

Ecology Unit 1

Chapter 1: The Nature of Ecology

- **Individual:** a single organism capable of independent existence
- **Population:** A population is a subset of individuals of one species that occupies a particular geographic area and, in sexually reproducing species, interbreeds.
- **Community:** a group or association of populations of two or more different species occupying the same geographical area at the same time
- **Ecosystem:** a geographic area where plants, animals, and other organisms, as well as weather and landscape, work together to form a bubble of life. Ecosystems contain biotic or living, as well as abiotic factors, or nonliving parts.
- **Landscape:** the pattern and interaction between ecosystems within a region of interest, and the way the interactions affect ecological processes, especially the unique effects of spatial heterogeneity on these interactions.
- **Biome:** A biome is a specific environment that's home to living things suited for that place and climate. A desert biome is great for a lizard, but a koala needs the leafy greens of a forest biome.
- **Biosphere:** The biosphere, also known as the ecosphere, is the worldwide sum of all ecosystems. It can also be termed the zone of life on Earth. The biosphere is virtually a closed system with regard to matter, with minimal inputs and outputs.

Chapter 2: Properties of Populations

- **Distribution:** population's spatial location, the area over which it covers
- **Geographical range:** defined area encompassing all individuals of the species
- **Ubiquitous:** a species that is geographically widespread
- **Endemic:** a species with a distribution that is restricted to a particular locality or localized habitat
- **Metapopulation:** the collective of local subpopulations
- **Abundance vs density**
- **Spatial distribution patterns:** random, uniform, and clumped (most common)
- **Ecological density:** number of individuals per unit of available living space (as opposed to crude density)
- **Lincoln-Peterson index of relative population size:** the single mark-single recapture method
- **Dispersal:** movement of individuals in space away from one another
- **Migration:** a round trip

Ecology Final Study Guide

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