

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 53 Population Ecology Answers

Paul R. Ehrlich, Ilkka Hanski



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