

# FORESTRY

Key resources in forestry from CSIRO PUBLISHING



## Forest Conservation Genetics Principles and Practice

Andrew Young, David Boshier & Timothy Boyle

*Forest Conservation Genetics* draws together much previously uncollected information relevant to managing and conserving forests. The content emphasises the importance of conserving genetic diversity in achieving sustainable management.

Each chapter is written by a leading expert and has been peer reviewed. Readers without a background in genetics will find the logical sequence of topics allows easy understanding of the principles involved and how those principles may impact on day-to-day forest planning and management decisions.

■ 2000 • CSIRO PUBLISHING • 0643062602  
366 pp • illustrated • hardback & CD-ROM



\$150.00

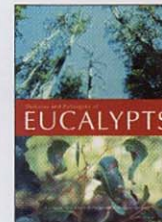
## Diseases and Pathogens of Eucalypts

PJ Keane, GA Kile, FD Podger & BN Brown

Over the last fifty years, there has been an increasing recognition that eucalypts are vulnerable to a wide range of diseases. They have suffered destructive epidemics, particularly of dieback caused by the cinnamon fungus in native forests, of foliar diseases and cankers in plantations, and of dieback of remnant trees on agricultural and grazing land.

This has stimulated intensive research into the causes and management of diseases of the eucalypts. This work represents a comprehensive review of our current knowledge of the health and diseases of eucalypts.

■ 2000 • CSIRO PUBLISHING • 0643065237  
576 pp • colour illustrations • hardback



\$165.00

## International Journal of Wildland Fire

Published on behalf of the International Association of Wildland Fire.

*International Journal of Wildland Fire* is the world's only research journal devoted exclusively to topics related to wildfire. It publishes new and significant work from researchers working on fire-prone regions around the world and covers all aspects of fire behaviour, ecology, suppression, modelling and control.

■ ISSN 1049-8001 • Volume 13 • 2004 • 4 issues per year  
[www.publish.csiro.au/journals/ijwf](http://www.publish.csiro.au/journals/ijwf)



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## Towards Forest Sustainability

David Lindenmayer & Jerry Franklin (Eds.)

CRES, Australian National University /  
University of Washington

*Towards Forest Sustainability* is a collection of practical essays by some of the world's leading forest ecologists and managers from the United States of America, Canada, Finland, Sweden, Australia and New Zealand. The authors describe the changes that have taken place in forest management – highlighting what worked, what didn't, and the lessons that have been learned.

This unique set of essays documents the drivers of the change in the logging industry and the resulting outcomes. It provides real-world insights from an international perspective into government policy, industry concerns, and conservation and biodiversity issues.

### Contents

Challenges to temperate forest stewardship—focusing on the future; Are forests different as a policy challenge?; Towards ecological forestry in Tasmania; Integrating wildlife conservation and wood products in Victorian montane ash forests; The role of large mammals in US forests; Resolving forest management issues in British Columbia; Finnish forestry in transition—finding ways to sustainable forest management; The role of science in the changing forestry scene in the USA; Forest biodiversity management—the Swedish model; Sustainable forest management in New Zealand; A new forest and wood industry policy framework for Australia; Transitions to ecological sustainability in forests—a synthesis.

■ May 2003 • CSIRO PUBLISHING • 0643068325  
244 pp • illustrated • paperback

**\$39.95**

## Experimental Design and Analysis for Tree Improvement

SECOND EDITION

ER Williams, AC Matheson & CE Harwood

CSIRO Forestry and Forest Products

This book provides a set of practical procedures to follow when planning, designing and analysing tree improvement trials. Using many fully-worked examples, it outlines how to:

- Design field, glasshouse and laboratory trials
- Efficiently collect data and construct electronic data files



## Australia Burning

Fire Ecology, Policy and Management Issues

G Cary, D Lindenmayer, S Dovers (Eds.)

Australian National University

The phenomenon of fire in the Australian landscape traverses many interests and disciplines. At a national level, there is an urgent need for the integration of both the natural and social sciences in the formulation of public policy.

*Australia Burning* draws together these issues, under the themes:

- Ecology and the environment
- Fire behaviour and fire regime science
- People and property
- Policy, institutional arrangements and legal framework
- Indigenous land and fire management

The book examines some of the key questions that relate to the ecology, prediction and management of fire, urban planning, law, insurance, and community issues, including indigenous and non-indigenous concerns. It looks at what we need to know to inform public policy, given the present risks and uncertainty, and explores the avenues for closer integration between science, policy and the community.

*Australia Burning* will provide an ideal reference for scientists, land managers, policy makers, students and interested community members.

■ October 2003 • CSIRO PUBLISHING • 0643069267  
240 pp • illustrated • paperback

**\$39.95**

- Pre-process data, screening for data quality and outliers
- Analyse data from single and across-site trials using either GenStat or SAS
- Interpret the results from statistical analyses

The authors address the many practical issues often faced in forest tree improvement trials and describe techniques that will give conclusive results with the minimum expense. The techniques provided are applicable to the improvement of not only trees, but to crops in general.

■ 2002 • CSIRO PUBLISHING • 0643062599  
220 pp • colour illustrations • paperback

**\$85.00**



## EUCLID

Eucalypts of Southern Australia

SECOND EDITION

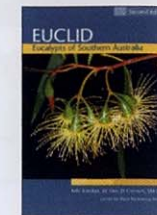
MIH Brooker, AV Slee, JR Connors & SM Duffy

The second edition of *EUCLID* is an interactive identification and information system for all southern Australian eucalypts. Covering more than two-thirds of the species, *EUCLID Second Edition* includes the species in southern Western Australia and western South Australia as well as those south-eastern species covered in the first edition.

New features in the Second Edition:

- An additional 366 taxa, a total of 690 taxa
- Now more than 6000 colour images
- Photographs of seeds are included for all species

■ 2002 • CSIRO PUBLISHING • 0643068368 • CD-ROM & manual **\$110.00**



## Wildlife, Fire & Future Climate

A Forest Ecosystem Analysis

B Mackey, D Lindenmayer, M Gill, M McCarthy & J Lindsay

All of Earth's ecosystems now face the spectre of the accelerated greenhouse effect and rates of change in climatic regimes that have hitherto been unknown. In addition, multiple use forestry – where forests are managed to provide for both a supply of wood and the conservation of biodiversity – can change the floristic composition and vegetation structure of forests with significant implications for wildlife habitat.

*Wildlife, Fire and Future Climate* explores these themes through a landscape-wide study of refugia and future climate in the tall, wet forests of the Central Highlands of Victoria. It represents a model case study for the kind of integrated investigation needed throughout the world in order to deal with the potential response of terrestrial ecological systems to global change. The analyses presented in this book represent one of the few ecosystem studies ever undertaken that has attempted such a complex synthesis of fire, wildlife, vegetation, and climate.

■ 2002 • CSIRO PUBLISHING • 0643067566  
196 pp • colour illustrations • paperback

**\$80.00**

