Population Limitation in Birds—Ian Newton 1998-04-02 This book meets the demand for a comprehensive introduction to understanding the processes of population limitation. Recognized worldwide as a respected biologist and educator, Dr. Ian Newton has now written a clear and detailed text on local scale factors limiting factors in birds. It is based almost entirely on results from field studies, though it is set in a contemporary theoretical framework. The 16 chapters fall under three major section headings: Behavior and Density Regulation; Natural Limiting Factors; and Human Impacts. Population Limitation in Birds serves as a needed resource expanding on Dr. David Lack's research in this area of ornithology in the 1950s. It includes numerous line diagrams and beautiful illustrations by acclaimed wildlife artist Keith Brockie. Provides a sorely needed introduction to a long-established core subject in ornithology Focused on local scale factors Written by a well-known biologist and educator Includes numerous line diagrams and beautiful illustrations by acclaimed wildlife artist Keith Brockie

Strategic bird conservation—2000 This volume represents a compilation of papers presented at the 3rd International Partners in Flight Workshop held October 1-3, 1995, at the Grand Hotel in Cape May, N.J. The title of the workshop was "Partners in Flight Conservation Plan: Building Consensus for Action." Manuscripts have been available online since the Cornell Lab of Ornithology web site (http://birdnote.cornell.edu) since the year 1999, and the majority of them have been updated recently to reflect knowledge available by the 2000 publication date. The volume is divided into seven sections that range from general planning considerations to a case study in bird conservation planning. References from all papers are compiled in a single 'References' section at the end of the volume.

Status and management of Neotropical migrant Birds—Deborah M. Finch 1993

Ecology and management of Neotropical Migrant Birds—Thomas E. Martin 1995-10-19 The apparent decline in numbers among many species of migrant songbirds is a timely subject in conservation biology, particularly for ornithologists, ecologists, and wildlife managers. This book is an attempt to discuss the problems in full scope. It presents an ambitious, comprehensive assessment of the current status of neotropical migratory birds in the U.S., and the methods and strategies used to conserve migratory populations. Each chapter is an essay reviewing and assessing the trend from a different viewpoint, all written by leaders in the fields of ornithology, conservation, and population biology.

The Adelie Penguin—David Ainley 2002-10-01 The Adelie penguin is one of the best-studied birds in the world and is the subject of research projects from a dozen nations interested in monitoring changes in the environment and the food webs of the Southern Ocean. This species’ population has been changing dramatically over the past few decades coincident with a general warming of the maritime portion of Antarctica. When the sea-ice is seen to decline so does the population of Adélie penguins. For further, however, the population is increasing. This book summarizes our current ecological knowledge of this polar seabird. In so doing, David Ainley describes the ecological factors important to its life history and details the mechanisms by which it is responding to climate change. The author also chronicles the history of research on Adélie penguins, beginning with the heroic expeditions at the beginning of the twentieth century. Weaving together history, ecology, natural history, and written accounts from the earliest Antarctic naturalists into a fascinating account of this charismatic bird. The Adelie Penguin provides a foundation upon which future ornithological research and environmental monitoring can be based. It is a model for investigations into the effect of climate change on a particular species. The book also contains many fine illustrations from the accomplished illustrator Luci deLeon and photographs by the author.

Birds as Monitors of Environmental Change—R.W. Farnes 2013-04-17 Birds as Monitors of Environmental Change looks at how birds populations are affected by pollutants, water quality, and other physical changes and how this scientific knowledge can help in predicting the effects of pollutants and other physical changes in the environment.

Conserving Bird Biodiversity—Pain 2002-06-06 The earth's biodiversity currently faces an extinction crisis that is unprecedented. Conservationists attempt to intervene in the extinction process either by protecting or restoring important species and habitats, or at national and international levels by influencing key policies and promoting debate. Reliable information is the foundation upon which these efforts are based, which places research at the heart of biodiversity conservation. The role of research in such conservation is diverse. It includes understanding why biodiversity is important, defining units of biodiversity, priority-setting for species and sites, managing endangered and declining populations, understanding large-scale processes, making predictions about the future and initiating or modifying human activities that could prevent bird extinction. This book is a comprehensive guide to the current status, initiatives and challenges of bird conservation work worldwide, readers are encouraged to consider the principles underlying these issues, and illustrate how these principles have been applied to address actual conservation problems for students, practitioners and researchers in conservation biology.

Population Limitation of Birds—Ian Newton 1998-04-03 This book meets the demand for a comprehensive introduction to understanding the processes of population limitation. Recognized worldwide as a respected biologist and educator, Dr. Ian Newton has now written a clear and detailed text on local scale factors limiting factors in birds. It is based almost entirely on results from field studies, though it is set in a contemporary theoretical framework. The 16 chapters fall under three major section headings: Behavior and Density Regulation; Natural Limiting Factors; and Human Impacts. Population Limitation in Birds serves as a needed resource expanding on Dr. David Lack's research in this area of ornithology in the 1950s. It includes numerous line diagrams and beautiful illustrations by acclaimed wildlife artist Keith Brockie. Provides a sorely needed introduction to a long-established core subject in ornithology Focused on local scale factors Written by a well-known biologist and educator Includes numerous line diagrams and beautiful illustrations by acclaimed wildlife artist Keith Brockie

Birds of Two Worlds—Russell E.andes 2005-05-02 For centuries biologists have tried to understand the underpinnings of avian migration: where birds go and why, some migrate and some do not, how they adapt to a changing environment, and how migratory systems evolve. Twenty-five years ago the answers to many of these questions were still in evolution of migration experts in Kent and Morton's classic work Migratory Birds in the Neotropics. In 1995, Hansen and Johnston published a follow-up book, Ecology and Conservation of Neotropical Migrant Landbirds. In Birds of Two Worlds Russell Gress and Peter Marra bring together the world's experts on avian migration to discuss its ecology and evolution. The contributors move the discussion of migration to a global stage, looking at all avian migration systems and delving deeper into the evolutionary foundations of migratory behavior. Readers interested in the biology, behavior, ecology, and evolution of birds have waited a decade to see a worthy sequel to the earlier classics. Birds of Two Worlds will complete the trilogy and become indispensable for ornithologists, evolutionary biologists, serious birders, and public and academic libraries.

Wildlife Review—1995

Analysis and Management of Animal Populations—Byron K. Williams 2002-05 Analysis and Management of Animal Populations deals with the processes involved in making informed decisions about the animal management. It covers the modeling of population responses to management actions, the estimation of quantities needed in the modeling effort, and the application of these estimates and models to the development of sound management decisions. The book synthesizes and integrates in a single volume the methods associated with these themes, as they apply to ecological assessment and conservation of animal populations. Integrates population modeling, parameter estimation and decision-theoretic approaches to management in a single, cohesive framework Provides authoritative, state-of-the-art descriptions of quantitative approaches to modeling, estimation and decision-making Emphasizes the role of mathematical modeling in the conduct of science and management Utilizes a unifying biological context, consistent mathematical notation, and numerous biological examples

Ecological and Environmental Science: A Research Perspective—Hiro H. Soni, Ph.D. The book “Ecological and Environmental Science: A Research Perspective” is a compilation of author’s original research papers, scientific articles, review articles, popular articles, general articles, and short notes on forest ecology, wetland ecology, plant ecology, bird ecology, and animal ecology. The book is a perfect amalgamation of breathtaking and thrust topics spanning biodiversity, and conservation and management of floral and faunal elements including ecology and biodiversity of phytoplankton, zooplankton, aquatic macrophytes, mangroves, terrestrial plants, animals (butterflies, reptiles, mammals) and birds. It covers ecological and environmental factors affecting allochloric and biotic components prevailed in forest, desert, grassland, and wetland habitats and ecosystems. The present book highlights field studies and laboratory investigations carried out by the author during his research journey of 22 years (1998-2020). It discusses phytosociology, ethnobotanical, ethno-ecological and aesthetic values of plants, resource use patterns by local inhabitants, socio-cultural aspects, livelihood dependency, rare and endangered plants, animals and birds, anthropogenic pressures, conservation and management strategies of endemic, extinct, and invasive species and so on. The book covers unique and promising research topics e.g. hydrochemistry, geochemistry, biomonitoring of heavy metals in aquatic and terrestrial plants, metal remobilization, environmental modeling, environmental archaeology, environmental biocatalysts, environmental forensics, etc. The author believes that this book is a perfect blend of his research work on two integral branches of biology i.e. ecology and environmental science, which will undoubtedly enrich and enhance the knowledge and awareness of laymen and scientific community world over especially in the field of ecology and biodiversity of plants, animals, and birds, associated with physical, chemical, biological, ecological and environmental factors. The present book would certainly be useful and handy as a ready-reference material for students, academicians, researchers, scientists, ecological and environmental consultants, restoration specialists, practitioners, conservationalists, and biodiversity managers at regional, national and global platforms.

Birds and Habitats—Robert J. Fuller 2012-11-08 Synthesises important concepts, patterns and issues relating to avian habitat selection, drawing on examples from Europe, North America and Australia.

Biostandards & Biomonitor-Bernd A. Market 2003-07-14 This book provides comprehensive single source coverage of biocronology/biomonitoring in the fields of toxicology and environmental sciences; from the ecological basics to the effects of chemicals on the environment and the latest test strategies. It instruction techniques for chemical analysis and the use of ecotoxicology, and environmental taxonomic examples of the book include: the use of biomonitoring in the detection of environmental pollutants, the use of biomonitoring in environmental risk assessment and the use of biomonitoring in forensics, etc.


Conservation Genetics—V. Leszczik 2013-03-11 It follows naturally from the widely accepted Darwinian dictum that failures of populations or of species to adapt to and evolve in the face of climate change can result in their extinction. Population geneticists have been working for several decades on the problem of ensuring that our populations will be able to evolve in response to climate change. This book provides a comprehensive overview of the use of population genetics in conservation biology, and highlights the key concepts and methods that are central to the field. The book covers a wide range of topics, from the fundamentals of population genetics to the practical applications of these concepts in conservation. It is an essential resource for students and researchers in the field of conservation genetics, as well as for anyone interested in the conservation of biodiversity.


Applied Population and Community Ecology—Jin Hone 2012-06-20 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 figs, 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 modeling studies. It synthesizes them with reviews from research around the world. The implications of the results for wildlife management are also discussed. Intended readers are ecologists, graduate students in ecology and wildlife management and conservation and pest managers.

Bird Migration—Peter Berthold 2001 Bird migration is a charismatic topic that has fascinated naturalists for centuries. This book, the only concise and accessible synthesis of the area, describes not only the migrations, the incredible stamina and navigational skills of the birds, the effects on their distributions, survival and evolution, but also the scientific skills and studies that underlie the information that has been gleaned about migration.

Avian Migration—Peter Berthold 2013-03-09 P. Berthold and E. Oeulin Bird migration is an intriguing aspect of the living world—so much so that it has been investigated for as long, and as thoroughly, as almost any other natural phenomenon. Artistico, who can count as the founder of ornithology, paid very close attention to the migrations of the birds he observed, but it was not until the reign of Frederick II, in the first half of the 13th century, that reliable data began to be obtained. From then on, the data has grown rapidly. Systematic studies of bird migration were introduced when the Vogtverein Basnewitz was founded, as the first ornithological biological observation station in the world (see first memory in "In Memory of Vogtverein Basnewitz"). This area later received enormous impetus when ornithological research on the subject was begun in the large-scale bird ring-banding experiment of 1903 by Johannes Thamman (who was inspired by the pioneering studies of C. C. M. Mortensen), the experiments on photoperiodicity carried out by William Ross in the 1920s in Canada and retention and release experiments performed by Thamman in the 1930s in Basnewitz, the first experimental study on the orientation of migratory birds. After the second world war migration research, while continuing in the previous areas, also expanded into new directions such as radar ornithology, eco-physiology and hormonal control mechanisms, studies of evolution, genitalia, telemetry and others.

The Migration Ecology of Birds—Ian Newton 2010-08-04 This book presents an up-to-date, detailed and thorough review of the most fascinating ecological findings of bird migration. It deals with all aspects of this absorbing subject, including the problems of navigation and vagrancy, the timing and physiological control of migration, the factors that limit their populations, and more. Author, Ian Newton, rewrites the extraordinary adaptability of birds to the variable and changing conditions across the globe, including current climate change. This important book places emphasis on ecological aspects, which have received only scant attention in previous publications. Overall, the book provides the most thorough and in-depth appraisal of current information available, with abundant tables, maps and diagrams, and many new insights. Written in a clear and readable style, this book appeals not only to migration researchers in the field and Ornithologists, but to anyone with an interest in this fascinating subject. * Hot ecological aspects include: various types of bird movements, including dispersal and natal homing, and how they relate to food supplies and other external conditions. Contains numerous tables, maps and diagrams, a glossary, and a bibliography of more than 2,700 references. Written by an active researcher with a distinguished career in avian ecology, including migration research.

Bibliography on Methods of Analyzing Bird Banding Data—David Raymond Anderson 1972 This bibliography is an effort to bring together references from various sources relating to methods that have application or at least historical interest and background in the analysis of bird banding experiments. Several papers reviewing methods or assumptions are included. Attention is focused on the estimation of population size and survival using some type of capture-recapture method. A number of papers dealing with methods of estimating band reporting rates, immigration and mean life span are also included. In the newer, more general birds (single-occurrence experiments). Both types of experiment are merely sampling procedures and they have several basic similarities. The term recapture is descriptive of the general process of interest.

Avian Ecology and Conservation in an Urbanizing World—John M. Marzluff 2012-12-06 One of the most striking and persistent ways humans dominate Earth is by changing land-cover as we settle a region. Much of our ecological understanding about this process comes from studies of birds, yet the existing literature is scattered, mostly decades old, and rarely synthesized or standardized. The twenty-seven contributions authored by leaders in the fields of avian and urban ecology present a unique summary of current research on birds in settled environments ranging from washlands to exurbs, rural to urban. Ecologists, land managers, wildlife managers, evolutionary ecologists, urban planners, landscape architects, and conservation biologists will find this information useful because we address the conservation and ecological implications of urbanization on birds within the context of urban planning, politics, and economics. The book also contains detailed tables and graphs summarizing and synthesis of current research, extant literature, and prescriptions for future work. All interested in human-driven land-cover changes will benefit from a perusal of this book because we present high altitude photographs of each study area.

Partnerships in Birds: The Study of Monogamy—Jeffrey M. Black 1996-05-30 Some birds mate for life, while others have many partners. Why is this so? In this book, fourteen classic studies of bird behavior are brought together to compare the different partnership patterns from ecological and evolutionary perspectives. Often there is a battle of the sexes, as individual birds behave in ways that serve their interests. Introductory and concluding chapters review the latest thinking on this fascinating subject. * Some birds mate for life, while others have many partners. In this book, fourteen studies are brought together to compare different partnership patterns from ecological and evolutionary perspectives. The subjects have been chosen to include the same species living in different habitats (European swans) and at different population densities (Swint Tilt). There are considerable differences between closely related species (Mute Swans and Bewick’s Swans). The studies span the globe and the behavioral gradient, from Ireland’s strictly monogamous Whooper Swans to Australia’s sexually promiscuous Splendid Fairy-wrens. In all cases, sexual and social relationships strongly influence a bird’s survival and breeding success. -

Biogeography and Ecology of Forest Bird Communities—Allen Keast 1990

Bayesian Analysis for Population Ecology—Ruth King 2009-10-30 Novel Statistical Tools for Conserving and Managing Populations. Gathering information on key demographic parameters, scientists can often predict how populations will develop in the future and relate these parameters to external influences, such as global warming. Because of their ability to easily incorporate random errors, fit state-space mode

Behaviour and Conservation—L. Morris Gosling 2000-02-24 Shows how an understanding of behaviour is essential in the conservation of animals.

Personal, Societal, and Ecological Values of Wilderness—1998

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