

Bio: Ecology Study Guide

Topic 32: Ecology

Exponential Growth

- Not sustainable
- Describes population growth in an **idealized, unlimited** environment → not sustainable in the long term

Carrying Capacity (K)

- The maximum population size that a particular environment can sustain
- Varies over time and space as limiting factors vary
 - Energy, shelter, predation, nutrient availability, water, suitable nesting sites

Logistic Growth Model

- Starts with the exponential model and adds an expression that reduces per capita rate of increase as N approaches K

$$\frac{dN}{dt} = r_{max}N \frac{(K - N)}{K}$$

- → the closer K gets to N the more the rate of increase slows
- Example:
 - K= 100 individuals, N=15 individual (K-N)/K=0.85
 - The population is growing at 85% of the growth rate of an exponentially increasing population
- Per capita rate of increase declines as carrying capacity is reached, **so growth rate declines when the population size gets large**
- Model assumptions
 - **Density dependent** factors affect that population
 - Populations **adjust growth instantaneously** and smoothly approach K
 - Each individual added to the population has the **same negative effect** on its growth rate
- Rather than a J curve, we get a symmetrical S-shaped curve with an upper asymptote

Example: Logistic Growth

- The growth of a microbe closely approximates logistic growth if the researcher maintains a constant environment
- The growth of the microbe does not actually correspond well to the logistic mother since the population overshoots the K of the its environment before it settles down to a stable population size
- **In nature, it can take some time for the negative effects occurring in an environment to become realized**

Allee Effect: Positive Effect of Adding Individuals at Low Densities

- **At small population sizes, growth rate increases with increasing density**
- Potential mechanisms
 - Problem finding mates at low densities
 - Species that form groups
 - **Foraging success** → finding and defining food
 - **Predation avoidance**
- In African Wild Dogs
 - Lower instance of antagonistic behavior toward pups from relatives when population is lower
 - Having other individuals in the pack to help raise pups makes their own success greater
 - Minimum threshold in which the wild dogs need to be healthy and viable
 - Minimum pack size increase the rate of extinction

Life History

Bio 42 Study Guide Answers

Richard O. Straub



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