

## 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

**Source Wikipedia**



## **Population Ecology Graph Worksheet Answers:**

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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  
**Researches on Population Ecology** Michael Howard Smith, John Thurlow McGinnis, 1968      *Open University*, 1985  
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 Ecology : BISC 451** Open Learning Agency (Burnaby, B.C.),Roy Turkington,1993 *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  
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