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# Krebs Ecology

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Dung Beetle Ecology

The Ecology of Place

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Ecology: The Experimental Analysis of Distribution and Abundance

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**CARMELO RICHARD**

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**Dung Beetle Ecology** John Wiley & Sons

How did rodent outbreaks in Germany help to end World War I? What caused the destructive outbreak of rodents in Oregon and California in the late 1950s, the large population outbreak of lemmings in Scandinavia in 2010, and the great abundance of field mice in Scotland in the spring of 2011? Population fluctuations, or outbreaks, of rodents constitute one of the classic

problems of animal ecology, and in *Population Fluctuations in Rodents*, Charles J. Krebs sifts through the last eighty years of research to draw out exactly what we know about rodent outbreaks and what should be the agenda for future research. Krebs has synthesized the research in this area, focusing mainly on the voles and lemmings of the Northern Hemisphere—his primary area of expertise—but also referring to the literature on rats and mice. He covers the patterns of changes in reproduction and mortality and the mechanisms that cause these changes—including

predation, disease, food shortage, and social behavior—and discusses how landscapes can affect population changes, methodically presenting the hypotheses related to each topic before determining whether or not the data supports them. He ends on an expansive note, by turning his gaze outward and discussing how the research on rodent populations can apply to other terrestrial mammals. Geared toward advanced undergraduate students, graduate students, and practicing ecologists interested in rodent population studies, this book will also appeal to researchers seeking to manage rodent populations and to understand outbreaks in both natural and urban settings—or, conversely, to protect endangered species.

**The Ecology of Place** University of Chicago Press

"Summarizing current knowledge of grouse biology, this volume is organized in four sections--spatial ecology, habitat relationships, population biology, and conservation and management--and offers insights into spatial requirements, movements, and demography of grouse. Much of the research employs emerging tools in ecology that span biogeochemistry, molecular genetics, endocrinology, radio-telemetry, and remote sensing".--Adapted from publisher description on back cover

**Complex Population Dynamics** John Wiley & Sons

Charles Krebs' best-selling majors-level text approaches ecology as a series of problems that are best understood by

evaluating empirical evidence through data analysis and application of quantitative reasoning. No other text presents analytical, quantitative, and statistical ecological information in an equally accessible style for students. Reflecting the way ecologists actually practice, the new edition emphasises the role of experiments in testing ecological ideas and discusses many contemporary and controversial problems related to distribution and abundance. Ecology: The Experimental Analysis of Distribution and Abundance, 6th Edition builds on a clear writing style, historical perspective, and emphasis on data analysis with an updated, reorganised discussion of key topics and two new chapters on climate change and animal behavior. Key concepts and key terms are now

included at the beginning of each chapter to help students focus on what is most important within each chapter, mathematical analyses are broken down step by step in a new feature called “Working with the Data,” concepts are reinforced throughout the text with examples from the literature, and end-of-chapter questions and problems emphasise application. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll

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*The Ecological World View* HarperCollins Publishers

In many ecosystems dung beetles play a crucial role--both ecologically and economically--in the decomposition of large herbivore dung. Their activities provide scientists with an excellent opportunity to explore biological community dynamics. This collection of essays offers a concise account of the population and community ecology of dung beetles worldwide, with an emphasis on comparisons between arctic, temperate, and tropical species assemblages. Useful insights arise from

relating the vast differences in species' life histories to their population and community-level consequences. The authors also discuss changes in dung beetle faunas due to human-caused habitat alteration and examine the possible effects of introducing dung beetles to cattle-breeding areas that lack efficient native species. "With the expansion of cattle breeding areas, the ecology of dung beetles is a subject of great economic concern as well as one of intense theoretical interest. This excellent book represents an up-to-date ecological study covering important aspects of the dung beetle never before presented."--Gonzalo Halffter, Instituto de Ecologia, Mexico City Originally published in 1991. The Princeton Legacy Library uses the latest print-on-demand

technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

**Nonequilibrium Ecology** Benjamin-Cummings Publishing Company  
Assembled here for the first time in one volume are forty classic papers that have laid the foundations of modern ecology. Whether by posing new problems, demonstrating important

effects, or stimulating new research, these papers have made substantial contributions to an understanding of ecological processes, and they continue to influence the field today. The papers span nearly nine decades of ecological research, from 1887 on, and are organized in six sections: foundational papers, theoretical advances, synthetic statements, methodological developments, field studies, and ecological experiments. Selections range from Connell's elegant account of experiments with barnacles to Watt's encyclopedic natural history, from a visionary exposition by Grinnell of the concept of niche to a seminal essay by Hutchinson on diversity. Six original essays by contemporary ecologists and a historian of ecology place the selections

in context and discuss their continued relevance to current research. This combination of classic papers and fresh commentaries makes *Foundations of Ecology* both a convenient reference to papers often cited today and an essential guide to the intellectual and conceptual roots of the field. Published with the Ecological Society of America. [Ecology: The Experimental Analysis of Distribution and Abundance](#) Indo American Books

A famous ecologist and a philosopher of science team up to offer a fresh new approach to population biology and ecology. Challenging the traditionally accepted Lotka-Volterra model, which is based on predator-prey interactions, this new model emphasizes maternal effects, specifically the significance of a mother's

interest in the success of her female offspring.

**Behavioural Ecology** Cambridge University Press

Worldwide, *Population Ecology* is the leading textbook on this titled subject. Written primarily for students, it describes the present state of population ecology in terms that can be readily understood by undergraduates with little or no background in the subject. Carefully chosen experimental examples illustrate each topic, and studies of plants and animals are combined to show how fundamental principles can be derived that apply to both species. Use of complex mathematics is avoided throughout the book, and what math is necessary is dealt with by examination of real experimental data rather than



dull theory. The latest edition of this leading textbook. Adopted as an Open University set text.

*Ecological Methodology* Oxford University Press

This book provides an analysis of frequently used research techniques in animal ecology, identifying their limitations and misuses, as well as possible solutions to avoid such pitfalls. The contributors provide an overarching account of central theoretical and methodological controversies. The editors have forged comprehensive presentations of key topics in animal ecology, such as territory and home range estimates, habitation evaluation, population viability analysis, GIS mapping, and measuring the dynamics of societies.

**Ecology** Oxford University Press, USA  
Organised into four sections, this text discusses the organisation of the living world. Links Ecology, Biodiversity and Biogeography Bridges modern and conventional Ecology Builds sequentially from the concept and importance of species, through patterns of diversity to help consider global patterns of biogeography Uses real data sets to help train in essential skills

*Studyguide for Ecology* Pearson

Foraging is fundamental to animal survival and reproduction, yet it is much more than a simple matter of finding food; it is a biological imperative. Animals must find and consume resources to succeed, and they make extraordinary efforts to do so. For instance, pythons rarely eat, but when

they do, their meals are large—as much as 60 percent larger than their own bodies. The snake's digestive system is normally dormant, but during digestion metabolic rates can increase fortyfold. A python digesting quietly on the forest floor has the metabolic rate of thoroughbred in a dead heat. This and related foraging processes have broad applications in ecology, cognitive science, anthropology, and conservation biology—and they can be further extrapolated in economics, neurobiology, and computer science. Foraging is the first comprehensive review of the topic in more than twenty years. A monumental undertaking, this volume brings together twenty-two experts from throughout the field to offer the latest on the mechanics of foraging,

modern foraging theory, and foraging ecology. The fourteen essays cover all the relevant issues, including cognition, individual behavior, caching behavior, parental behavior, antipredator behavior, social behavior, population and community ecology, herbivory, and conservation. Considering a wide range of taxa, from birds to mammals to amphibians, Foraging will be the definitive guide to the field.

Ecology John Wiley & Sons

A sweeping overview of key advances in the field of ecology over the latter half of the twentieth century. For three decades, *Foundations of Ecology*, edited by Leslie A. Real and James H. Brown, has served as an essential primer for graduate students and practicing ecologists, giving them access to the

classic papers that laid the foundations of modern ecology alongside commentaries by noted ecologists. Ecology has continued to evolve, and ecologists Thomas E. Miller and Joseph Travis offer here a freshly edited guide for a new generation of researchers. The period of 1970 to 1995 was a time of tremendous change in all areas of this discipline--from an increased rigor for experimental design and analysis and the reevaluation of paradigms to new models for understanding, to theoretical advances. *Foundations of Ecology II* includes facsimiles of forty-six papers from this period alongside expert commentaries that discuss a total of fifty-three key studies, addressing topics of diversity, predation, complexity, competition, coexistence, extinction,

productivity, resources, distribution, and abundance. The result is more than a catalog of historic firsts; this book offers diverse perspectives on the foundational papers that led to today's ecological work.

*Ecology and Conservation of Lynx in the United States* Springer Science & Business Media

Part 1: What is ecology? Chapter 1: Introduction to the science of ecology. Chapter 2: Evolution and ecology. Part 2: The problem of distribution: populations. Chapter 3: Methods for analyzing distributions. Chapter 4: Factors that limit distributions: dispersal. Chapter 5: Factors that limit distributions: habitat selections. Chapter 6: Factors that limit distributions: Interrelations with other species. Chapter 7: Factors that limit

distributions: temperature, moisture, and other physical-chemical factors. Chapter 8: The relationship between distribution and abundance. Part 3: The problem of abundance: populations. Chapter 9: Population parameters. Chapter 10: Demographic techniques: vital statistics. Chapter 11: Population growth. Chapter 12: Species interactions: competition. Chapter 13: Species interactions: predation. Chapter 14: Species interactions: Herbivory and mutualism. Chapter 15: Species interactions: disease and parasitism. Chapter 16: Population regulation. Chapter 17: Applied problems I: harvesting populations. Chapter 18: Applied problems II: Pest control. Chapter 19: Applied problems III: Conservation biology. Part 4: Distribution

and abundance at the community level. Chapter 20: The nature of the community. Chapter 21: Community change. Chapter 22: Community organization I: biodiversity. Chapter 23: Community organization II: Predation and competition in equilibrial communities. Chapter 24: Community organization III: disturbance and nonequilibrium communities. Chapter 25: Ecosystem metabolism I: primary production. Chapter 26: Ecosystem metabolism II: secondary production. Chapter 27: Ecosystem metabolism III: nutrient cycles. Chapter 28: Ecosystem health: human impacts.  
*Research Techniques in Animal Ecology*  
University of Chicago Press  
Never HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts,

persons, places, and events from the textbook are included. Cram101 Just the FACTS101 studyguides give all of the outlines, highlights, notes, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompany: 9780321507433 . Ecology University of Chicago Press Ecology Is A Fascinating Subject. This Is A Book To Introduce You To It And The Problems Ecologists Try To Analyze. Above All It Is An Attempt To Present The Subject In A Direct, Simple Form Without Including The Detail That Is Necessary In A More Conventional Textbook And Without Burdening The Subject With Abstruse Definitions Or Voluminous Statistics. So Do Not View This Book As A Text But As Supplemental Reading

Designed For An Introductory Biology Course Or For A First Course In Ecology. Foundations of Ecology II Univ of California Press

This new edition of Invasion Ecology provides a comprehensive and updated introduction to all aspects of biological invasion by non-native species. Highlighting important research findings associated with each stage of invasion, the book provides an overview of the invasion process from transportation patterns and causes of establishment success to ecological impacts, invader management, and post-invasion evolution. The authors have produced new chapters on predicting and preventing invasion, managing and eradicating invasive species, and invasion dynamics in a changing climate.

Modern global trade and travel have led to unprecedented movement of non-native species by humans with unforeseen, interesting, and occasionally devastating consequences. Increasing recognition of the problems associated with invasion has led to a rapid growth in research into the dynamics of non-native species and their adverse effects on native biota and human economies. This book provides a synthesis of this fast growing field of research and is an essential text for undergraduate and graduate students in ecology and conservation management. Additional resources are available at [www.wiley.com/go/invasioneecology](http://www.wiley.com/go/invasioneecology)  
Evolutionary Behavioral Ecology  
 Addison-Wesley  
 See publisher description:

*Ecology* Macmillan

Preceded by: An introduction to behavioural ecology / J.R. Krebs, N.B. Davies. 3rd ed. c1993.

Experiments in Ecology John Wiley & Sons

This best-selling majors ecology book continues to present ecology as a series of problems for readers to critically analyze. No other text presents analytical, quantitative, and statistical ecological information in an equally accessible style. Reflecting the way ecologists actually practice, the book emphasizes the role of experiments in testing ecological ideas and discusses many contemporary and controversial problems related to distribution and abundance. Throughout the book, Krebs thoroughly explains the application of

mathematical concepts in ecology while reinforcing these concepts with research references, examples, and interesting end-of-chapter review questions.

Thoroughly updated with new examples and references, the book now features a new full-color design and is accompanied by an art CD-ROM for instructors. The field package also includes The Ecology Action Guide, a guide that encourages readers to be environmentally responsible citizens, and a subscription to The Ecology Place

([www.ecologyplace.com](http://www.ecologyplace.com)), a web site and CD-ROM that enables users to become virtual field ecologists by performing experiments such as estimating the number of mice on an imaginary island or restoring prairie land in Iowa. For college instructors and students.

**Invasion Ecology** University of Chicago Press

Filled with many examples of topic issues and current events, this book develops a basic understanding of how the natural world works and of how humans interact with the planet's natural ecosystems. It covers the history of ecology and describes the general approaches of the scientific method, then takes a look at basic principles of population dynamics and applies them to everyday practical problems.

**Ecology** University of Chicago Press Ecology has long been shaped by ideas that stress the sharing of resources and the competition for those resources, and by the assumption that populations and communities typically exist under equilibrium conditions in habitats

saturated with both individuals and species. However, much evidence contradicts these assumptions and it is likely that nonequilibrium is much more widespread than might be expected. This book is unique in focusing on nonequilibrium aspects of ecology, providing evidence for nonequilibrium and equilibrium in populations (and metapopulations), in extant communities and in ecological systems over

evolutionary time, including nonequilibrium due to recent and present mass extinctions. The assumption that competition is of overriding importance is central to equilibrium ecology, and much space is devoted to its discussion. As communities of some taxa appear to be shaped more by competition than others, an attempt is made to find an explanation for these differences.

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