

Population Ecology Lab Exercise Using Mice and Fox in a Meadow Ecosystem

Materials:

- One habitat container
- 100 red beads - these are 'control' and represent times that the mice will escape/gets away; "strikes".
- 100 yellow beads - these represent the prey species; mice
- Data sheet
- Graph paper
- Colored pencils
- Fox - students will be the predators in this lab exercise

Procedure:

1. Place 100 control (red beads) in the habitat
 2. Add 10 mice (yellow or white beads) to the habitat
- Generation 1 - Your designated 'fox' will draw 15 beads from the habitat, without looking.

If the fox gets 5 yellow/white/mouse beads, it survives and reproduces. You would start generation 2 with 2 fox- the survivor and its offspring.

If a fox gets 10 mice it survives and has 2 babies (fox total is now 3).

If the fox captures less than 5 mice it dies (and doesn't reproduce either).

Count the number of mice left in the habitat container - each of these survivors *reproduces*. For example, if your fox captures 3 of the ten mice (this fox starves) but the 7 mice left in the container reproduce. You would then start generation 2 with 14 mice.

Always start each generation with a minimum of 10 mice and 1 fox; even if all of your organisms die, assume that new ones will discover your meadow and immigrate.

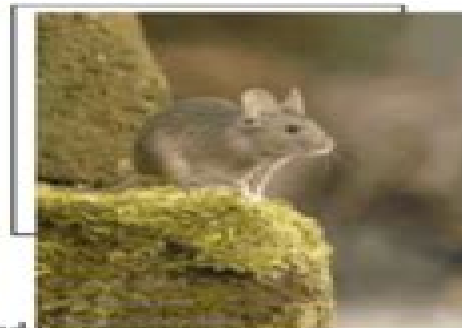
Never have more than 200 mice or 20 fox. (We have set an arbitrary carrying capacity for this meadow.)

Generation 2 - Place beads in your habitat that represent the next generation of mice and fox; consider that some have reproduced and some have starved.

If you have more than one fox, then each fox captures its 15 beads individually. The first fox takes 15 beads, counts the mice and PUTS THE RED BACK. Then the 2nd fox takes 15 beads, counts the mice and RETURNS THE RED. Eventually the more fox you have the more that will start starving, and the "early fox gets the mouse".

Total the mice caught by all your fox, subtract from 100 and double the survivors. This is your prey number for the next generation.

Continue for 20 generations.



"its getting harder and harder to find food with all this competition!"

Population Ecology Lab Exercises

Chris Voigt



Population Ecology Lab Exercises:

40 Inquiry Exercises for the College Biology Lab A. Daniel Johnson, 2009 Drawing from the author's own work as a lab developer coordinator and instructor this one of a kind text for college biology teachers uses the inquiry method in presenting 40 different lab exercises that make complicated biology subjects accessible to major and nonmajors alike The volume offers a review of various aspects of inquiry including teaching techniques and covers 16 biology topics including DNA isolation and analysis properties of enzymes and metabolism and oxygen consumption Student and teacher pages are provided for each of the 16 topics A Biologist's Guide to Mathematical Modeling in Ecology and Evolution Sarah P. Otto, Troy Day, 2011-09-19 Thirty years ago biologists could get by with a rudimentary grasp of mathematics and modeling Not so today In seeking to answer fundamental questions about how biological systems function and change over time the modern biologist is as likely to rely on sophisticated mathematical and computer based models as traditional fieldwork In this book Sarah Otto and Troy Day provide biology students with the tools necessary to both interpret models and to build their own The book starts at an elementary level of mathematical modeling assuming that the reader has had high school mathematics and first year calculus Otto and Day then gradually build in depth and complexity from classic models in ecology and evolution to more intricate class structured and probabilistic models The authors provide primers with instructive exercises to introduce readers to the more advanced subjects of linear algebra and probability theory Through examples they describe how models have been used to understand such topics as the spread of HIV chaos the age structure of a country speciation and extinction Ecologists and evolutionary biologists today need enough mathematical training to be able to assess the power and limits of biological models and to develop theories and models themselves This innovative book will be an indispensable guide to the world of mathematical models for the next generation of biologists A how to guide for developing new mathematical models in biology Provides step by step recipes for constructing and analyzing models Interesting biological applications Explores classical models in ecology and evolution Questions at the end of every chapter Primers cover important mathematical topics Exercises with answers Appendixes summarize useful rules Labs and advanced material available *Field and Laboratory Exercises in Ecology* Stephen D. Wratten, Gary L. A. Fry, 1980 *Laboratory Exercises for Freshwater Ecology* John E. Havel, 2016-03-17 Limnology stream ecology and wetland ecology all share an interdisciplinary perspective of inland aquatic habitats Scientists working in these fields explore the roles of geographic position physical and chemical properties and the other biota on the different kinds of plants and animals living in freshwaters How do these creatures interact with each other and with their physical environment In what ways have humans impacted aquatic habitats By what methods do freshwater ecologists study these environments With this new laboratory manual Havel provides a variety of accessible hands on exercises to illuminate key concepts in freshwater ecology These exercises include a mixture of field trips indoor laboratory exercises and experiments with some portions involving qualitative observations and others more

quantitative With the help of this manual students will develop an appreciation for careful techniques used in the laboratory and in the field as well as an understanding of how to collect accurate field notes keep a well organized lab notebook and write clear scientific reports

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

Laboratory Exercises in Microbiology Robert A. Pollack, Lorraine Findlay, Walter Mondschein, R. Ronald Modesto, 2018-07-11 *The Laboratory Exercises in Microbiology 5e* by Pollack et al presents exercises and experiments covered in a 1 or 2 semester undergraduate microbiology laboratory course for allied health students The labs are introduced in a clear and concise manner while maintaining a student friendly tone The manual contains a variety of interactive activities and experiments that teach students the basic concepts of microbiology The 5th edition contains new and updated labs that cover a wide array of topics including identification of microbes microbial biochemistry medical microbiology food microbiology and environmental microbiology

Laboratory Manual of Biomathematics Raina S. Robeva, Raina Robeva, James R. Kirkwood, 2007-08-28 *Laboratory Manual of Biomathematics* is a companion to the textbook *An Invitation to Biomathematics* This laboratory manual expertly aids students who wish to gain a deeper understanding of solving biological issues with computer programs It provides hands on exploration of model development model validation and model refinement enabling students to truly experience advancements made in biology by mathematical models Each of the projects offered can be used as individual module in traditional biology or mathematics courses such as calculus ordinary differential equations elementary probability statistics and genetics Biological topics include Ecology Toxicology Microbiology Epidemiology Genetics Biostatistics Physiology Cell Biology and Molecular Biology Mathematical topics include Discrete and continuous dynamical systems difference equations differential equations probability distributions statistics data transformation risk function statistics approximate entropy periodic components and pulse detection algorithms It includes more than 120 exercises derived from ongoing research studies This text is designed for courses in mathematical biology undergraduate biology majors as well as general

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