

Soils and Land Use Curriculum Guidelines

Canon Envirothon 2011

Soils/Land Use Key Points

- 1S. Recognize soil as an important and dynamic resource.
- 2S. Recognize and understand the features of a soil profile.
- 3S. Describe basic soil properties and soil formation factors.
- 4S. Understand the origin of soil parent materials.
- 5S. Identify soil constituents (clay, organic matter, sand and silt).
- 6S. Identify and list soil characteristics (e.g., texture, structure, etc.) and their relation properties.
- 7S. Determine basic soil properties and limitations (e.g., mottling and permeability) by observing a soil pit or a soil profile.
- 8S. Understand the nature of plant nutrients, and how they are held by soil.
- 9S. Recognize the characteristics of wetland (hydric) soils.
- 10S. Understand soil drainage classes and know how wetlands are defined.
- 11S. Understand soil water, its movement, storage, and uptake by plants.
- 12S. Understand the effects of land use on soils.
- 13S. In land use planning discussions, discuss how soil is a factor in or is impacted by non-point source pollution.
- 14S. Identify types of soil erosion and discuss methods for reducing erosion.
- 15S. Utilize soil information, including a soil survey.