

CHAPTER 55: Population Ecology

1. Describe how humans have tried to control populations in Australia.

2. How can an ecologist estimate the numbers of individuals in a population?

3. What are some possible difficulties in counting populations?

4. Compare the three survival strategies (survivorship curves) and give an example of each:

- _____
- _____
- _____

5. Write the formula for population growth **without** limits. Define each of the terms. What type of growth is this called?

6. Define carrying capacity (K).

Name: _____

7. Write the formula for population growth **with** limits. Define each of the terms. What type of growth is this called?

8. What happens to a population when the number of individuals approaches carrying capacity?

9. Compare K-selected to r-selected species. Give an example of each.

10. Identify factors that regulate population size.

11. How would you characterize human population growth?

12. Why does an introduced species new to an environment sometimes have a population explosion?

13. What is a biological control? What are the dangers of using biological controls?
