

Population Dynamics Exam 2

Lecture 8-12, Study Guide

Interspecific Interactions

Lotka-Volterra Predator-Prey Model

= predator and prey limit each other's growth potential

Model for prey

$$N_{t+1}^{prey} = N_t^{prey} + N_t^{prey}(r^{prey} - k^{pred} N_t^{pred})$$

Model for predator

$$N_{t+1}^{pred} = N_t^{pred} + N_t^{pred}(b^{pred} N_t^{prey} - d^{pred})$$

→ the model is based on geometric growth!!!

- r^{prey} = growth rate of prey (in the absence of predators)
- k^{pred} = kill rate
- b^{pred} = effect of prey on predator birth rate
- d^{pred} = predator mortality rate

Equilibrium

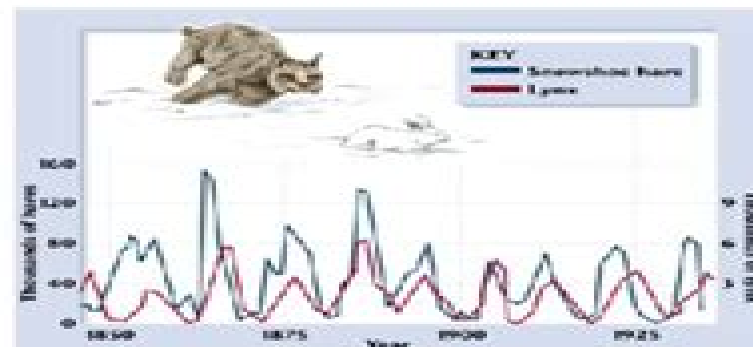
Equilibrium for prey occurs when:

$$N^{pred} = \frac{r^{prey}}{k^{pred}}$$

Equilibrium for predators occurs when:

$$N^{prey} = \frac{d^{pred}}{b^{pred}}$$

*** It is rare the both equilibrium conditions will be met at the same time
— populations will cycle!!!



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IM Harris



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Linking Habitat Quality to Population Dynamics for Conservation Decision Making David R. Breininger,Doug P. Armstrong,Robert C. Lacy,James Nichols,2025-04-09 Endangered Species Recovery planning is often based on predictions from population models Species recovery is contingent on habitat restoration including reduction of threats such as predators and parasites However population predictions are rarely linked to habitat management meaning that management cannot be easily guided by most formal decision making frameworks Predicted recovery trajectories may depend not only on the type and extent of restoration but also the timing For example populations may initially continue to decline as habitat restoration takes place and their genetic diversity might need to be maintained during that process There is also often considerable uncertainty about the effectiveness of proposed management in improving habitat quality and the effects of those improvements on population growth rates of the species targeted for recovery We seek examples of approaches integrating habitat restoration and population dynamics to guide decision making One example is where population data e g occupancy and habitat dynamics e g transition probabilities between states are directly integrated into a statistical likelihood Another uses a metamodel to combine different interdisciplinary models e g population habitat disease predator prey to represent a more complex system integrating the flow of information and sequences of events among models Decision frameworks to enhance species recovery could include management of relatively natural areas but also more intensively managed areas such as zoos or fragmented landscape with minimal long term conservation potential for some species Decision frameworks will ideally include adaptive management i e re current decisions recognizing that conservation decisions often need to begin imminently and that delaying action is a decision We invite articles that include several of the

following elements in the context of conservation decision making Explaining why it is important to consider animal or plant population and habitat dynamics together Case studies models or other demonstrations of how habitat and population dynamics should or can be linked Examples may include remnant populations but also recent or prospective translocations Explicit or decision making approaches including adaptive management for linking habitat and populations for conservation to guide conservation Showing how loss of genetic variation in small populations can affect decisions given the time needed to restore habitat reduced toxins introduced predators disease Showing how variation in population and habitats over time and or space are important for decisions about species recovery

Environmental Science Michael L. McKinney, Robert M. Schoch, Logan Yonavjak, 2012 Updated with the latest data from the field Environmental Science Systems and Solutions Fifth Edition explains the concepts and teaches the skills needed to understand multi faceted and often very complex environmental issues The authors present the arguments rebuttals evidence and counterevidence from many sides of the debate The Fifth Edition includes new Science in Action boxes which feature cutting edge case studies and essays contributed by subject matter experts that highlight recent and ongoing research within environmental science With an Earth as a system approach the text continues to emphasize Earth s intricate web of interactions among the biosphere atmosphere hydrosphere and lithosphere and how we are central components in these four spheres This flexible unbiased approach highlights 1 how matter cycles over time through Earth s systems 2 the importance of the input throughput output processes that describe the global environment 3 how human activities and consumption modify Earth s systems 4 and the scientific economic and policy solutions to environmental problems Revised and updated to reflect current trends and statistics within Environmental Science New content on renewable energy solar panels and compact fluorescent light bulbs The latest information on Hydropower and the advantages and disadvantages of hydroelectric energy The companion website includes robust learning tools that enable students to make full use of today s learning technology Students will find practice quizzes virtual flashcards answers to in text questions and links to additional coverage regarding material discussed in the text Instructor Resources include an instructor s manual Test Bank PowerPoint Lecture Outline Slides and a PowerPoint Image Bank

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