

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

Population Ecology Graph Worksheet

Graphs 1- Exponential Growth & Carrying Capacity

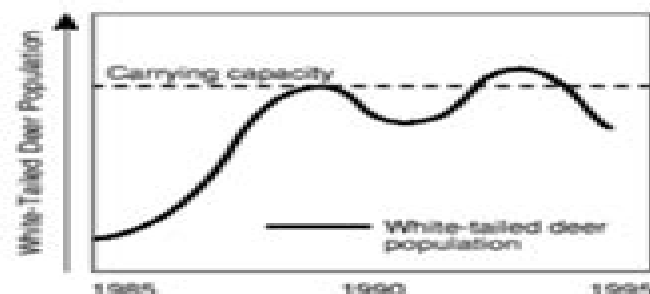


1. Which of the two curves exhibits exponential growth?
2. Which of the two curves exhibits a carrying capacity?
3. What is a carrying capacity of a population?
4. What is the carrying capacity of this graph?
5. In what generation does this population reach its carrying capacity?

6. What is the difference between a carrying capacity graph & an exponential growth curve?

Graph 2 – Carrying Capacity

1. For what type of organism is the carrying capacity shown?
2. In what year did this population first reach carrying capacity?
3. Give one reason why the population decreased in 1990 after it had reached its carrying capacity.
4. Give one hypothesis to explain why the population exceeded its carrying capacity in 1992.
5. Why did the population decrease in 1994 after it exceeded the carrying capacity?



Graph 3- Competition Curve

Graph 3 shows the growth of 2 species of bacteria grown on the same petri dish. It also shows their growth rate when grown separately.

1. Which of the 2 types of bacteria will soon die? Why?
2. Which of the 2 bacteria strains is better adapted for competition?
3. How is the growth rate for *P. caudatum* different when it is grown alone?

Competition Between Two Laboratory Populations of *Paramecium*



Population Ecology Graph Answer Key

Craig H. Heller



Population Ecology Graph Answer Key:

Population Ecology John H. Vandermeer, Deborah E. Goldberg, 2013-08-25 The essential introduction to population ecology now expanded and fully updated Ecology is capturing the popular imagination like never before with issues such as climate change species extinctions and habitat destruction becoming ever more prominent At the same time the science of ecology has advanced dramatically growing in mathematical and theoretical sophistication Here two leading experts present the fundamental quantitative principles of ecology in an accessible yet rigorous way introducing students to the most basic of all ecological subjects the structure and dynamics of populations John Vandermeer and Deborah Goldberg show that populations are more than simply collections of individuals Complex variables such as distribution and territory for expanding groups come into play when mathematical models are applied Vandermeer and Goldberg build these models from the ground up from first principles using a broad range of empirical examples from animals and viruses to plants and humans They address a host of exciting topics along the way including age structured populations spatially distributed populations and metapopulations This second edition of Population Ecology is fully updated and expanded with additional exercises in virtually every chapter making it the most up to date and comprehensive textbook of its kind Provides an accessible mathematical foundation for the latest advances in ecology Features numerous exercises and examples throughout Introduces students to the key literature in the field The essential textbook for advanced undergraduates and graduate students An online illustration package is available to professors

Insect Population Ecology George Copley Varley, G. R. Gradwell, Michael Patrick Hassell, 1974-01-01 Expressing population changes density dependent processes affecting communities of single species compositions between species for a limited resource parasites and predators climate and weather life tables and their use in population changes of some forest insects biological control

Ecology David T. Krohne, 2018 Ecology Evolution Application Integration Second Edition takes a unique evolutionary approach to ecology focusing on the concepts of the discipline and the human impact on ecosystems Helping students develop their scientific reasoning skills this text teaches them not only what we know about the field but how we know it

Stochastic Population Dynamics in Ecology and Conservation Russell Lande, Steinar Engen, Bernt-Erik Sæther, 2003 All populations fluctuate stochastically creating a risk of extinction that does not exist in deterministic models with fundamental consequences for both pure and applied ecology This book provides the most comprehensive introduction to stochastic population dynamics combining classical background material with a variety of modern approaches including new and previously unpublished results by the authors illustrated with examples from bird and mammal populations and insect communities Demographic and environmental stochasticity are introduced with statistical methods for estimating them from field data The long run growth rate of a population is explained and extended to include age structure with both demographic and environmental stochasticity Diffusion approximations facilitate the analysis of extinction dynamics and the duration of the final decline Methods are developed for estimating

delayed density dependence from population time series using life history data Metapopulation viability and the spatial scale of population fluctuations and extinction risk are analyzed Stochastic dynamics and statistical uncertainty in population parameters are incorporated in Population Viability Analysis and strategies for sustainable harvesting Statistics of species diversity measures and species abundance distributions are described with implications for rapid assessments of biodiversity and methods are developed for partitioning species diversity into additive components Analysis of the stochastic dynamics of a tropical butterfly community in space and time indicates that most of the variance in the species abundance distribution is due to ecological heterogeneity among species so that real communities are far from neutral

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Population Ecology and Management of Wisconsin Pheasants Frederic H. Wagner, Carroll D. Besadny, Cyril Kabat, 1965

Population and Community Ecology of Ontogenetic Development André M. de Roos, Lennart Persson, 2013-01-15 Most organisms show substantial changes in size or morphology after they become independent of their parents and have to find their own food Furthermore the rate at which these changes occur generally depends on the amount of food they ingest In this book Andr de Roos and Lennart Persson advance a synthetic and individual based theory of the effects of this plastic ontogenetic development on the dynamics of populations and communities De Roos and Persson show how the effects of ontogenetic development on ecological dynamics critically depend on the efficiency with which differently sized individuals convert food into new biomass Differences in this efficiency or ontogenetic asymmetry lead to bottlenecks in and thus population regulation by either maturation or reproduction De Roos and Persson investigate the community consequences of these bottlenecks for trophic configurations that vary in the number and type of interacting species and in the degree of ontogenetic niche shifts exhibited by their individuals They also demonstrate how insights into the effects of maturation and reproduction limitation on community equilibrium carry over to the dynamics of size structured populations and give rise to different types of cohort driven cycles Featuring numerous examples and tests of modeling predictions this book provides a pioneering and extensive theoretical and empirical treatment of the ecology of ontogenetic growth and development in organisms emphasizing the importance of an individual based perspective for understanding population and community dynamics

Human Biology: Ecology Craig H. Heller, 1999

Encyclopedia of Ecology and Environmental Management, 2009-07-15 The Encyclopedia of Ecology and Environmental Management addresses the core definitions and issues in pure and applied ecology It is neither a short entry dictionary nor a long entry encyclopedia but lies somewhere in between The mixture of short entry definitions and long entry essays gives a comprehensive and up to date alphabetical guide to over 3000 topics and allows any subject to be accessed to varying levels of detail while the longer entries provide general reviews of subjects the short definitions provide

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