

Population Dynamics

Simulator Settings

N_0 Initial population size 100

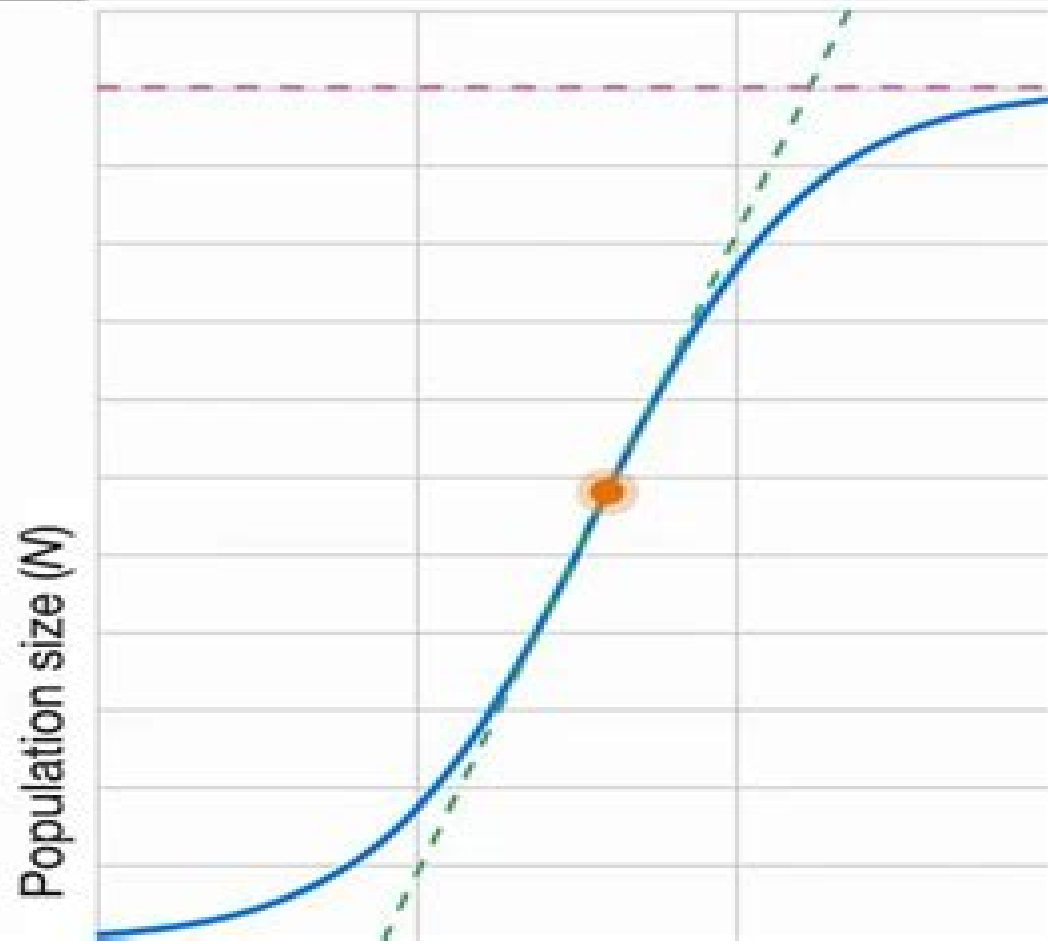
r Maximum per capita growth rate 0.6

t Time 8

K Carrying capacity 1100

N Population size scale:
Linear ☒ Log

Plot 1: Population size (N) vs. time (t)



Population Dynamics

Mimmo Iannelli, Fabio Milner



Population Dynamics:

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.

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.

Human Population Dynamics Helen Macbeth, Paul Collinson, 2002-06-20 In human populations, biological, social, spatial, ecological, and economic aspects of existence are inextricably linked, demanding a holistic approach to their study. Many undergraduate and postgraduate courses now emphasise the value of studying human populations using theoretical frameworks and methodologies from different traditional disciplines. *Human Population Dynamics* introduces such frameworks and methodologies whilst demonstrating how changes in human population structure can be addressed from several different academic perspectives. As such, the book contains contributions from world-renowned researchers in demography, social and biological anthropology, genetics, biology, sociology, ecology, history, and human geography. In particular,

the contributors emphasise the lability of many population structures and boundaries as viewed from their area of expertise This text is aimed at undergraduate students graduates and academic researchers from any academic discipline which considers human populations

Perturbation, Behavioural Feedbacks, and Population Dynamics in Social Animals

Daniel Oro,2020 In social animals perturbations may trigger specific behavioural responses with consequences for dispersal and complex population dynamics Perturbations raise the need for information gathering in order to reduce uncertainty and increase resilience Updated information is then shared within the group and social behaviours emerge as a self organized process This social information factoralizes with the size of the group and it is finally used for making crucial decisions about for instance when to leave the patch and where to go Indeed evolution has favoured philopatry over dispersal and this trade off is challenged by perturbations When perturbations accumulate over time they may decrease the suitability of the patch and erode the philopatric state until crossing a tipping point beyond which most individuals decide to disperse to better areas Initially the decision to disperse is led by a few individuals and this decision is copied by the rest of the group in an autocatalytic way This feedback process of social copying is termed runaway dispersal Furthermore social copying enhances the evolution of cultural and technological innovation which may cause additional nonlinearities for population dynamics Social information gathering and social copying have also occurred in human evolution especially after perturbations such as climate extremes and warfare In summary social feedback processes cause nonlinear population dynamics including hysteresis and critical transitions from philopatry to patch collapses and invasions which emerge from the collective behaviour of large ensembles of individuals

Population Dynamics in Prehistory and Early History

Elke Kaiser,Joachim Burger,Wolfram Schier,2012-07-04 Migrations and population dynamics are considered very problematic topics in the fields of ancient studies Recent scholarship in pre historical population has generated new impulses by using scientific approaches using radiogenic and stable isotopes and palaeogenetics as well as computer simulation As a result the state of migration research has undergone rapid change Several research groups presented papers at aconference held in Berlin in 2010 addressing specific historical aspects of population dynamics and migration with no chronological or geographical restrictions in the light of cutting edge bio archaeological research This volume divided into three larger thematic sections isotope analysis population genetics and modelling and computer simulation presents experiences and insights about methodological approaches research results and prospects for future research in this area in a varied collection of papers Scholars from widely diverse scientific disciplines present their approaches findings and interpretations to an audience far broader than the circles of the individual disciplines

Modeling weed population dynamics in Conservation Agriculture systems

Dr Jose Gonzalez-Andujar,Prof Cesar Fernandez-Quintanilla,2025-07-17 We have available a relatively rich arsenal of platforms satellites airplanes UAVs combines ATVs sensors and image processing procedures to detect weeds at various spatial and temporal scales Up to now these technologies have been mainly used for

map based targeted herbicide spraying improving the efficiency of this operation In addition they have been used for map based mechanical weeding tools facilitating the replacement of herbicide interventions In the future weed scouting may be used in the development of other low environmentally impacting interventions competitive varieties improved rotations and tillage practices In addition it may be used in the redesign of weed management systems facilitating collaborative research providing new agroecological knowledge and improved cropping systems and allowing an automatic assessment of the impact of control activities

Forest Insect Population Dynamics, Outbreaks, And Global Warming Effects A. S. Isaev, Vladislav G. Soukhovolsky, O. V. Tarasova, E. N. Palnikova, A. V. Kovalev, 2017-03-21 This new approach to insect modeling discusses population dynamics regularities control theory theory of transitions and describes methods of population dynamics and outbreaks modeling for forest phyllophagous insects and their effects on global climate change Research in insect population dynamics is important for more reasons than just protecting forest communities Insect populations are among the main ecological units included in the analysis of stability of ecological systems Moreover it is convenient to test new methods of analyzing population and community stability on the insect related data as by now ecologists and entomologists have accumulated large amounts of such data In this book the authors analyze population dynamics of quite a narrow group of insects forest defoliators It is hoped that the methods proposed herein for the analysis of population dynamics of these species may be useful and effective for analyzing population dynamics of other animal species and their effects and role in global warming What can insects tell us about our environment and our ever changing climate It is through studies like this one that these important answers can be obtained along with data on the insects and their behaviors themselves The authors present new theories on modeling and data accumulation using cutting edge processes never before published for such a wide audience This volume presents the state of the art in the science and it is an essential piece of any entomologist's and forest engineer's library

Population Dynamics in Ecological Space and Time Olin E. Rhodes, Ronald K. Chesser, Michael H. Smith, 1996-08 As profound threats to ecosystems increase worldwide ecologists must move beyond studying single communities at a single point in time All of the dynamic interconnected spatial and temporal processes that determine the distribution and abundance of species must be understood in order to develop new conservation and management strategies This volume is the first to integrate mathematical and biological approaches to these crucial topics The editors include not only a wide variety of theoretical approaches but also a broad range of experimental and field studies with chapters written by renowned experts in community ecology ecological modeling population genetics and conservation biology In addition to providing new insights into well known topics such as migration the authors also introduce some less familiar subjects including bacterial population genetics and ecotoxicology For anyone interested in the study management and conservation of populations this book will prove to be a valuable resource

An Introduction to Structured

Population Dynamics J. M. Cushing, 1998-01-01 This monograph introduces the theory of structured population dynamics

and its applications focusing on the asymptotic dynamics of deterministic models Bayesian Analysis of Spatially Structured Population Dynamics Qing Zhao, 2024-10-30 The book introduces a series of state of art Bayesian models that can be used to understand and predict spatially structured population dynamics in our changing world Several chapters are devoted to introducing models that utilize detection non detection data count data combined count and capture recapture data and spatial capture recapture data respectively The book provides R code of Metropolis Hastings algorithms that allow efficient computing of these complex models The book is aimed at graduate students and researchers who are interested in using and further developing these models 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 seemless 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 **Linking Habitat Quality to Population Dynamics for Conservation Decision Making** David R. Breininger, Doug P. Armstrong, Robert C. Lacy, James Nichols, 2025-04-09 Endangered Species Recovery planning is often based on predictions from population models Species recovery is contingent on habitat restoration including reduction of threats such as predators and parasites However population predictions are rarely linked to habitat management meaning that management cannot be easily guided by most formal decision making frameworks Predicted recovery trajectories may depend not only on the type and extent of restoration but also the timing For example populations may initially continue to decline as habitat restoration takes place and their genetic diversity might need to be maintained during that process There is also often considerable uncertainty about the effectiveness of proposed management in improving habitat quality and the effects of those improvements on population growth rates of the species targeted for recovery We seek examples of approaches integrating habitat restoration and population dynamics to guide decision making One example is where population data e.g. occupancy and habitat dynamics e.g. transition probabilities between states are directly integrated into a statistical likelihood

Another uses a metamodel to combine different interdisciplinary models e.g. population, habitat, disease, predator-prey to represent a more complex system integrating the flow of information and sequences of events among models. Decision frameworks to enhance species recovery could include management of relatively natural areas but also more intensively managed areas such as zoos or fragmented landscape with minimal long-term conservation potential for some species. Decision frameworks will ideally include adaptive management i.e. re-current decisions recognizing that conservation decisions often need to begin imminently and that delaying action is a decision. We invite articles that include several of the following elements in the context of conservation decision making: Explaining why it is important to consider animal or plant population and habitat dynamics together; Case studies, models or other demonstrations of how habitat and population dynamics should or can be linked; Examples may include remnant populations but also recent or prospective translocations; Explicit or decision-making approaches including adaptive management for linking habitat and populations for conservation to guide conservation; Showing how loss of genetic variation in small populations can affect decisions given the time needed to restore habitat; reduced toxins introduced; predators; disease; Showing how variation in population and habitats over time and/or space are important for decisions about species recovery.

Population Dynamics of Commercial Fish in Inland Reservoirs L.A. Kuderskii, 2017-10-19 This text analyzes the structure of fish populations in inland reservoirs based on absolute values of their mass. The structure of population and its changes have been examined in seven fish species from small lakes, two from large lakes and seven from large reservoirs in plains. Special attention has been paid to the main indicator of the structure of population: correlation between the age of ichthyomass and mass maturation.

The Basic Approach to Age-Structured Population Dynamics Mimmo Iannelli, Fabio Milner, 2017-08-27 This book provides an introduction to age-structured population modeling which emphasizes the connection between mathematical theory and underlying biological assumptions. Through the rigorous development of the linear theory and the nonlinear theory alongside numerics, the authors explore classical equations that describe the dynamics of certain ecological systems. Modeling aspects are discussed to show how relevant problems in the fields of demography, ecology and epidemiology can be formulated and treated within the theory. In particular, the book presents extensions of age-structured modeling to the spread of diseases and epidemics while also addressing the issue of regularity of solutions, the asymptotic behavior of solutions and numerical approximation. With sections on transmission models, non-autonomous models and global dynamics, this book fills a gap in the literature on theoretical population dynamics. The Basic Approach to Age-Structured Population Dynamics will appeal to graduate students and researchers in mathematical biology, epidemiology and demography who are interested in the systematic presentation of relevant models and mathematical methods.

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

Population Dynamics and International Violence Nazli Choucri,1974 Population Dynamics and Laboratory Ecology Robert Desharnais,2005-08-04 Population Dynamics and Laboratory Ecology highlights the contributions laboratory studies are making to our understanding of the dynamics of ecological and evolutionary systems Chapters address the scientific rationale for laboratory ecology its historical role within the broader discipline and recent advances in research The book presents results from a wide range of laboratory systems including insects mites plankton protists and microbes A common theme throughout the book is the value of microcosm studies in advancing our knowledge of ecological and evolutionary principles Each chapter is authored by scientists who are leading experts in their fields The book addresses fundamental questions that are of interest to biologists whether they work in the laboratory or field or whether they are primarily empiricists or theorists Details a scientific rationale for laboratory systems in ecological and evolutionary studies Offers a view on historical role of laboratory studies Includes examples of recent research advances in ecology and evolution using laboratory systems ranging from insects to microbes Integrates mathematics statistics and experimental studies

Population Dynamics C. Y. Cyrus Chu,1998-09-03 Population Dynamics fills the gap between the classical supply side population theory of Malthus and the modern demand side theory of economic demography In doing so author Cyrus Chu investigates specifically the dynamic macro implications of various static micro family economic decisions Holding the characteristic composition of the macro population to always be an aggregate result of some corresponding individual micro decision Chu extends his research on the fertility related decisions of families to an analysis of other economic determinations Within this framework Chu studies the income distribution attitude composition job structure and aggregate

savings and pensions of the population While in some cases a micro macro connection is easily established under regular behavioral assumptions in several chapters Chu enlists the mathematical tool of branching processes to determine the connection Offering a wealth of detail this book provides a balanced discussion of background motivation theoretical characterization and empirical evidence in an effort to bring about a renewal in the economic approach to population dynamics This welcome addition to the research and theory of economic demography will interest professional economists as well as professors and graduate students of economics

Modelling Population Dynamics K. B. Newman, S. T. Buckland, B. J. T. Morgan, R. King, D. L. Borchers, D. J. Cole, P. Besbeas, O. Gimenez, L. Thomas, 2014-07-16 This book gives a unifying framework for estimating the abundance of open populations populations subject to births deaths and movement given imperfect measurements or samples of the populations The focus is primarily on populations of vertebrates for which dynamics are typically modelled within the framework of an annual cycle and for which stochastic variability in the demographic processes is usually modest Discrete time models are developed in which animals can be assigned to discrete states such as age class gender maturity population within a metapopulation or species for multi species models The book goes well beyond estimation of abundance allowing inference on underlying population processes such as birth or recruitment survival and movement This requires the formulation and fitting of population dynamics models The resulting fitted models yield both estimates of abundance and estimates of parameters characterizing the underlying processes

Differential Equations and Population Dynamics I Arnaud Ducrot, Quentin Griette, Zhihua Liu, Pierre Magal, 2022-06-20 This book presents the basic theoretical concepts of dynamical systems with applications in population dynamics Existence uniqueness and stability of solutions global attractors bifurcations center manifold and normal form theories are discussed with cutting edge applications including a Holling s predator prey model with handling and searching predators and projecting the epidemic forward with varying level of public health interventions for COVID 19 As an interdisciplinary text this book aims at bridging the gap between mathematics biology and medicine by integrating relevant concepts from these subject areas making it self sufficient for the reader It will be a valuable resource to graduate and advance undergraduate students for interdisciplinary research in the area of mathematics and population dynamics

Reviewing **Population Dynamics**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Population Dynamics**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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