

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.

Biology Guide Chapter 53 Population Ecology Answers

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Shifley, Robert Rogers, Daniel C
Dey, John M Kabrick**



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Do Butterflies Bite? Hazel Davies, Carol A Butler, 2008-06-03 How fast do butterflies fly Does a butterfly have ears Do they sleep Does a caterpillar have a skeleton How does a moth get out of its cocoon What is the difference between a butterfly and a moth And just what is a skipper Every year thousands of people visit butterfly conservatories to stand in quiet awe of the simple beauty displayed by these magical creatures Hazel Davies and Carol A Butler capture the sense of wonderment and curiosity experienced by adults and children alike in this book about butterflies and their taxonomic cousins the moths and the skippers Beautifully illustrated with color and black and white photographs and drawings by renowned artist William Howe this book is an essential resource for parents teachers students or anyone who has ever been entranced by these fascinating fluttering creatures Covering everything from their basic biology to their complex behaviors at every stage of life to issues in butterfly conservation Davies and Butler explore wide ranging topics and supply a trove of intriguing facts You ll find tips on how to attract more butterflies to your garden how to photograph them and even how to raise them in your own home Arranged in a question and answer format the book provides detailed information written in an accessible style that brings to life the science and natural history of these insects In addition sidebars throughout the book detail an assortment of butterfly trivia while extensive appendices direct you to organizations web sites and more than 200 indoor and outdoor public exhibits where you can learn more or connect with other lepidopterophiles butterfly lovers *Study Guide Essential Biology with Physiology* Edward J. Zalisko, 2003-07 Students can master key concepts and earn a better grade with the thought provoking exercises found in this study guide Study advice tables quizzes and crossword puzzles help students test their understanding of biology The Study Guide also includes references to student media activities on the Essential Biology CD ROM and Website **The Ecology and Silviculture of Oaks, 3rd Edition** Paul S Johnson, Stephen R Shifley, Robert Rogers, Daniel C Dey, John M Kabrick, 2019-04-10 The third edition of The Ecology and Silviculture of Oaks is an updated and expanded edition that explores oak forests as responsive ecosystems New chapters emphasize the importance of fire in sustaining and managing oak forests the effects of a changing climate and advanced artificial regeneration techniques This new edition expands on silvicultural methods for restoring and sustaining oak woodlands and savannahs and on management of ecosystem services including wildlife habitat It also incorporates new material on evaluating landscape scale and cumulative effects of management action compared with inaction Nine of the fifteen chapters cover updated information on the geographic distribution of US oaks oak regeneration dynamics site productivity stocking and stand development even and

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