Trader's Dispatch

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MSU scientist publishes a book on canola

The book comprehensively reviews current pest management practices and explores novel integrated pest management strategies in *Brassica* oilseed crops. It is essential reading for pest management practitioners and researchers working on pest management in canola and other *Brassica* crops worldwide.

Canola, mustard, camelina and crambe are the most important oilseed crops in the world. Canola is the second largest oilseed crop in the world providing 13% of the world's supply. Seeds of these species commonly contain 40% or more oil and produce meals with 35 to 40% protein. However, its production has declined significantly in recent years due to insect pest problems. The canola pest complexes are responsible for high insecticide applications on canola. Many growers rely on calendar-based spraying schedules for insecticide applications. The diamondback moth *Plutella xylostella* and flea beetles *Phyllotreta* spp. (*P. cruciferae* and *P. striolata*) cause serious damage to canola. In the Northern Great Plains, USA, for instance, *P. xylostella* is now recorded everywhere that canola is grown. Severe damage to canola plants can be caused by overwintering populations of flea beetles feeding on newly emerged seedlings. Cabbage seed pod weevil (*Ceutorhynchus obstrictus*), swede midge (*Contarinia nasturtii*), and tarnished plant bug (*Lygus lineolaris)* are also severe pests on canola. Minor pests include aphids (cabbage aphid, *Brevicoryne brassicae* and turnip aphid, *Hyadaphis erysimi*) and grasshopper, *Melanoplus sanguinipes*.

The book:

- is the only single compiled source of information on integrated management of canola and other *Brassica* oilseed pests
- presents the biology and management of all the major and minor pests of *Brassica* oilseed crops
- is an essential source of information for applied entomologists, crop protection researchers, extension agents and stakeholders

Readership:

Suitable for applied entomologists working on pest management in *Brassica* crops, pest management practitioners, scientists working in the agrochemical industries.

1: Flea Beetles (*Phyllotreta* spp.) and Their Management

2: Diamondback Moth (*Plutella xylostella*) Management

3: The Challenge of Swede Midge Management in Canola

4: Biology and Management of Sucking Insect Pests of Canola

5: Cabbage Seedpod Weevil Management

6: Biology, Ecology and Management of Pollen Beetle *Brassicogethes viridescens* (Coleoptera: Nitidulidae)

7: Noctuid (Lepidoptera: Noctuidae) Pests of Canola in North America

8: Biology and Management of the Generalist Herbivore, the Bertha Armyworm, *Mamestra configurata* (Lepidoptera: Noctuidae), on Canola in Western Canada

9: Entomopathogenic Nematodes for Management of Insect Pests of Canola and Other Oilseed Crops

10: The OKANOLA Project: Challenges in Managing Insect Pests of Canola in the Southern Plains

11: Integrated Pest Management in Canola: How Far Have We Come and What Is Still Needed

12: Canola Insect Pest Management in the South-eastern USA

13: Integrated Management of Insect Pests of Rapeseed (Canola) in China

14: Integrated Control of Insect Pests of Canola and Other Brassica Oilseed Crops in Pakistan

15: Cover Crops as a Tool for Insect Pest Management on Oilseed Brassicas

16: Detection and Symptomatology of Aster Yellows

17: Pestiferous Insects of Mustard: Biology and Integrated Management

18: Volatile Organic Compounds in Integrated Pest Management of Brassica Oilseed Crops

19: Impact of Genetically Modified Herbicide-resistant Oilseed Rape on Non-target Organisms: Natural Enemies of Oilseed Rape Pests

20: Insect-transmitted Viruses in Canola

21: Present and Potential Impacts of Insects on Camelina and Crambe

22: Integrated Pest Management and Pollination Services in Brassica Oilseed Crops

23: Role of Glucosinolates in Resistance and Attraction to Insects: Applications in Trap Cropping and Pest Management in *Brassica* Oilseed Crops

24: Arthropod Pests of Australian Canola During Crop Emergence: IPM and Future Directions

25: Use of Entomopathogenic Fungi in the Insect Pest Management of *Brassica* Oilseed Crops

Dr. Gadi V.P. Reddy has been an Entomologist at Montana State University Western Triangle Agricultural Research Center since 2012. Prior to that he spent 10 years in Guam working as a Chemical Ecologist and Entomologist. He has about 25 years of entomological research, teaching and extension experience and has worked in various programs. Dr. Reddy has a research background in pest management, biocontrol, behavioral and chemical ecology and multitrophic interactions. Dr Reddy has 150 publications in international journals. He serves as Editor for *Nature Scientific Reports*, *PLOS ONE*, *Environmental Entomology* and *Annals of the Entomological Society of America*, and *Florida Entomologist*. He was also Co-Editor for a multi-authored book Biological Control of Tropical Weeds Using Arthropods published by Cambridge University Press in 2009.