USDA United States Department of Agriculture

Natural Resources Conservation Service – Soil Science Division

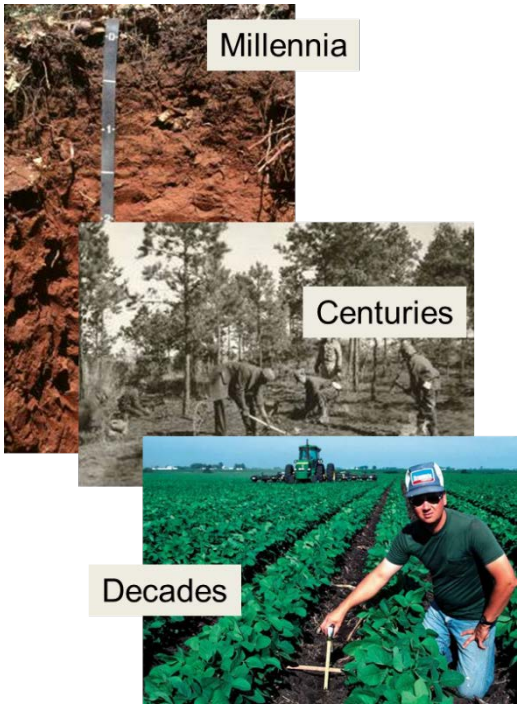
Dynamic Soil Properties

Dynamic Soil Properties (DSPs) Vision

Deliver scientifically defensible soil information to support conservation management for healthy soils and sustainable ecosystems

DSP projects types: The Soil Science Division is conducting data collection and analysis to support enhanced soil survey information

- **General DSP data collection**
  - Dispersed samples collected across soils, ecological sites and MLRAs to characterize DSPs across conditions and management systems
  - Establish baseline or reference conditions
- **Conservation Assessment**
  - Samples are collected to answer regionally important questions about the impact of systems and practices on DSPs
  - Usually target
- **Soil Change Study**
  - Samples are collected to document the changes in DSPs that have occurred over decadal time scales due to land use and management



DSPs are soil properties that change on the human time scale and are impacted by management and disturbance.

DSP Products and Uses

- **Enhanced Soil Survey Products**
  - Soil survey products can be tailored to current conditions
- **Improved Soil Condition Assessment**
  - Provide baseline and potential values for soil health assessment
- **Answers to Conservation Questions**
  - Compare individual practice impacts for given soils or conditions
- **Enhanced Understanding of Conservation and Change**
  - Improved calibration and validation of conservation effects models