

Population Growth

How fast do populations grow?

1. Which diagram of growth is graphed, the J-shaped curve or the S-shaped curve of the sigmoid?
 (J-shaped curve)
2. Which has a greater total potential number of mice? Why?
 (The first group because potentiality has more offspring produced per)
3. What is carrying capacity?
 (Number of individuals a given environment can sustain)
4. What are the two types of limiting factors, and how do they differ?
 (Density-dependent and density-independent factors and density-dependent factors are dependent on the density of the population)
5. Which limiting factors will have the greatest effect on a population, what happens to the growth curve?
 (Density-dependent factors have greater effect on the population because they are dependent on the population's density)
6. Match the following terms to the correct description.

<u> </u> mortality	a. death rate
<u> </u> fecundity	b. predicted length of survival
<u> </u> fertility	c. ability to reproduce
<u> </u> fecundity	d. birth of new individuals
<u> </u> life expectancy	e. number of offspring
7. Which type of survivorship curve would be represented by a population of elephants? A population of frogs?
 (elephants have type I survivorship curve frogs have type III curve)

How Populations Grow Guided Answers

Terry C. Jones



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