

# **STAGE-STRUCTURED POPULATIONS**

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**Bryan F.J. Manly**

**population and community biology series**

# Stage Structured Populations

**Simon N. Wood, Roger M. Nisbet**



## **Stage Structured Populations:**

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*Stage-Structured Populations* Bryan F.J. Manly, 2014-03-14 This book provides a review of methods for obtaining and analysing data from stage structured biological populations The topics covered are sampling designs Chapter 2 the estimation of parameters by maximum likelihood Chapter 3 the analysis of sample counts of the numbers of individuals in different stages at different times Chapters 4 and 5 the analysis of data using Leslie matrix types of model Chapter 6 and key factor analysis Chapter 7 There is also some discussion of the approaches to modelling and estimation that have been used in five studies of particular populations Chapter 8 There is a large literature on the modelling of biological populations and a multitude of different approaches have been used in this area The various approaches can be classified in different ways Southwood 1978 ch 12 but for the purposes of this book it is convenient to think of the three categories mathematical statistical and predictive modelling Mathematical modelling is concerned largely with developing models that capture the most important qualitative features of population dynamics In this case the models that are developed do not have to be compared with data from natural populations As representations of idealized systems they can be quite informative in showing the effects of changing parameters indicating what factors are most important in promoting stability and so on

*Estimation of Mortality Rates in Stage-Structured Population* Simon N. Wood, Roger M. Nisbet, 2013-03-08 The stated aims of the Lecture Notes in Biomathematics allow for work that is unfinished or tentative This volume is offered in that spirit The problem addressed is one of the classics of statistical ecology the estimation of mortality rates from stage frequency data but in tackling it we found ourselves making use of ideas and techniques very different from those we expected to use and in which we had no previous experience Specifically we drifted towards consideration of some rather

specific curve and surface fitting and smoothing techniques We think we have made some progress otherwise why publish but are acutely aware of the conceptual and statistical clumsiness of parts of the work Readers with sufficient expertise to be offended should regard the monograph as a challenge to do better The central theme in this book is a somewhat complex algorithm for mortality estimation detailed at the end of Chapter 4 Because of its complexity the job of implementing the method is intimidating Any reader interested in using the methods may obtain copies of our code as follows

- 1 Hutchinson and deHoog s algorithm for fitting smoothing splines by cross validation
- 2 Cubic covariant area approximating splines
- 3 Cubic interpolating splines
- 4 Cubic area matching splines
- 5 Hyman s algorithm for monotonic interpolation based on cubic splines

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- 6 Positive constrained interpolation
- 7 Positive constrained area matching
- 8 The full method from chapter 4
- 9 The simpler method from chapter 4

**Optimal Control of Age-structured Populations in Economy, Demography, and the Environment** Raouf Boucekkine, Natali Hritonenko, Yuri Yatsenko, 2013-05-13 This book covers a wide range of topics within mathematical modelling and the optimization of economic demographic technological and environmental phenomena Each chapter is written by experts in their field and represents new advances in modelling theory and practice These essays are exemplary of the fruitful interaction between theory and practice when exploring global and local changes The unifying theme of the book is the use of mathematical models and optimization methods to describe age structured populations in economy demography technological change and the environment Emphasis is placed on deterministic dynamic models that take age or size structures delay effects and non standard decision variables into account In addition the contributions deal with the age structure of assets resources and populations under study Interdisciplinary modelling has enormous potential for discovering new insights in global and regional development Optimal Control of Age structured Populations in Economy Demography and the Environment is a rich and excellent source of information on state of the art modelling expertise and references The book provides the necessary mathematical background for readers from different areas such as applied sciences management sciences and operations research which helps guide the development of practical models As well as this the book also surveys the current practice in applied modelling and looks at new research areas for a general mathematical audience This book will be of interest primarily to researchers postgraduate students as well as a wider scientific community including those focussing on the subjects of applied mathematics environmental sciences economics demography management and operations research

**The Dynamics of Physiologically Structured Populations** Johan A. Metz, Odo Diekmann, 2014-03-11

**Basins of Attraction in Stage Structured Populations** Georgia Waite Pfeiffer, 2011

**Interactions in a Stage-structured Species** Jessica Erin Rettig, 1999

**Encyclopedia of Ecology** Brian D. Fath, 2018-08-23 Encyclopedia of Ecology Second Edition Four Volume Set continues the acclaimed work of the previous edition published in 2008 It covers all scales of biological organization from organisms to populations to communities and ecosystems Laboratory field simulation modelling

and theoretical approaches are presented to show how living systems sustain structure and function in space and time New areas of focus include micro and macro scales molecular and genetic ecology and global ecology e g climate change earth transformations ecosystem services and the food water energy nexus are included In addition new international experts in ecology contribute on a variety of topics Offers the most broad ranging and comprehensive resource available in the field of ecology Provides foundational content and suggests further reading Incorporates the expertise of over 500 outstanding investigators in the field of ecology including top young scientists with both research and teaching experience Includes multimedia resources such as an Interactive Map Viewer and links to a CSDMS Community Surface Dynamics Modeling System an open source platform for modelers to share and link models dealing with earth system processes

**Stochastic Stage-structured Population Model** Kiyomi Otsuka Kaskela,2004 *Estimating growth and mortality in stage-structured populations* B.J. ROTHSCILD,A.F. SHAROV,A.J. KEARSLEY,A.S. BONDARENKO,1997 *Modelling and Analysis of Stage-structured Population Dynamics* Rui Xu,2005 *Harvesting Discrete Nonlinear Age and Stage Structured Populations* Wayne M. Getz,University of California, Berkeley. Institute of International Studies,1986

**Evolutionary Genetic Models of Organisms with Complex Life-histories** Maria Elvira Orive,1994 *Habitat as a Limiting Factor in Stage-structured Populations* Benjamin Scott Halpern,2003 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

*Ecology*,1928 Publishes essays and articles that report and interpret the results of original scientific research in basic and applied ecology Proceedings of the National Academy of Sciences of the United States of America,1988 The Effects of Contaminants on Ecological Systems International Association on Water Pollution Research and Control. Specialised Conference,1987

**Discrete and Continuous Dynamical Systems**,2005 *Stage-structured Demography in Stochastic Environments* Raziel Joseph Davison,2011 Populations living in natural environments experience fluctuations in

environmental conditions that drive variability in demographic rates This dissertation develops new and existing mathematical methods for studying environmental stochasticity and uses these tools to investigate the role of environmental stochasticity in driving observed population dynamics and plant life history evolution In the first two chapters I develop new approaches to a classic method in population biology the life table response experiment LTRE Whereas existing methods used time averaged demographic rates and deterministic sensitivities to decompose observed differences in population growth rates this new method allows estimation of the contributions to those differences made by variances in demographic rates as well as by mean rate values I use this stochastic LTRE to show how differential variability in the vital rates of *Anthyllis vulneraria* kidney vetch contribute to differences in the population growth rates of nine populations growing in southwest Belgium we also show how the effects of demographic rate variability depend on soil depth where the greater moisture retention of deeper soils buffers populations against the otherwise negative effects of demographic variability The second chapter provides a different approach to LTRE that uses an iterated two factor decomposition of the small noise approximation of the stochastic population growth rate to quantify contributions to that growth rate made by i mean vital rates ii temporal variability in vital rates iii elasticities of the population growth rate to individual vital rates and iv correlations between vital rates across the study period Contributions of elasticities tell us about differences in local selection pressures acting on distinct populations and contributions of correlations tell us about differences in the phenotypic tradeoffs associated with vital rates I use this new method to show how these differences drive dynamics in two species *Anthyllis vulneraria* the same populations studied in the first chapter and *Cypripedium calceolus* lady s slipper orchid In *Anthyllis vulneraria* variability in large adult fertility and seedling survival made the largest contributions there were also effects of differences in elasticities of large adult fertility and survival as well as differences in the correlations between rapid growth and survival in seedlings a survival cost of rapid early development between large adult fertility and survival a survival cost of reproduction and between large adult fertility and seedling survival In *Cypripedium calceolus* population growth rates were driven most by differences in the elasticities to the probabilities of adult stasis vs entering dormancy as well as by differences in the variability and tradeoffs associated with adult dormancy correlation played a role through differences in the survival payoff of dormancy vs the complimentary fertility cost of dormancy in terms of lost opportunity for reproduction The third and final chapter investigates the role of fire disturbance in driving the life histories and population level dynamics of five woody plant species growing in the Brazilian cerrado a savannah forest mosaic in which woody vegetation cover is primarily mediated by fire disturbance This study presents a set of diagnostics that use demographic responses to recurring disturbance to categorize species along a continuum of adaptation on one end we find resistant species that must weather disturbance in order to attain large sizes that are buffered against fire induced mortality on the other end we find resilient species that are relatively indifferent to disturbance and harness transient opportunities afforded

by early post fire successional habitats in order to take advantage of increased nutrient availability and reduced competition. Each of these chapters uses stochastic demographic analysis to extend theory describing the dynamics of populations in variable environments. Together, these studies present a variegated perspective on the role of environmental stochasticity that provides new methods and novel perspectives that should be useful in the study of population biology and life history evolution.

## Whispering the Secrets of Language: An Mental Quest through **Stage Structured Populations**

In a digitally-driven world where monitors reign great and quick conversation drowns out the subtleties of language, the profound techniques and psychological nuances concealed within phrases often move unheard. However, set within the pages of **Stage Structured Populations** a captivating literary prize pulsating with organic feelings, lies an exceptional quest waiting to be undertaken. Penned by a skilled wordsmith, this enchanting opus encourages viewers on an introspective journey, delicately unraveling the veiled truths and profound impact resonating within the material of each word. Within the mental depths of the emotional review, we can embark upon a honest exploration of the book is core styles, dissect its captivating writing style, and succumb to the strong resonance it evokes deep within the recesses of readers hearts.

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