

- 1. What are the three symbiotic relationships?
- 2. What is competitive exclusion?
- 3. Give an example of one ecosystem service that a stable environment can provide.



Biodiversity

Ecosystem services

Services Provided and Examples

Purifying water

Wetlands and intact forests along rivers and around reservoirs filter and clean groundwater. Preserving buffer zones that perform these natural processes is significantly cheaper than building water-purification plants.

Buffering effects of weather

Mangrove forests protect tropical shorelines from erosion by storm waves and runoff. Dune grasses and salt marsh grasses do the same in temperate regions.

Pollinating

Bees, flies, and butterflies pollinate crop plants, including fruit trees and vegetables. Beetles, bats, and hummingbirds pollinate many other important plants.



Regulating pests

Many species of birds and bats eat insects like mosquitoes that can spread disease. These and other predators also eat crop-damaging insects.

Food production

Highly productive ocean areas provide large fishes, such as tuna, with food and space to thrive. Many wild plants may also produce food for humans.

Nutrient cycling

Healthy, actively growing forests remove carbon dioxide from the atmosphere. Bacteria and fungi also take up nitrogen and fix it into organic compounds.

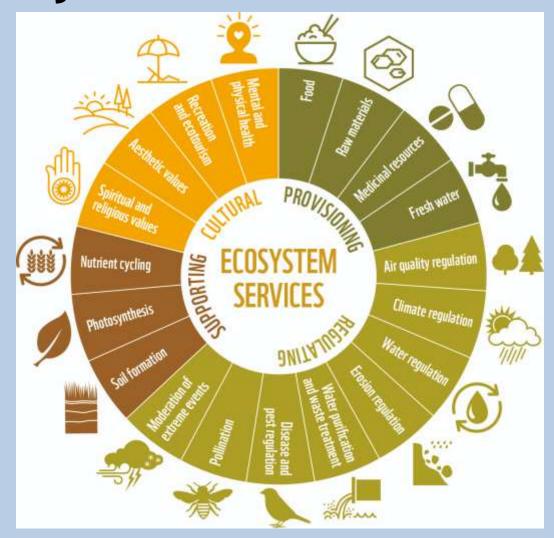
Maintaining soil structure

Detritivores and other soil organisms aerate soil and prevent it from becoming too compacted. Bacteria and fungi in soil as well as leaf litter microbiomes produce humus.



Biodiversity

• Ecosystem services



Logistics

- Unit 2 Ecology Assessment is this THURSDAY, Nov 7th
 - Cross out objectives 16,17
 - YOU MUST RETAKE UNIT 1 ASSESSMENT BY THURSDAY

Review

- STAY ENGAGED
- Use your worksheet as a review
- http://youtu.be/PagO3gmwmA0

