Ecosystem services

Ecosystem services are defined as the benefits that people derive from nature. Robert Constanza et al (1927) stated "Ecosystem services are the benefits provided to human, through the transformation of resources (or Environmental assets including land, water, vegetation and atmosphere) into a flow of essential goods and services". Study on ecosystem services acts as an effective tool for gaining knowledge on ecosystem benefits and their sustained use. Without such knowledge gain, the fate of any ecosystem will be at stake and the benefits they provide to us in future will become bleak.

The varieties of benefits obtained from the ecosystem are generally categorized into the following four types

Ecosystem services

Provisoning services

- Food, fiber and fuel
- Genetic resources
- Bio-chemicals
- Fresh water
- Medicines

Cultural services

- Spiritual and religious values
- Knowledge system
- Education and inspiration
- Recreation and aesthetic values
- Ecotourism

Supporting services

- Primary production
- Provision of habitat
- Nutrient cycling
- Soil formation and retention
- Production of atmospherc oxygen
- Water cycling

Regulating services

- Invasion resistance
- Herbivory pollination
- Seed dispersal
- Climate regulation
- Pest regulation
- Disease regulation
- Erosion regulation
- Water purification
- Natural hazard protection