

## 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**

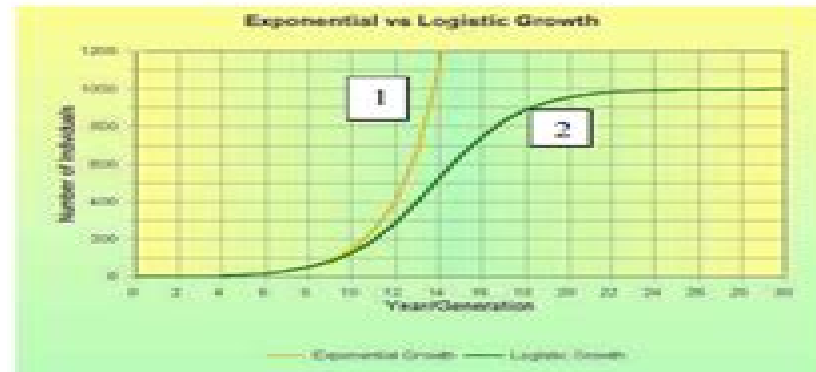
2. Which of the two curves exhibits a carrying capacity?

**Curve 2**

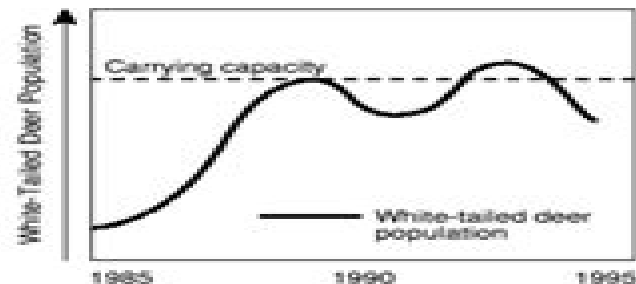
3. What is the carrying capacity of this graph? **~1000 individuals**

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.

**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

**Albert Kaskel**

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.

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

*Teacher's Wraparound Edition: Two Biology Everyday Experience* Albert Kaskel, 1994-04-19      *The Science Teacher's Toolbox* Tara C. Dale, Mandi S. White, 2020-04-09 A winning educational formula of engaging lessons and powerful strategies for science teachers in numerous classroom settings The Teacher's Toolbox series is an innovative research based resource providing teachers with instructional strategies for students of all levels and abilities Each book in the collection focuses on a specific content area Clear concise guidance enables teachers to quickly integrate low prep high value lessons and strategies in their middle school and high school classrooms Every strategy follows a practical how to format established by the series editors The Science Teacher's Toolbox is a classroom tested resource offering hundreds of accessible student friendly lessons and strategies that can be implemented in a variety of educational settings Concise chapters fully explain the research basis necessary technology Next Generation Science Standards correlation and implementation of each lesson and strategy Favoring a hands on approach this book provides step by step instructions that help teachers to apply their new skills and knowledge in their classrooms immediately Lessons cover topics such as setting up labs conducting experiments using graphs analyzing data writing lab reports incorporating technology assessing student learning teaching all ability students and much more This book enables science teachers to Understand how each strategy works in the classroom and avoid common mistakes Promote culturally responsive classrooms Activate and enhance prior knowledge Bring fresh and engaging activities into the classroom and the science lab Written by respected authors and educators The Science Teacher's Toolbox Hundreds of Practical Ideas to Support Your Students is an invaluable aid for upper elementary middle school and high school science educators as well those in teacher education programs and staff development professionals      *Population Ecology*, 1973      *Population Biology* Alan Hastings, 1996-12-13 Population biology has been investigated quantitatively for many decades resulting in a rich body of scientific literature Ecologists often avoid this literature put off by its apparently formidable mathematics This textbook provides an introduction to the biology and ecology of populations by emphasizing the roles of simple mathematical models in explaining the growth and behavior of populations The author only assumes acquaintance with elementary calculus and provides tutorial explanations where needed to develop mathematical concepts Examples problems extensive marginal notes and numerous graphs enhance the book's value to students in classes ranging from population biology and population ecology to mathematical biology and mathematical ecology The book will also be useful as a supplement to introductory courses in ecology      **Population Ecology** Horace Floyd Quick, 1974

**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  
*Research Papers on Population Ecology* Shun'ichi Iwao, 1983      *Population Ecology* Source Wikipedia, 2013-09 Please

note that the content of this book primarily consists of articles available from Wikipedia or other free sources online Pages 66  
 Chapters Population Logistic function Population density Carrying capacity Overpopulation Colony collapse disorder Decline  
 in amphibian populations Population dynamics of fisheries Relative species abundance Competitive Lotka Volterra equations  
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Population Ecology Horace Floyd Quick,1974 **Population Ecology and Chaos** Karl Sigmund,1993 **Population  
 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  
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