

Pest Risk Modelling And Mapping For Invasive Alien Species Cabi Invasives Series

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Over the past century, the number of species that have been transported to areas outside their native range has increased steadily. New pests and pathogens place biological pressure on valuable resident species, but strict bans may conflict with trading and travel needs. An overview of how the conflict can be managed using pest risk mapping...

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The International Pest Risk Mapping Workgroup acknowledges that advanced training and a 'tool kit' of software packages are needed to produce pest risk maps that are fully fit for purpose. This book is an initial attempt to address those needs. Invited chapters emphasize specific steps and data requirements to guide users through the development of pest risk models and maps, or components thereof.

Pest risk modelling and mapping for invasive alien species.

Buy Pest Risk Modelling and Mapping for Invasive Alien Species (CABI Invasives Series) by Robert C. Venette (ISBN: 9781780643946) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

Pest Risk Modelling and Mapping for Invasive Alien Species ...

1: The Challenge of Modelling and Mapping the Future Distribution and Impact of Invasive Alien Species; 2: Mapping Endangered Areas for Pest Risk Analysis; 3: Following the Transportation Trail to Anticipate Human-mediated Invasions in Terrestrial Ecosystems; 4: Simulation Modelling of Long-distance Windborne Dispersal for Invasion Ecology

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Modelling and mapping spread in pest risk analysis: A ...

Modelling and mapping risks of invasive forest pests Invasive species of forest insects, diseases and plants have threatened Canada ' s forested areas and urban environments for well over a century. Pests such as chestnut blight and Dutch Elm Disease, have had severe impacts on certain native Canadian tree species, in some cases almost eliminating them.

Modelling and mapping - Natural Resources Canada

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101+ Read Book Pest Risk Modelling And Mapping For ...

The International Pest Risk Research Group is focused on improving pest risk modelling and mapping methods through the application and sharing of rigorous, innovative research.

Over the past century, the number of species that have been transported to areas outside their native range has increased steadily. New pests and pathogens place biological pressure on valuable resident species, but strict bans may conflict with trading and travel needs. An overview of how the conflict can be managed using pest risk mapping and modelling, this book uses worked examples to explain modelling and help development of tool kits for assessment.

This text provides instruction on the concepts and application of risk analysis in the field of regulatory plant protection, covering topics such as the background on why and how risk analysis is conducted and specific methods for implementing risk analysis. This book also provides useful exercises and case studies to aid students of plant pathology and crop protection in their absorption of the subject. Equally useful for practitioners, this book is written by experts with a wealth of national and international experience. Students of plant pathology and crop protection as well as practitione.

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This open access book describes the serious threat of invasive species to native ecosystems. Invasive species have caused and will continue to cause enormous ecological and economic damage with ever increasing world trade. This multi-disciplinary book, written by over 100 national experts, presents the latest research on a wide range of natural science and social science fields that explore the ecology, impacts, and practical tools for management of invasive species. It covers species of all taxonomic groups from insects and pathogens, to plants, vertebrates, and aquatic organisms that impact a diversity of habitats in forests, rangelands and grasslands of the United States. It is well-illustrated, provides summaries of the most important invasive species and issues impacting all regions of the country, and includes a comprehensive primary reference list for each topic. This scientific synthesis provides the cultural, economic, scientific and social context for addressing environmental challenges posed by invasive species and will be a valuable resource for scholars, policy makers, natural resource managers and practitioners.

A comprehensive guide to the proactive management of alien plants, synthesising the most current global theory and best management practice.

Plant stresses are serious threats to the sustainability of crop yields accounting for more crop productivity losses than any other factor in rainfed agriculture. Post-harvest losses mean surplus crops do not reach market, affecting the livelihoods of farming families, and too often these families are left with no other option than to eat contaminated stored food. These constraints impact the food security of these farming families as well as the communities and countries in which they live. This book is the demonstration of a clear synergistic effect of stresses, an effect that was unexpectedly as important as either stress applied alone. This book will add to our current knowledge of abiotic stress response in plants and will provide the groundwork necessary to build future strategies for crop enhancement. The fundamental principles that underpin all biotechnology are explained and a full range of examples discussed to show how these principles are applied; from starting substrate to final product. It will be beneficial to both plant breeders and molecular biologists, because it combines the topics of physiology, tolerance genes, and breeding methods. When these topics are presented together, it is easy to compare all aspects of tolerance mechanisms and breeding methods for abiotic stresses. These comparisons are useful to understand which pathways or which genes are important for rendering more tolerance to a certain abiotic stress, and to bring forward new ideas for improving the tolerance. Features • Cover both plant biotic and abiotic stresses • Important factors in managing crops for water stress conditions • Substantially increase the sustainable productivity of smallholder farmers in developing countries • Genetic and biochemical approaches – if those approaches constitute a substantial improvement on current practices.

This book is a printed edition of the Special Issue "Understanding and Managing Emerald Ash Borer Impacts on Ash Forests" that was published in Forests

With climate change and increasing globalisation of trade and travel, the risks presented by invasive pests and pathogens to natural environments, agriculture and economies have never been greater, and are only increasing with time. Governments world-wide are responding to these increased threats by strengthening quarantine and biosecurity. This book presents a comprehensive review of risk-based techniques that help policy makers and regulators protect national interests from invasive pests and pathogens before, at, and inside national borders. Selected from the research corpus of the Centre of Excellence for Biosecurity Risk Analysis at the University of Melbourne, this book provides solutions that reflect scientific rigour coupled with practical, hands-on applications. Focusing on surveillance, stochastic modelling, intelligence gathering, decision making and risk communication, the contents combine the strengths of risk analysts, mathematicians, economists, biologists and statisticians. The book presents tested scientific solutions to the greatest challenges faced by quarantine and biosecurity policy makers and regulators today.

Invasive arthropods cause significant damage in agricultural crops and natural environments across the globe. Potentially threatened regions need to be prepared to prevent new pests from becoming established. Therefore, information on pest identity, host range, geographical distribution, biology, tools for detection and identification are all essential to researchers and regulatory personnel. This book focuses on the most recent invasive pests of agricultural crops in temperate subtropical and tropical areas and on potential invaders, discussing their spread, biology and control.

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