

20.2 Biodiversity

Biodiversity: The number and variety of organisms found within a specified ecosystem or biome.

Species: A group of living organisms consisting of similar individuals capable of exchanging genes or interbreeding. The principal natural taxonomic unit.

Habitat: The natural home or environment of an animal, plant, or other organism.

Levels of biodiversity

- **Habitat (ecosystem) diversity**
 - The variety of habitats/ecosystems present in a biogeome.
- **Species diversity**
 - The effective number of different species that are represented in a collection of individuals (a dataset). Species diversity consists of two components: species richness and species evenness.
- **Genetic diversity**
 - The total number of genetic characteristics in the genetic makeup of a species. It serves as a basis for populations to adapt to changing environments.

Sampling

- **Importance of sampling**
 - Human activities affect the environment, and we must study these effects to understand the impact we have. Data are important parts of planning processes and are used to estimate the environmental effects of a planned development.
- **Measuring Biodiversity**
 - To measure the biodiversity of a habitat, all the individuals of all of the species must be counted. This is impractical, so instead, the habitat is randomly sampled: random portions of the habitat are selected and studied in detail. An estimation of the numbers in the whole habitat is then calculated. These methods must be standardized.
 - **Sampling Plots**
 - Steps to randomly select areas:
 - (1) Taking readings at regular distances across the habitat
 - (2) Using random numbers for plot coordinates within the habitat
 - (3) Selecting coordinates from a map and then using a GPS to find the position inside the habitat
 - **Method 2: Random Quadrats**

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