

MYP Lab Activities

Grade 6 Ecology

Measuring Populations



Background (continued):

For small, slow, or sessile (nonmoving) organisms, you can use what are known as quadrats to estimate population size. A quadrat is simply a square (usually less a long) that you place on the ground. You count all the organisms you find within it and then multiply by the total area of the habitat you are investigating, much like we did in the previous example. Accurate land areas can be determined using maps or satellite data. As before, the more quadrats you sample, the more accurate your estimates will be. It is also important to note that the quadrat placements should be random so that the data isn't biased.

Example 2: Using quadrats to find the number of snails in a garden



1m² Quadrat



$$\text{Total Area} = 900\text{m}^2$$

$$\text{Average population per quadrat} = 3.2$$

$$\text{Total Population} = \text{Total Area} \times \text{Average Population Per Quadrat}$$

$$\text{Total Population} = 900 \times 3.2$$

$$\text{Total Population} = 2880$$

If your target species is too large or too fast to be easily contained within a quadrat or counted, you can use a method called mark-recapture. In this technique, ecologists catch a number of animals and mark them in some way. They may use ear tags, coloured dyes, or even microchips to identify each animal. Then, they are released back into the wild. After some time has passed, researchers catch another group of animals and see how many of them are marked (these are the recaptures) and how many are not. A simple equation is then used to calculate the total population size. One benefit of mark-recapture sampling is that a lot of secondary information can be collected while the animal is captured, including its sex, weight, length, and notes about its general health. The downside of this is that it is stressful and sometimes dangerous for the humans and animals involved.

Example 3: Using mark-recapture to estimate the number of fish in a lake

Step 1 = Capture



Step 2 = Mark



Step 3 = Release



Step 4 = Recapture



$$\text{Estimated population} = \frac{\text{Number marked} \times \text{Sample size}}{\text{Number of recaptures}}$$

$$\text{Estimated population} = \frac{6 \times 6}{2} = 18$$

Populations Experiments In Ecology

Alan A. Berryman



Populations Experiments In Ecology:

Populations: Experiments in Ecology A. Harris Stone, Stephen Collins, 1973-01-01 Simple problems and experiments demonstrate the causes of population growth and decline among plants animals and humans means of predicting population trends and effects of overpopulation on the environment *Applied Population Biology* S.K. Jain, L.W. Botsford, 2007-07-23 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 *Wildlife 2001: Populations* D.R. McCullough, R.H. Barrett, 2012-12-06 In 1984 a conference called Wildlife 2000 Modeling habitat relationships of terrestrial vertebrates was held at Stanford Sierra Camp at Fallen Leaf Lake in the Sierra Nevada Mountains of California The conference was well received and the published volume Verner J M L Morrison and C J Ralph editors 1986 Wildlife 2000 modeling habitat relationships of terrestrial vertebrates University of Wisconsin Press Madison Wisconsin USA proved to be a landmark publication that received a book award by The Wildlife Society Wildlife 2001 populations was a followup conference with emphasis on the other major biological field of wildlife conservation and management populations It was held on July 29 31 1991 at the Oakland Airport Hilton Hotel in Oakland California in accordance with our intent that this conference have a much stronger international representation than did Wildlife 2000 The goal of the conference was to bring together an international group of specialists to address the state of the art in wildlife population dynamics and set the agenda for future research and management on the threshold of the 21st century The mix of specialists included workers in theoretical as well as practical aspects of wildlife conservation and management Three general sessions covered methods modelling and conservation of threatened species *Population Dynamics* Naomi Cappuccino, Peter W. Price, 1995-09-01 An understanding of the dynamics of populations is critically important to ecologists evolutionary biologists wildlife managers foresters and many other biologists This edited treatise brings together the latest research on how populations fluctuate in size the factors that drive these changes and the theories explaining how populations are regulated The book also includes specific chapters dealing with insects of economic importance *Population Dynamics in Ecological Space and Time* Olin E. Rhodes, Ronald K.

Chesser, Michael H. Smith, 1996-08 As profound threats to ecosystems increase worldwide ecologists must move beyond studying single communities at a single point in time All of the dynamic interconnected spatial and temporal processes that determine the distribution and abundance of species must be understood in order to develop new conservation and management strategies This volume is the first to integrate mathematical and biological approaches to these crucial topics The editors include not only a wide variety of theoretical approaches but also a broad range of experimental and field studies with chapters written by renowned experts in community ecology ecological modeling population genetics and conservation biology In addition to providing new insights into well known topics such as migration the authors also introduce some less familiar subjects including bacterial population genetics and ecotoxicology For anyone interested in the study management and conservation of populations this book will prove to be a valuable resource

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

Principles of Population Dynamics and Their Application Alan A. Berryman, 2020-11-26 This book provides an introduction to population dynamics exploring rules that govern change in any dynamic system and applying these general principles to populations of living organisms Principles of Population Dynamics and their Application is aimed at applied ecologists resource managers and pest managers It is also aimed at undergraduate students taking courses in forestry fisheries wildlife and pest management

Design and Analysis of Ecological Experiments Sam Scheiner, 2020-07-24 The goal of this book is to make some underutilized but potentially very useful methods in experimental design and analysis available to ecologists and to encourage better use of standard statistical techniques Ecology has become more and more an experimental science in both basic and applied work but experiments in the field and in the laboratory often present formidable statistical difficulties Organized around providing solutions to ecological problems this book offers ways to improve the statistical aspects of conducting manipulative ecological experiments from setting them up to interpreting and reporting the results An abundance of tools including advanced approaches are made available to ecologists in step by step examples with computer code provided for common statistical packages This is an essential how to guide for the working

ecologist and for graduate students preparing for research and teaching careers in the field of ecology **The Handbook of Natural Resources, Second Edition, Six Volume Set** Yeqiao Wang, 2022-05-29 Authored by world class scientists and scholars the Handbook of Natural Resources Second Edition is an excellent reference for understanding the consequences of changing natural resources to the degradation of ecological integrity and the sustainability of life Based on the content of the bestselling and CHOICE awarded Encyclopedia of Natural Resources this new edition demonstrates the major challenges that the society is facing for the sustainability of all wellbeing on planet Earth The experience evidence methods and models used in studying natural resources are presented in six stand alone volumes arranged along the main systems land water and air It reviews state of the art knowledge highlights advances made in different areas and provides guidance for the appropriate use of remote sensing data in the study of natural resources on a global scale The six volumes in this set cover Terrestrial Ecosystems and Biodiversity Landscape and Land Capacity Wetlands and Habitats Fresh Water and Watersheds Coastal and Marine Environments and finally Atmosphere and Climate Written in an easy to reference manner the Handbook of Natural Resources Second Edition as a complete set is essential for anyone looking for a deeper understanding of the science and management of natural resources Public and private libraries educational and research institutions scientists scholars and resource managers will benefit enormously from this set Individual volumes and chapters can also be used in a wide variety of both graduate and undergraduate courses in environmental science and natural science courses at different levels and disciplines such as biology geography Earth system science ecology etc *Index-catalogue of Medical and Veterinary Zoology*, 1982 Supplements 1 14 have Authors sections only supplements 15 24 include an additional section Parasite subject catalogue **Parasitoid Population Biology** Michael E. Hochberg, Anthony R. Ives, 2021-05-11 Extraordinary in the diversity of their lifestyles insect parasitoids have become extremely important study organisms in the field of population biology and they are the most frequently used agents in the biological control of insect pests This book presents the ideas of seventeen international specialists providing the reader not only with an overview but also with lively discussions of the most salient questions pertaining to the field today and prescriptions for avenues of future research After a general introduction the book divides into three main sections population dynamics population diversity and population applications The first section covers gaps in our knowledge in parasitoid behavior parasitoid persistence and how space and landscape affect dynamics The contributions on population diversity consider how evolution has molded parasitoid populations and communities The final section calls for novel approaches toward resolving the enigma of success in biological control and questions why parasitoids have been largely neglected in conservation biology Parasitoid Population Biology will likely be an important influence on research well into the twenty first century and will provoke discussion amongst parasitoid biologists and population biologists In addition to the editors the contributors are Carlos Bernstein Jacques Brodeur Jerome Casas H C J Godfray Susan Harrison Alan Hastings Bradford A Hawkins George E Heimpel Marcel

Holyoak Nick Mills Bernard D Roitberg Jens Roland Michael R Strand Teja Tscharntke and Minus van Baalen *Ecology*, 1928 Publishes essays and articles that report and interpret the results of original scientific research in basic and applied ecology Design and Analysis of Ecological Experiments Samuel M. Scheiner, Jessica Gurevitch, 2001-04-26 Ecological research and the way that ecologists use statistics continues to change rapidly This second edition of the best selling Design and Analysis of Ecological Experiments leads these trends with an update of this now standard reference book with a discussion of the latest developments in experimental ecology and statistical practice The goal of this volume is to encourage the correct use of some of the more well known statistical techniques and to make some of the less well known but potentially very useful techniques available Chapters from the first edition have been substantially revised and new chapters have been added Readers are introduced to statistical techniques that may be unfamiliar to many ecologists including power analysis logistic regression randomization tests and empirical Bayesian analysis In addition a strong foundation is laid in more established statistical techniques in ecology including exploratory data analysis spatial statistics path analysis and meta analysis Each technique is presented in the context of resolving an ecological issue Anyone from graduate students to established research ecologists will find a great deal of new practical and useful information in this current edition

Advances in Ecological Research, 1999-12-10 The six reviews in this latest issue of Advances in Ecological Research cover a broad spectrum of ecology from micro patterns and processes to the ecophysiology of the individual organism to forest scale processes Topics covered include the possible evolutionary forces that have shaped particular strategies and the potential and limitations for techniques in ecology such as fractal geometry field experiments and eddy co variance measures Despite this diversity of topics there are plenty of points of contact and cross reference *Analysis and Management of Animal Populations* Byron K. Williams, James D. Nichols, Michael J. Conroy, 2002-05-16 Analysis and Management of Animal Populations deals with the processes involved in making informed decisions about the management of animal populations It covers the modeling of population responses to management actions the estimation of quantities needed in the modeling effort and the application of these estimates and models to the development of sound management decisions The book synthesizes and integrates in a single volume the methods associated with these themes as they apply to ecological assessment and conservation of animal populations Integrates population modeling parameter estimation and decision theoretic approaches to management in a single cohesive framework Provides authoritative state of the art descriptions of quantitative approaches to modeling estimation and decision making Emphasizes the role of mathematical modeling in the conduct of science and management Utilizes a unifying biological context consistent mathematical notation and numerous biological examples *Scaling Relations in Experimental Ecology* Robert H. Gardner, W. Michael Kemp, Victor S. Kennedy, John E. Petersen, 2012-08-14 Ecology **Quantitative Genetics in the Wild** Anne Charmantier, Dany Garant, Loeske E. B. Kruuk, 2014-04-03 Although the field of quantitative genetics the study of the genetic basis of variation in

quantitative characteristics such as body size or reproductive success is almost 100 years old its application to the study of evolutionary processes in wild populations has expanded greatly over the last few decades During this time the use of wild quantitative genetics has provided insights into a range of important questions in evolutionary ecology ranging from studies conducting research in well established fields such as life history theory behavioural ecology and sexual selection to others addressing relatively new issues such as populations responses to climate change or the process of senescence in natural environments Across these fields there is increasing appreciation of the need to quantify the genetic rather than just the phenotypic basis and diversity of key traits the genetic basis of the associations between traits and the interaction between these genetic effects and the environment This research activity has been fuelled by methodological advances in both molecular genetics and statistics as well as by exciting results emerging from laboratory studies of evolutionary quantitative genetics and the increasing availability of suitable long term datasets collected in natural populations especially in animals

Quantitative Genetics in the Wild is the first book to synthesize the current level of knowledge in this exciting and rapidly expanding area This comprehensive volume also offers exciting perspectives for future studies in emerging areas including the application of quantitative genetics to plants or arthropods unraveling the molecular basis of variation in quantitative traits or estimating non additive genetic variance Since this book deals with many fundamental questions in evolutionary ecology it should be of interest to graduate post graduate students and academics from a wide array of fields such as animal behaviour ecology evolution and genetics

Water Resources Research Catalog, 1966

Invasion Genetics Spencer C. H. Barrett, Robert I. Colautti, Katrina M. Dlugosch, Loren H. Rieseberg, 2016-07-15

Invasion Genetics the Baker demographic genetics the role of stochastic forces in the invasion process the contemporary evolution of local adaptation the significance of epigenetics and transgenerational plasticity for invasive species the genomic consequences of colonization the search for invasion genes and the comparative biology of invasive species A wide diversity of invasive organisms are discussed including plants animals fungi and microbes

Field Methods in Marine Science Scott Milroy, 2022-09-10

Field Methods in Marine Science From Measurements to Models is an authoritative guide of the methods most appropriate for field research within the marine sciences from experimental design to data analysis Written for upper level undergraduate and graduate students as well as early career researchers this textbook also serves as an accessible introduction to the concepts and practice of modeling marine system dynamics This textbook trains the next generation of field scientists to move beyond the classic methods of data collection and statistical analysis to contemporary methods of numerical modeling to pursue the assimilation and synthesis of information not the mere recording of data Boxes and side bars highlight important questions interesting facts relevant examples and research techniques that supplement the text Students and researchers alike will find the thorough appendices useful as a way of expanding comprehension of fundamental concepts

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