

Population Dynamics

Topic: Population Dynamics

Week 10: Lecture

Population and Ecology

What are the factors that influence the growth of a population? How do these factors interact to determine the population's growth rate? (10 marks)

1. The Growth Rate

a) The **population growth rate** is the rate at which a population increases or decreases in size. It is determined by the balance of birth rate (the number of new individuals added to the population) and death rate (the number of individuals removed from the population). The growth rate is the difference between these two rates.

2. The Growth Rate Equation

Write the **growth rate equation** and explain the meaning of each term.

a) The growth rate equation is: $\text{Growth Rate} = \text{Birth Rate} - \text{Death Rate}$

Birth Rate: The number of new individuals added to the population per unit time.

b) The growth rate equation is: $\text{Growth Rate} = \text{Birth Rate} - \text{Death Rate}$

Birth Rate: The number of new individuals added to the population per unit time.

3. Exploring the Population Growth Rate

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Jin-Ying Zhang



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