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Population  
Dynamics and the  
*Tribolium* Model:  
Genetics and  
Demography



# Population Dynamics And The Tribolium Model Genetics And Demography

**Simon A. Levin**



## **Population Dynamics And The Tribolium Model Genetics And Demography:**

**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 the 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 and the Tribolium Model** Robert F. Costantino, Robert A. Desharnais, 1991-08-01 Distant Hybridization of Crop Plants G. Kalloo, J. B. Chowdhury, 2012-12-06

Wild taxa are invaluable sources of resistance to diseases insects pests nematodes temperature extremes salinity and alkalinity stresses and also of nutritional quality adaptation genetic diversity and new species Utilization of wild relatives of a crop depends largely upon its crossability relations with cultivated varieties Several wild species are not crossable with the commercial cultivars due to various isolation barriers Furthermore in a few cases hybridization is possible only in one direction and reciprocal crosses are not successful thus depriving the utilization of desired cytoplasm of many species However techniques have been developed to overcome many barriers and hybrid plants are produced New crop species have been developed by overcoming the F<sub>1</sub> sterility and producing amphidiploids and such crops are commercially being grown in the field The segregation pattern of F<sub>1</sub> hybrids produced by distant hybridization in segregating generations are different from the intervarietal hybrids In former cases generally unidirectional segregation takes place in early generations and accordingly selection procedures are adopted In most of the cases backcross or modified backcross methods have been followed to utilize wild species and thus numerous types of resistance and other economical attributes have been transferred in the recurrent parents Protoplast fusion has been amply demonstrated in a number of cases where sexual hybridization was not possible and as a result hybrids have been produced

**Evolution and Function of Heterostyly** Spencer C.H. Barrett, 2013-04-17 A century of research on heterostylous plants has passed since the publication of Charles Darwin's book *The Different Forms of Flowers on Plants of the Same Species* in 1877 summarizing

his extensive observations and experiments on these complex breeding systems involving genetic polymorphisms of floral sex organs Since then heterostylous plants have provided a rich source of material for evolutionary biologists and today they represent one of the classic research paradigms for approaches to the study of evolution and adaptation The present book is the first modern and comprehensive account of the subject In 10 chapters it is concerned with the evolution genetics development morphology and adaptive significance of heterostyly Broad syntheses of research on heterostyly as well as new theoretical ideas and experimental data are included *Biotechnology in Forage and Turf Grass Improvement* German Spangenberg, Zeng-Yu Wang, Ingo Potrykus, 2012-12-06 This book shows the significant progress made in establishing the methodological basis for the genetic manipulation of forage and turf grasses with particular emphasis on our most important temperate grasses the fescues and ryegrasses It provides detailed and beautifully illustrated descriptions of all relevant methodological aspects of molecular breeding of forage and turf grasses The topics covered range from the establishment of plant regeneration systems from in vitro cultures the recovery of haploids and somaclonal variants the combination of whole or partial genomes by somatic hybridization and the production of transgenic plants to the development of molecular markers

*Heterosis and Hybrid Rice Breeding* Sant Singh Virmani, 2012-12-06 Rice is the most important food crop of the developing world and the demand for it is growing Provided here is a concise account of hybrid breeding in rice a newly deployed breeding approach to increase the yield Research on heterosis male sterility systems outcrossing mechanisms disease insect management and grain quality considerations in hybrid rice are reviewed The book contains a wealth of useful information for practicing hybrid rice breeders seed producers researchers and students of plant breeding **Soil Mineral Stresses** Anthony R. Yeo, Timothy J. Flowers, 2012-12-06 This book is concerned with the ways in which crops might be developed or improved for soils that are agriculturally unproductive because of excesses high salinity and metal toxicity and or deficiencies of certain minerals The aim is that those working to derive crops for growth on these problem soils should be aware of the many diverse avenues that are available The methods discussed are conventional breeding selection based on knowledge of the physiological basis of tolerance the use of cell culture and cytogenetics and the exploitation of native flora

Insect Biodiversity Robert G. Foottit, Peter H. Adler, 2009-03-03 Insect Biodiversity Science and Society brings together leading scientific experts to assess the impact insects have on humankind and the earth's fragile ecosystems It examines why insect biodiversity matters and how the rapid evolution of insect species is affecting us all Insects and related arthropods make up more than 50 percent of the known animal diversity globally yet a lack of knowledge about insects is hindering the advance of science and society This book explores the wide variety in type and number of insect species and their evolutionary relationships Case studies offer assessments on how insect biodiversity can help meet the needs of a rapidly expanding human population and also examine the consequences that an increased loss of insect species will have on the world The book concludes that a better understanding of the biology and ecology of insects is the only way to sustainably

manage ecosystems in an ever changing global environment      *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      *Advances in Dynamic Game Theory* Steffen Jorgensen, Marc Quincampoix, Thomas L. Vincent, 2007-11-15 This collection of selected contributions gives an account of recent developments in dynamic game theory and its applications covering both theoretical advances and new applications of dynamic games in such areas as pursuit evasion games ecology and economics Written by experts in their respective disciplines the chapters include stochastic and differential games dynamic games and their applications in various areas such as ecology and economics pursuit evasion games and evolutionary game theory and applications The work will serve as a state of the art account of recent advances in dynamic game theory and its applications for researchers practitioners and advanced students in applied mathematics mathematical finance and engineering      **Structured-Population Models in Marine, Terrestrial, and Freshwater Systems** Shripad Tuljapurkar, Hal Caswell, 2012-12-06 In the summer of 1993 twenty six graduate and postdoctoral students and fourteen lecturers converged on Cornell University for a summer school devoted to structured population models This school was one of a series to address concepts cutting across the traditional boundaries separating terrestrial marine and freshwater ecology Earlier schools resulted in the books *Patch Dynamics* S A Levin T M Powell a book on food webs is in preparation Models of population structure differences among individuals due to age size developmental stage spatial location or genotype have an important place in studies of all three kinds of ecosystem In choosing the participants and lecturers for the school we selected for diversity biologists who knew some mathematics and mathematicians who knew some biology field biologists sobered by encounters with messy data and theoreticians intoxicated by the elegance of the underlying mathematics people concerned with long term evolutionary problems and people concerned with the acute crises of conservation biology For four weeks these perspectives swirled in discussions that started in the lecture hall and carried on into the sweltering Ithaca night Diversity may not increase stability but it surely makes things interesting      *Mathematical Models in Population Biology and Epidemiology* Fred Brauer, Carlos Castillo-Chavez, 2011-11-09 The goal of this book is to search for a balance between simple and analyzable models and unsolvable models which are capable of addressing important questions on population biology Part I focusses on single species simple models including those which have been used to predict the growth of human and animal population in the past Single population models are in some sense the building blocks of more realistic models the subject of Part II Their role is fundamental to the study of ecological and demographic processes including the role of population structure and spatial heterogeneity the subject of Part III This book which will include both examples and exercises is of use to practitioners graduate students and scientists working in the field      *Sensitivity Analysis: Matrix Methods in Demography and Ecology* Hal Caswell, 2019-04-02 This open access book shows how to use sensitivity analysis in demography It presents new methods

for individuals cohorts and populations with applications to humans other animals and plants The analyses are based on matrix formulations of age classified stage classified and multistate population models Methods are presented for linear and nonlinear deterministic and stochastic and time invariant and time varying cases Readers will discover results on the sensitivity of statistics of longevity life disparity occupancy times the net reproductive rate and statistics of Markov chain models in demography They will also see applications of sensitivity analysis to population growth rates stable population structures reproductive value equilibria under immigration and nonlinearity and population cycles Individual stochasticity is a theme throughout with a focus that goes beyond expected values to include variances in demographic outcomes The calculations are easily and accurately implemented in matrix oriented programming languages such as Matlab or R Sensitivity analysis will help readers create models to predict the effect of future changes to evaluate policy effects and to identify possible evolutionary responses to the environment Complete with many examples of the application the book will be of interest to researchers and graduate students in human demography and population biology The material will also appeal to those in mathematical biology and applied mathematics

Chaos in Ecology J. M. Cushing, 2003 It is impossible to predict the exact behavior of all biological systems and how these same systems are exemplified by patterns of complexity and regularity Decades of research in ecology have documented how these sorts of patterns are the consequences of deceptively simple rules that determine the nature of the patterns created Chaos in Ecology will explain how simple beginnings result in complicated results Chaos in Ecology is the inaugural volume of Theoretical Ecology Series The authors of this volume have employed data from a proven model system in population dynamics As a result this book will be of interest to anyone interested in the ecology of populations It is impossible to predict the exact behavior of almost all biological systems and yet these same systems are exemplified by patterns of complexity and regularity Decades of research in ecology have documented that these sorts of patterns are the consequence of deceptively simple rules that determine the nature of the patterns created In essence simple beginnings result in complicated results This realization is captured in the mathematical notion of chaos and is rendered intuitive by the oft repeated metaphor A butterfly beats its wings in China and causing a thunderstorm in the Midwest Thus seemingly trivial initial conditions e g a butterfly in China cascade through a series of intermediate events to create a significant large scale event e g a thunderstorm Chaos in Ecology is the inaugural volume of Theoretical Ecology Series The authors of this volume have employed data from a proven model system in population dynamics As a result this book will be of interest to anyone interested in the ecology of populations

*Matrix Population Models* Hal Caswell, 2001 DEVELOPING MATRICES AND USING DATA PROCESSING TO CREATE POPULATION MODELS

**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 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

**Frontiers in Mathematical Biology** Simon A. Levin, 2013-03-13 From a mathematical point of view physiologically structured population models are an underdeveloped branch of the theory of infinite dimensional dynamical systems We have called attention to four aspects i A choice has to be made about the kind of equations one extracts from the predominantly verbal arguments about the basic assumptions and subsequently uses as a starting point for a rigorous mathematical analysis Though differential equations are easy to formulate different mechanisms don't interact in infinitesimal time intervals and so end up as separate terms in the equations they may be hard to interpret rigorously as infinitesimal generators Integral equations constitute an attractive alternative ii The ability of physiologically structured population models to increase our understanding of the relation between mechanisms at the *i* level and phenomena at the *p* level will depend strongly on the

development of dynamical systems lab facilities which are applicable to this class of models iii Physiologically structured population models are ideally suited for the formulation of evolutionary questions Apart from the special case of age see Charlesworth 1980 Yodzis 1989 Caswell 1989 and the references given there hardly any theory exists at the moment This will hopefully change rapidly in the coming years Again the development of appropriate software may turn out to be crucial

**Books in Print**, 1991      **Evolution in Age-Structured Populations** Brian Charlesworth, 1994-06-30 The populations of many species of animals and plants are age structured i.e. the individuals present at any one time were born over a range of different times and their fertility and survival depend on age The properties of such populations are important for interpreting experiments and observations on the genetics of populations for animal and plant breeding and for understanding the evolution of features of life histories such as senescence and time of reproduction In this new edition Brian Charlesworth provides a comprehensive review of the basic mathematical theory of the demography and genetics of age structured populations The mathematical level of the book is such that it will be accessible to anyone with a knowledge of basic calculus and linear algebra



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