

Managing Australia's Pest Animals

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Managing Vertebrate Pests CSIRO PUBLISHING

Camera trapping in wildlife management and research is a growing global phenomenon. The technology is advancing very quickly, providing unique opportunities for collecting new biological knowledge. In order for fellow camera trap researchers and managers to share their knowledge and experience, the First International Camera Trapping Colloquium in Wildlife Management and Research was held in Sydney, Australia. Camera Trapping brings together papers from a selection of the presentations at the colloquium and provides a benchmark of the international developments and uses of camera traps for monitoring wildlife for research and management. Four major themes are presented: case studies demonstrating camera trapping for monitoring; the constraints and pitfalls of camera technologies; design standards and protocols for camera trapping surveys; and the identification, management and analyses of the myriad images that derive from camera trapping studies. The final chapter provides future directions for research using camera traps. Remarkable photographs are included, showing interesting, enlightening and entertaining images of animals 'doing their thing'.

Report of the National Taskforce on the Prevention and Management of Marine Pest Incursions CABI

Across the world, cats are loved as pets or are kept or tolerated for their role in controlling some animal pests. But cats, both pets and feral, also kill many native animals and this toll can be enormous. Cats have been remarkably successful in Australia, spreading pervasively across the continent and many islands, occurring in all environments, and proving to be adept and adaptable hunters. A large proportion of Australia's distinctive fauna is threatened and recent research highlights the significant role that cats play in the decline and extinction of native species. Cats in Australia brings this research together, documenting the extent to which cats have subverted, and are continuing to subvert, Australia's biodiversity. But the book does much more than spotlight the impacts of cats on Australian nature. It describes the origins of cats and their global spread, their long-standing and varying relationship with people, their global impacts and their ecology. It also seeks to describe the challenge of managing cats, and the options available to constrain their impacts.

Pest Animals in Australia CRC Press

Part of the Zoological Society of London's Conservation Science and Practice Series, Applied Population and Community Ecology evaluates theory in population and community ecology using a case study of feral pigs, birds and plants in the high country of south-eastern Australia. In sequence, the book reviews the relevant theory and uses long-term research over a quarter of a century on the population ecology of feral pigs and then community ecology of birds and plants, to evaluate the theory. The book brings together into one volume, research results of many observational, experimental and modelling studies and directly compares them with those from related studies around the world. The implications of the results for future wildlife management are also discussed. Intended readers are ecologists, graduate students in ecology and wildlife management and conservation and pest managers.

Community Pest Management in Practice CSIRO PUBLISHING

This volume affirms how comparative psychology can help confront global environmental problems by analyzing and comparing the behaviors of humans and animals. This often complex relationship is clarified and given fresh insight as each paper in the collection examines some aspect of that relationship as it pertains to the ecological concerns of Australia. Data reported from aboriginal sources trace the development of the behaviors of many native species with a respect for indigenous people's knowledge and technology regarding their natural resources. The study's commitment to the renewal of environmental stability is far-reaching as it finds clues to the nature of a population's values and illustrates the need for diverse peoples to learn from each other in order to survive.

Urban Pest Management in Australia Springer Science & Business Media

This is the first introductory text to deal with the problems caused by insects as pests in Australian agriculture and related primary industry, and the use of insects to combat pests such as insects and weeds. It emphasizes Australian examples throughout and is designed specifically to reflect traditional and recent developments associated with pest management in Australia and other countries. The development of integrated pest management is a central theme, but chapters are provided on all major facets of pest control, with accounts of their development, importance and contributions to current management strategy and practice. Each chapter concludes with suggestions for further reading and the most recent references are cited to give students, applied entomologists, researchers and agriculturists the most current and comprehensive information available.

Trapping of Small Organisms Moving Randomly CSIRO PUBLISHING

Across the world, cats are loved as pets or are kept or tolerated for their role in controlling some animal pests. But cats, both pets and feral, also kill many native animals and this toll can be enormous. Cats have been remarkably successful in Australia, spreading pervasively across the continent and many islands, occurring in all environments, and proving to be adept and adaptable hunters. A large proportion of Australia's distinctive fauna is threatened and recent research highlights the significant role that cats play in the decline and extinction of native species. Cats in Australia brings this research together, documenting the extent to which cats have subverted, and are continuing to subvert, Australia's biodiversity. But the book does much more than spotlight the impacts of cats on Australian nature. It describes the origins of cats and their global spread, their long-standing and varying relationship with people, their global impacts and their ecology. It also seeks to describe the challenge of managing cats, and the options available to constrain their impacts.

Invasive Species and Biodiversity Management CSIRO PUBLISHING

Pest animals are but one of many factors that influence the desired outcome from

managing natural resource based systems, whether for production or conservation purposes. Others include diseases, weeds, financial resources, weather and fire management. To be effective, an integrated and systematic approach is required, and the principles and strategic approach outlined in this book can also be used to plan and manage the damage due to other factors. Managing Australia's Pest Animals includes case studies of successful and unsuccessful pest management strategies and covers a range of topics, including the history of pest management, current best practice principles, and guidelines for planning and applying strategic pest management approaches to effectively reduce pest damage. This book is the first clear and comprehensive guide to best practice pest management in Australia and will benefit students and trainers of pest managers, landholders, people involved in natural resource management, and industry and government pest management staff. This book will be of great benefit to students and trainers of pest managers, landholders, pest management staff, or volunteers working in natural resource management, including private and public land managers, parks and wildlife staff, pest management agencies, local councils, Landcare and catchment management groups and private pest contractors.

Ecology, Conservation and Management of Wild Pigs and Peccaries Cambridge University Press

Australia's introduced vertebrate pest species cost at least \$1 billion annually in economic, environmental and social impacts. The Guide to Introduced Pest Animals of Australia is a comprehensive, practical guide to 60 introduced pest animal species present in Australia, including 27 mammals, 18 birds, nine freshwater fish, two amphibians and four reptiles. It contains descriptive information to identify each species in the field, including distinctive physical characteristics, size, weight, colouration, diet, breeding behaviour, habitat preferences, and information about footprints, dung, scats and audible animal calls. Each species profile is accompanied by practical management information, maps and high-quality photographs – allowing readers to learn about pest species in their local area, what problems they might cause, and what control options exist for management. This guide also contains a number of emerging high-risk pest species that may pose a significant threat to our natural environment, economy, agriculture and human health. Whether you are a farmer, natural resource manager, public land manager, pest controller, teacher, student, field naturalist or wildlife ecologist, this easy-to-use guide will help you identify Australia's most significant introduced pest animals in your local area.

Applied Population and Community Ecology Academic Press

Horse Pasture Management begins with coverage of the structure, function and nutritional value of plants, continuing into identification of pasture plants. Management of soil and plants in a pasture is covered next, followed by horse grazing behavior, feed choices of horses, management of grazing horses, and how to calculate how many horses should be grazing relative to land size. Management of hay and silage are included, since year-round grazing is not possible on many horse farms. A number of chapters deal with interactions of a horse farm with the environment and other living things. As an aid in good pasture management, one chapter explains construction and use of fencing and watering systems. Contributions are rounded out with a chapter explaining how the University of Kentucky helps horse farm managers develop their pasture management programs. The purpose of the book is to help people provide a better life for horses Provides the basic principles of pasture management for those involved in equine-related fields and study Covers a variety of strategies for managing the behavior, grouping, environmental, and feeding needs of grazing horses to ensure high levels of welfare and health Includes information on environmental best practices, plant and soil assessment, and wildlife concerns Explains pasture-related diseases and toxic plants to be avoided Includes links to useful resources and existing extension programs

Biological Control Springer

Pest animals are just one of many factors that influence the desired outcome from managing natural resource based systems, whether for production or conservation purposes. Other factors include diseases, weeds, financial resources, weather and fire management. To be effective, an integrated and systematic approach is required, and the principles and strategic approach outlined in this book can also be used to plan and manage the damage due to other factors. Managing Australia's Pest Animals includes case studies of successful and unsuccessful pest management strategies and covers a range of topics, including the history of pest management, current best practice principles, and guidelines for planning and applying strategic pest management approaches to effectively reduce pest damage. This book is the first clear and comprehensive guide to best practice pest management in Australia and will benefit students and trainers of pest managers, landholders, people involved in natural resource management, and industry and government pest management staff. Features: * Accurate and highly credible information, based on the most up-to-date research. * Revisits and refines the principles that underpin strategic management of the damage due to pest animals. * Strongly supports the expected knowledge base of the revised VET Conservation and Land Management qualifications for managing pests. * Structured in a logical format, with extensive links to available resources, a glossary that explains key terms and concepts, and detailed figures that will aid both students and seasoned professionals.

Proceedings - Vertebrate Pest Conference UNSW Press

The invasive species problem will become increasingly important in the years to come. Trade, travel and tourism are rapidly globalized, and border controls are reduced. This affects natural ecosystems in which aggressive invaders may have disastrous effects. 'New' diseases affect human, animal and crop health. The Convention on Biological Diversity presents national authorities with a tall order in coping with this problem. For the first time in one volume, this book presents both ecological, biological and epidemiological aspects of invasive species, as well as the problem of disease organisms for agriculture and human health. The book constitutes a comprehensive background to the global strategy for managing invasive alien species which now is being developed by SCOPE and UNEP. The book is well suited for management staff in various environmental, economic and social sectors. It is essential for university and college teachers, researchers in ecology, natural resources management, and social sciences, as well as M.Sc. and Ph.D. students.

Australian Journal of Zoology CSIRO PUBLISHING

The European red fox is recognised as one of the most devastating vertebrate pests in Australia causing significant impacts to biodiversity and agricultural production. Fox management strategies rely heavily on poisoning using baits impregnated with sodium fluoroacetate (1080). Factors such as the ability of foxes to locate bait, palatability and toxicity of bait, pattern and density of bait distribution, and cost/benefits of specific use patterns all affect the overall efficiency of management programs. It is

essential to examine and refine all such factors to manage the damaging impacts of this pest species. This book examines the problems associated with management of the fox in south-eastern Australia, highlights deficiencies in best-practice baiting techniques, and provides recommendations to improve current management strategies and guide future research. It should be especially useful to students, managers, scientists and policy-makers in the wildlife management field, or anyone else who may utilise baiting to manage the impacts of pest animals.

Cats in Australia CSIRO PUBLISHING

Wild pigs inhabit vast areas in Europe, Southern Asia and Africa, and have been introduced in North and South America, while feral pigs are widespread in Australia and New Zealand. Many wild pig species are threatened with extinction, but Eurasian wild boar populations, however, are increasing in many regions. Covering all wild pig and peccary species, the Suidae and Tayassuidae families, this comprehensive review presents new information about the evolution, taxonomy and domestication of wild pigs and peccaries alongside novel case studies on conservation activities and management. One hundred leading experts from twenty five countries synthesise understanding of this group of species; discussing current research, and gaps in the knowledge of researchers, conservation biologists, zoologists, wildlife managers and students. This beautifully illustrated reference includes the long history of interactions between wild pigs and humans, the benefits some species have brought us and their role and impact on natural ecosystems.

Camera Trapping Kluwer Academic Pub

A survey of the 25 exotic mammal species that have become established in Australia, including those deliberately introduced and those, such as rats and mice, that came here by accident. Maps and photographs accompany the text which describes how the pest species were introduced and gives details of their habitats, behaviour and resource status. Includes references and an index.

Cats in Australia University of Chicago Press

Arising from a conference held at the University of Sydney in 1993, this collection of 35 papers addresses topics such as habitat loss, degradation and pollution of water resources, weeds and feral animals, and commercial use of native biota. Also discusses the role of government and non-government agencies in conservation. Includes 25 colour plates, references and an index. The editors work in the Environmental Survey and Research Division of the NSW National Parks and Wildlife Service.

A Model for Assessing the Relative Humaneness of Pest Animal Control Methods Greenwood Publishing Group

This book comprises 13 chapters discussing pest management and phytosanitary trade barriers; agricultural warfare and bioterrorism using invasive species; managing risk of pest introduction; and postharvest phytosanitary disinfection.

Australian Agriculture Springer

The invasive species problem will become increasingly important in the years to come. Trade, travel and tourism are rapidly globalized, and border controls are reduced. This affects natural ecosystems in which aggressive invaders may have disastrous effects. 'New' diseases affect human, animal and crop health. The Convention on Biological Diversity presents national authorities with a tall order in coping with this problem. For the first time in one volume, this book presents both ecological, biological and epidemiological aspects of invasive species, as well as the problem of disease organisms for agriculture and human health. The book constitutes a comprehensive background to the global strategy for managing invasive alien species which now is being developed by SCOPE and UNEP.

One Welfare in Practice CSIRO PUBLISHING

"Australian crops are damaged by mice, black rats and four species of native rodents. There has been a mouse plague somewhere in the Australian grain belt every four years on average since 1900. In the last twenty years plagues have increased to one every year or two. The 1993-94 plague in south-east Australia cost the grains industry an estimated \$65 million. Rat damage to Queensland sugarcane crops amounts to \$2-9 million annually. Rodents also have significant social and environmental impacts and can spread disease to people and livestock." -- back cover.

Wildlife in Australia UNSW Press

Australia's introduced vertebrate pest species cost at least \$1 billion annually in economic, environmental and social impacts. The Guide to Introduced Pest Animals of Australia is a comprehensive, practical guide to 60 introduced pest animal species present in Australia, including 27 mammals, 18 birds, nine freshwater fish, two amphibians and four reptiles. It contains descriptive information to identify each species in the field, including distinctive physical characteristics, size, weight, colouration, diet, breeding behaviour, habitat preferences, and information about footprints, dung, scats and audible animal calls. Each species profile is accompanied by practical management information, maps and high-quality photographs – allowing readers to learn about pest species in their local area, what problems they might cause, and what control options exist for management. This guide also contains a number of emerging high-risk pest species that may pose a significant threat to our natural environment, economy, agriculture and human health. Whether you are a farmer, natural resource manager, public land manager, pest controller, teacher, student, field naturalist or wildlife ecologist, this easy-to-use guide will help you identify Australia's most significant introduced pest animals in your local area.

Animals John Wiley & Sons

The types of wildlife damage are many and varied, and can be costly. Until now, there has been little effort to identify and evaluate generalities across that broad range of species, methods and topics. Wildlife Damage Control promotes principle-based thinking about managing impact. It documents and discusses the key principles underlying wildlife damage and its control, and demonstrates their application to real-life topics – how they have been used in management actions or how they could be tested in the future. It synthesises the wide but diffuse literature dealing with the impacts of vertebrate pests and encourages readers to adopt a more theoretical framework for thinking about pest impacts and ways to manage them. The book is organised around key principles that apply across species, rather than looking at individual species, and is damage-based not pest animal-based. Within each chapter there are exercises designed to help readers learn and evaluate key principles. Conservation biologists, ecologists and others involved in wildlife management will find the sections covering principles in biodiversity conservation, of production such as agriculture, and in human and animal health of real value.