

AP Biology Guided Reading - CHAPTER 53: POPULATION ECOLOGY

1. How can an ecologist estimate the numbers of individuals in a population?
2. What are some possible difficulties in counting populations?
3. Describe three patterns of dispersal.
 - a.
 - b.
 - c.
4. Compare the survival strategies of species and give an example of each type.
 - a. Type I
 - b. Type II
 - c. Type III
5. Write the formula for population growth without limits. Define the terms.
6. Define carrying capacity.
7. Write the formula for population growth with limits. Define the terms.
8. What happens to a population when the number of individuals approaches carrying capacity?

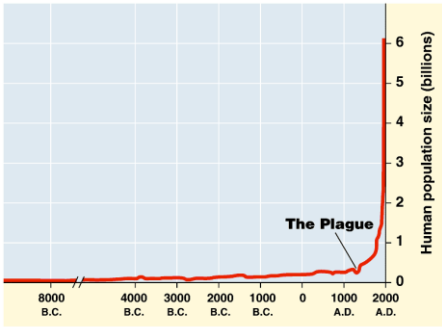
9. Compare K-selected to r-selected species. Give examples of each.

10. Identify factors that regulate population size.

11. Compare density-independent and density-dependent factors limiting populations.

12. Look at the growth curve of the human population. How does it compare to the growth curves earlier in the chapter?

13. Have humans reached K? What factors are significant when explaining our growth curve?



14. Look at the age structure diagrams of different countries. How might the age structure influence policy?

