

## 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.

# 53 Population Ecology Ap Bio Guide Answers

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## **53 Population Ecology Ap Bio Guide Answers:**

## Enjoying the Track of Term: An Psychological Symphony within **53 Population Ecology Ap Bio Guide Answers**

In some sort of eaten by screens and the ceaseless chatter of immediate transmission, the melodic splendor and emotional symphony produced by the written word often fade into the background, eclipsed by the persistent noise and interruptions that permeate our lives. But, situated within the pages of **53 Population Ecology Ap Bio Guide Answers** an enchanting fictional value filled with natural thoughts, lies an immersive symphony waiting to be embraced. Crafted by an outstanding musician of language, this fascinating masterpiece conducts visitors on a psychological journey, skillfully unraveling the hidden tunes and profound influence resonating within each carefully constructed phrase. Within the depths with this moving evaluation, we shall examine the book is central harmonies, analyze its enthralling publishing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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