

## Presentation Notes

Presentation How soils are formed

Lesson 4.1

Notes from Presentation:

Soil development

Factors that contribute to soil formation:

Climate- Climate includes several forces that act upon soils, which breakdown rock into smaller fragments and eventually down to small particles.

Organisms- Add nutrients to the soil. Plants decay and soil organisms break down organic material

Parent Material- Soil come 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- Soil on top of a hill would be larger particles and less organized and on the bottom it would be smaller particles and deep.

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

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: Water and wind

Erosion happens mostly on steep ground, too much irrigation, working soil in rainy season, Not protecting soil with ground cover, allowing wind to blow across worked soil.

When soil is gone there is poor crop production, need for more water and fertilizer, and soil could be useable in some cases.

# AFNR Reflection Page

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

1. There are 4 classifications for soil formation
2. There are 5 key factors to soil development
3. Erosion is the opposite of soil formation
4. Erosion is from water or wind
5. If there isn't much soil then there are many problems with the plot of land

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

1. Soil can be overworked
2. Bad soil=bad crops
3. There are many good things for soil.

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

None