

STAAR Science Tutorial 43

TEK 7.10B: Biodiversity

TEK 7.10B: Describe how biodiversity contributes to the sustainability of an ecosystem.

- **Biodiversity** is the number of different species living in a defined area. Scientists have identified almost 2 million different species on Earth, but believe that there may be as many as 10 to 12 million different species.
- The biodiversity of an area is dependent on its size, its climate and the diversity of niches.
 - The larger the continuous area of the ecosystem, the greater the biodiversity. Larger areas provide room for many different microhabitats, and the boundaries between those microhabitats, called **ecotones**, are often rich in biodiversity. Physical barriers around an ecosystem, such as an ocean surrounding a small island, will likely limit biodiversity, by preventing migration in and out of the ecosystem, and increasing the chance of a catastrophic event wiping out an entire species.
 - Climate is a major determinant of biodiversity. Warm and wet climates usually have higher biodiversity. Climates with a year-round growing season and constant water availability encourage large populations, which in turn create much competition between species. Rain forests are thought to have the highest biodiversity on Earth, while the polar biome has the lowest biodiversity. In the oceans, coral reefs have the highest biodiversity.
 - The number of niches in an ecosystem is determined by the amount of primary production (the mass of the producers), the number of different microhabitats, and the availability of resources on a year-round basis.
- The benefits of high biodiversity in an ecosystem include community sustainability, resistance to damage from climate change and catastrophic events, control of pest species, increased food and wood production, enrichment of soil nutrients and production, potential for medical discoveries, and a gene pool for future genetic engineering of food crops.
 - **Sustainability** in an ecosystem is a measure of its stability, its ability to survive over time, and how resistant it is to collapse due to outside influences, long term environmental change or catastrophic events. High biodiversity creates greater competition between species and the filling of all available niches. The large number of predator-prey and symbiotic relationships creates checks and balances that keep populations balanced.
 - The population of **pest species** is best controlled through high biodiversity. In areas where humans have removed natural communities to raise single species crops, the population of pest species, specialized consumers for that one crop rises in turn because of the increased food

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