

## 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

**TD Snyder**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the 'TD Snyder' text.

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web the tip speed ratio  $\lambda$  or TSR for wind turbines is the ratio between the tangential speed of the tip of a blade and the actual speed of the wind. The tip speed ratio is related to efficiency, with the optimum varying with blade design. Higher tip speeds result in higher noise levels and require stronger blades due to larger centrifugal forces. The tip speed



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web the steady blade element momentum bem developed by glauert h 1935 in 1935 is used for calculating the loads acting on the wind turbine rotor for any set of wind speed rotor speed

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web wind turbine power nominal power yield annual yield rotation magnitude distance repowering wind turbine power calculator calculates the power of a wind turbine from size wind speed and air density the radius is the length of a rotor blade the wind speed refers to one point in time not to an average speed

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