

European Ungulates And Their Management In The 21st Century

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Biological Invasions in Changing Ecosystems - João Canning-Clode
2015-01-01

When organisms are deliberately or

accidentally introduced into a new ecosystem a biological invasion may take place. These so-called 'invasive species' may establish, spread and

ecologically alter the invaded community. Biological invasions by animals, plants, pathogens or vectors are one of the greatest environmental and economic threats and, along with habitat destruction, a leading cause of global biodiversity loss. In this book, more than 50 worldwide invasion scientists cover our current understanding of biological invasions, its impacts, patterns and mechanisms in both aquatic and terrestrial systems.

Human-Wildlife Interactions -

Beatrice Frank 2019-05-02

Presents solutions to turn conflict into tolerance and coexistence, with an emphasis on the human dimensions of human-wildlife interactions.

Rewilding - Nathalie Pettorelli

2019-01-31

Discusses the benefits and risks, as well as the economic and socio-political realities, of rewilding as a novel conservation tool.

Problematic Wildlife - Francesco M.

Angelici 2015-12-18

This book provides insight into the instances in which wildlife species can create problems. Some species trigger problems for human activities, but many others need humans to save them and to continue to exist. The text addresses issues faced by economists and politicians dealing with laws involving actions undertaken to resolve the problems of the interaction between humans and wildlife. Here, the words 'problematic species' are used in their broadest sense, as may be appreciated in the short introductions to the various sections. At times, the authors discuss special cases while always extending the discussion into a more general and broad vision. At others, they present real cutting-edge analysis of ecological topics and issues. The book will be of interest to biologists, ecologists and wildlife managers involved in

research on wildlife, parks, and environmental management, as well as to government departments and agencies, NGOs and conservation wildlife organizations. Even those in contact with nature, such as hunters, herders, and farmers, will be able to find a great deal of important information. Specific case studies are selected from among the most significant and prevalent cases throughout the world. A total of 26 papers have been selected for this book, written by zoologists, biologists and ecologists. Many have an interdisciplinary approach, with contributions by economists, criminologists, technical specialists, and engineers.

Forest Systems - 2014

Forest Microbiology - Fred O. Asiegbu
2022-07-28

Forest Microbiology: Tree Diseases and Pests, Volume Three in the *Forest Microbiology* series, provides an

overview of major disease agents of trees, including viruses, phytoplasma, bacteria, fungi, nematodes and major insect pests. With a strong emphasis on genetics, biochemistry, physiology, evolutionary biology and population dynamics of the organisms involved, this book provides a comprehensive understanding on the health of forests. Sections cover important pest threats such as bark beetles, emerald ash borer, coffee borers, leaf cutting ants, cocoa mirids, and more. This volume highlights a range of emerging diseases of forest trees in temperate and tropic regions as well as information on habitats. Forest trees play crucial roles not only for mitigating effects of the climate change but also for their considerable economic and ecological value. Forest trees are equally vital as an alternative bioenergy source and play important roles in pollution abatement and the maintenance of

biodiversity. Timber and its associated products from forest trees contribute substantially to the revenue generation of many countries of the world. Includes case studies of complex diseases of economically important trees Highlights novel approaches to managing tree pests and diseases in a changing climate Focuses on the many functions of microbial disease agents of trees Addresses major insect pests of boreal, temperate and tropical trees Satellite Remote Sensing for Conservation Action - Allison K. Leidner 2018-08-16 Explains how satellite remote sensing informs and helps deliver successful conservation management through case studies, which highlight practitioner experience.

Advances in Ungulate Ecology - R. Terry Bowyer 2021-06-28

Horns, Tusks, and Flippers - Donald R. Prothero 2002

Since the extinction of the dinosaurs, hoofed mammals have been the planet's dominant herbivores. Native to all continents except Australia and Antarctica, recent paleontological and biological discoveries have deepened understanding of their evolution. This text reveals their evolutionary history.

Wildlife Production Systems - Robert J. Hudson 1989-06

This book, first published in 1989, examines the controversial position of commercial utilisation in relation to wildlife conservation. Production of large mammals has earned respectability as an agricultural strategy and its evaluation has been listed as a priority requirement in the World Conservation Strategy. However, many authorities question whether wildlife production is a viable economic and environmental strategy, and suggest that it runs counter to its claimed purpose. This

book evaluates this controversy by chronicling the changing role of wildlife and by reflecting on the implications of these trends. The book should be of interest to people both applauding and deploring the use of wildlife in this economic role.
Wildlife Research - 2015

Invasive Species and Human Health - Giuseppe Mazza 2018-07-13
Invasive alien plants and animals are known for their disruption of ecosystems and threat to biodiversity. This book highlights their major impact on human health. This includes not only direct effects through contact with the species via bites, wounds and disease, but also indirect effects caused by changes induced in ecosystems by invasive species, such as more water hyacinth increasing mosquito levels and thereby the potential for malaria. Covering a wide range of case studies from different taxa (animals and

plants), and giving an overview of the diverse impacts of invasive species on health in developed and developing countries, the book is a significant contribution that will help in prioritizing approaches to controlling invasive species and mitigating their health effects. It covers invasive plants, marine species, spiders and other arachnids, ticks and dust mites, insects, mosquitos and other diptera, freshwater species (invertebrates and fishes), amphibians and reptiles, birds and mammals. The broad spectrum of the analyzed case studies will ensure the appeal of the book to a wide public, including researchers of biological invasions, doctors, policy-makers and managers, and students of invasive species in ecology, animal and plant biology and public health medicine.

Deer and People - Naomi Sykes
2014-09-30
Deer have been central to human

cultures throughout time and space: whether as staples to hunter-gatherers, icons of Empire, or the focus of sport. Their social and economic importance has seen some species transported across continents, transforming landscape as they went with the establishment of menageries and park. The fortunes of other species have been less auspicious, some becoming extirpated, or being in threat of extinction, due to pressures of over-hunting and/or human-instigated environmental change. In spite of their diverse, deep-rooted and long standing relations with human societies, no multi-disciplinary volume of research on cervids has until now been produced. This volume draws together research on deer from wide-ranging disciplines and in so doing substantially advances our broader understanding of human-deer relationships in the past and the present. Themes include species

dispersal, exploitation patterns, symbolic significance, material culture and art, effects on the landscape and management. The temporal span of research ranges from the Pleistocene to the modern day and covers Europe, North America and Asia. Papers derived from international conferences held at the University of Lincoln and in Paris. *Of Moose and Men* - Jerry Haigh 2012-05-13

Wildlife veterinarian Jerry Haigh discusses his experiences with moose.

The Future of the Red-legged

Partridge - Fabián Casas 2022-09-01

There has been a recent upsurge of red-legged partridge research in most countries where the species is distributed, but no comprehensive review of that fresh and relevant multidisciplinary and international knowledge is available. In fact, this is probably the first scientific book on this important species, apart from Dick Potts' excellent works on

British-introduced population, or ONCFS's (Office Nationale de la Chasse et le Faune Sauvage, France) older technical reports. This is in strong contrast with a plethora of literature in hunting magazines or non-academic books, not often precise, realistic, or well informed. Thus, the book fills a great bibliography gap that could have important social impact. The common thread of the book is the prominent role a species like this may play for research, from basic physiological or ecological knowledge to socio-economics of hunting and the rural world. The general framework of the book [11] is the important role that hunting and game management may play in both rural economies and biodiversity conservation, with the partridge as flag species, and also in identifying the "dark drift" that industrial, incorrectly deployed management, or hunting vision may have on both sustainability of

resources and nature conservation at large. The final aim of the book is identifying the best future scenario, both for partridge hunters and managers as well as the general public.

Ecology, Conservation and Management of Wild Pigs and Peccaries - Mario Melletti 2017-11-23

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.

Sika Deer: Life History Plasticity and Management - Koichi Kaji

2022-06-20

This book provides complete and up-to-date information on sika deer biology and its management, focusing on their life history with an integrated approach of population dynamics, morphology, genetics, and evolution. The expanding distribution of sika and its increase in

population in Japan and other countries are causing damage to agriculture and forestry, impacting ecosystems and affecting other species. We are facing conflicting deer issues regarding the conservation of resource values and pest control of sika deer. This contributed volume compiles new findings focusing on the ecological plasticity of the sika deer. It aims to clarify the ecological characteristics of the deer by integrating studies of different approaches and provides a perspective for their management. The book consists of six parts. Part I introduces the ecological and management background behind the history of sika deer. The following four parts discuss movement ecology (Part II), impact on vegetation and bottom-up effect on sika deer (Part III), impact on ecosystem and its resilience (Part IV), and comparison of life-history characteristics

between sika deer and other ungulate species (Part V). The last part (Part VI) covers the science-based management of sika deer. Contributed by recognized experts and young researchers of sika deer, this book appeals to researchers and professionals in wildlife biology and wildlife management, evolution, population dynamics, morphology, genetics, and reproductive physiology.

Wildlife Welfare - Charlotte Lotta Berg 2021-01-25

The North American Model of Wildlife Conservation - Shane P. Mahoney 2019-09-10

Organ, James Peek, William Porter, John Sandlos, James A. Schaefer
Deer - George A. Feldhamer 2012-02-15
Nature lovers, hunters, and anyone curious about deer will find this fact-filled book both fascinating and full of surprises.

Integrated Waste Management - Sunil

Kumar 2011-08-23

This book reports research on policy and legal issues, anaerobic digestion of solid waste under processing aspects, industrial waste, application of GIS and LCA in waste management, and a couple of research papers relating to leachate and odour management.

Problematic Wildlife II - Francesco Maria Angelici 2020-05-07

In a world where habitats are constantly changing and the impact of anthropization on the environment is increasingly intense, interactions between human and wildlife are becoming more and more complex. Some species pose problems for human activities while many others need to be helped in order to continue to exist. This book follows the first volume called 'Problematic Wildlife', edited by F.M. Angelici and published by Springer in 2016, which has had considerable success with readers and critics. The volume includes 21

chapters divided into 7 parts devoted specific topics which are approached in a multidisciplinary way. There are both review chapters and specific cases, always bearing in mind the interest for an international audience. The book is useful both for scientists, wildlife specialists, conservationists, zoologists, ecologists, university students, nature managers, and for those who live in contact with wildlife and its problems, such as farmers, shepherds, hunters, urban planners, and staff of parks and nature reserves. Its ultimate goal is to offer scientific and pragmatic approaches to manage each categories of problematic species.

European Ungulates and Their Management in the 21st Century -

Marco Apollonio 2010-02-04

The first book to summarise management objectives for ungulates across Europe.

Ungulate Management in Europe - Rory

Putman 2011-04-28

This book considers a number of problems posed by ungulates and their management in Europe. Through a synthesis of the underlying biology and a comparison of the management techniques adopted in different countries, the book explores which management approaches seem effective - and in which circumstances. Experts in a number of different areas of applied wildlife biology review various management problems and alternative solutions, including the impact of large ungulates on agriculture, forestry and conservation habitats, the impact of disease and predation on ungulate populations and the involvement of ungulates in road traffic accidents and possible measures for mitigation. This book is directed at practising wildlife managers, those involved in research to improve methods of wildlife management, and policy-makers in local, regional and

national administrations.

Rewilding European Landscapes -

Henrique M. Pereira 2015-05-04

Some European lands have been progressively alleviated of human pressures, particularly traditional agriculture in remote areas. This book proposes that this land abandonment can be seen as an opportunity to restore natural ecosystems via rewilding. We define rewilding as the passive management of ecological successions having in mind the long-term goal of restoring natural ecosystem processes. The book aims at introducing the concept of rewilding to scientists, students and practitioners. The first part presents the theory of rewilding in the European context. The second part of the book directly addresses the link between rewilding, biodiversity, and habitats. The third and last part is dedicated to practical aspects of the implementation of rewilding as a land management option. We believe

that this book will both set the basis for future research on rewilding and help practitioners think about how rewilding can take place in areas under their management.

Canadian Journal of Zoology - 2012

The Sustainability of Agro-Food and Natural Resource Systems in the Mediterranean Basin - Antonella

Vastola 2015-04-24

This book is focused on the challenges to implement sustainability in diverse contexts such as agribusiness, natural resource systems and new technologies. The experiences made by the researchers of the School of Agricultural, Forestry, Food and Environmental Science (SAFE) of the University of Basilicata offer a wide and multidisciplinary approach to the identification and testing of different solutions tailored to the economic, social and environmental

characteristics of the region and the surrounding areas. Basilicata's productive system is mainly based on activities related to the agricultural sector and exploitation of natural resources but it has seen, in recent years, an industrial development driven by the discovery of oil fields. SAFE research took up the challenge posed by market competition to create value through the sustainable use of renewable and non-renewable resources of the territory. Moreover, due to its unique geographical position in the middle of the Mediterranean basin, Basilicata is an excellent "open sky" laboratory for testing sustainable solutions adaptable to other Mediterranean areas. This collection of multidisciplinary case studies and research experiences from SAFE researchers and their scientific partners is a stimulating contribution to the debate on the development of sustainable

techniques, methods and applications for the Mediterranean regions.

New Directions in Conservation Medicine - A. Alonso Aguirre
2012-06-08
New Directions of Conservation Medicine: Applied Cases of Ecological Health covers topics from emerging diseases and toxicants to the EcoHealth/One Health explosion. It challenges the notion that human health is an isolated concern removed from the bounds of ecology and species interactions.

Ecology and Conservation of Forest Birds - Grzegorz Mikusiński
2018-03-29
An authoritative review of the ecology of forest birds and their conservation issues throughout the Northern Hemisphere.

Animals' Influence on the Landscape and Ecological Importance - Friedrich-Karl Holtmeier
2014-10-22
In its first English-language edition, this book introduces the

many-faceted interactions of animal populations with their habitats. From soil fauna, ants and termites to small and large herbivores, burrowing mammals and birds, the author presents a comprehensive analysis of animals and ecosystems that is as broad and varied as all nature. Chapter 2 addresses the functional role of animals in landscape ecosystems, emphasizing fluxes of energy and matter within and between ecosystems, and the effects of animals on qualitative and structural habitat change. Discussion includes chapters on the role of animal population density and the impacts of native herbivores on vegetation and habitats from the tropics to the polar regions. Cyclic mass outbreaks of species such as the larch bud moth in Switzerland, the mountain pine beetle and the African red-billed weaver bird are described and analyzed. Other chapters discuss Zoochory - the dispersal of seeds by

ants, mammals and birds - and the influence of burrowing animals on soil development and geomorphology. Consideration extends to the impact of feral domestic animals. Chapter 5 focuses on problems resulting from introduction of alien animals and from re-introduction of animal species to their original habitats, discusses the effects on ecosystems of burrowing, digging and trampling by animals. The author also addresses keystone species such as kangaroo rats, termites and beavers. Chapter 6 addresses the role of animals in landscape management and nature conservation, with chapters on the impact of newcomer species such as animals introduced into Australia, New Zealand and Europe, and the consequences of reintroduction of species to original habitat. It also discusses the carrying capacity of natural habit, public attitudes toward conservation and more. The final section ponders the effects of

climate on interactions between animals and their habitats.

Nature's Contributions to People: On the Relation Between Valuations and Actions - Marie Stenseke 2021-08-26

Ecology and prevention of Lyme borreliosis - Marieta A.H. Braks 2016-11-28

How can nature be protected and biodiversity be preserved while the threats of zoonotic diseases are minimised? Expanding nature areas and creating ecological networks across Europe is not only beneficial for wildlife, but also for the pathogens they carry. A prominent case is Lyme borreliosis, which has risen from relative obscurity to become a major public health problem in Europe. The Dutch research program 'Shooting the messenger' took a 'One Health' approach aiming at the development of sustainable measures for the prevention of Lyme borreliosis. An interdisciplinary network of

researchers, public health experts, and nature managers gained and shared knowledge in the ecological processes of ticks, Lyme spirochaetes and their vertebrate hosts as well as in the human epidemiology of tick bites and Lyme borreliosis. These new insights, together with new intervention methods and strategies, are described in this book.

Harvest of Fish and Wildlife - Kevin L. Pope 2021-06-06

Harvest of Fish and Wildlife: New Paradigms for Sustainable Management unites experts in wildlife and fishery sciences for an interdisciplinary overview of harvest management. This book presents unique insights for embracing the complete social-ecological system to ensure a sustainable future. It educates users on evolutionary and population dynamics; social and political influences; hunter and angler behavior; decision processes; impacts of regulations; and stakeholder

involvement. Features: Written by twenty-four teams of leading scientists and managers. Promotes transparent justification for fishing and hunting regulations. Provides examples for integrating decision making into management. Emphasizes creativity in management by integrating art and science. This book appeals to population biologists, evolutionary biologists and social scientists. It is a key resource for on-the-ground managers and research scientists developing harvesting applications. As the book's contributors explain: "Making decisions that are robust to uncertainty...is a paradigm shift with a lot of potential to improve outcomes for fish and wildlife populations." -Andrew Tyre and Brigitte Tenhumberg "Temporal shifts in system states...must somehow be anticipated and dealt with to derive harvest policies that remain optimal in the long term." -Michael Conroy

"Proactive, effective management of sportspersons...will be essential in the new paradigm of harvest management." -Matthew Gruntorad and Christopher Chizinski
Food Safety Risks from Wildlife - Michele Jay-Russell 2015-12-15
Foodborne illnesses caused by zoonotic pathogens associated with wildlife hosts are an emerging microbial food safety concern. Transmission of foodborne pathogens can occur through ingestion, or improper handling, of contaminated game meat. Wild and feral animals have also been investigated as potential sources of *Campylobacter*, *Escherichia coli* O157:H7 and other enteric pathogens following foodborne disease outbreaks linked to fresh fruits and vegetables (e.g., baby spinach in California, shelled-peas in Alaska, strawberries in Oregon). This book explores the range of bacterial, parasitic, and viral pathogens that have been described in

wildlife populations in the United States, Europe and other parts of the world. It also addresses important challenges and solutions to balance agriculture, conservation, and public health goals. The book provides unique information on approaches in risk communication, co-management, and One Health in a wildlife-food safety context. The first five chapters review research on the detection, epidemiology and ecology of foodborne pathogens in wildlife populations including the influence of wildlife-livestock-human interactions. The second half of the book addresses current guidelines to mitigate microbial food safety risks from wildlife hosts and new regulations proposed by the U.S. Food and Drug Administration in the Food Safety Modernization Act Produce Safety Rule. Chapters are written by an array of internationally recognized authors, and will be of interest to agriculture safety

experts, ecologists, environmental health specialists, food safety professionals, microbiologists, public health practitioners, veterinarians, wildlife biologists, and others in academia, government, industry, and students in these disciplines.

Terrestrial Cetartiodactyla - Luca Corlatti 2022-09-29

This volume provides comprehensive overviews of each terrestrial cetartiodactyl species' biology including palaeontology, physiology, genetics, reproduction and development, ecology, habitat and diet. Their economic significance and management, as well as future challenges for research and conservation are also addressed. Each chapter includes a distribution map, a photograph of the animal and key literature. This authoritative volume of the Handbook of the Mammals of Europe is a timely and detailed compilation of all European

terrestrial cetartiodactyls and will appeal to academics and students in mammal research, as well as to professionals dealing with mammal management, including control, use and conservation.

Carrion Ecology and Management -

Pedro P. Olea 2019-07-22

Carrion, or dead animal matter, is an inherent component of aquatic and terrestrial ecosystems worldwide, and is exploited by a wide diversity of organisms from different trophic levels, including microbes, arthropods and vertebrates. Further, carrion consumption by scavengers, i.e. scavenging, supports key ecosystem functions and services such as recycling nutrients and energy, disposing of carcasses and regulating disease spread. Yet, unlike dead plant matter, dead animal decomposition has received little attention in the fields of ecology, wildlife conservation and environmental management, and as a

result the management of carrion for maintaining biodiversity and functional ecosystems has been limited. This book addresses the main ecological patterns and processes relating to the generation and consumption of carrion both in terrestrial and aquatic ecosystems. It also discusses a number of conservation concerns and associated management issues, particularly regarding the increasing role of human-mediated carrion in ecosystems. Lastly, the book outlines future research lines in carrion ecology and management, and identifies the major challenges for scavengers and scavenging processes in the Anthropocene.

The Role of Environmental Reservoirs in Campylobacter-mediated Infection - Shymaa Enany 2021-12-28

Demographic Methods across the Tree of Life - Roberto Salguero-Gomez

2021-08-31

Demography is everywhere in our lives: from birth to death. Indeed, the universal currencies of survival, development, reproduction, and recruitment shape the performance of all species, from microbes to humans. The number of techniques for demographic data acquisition and analyses across the entire tree of life (microbes, fungi, plants, and animals) has drastically increased in recent decades. These developments have been partially facilitated by the advent of technologies such as GIS and drones, as well as analytical methods including Bayesian statistics and high-throughput molecular analyses. However, despite the universality of demography and the significant research potential that could emerge from unifying: (i) questions across taxa, (ii) data collection protocols, and (iii) analytical tools, demographic methods to date have remained taxonomically siloed and methodologically

disintegrated. This is the first book to attempt a truly unified approach to demography and population ecology in order to address a wide range of questions in ecology, evolution, and conservation biology across the entire spectrum of life. This novel book provides the reader with the fundamentals of data collection, model construction, analyses, and interpretation across a wide repertoire of demographic techniques and protocols. It introduces the novice demographer to a broad range of demographic methods, including abundance-based models, life tables, matrix population models, integral projection models, integrated population models, individual based models, and more. Through the careful integration of data collection methods, analytical approaches, and applications, clearly guided throughout with fully reproducible R scripts, the book provides an up-to-date and authoritative overview of

the most popular and effective demographic tools. Demographic Methods across the Tree of Life is aimed at graduate students and professional researchers in the fields of demography, ecology, animal behaviour, genetics, evolutionary biology, mathematical biology, and wildlife management.

Behaviour and Management of European Ungulates – Rory Putman 2014–10–13
Ungulates are an extraordinarily important group of animals worldwide. In many cases, they are keystone species with a disproportionate effect on the functioning of the wider ecological systems of which they form a part. They can also serve as dominant species acting as ecological engineers and as a prey base for endangered or expanding populations of large carnivores. They are important culturally and economically, as a major source of protein in subsistence cultures and because of their wide exploitation in

recreational hunting, which is still a major form of land use in many countries. The book considers a number of aspects of the balance of cost and benefit of ungulates and their management in Europe. Through a synthesis of the underlying biology and a comparison of the management techniques adopted in different countries, management approaches which seem effective within their respective circumstances are explored. Each chapter is written by experts in their own fields, ensuring that they are aware of the most up-to-date literature on that topic and can also offer an experienced and informed review based on their own research experience.

Ecology, Conservation and Management of Wild Pigs and Peccaries – Mario

Melletti 2017–11–23

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