

Ecosystem



Community



Population



Individual



Biology Of Populations

A. V. Yablokov



Biology Of Populations:

Population Biology Philip W. Hedrick, 1984 **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 **Introduction to Population Biology** Dick Neal, 2004 Provides a quantitative and Darwinian perspective on population biology with problem sets simulations and worked examples to aid the student *The Biology of Population Growth* Raymond Pearl, 1925 *Primer Of Population Biology* Edward O. Wilson, William H. Bossert, 1971 How to learn population biology Population genetics Ecology Biogeography species equilibrium theory *Population Biology and Evolution* K. Wöhrmann, V. Löschcke, 2012-12-06 This volume contains the papers presented at a symposium on population biology sponsored by the Deutsche Forschungsgemeinschaft It was held at the guest house of the University of Tübingen at Oberjoch on May 15 19 1983 Prior to this conference a small group of European biologists had met in Berlin June 1981 and Pavia September 1982 to discuss research problems on the borderline between population genetics and evolutionary ecology From the contributions and discussions at these meetings it became evident that the unification of approaches to evolutionary problems in population genetics and evolutionary ecology has not yet been successful and requires further efforts It was the consensus that a larger symposium with international participation would be helpful to confront and discuss the different approaches to population biology in order to assess where we are now and where we should be going As a result an organizational committee was formed F Christiansen S Jayakar V Loeschcke W Scharloo and K Wöhrmann to identify topics that seemed at least to them to be fruitful in tackling problems in population biology Consequently a number of colleagues were asked to participate in the meeting We have divided this book into chapters corresponding to the eight topics chosen The volume begins with the relation between genotype and phenotype and is followed by a chapter on quantitative genetics and selection in natural populations **Introduction to Population Biology** Dick Neal, 2018-11-29 How do plant and animal populations change genetically to evolve and adapt to their local environments How do populations grow and interact with one another through competition and predation How does behaviour influence ecology and evolution This second edition of Dick Neal's unique textbook on population biology addresses these questions and offers a comprehensive analysis of evolutionary theory in the areas of ecology population genetics and behaviour Taking a quantitative and Darwinian perspective Neal uses

mathematical models to develop the basic theory of population processes Key features in this edition include new chapters on inbreeding and species interactions and community structure a modified structure in Part II more recent empirical examples to illustrate the application of theoretical models to the world around us and end of chapter problems to help students with self assessment A series of spreadsheet simulations have also been conveniently located online for students to further improve their understanding of such models *The Evolution of Population Biology* Rama S. Singh, Marcy K.

Uyenoyama, 2004-01-15 This 2004 collection of essays deals with the foundation and historical development of population biology and its relationship to population genetics and population ecology on the one hand and to the rapidly growing fields of molecular quantitative genetics genomics and bioinformatics on the other Such an interdisciplinary treatment of population biology has never been attempted before The volume is set in a historical context but it has an up to date coverage of material in various related fields The areas covered are the foundation of population biology life history evolution and demography density and frequency dependent selection recent advances in quantitative genetics and bioinformatics evolutionary case history of model organisms focusing on polymorphisms and selection mating system evolution and evolution in the hybrid zones and applied population biology including conservation infectious diseases and human diversity

This is the third of three volumes published in honour of Richard Lewontin [Introduction to Population Biology & Evolution](#) Otto Thomas Solbrig, 1981 **Population Biology** K. Wöhrmann, S.K. Jain, 2012-12-06 Fascinated by the diversity of living organisms humans have always been curious about its origin Darwin was the first to provide the scholarly and persuasive thesis for gradual evolution and speciation under natural selection Although we now have much information on evolution we still don't understand it in detail Many questions still remain open due to the complexity and multiplicity of interacting factors Several approaches mainly arising from population ecology and genetics are presented in this book in order to help understand genetic variation and evolution **The Biology of Population Growth** Raymond Pearl, 1925

Population Biology A. V. Yablokov, 1986 *Population Biology and Evolution* Richard C. Lewontin, 1968 *Population Ecology of Individuals* Adam Lomnicki, 2020-03-31 A common tendency in the field of population ecology has been to overlook individual differences by treating populations as homogeneous units conversely in behavioral ecology the tendency has been to concentrate on how individual behavior is shaped by evolutionary forces but not on how this behavior affects population dynamics Adam Lomnicki and others aim to remedy this one sidedness by showing that the overall dynamical behavior of populations must ultimately be understood in terms of the behavior of individuals Professor Lomnicki's wide ranging presentation of this approach includes simple mathematical models aimed at describing both the origin and consequences of individual variation among plants and animals The author contends that further progress in population ecology will require taking into account individual differences other than sex age and taxonomic affiliation unequal access to resources for instance Population ecologists who adopt this viewpoint may discover new answers to classical questions of population

ecology Partly because it uses a variety of examples from many taxonomic groups this work will appeal not only to population ecologists but to ecologists in general

Applied Population Biology S.K. Jain, L.W. Botsford, 1992-03-31 An increasing variety of biological problems involving resource management conservation and environmental quality have been dealt with using the principles of population biology defined to include population dynamics genetics and certain aspects of community ecology There appears to be a mixed record of successes and failures and almost no critical synthesis or reviews that have attempted to discuss the reasons and ways in which population biology with its remarkable theoretical as well as experimental advances could find more useful application in agriculture forestry fishery medicine and resource and environmental management This book provides examples of state of the art applications by a distinguished group of researchers in several fields The diversity of topics richly illustrates the scientific and economic breadth of their discussions as well as epistemological and comparative analyses by the authors and editors Several principles and common themes are emphasized and both strengths and potential sources of uncertainty in applications are discussed This volume will hopefully stimulate new interdisciplinary avenues of problem solving research

Wie the Biology of Populations
MacArthur, 1967-01-01

Population Principles in Research Into Natural Focality of Zoonoses A. V. Yablokov, Éduard Isaevich Korenberg, 1989 Despite various studies carried out by scientific centres for population biology research in the USSR many findings remain unknown to Western scientists This collection of reviews on population biology in the USSR attempts to remedy the situation The areas covered include surveys of animal population biology studies population genetics population ecology and ecophysiology population ethology population cytogenetics and population radioecology Also explored are the population biology of amphibians and invertebrates the population biology of the lower taxa plants protists and microorganisms and some general problems of population biology

Competition Models in Population Biology Paul Waltman, 1983-01-01 This book uses fundamental ideas in dynamical systems to answer questions of a biologic nature in particular questions about the behavior of populations given a relatively few hypotheses about the nature of their growth and interaction The principal subject treated is that of coexistence under certain parameter ranges while asymptotic methods are used to show competitive exclusion in other parameter ranges Finally some problems in genetics are posed and analyzed as problems in nonlinear ordinary differential equations

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 Biology K. Wöhrmann, S.K. Jain, 1990-02-28 Fascinated by the diversity of living organisms humans have always been curious about its origin Darwin was the first to provide the scholarly and persuasive thesis for gradual evolution and speciation under natural selection Although we now have much information on evolution we still don't understand it in detail Many questions still remain open due to the complexity and multiplicity of interacting factors Several approaches mainly arising from population ecology and genetics are presented in this book in order to help understand genetic variation and evolution

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