

## Chapter 36: Population Ecology

### **Opening Essay**

1. Explain how the introduction of Nile perch into Lake Victoria changed the ecology of the lake and surrounding region.

### **Population Structure and Dynamics**

2. Define a population. Describe the general type of work performed by population ecologists.
3. Define population density and describe different types of dispersion patterns.
4. Explain how life tables are used to track mortality and survivorship in populations. Compare Type I, Type II, and Type III survivorship curves.
5. Describe and compare the exponential and logistic population growth models, illustrating both with examples. Explain the concept of carrying capacity.
6. Describe the factors that regulate growth in natural populations.
7. Define boom-and-bust cycles, explain why they occur, and provide examples.
8. Explain how life-history traits vary with environmental conditions and with population density. Compare r-selection and K-selection and indicate examples of each.
9. Describe the major challenges inherent in managing populations.

### **The Human Population**

10. Explain how the structure of the world's human population has changed and continues to change. Describe the key factors that affect human population growth.
11. Explain how the age structure of a population can be used to predict changes in population size and social conditions.
12. Explain the concept of an ecological footprint. Describe the uneven use of natural resources in the world.

# Population Biology Study Guide

**Jiyuan Zhang**



## **Population Biology Study Guide:**

## Adopting the Beat of Term: An Psychological Symphony within **Population Biology Study Guide**

In a global used by displays and the ceaseless chatter of instant transmission, the melodic splendor and emotional symphony created by the published word frequently disappear into the back ground, eclipsed by the constant sound and distractions that permeate our lives. However, set within the pages of **Population Biology Study Guide** a wonderful fictional treasure overflowing with raw thoughts, lies an immersive symphony waiting to be embraced. Constructed by an elegant musician of language, that charming masterpiece conducts viewers on an emotional trip, skillfully unraveling the hidden tunes and profound impact resonating within each carefully crafted phrase. Within the depths with this poignant review, we shall explore the book is central harmonies, analyze its enthralling writing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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