

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

L Reisser



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