#### Population Ecology

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

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

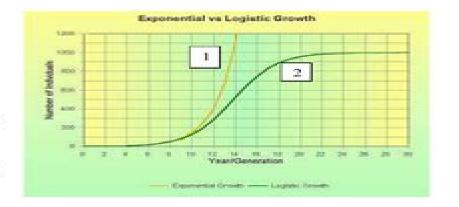
1. Which of the two curves exhibits exponential growth?

Curve 1

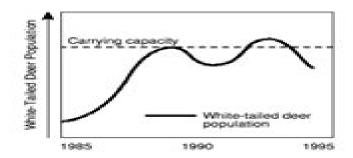
Which of the two curves exhibits a carrying capacity?Curve 2

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**

Shun'ichi Iwao

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**Population Ecology and Chaos** Karl Sigmund, 1993 **Population** Population Ecology Horace Floyd Quick, 1974 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 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 Chapter Outline Population Population Growth Population Regulation Human Population Growth The Open Courses Library introduces you to the best Open Source Courses Matrix **Models in Population Ecology** Katriona Shea,1994 Population Ecology and Modeling of Greater Scaup Deborah Anne Rocque,1997

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