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## Woodland Development

### A Long Term Study of Lady Park Wood

**George Peterken**, formerly Nature Conservancy Council, UK and **Edward Mountford**, Independent Researcher, UK

Lady Park Wood was set aside as a 'natural' (i.e. unmanaged) reserve for ecological research in 1944 and the trees, shrubs and ground vegetation have been recorded in detail ever since. The 70 years of observations now represent one of the largest and most detailed records in Europe of how a woodland develops under the influence of natural factors. The observations have generated a series of papers since 1987 and have contributed to meta-analyses of long-term change across temperate Europe and North America,

but there has never been a general account of the wood as a research reserve, save for articles in British Wildlife in 1995 and 2005.

The main record comprises detailed measurements of 20,000 individual trees and shrubs, from which the performance of populations of oak, beech, ash, limes, etc. can be quantified in detail, and the development of a near-natural wood and the factors influencing it can be detailed.

The book also makes reference to woods elsewhere in Britain and Europe. It mainly deals with populations of native tree species, individually and collectively. It also broadens out to consider the implications for nature conservation, re-wilding and remoteness, near-to-nature forestry, monitoring and long-term ecological research, the meaning of natural woodland, and even aspects of woodland history.

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## Temperate Agroforestry Systems

Edited by **Andrew M Gordon**, University of Guelph, Canada, **Steven M Newman**, BioDiversity International Ltd, UK and **Brent Coleman**, University of Guelph, Canada



Agroforestry is a land use system that allows for the concurrent production of trees and agricultural crops from the same piece of land. It has a rich history of development and has been practised in some parts of the world for more than 6,000 years. The first edition of *Temperate Agroforestry Systems* concentrated on those areas within the temperate zones where the greatest advances, adoptions and modifications had taken place to that time: North and South America, China, Australia, New Zealand, the United Kingdom and Continental

Europe. The fully updated new edition introduces the reader to other regions where temperate agroforestry research and development are contributing to sustainable food production systems, with new chapters on India, Chile and Scandinavia and two previous chapters, on North America and Continental Europe, being split into separate chapters for Canada and the United States, and the United Kingdom and Europe, respectively.

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## Invasive Plant Species of the World

### A Reference Guide to Environmental Weeds

**Ewald Weber**, University of Potsdam, Germany

Since the publication of the first edition of this book in 2003, the status of many important invasive plants around the world has changed dramatically. Species have extended their ranges, new literature has been accumulated, and control methods have been improved. Research on some plant invaders has also focused on the species' ecology and impacts, confirming that invasive plants continue to pose serious threats to species and ecosystems. Given their range expansions and introduction via international trade, these problems will only become more serious in the future.

Providing the latest information on the most important invasive plants, this new edition:

- Contains 50 new species, chosen for their impacts on ecosystems and native species
- Reviews the most significant new publications on ecology and species management
- Updates introduced, invasive and native ranges, providing an easy-reference, full-colour map for each species
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Including colour images of each species, this up-to-date reference guide on the most important plant invaders is an invaluable tool for both researchers and policy makers.

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## Aphids as Crop Pests, 2nd Edition

Edited by **Helmut van Emden**, University of Reading, UK and **Richard Harrington**, Rothamsted Research, Harpenden, UK

Aphids are among the major global pest groups, causing serious economic damage to many food and commodity crops in most parts of the world. This revision and update of the well-received first edition published ten years ago reflects the expansion of research in genomics, endosymbionts and semiochemicals, as well as the shift from control of aphids with insecticides to a more integrated approach imposed by increasing resistance in the aphids and government restrictions on pesticides. The book remains a comprehensive and up-to-date reference work on the biology of aphids, the various methods of controlling them and the progress of integrated pest management as illustrated by ten case histories.

Helmut van Emden is Emeritus Professor of Horticulture at the University of Reading, UK. He has researched on aphids for over 50 years and has wide international experience, including in the tropics.

Richard Harrington retired in 2015 as Head of the Rothamsted Insect Survey, with which he worked for 36 years on aphid monitoring and forecasting. He led the EU project "EXAMINE" (Exploitation of Aphid Monitoring In Europe) which brought together colleagues involved in aphid monitoring throughout Europe and beyond.

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## Integrated management of Insect Pests on Canola and other Brassica Oilseed Crops

Edited by **Gadi V P Reddy**, Montana State University, USA

This 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*.

This 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.

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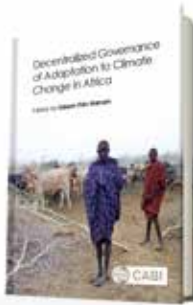
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## Decentralized Governance of Adaptation to Climate Change in Africa

Edited by **Esbern Friis-Hansen**, Danish Institute for International Studies, Denmark

Based on fieldwork carried out in Uganda, Zambia, Tanzania and Ghana, this book shows how local governance institutions change the way that they work as they engage with climate change adaptation initiatives, and how the tendency of power and finance to be centralised at national level reduces the effectiveness and efficiency of real change on the ground.

The evidence of these studies is that central government and international projects are neither cost effective nor institutionally sustainable; what is needed is devolution of power and resources to the local level. It's time to turn the old mantra on its head - to think globally but act locally.

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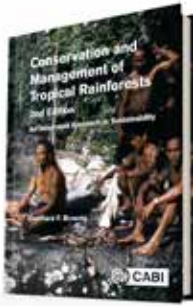
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## Conservation and Management of Tropical Rainforests

### An integrated approach to sustainability

**Eberhard F Bruenig**, Formerly of University of Hamburg, Germany

This new edition of Conservation and Management of Tropical Rainforests applies the large body of knowledge, experience and tradition available to those who study tropical rainforests. Revised and updated in light of developments in science, technology, economics, politics, etc. and their effects on tropical forests, it describes the principles of integrated conservation and management that lead to sustainability, identifying the unifying phenomena that regulate the processes within the rainforest and that are fundamental to the ecosystem viability. Features of

the natural forest and the socio-cultural ecosystems which can be mimicked in the design of self-sustaining forests are also discussed. A holistic approach to the management and conservation of rainforests is developed throughout the book. The focus on South-East Asian forestry will be widened to include Africa and Latin America. Recent controversial issues such as biofuels and carbon credits with respect to tropical forests and their inhabitants will be discussed. This book is a substantial contribution to the literature, it is a valuable resource for all those concerned with rainforests.

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## Forest Hydrology

### Processes, Management and Assessment

Edited by **Devendra Amatya**, USDA Forest Service, USA, **Thomas Williams**, Clemson University, USA, **Leon Bren**, The University of Melbourne, Australia and **Carmen d Jong**, University of Savoy, France

Forests cover approximately 26% of the world's land surface area and represent a distinct biotic community. They interact with water and soil in a variety of ways, providing canopy surfaces which trap precipitation and allow evaporation back into the atmosphere, thus regulating how much water reaches the forest floor as through fall, as well as pull water from the soil for transpiration.

The discipline "forest hydrology" has been developed throughout the 20th century. During that time human intervention in natural landscapes has increased, and land use and management practices have intensified. This book:

- Presents cutting edge thinking and assessments in forest hydrology across all latitudes and terrains, including state-of-the-art modelling techniques and methodologies
- Describes the latest challenges facing forest hydrology, such as increased occurrence of disturbance, due to extreme floods, drought, disease, and fire, potentially caused by climate change
- Is written by an internationally renowned team of scientists, engineers, and managers to give a well-rounded review of the subject

The book will be useful for graduate students, professionals, land managers, practitioners, and researchers with a good understanding of the basic principles of hydrology and hydrologic processes.

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## Silviculture of Trees Used in British Forestry

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Edited by **Peter Savill**, Chairman of the Trustees of the Future Trees Trust

Fully updated throughout, this new edition describes the silvicultural characteristics of trees commonly grown in the UK, including all important native species and a selection of some of the most significant exotics. With details of climatic zones, soils, productivity, pests and diseases, this book provides concise but detailed information regarding the establishment and management of forests. Detailed drawings of leaves and fruits are also provided to aid with identification, making

this a useful resource for students and forestry professionals.

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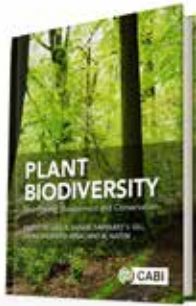
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## Plant Biodiversity

### Monitoring, Assessment and Conservation

Edited by **Abid A Ansari**, University of Tabuk, Saudi Arabia, **Sarvajeet Singh Gill**, MD University, India, Zahid Khorshid Abbas, University of Tabuk, Saudi Arabia, **M Naeem**, Aligarh Muslim University, India

Results of regular monitoring of the species diversity and structure of plant communities is used by conservation biologists to help understand impacts of perturbations caused by humans and other environmental factors on ecosystems worldwide. Changes in plant communities can, for example, be a reflection of increased levels of pollution, a response to long-term climate change, or the result of shifts in land-use practices by the human population.

This book presents a series of essays on the application of plant biodiversity monitoring and assessment to help prevent species extinction, ecosystem collapse, and solve problems in biodiversity conservation. It has been written by a large international team of researchers and uses case studies and examples from all over the world, and from a broad range of terrestrial and aquatic ecosystems.

The book is aimed at any graduate students and researchers with a strong interest in plant biodiversity monitoring and assessment, plant community ecology, biodiversity conservation, and the environmental impacts of human activities on ecosystems.

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- covers key information on how climate change and urban pests affect human health
- includes coverage of the impacts of natural disasters such as flooding looks at issues which could influence the management of pests
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Presenting up-to-date knowledge, this book is an essential resource for researchers in urban pests, entomology and public health, as well as scientists, environmentalists and policy makers involved in studies on climate change.

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## Keys to the Tropical Fruit Flies of South-East Asia

**Richard Drew**, and **Meredith C Romig**,  
Griffith University, Australia

Fruit flies are a major issue facing horticultural producers, and as global warming and species migration become more prevalent issues there is an urgent need for easy identification of these pests. A companion volume to the recently published "Tropical Fruit Flies of South-East Asia (Tephritidae: Dacinae)", this book provides fully-illustrated keys for the identification of all currently-known Dacinae fruit flies. Focusing on south-east Asian fauna, it covers areas including India, Bhutan, Nepal, Sri Lanka, Myanmar, China, Taiwan, Japan, the Philippines,

Palau, Vietnam, Thailand, Singapore, Malaysia and Indonesia. This major new reference work is produced by experts with over 80 years' combined research experience, and through simple identification information can help prevent these major pest species being introduced to new geographical areas. Of particular value to agriculture and quarantine officers responsible for the detection of new incursions, where early detection is both economical and essential to guarantee eradication, this book is also a valuable resource for researchers and students of agriculture and entomology.

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## The Handbook of Mites of Economic Plants

### Identification, Bio-ecology and Control

Vincenzo Vacante, Mediterranean University, Italy

Mites pose a serious problem to plants worldwide, attacking crops and spreading disease. When mites damage crops of economic importance the impacts can be felt globally. Mites are among the most diverse and successful of invertebrates, with over 45,000 described species, with many more thousands to be discovered. They are responsible for a significant portion of the losses of crops for food, fibre, industry and other purposes, and require expensive and often controversial pest control measures. Understanding these mites is vital for

entomologists, pest researchers, agronomists and food producers.

Knowledge of mite pests helps to inform control strategies and optimize the production of economic plants and the agrarian economy. This encyclopedia provides a thorough coverage of the mites and the problems they cause to crops, yet it is easily searchable, organised by mite species and subdivided into helpful headings. It takes a worldwide view of the issue of mites injurious to economic plants, describing mites prevalent in different regions and discussing control methods appropriate in different environments.

This book provides an encyclopaedic reference to the major mites, described by family in terms of their internal and external morphology, bio-ecology and family systematics. Methods of mite collection and laboratory study is described, as well as species diagnostic characteristics, worldwide distribution, host plants, identification by the type of damage they cause and control strategies, including chemical and biological intervention and integrated pest management measures. Mites of the following families are included: (Eriophyoidea, Tarsonemidae, Tuckerellidae, Tenuipalpidae, Tetranychidae, Acaridae, Penthalidae).

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### Theory and Practice

**Sara Finley**, Water Management Consultant, Canada

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- outlines the theoretical underpinnings of sustainable water management in agriculture,
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- provides schematic diagrams, and resources for further reading to help readers put theory into practice

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