#### Population Ecology

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

#### Graphs 1 - Exponential Growth and Carrying Capacity

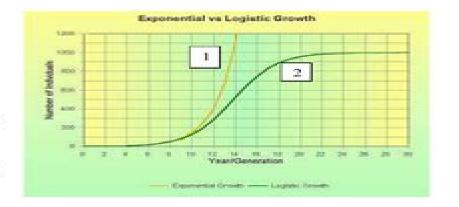
1. Which of the two curves exhibits exponential growth?

Curve 1

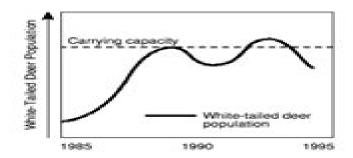
Which of the two curves exhibits a carrying capacity?Curve 2

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



During which years was the growth of the deer population exponential?
 Pre-1990 and 1991

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

Give one hypothesis to explain why the population exceeded its carrying capacity in 1992.
 More resources available

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**

**TD Snyder** 

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