

Chapter 53: Population Ecology

- 53.1 Define a population and three characteristics of populations: density, dispersion, and demographics.*
- 53.2 Describe the exponential model of population growth and its key assumptions.*
- 53.3 Contrast the logistic and exponential models of population growth and define population carrying capacity.*
- 53.4 Define life history and explain how life history traits are products of natural selection.*
- 53.5 Contrast how density-dependent and density-independent factors affect population growth.*
- 53.6 Describe the historical and recent growth of the human population.*

The next three chapters on population, community, and ecosystem ecology provide the academic backbone for this unit on ecology. Each chapter considers a different organizational level in ecology, starting with population ecology. Before beginning your study of each chapter, be sure you have a clear understanding of the terms in the chapter title.

Study Tip: Graphs are used extensively to help explain concepts in population ecology, so make sure you pull all the information possible from the graphs you will encounter. Do not glance at the graphs, but carefully study them. Using Figure 53.1 in your text, list the two factors that increase population size and the two factors that reduce population size. Changes in populations over time tend to fall into three patterns. Do the graphs clearly indicate those patterns?

Concept 53.1 Biotic and abiotic factors affect population density, dispersion, and demographics

LO 53.1 Define a population and three characteristics of populations: density, dispersion, and demographics.

1. What determines a population?
2. What pieces of data are needed to mathematically determine population density?
3. Work through Figure 53.2 in your text to determine a population size using the *Mark-Recapture Method*. Do the math to make sure you get the same answer as the text. Note and understand what the letters of the formula mean. Next, try the following problem.

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Joacim Rocklöv



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Population Ecology in Practice Dennis L. Murray, Brett K. Sandercock, 2020-02-10 A synthesis of contemporary analytical and modeling approaches in population ecology The book provides an overview of the key analytical approaches that are currently used in demographic genetic and spatial analyses in population ecology The chapters present current problems introduce advances in analytical methods and models and demonstrate the applications of quantitative methods to ecological data The book covers new tools for designing robust field studies estimation of abundance and demographic rates matrix population models and analyses of population dynamics and current approaches for genetic and spatial analysis Each chapter is illustrated by empirical examples based on real datasets with a companion website that offers online exercises and examples of computer code in the R statistical software platform Fills a niche for a book that emphasizes applied aspects of

population analysis Covers many of the current methods being used to analyse population dynamics and structure Illustrates the application of specific analytical methods through worked examples based on real datasets Offers readers the opportunity to work through examples or adapt the routines to their own datasets using computer code in the R statistical platform

Population Ecology in Practice is an excellent book for upper level undergraduate and graduate students taking courses in population ecology or ecological statistics as well as established researchers needing a desktop reference for contemporary methods used to develop robust population assessments *Population Ecology of Migratory Birds* ,1972 Population Ecology of the Mallard ,1972 Test Items and Interactive Electronic Study Guide Questions for Starr's Biology : Concept and Applications Larry G. Sellers,2000 **Environmental Science** Michael L. McKinney,Robert M. Schoch,Logan Yonavjak,2012 Updated with the latest data from the field Environmental Science Systems and Solutions Fifth Edition explains the concepts and teaches the skills needed to understand multi faceted and often very complex environmental issues The authors present the arguments rebuttals evidence and counterevidence from many sides of the debate The Fifth Edition includes new Science in Action boxes which feature cutting edge case studies and essays contributed by subject matter experts that highlight recent and ongoing research within environmental science With an Earth as a system approach the text continues to emphasize Earth s intricate web of interactions among the biosphere atmosphere hydrosphere and lithosphere and how we are central components in these four spheres This flexible unbiased approach highlights 1 how matter cycles over time through Earth s systems 2 the importance of the input throughput output processes that describe the global environment 3 how human activities and consumption modify Earth s systems 4 and the scientific economic and policy solutions to environmental problems Revised and updated to reflect current trends and statistics within Environmental Science New content on renewable energy solar panels and compact fluorescent light bulbs The latest information on Hydropower and the advantages and disadvantages of hydroelectric energy The companion website includes robust learning tools that enable students to make full use of today s learning technology Students will find practice quizzes virtual flashcards answers to in text questions and links to additional coverage regarding material discussed in the text Instructor Resources include an instructor s manual Test Bank PowerPoint Lecture Outline Slides and a PowerPoint Image Bank

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Population Ecology John H. Vandermeer, Deborah Esther Goldberg, 2003 How can the future number of deer agricultural pests or cod be calculated based on the present number of individuals and their age distribution How long will it take for a viral outbreak in a particular city to reach another city five hundred miles away In addressing such basic questions ecologists today are as likely to turn to complicated differential equations as to life histories a dramatic change from thirty years ago Population ecology is the mathematical backbone of ecology Here two leading experts provide the underlying quantitative concepts that all modern day ecologists need John Vandermeer and Deborah Goldberg show that populations are more than simply collections of individuals Complex variables such as the size distribution of individuals and allotted territory for expanding groups come into play when mathematical models are applied The authors build these models from the ground up from first principles using a much broader range of empirical examples from plants to animals from viruses to humans than do standard texts And they address several complicating issues such as age structured populations spatially distributed populations and metapopulations Beginning with a review of elementary principles the book goes on to consider theoretical issues involving life histories complications in the application of the core principles statistical descriptions of spatial aggregation of individuals and populations as well as population dynamic models incorporating spatial information and introductions to two species interactions Complemented by superb illustrations that further clarify the links between the mathematical models and biology Population Ecology is the most straightforward and authoritative overview of the field to date It will have broad appeal among undergraduates graduate students and practicing ecologists

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Effects of Grazing by Wild Ungulates in Yellowstone National Park Francis J. Singer, 1996 **Wildlife Population Monitoring** Marco Ferretti, 2019-11-20 Wildlife management is about finding the balance between conservation of endangered species and mitigating the impacts of

overabundant wildlife on humans and the environment This book deals with the monitoring of fauna related diseases and interactions with humans It is intended to assist and support the professional worker in wildlife management Roots of Ecology Frank N. Egerton, 2012-07-17 Ecological questions are at the center of many of the most important decisions faced by humanity Roots of Ecology documents the deep ancestry of this enormously important science from the early ideas of Herodotus Plato and Pliny up through those of Linnaeus and Darwin to those that inspired Ernst Haeckel's mid nineteenth century neologism ecology Based on a long running series of regularly published columns this important work gathers a vast literature that illustrates the development of the ecological concepts environmental ideas and creative reasoning that have led to our modern view of ecology Roots of Ecology should be on every ecologist's shelf Back cover National Guide to Funding for the Environment and Animal Welfare Foundation Center, 1992

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