

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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Table of Contents Biology Guide 53 Population Ecology Answers

1. Understanding the eBook Biology Guide 53 Population Ecology Answers
 - The Rise of Digital Reading Biology Guide 53 Population Ecology Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Biology Guide 53 Population Ecology Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Biology Guide 53 Population Ecology Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biology Guide 53 Population Ecology Answers
 - Personalized Recommendations
 - Biology Guide 53 Population Ecology Answers User Reviews and Ratings

- Biology Guide 53 Population Ecology Answers and Bestseller Lists
- 5. Accessing Biology Guide 53 Population Ecology Answers Free and Paid eBooks
 - Biology Guide 53 Population Ecology Answers Public Domain eBooks
 - Biology Guide 53 Population Ecology Answers eBook Subscription Services
 - Biology Guide 53 Population Ecology Answers Budget-Friendly Options
- 6. Navigating Biology Guide 53 Population Ecology Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Biology Guide 53 Population Ecology Answers Compatibility with Devices
 - Biology Guide 53 Population Ecology Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Biology Guide 53 Population Ecology Answers
 - Highlighting and Note-Taking Biology Guide 53 Population Ecology Answers
 - Interactive Elements Biology Guide 53 Population Ecology Answers
- 8. Staying Engaged with Biology Guide 53 Population Ecology Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biology Guide 53 Population Ecology Answers
- 9. Balancing eBooks and Physical Books Biology Guide 53 Population Ecology Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biology Guide 53 Population Ecology Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Biology Guide 53 Population Ecology Answers
 - Setting Reading Goals Biology Guide 53 Population Ecology Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Biology Guide 53 Population Ecology Answers
 - Fact-Checking eBook Content of Biology Guide 53 Population Ecology Answers
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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