

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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Tobias Bleicker



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chapters on stem cells abuse liability biomarkers inhalation toxicology biostatistics and more Updated with the latest international guidelines for nonclinical toxicology in both small and large molecules Incorporates practical examples in order to illustrate day to day activities and the expectations associated with working in nonclinical toxicology *Aches and Gains* Paul Christo, 2017-09-05 Pain is often treatable but doctors medical professionals and patients don't understand the intricacies of chronic pain Millions who suffer from pain become hopeless With *Aches and Gains* Dr Paul Christo a Johns Hopkins physician and leading pain specialist sheds new light on what it means to live with and overcome chronic pain Dr Christo shares celebrity interviews including Naomi Judd Lisa Swayze Montel Williams Ally Hilfiger and Clay Walker from his Sirius XM radio show *Aches and Gains* and stories from patients who have found a way to overcome the pain that once controlled their lives Offering traditional integrative and innovative methods of easing pain the book is a life changing tool for anyone associated with pain including pain sufferers themselves doctors nurses medical professionals and caregivers Features a foreword by renowned talk show host Montel Williams ***The Athenaeum***, 1858 Normal Instructor and Teachers World, 1918 Complementary Therapies for Physical Therapy - E-Book Judith E. Deutsch, Ellen Z. Anderson, 2007-12-10 *Complementary Therapies for Physical Therapy A Clinical Decision Making Approach* is unique in that it provides a comprehensive overview plus detailed coverage of the therapies most relevant to rehabilitation The largest section of the book covers Manual Body Based Therapies which arguably are a natural extension of established physical and occupational therapy interventions This section includes Rolfing Feldenkrais Method Alexander Technique Craniosacral Therapy Pilates Trager and Shiatsu Movement therapies which are not hands on Yoga and Tai Chi are covered in another section Separate chapters are devoted to Qi Gong and Magnets which many therapists use along with more traditional physical agents PICO Population Intervention Comparison Outcome boxes summarize key information and save you time by providing a method for performing quick and accurate literature searches Realistic case scenarios show you how various CAM modalities can be incorporated into treatment for therapeutic benefit The use of the clinical decision making model prepares you to implement critical thinking skills across other CAM treatments Well referenced content with a focus on literature ensures that content is up to date and evidence based to provide you with the tools you need to search additional areas and keep current with new literature in this constantly changing field An emphasis on therapies most relevant to rehabilitation ensures you get the information you need to incorporate CAM into your practice

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