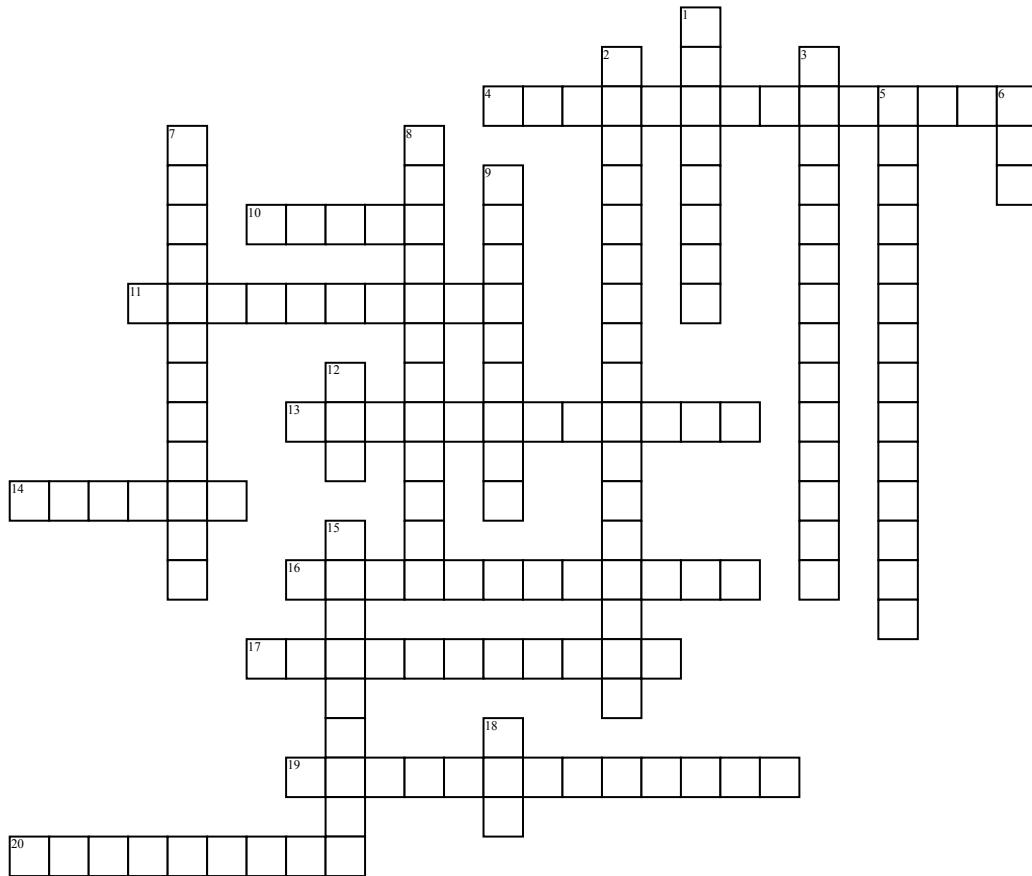


# Ecosystems and Restoration Ecology



## Across

4. The use of living organisms to detoxify ecosystems  
 10. Worldwide agriculture could feed many more people if humans ate only \_\_\_\_\_ material.  
 11. Primary consumers are also known as...  
 13. Consumers that derive their energy from detritus or nonliving organic matter  
 14. The primary physical phase in which water is used is  
 16. The law of \_\_\_\_\_ of mass states that matter cannot be created or destroyed  
 17. \_\_\_\_\_ ecology seeks to initiate or speed up the recovery of degraded ecosystems.  
 19. \_\_\_\_\_ connects all trophic levels

## Word Bank

bioremediation	augmentation	conservation	heterotrophs	GPP
limiting	Detritivores	consumers	herbivores	NEP
Decomposition	Ecosystem	Restoration	liquid	Primary production
plant	thermodynamics	producers	NPP	biogeochemical

20. Autotrophs are also considered to be primary \_\_\_\_\_

## Down

1. An element that must be added for production to increase in an area is called a \_\_\_\_\_ nutrient.  
 2. The amount of light energy converted to chemical energy by autotrophs during a given time period  
 3. Nutrient circuits in ecosystems involve biotic and abiotic components and are often called \_\_\_\_\_ cycles.  
 5. The first law of \_\_\_\_\_ states that energy cannot be created or destroyed, only transformed

6. \_\_\_\_\_ is GPP minus energy used by primary producers for respiration.  
 7. Biological \_\_\_\_\_ uses organisms to add essential materials to a degraded ecosystem.  
 8. Photosynthetic organisms convert CO<sub>2</sub> to organic molecules that are used by \_\_\_\_\_  
 9. All the organisms living in a community, as well as the abiotic factors with which they interact  
 12. A measure of total biomass accumulation during a given period  
 15. Carnivores are also considered to be secondary \_\_\_\_\_  
 18. Total primary production is known as the ecosystem's \_\_\_\_\_