

Biology Chapter 53.1

Species are divided into groups of individuals, or populations, that can vary spatially across their geographic range. All populations change in size and spatial extent due to the physical environment, biological interactions, and dispersal. Ecologists use a variety of approaches to estimate population sizes, including full censuses, surveys using quadrats or transects, mark-recapture methods, and DNA analyses.

Refer to Figure 53.4. Draw a diagram showing which populations of humpback whales interact on their summer feeding grounds. Do you think all five populations make up one metapopulation during the summer? Explain.

All five populations do not make up one metapopulation. A metapopulation is a group of populations linked via dispersal. The five populations shown are not an example of one metapopulation since they are not all linked to each other via dispersal.

Refer to Figure 53.2. What type of species interaction appears to have caused the aphid population to fluctuate in size? What type of species interaction keeps the population size from fluctuating?

The aphid population appears to have fluctuated in size since it reached the natural carrying capacity and intraspecific competition for resources is too high. Since there are not enough resources to support the population, it enters a bust which can be seen from the 30th of June to the 7th of July. Predation keeps the size of the population from fluctuating, as it adds a selective pressure to the aphid population.

A researcher wants to determine how many leopard frog tadpoles are present in a pond in the spring. Later, after the tadpoles have metamorphosed, she wants to compare this number with the size of the frog population. What method should the researcher use to determine the population sizes? Explain your answer.

To determine the number of frog tadpoles present in the pond, the researcher should undertake a full census, as the population being measured is suitable. When comparing the number with the rest of the frog population, the researcher should

Biology Chapter 53.2

Population growth is the change in population size over time, as reflected by the number of births, deaths, and migrants in and out of the population. Exponential (multiplicative) growth occurs when the per capita growth rate, r , is constant over time. Logistic growth occurs in an environment in which resources are limited and a population reaches its carrying capacity, K . Factors limiting population growth can be density-dependent (e.g., competition for food or space) or density-independent (e.g., environmental conditions). Life tables summarize how survival and fecundity vary with the age, size, or sex of the individuals in a population, and predict how these demographic events affect population growth.

Write an equation that describes how births, deaths, immigration, and emigration affect population size. Define each variable.

Suppose you are asked to predict what the population size of an endangered bird will be in 2040.W

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