

Integrated weed management for sustainable agriculture

Edited by Robert L. Zimdahl, Professor Emeritus
Colorado State University, USA



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New title information

Integrated weed management for sustainable agriculture

Edited by: Emeritus Prof. Robert Zimdahl, Colorado State University, USA

Endorsement:

"Bob Zimdahl has been a true Renaissance thinker throughout his career as a weed scientist. He has addressed controversial problems and challenged the status quo in commercial agriculture. Today global agriculture is facing greater problems than ever before in history. This volume edited by Professor Zimdahl provides a range of perspectives and a sustainable framework for managing the continuing threat from weeds to food, fuel and fiber production in the future."

Professor Michael D. K. Owen, Iowa State University, USA

Description:

Weeds remain a major obstacle to increased yields. Past reliance on herbicides is no longer sufficient with increasing concerns about environmental effects, regulation and resistance. This has led to the development of integrated weed management (IWM) which includes herbicides as part of a broader array of cultural, physical and biological methods of control. This volume reviews key research on the use of IWM in sustainable agriculture.

Parts 1 and 2 introduce weed ecology and IWM principles, including surveillance, risk assessment and planning an IWM programme. Part 3 summarises the role of herbicides in IWM whilst Part 4 reviews the range of cultural and physical methods of weed control. The final part of the book surveys biological techniques for weed control.

With its eminent editor and international range of expert authors, this will be a standard reference for weed scientists, the agricultural community and the pesticide industry as well as government and non-governmental agencies supporting a more sustainable agriculture.

Key features:

- Summarises latest research on IWM principles and methods
- Assesses current challenges facing herbicide use
- Detailed review of the range of cultural, physical and biological methods of control available for IWM.

Audience:

Weed scientists; agronomists; farmers; pesticide companies; government and non-governmental agencies supporting a more sustainable agriculture

Editor details:

Bob Zimdahl is Professor Emeritus of Weed Science at Colorado State University, USA. He is a Fellow of the Weed Science Society of America, Western Society of Weed Science, American Society of Agronomy, and former Editor of Weed Science. He has published widely on weed science, including the standard text *Fundamentals of Weed Science*, currently in its fourth edition.

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