

# Soil Survey Status & Issues on Public Lands – BLM Report

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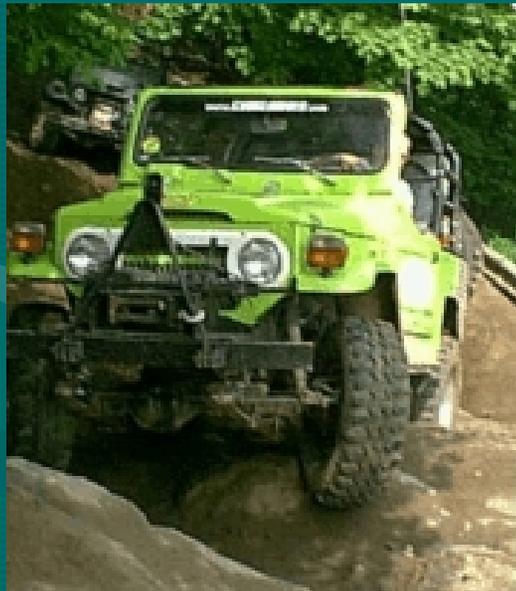
National Science & Technology Center

Denver, CO

# BLM Management Priorities - energy

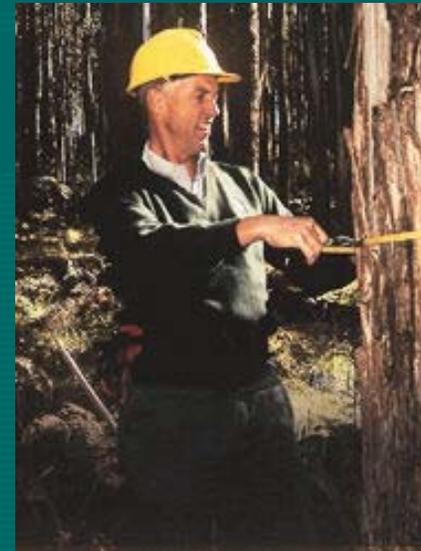


# Other Management Priorities

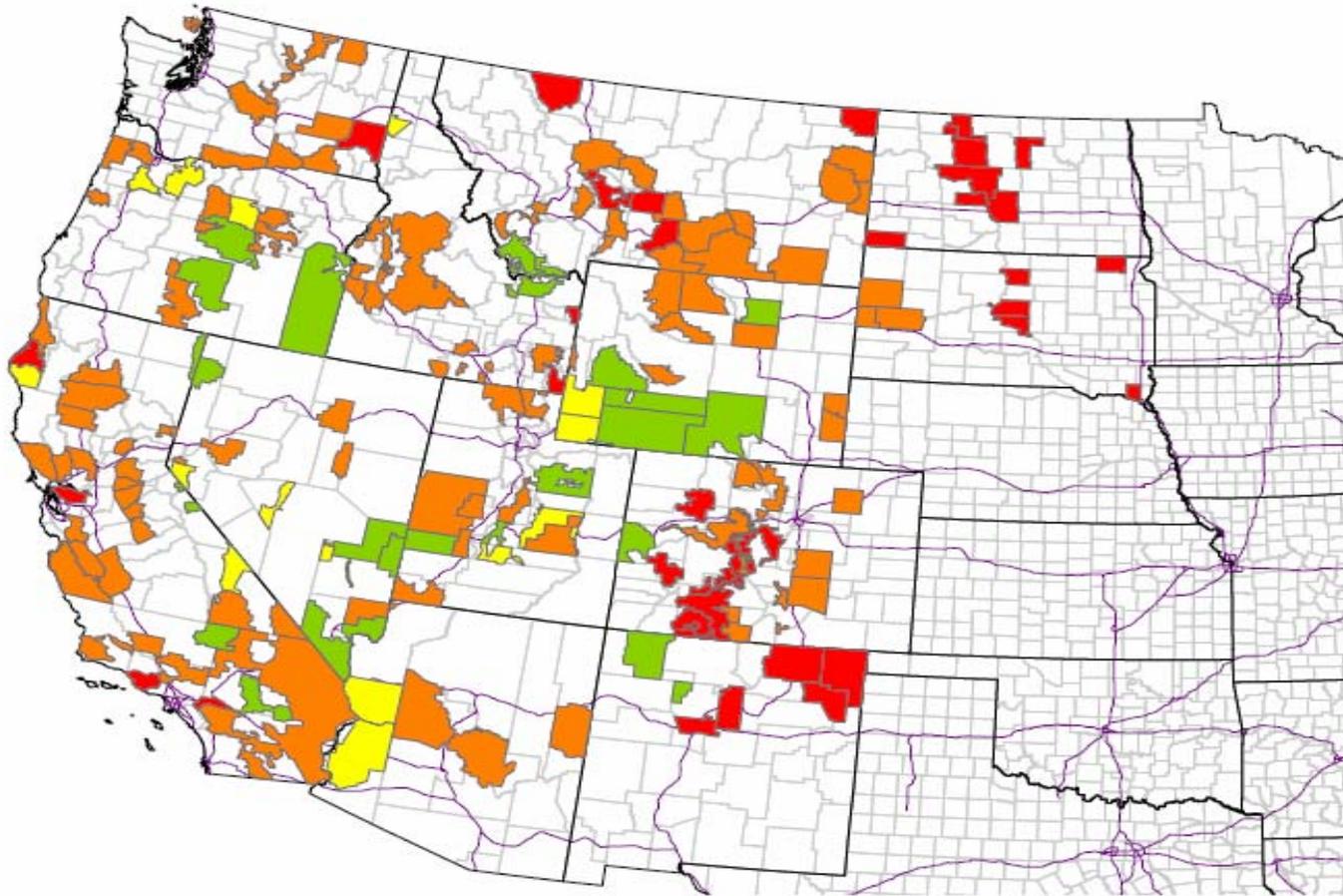


# BLM Monitoring Strategy

- Develop strategy to provide monitoring data at the local, regional and national scales
- National scale pilot project in central Oregon using NRI and FIA



# BLM Soil Survey Needs



# Advanced Technology in Soil Mapping

## PROXY IDENTIFICATION

Climate (c)

Organisms (o)

Topography (t)

Parent material (p)

Precipitation  
Temperature

Vegetation maps  
Vegetation Indices

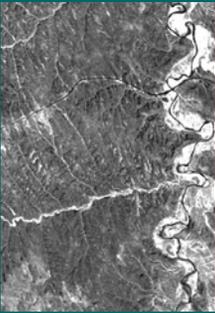
Slope  
Aspect  
CTI  
Elevation

Multi-spectral images  
Bedrock geology

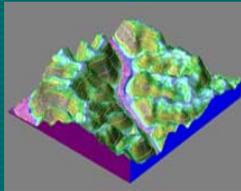
Unsupervised Classification

Supervised Classification

Knowledge Based Classification



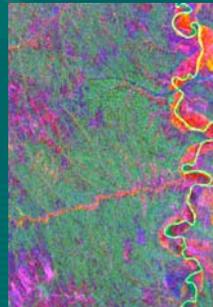
NDVI



TM

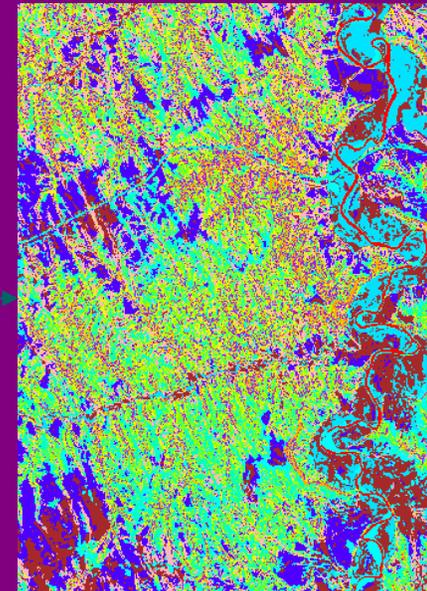
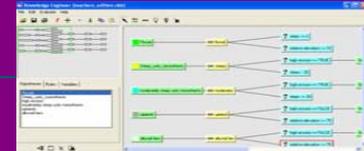


Spatial Modeler



Band Ratio

## Expert Classifier



Soil Pre-map Raster Product

Search  
GO

- Quick Access
- National Cooperative Soil Survey (NCSS)
- Listing of Soil Surveys by State
- Online Soil Surveys
- Status Maps
- Official Soil Series Descriptions (OSD)
- Soil Survey Schedule
- Soil Data Mart
- OTG(county technical guides)
- National Soil Characterization Data
- Soil Quality
- Soil Geography
- Soil Research Results
- Soil Geochemistry
- Spatial Database

- Find a Service Center
- States and Regions
- Centers and Institutes

Access to soil survey information is provided through maps. All text and tables relate to the map symbols and the areas delineated on these maps. Persons with disabilities who require alternative means for communication of soil survey information should contact the [NRCS at the USDA Service Center](#) that services the county of interest. See also the [NRCS Accessibility Statement](#).

## Start WSS



# Web Soil Survey

Version 1.0

[View Maintenance Schedule](#)  
[Supported Browsers](#)

## Welcome to the NCSS Web Soil Survey.

**3 Basic Steps** make WSS a simple yet powerful way to access and analyze soil data.

### 1 Define.

#### Area of Interest



Use the Area of Interest tab to define the area you are interested in. You can define an area by zooming in on a map and drawing a box around your area or by selecting from a choice list. You must complete this step before you can go on to the next two steps.

### 2 View.

#### Soil Map

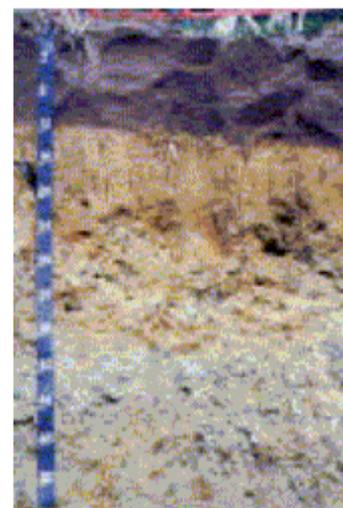
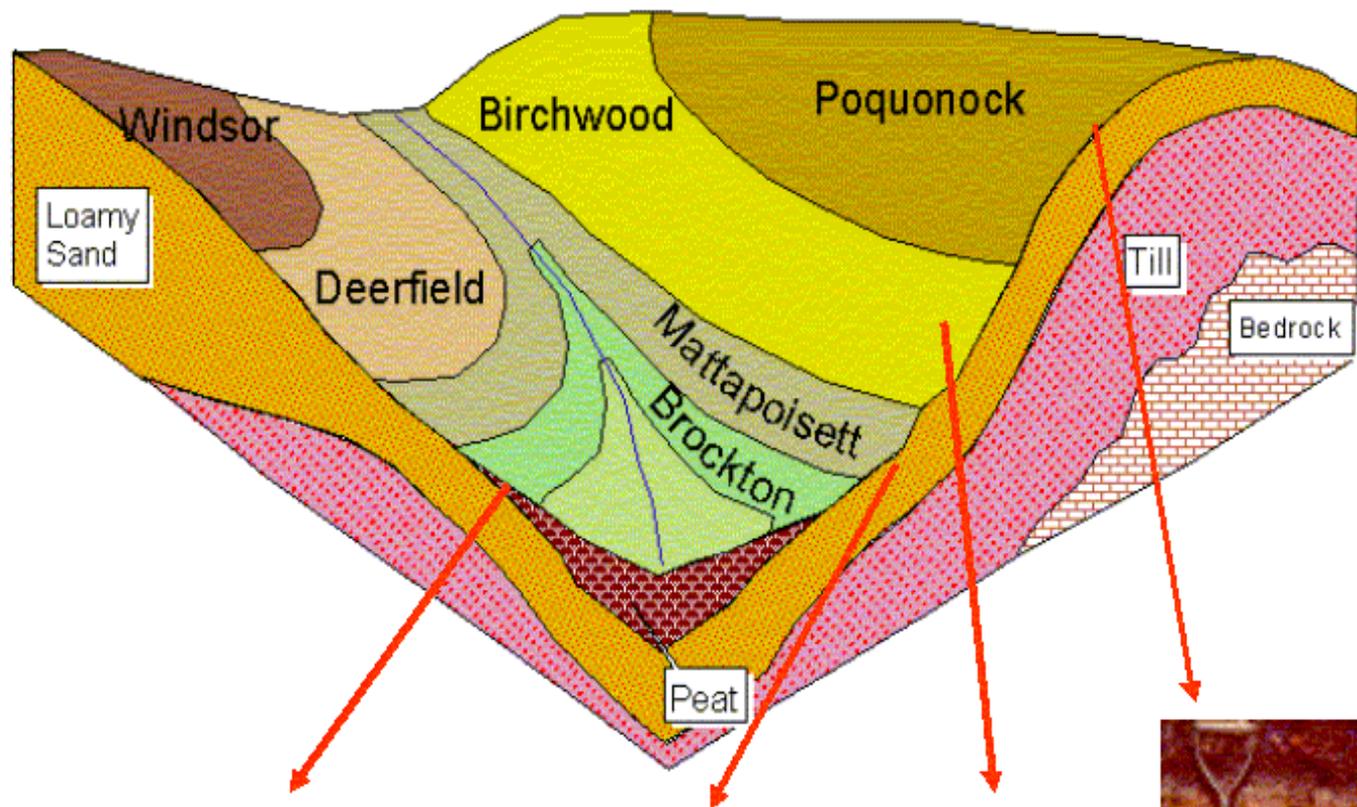


Next, click on the Soil Map tab to view and print a map of the soils in your area.

### 3 Explore.

# Soil/Geology

- Bedrock
- Birchwood
- Brockton
- Deerfield
- Mattapoissett
- Poquonock
- Solum
- Swansea
- Till
- Windsor
- peat



# Data Access

- Customers need the ability to access point data from surveys
- Pedon data could be made available on the web or through ftp site
- If possible it should be made available in a geospatial format

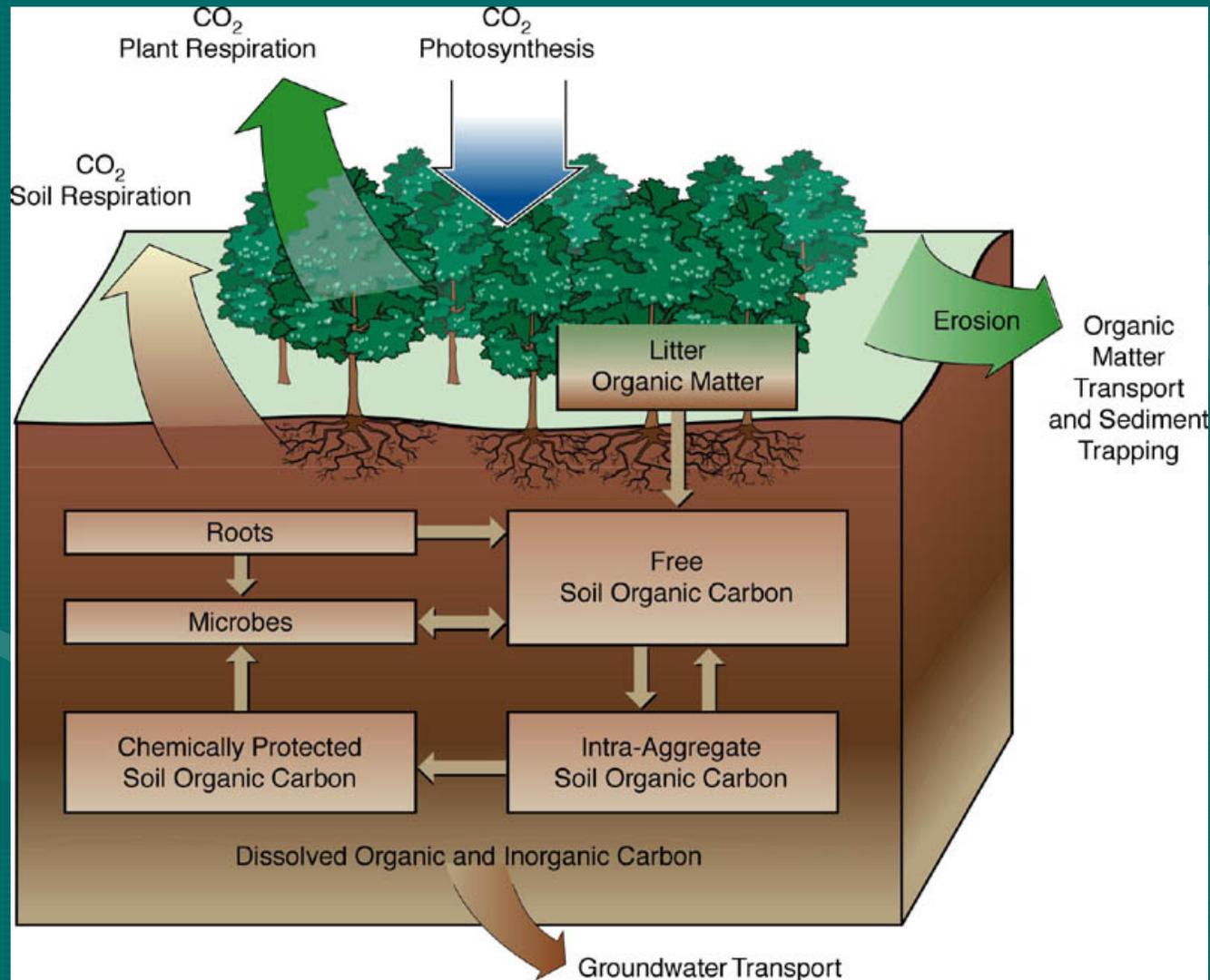


# Develop Multimedia Products

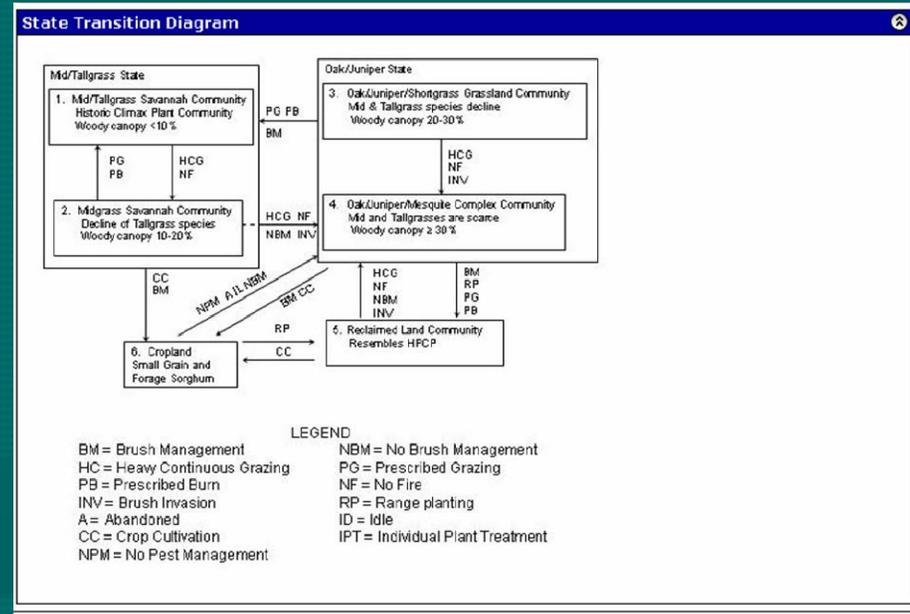
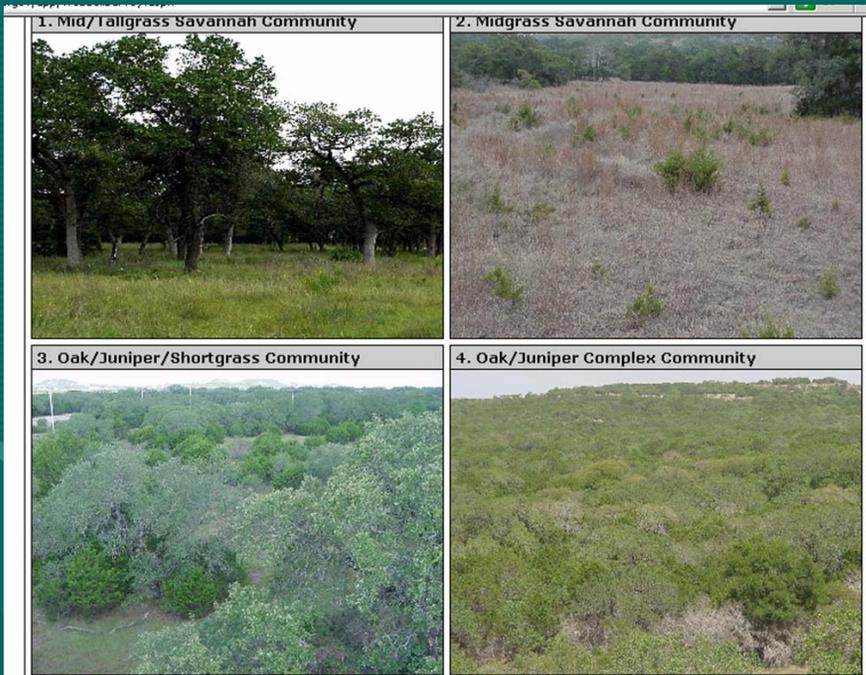
- The land has a story to tell
- Short multimedia product highlighting geomorphology, geology, major soil formation on the landscape, vegetation communities, & uses of soil survey
- Would help sell soil survey program to customers and the public



# Development of Innovative Process-based Interpretations



# Ecological Site Classification and Descriptions



# Research Opportunities



**Public Land Research  
Opportunities**

**Funding sources**

# Future goals

- Eventually we want to get all our public lands mapped
- Work on rangeland interpretations has been interrupted but we still plan to work with NRCS in developing these and other interpretations
- BLM will continue to strongly support the National Cooperative Soil Survey