

Population Ecology

Directions: Look at the graphs below and answer the following questions.

Graphs 1 - Exponential Growth and Carrying Capacity

1. Which of the two curves exhibits exponential growth?

Curve 1

2. Which of the two curves exhibits a carrying capacity?

Curve 2

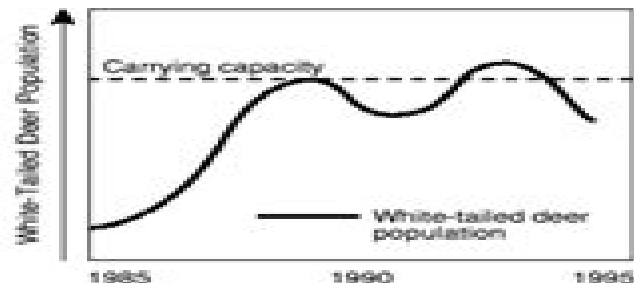
3. What is the carrying capacity of this graph? **~1000 individuals**

4. In what generation does this population reach its carrying capacity?

Around Generation 23



Graph 2



1. During which years was the growth of the deer population exponential?

Pre-1990 and 1991

2. Give one possible reason why the population decreased in 1990 after it had reached its carrying capacity.

Limiting factors such as disease, food resources, hunting

3. Give one hypothesis to explain why the population exceeded its carrying capacity in 1992.

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4. Why did the population decrease in 1994 after it exceeded the carrying capacity?

See answer from #2

5. Overall, do deer populations seem to exhibit exponential or logistic growth? Explain.

Logistic, since they reach a carrying capacity and stay around that carrying capacity

Population Ecology Graph Worksheet Answers

Raffaella Di Napoli

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Population Ecology : BISC 451 Robert E. DeWreede, Open Learning Institute (Richmond, B.C.), 1981 *Researches on population ecology*, 1983 *Population, Ecology, and Social Evolution*, **Population Ecology** George Rex Meyer, 1976
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Research Papers on Population Ecology Shun'ichi Iwao, 1983 **Population Ecology** Source Wikipedia, 2013-09

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Population Ecology The Open The Open Courses Library, 2019-11-27 Population Ecology In biology a population is a very specific thing A population is all the members of a species living within a specific area Populations are typically dynamic entities They expand and contract but as noted above they cannot expand infinitely Populations fluctuate based on a number of factors seasonal and yearly changes in the environment natural disasters such as forest fires and volcanic eruptions competition for resources between and within species and the amount of habitat where an organism lives The statistical study of population dynamics demography uses a series of mathematical tools to investigate how populations respond to changes in their biotic and abiotic environments Many of these tools were originally designed to study human populations

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