

Conservation Of Wildlife Populations Demography Genetics And Management

Convergent Issues in Genetics and DemographyMathematical Theories of
PopulationsEvolutionary Ecology and Demographic Population Genetics of
the Californian Serpentine Sunflower, *Helianthus Exilis*Population Dynamics
and the Tribolium Model: Genetics and DemographyPatterns of Human
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ImprovementThe Genetics of Migrant and Isolate PopulationsDemographic
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Demography and Viability of Fragmented PopulationsA Primer of Population
GeneticsPopulation and BiologyMolecular Population Genetics of Maize
Regulatory Genes During Maize EvolutionAspects of the Behavior, Population
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AnthropologyPopulation Genetics and Molecular EvolutionPopulation
Genetics and EvolutionNon-equilibrium Population GeneticsPopulation
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this volume provides up to date coverage of genetics and demography
fields that are closely related but rarely combined now especially they have
many topics and approaches in common the use of historical materials a
basic concern with heterogeneity new models of vital rates with behavioral
and biological components theories for the interplay of genetic and
demographic factors in the spread of disease as a comprehensive survey of
a fast growing field this will be a valuable source of information for a wide
spectrum of professionals in genetics population biology biostatistics social
and economic demography and anthropology

a basic model in population age structure is studied and then applied and
extended to several population phenomena

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

early developments adding genetics to demographic concepts dispersal and population distribution

this book is devoted to the collection interpretation and analysis of population genetic data among the topics included here are studies on human evolutionary history molecular techniques for generating data statistical and computational techniques for the interpretation of such data and stochastic models for genealogy and population structure the chapters reflect the close interaction between experimental molecular biologists and theoreticians the book will be useful for specialists in the area as well as mathematicians statisticians computer scientists and biologists wanting a brief overview of current problems in the field

habitat fragmentation is one of the most ubiquitous and serious environmental threats confronting the long term survival of plant and animal species worldwide as species become restricted to remnant habitats effective management for long term conservation requires a quantitative understanding of the genetic and demographic effects of habitat fragmentation and the implications for population viability this book provides a detailed introduction to the genetic and demographic issues relevant to the conservation of fragmented populations such as demographic stochasticity genetic erosion inbreeding metapopulation biology and population viability analysis the volume presents case studies on animals and plants which illustrate a variety of approaches to examining long term population viability some of the approaches include the application of molecular genetic markers the investigation of reproductive biology and the combination of demographic monitoring and modeling

the use of molecular methods to study genetic polymorphisms has made a familiarity with population genetics essential for any biologist whose work is at the population level a primer of population genetics third edition provides a concise but comprehensive introduction to population genetics the four chapters of the book address genetic variation the causes of evolution molecular population genetics and the genetic architecture of complex traits chapter end problems reinforce ideas and while there are some equations the emphasis is on explanation rather than derivation

self contained and reader friendly this volume provides a balanced blend of evolutionary theory population genetics and systematics with an emphasis on the experimental approach

elucidating the relationship between a population s history and its genetic data is a central goal of population genetics the recent deluge of genetic sequence data makes it possible to test long standing hypothesis about human demographic history and evolution and to assess the validity of

commonly used equilibrium assumptions in this thesis i focus on questions in human population genetics concerning deleterious mutational load and sex biased demography in chapter 2 i test the hypothesis that the load of deleterious alleles varies across populations and find evidence that it does possibly due to differing demographic histories in chapter 3 i present a new method to estimate the female fraction of the effective population size and apply it globally distributed data i find evidence for a pervasive female bias and a male biased bottleneck during the out of africa migration in chapter 4 i study more recent demographic events which led to the peopling of central and south america and the formation of admixed populations i apply a novel test for sex biased admixture to genomic data and find support for varying sex biased histories among populations these chapters highlight the importance of modeling demographic history in hypothesis testing and demonstrate ways in which current population genetic inference can be extended this thesis sheds light on the non equilibrium nature of human populations genetics and its results give insight into our shared history

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