, W. P. 2015. Sex pheromone of the baldcypress leafroller (Lepidoptera: Tortricidae). Journal of Economic Entomology 108: 166–172.
- Takahashi, M., Nakai, M., Saito, Y., Sato, Y., Ishijima, C., Kunimi, Y. 2015. Field efficacy and transmission of fast- and slow-killing nucleopolyhedroviruses that are infectious to *Adoxophyes honmai* (Lepidoptera: Tortricidae). Viruses 7: 1271–1283.
- Teixeira, R., Fernandez, J. I. R., Periera, J., Monteiro, L. B. 2015. Identification of *Grapholita molesta* (Busck) (Lepidoptera: Tortricidae) biotypes using infrared stereoscopy. Neotropical Entomology 44: 129–133.
- Vargas, H. A., Pollo, P., Basilio, D. S., Gonçalves, G. L., Moreira, G. P. R. 2015. A new cecidogenous species of *Eugnosta* Hübner (Lepidoptera: Tortricidae) associated with *Baccharis salicifolia* (Asteraceae) in the northern Chilean Atacama Desert: Life-history description and

- phylogenetic inferences. *Zootaxa* 3920(2): 265–280.
- Walgama, R. S. 2015. Hyperparasitism of *Homona coffearia* Nieth. (Lepidoptera: Tortricidae), the tea tortrix of Sri Lanka: Implications for biological control. *Advances in Entomology* 3: 33–43.
- Wright, D. J. 2015. Two new species of *Pelochrista* Lederer (Tortricidae) from eastern United States, with reviews of five similar species. *Journal of the Lepidopterists' Society* 69: 63–72.
- Wright, D. J., Gilligan, T. M. 2015. *Eucosma* Hübner of the contiguous United States and Canada (Lepidoptera: Tortricidae: Eucosmini). Wedge Entomological Research Foundation, Alamogordo, New Mexico, 256 pp.

The TORTS Newsletter is distributed twice per year: January-February and July-August. Membership or subscription is free. For information contact: John W. Brown, Department of Entomology, Smithsonian Institution, P.O. Box 37012, National Museum of Natural History, Washington, DC 20013-7012, USA. E-mail: tortricidae.jwb@gmail.com