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population biology is the study of population characteristics and the factors that affect their size and distribution the characteristics which are studied include the migratory patterns the population density the demographics the birth and death rates sex ratio and age distribution the population genetics the life history traits and key points populations and communities are groups of organisms a population is a group of the same species living in the same area a community is a group of different species living in the same area an ecosystem is all of the organisms in an area plus the nonliving parts of their environment image by benjamin p y h lee licensed under cc by 4 0 populations are interacting and interbreeding groups of individuals from the same species in a common area the study of population ecology focuses on population size and the factors that regulate population growth two important measures of a population are population size the number of individuals and population density the number of individuals per unit area or volume ecologists often estimate the size and density of populations using quadrats and the mark recapture method population biology refers to controlled drug delivery

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