

Presentation Notes

Presentation _____ Lesson 4.1

Notes from Presentation:

Soil Development

- The following factors contribute to soil formation:
- **Climate**- Includes several forces that act upon soils, which breakdown rock into smaller fragments and eventually down to small particles (Rain & Temperature)
- **Organisms**- Organic Matter: Add nutrients to the soil. Plants- decaying roots and leaves. Soil Organisms- Break down organic material
- **Parent material**- Soil comes from parent material, soil forms from a rock broken down by weathering or chemical processes
- **Time**- Soils develop at varying rates depending upon the climate and other formation factors, the forces that form a given soil indicate how long it took the soil to be formed
- **Topography**- What would soil be like on top of a hill compared to the bottom of the hill? Top- larger particles and less organized, Bottom- smaller particles and deep

Soil Development Classifications- There are four main ways that the process of soil formation occurs:

- Addition- accumulation or deposition
- Reduction- leaching and erosion
- Translocation- movement within soil profile
- Transformation- soil changes in place by weathering or microorganism conversion

Erosion- The opposite of soil formation is erosion which has a detrimental effect on soil, two forms of erosion is water & wind

Erosion Happens

- In what circumstances is soil erosion more likely to happen?
 - Steep ground, too much irrigation, working soil in a rainy season, not protecting soil with ground cover, allowing wind to blow across worked soil

AFNR Reflection Page

List five key points that are important to remember from this presentation.

1. Addition is deposition
2. Reduction is erosion
3. Plants add nutrients to the soil
4. Erosion happens to steep ground
5. Soil forms from a rock broken down by weathering or chemical processes

List three ideas or concepts that this new information has in common with previous things learned.

1. Erosion effects the ground and soil
2. Rain and wind can cause erosion
3. Temperature also holds an impact on the ground

List questions or ideas that remain unclear about the information presented that should be asked for clarity at the appropriate time.

None