



2014 SOIL RESOURCES

2014 Regional Stewardship Challenge

Key Point 1

Understand what soil is and its functionality

1. Envirothon Soils Guide: What are Soils?
2. Envirothon Soils Guide: Soils Function As...?

Key Point 2

Understand concepts of soil development and soil landscape relationships

1. Envirothon Soils Guide: Soil Horizons and Layers
2. Envirothon Soils Guide: Soil Color
3. Envirothon Soils Guide: Soil Structure
4. Envirothon Soils Guide: Factors of Soil Formation
5. Envirothon Soils Guide: Parent Materials
6. Envirothon Soils Guide: Soil Formation Processes
7. Envirothon Soils Guide: Glaciation & Illinois
8. Envirothon Soils Guide: Soil Taxonomy and Classification Schemes

Key Point 3

Use and interpret all aspects of a County Soil Survey

1. Envirothon Soils Guide: Soil Surveys & Maps
2. McHenry County Soil Survey (Mainly learn how to use the tables within file: man.pdf)

Key Point 4

Define and understand types of soil erosion and methods used for reducing erosion

1. Raindrops and Bombs the Erosion Process
2. Soil Erosion by Wind (Pages 1-3, 6)
3. Conservation Tillage and Crop Residue Management

Key Point 5

Understand soil quality/health and ways they are evaluated

1. Envirothon Soils Guide: Soil Health Management
2. Soil Quality-Introduction
3. Soil Quality Indicators: Organic Matter

Key Point 6

Understand soil texture and drainage

1. Envirothon Soils Guide: Natural Soil Drainage Class
2. Envirothon Soils Guide: Soil Texture
3. Soil Texture by Feel Flow Chart
4. Envirothon Soils Guide: Hydric Soils

Key Point 7

Understand soil organism interactions

1. Envirothon Soils Guide: Soil Food Web

Key Point 8

Understand urban soils

1. Urban Soils Primer (Chapter 2)