1. Record Nr. UNINA9910459275803321

Titolo	Application of uncertainty analysis to ecological risk of pesticides / / editors, William J. Warren-Hicks, Andy Hart
Pubbl/distr/stampa	Boca Raton : , : CRC Press, , 2010
ISBN	0-429-13064-3 1-138-11481-2 1-4398-0735-3
Descrizione fisica	1 online resource (230 p.)
Altri autori (Persone)	Warren-HicksWilliam J HartAndy <1956->
Disciplina	577.27/9015118
Soggetti	Pesticides - Environmental aspects - Mathematical models Ecological risk assessment Probabilities Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front cover; SETAC Publications; Contents; List of Figures; List of Tables; Foreword; Acknowledgments; About the Editors; Workshop Participants and Contributing Authors; Chapter 1. Introduction and Objectives; Chapter 2. Problem Formulation for Probabilistic Ecological Risk Assessments; Chapter 3. Issues Underlying the Selection of Distributions; Chapter 4. Monte Carlo, Bayesian Monte Carlo, and First-Order Error Analysis; Chapter 5. The Bayesian Vantage for Dealing with Uncertainty; Chapter 6. Bounding Uncertainty Analyses Chapter 7. Uncertainty Analysis Using Classical and Bayesian Hierarchical ModelsChapter 8. Interpreting and Communicating Risk and Uncertainty for Decision Making; Chapter 9. How to Detect and Avoid Pitfalls, Traps, and Swindles; Chapter 10. Conclusions; Glossary; Index; Back cover
Sommario/riassunto	While current methods used in ecological risk assessments for pesticides are largely deterministic, probabilistic methods that aim to quantify variability and uncertainty in exposure and effects are attracting growing interest from industries and governments.

Probabilistic methods offer more realistic and meaningful estimates of risk and hence, potentially, a better basis for decision-making. Application of Uncertainty Analysis to Ecological Risks of Pesticides examines the applicability of probabilistic methods for ecological risk assessment for pesticides and explores the