

Lab Report for Population Dynamics Lab

Population Dynamics Lab Report 1

After we have the data and the model, we can start to analyze the data and the model. In this report, we will discuss the results of our analysis and the model we have developed.

Introduction

Population dynamics is the study of the changes in the size and structure of a population over time.

Objectives

- To understand the factors that influence population dynamics.
- To develop a model that can predict population dynamics.
- To compare the model with the data and evaluate its accuracy.

Methodology

We used a combination of data collection and model development to study population dynamics. The data was collected from a series of experiments in which we measured the number of individuals in a population over time. The model was developed using a set of differential equations that describe the changes in the population over time.

Results: The data shows that the population size increases over time, and the rate of increase is highest when the population is small. The model predicts that the population size will continue to increase, but at a slower rate than the data shows.

The model also predicts that the population will reach a steady state, which is consistent with the data.

Discussion

- The population dynamics are highly sensitive to the initial conditions.
- The model is a good approximation of the data, but it is not perfect.

Conclusion

The population dynamics are highly sensitive to the initial conditions, and the model is a good approximation of the data, but it is not perfect. The model predicts that the population will reach a steady state, which is consistent with the data.

Data and Observations

Table 1 shows the data collected during the experiment.

Time	Starting Size (individuals)	Starting Age (years)	Ending Size (individuals)	Ending Age (years)
0	10	0	10	0
10	10	0	10	0
20	10	0	10	0

Table 2 shows the data collected during the experiment.

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**Bernd Blasius, J rgen Kurths, Lewi
Stone**



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Directory of Distance Learning Opportunities Modoc Press, Inc., 2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery information equipment requirements credit and grading information library services and accreditation *Stability in Model Populations* Laurence D.

Mueller, Amitabh Joshi, 2020-03-31 Throughout the twentieth century biologists investigated the mechanisms that stabilize biological populations populations which if unchecked by such agencies as competition and predation should grow geometrically How is order in nature maintained in the face of the seemingly disorderly struggle for existence In this book Laurence Mueller and Amitabh Joshi examine current theories of population stability and show how recent laboratory research on model populations particularly blowflies *Tribolium* and *Drosophila* contributes to our understanding of population dynamics and the evolution of stability The authors review the general theory of population stability and critically analyze techniques for inferring whether a given population is in balance or not They then show how rigorous empirical research can reveal both the proximal causes of stability how populations are regulated and maintained at an equilibrium including the relative roles of biotic and abiotic factors and its ultimate mostly evolutionary causes In the process they describe experimental studies on model systems that address the effects of age structure inbreeding resource levels and population structure on the stability and persistence of populations The discussion incorporates the authors own findings on the evolution of population stability in *Drosophila* They go on to relate laboratory work to studies of animals in the wild and to develop a general framework for relating the life history and ecology of a species to its population dynamics This accessible finely written illustration of how carefully designed experiments can improve theory will have tremendous value for all ecologists and evolutionary biologists **Population Dynamics** Maurice E. Solomon, 1973 *Population Dynamics*

and the Tribolium Model: Genetics and Demography Robert F. Costantino, Robert A. Desharnais, 2012-12-06 The study of populations is becoming increasingly focused on dynamics We believe there are two reasons for this trend The first is the impact of nonlinear dynamics with its exciting ideas and colorful language bifurcations domains of attraction chaos fractals strange attractors Complexity which is so very much a part of biology now seems to be also a part of mathematics A second trend is the accessibility of the new concepts The barriers to communication between theorist and experimentalist seem less impenetrable The active participation of the experimentalist means that the theory will obtain substance Our role is the

application of the theory of dynamics to the analysis of biological populations We began our work early in 1979 by writing an ordinary differential equation for the rate of change in adult numbers which was based on an equilibrium model proposed a decade earlier During the next few months we filled our notebooks with straightforward deductions from the model and its associated biological implications Slowly some of the biological observations were explained and papers followed on a variety of topics genetic and demographic stability stationary probability distributions for population size population growth as a birth-death process natural selection and density dependent population growth genetic disequilibrium and the stationary stochastic dynamics of adult numbers **Population Dynamics**, 1968 *Population Dynamics in Variable Environments* Shripad Tuljapurkar, 2013-04-17

Demography relates observable facts about individuals to the dynamics of populations If the dynamics are linear and do not change over time the classical theory of Lotka 1907 and Leslie 1945 is the central tool of demography This book addresses the situation when the assumption of constancy is dropped In many practical situations a population will display unpredictable variation over time in its vital rates which must then be described in statistical terms Most of this book is concerned with the theory of populations which are subject to random temporal changes in their vital rates although other kinds of variation e g cyclical are also dealt with The central questions are how does temporal variation work its way into a population's future and how does it affect our interpretation of a population's past The results here are directed at demographers of humans and at population biologists The uneven mathematical level is dictated by the material but the book should be accessible to readers interested in population theory Readers looking for background or prerequisites will find much of it in Hal Caswell's *Matrix population models* construction analysis and interpretation Sinauer 1989 This book is in essence a progress report and is deliberately brief I hope that it is not mystifying I have not attempted to be complete about either the history or the subject although most significant results and methods are presented

Complex Population Dynamics Peter Turchin, 2003-02-02 Why do organisms become extremely abundant one year and then seem to disappear a few years later Why do population outbreaks in particular species happen more or less regularly in certain locations but only irregularly or never at all in other locations Complex population dynamics have fascinated biologists for decades By bringing together mathematical models statistical analyses and field experiments this book offers a comprehensive new synthesis of the theory of population oscillations Peter Turchin first reviews the conceptual tools that ecologists use to investigate population oscillations introducing population modeling and the statistical analysis of time series data He then provides an in-depth discussion of several case studies including the larch budmoth southern pine beetle red grouse voles and lemmings snowshoe hare and ungulates to develop a new analysis of the mechanisms that drive population oscillations in nature Through such work the author argues ecologists can develop general laws of population dynamics that will help turn ecology into a truly quantitative and predictive science *Complex Population Dynamics* integrates theoretical and empirical studies into a major new synthesis of current knowledge about population dynamics It is also a pioneering

work that sets the course for ecology's future as a predictive science *Population Dynamics* Bertram G. Jr. Murray, 2013-07-22 *Population Dynamics Alternative Models* provides a theoretical framework of population dynamics This book contains seven chapters that discuss the controversies surrounding discussions on the explicit view of the subject Chapters 1 and 2 present a general introduction to the terminology the mathematical background and the philosophical approach that lie behind the theoretical development Chapter 3 contains a series of models accounting for variations in population growth rates sizes and fluctuations while Chapter 4 examines a model accounting for the evolution of life history patterns A more detailed examination of the effects of predation on prey populations especially with respect to determining a prey population's maximum sustainable yield is explored in Chapter 5 Chapter 6 highlights the interspecific competition theory in terms of the population dynamics models presented in a previous chapter Chapter 7 summarizes the developments in the population dynamics research studies This work will be of great value to ecologists biologists and population dynamics researchers *Analytical Population Dynamics* T. Royama, 1996 *Population Biology* Alan Hastings, 2013-03-14 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 Complex Population Dynamics Bernd Blasius, Jürgen Kurths, Lewi Stone, 2007 This collection of review articles is devoted to the modeling of ecological epidemiological and evolutionary systems Theoretical mathematical models are perhaps one of the most powerful approaches available for increasing our understanding of the complex population dynamics in these natural systems Exciting new techniques are currently being developed to meet this challenge such as generalized or structural modeling adaptive dynamics or multiplicative processes Many of these new techniques stem from the field of nonlinear dynamics and chaos theory where even the simplest mathematical rule can generate a rich variety of dynamical behaviors that bear a strong analogy to biological populations **Population Biology** John Merritt Emlen, 1984 *Population Dynamics in Variable Environments* Shripad Tuljapurkar, 1985 *Mathematical Foundations of Population Dynamics* Guy Lee Curry, Richard Martin Feldman, 1987 **Population Dynamics in Variable Environments** S. D. Tuljapurkar, 1982 *Field and Laboratory Studies of the Population Dynamics, Survival and Reproduction by *Bosmina Longirostris** Theresa Elizabeth Connor, 1993 **Population Dynamics** Johannes Phillippus Degenaar, Diederik Arnoldus Scholtz, Andries Marthinus Louis Thomas, South African Association for Teachers of Biology, 1988 Population Dynamics (ELL), 2009

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