

Population

A population is consists of individuals of the same species living together and can reproduce with each other for the continuation of species.



Population And The New Biology

Daniel F McAuley



Population And The New Biology:

Population and the new biology Bernard Benjamin, Peter R. Cox, John Peel, 1973 **Population and the New Biology** Bernard Benjamin, 2012-12-02 Population and the New Biology contains the papers presented at the 10th annual Symposium of the Eugenics Society and is the third publication in a trilogy on the general theme of population. Organized into 13 chapters separating the papers presented at the symposium, the book begins by discussing the production of living things by relevant methods. It also explains how to identify and care for illness and disability within a span of life and possibilities for increasing the span itself. It also talks about the biological nature of and problems of controlling common fatal diseases. The future of oral contraceptives, technology for voluntary sterilization, methods of early termination of pregnancy, and the population policies in the developing countries are shown as well. Lastly, the genetic implications, problems, and legal approaches to the new biology are given. This book will fill an important gap in the literature on the implications for population structure and growth of those advances that is known as the new biology. Population and the New Biology, 1974 **Population and New Biology** B. Benjamin, P. R. Cox, 1976 *Current Catalog* National Library of Medicine (U.S.), 1979 First multi-year cumulation covers six years 1965-70 Network Models in Population Biology E. R. Lewis, 2012-12-06 This book is an outgrowth of one phase of an upper division course on quantitative ecology given each year for the past eight at Berkeley. I am most grateful to the students in that course and to many graduate students in the Berkeley Department of Zoology and Colleges of Engineering and Natural Resources whose spirited discussions inspired much of the book's content. I also am deeply grateful to those faculty colleagues with whom at one time or another I have shared courses or seminars in ecology or population biology: D. M. Auslander, L. Demetrius, G. Oster, O. H. Paris, F. A. Pitelka, A. M. Schultz, Y. Takahashi, D. B. Tyler, and P. Vogelhut, all of whom contributed substantially to the development of my thinking in those fields to my departmental colleagues E. Polak and A. J. Thomasian who guided me into the literature on numerical methods and stochastic processes, and to the graduate students who at one time or another have worked with me on population biology projects: L. M. Brodnax, S. P. Chan, A. Elterman, G. C. Ferrell, D. Green, C. Hayashi, K. L. Lee, W. F. Martin Jr., D. May, J. Stamnes, G. E. Swanson, and I. Weeks who together undoubtedly provided me with the greatest inspiration. I am indebted to the copy editing and production staff of Springer Verlag, especially to Ms. M. Muzenieck for their diligence and skill, and to Mrs. Alice Peters, biomathematics editor, for her patience. *Theory of Wildlife Population Ecology* Bruce D. Leopold, 2018-10-25 Understanding wildlife population ecology is vital for all wildlife managers and conservation biologists. Leopold draws on 30 years of research and teaching experience to give students and natural resource professionals the foundation they need to effectively manage wildlife populations. He begins with the key statistical concepts and research approaches necessary to gain insight into various models of population dynamics. The many factors that influence wildlife populations are thoroughly explored, and their consequences are investigated. In addition, the author presents techniques for analyzing wildlife harvest.

data and a lucid discussion of valuable wildlife census methods Frequent examples of foundational literature supplement each chapter with applications of the theories and provide a concise compendium of fundamental concepts of population ecology Abundant statistical exercises reinforce students learning throughout the text E-biology Ii (science and Technology)' 2003 Ed. , **National Library of Medicine Current Catalog** National Library of Medicine (U.S.),1971 First multi year cumulation covers six years 1965 70 Analytical Theory of Biological Populations Alfred J. Lotka,2013-06-29 In the 50 years that have passed since Alfred Latka s death in 1949 his position as the father of mathematical demography has been secure With his first demographic papers in 1907 and 1911 the latter co authored with F R Sharpe he laid the foundations for stable population theory and over the next decades both largely completed it and found convenient mathematical approximations that gave it practical applica tions Since his time the field has moved in several directions he did not foresee but in the main it is still his Despite Latka s stature however the reader still needs to hunt through the old journals to locate his principal works As yet no exten sive collections of his papers are in print and for his part he never as sembled his contributions into a single volume in English He did so in French in the two part Theorie Analytique des Associations Biologiques 1934 1939 Drawing on his Elements of Physical Biology 1925 and most of his mathematical papers Latka offered French readers insights into his biological thought and a concise and mathematically accessible summary of what he called recent contributions in demographic analy sis We would be accurate in also calling it Latka s contributions in demographic analysis **Population and the New Biology** Eugenics Society (London, England),1974 Population and the New Biology **Margaret Sanger's Eugenic Legacy** Angela Franks,2014-12-24 Margaret Sanger the American birth control and population control advocate who founded Planned Parenthood stands like a giant among her contemporaries With her dominating yet winning personality she helped generate shifts of opinion on issues that were not even publicly discussed prior to her activism while her leadership was arguably the single most important factor in achieving social and legislative victories that set the parameters for today s political discussion of family planning funding population control aid and even sex education This work addresses Sanger s ideas concerning birth control eugenics population control and sterilization against the backdrop of the larger eugenic context An Introduction to Population Genetics Theory J.F. Crow,2017-01-01 This text book originally published in 1970 presents the field of population genetics starting with elementary concepts and leading the reader well into the field It is concerned mainly with population genetics in a strict sense and deals primarily with natural populations and less fully with the rather similar problems that arise in breeding live stock and cul t i vat ed plans The emphasis is on the behavior of genes and population attributes under natural selection where the most important measure is Darwinian fitness This text is intended for graduate students and advanced undergraduates in genetics and population biology This book steers a middle course between completely verbal biological arguments and the rigor of the mathematician The first two thirds of the book do not require advanced mathematical

background An ordinary knowledge of calculus will suffice The latter parts of the book which deal with population stochastically use more advanced methods **List of Journals Indexed in Index Medicus** National Library of Medicine (U.S.),1979 Issues for 1977 1979 include also Special List journals being indexed in cooperation with other institutions Citations from these journals appear in other MEDLARS bibliographies and in MEDLING but not in Index medicus

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

Demographic Aspects of Aging and the Older Population in the United States Jacob S. Siegel,1978 **Theories of Populations in Biological Communities** F. B. Christiansen,T. M. Fenchel,2012-12-06 When we wrote this book it was admittedly first of all for the sake of our own enjoyment and enlightenment We will however add our sincerely meant but rather traditional hope that it will prove interesting to graduate students to colleagues and to anyone else who will bother to read it The book was written as a joint effort by a theoretically inclined population geneticist and an experimental ecologist who share opinions on what is interesting in the field of theoretical ecology While we believe that qualified natural history is of indisputable intrinsic value we think that ecology is a natural science which should have a theoretical framework On the other hand theoretical ecology must draw its inspiration from nature and yield results which give insight into the findings of the naturalist and inspire him to make new observations and experiments Without this relationship between field biology and theory mathematical ecology may become a discipline totally divorced from biology and solve albeit interesting mathematical problems without significance for ecology Therefore in addition to theoretical population biology including some original models the book also discusses observational data from nature to show how the theoretical models give new insight and how observations give rise to new theoretical thought While no book on ecology could do without the mention of the hare lynx example and ours is therefore no exception we have tried to bring new examples mainly derived from one of the authors field of experience microbial ecology and marine biology Human Population Genetics John H. Relethford,2012-02-15 Introductory guide to human population genetics and microevolutionary theory Providing an introduction to mathematical population genetics Human Population Genetics gives basic background on the mechanisms of human microevolution This text combines mathematics biology and anthropology and is best suited for advanced undergraduate and graduate study Thorough and accessible Human Population Genetics presents concepts and methods of

population genetics specific to human population study utilizing uncomplicated mathematics like high school algebra and basic concepts of probability to explain theories central to the field By describing changes in the frequency of genetic variants from one generation to the next this book hones in on the mathematical basis of evolutionary theory Human Population Genetics includes Helpful formulae for learning ease Graphs and analogies that make basic points and relate the evolutionary process to mathematical ideas Glossary terms marked in boldface within the book the first time they appear In text citations that act as reference points for further research Exemplary case studies Topics such as Hardy Weinberg equilibrium inbreeding mutation genetic drift natural selection and gene flow Human Population Genetics solidifies knowledge learned in introductory biological anthropology or biology courses and makes it applicable to genetic study NOTE errata for the first edition can be found at the author s website http://employees.oneonta.edu/relethjh/HPG_errata.pdf

Demographic and Socioeconomic Aspects of Aging in the United States Jacob S. Siegel, Maria Davidson, 1984 Brings together and analyzes data on selected topics related to the demographic and socioeconomic characteristics of the older population in the United States The report covers for older persons age sex and race geographic distribution and residential mobility

Wildlife Population Growth Rates R. M. Sibly, J. Hone, T. H. Clutton-Brock, 2003-08-07 What determines where a species lives And what determines its abundance This book takes a fresh approach to some of the classic questions in ecology Despite great progress in the twentieth century much more remains to be done before we can provide full answers to these questions The methods described and deployed in this book point the way forward The core message of the book is that the key insights come from understanding what determines population growth rate and that application of this approach will make ecology a more predictive science Topics covered include population regulation density dependence the ecological niche resource and interference competition habitat fragmentation and the ecological effects of environmental stress together with applications to conservation biology wildlife management human demography and ecotoxicology After a substantial introduction by the editors the book brings together contributions from leading scientists from Australia New Zealand North America Europe and the U K

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