Ecosystem Services

Guiding Questions

DIrections: Answer each of the following three questions. Each answer should be 4-6 sentences long for EACH question, with details from the textbook to back up your response.

Why is it important to maintain healthy ecosystems? Healthy ecosystems can clean our water. They purify our air so we can breath better. Maintain our soil for our backyard and other kinds of soil. They regulate the climate for us. Recycle nutrients and they provide us with food.

Which supporting services are necessary to all other ecosystem services? Biomass production is one of the supporting services that are necessary to all other ecosystem services. The second production of supporting services necessary to all other ecosystem services is atmospheric oxygen. Soil formation and retention are the third supporting services necessary to all other ecosystem services. Nutrient cycling is the fourth supporting services necessary to all other ecosystem services. Water cycling is the fifth supporting services necessary to all other ecosystem services. Provisioning of habitat is the final supporting services necessary to all other ecosystem services.

How does biodiversity impact ecosystem services? Biodiversity impacts ecosystem services because biodiversity is the basis for many ecosystem services that people depend upon such as food and fiber. Soil species loss will affect the provision of ecosystem services that have been increasing interest and research. However some evidence suggests that species richness is important in certain soils. That is how biodiversity impacts ecosystem services.