

14.3

Population Density and Distribution

VOCABULARY

population density
population dispersion
survivorship curve

KEY CONCEPT Each population has a density, a dispersion, and a reproductive strategy.

MAIN IDEAS

- ➊ Population density is the number of individuals that live in a defined area.
- ➋ Geographic dispersion of a population shows how individuals in a population are spaced.
- ➌ Survivorship curves help to describe the reproductive strategy of a species.

✧ Connect to Your World

If you have ever traveled from a rural area into a city, you may have noticed a change in population density. Cities have more dense populations, while rural areas have more widely dispersed populations. Scientists measure species populations in a similar way. What can we learn from population data?

➊ MAIN IDEA

Population density is the number of individuals that live in a defined area.

The wandering albatross may fly over open ocean waters for days or weeks at a time without ever encountering another bird. In contrast to this solitary lifestyle, elephant seals may gather in groups of a thousand or more on California beaches. By collecting data about a population in a particular area, scientists can calculate the density of a population. **Population density** is a measurement of the number of individuals living in a defined space.

Calculating an accurate population density can tell scientists a great deal about a species. When scientists notice changes in population densities over time, they work to determine whether the changes are the result of environmental factors or are simply due to normal variation in the life history of a species. In this way a wildlife biologist can work to make changes that will help to keep the population healthy. One way to calculate population density is to create a ratio of the number of individuals that live in a particular area to the size of the area. This formula is simplified as follows:

$$\frac{\text{# of individuals}}{\text{area (units}^2\text{)}} = \text{population density}$$

For example, if scientists sampling a population of deer counted 200 individuals in an area of 10 square kilometers, the density of this deer population would be 20 deer per square kilometer.

Connect What might a decrease in the density of a deer population over a specific time period tell scientists about the habitat in the area?

➋ CONNECT TO

GENE FLOW

Recall that in the chapter *The Evolution of Populations* you learned about gene flow and geographic isolation. Population dispersion patterns influence the rate of gene flow among and between species.

Chapter 14 3 Study Guide Population Density And Distribution

Rhoads Murphey



Chapter 14 3 Study Guide Population Density And Distribution:

Study Guide: Sg Concepts in Biology Eldon D.. Enger, Enger, Frederick C.. Ross, 2003 *Study Guide and Workbook, an Interactive Approach for Starr and McMillan's Human Biology, Third Edition* Jane B. Taylor, John D. Jackson, 1999 Asks the student to write all answers in this study guide workbook This workbook is interactive because it requires students to do things instead of just read more material All questions are arranged by chapter modules so students may skip unassigned material Each module in the study guide refers to the page numbers of the corresponding module in the text There is a wide variety of questions multiple choice questions tables to be filled in art to be labeled true false questions requiring students to write the correct answer if the statement is false thought provoking conceptual questions boldfaced terms requiring a written definition list of objectives in fill in the blank format and other types of questions Biology Joseph S. Levine, Kenneth R. Miller, 1998 *Teaching-learning Guide for Odum's Fundamentals of Ecology* Roger L. Kroodsma, Eugene Pleasants Odum, 1975 **The Emergence of Land Markets in Africa** Stein Holden, Keijiro Otsuka, Frank Place, 2010-09-30 This book is the first systematic attempt to address emerging land markets and their implications for poverty equity and efficiency across a number of African countries The high incidence of poverty and the need for increased agricultural productivity remain acute in rural areas of sub Saharan Africa where a lack of secure land rights and a growing scarcity of land relative to the size of the population are becoming increasingly critical issues Indeed land issues in the region are high on the international policy agenda Yet our knowledge about land tenure security and other rural factor markets such as labor oxen manure purchased inputs and credit is far from adequate to formulate sensible policies The case studies in the book show that while land markets and especially informal markets have been rapidly emerging in densely populated parts of Africa and have generally been to the benefit of the poor their functions remain imperfect This is due to policy induced tenure insecurity and the fragmentation of agricultural land Applying rigorous quantitative analyses the book provides a basis for taking into account the role of land markets in national land policies All too often the authors argue land policies have been extreme either prohibiting all land transactions or giving unrestricted freehold rights to a small elite at the expense of the poor From the long experience in Asia it is known that such policies are detrimental to both production efficiency and equity of land use The authors argue that future policies in Africa should work with the markets Regulations should be imposed only with careful testing that they are having the intended effects The Emergence of Land Markets in Africa is a resource for teaching in developed and developing countries as it provides both comprehensive reviews of the literature and detailed case studies It is intended to facilitate the dialogue between researchers and policymakers as well as inspire researchers to go further in their investigations and build an even stronger basis for good policies The Emergence of Land Markets in Africa is the first publication in the new Environment for Development EfD book series EfD books focus on research and applications in environmental and natural resource economics as they are relevant to poverty reduction and environmental problems in

developing countries The EfD book series is part of the EfD initiative www.environmentfordevelopment.org Metabolic Ecology Richard M. Sibly, James H. Brown, Astrid Kodric-Brown, 2012-04-30 Metabolic Ecology Most of ecology is about metabolism the ways that organisms use energy and materials The energy requirements of individuals their metabolic rates vary predictably with their body size and temperature Ecological interactions are exchanges of energy and materials between organisms and their environments Therefore metabolic rate affects ecological processes at all levels individuals populations communities and ecosystems Each chapter focuses on a different process level of organization or kind of organism It lays a conceptual foundation and presents empirical examples Together the chapters provide an integrated framework that holds the promise for a unified theory of ecology The book is intended to be accessible to upper level undergraduates and graduate students but also of interest to senior scientists Its easy to read chapters and clear illustrations can be used in lecture and seminar courses This is an authoritative treatment that will inspire future generations to study metabolic ecology The Scope of Geography (RLE Social & Cultural Geography) Rhoads Murphey, 2014-01-23 This book introduces the beginning student to the major concepts materials and tools of the discipline of geography While it presents geographic theory as whole and for each of its parts the chief emphasis is on concrete analysis and example rather than on abstraction an approach which has proven more successful for undergraduate courses than those with a more heavily theoretical bias The text was extensively re written for the third edition which enhanced its clarity and effectiveness with expanded cartographic coverage

PRINCIPLES OF MASS TRANSFER AND SEPERATION PROCESSES DUTTA, BINAY K., 2007-01-21 This textbook is targetted to undergraduate students in chemical engineering chemical technology and biochemical engineering for courses in mass transfer separation processes transport processes and unit operations The principles of mass transfer both diffusional and convective have been comprehensively discussed The application of these principles to separation processes is explained The more common separation processes used in the chemical industries are individually described in separate chapters The book also provides a good understanding of the construction the operating principles and the selection criteria of separation equipment Recent developments in equipment have been included as far as possible The procedure of equipment design and sizing has been illustrated by simple examples An overview of different applications and aspects of membrane separation has also been provided Humidification and water cooling necessary in every process indus try is also described Finally elementary principles of unsteady state diffusion and mass transfer accompanied by a chemical reaction are covered **SALIENT FEATURES** A balanced coverage of theoretical principles and applications Important recent developments in mass transfer equipment and practice are included A large number of solved problems of varying levels of complexities showing the applications of the theory are included Many end chapter exercises Chapter wise multiple choice questions An Instructors manual for the teachers **A Workbook and Study Guide for Regional Geography of the**

World, Wheeler, Kostbade, Thoman Jesse H. Wheeler, 1957 **Geography, Study Guide** Harm J. de Blij, Peter O.

Muller,1988-04-26 An introduction to world regional geography organized according to developed and less developed regions this text provides an overview of the regional geography of the world as well as basic systematic geography Covers Europe the Soviet Union North America Australia Japan Middle and South America Africa Southwest Asia the Indian Perimeter China and Southeast Asia Material covered includes regional concepts and classification culture and landscape pleistocene influence climate regions water cycles and soil distribution Specifics of each region are also considered such as population politics changing natural environment and economics Also discusses urbanization industrialization environmental hazards and diseases and more Features several indices and a glossary **World Seas: An Environmental Evaluation**

Jean-Francois Hamel,2018-09-03 World Seas An Environmental Evaluation Second Edition Volume Two The Indian Ocean to the Pacific provides a comprehensive review of the environmental condition of the seas from the Indian Ocean to the Pacific Each chapter is written by experts in the field who provide historical overviews in environmental terms current environmental status major problems arising from human use informed comments on major trends problems and successes and recommendations for the future The book is an invaluable worldwide reference source for students and researchers who are concerned with marine environmental science fisheries oceanography and engineering and coastal zone development Covers regional issues that help countries find solutions to environmental decline that may have already developed elsewhere Provides scientific reviews of regional issues thus empowering managers and policymakers to make progress in under resourced countries and regions Includes comprehensive maps and updated statistics in each region covered Reader's

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Smith,Thomas Michael Smith,2000 Provides an accessible introduction to ecology for non majors *World Geography Today* ,2000 **Prentice Hall World Explorer: Eastern Hemisphere** Heidi Hayes Jacobs,Brenda Randolph,Michal

LeVasseur,Yvonne S. Gentzler,2003 *Engineering News* ,1909 The Building News and Engineering Journal ,1886

Population Biology John Merritt Emlen,1984 **Obesity** Gareth Williams,Gema Fruhbeck,2009-04-20 Gareth Williams MD ScD FRCP Edin Professor of Medicine University of Bristol Southmead Hospital Bristol UK Gema Fruhbeck Department of Endocrinology Clinica Universitaria and Metabolic Research Laboratory University of Navarra Spain

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