About the book

With growing concerns surrounding the impact of climate change on both native and invasive pest invasions, coupled with the rising threat of global food insecurity, more research is required to understand the major insect pests of cereals.

This book discusses the most recent developments in fundamental and applied research on major pests and shows how better understanding of these pests can be used to improve integrated pest management strategies.

About the editors

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Empowering knowledge - delivering sustainable agriculture

Advances in understanding insect pests affecting wheat and other cereals

Edited by: Professor Sanford D. Eigenbrode, University of Idaho, USA and Dr Arash Rashed, Virginia Tech, USA

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1. Cereal leaf beetle (*Oulema melanopus*): Edward W. Evans, Utah State University, USA
2. Grasshoppers and other orthopteran pests: Robert B. Srygley, Pest Management Research Unit, Northern Plains Agricultural Research Laboratory, USDA-ARS, USA

Part 2 Gall midges and stem feeding pests
3. The Hessian fly: a destructive pest of wheat and barley: Ming-Shun Chen, Hard Winter Wheat Genetics Research Unit, Center for Grain and Animal Health Research – USDA-ARS, USA; Nida Ghori, Kansas State University, USA; and Guihua Bai and Xuming Liu, Hard Winter Wheat Genetics Research Unit, Center for Grain and Animal Health Research – USDA-ARS, USA
4. Wheat midge (*Sitodiplosis mosellana*): management in the Northern Great Plains of the United States and Canada: Govinda Shrestha, Oregon State University, USA; and Gadi V. P. Reddy, Southern Insect Management Research Unit, USA
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8. Greenbug-wheat interactions, pest management and host resistance: L. A. Crespo-Herrera, International Maize and Wheat Improvement Center (CIMMYT), Mexico; J. Huerta-Espino, Instituto Nacional de Investigaciones Forestales Agrícolas y Pecuarias, Mexico; and R. P. Singh, International Maize and Wheat Improvement Center (CIMMYT), Mexico
9. Fescue aphid (*Metopolophium festucae*): Sanford D. Eigenbrode and Subodh Adhikari, University of Idaho, USA; and Arash Rashed, Virginia Tech, USA
10. The English grain aphid *Sitobion avenae*: Deguang Liu, College of Plant Protection, Northwest A&F University, China
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12. Advances in managing wireworms in cereal crops: challenges and future directions: Arash Rashed, Virginia Tech, USA; and Erik J. Wenninger, University of Idaho, USA

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