

How To Use Web Soil Survey 3.0

Contents

- I. About Web Soil Survey
- II. Soil Data for an Area of Interest
 - a. Define an Area of Interest (AOI)
 - b. View Soil Map
 - c. Explore Additional Soil Information
 - d. Shopping Cart for Selected Information
- III. Download Soil Data for GIS

Part I: About the Web Soil Survey (WSS)

- Purpose
- Products
- New Features
- Pathways
- Starting WSS
- Opening Screen
- The Interactive Map

Purpose

- The WSS is a Web application that provides customers (producers, agencies, technical service providers, and others) electronic access to relevant soil and related information needed to make wise land use and management decisions.
- WSS replaces the traditional hardcopy publication.
- WSS provides quicker delivery of new or updated information.

Purpose—cont.

- WSS provides interactive access to the most current official data.
- WSS allows you to select the information you want:
 - Map units for your geographic area of interest (AOI),
 - Information relevant to your land use concerns; e.g., rangeland or cropland.
 - Downloadable soil survey data for use in a local geographic information system (GIS).

Products

- WSS can produce a soil map for your AOI using color imagery or a topographic map as a backdrop.
- WSS can produce tables of soil property data and interpretations by AOI.

Products—cont.

- WSS allows you to download SSURGO data clipped to your AOI.
- WSS allows you to download SSURGO data sets for entire soil survey areas.
- WSS allows you to download STATSGO2 data sets for entire states or for the entire United States.

Products—cont.

- WSS allows you to generate a custom soil resource report (in PDF) by adding selections to the free shopping cart.
 - The report is customized for your AOI.
 - The soil map, map unit legend, and map unit descriptions are included by default.
 - The other content is specifically chosen by you:
 - Thematic maps (including summary tables and text),
 - Ecological site description map and information,
 - Tabular data tables, and
 - Introductory material.

New Features

USDA United States Department of Agriculture Natural Resources Conservation Service

Web Soil Survey

Home About Soils Help Contact Us

You are here: Web Soil Survey Home

Search
Enter Keywords
All NRCS Sites

Browse by Subject

- Soils Home
- National Cooperative Soil Survey (NCSS)
- Archived Soil Surveys
- Status Maps
- Official Soil Series Descriptions (OSD)
- Soil Series Extent Mapping Tool
- Soil Data Mart
- Geospatial Data Gateway
- eFOTG

The simple yet powerful way to access and use soil data.

START WSS

I Want To...

- Start Web Soil Survey (WSS)
- Know the requirements for running Web Soil Survey – will Web Soil Survey work in my web browser?
- Know the Web Soil Survey hours of operation
- Find what areas of the U.S. have soil data

Welcome to Web Soil Survey (WSS)

Web Soil Survey (WSS) provides soil data and information produced by the National Cooperative Soil Survey. It is operated by the USDA Natural Resources Conservation Service (NRCS) and provides access to the largest natural resource information system in the world. NRCS and data available online for more than 90 percent of the nation's counties and anticipates having 100 percent in the near future. The site is updated and maintained online as the single authoritative source of soil survey information.

Soil surveys can be used for general farm, local, and wider area planning. Onsite investigation is needed in some cases, such as [soil quality assessments](#) and certain conservation and engineering applications. For more detailed information, contact your local

Announcements/Events

- Web Soil Survey 3.0 has been released! [View description of new features.](#)
- Web Soil Survey Release History

- A link to a list of new features is available from the homepage of WSS.

New Features—cont.

USDA United States Department of Agriculture Natural Resources Conservation Service

Web Soil Survey

Home About Soils Help Contact Us

You are here: [Web Soil Survey Home](#) / [Web Soil Survey 3.0 New Features](#)

Web Soil Survey 3.0 — New Features

Area of Interest (AOI) Size Limit Increased

The AOI size limit has been increased from 10,000 to 100,000 acres. Soil survey areas exceeding this limit can still be set as AOIs using Quick Navigation.

AOI Information
Name
Map Unit Symbols
 Use Soil Survey Area Map Unit Symbols
 Use National Map Unit Symbols

- After clicking on the link, scroll down the screen to see all new features.

New Features—cont.

- The maximum size for an AOI has been increased from 10,000 to 100,000 acres.
- The map imagery and map appearance have been improved.
- The number of options for changing map properties has been expanded to include:
 - Soil boundary color,
 - Soil boundary thickness,
 - Soil label size, and
 - Background image opacity.

New Features—cont.

- The identify tool can now display information about multiple data layers at the same time.
- SSURGO and STATSGO2 data can now be downloaded directly from WSS. You no longer need to go to the Soil Data Mart.
- Support has been added for data regarding the Pacific Island Area.
- Support has been added for map unit line and point data.

New Features—cont.

- The options for tiling printable maps have been improved.
- RSS notifications are now available regarding soil data updates.
- WSS is now online 24/7.

Pathways through WSS

- Two major pathways are available for using WSS:
 1. Define an area of interest, view the soil map, explore additional soil data, and check out with a report or data download that includes the selected information.
 2. Download SSURGO data for a whole soil survey area, or STATSGO2 data for a state or the entire U.S. directly from the "Download Soils Data" tab.

Pathway 1

- Define an area of interest (AOI). You must specifically set the AOI before you can view maps or reports in WSS.
 - In addition to maps and reports, a SSURGO GIS dataset may be downloaded that is clipped to the AOI boundary.
- View the soil map. The WSS generates a soil map for your AOI if the spatial data is available.

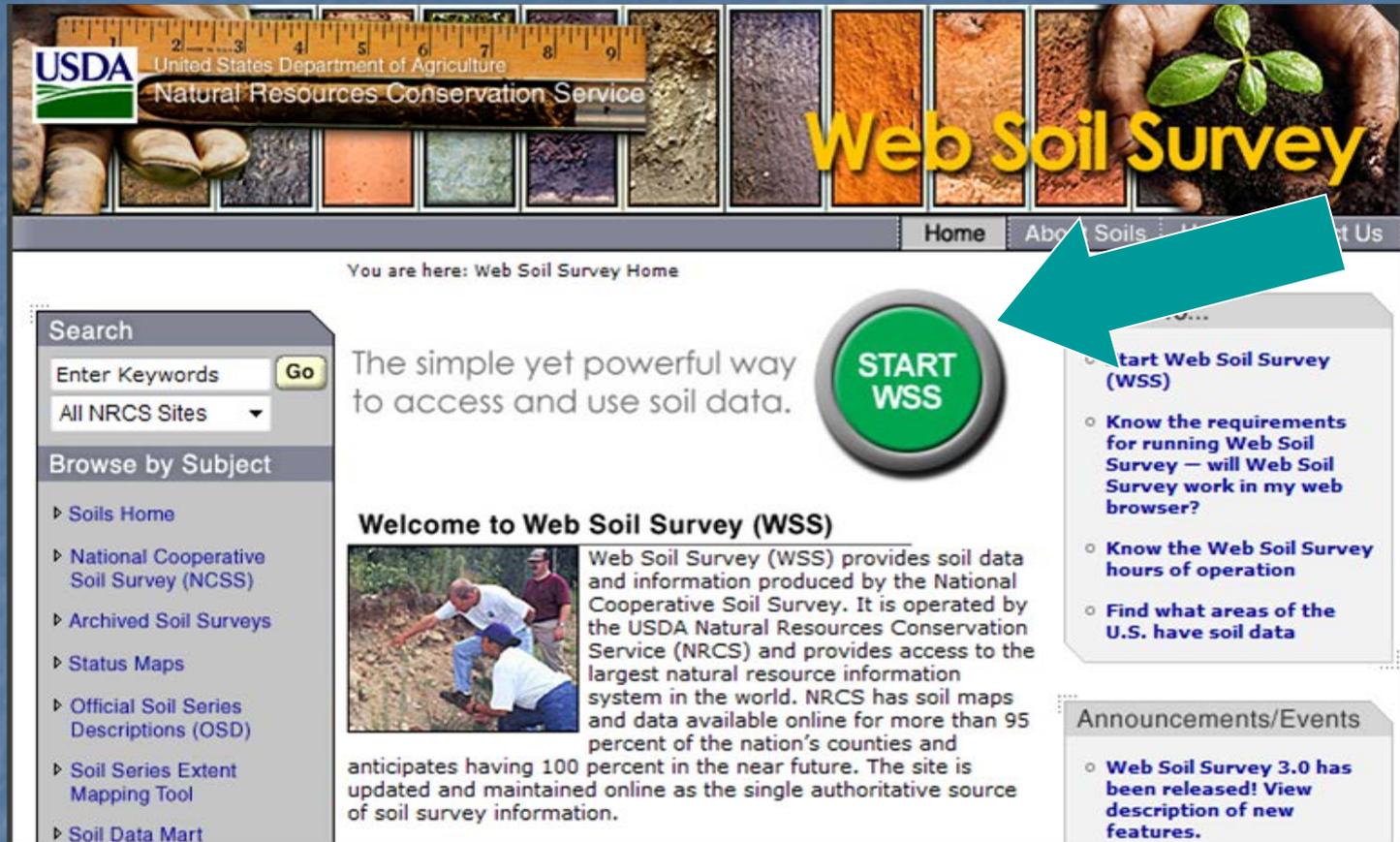
Pathway 1

- Explore additional soil data and related information.
 - Generate thematic maps.
 - Access tabular data and interpretive tables.
 - Print or download the selected maps and reports.
- Check out with the selected information by building a custom soil resource report in the shopping cart or by downloading SSURGO data clipped to the AOI.

Pathway 2

- WSS 3.0 allows you to download raw soil data for use in a local GIS.
- Select the "Download Soils Data" tab. You can download:
 - SSURGO data clipped to the AOI boundary,
 - SSURGO data for entire soil survey areas,
 - STATSGO2 data by state or for the entire U.S.

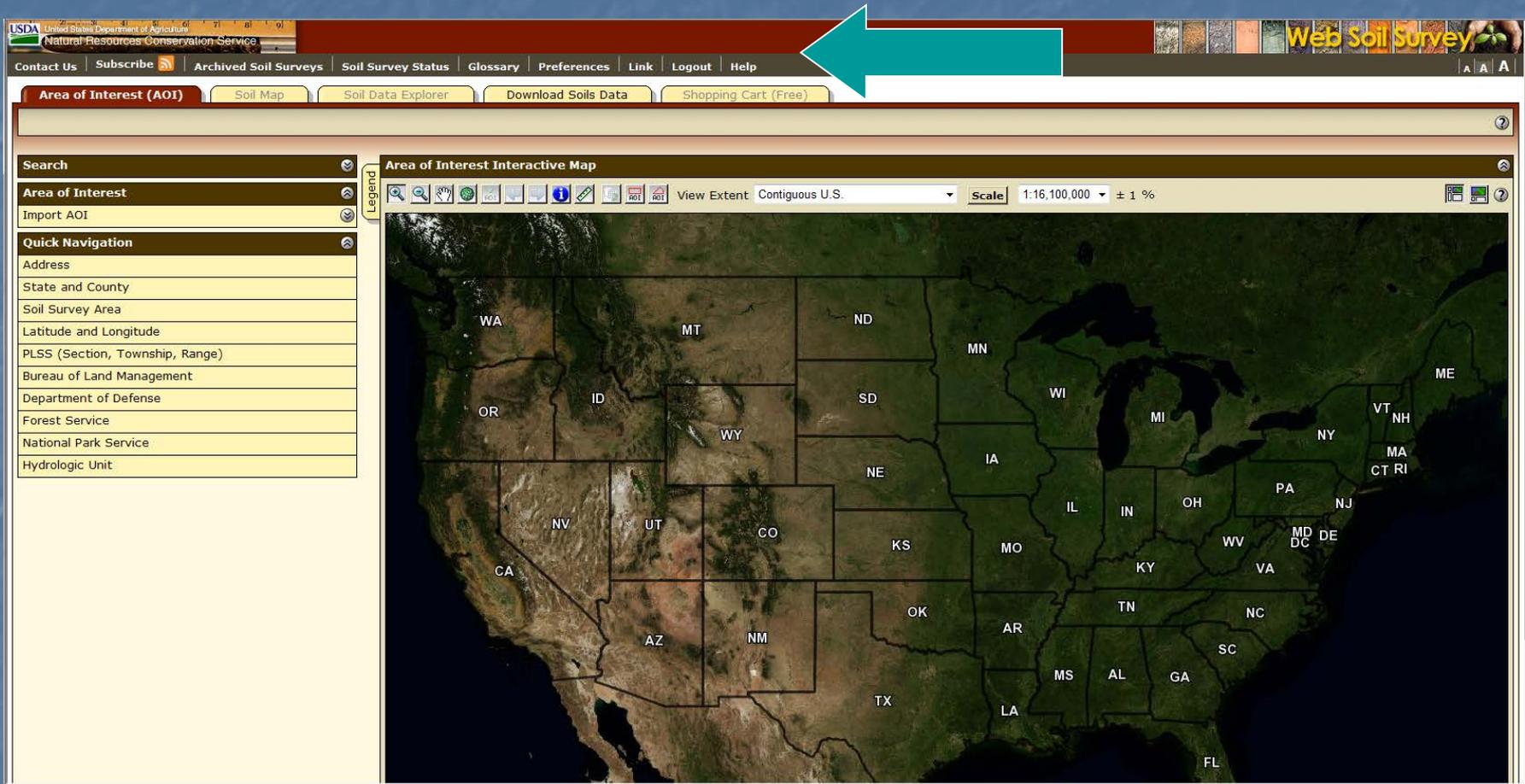
Starting Web Soil Survey



The screenshot shows the homepage of the Web Soil Survey. At the top, there is a banner with the USDA logo and the text "United States Department of Agriculture Natural Resources Conservation Service". Below the banner is a navigation menu with links for "Home", "About Soils", and "Contact Us". The main content area includes a search bar with the text "Enter Keywords" and a "Go" button, and a "Browse by Subject" section with links for "Soils Home", "National Cooperative Soil Survey (NCSS)", "Archived Soil Surveys", "Status Maps", "Official Soil Series Descriptions (OSD)", "Soil Series Extent Mapping Tool", and "Soil Data Mart". The central text reads "The simple yet powerful way to access and use soil data." and "Welcome to Web Soil Survey (WSS)". A large green button with the text "START WSS" is prominently displayed. A teal arrow points to this button. To the right of the button is a list of links, including "Start Web Soil Survey (WSS)", "Know the requirements for running Web Soil Survey", "Know the Web Soil Survey hours of operation", and "Find what areas of the U.S. have soil data". Below this is an "Announcements/Events" section with a link for "Web Soil Survey 3.0 has been released!".

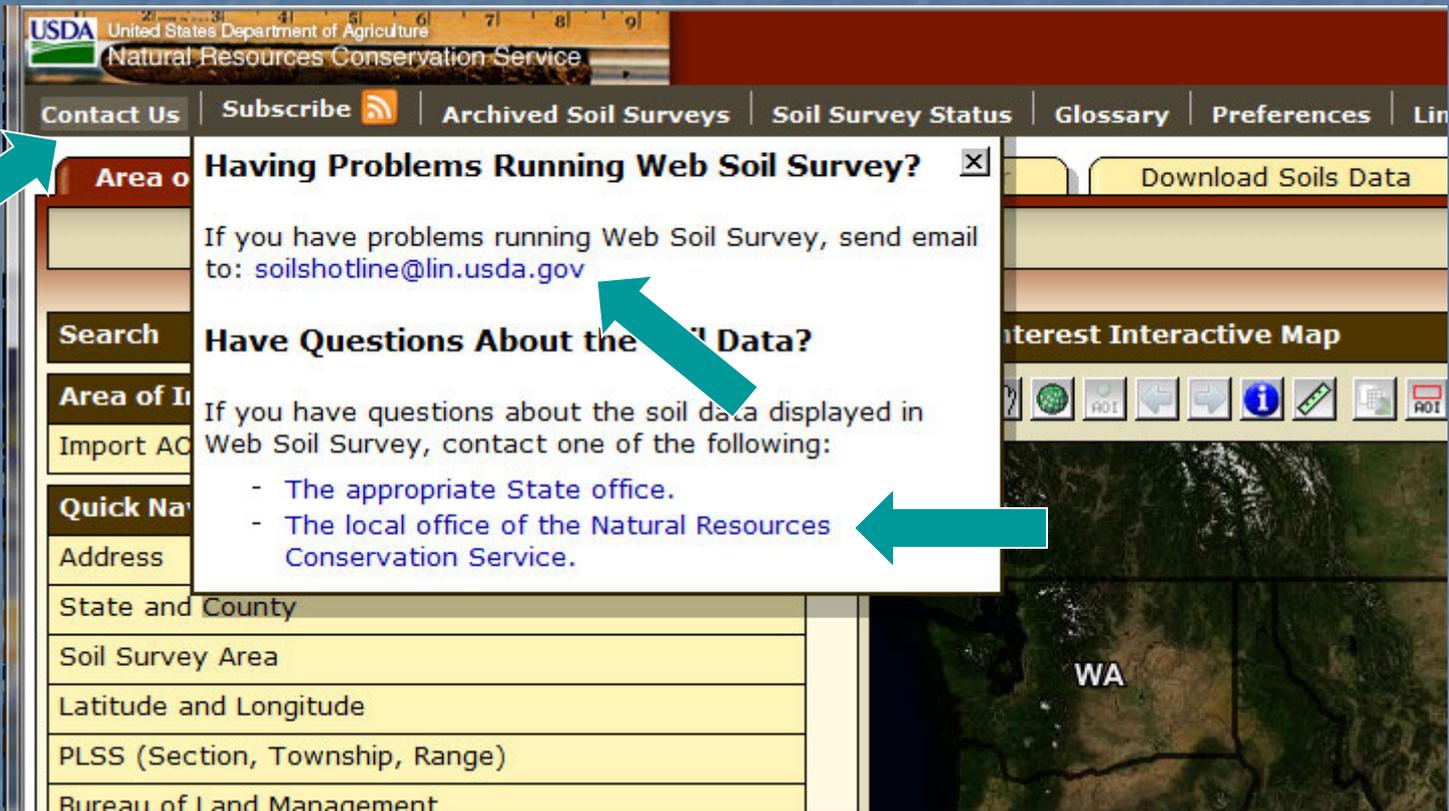
- On the homepage (<http://websoilsurvey.nrcs.usda.gov/>), click on the big green button to start the Web Soil Survey.

The Opening Screen



- This is the opening screen after starting WSS.
- The top navigation bar includes selections for Contact Us, Subscribe, Archived Soil Surveys, Soil Survey Status, Glossary, Preferences, Link, Logout, and Help.

Contact US



The screenshot shows the USDA Natural Resources Conservation Service website. The top navigation bar includes links for 'Contact Us', 'Subscribe', 'Archived Soil Surveys', 'Soil Survey Status', 'Glossary', 'Preferences', and 'Lin'. A teal arrow points to the 'Contact Us' link. Below the navigation bar, there are sections for 'Area of Interest', 'Search', 'Area of Interest', 'Import AC', 'Quick Name', 'Address', 'State and County', 'Soil Survey Area', 'Latitude and Longitude', 'PLSS (Section, Township, Range)', and 'Bureau of Land Management'. A pop-up window titled 'Having Problems Running Web Soil Survey?' is open, containing the text: 'If you have problems running Web Soil Survey, send email to: soilshotline@lin.usda.gov'. A teal arrow points to this email link. Below this, another section titled 'Have Questions About the Soil Data?' contains the text: 'If you have questions about the soil data displayed in Web Soil Survey, contact one of the following:' followed by a list: '- The appropriate State office.' and '- The local office of the Natural Resources Conservation Service.' A teal arrow points to this list. The background of the website shows a map of Washington state (WA) with various icons and a 'Download Soils Data' button.

- You can get help via email by clicking on "Contact Us" and then clicking on one of the links.

RSS Subscriptions



The screenshot shows the USDA website's opening screen. A teal arrow points to the 'Subscribe' button in the top navigation bar. Below the navigation bar, there are buttons for 'Download Soils Data' and 'Shopping Cart (Free)'. A 'Subscribe to RSS Feeds' dialog box is open, displaying a list of states and territories for selection. The list includes: All States and Territories, Alabama, Alaska, American Samoa, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, District of Columbia, Federated States of Micronesia, Florida, and Georgia. To the right of the dialog box, there is an 'Interest Interactive Map' showing a satellite view of the contiguous United States with state boundaries and labels for WA, MT, and ND.

- You can click "Subscribe" to begin the RSS subscription process.

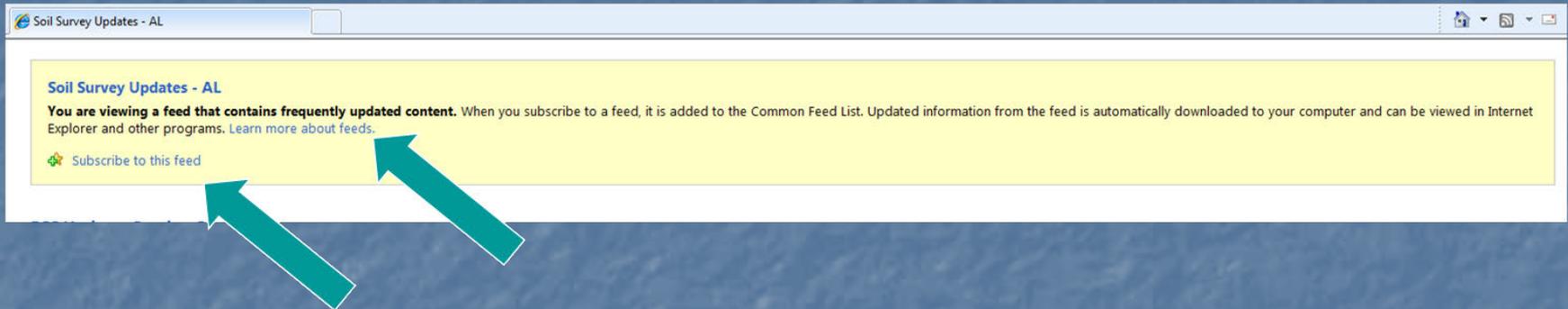
RSS Subscriptions—cont.

- WSS 3.0 allows you to subscribe to RSS notifications regarding the updating of data for soil survey areas.
- Updates to official soil survey data are generally only made on October 1 of each year. Exceptions are made for newly completed datasets. Exceptions are also made to resolve critical issues on a case-by-case basis.

RSS Subscriptions—cont.

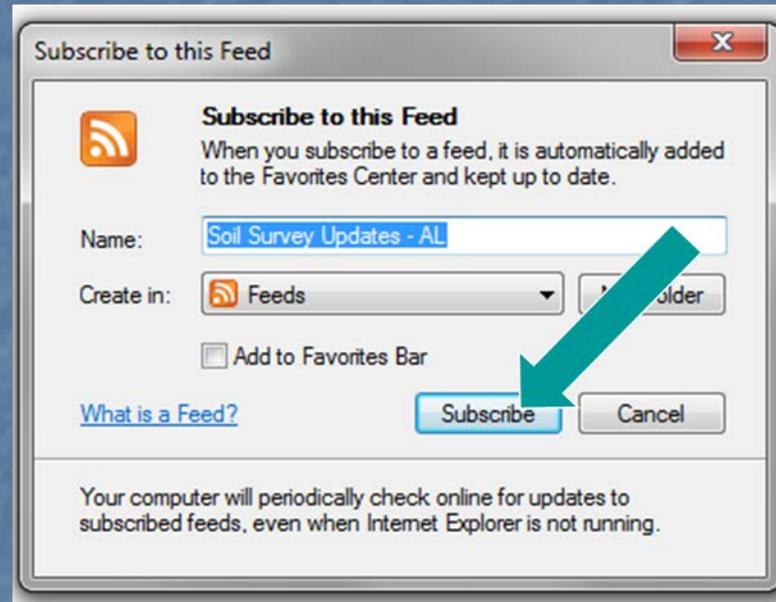
- Clicking on one of the State links opens a Web page that provides instructions for subscribing to the RSS feed.
- A listing of soil survey areas that have been updated in the selected state will be shown.

RSS Subscriptions—cont.



- Click on the "Subscribe to this feed" link to initiate your subscription.
- A second link is provided to "Learn more about feeds."

RSS Subscriptions—cont.



- The following dialog box is displayed. Click the "Subscribe" button to complete the process.

Archived Soil Survey Publications

The screenshot displays the USDA Natural Resources Conservation Service website. The navigation bar includes links for 'Contact Us', 'Subscribe', 'Archived Soil Surveys', 'Soil Survey Status', 'Glossary', 'Preferences', 'Link', 'Logout', and 'Help'. The 'Archived Soil Surveys' section is active, showing a text box that reads: 'To view a list of archived soil survey versions available for the specified Area of Interest, see [Published Soil Surveys for Nebraska](#)'. Below this, there is a 'Soil Map' section with a scale of 1:7,580 and a legend. On the left, there is a 'Search' section and a 'Suitabilities and Limitations Ratings' section with a list of categories: Building Site Development, Construction Materials, Disaster Recovery Planning, Land Classifications, Land Management, and Military Operations. Each category has a question mark and a dropdown arrow icon.

- Listings of published soil surveys are stored on an external Web site. For a listing of the state(s) included in the AOI, click the link.

Archived Soil Survey Publications—cont.

United States Department of Agriculture
NRCS Natural Resources
Conservation Service
Soils

[Soils Home](#) | [About Us](#) | [Soil Survey](#) | [Soil Use](#) | [Soil Education](#) | [Photo Gallery](#) | [Technical References](#) | [Partnerships](#) | [Contact Us](#)

Search

Soils

Enter Keywords

Soil Survey

- ▶ Web Soil Survey
- ▶ Soil Data Mart
- ▶ Listing Of Soil Surveys by State
- ▶ Job Aids
- ▶ National Cooperative Soil Survey Soil Characterization Data
- ▶ Soil Climate Research Stations
- ▶ Soil Geochemistry Spatial Database
- ▶ Soil Geography
- ▶ eFOTG (county technical guides)
- ▶ Million-Acre Mappers

Find a Service Center

States and Regions

Centers and Institutes

Published Soil Surveys for Nebraska

Soil surveys are being completed and published on a continuing schedule. As time passes, the data in published surveys become dated. The official information about the soils in a given area is available from the [Soil Data Mart](#), which provides the most current data about the soils. If spatial data are available, the [Web Soil Survey](#) also provides access to the most current information. In the "Date" column, the word "current" is used for those surveys having both tabular and spatial data in the Soil Data Mart. "Archived PDF online" refers to any surveys published as PDF files on the Web, including new surveys as well as old ones dating back to 1899.

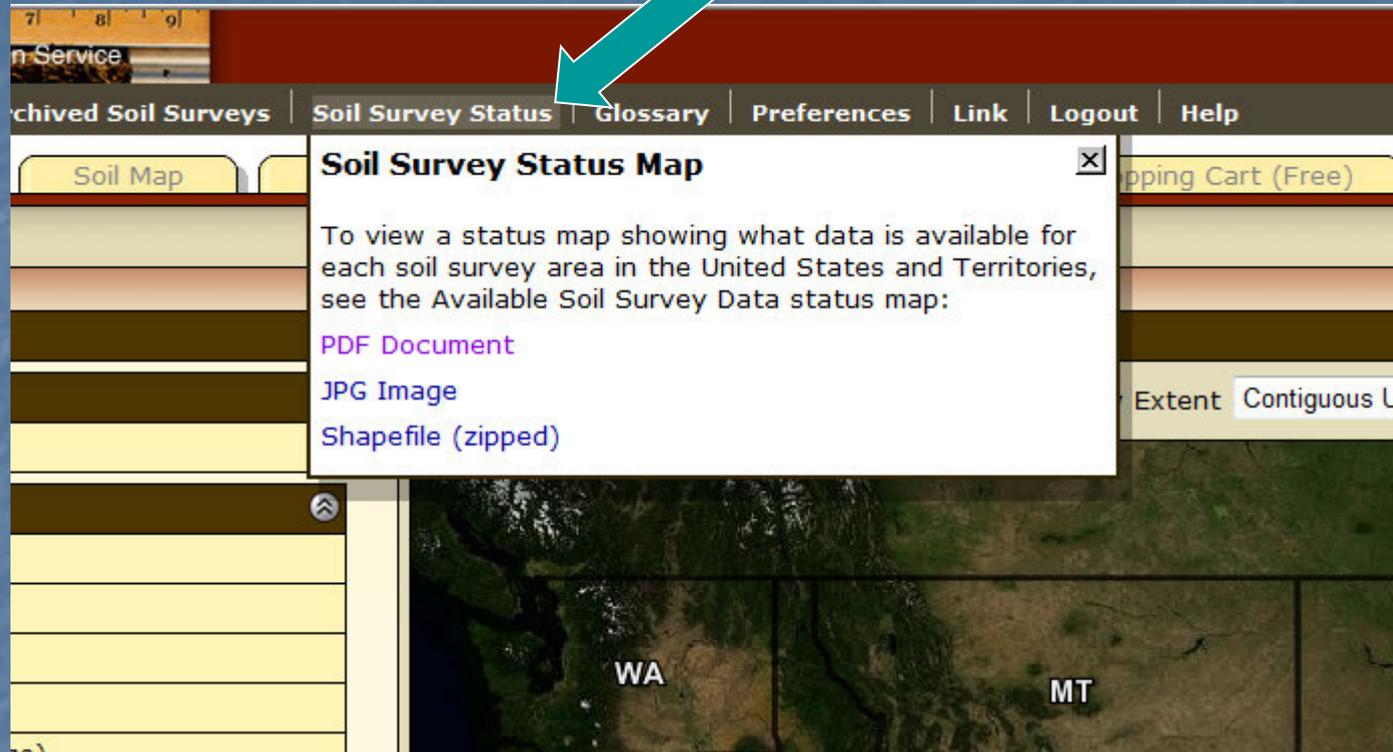
PDF files require Acrobat Reader.
Follow these instructions to download both text and maps.
[How to Save an Archived Soil Survey Publication to Your Local Machine](#) (PDF; 2.8 MB)

For information about areas not included on the following list of soil survey publications or for ordering or obtaining information about reference copies (CD-ROM or paper copy), contact:

State Conservationist
 Federal Building, Room 152
 100 Centennial Mall North
 Lincoln, NE 68508-3866
 Phone: 402-437-5300
 FAX: 402-437-5327

| Soil survey name (Follow links for online surveys.) | Date | Paper copy available | CD-ROM | Archived PDF online | Web Soil Survey (generated from official soil data) |
|---|---------|----------------------|--------|---------------------|---|
| Adams County | 1923 | No | No | No | No |
| Adams County | 1974 | Yes | Yes | Yes | No |
| Adams County | Current | No | No | No | Yes |
| Antelope County | 1924 | No | No | No | No |
| Antelope County | 1978 | Yes | No | Yes | No |
| Antelope County | Current | No | No | No | Yes |
| Arthur and Grant Counties | 1977 | Yes | No | Yes | No |
| Arthur County | Current | No | No | No | Yes |
| Banner County | 1921 | No | No | No | No |
| Banner County | 1994 | Yes | No | Yes | No |
| Banner County | Current | No | No | No | Yes |
| Blaine County | 1954 | No | No | No | No |
| Blaine County | 1993 | Yes | No | Yes | No |

Soil Survey Status



- This menu item includes a link to a map showing what types of data (tabular, spatial, or both) are available for each soil survey area.

Glossary of Soil Terms



USDA United States Department of Agriculture
Natural Resources Conservation Service

Contact Us | Subscribe | Archived Soil Surveys | Soil Survey Status | **Glossary** | Preferences | Link | Logout | Help

Area of Interest (AOI) | Soil Map | Soil Data Explorer

Search

Area of Interest

Import AOI

Quick Navigation

Address

State and County

Soil Survey Area

Latitude and Longitude

PLSS (Section, Township, Range)

Bureau of Land Management

Department of Defense

Forest Service

National Park Service

Hydrologic Unit

Glossary

Many of the terms relating to landforms, geology, and geomorphology are defined in more detail in the "National Soil Survey Handbook."

ABC soil

A soil having an A, a B, and a C horizon.

Ablation till

Loose, relatively permeable earthy material deposited during the downwasting of nearly static glacial ice, either contained within or accumulated on the surface of the glacier.

AC soil

A soil having only an A and a C horizon. Commonly, such soil formed in recent alluvium or on steep, rocky slopes.

Aeration, soil

The exchange of air in soil with air from the atmosphere. The air in a well aerated soil is similar to that in the atmosphere; the air in a poorly aerated soil is considerably higher in carbon dioxide and lower in oxygen.

Aggregate, soil

Many fine particles held in a single mass or cluster. Natural soil aggregates, such as granules, blocks, or prisms, are called peds. Clods are aggregates produced by tillage or logging.

Alkali (sodic) soil

A soil having so high a degree of alkalinity (pH 8.5 or higher) or so high a percentage of exchangeable sodium (15 percent or more of the total exchangeable bases), or both, that plant growth is restricted.

Alluvial cone

A semiconical type of alluvial fan having very steep slopes. It is higher, narrower, and steeper than a fan and is composed of coarser and thicker layers of material deposited by a combination of alluvial episodes and (to a much lesser degree) landslides (debris flow). The coarsest materials tend to be concentrated at the apex of the cone.

Preferences

USDA United States Department of Agriculture
Natural Resources Conservation Service

Contact Us | Subscribe | Archived Soil Surveys | Soil Survey Status | Glossary | Preferences | Link | Logout | Help

Area of Interest (AOI) | Soil Map | Soil Data Explorer | Download

Search
Area of Interest
Import AOI
Quick Navigation
Address
State and County
Soil Survey Area
Latitude and Longitude
PLSS (Section, Township, Range)
Bureau of Land Management
Department of Defense
Forest Service
National Park Service
Hydrologic Unit

Area of Interest Interactive

Legend

Scale 1:16,7

Scope of Preferences

Remember preferences after the end of this session

Application Preferences

Show Maps by Default

Open Links and PDFs in External Windows

Color Scheme

Soil

Windows

Forest

Cancel | Reset Defaults | Save Preferences

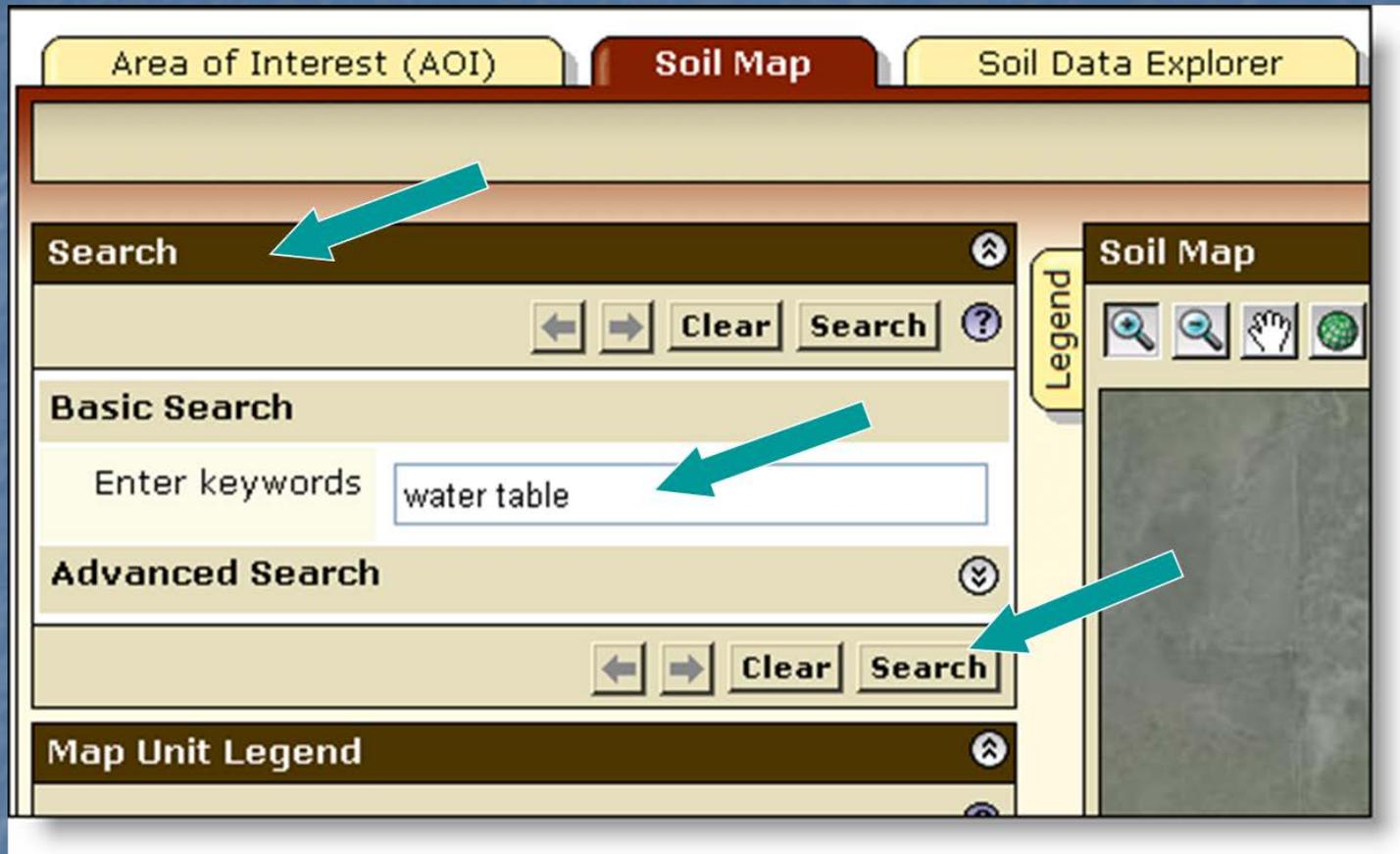
- You can set certain user preferences. For example:
 - You can choose to view PDF files and links in the same browser window as WSS or in different window,
 - You can choose not to view maps by default, and
 - You can choose between three color schemes.

Help

The screenshot shows the USDA Web Soil Survey opening screen. The top navigation bar includes links for Contact Us, Archived Soil Surveys, Soil Survey Status, Glossary, Preferences, Link, Logout, and Help. A teal arrow points to the 'Help' link. The 'Web Soil Survey' logo is in the top right corner, with another teal arrow pointing to it. Below the navigation bar are tabs for Area of Interest (AOI), Soil Map, Soil Data Explorer, Download Soils Data, and Shopping Cart (Free). On the left side, there is a search panel with a 'View' button and a '?' icon, with a teal arrow pointing to the '?' icon. The main area is titled 'Area of Interest Interactive Map' and features a map of the United States with state abbreviations. A teal arrow points to a '?' icon in the top right corner of the map area.

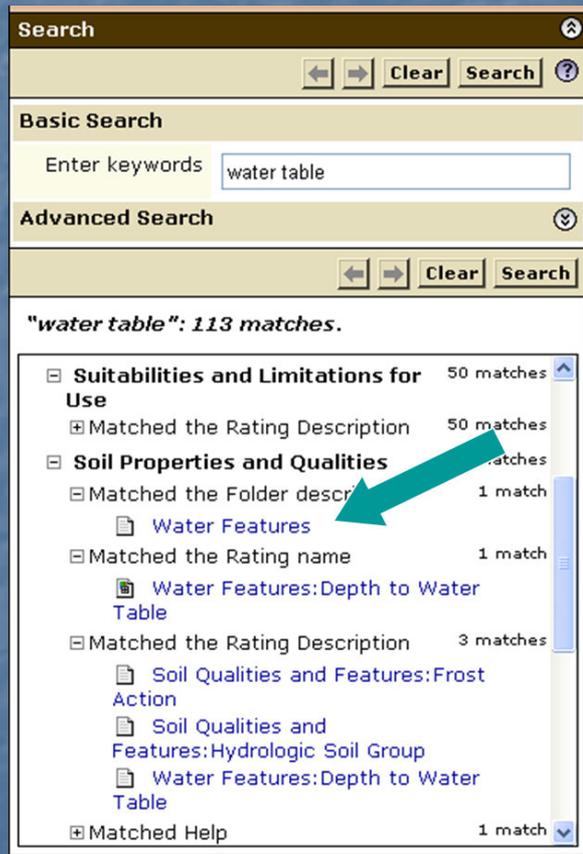
- You can get general help from the top navigation bar or context-specific help from the "?" symbols.

Search



- The WSS has a search function.
- Click Search title bar. Enter key word(s). Click "Search" button.

Search-cont.



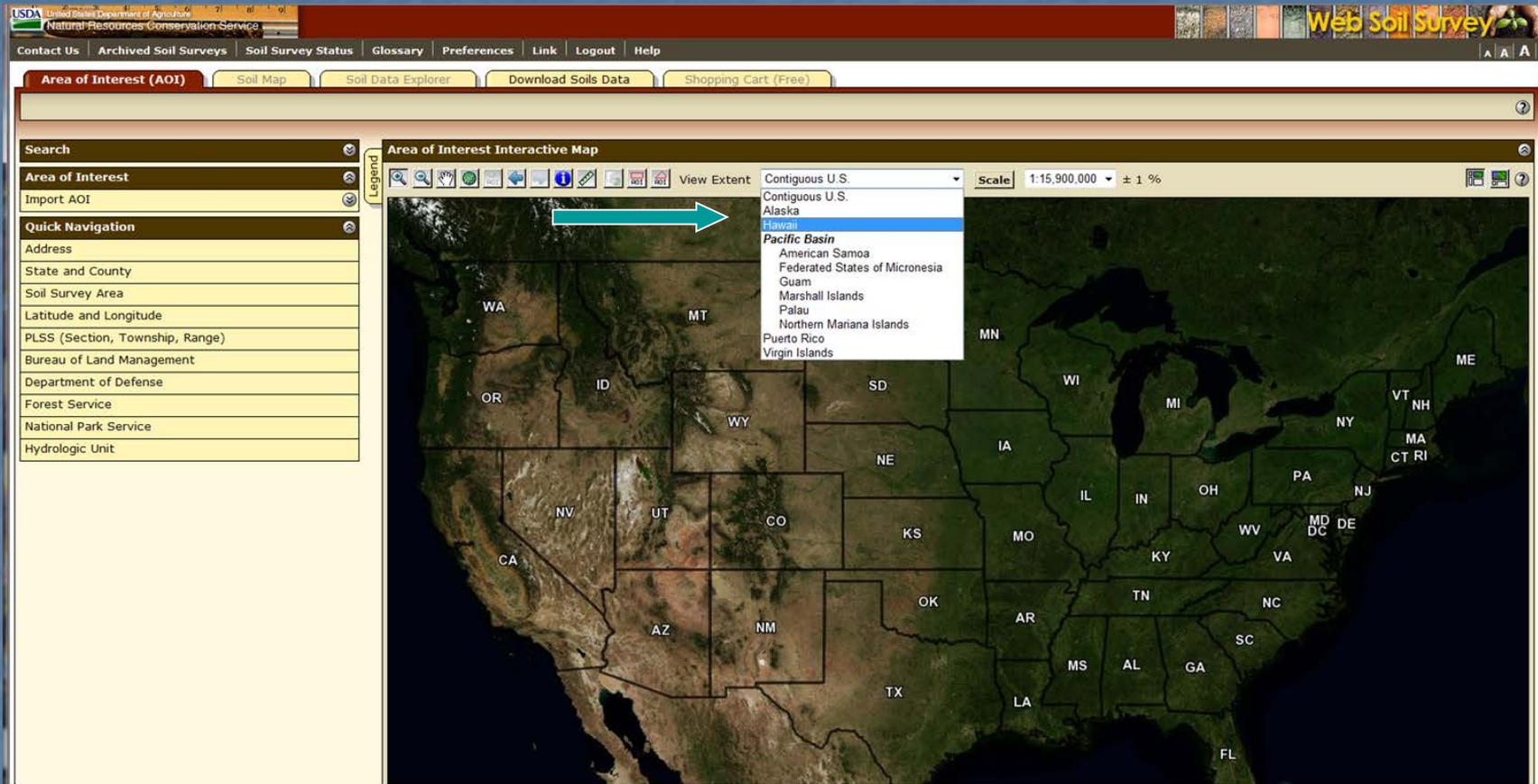
- Search results are displayed with links to parts of Web Soil Survey where the key word(s) can be found.
- Click on a link to go to the relevant section.

The Interactive AOI Map

The screenshot shows the USDA Web Soil Survey interface. At the top, there is a navigation bar with links for 'Contact Us', 'Subscribe', 'Archive', 'Soil Survey Status', 'Glossary', 'Preferences', 'Link', 'Logout', and 'Help'. Below this is a secondary navigation bar with tabs for 'Area of Interest (AOI)', 'Soil Map', 'Data Explorer', 'Download Soils Data', and 'Shopping Cart (Free)'. The main content area is titled 'Area of Interest Interactive Map' and features a search sidebar on the left with sections for 'Search', 'Area of Interest', and 'Quick Navigation'. The map itself shows the United States with state boundaries and labels. A teal arrow points to the 'Area of Interest (AOI)' tab in the top navigation bar.

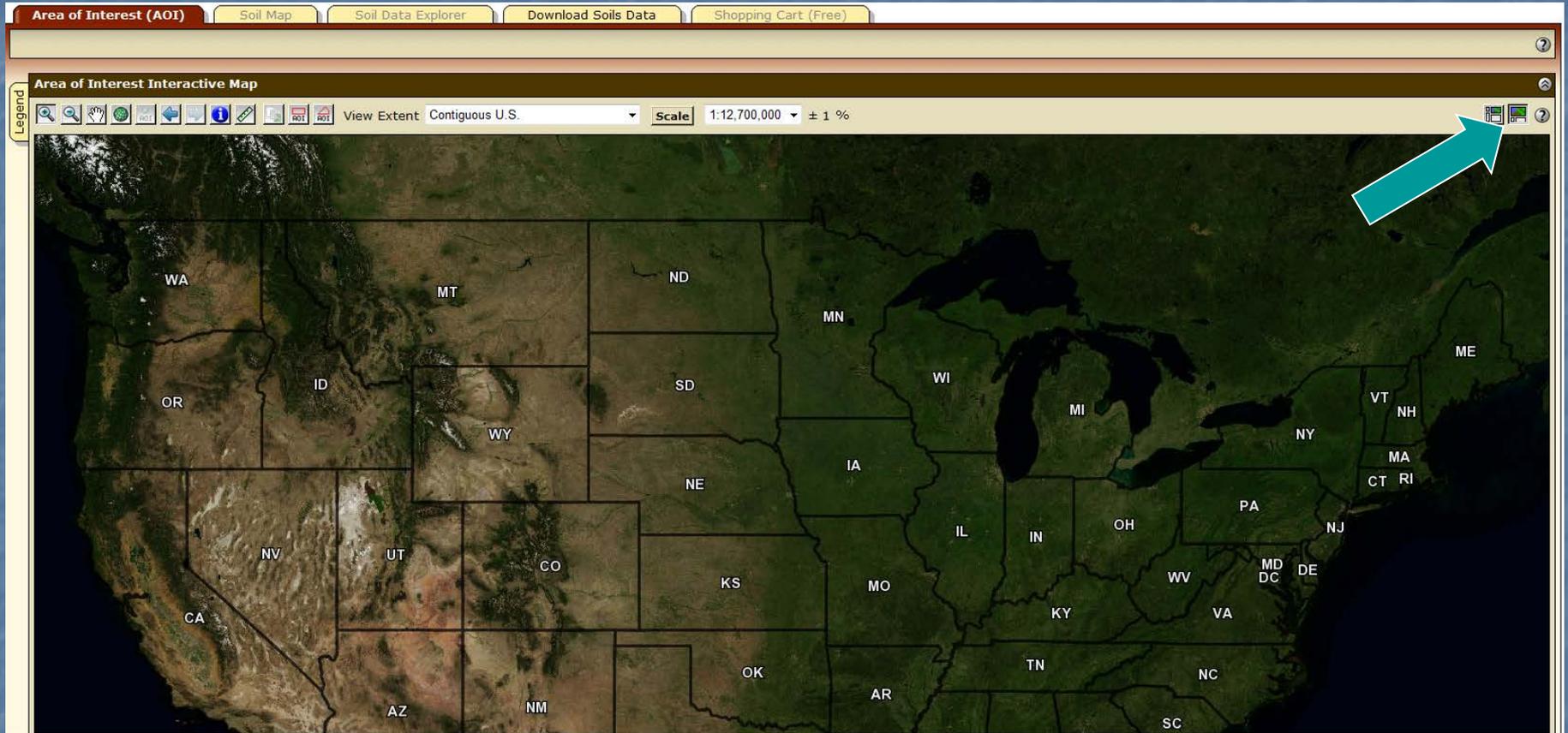
- Several tools are available to zoom to your area of interest on the interactive map.

View Other Geographic Areas

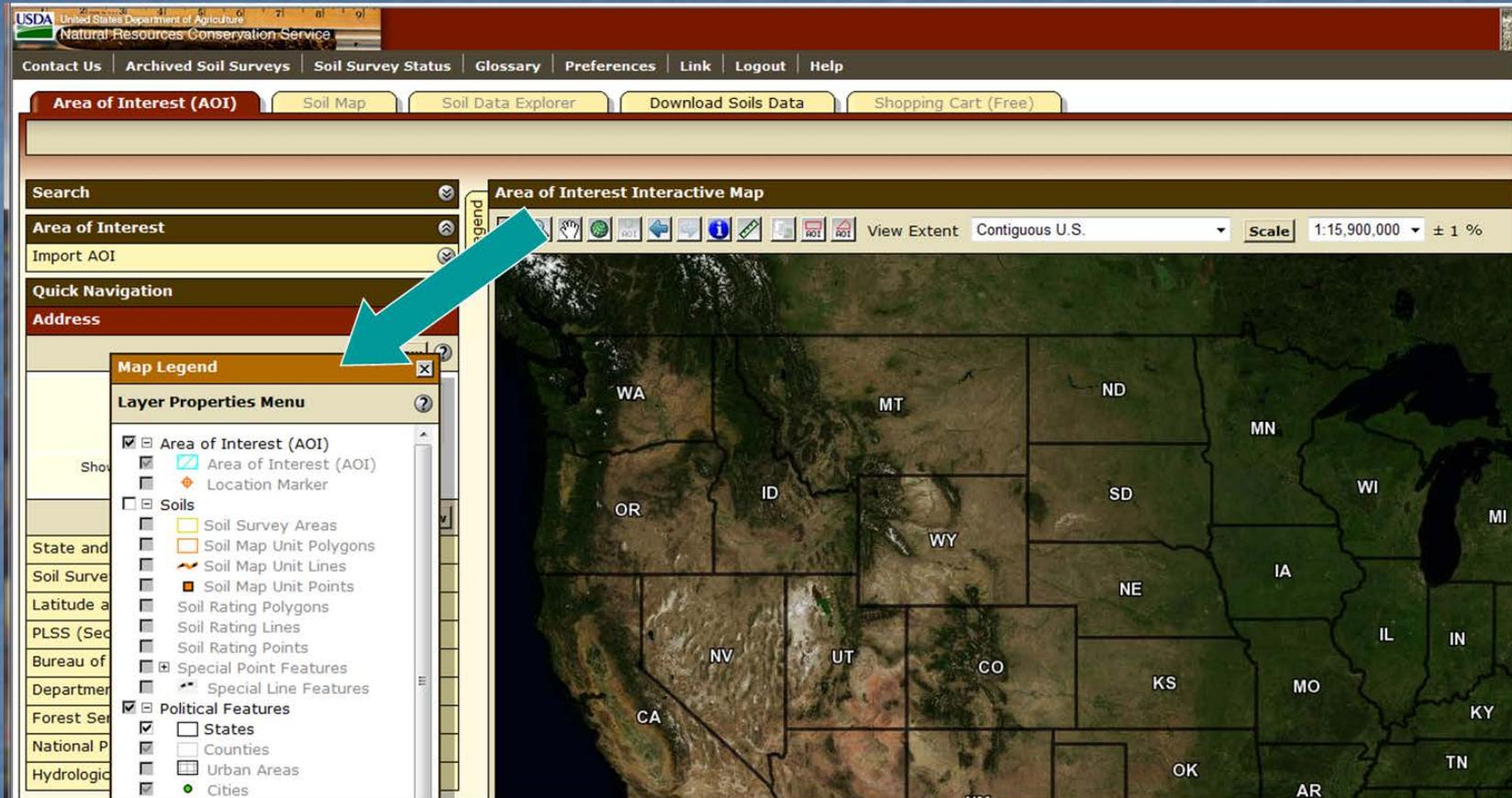


- You can view other geographic areas by selecting from the "View Extent" drop-down menu.

View Map at Full Screen Width

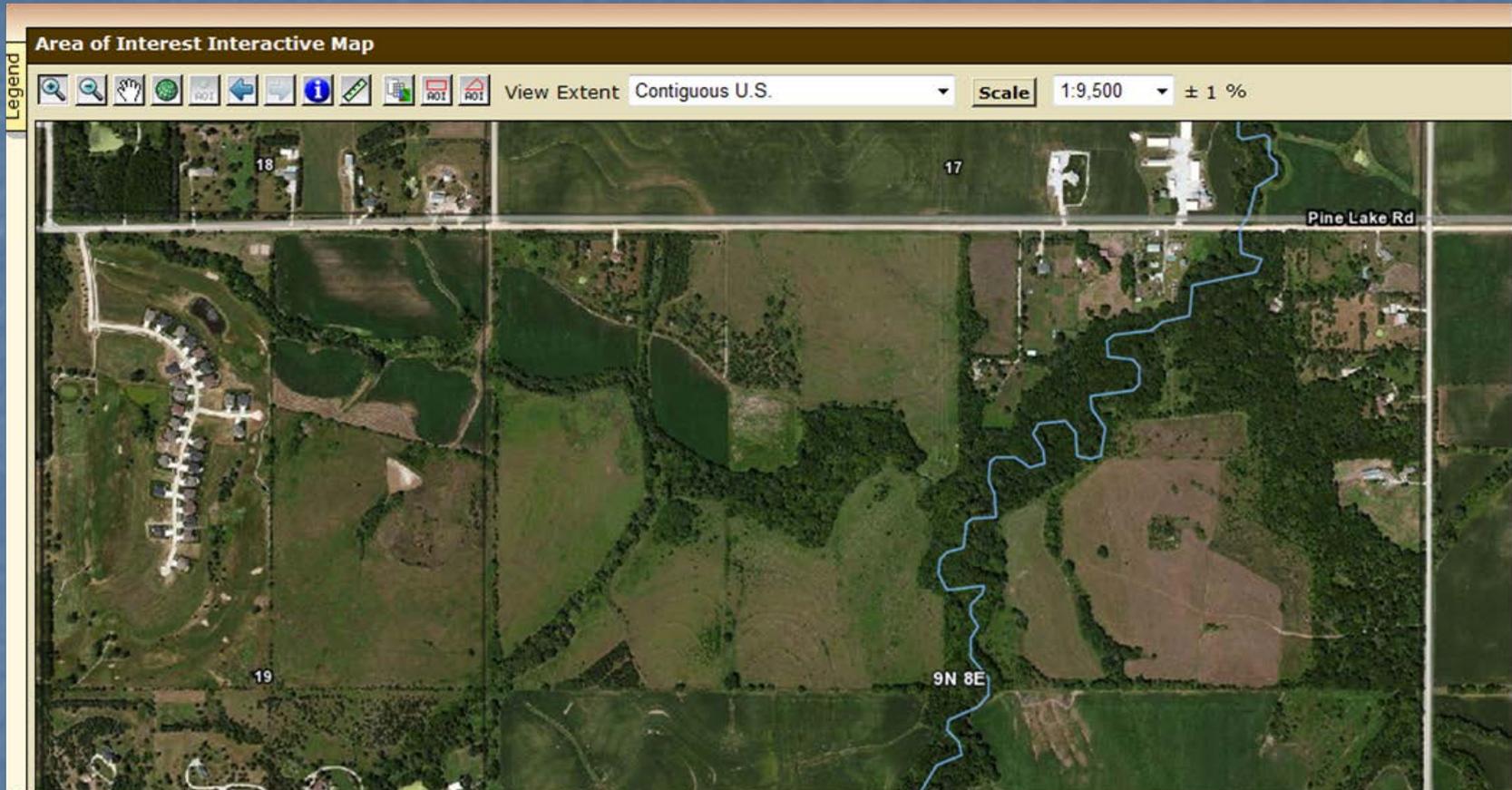


Floating Map Legend



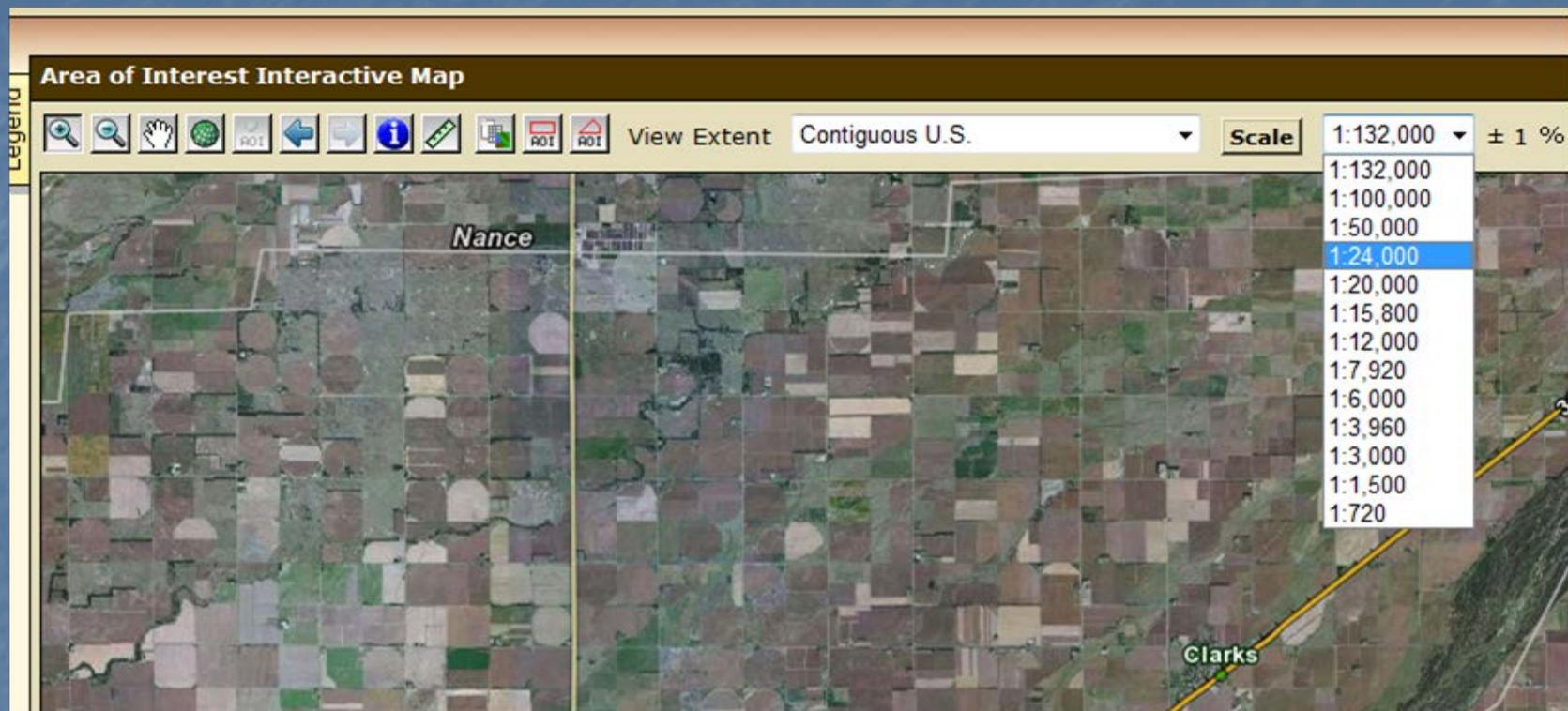
- You can view the map legend, which has a floating window. Click the "Legend" tab to drag the map legend.

Zoom Tools



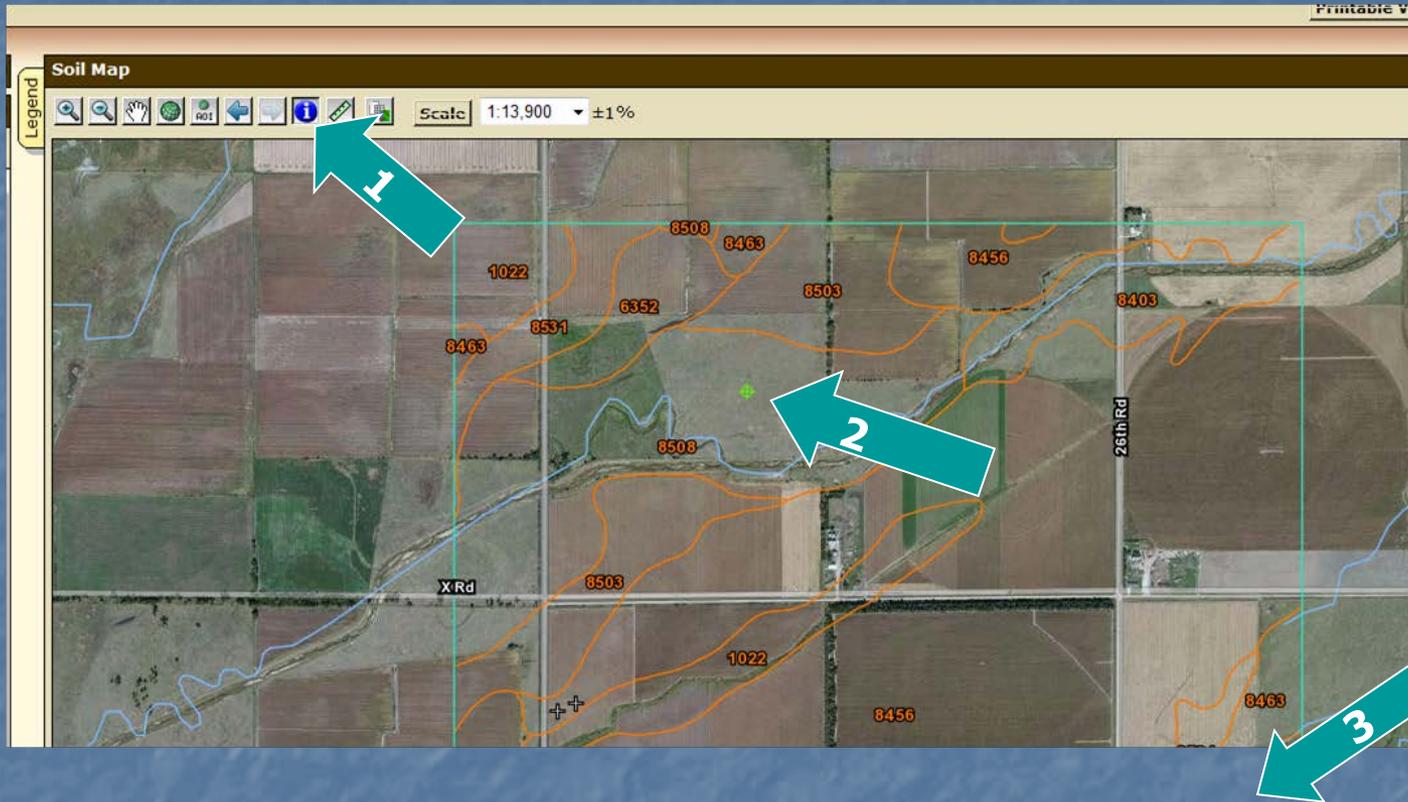
- The map has zoom-in and zoom-out tools. Click on the symbol of the magnifying glass with a plus sign, then click and drag on the map to zoom in to a selected rectangle.

Onscreen Map Scale



- You can view or specify the onscreen map scale.
- First, calibrate your monitor by clicking the "Scale" button and following the directions.
- The current scale of the map is then displayed.
- Use the drop-down menu to change to a specific map scale.

Identify Tool



- The identify tool provides information about visible data layers.
- 1) Click the identify tool and then a point on the map.
- 2) A marker identifies the point you clicked on.
- 3) The attribute values for information on the layers are listed in a table below the map.

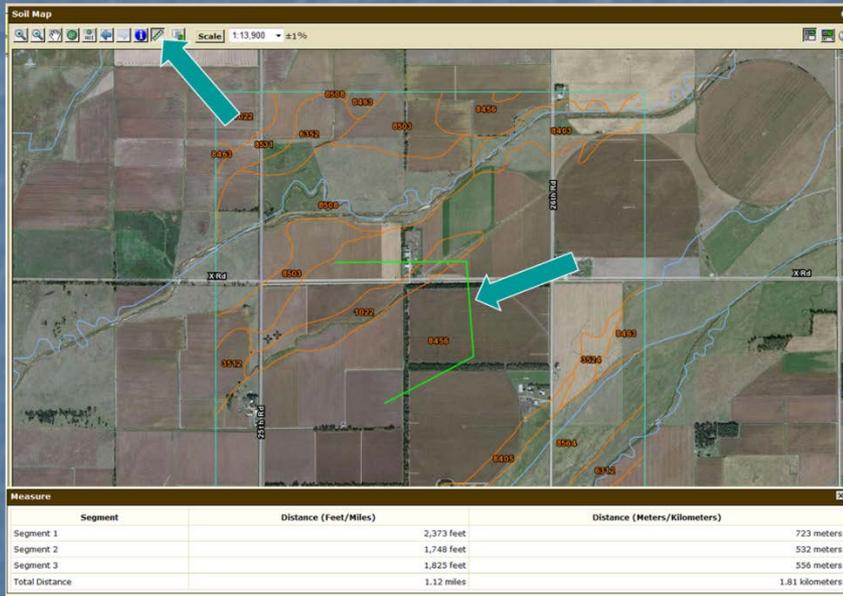
Identify Tool—cont.

| Identify | | |
|------------------------|--------------------------|--|
| Layer | Attribute Name | Attribute Value |
| Location | Latitude, Longitude | 41.26916°, -97.82226° |
| Area of Interest (AOI) | Area (acres) | 1,384 |
| Soil Map Unit Polygons | Map Unit Name | Lex variant loam, occasionally flooded |
| | Map Unit Symbol | 8508 |
| | Map Unit Key | 1709662 |
| | Soil Survey Area Symbol | NE121 |
| | National Map Unit Symbol | 1vd1d |
| Aerial Photography | Date(s) Photographed | Aug 11, 2010—Sep 30, 2010 |

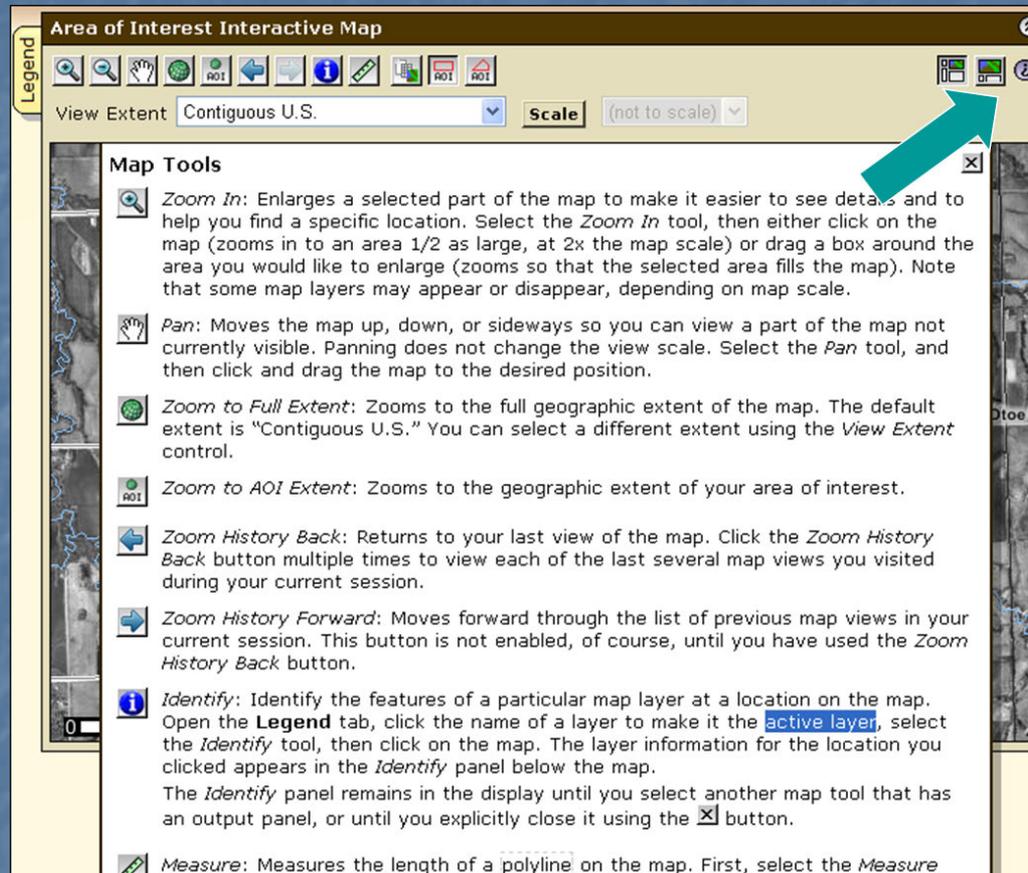
- The "Identify" table provides information about the selected data layers at the point identified. The table appears below the interactive map after a point is selected with the identify tool.

Linear Measuring Tool

- Click the ruler button.
- Click on the map to begin and end linear segments.
- Segment length and cumulative length are displayed in metric and English units in the table.



Help



- Additional help with the interactive map is available by clicking on the "?" icon.

Part II. Soil Data for an Area of Interest

- a. Define an Area of Interest (AOI)
 - 1. AOI Features
 - 2. Navigate to the area
 - 3. Define a specific area
- b. View Soil Map
- c. Explore Additional Soil Information
- d. Shopping Cart for Selected Information

IIa. Define an Area of Interest

The Web Soil Survey is backed by a database that contains soil information for the entire country. You can use the interactive map to select the area for which you want information.

- a. Define an Area of Interest (AOI)
 1. AOI Features
 2. Navigate to the area
 3. Define a specific area

II(a1). Area of Interest Features

- You can navigate to the area where you wish to specify an area of interest using basic map navigation data layers:
 - Transportation,
 - Aerial photography,
 - Hydrography, and
 - Political features.

Area of Interest Features—cont.

- You can navigate using selection criteria:
 - Street address,
 - State and county,
 - Soil survey area,
 - Latitude and longitude,
 - PLSS (township, range, and section),
 - Federal land boundaries,
 - Hydrologic unit, and
 - Coordinates in a URL.

Area of Interest Features—cont.

- You can use the zoom in/out tools.
- You can define an AOI by:
 - Drawing a polygon on a map
 - Using the rectangle tool, or
 - Using the multi-sided polygon tool;
 - Selecting a soil survey area;
 - Importing an AOI boundary file; or
 - Embedding bounding coordinates in a URL.
- You can clear a previously selected AOI.

Area of Interest Features—cont.

- You can determine what types of data are available for a defined AOI:
 - Tabular soil data and/or
 - Spatial soil data (maps).
- You can name your AOI.
- You can save your AOI for later use by exporting the boundary file to a GIS or by saving a bookmark to it in your browser.
- You can choose to use either standard or national map unit symbols.

II(a2). Navigate to the Area

The screenshot displays the USDA Web Soil Survey interface. At the top, there is a navigation bar with links for 'Contact Us', 'Archived Soil Surveys', 'Soil Survey Status', 'Glossary', 'Preferences', 'Link', 'Logout', and 'Help'. Below this is a secondary navigation bar with 'Area of Interest (AOI)', 'Soil Map', 'Soil Data Explorer', 'Download Soil Data', and 'Shopping Cart'. The main content area is divided into a left sidebar and a main map area. The sidebar contains a 'Search' section, an 'Area of Interest' section with an 'Import AOI' button, and a 'Quick Navigation' section with a list of search criteria: Address, State and County, Soil Survey Area, Latitude and Longitude, PLSS (Section, Township, Range), Bureau of Land Management, Department of Defense, Forest Service, National Park Service, and Hydrologic Unit. The main map area is titled 'Area of Interest Interactive Map' and features a map of the contiguous United States with state boundaries and abbreviations. A toolbar above the map includes various navigation and selection tools. Three teal arrows point to specific features: 'Navigate' points to the 'Quick Navigation' list, 'Zoom' points to the zoom tools in the toolbar, and 'Select' points to the polygon selection tool in the toolbar.

- Use Quick Navigation and the zoom tool to go to the area. Use a polygon tool to select your specific AOI.

Navigate by Street Address

The screenshot displays the USDA Natural Resources Conservation Service website interface. At the top, the USDA logo and navigation links are visible. Below the header, there are tabs for 'Area of Interest (AOI)', 'Soil Map', 'Soil Data Explorer', 'Download Soils Data', and 'Shopping Cart (Free)'. The main content area is divided into a left sidebar and a central map area.

Left Sidebar:

- Search**
- Area of Interest**
- Import AOI
- Quick Navigation**
- Address**
- Address: 11400 pine lake rd, 68526
- Show location marker
- State and County
- Soil Survey Area
- Latitude and Longitude
- PLSS (Section, Township, Range)
- Bureau of Land Management
- Department of Defense
- Forest Service
- National Park Service
- Hydrologic Unit

Central Map Area:

- Area of Interest Interactive Map**
- Map controls: View Extent (Contiguous U.S.), Scale (1:5,040 ± 1%)
- Map labels: Aspen Canyon Rd, Rocky Ridge Rd, S1121th St, Pine Lake Rd
- A teal arrow points to the map area.

View by Street Address

USDA United States Department of Agriculture
Natural Resources Conservation Service

Contact Us | Archived Soil Surveys | Soil Survey Status | Glossary | Preferences | Link | Logout | Help

Area of Interest (AOI) | Soil Map | Soil Data Explorer | Download Soils Data | Shopping Cart (Free)

Search

Area of Interest

Import AOI

Quick Navigation

Address

View ?

Address: 11400 pine lake rd, 68526

Show location marker

View

State and County

Soil Survey Area

Latitude and Longitude

PLSS (Section, Township, Range)

Bureau of Land Management

Department of Defense

Forest Service

National Park Service

Hydrologic Unit

Area of Interest Interactive Map

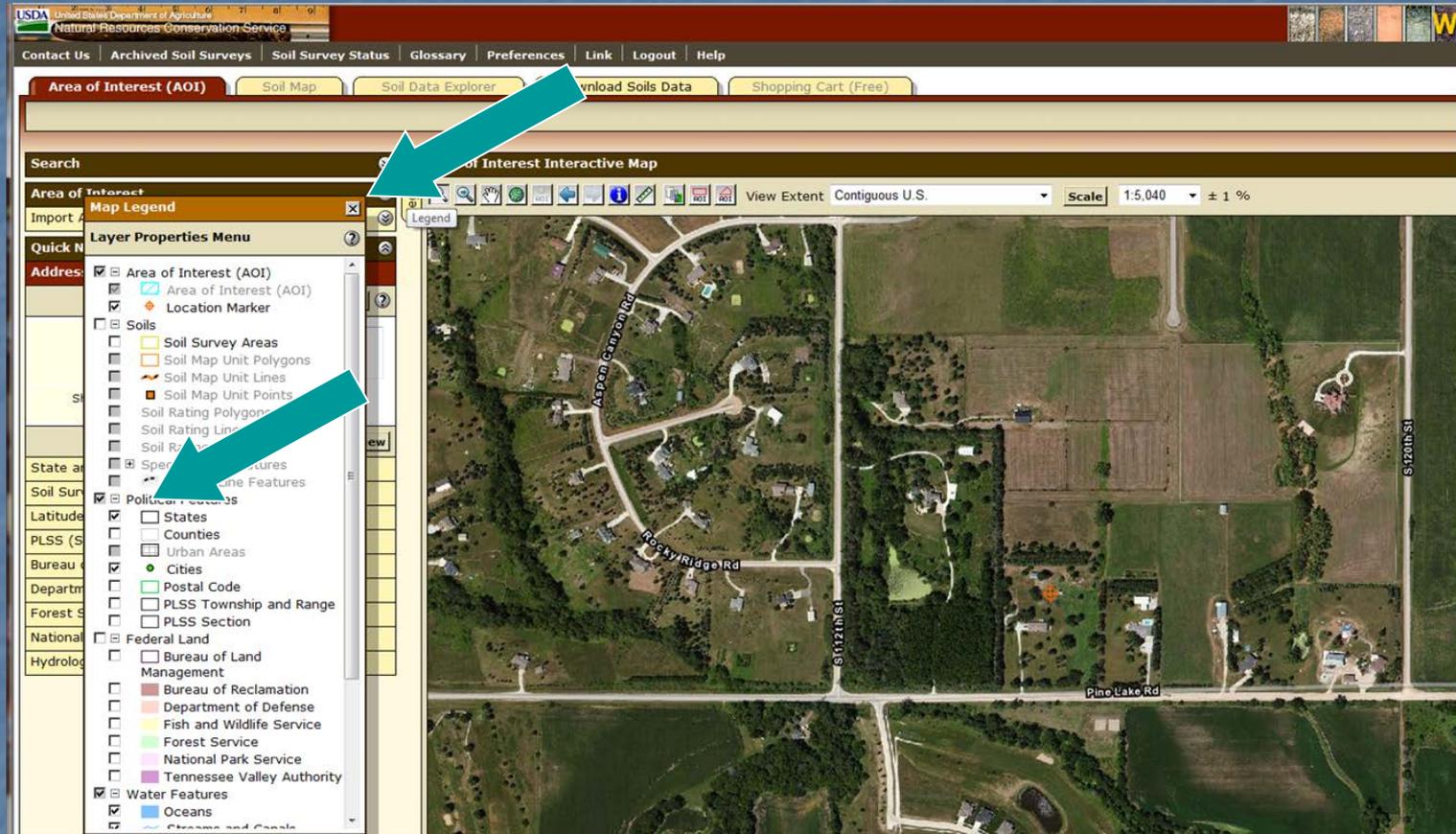
Legend

View Extent: Contiguous U.S. | Scale: 1:5,040 ± 1 %

Map labels: Aspen Canyon Rd, Rocky Ridge Rd, S 112th St, Pine Lake Rd

Location marker

Manage Display of Data Layers



- Click on the "Legend" tab.
- Turn layers on or off by checking or unchecking boxes on the legend.

Navigate by County

The screenshot displays the USDA Natural Resources Conservation Service website interface. At the top, the USDA logo and 'United States Department of Agriculture' and 'Natural Resources Conservation Service' are visible. A navigation bar includes links for 'Contact Us', 'Archived Soil Surveys', 'Soil Survey Status', 'Glossary', 'Preferences', 'Link', 'Logout', and 'Help'. Below this, a secondary navigation bar features buttons for 'Area of Interest (AOI)', 'Soil Map', 'Soil Data Explorer', 'Download Soils Data', and 'Shopping Cart (Free)'. The main content area is divided into a left sidebar and a right map area. The sidebar contains a 'Search' section, an 'Area of Interest' section with an 'Import AOI' button, a 'Quick Navigation' section with an 'Address' input field, and a 'State and County' section. The 'State and County' section has a 'View' button, a 'State' dropdown menu set to 'Nebraska', and a 'County (optional)' dropdown menu set to 'Lancaster'. Below this are several 'View' buttons for different categories: 'Soil Survey Area', 'Latitude and Longitude', 'PLSS (Section, Township, Range)', 'Bureau of Land Management', 'Department of Defense', 'Forest Service', 'National Park Service', and 'Hydrologic Unit'. The right side of the interface is titled 'Area of Interest Interactive Map'. It features a toolbar with various map navigation tools (pan, zoom, home, etc.), a 'View Extent' dropdown menu set to 'Contiguous U.S.', and a 'Scale' dropdown menu set to '1:5,000'. The map itself is an aerial view showing a residential area with roads labeled 'Aspen Canyon Rd', 'Rocky Ridge Rd', and 'S 112th St'. A red arrow points from the 'County (optional)' dropdown menu to the map area.

Navigate by Soil Survey Area

USDA United States Department of Agriculture
Natural Resources Conservation Service

Contact Us | Archived Soil Surveys | Soil Survey Status | Glossary | Preferences | Link | Logout | Help

Area of Interest (AOI) | Soil Map | Soil Data Explorer | Download Soils Data | Shopping Cart (Free)

Search

Area of Interest

Import AOI

Quick Navigation

Address

State and County

Soil Survey Area

Set AOI View ?

State: Alabama

County (optional):

Soil Survey Area

| Name | Area Symbol | Data Availability | Version |
|---------------------------|-------------|-------------------------------|--|
| • Autauga County, Alabama | AL001 | Tabular and Spatial, complete | Survey Area: Version 6, Nov 2, 2009 Tabular: Version 5, Aug 15, 2006 Spatial: Version 2, Mar 21, 2006 |
| • Baldwin County, Alabama | AL003 | Tabular and Spatial, complete | Survey Area: Version 3, Jul 18, 2006 Tabular: Version 3, Jul 18, 2006 Spatial: Version 1, Jun 23, 2004 |
| • Barbour County, Alabama | AL005 | Tabular and Spatial, | Survey Area: Version 7, |

Show Soil Survey Areas Layer in Map

Area of Interest Interactive Map

Legend

View Extent: Contiguous U.S. Scale

Map showing Aspen Canyon Rd, Rocky Ridge Rd, and St 121st St.

Navigate by Latitude and Longitude

USDA United States Department of Agriculture
Natural Resources Conservation Service

Contact Us Archived Soil Surveys Soil Survey Status Glossary Preferences Link Logout Help

Area of Interest (AOI) Soil Map Soil Data Explorer Download Soils Data Shopping Cart (Free)

Search

Area of Interest

Import AOI

Quick Navigation

Address

State and County

Soil Survey Area

Latitude and Longitude

View ?

Latitude, Longitude 40.5678 -100.2569

Display location marker

View

PLSS (Section, Township, Range)

Bureau of Land Management

Department of Defense

Forest Service

National Park Service

Hydrologic Unit

Area of Interest Interactive Map

View Extent Contiguous U.S. Scale 1:7,420 ± 1 %

For a point between 0 and 180 degrees west longitude, enter a negative longitude number.

Location marker

- See next slide for allowable formats.

Allowable Coordinates for Latitude and Longitude

- All coordinates are assumed to be specified with reference to the WGS 84 spatial reference. Latitude is specified first, except in the Well-Known Text (WKT) format.
- Decimal Degrees
 - 46.8075,-100.78306
 - 46.80750 N 100.78306 W
 - 46.8075~-100.78306
 - 46.8075° -100.78306°
- Degrees/Minutes/Decimal Seconds
 - 46° 48' 27" N, 100° 46' 59.016" W
 - 46d 48' 27" N 100d 46' 59.016" W
 - 46°48'27"N,100°46'59.016"W
 - 46:48:27N 100:46:59.016W
- Degrees/Decimal Minutes
 - 46° 48.45', -100° 46.9836'
- GPS
 - N 46 48.45 W 100 46.9836
- GNIS
 - 464827N 1004659W
- WKT
 - (-100.78305 46.80749)
 - (-100.78305%2046.80749)

Navigate by Public Land Survey System (Section, Township, and Range)

The screenshot displays the USDA Natural Resources Conservation Service website interface. At the top, the USDA logo and navigation links are visible. Below the header, there are tabs for 'Area of Interest (AOI)', 'Soil Map', 'Soil Data Explorer', 'Download Soils Data', and 'Shopping Cart (Free)'. The main content area is divided into a left sidebar and a right main panel.

Left Sidebar:

- Search**
- Area of Interest**
 - Import AOI
- Quick Navigation**
 - Address
 - State and County
 - Soil Survey Area
 - Latitude and Longitude
- PLSS (Section, Township, Range)**
 - View ?
 - State: Nebraska
 - Principal Meridian: Sixth Principal Meridian
 - Section: 20
 - Township: 9 N
 - Range: 8 E
 - Duplicate Township: [Dropdown]
 - Show PLSS Township and Range Layer in Map:
 - Show PLSS Section Layer in Map:
 - View

Right Main Panel:

- Area of Interest Interactive Map**
- Legend
- Map Tools: [Zoom In], [Zoom Out], [Home], [Full Screen], [Print], [Layers], [AOI], [AOI]
- View Extent: Contiguous U.S.
- Scale: 1:9,500
- Map Content: Aerial imagery showing a grid of sections. Section 20 is highlighted in green. Township 9 N and Range 8 E are labeled on the map.

A teal arrow points from the 'Section' input field (value 20) in the PLSS navigation panel to the corresponding section on the map.

Navigate by Federal Land Management Agencies

The screenshot displays the USDA Natural Resources Conservation Service website interface. At the top, the USDA logo and "United States Department of Agriculture Natural Resources Conservation Service" are visible. Below the logo is a navigation bar with links: Contact Us, Subscribe, Archived Soil Surveys, Soil Survey Status, Glossary, Preferences, Link, Logout, and Help. A secondary navigation bar contains buttons for "Area of Interest (AOI)", "Soil Map", "Soil Data Explorer", "Download Soils Data", and "Shopping Cart (Free)".

The main content area is divided into two sections. On the left is a "Search" sidebar with a "Legend" label. The sidebar includes sections for "Area of Interest" (with "Import AOI" below it) and "Quick Navigation". The "Quick Navigation" section lists various search criteria: Address, State and County, Soil Survey Area, Latitude and Longitude, PLSS (Section, Township, Range), Bureau of Land Management, Department of Defense, Forest Service, National Park Service, and Hydrologic Unit. A teal arrow points to the "Forest Service" option.

On the right is the "Area of Interest Interactive Map". It features a toolbar with icons for search, zoom, pan, and other map functions. Below the toolbar is a map of the western United States showing state boundaries and labels: WA, OR, NV, ID, UT, CO, MT, WY, ND, SD, and NE. The map is titled "Area of Interest Interactive Map" and includes a "View Extent" dropdown menu currently set to "Contiguous U.S."

Example: Bureau of Land Management

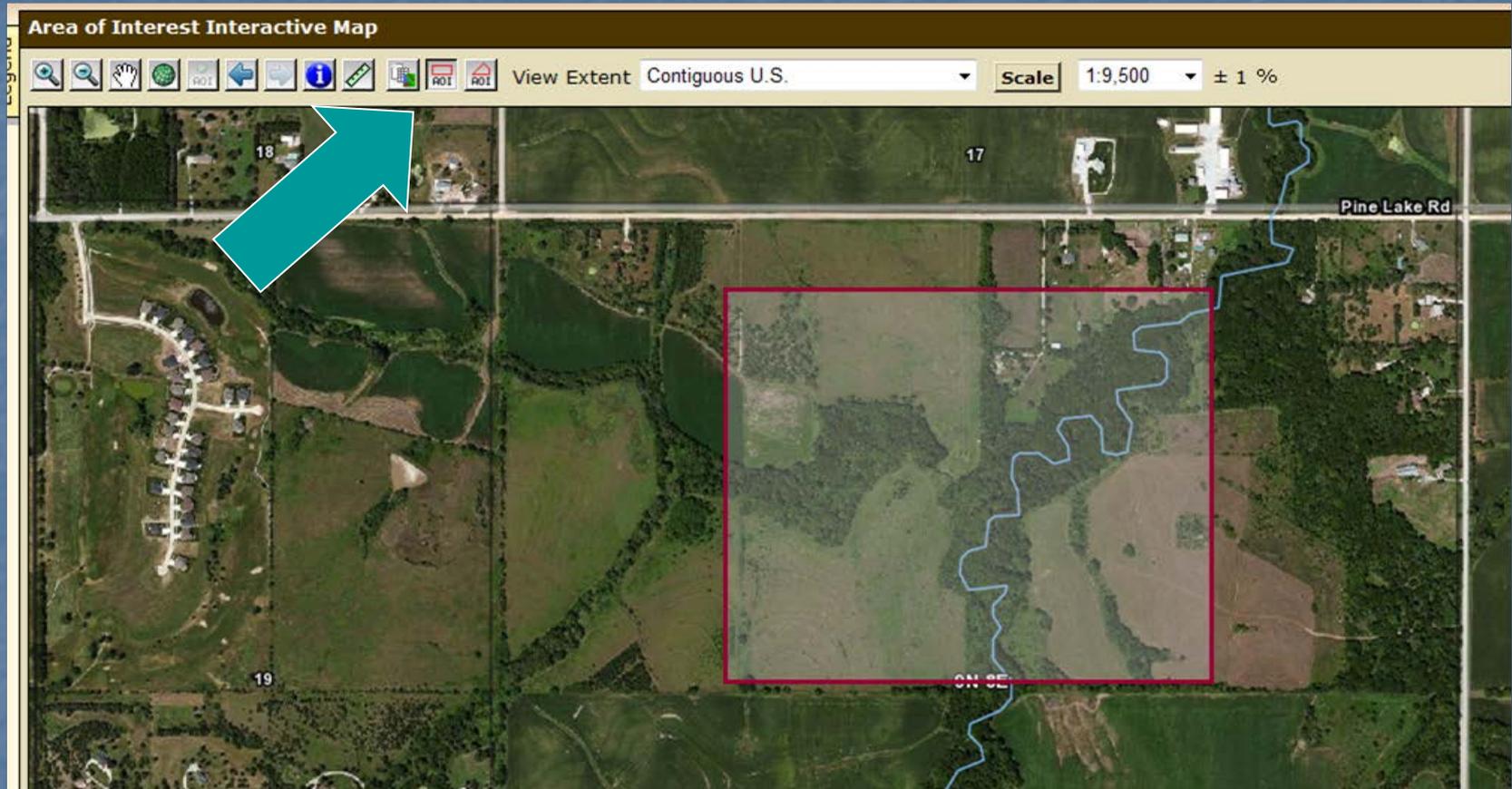
The screenshot shows a web interface for the Bureau of Land Management. At the top, there is a "Quick Navigation" section with fields for Address, State and County, Soil Survey Area, Latitude and Longitude, and PLSS (Section, Township, Range). Below this is a "Bureau of Land Management" section with a "View" button. The "State Office" dropdown is set to "Colorado". The "Field Office" dropdown is open, showing a list of field offices: Columbine (highlighted), Del Norte, Dolores, Glenwood Springs, Grand Junction, Gunnison, Kremmling, LA Jara, Little Snake, Pagosa Springs, Royal Gorge, Saguache, Uncompahgre, and White River. A "View" button is visible to the right of the field office list. Two teal arrows point to the "View" button and the "Field Office" dropdown menu.

- Select a State office.
- Select a field office.
- Click the "View" button.
- The outline of the selected area is then displayed on the map.
- A similar process is available for the other Federal agencies listed.

II(a3). Define the Specific AOI

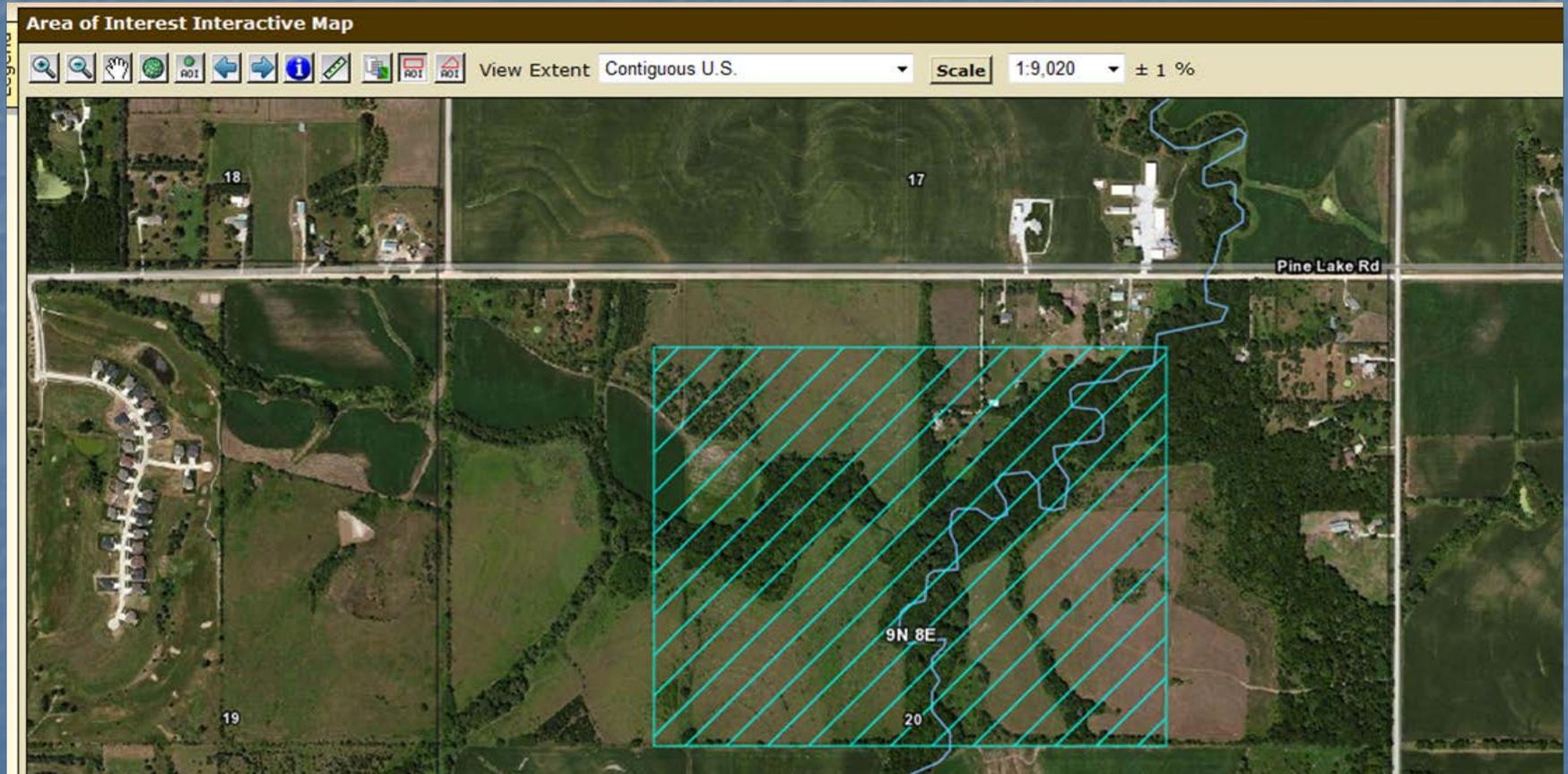
- Remember, you must specifically set the AOI before you can view soil maps or data.
- You can define an AOI by:
 - Drawing a polygon on a map
 - Using the rectangle tool, or
 - Using the multi-sided polygon tool;
 - Selecting a soil survey area;
 - Importing an AOI boundary file;
 - Embedding bounding coordinates in a URL; or
 - Using a previously bookmarked link.

Rectangle Tool

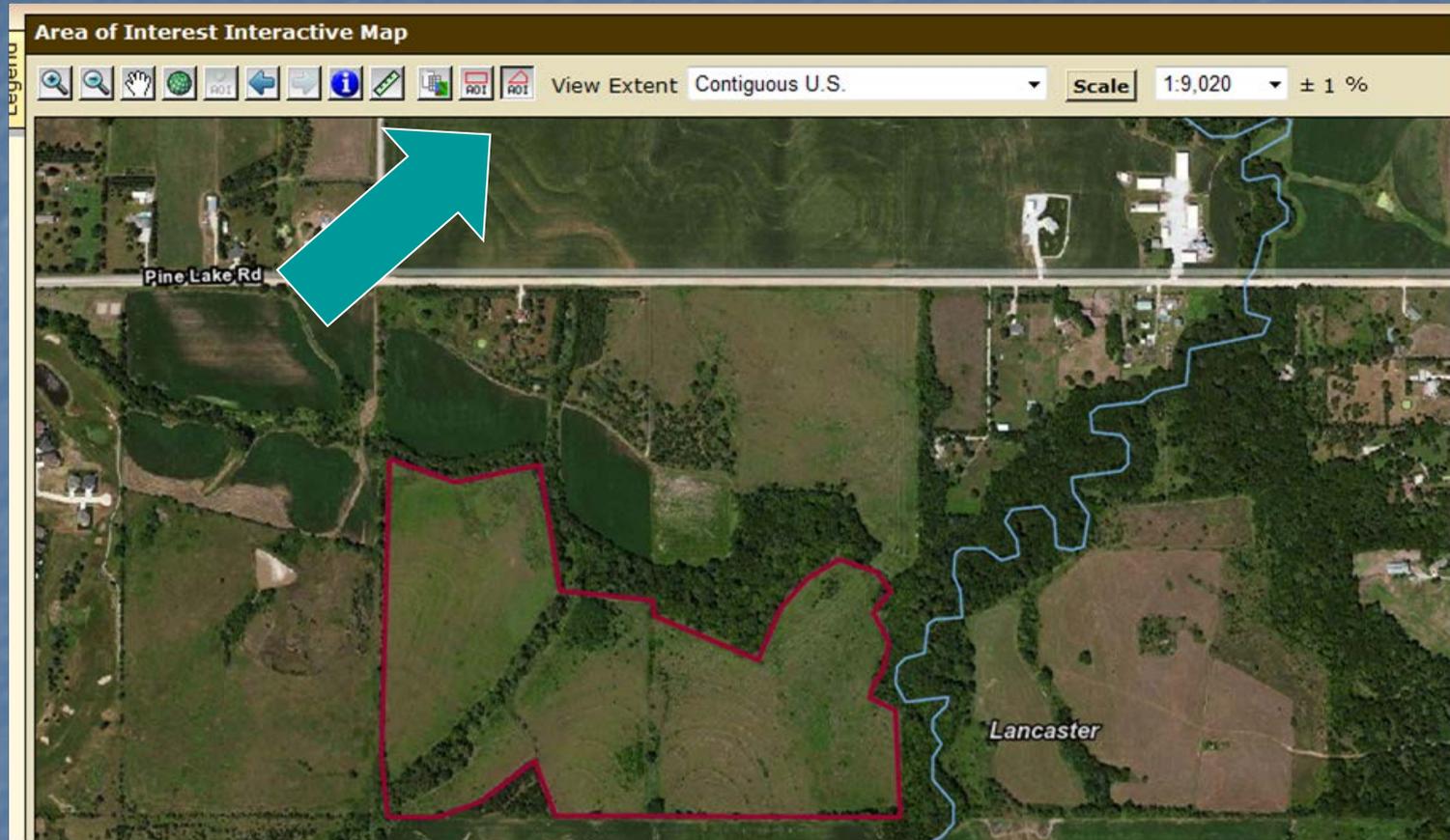


- You can define an AOI by drawing a polygon on a map using the rectangle tool.

View Selected AOI

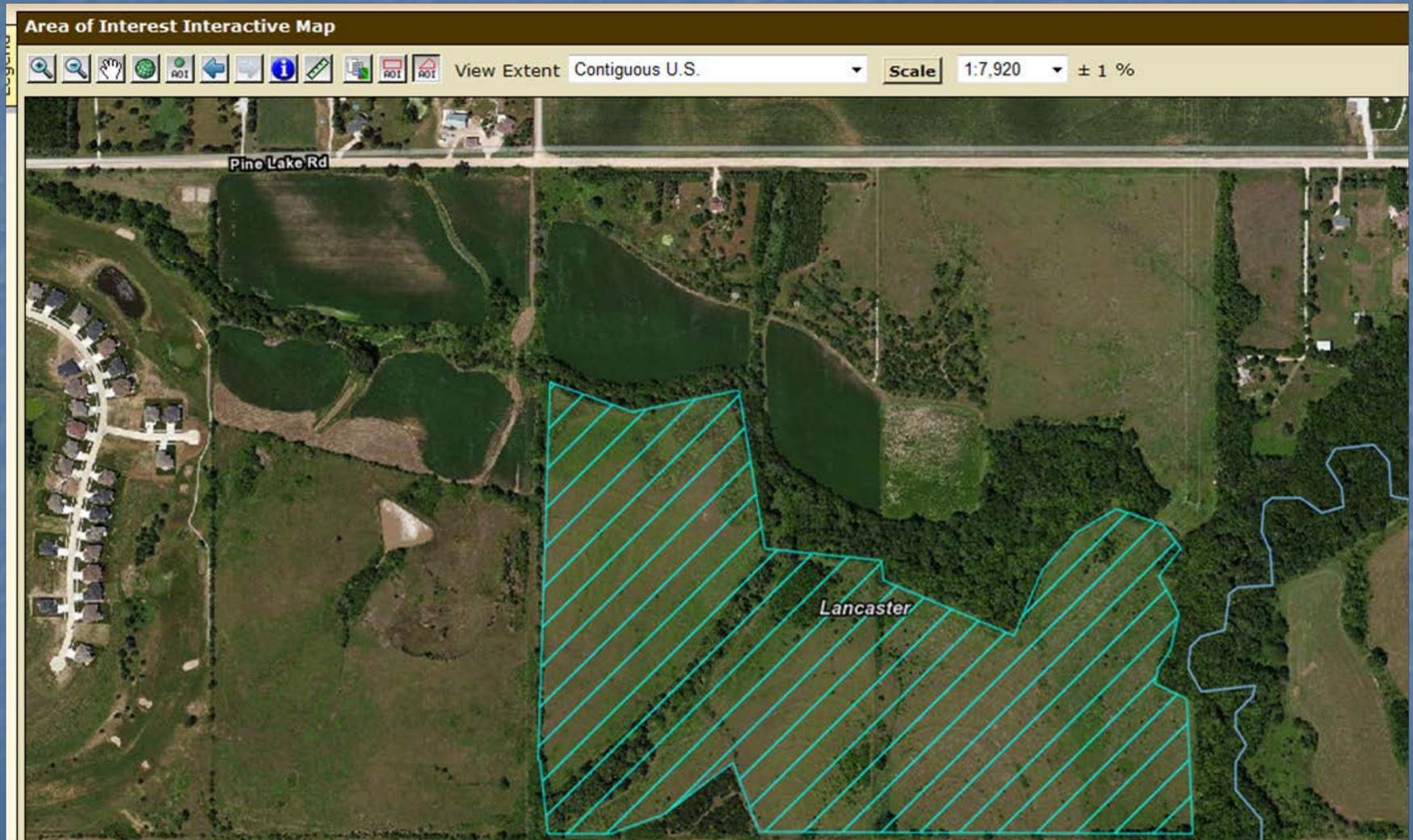


Multi-sided Polygon Tool



- You can define an AOI by drawing a polygon on a map using the multi-sided polygon tool.

View Selected AOI



Import Boundary

The screenshot displays the USDA Natural Resources Conservation Service website interface. At the top, the USDA logo and 'United States Department of Agriculture' are visible, along with the 'Natural Resources Conservation Service' name. A navigation bar includes links for 'Contact Us', 'Archived Soil Surveys', 'Soil Survey Status', 'Glossary', 'Preferences', 'Link', 'Logout', and 'Help'. Below this, a secondary navigation bar features 'Area of Interest (AOI)', 'Soil Map', 'Soil Data Explorer', 'Download Soils Data', and 'Shopping Cart (Free)'. The main content area is divided into two columns. The left column contains a 'Search' section, an 'Area of Interest' section with a teal arrow pointing to the 'Import AOI' option, and a 'Quick Navigation' section with various location-based filters. The right column features an 'Area of Interest Interactive Map' with a toolbar containing icons for search, zoom, pan, and other map functions, and a satellite-style map showing a rural area with a road labeled 'Pine Lake Rd'.

- You can define an AOI by importing a boundary that was previously created for a GIS.

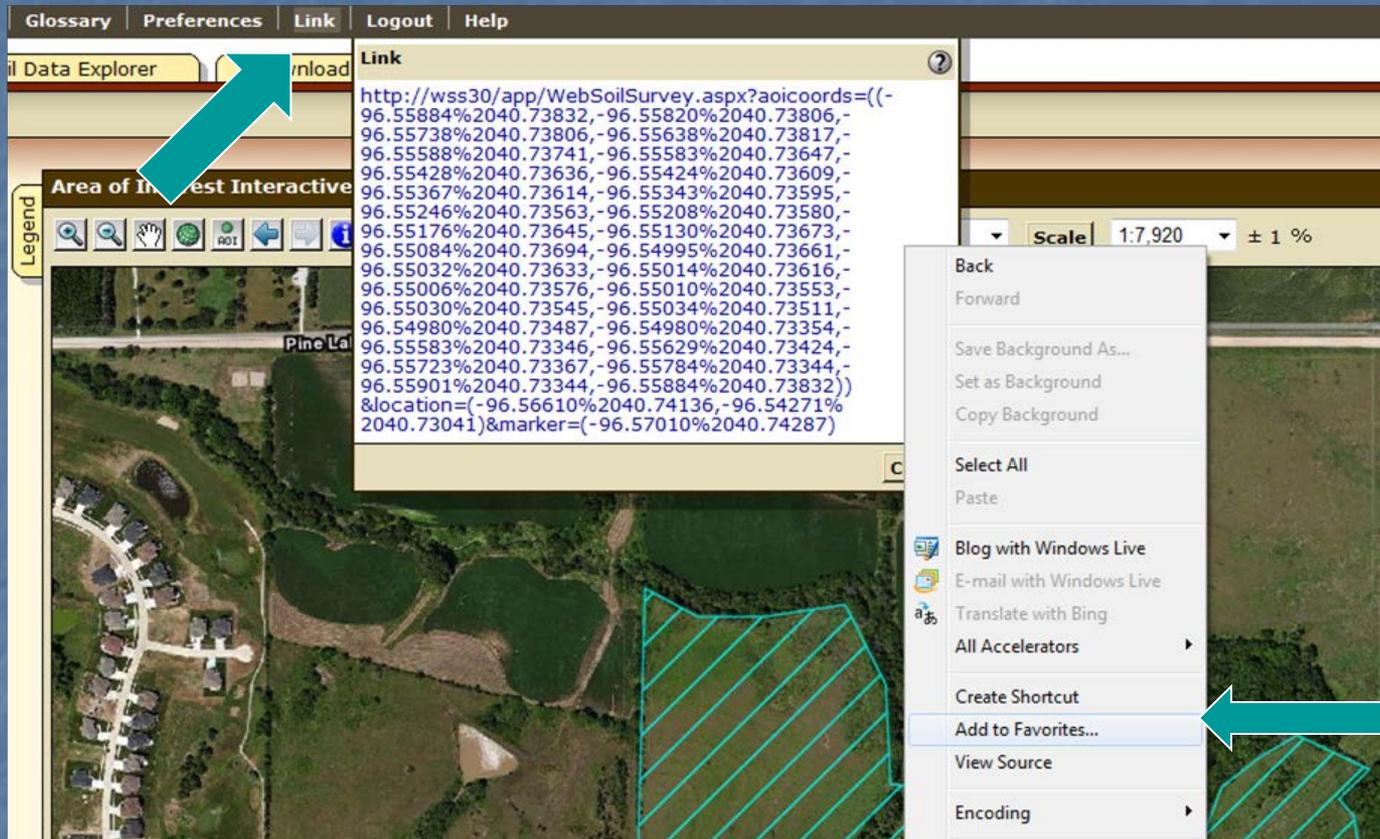
Import Boundary—cont.

The screenshot shows the 'Area of Interest (AOI)' interface. The 'Import AOI' section is active, and the 'Create AOI from Shapefile' sub-section is selected. It features three rows of input fields for file types: '.shp file', '.shx file', and '.prj file'. Each row has a 'Browse...' button to the right of the text input field. A 'Set AOI' button with a question mark icon is located at the bottom right of this section. Below this section, the 'Create AOI from Zipped Shapefile' section is partially visible.

The screenshot shows the 'Area of Interest (AOI)' interface with the 'Create AOI from Zipped Shapefile' sub-section selected. It features a single row of input fields for '.zip file' with a 'Browse...' button to its right. A 'Set AOI' button with a question mark icon is located at the bottom right of this section. Below this section, the 'Quick Navigation' section is partially visible.

- Import the required .shp, .shx, and .prj files from your local computer.
- The files can be imported as zipped or unzipped files.
- Use the "Browse" buttons to find the files.
- After files have been identified, click "Set AOI" button.

Saving the AOI as a Link



- After you have defined an AOI, you can save the URL as a browser link.
- Click the "Link" tab on the top navigation bar. A dialog box opens showing the URL of your WSS session with coordinates of the AOI boundary.
- Right click on the URL displayed and select "Add to Favorites." Rename as appropriate.

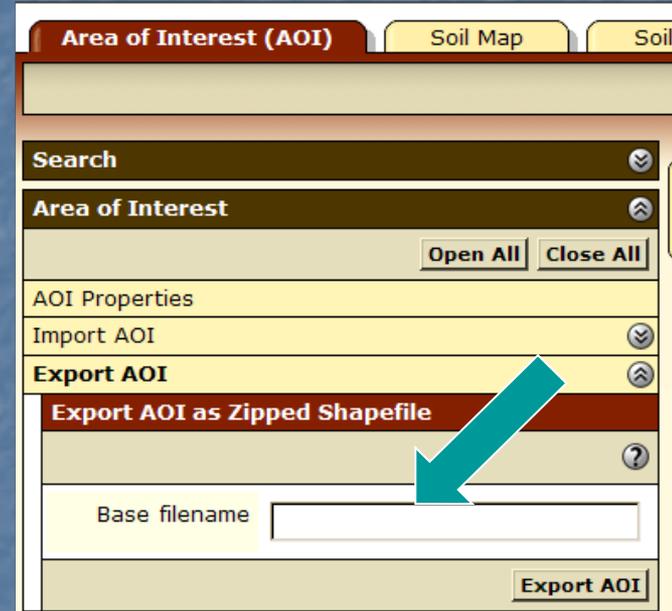
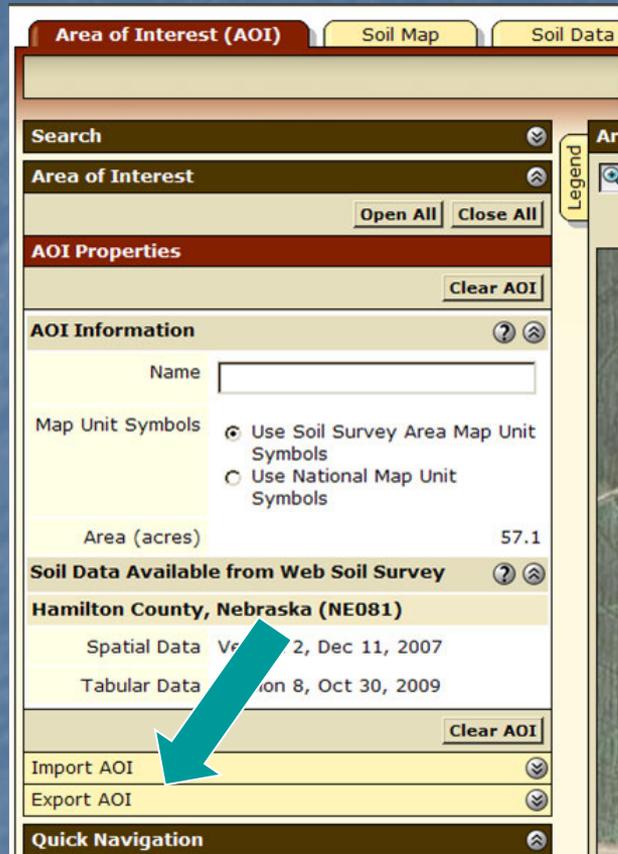
Use Bookmarked Link

- Find and select a bookmark that you saved from an earlier WSS session. See the previous slide.
- Web Soil Survey will open in your browser, and the previously defined AOI will be displayed.

Set AOI by URL

- The AOI can also be defined by embedding a set of coordinate points in a URL. See the following example.
 - [http://wss30/app/WebSoilSurvey.aspx?aoicoords=\(\(-96.97725%2041.28462,-96.97725%2041.29099,-96.96512%2041.29099,-96.96512%2041.28462,-96.97725%2041.28462\)\)](http://wss30/app/WebSoilSurvey.aspx?aoicoords=((-96.97725%2041.28462,-96.97725%2041.29099,-96.96512%2041.29099,-96.96512%2041.28462,-96.97725%2041.28462)))
- Each coordinate pair represents a vertex point along the AOI boundary.

Export AOI boundary



- Once an AOI has been established, you can export the AOI boundary as a shapefile.
- Click "Export AOI" option under the "AOI Properties" section.
- Assign a base filename. The file is saved to your local computer.
- The file can be imported into a future WSS session to return to this same AOI.

Explicitly Clear the AOI

The screenshot displays the USDA Natural Resources Conservation Service website interface. At the top, there is a navigation bar with links: Contact Us, Archived Soil Surveys, Soil Survey Status, Glossary, Preferences, Link, Logout, and Help. Below this is a secondary navigation bar with buttons: Area of Interest (AOI), Soil Map, Soil Data Explorer, Download Soils Data, and Shopping Cart (Free). The main content area is divided into several sections. On the left, there is a 'Search' section with an 'Area of Interest' dropdown and 'Open All' and 'Close All' buttons. Below this is the 'AOI Properties' section, which contains a 'Clear AOI' button. The 'AOI Information' section includes a 'Name' input field, 'Map Unit Symbols' options (Use Soil Survey Area Map Unit Symbols and Use National Map Unit Symbols), and 'Area (acres)' (69.2). The 'Soil Data Available from Web Soil Survey' section shows 'Lancaster County, Nebraska (NE109)' with 'Data Availability' (Tabular and Spatial, complete), 'Tabular Data' (Version 12, Oct 30, 2009), and 'Spatial Data' (Version 4, Dec 11, 2007). On the right, the 'Area of Interest Interactive Map' section shows a map of a rural area with a teal hatched polygon representing the current AOI. A teal arrow points from the 'Clear AOI' button in the 'AOI Properties' section to the map area.

- You can clear the current AOI.

IIb. View Soil Map

The screenshot displays the USDA Web Soil Survey interface. At the top, the USDA logo and navigation links are visible. The main navigation bar includes tabs for 'Area of Interest (AOI)', 'Soil Map', 'Soil Data Explorer', 'Download Soils Data', and 'Shopping Cart (Free)'. The 'Soil Map' tab is currently selected. On the left side, there is a search and AOI management panel. A red arrow points to the 'Soil Map' tab. Below the search panel, the 'AOI Properties' section is expanded, showing 'AOI Information' for 'Lancaster County, Nebraska (NE109)'. The map area on the right shows an aerial view with a red hatched area of interest. The map includes a legend, a scale of 1:7,920, and a view extent of 'Contiguous U.S.'.

USDA United States Department of Agriculture
Natural Resources Conservation Service

Contact Us Archived Soil Surveys Soil Survey Status Glossary Preferences Link Logout Help

Area of Interest (AOI) Soil Map Soil Data Explorer Download Soils Data Shopping Cart (Free)

Search

Area of Interest

Open All Close All

AOI Properties

Clear AOI

AOI Information

Name

Map Unit Symbols

Use Soil Survey Area Map Unit Symbols

Use National Map Unit Symbols

Area (acres) 69.2

Soil Data Available from Web Soil Survey

Lancaster County, Nebraska (NE109)

Data Availability Tabular and Spatial, complete

Tabular Data Version 12, Oct 30, 2009

Spatial Data Version 4, Dec 11, 2007

Clear AOI

Import AOI

Export AOI

Quick Navigation

Address

State and County

Soil Survey Area

Latitude and Longitude

PLSS (Section, Township, Range)

Bureau of Land Management

Department of Defense

Area of Interest Interactive Map

Legend

View Extent: Contiguous U.S.

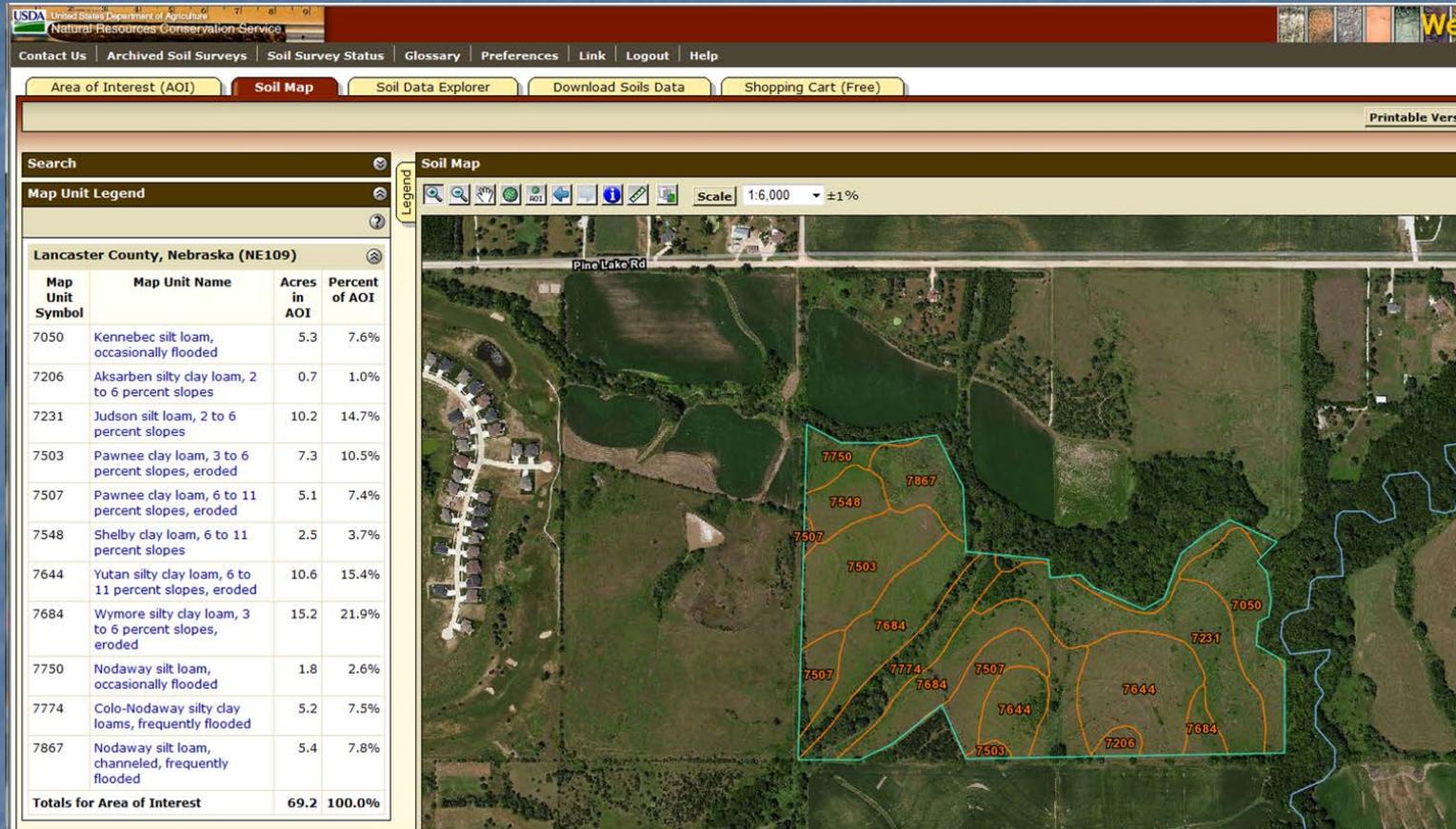
Scale: 1:7,920 ± 1 %

Pine Lake Rd

Lancaster

- After selecting an AOI, click the "Soil Map" tab.

Map Units Displayed



- A soil map for the AOI and a list of soil map units are displayed.

View Printable Map Unit Description

USDA United States Department of Agriculture
Natural Resources Conservation Service

Contact Us Archived Soil Surveys Soil Survey Status Glossary Preferences

Area of Interest (AOI) Soil Map Soil Data Explorer

Search

Map Unit Legend

Lancaster County, Nebraska (NE109)

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|------------------------------------|---|--------------|----------------|
| 7050 | Kennebec silt loam, occasionally flooded | 5.3 | 7.6% |
| 7206 | Aksarben silty clay loam, 2 to 6 percent slopes | | |
| 7231 | Judson silt loam, 2 to 6 percent slopes | | 14.7% |
| 7503 | Pawnee clay loam, 3 to 6 percent slopes, eroded | 7.3 | 10.5% |
| 7507 | Pawnee clay loam, 6 to 11 percent slopes, eroded | 5.1 | 7.4% |
| 7548 | Shelby clay loam, 6 to 11 percent slopes | 2.5 | 3.7% |
| 7644 | Yutan silty clay loam, 6 to 11 percent slopes, eroded | 10.6 | 15.4% |
| 7684 | Wymore silty clay loam, 3 to 6 percent slopes, eroded | 15.2 | 21.9% |
| 7750 | Nodaway silt loam, occasionally flooded | 1.8 | 2.6% |
| 7774 | Colo-Nodaway silty clay loams, frequently flooded | 5.2 | 7.5% |
| 7867 | Nodaway silt loam, channeled, frequently flooded | 5.4 | 7.8% |
| Totals for Area of Interest | | 69.2 | 100.0% |

Map Unit Description

Report — Map Unit Description

Lancaster County, Nebraska

7050—Kennebec silt loam, occasionally flooded

Map Unit Setting

Elevation: 1,000 to 1,500 feet
Mean annual precipitation: 30 to 32 inches
Mean annual air temperature: 52 to 55 degrees F
Frost-free period: 160 to 180 days

Map Unit Composition

Kennebec, occasionally flooded, and similar soils: 95 percent
Minor components: 5 percent

Description of Kennebec, Occasionally Flooded

Setting

Landform: Flood plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Silty alluvium

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: About 36 to 72 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: Very high (about 12.7 inches)

Interpretive groups

Land capability classification (irrigated): 2w
Land capability (nonirrigated): 2w
Ecological site: Loamy Overflow (R106XY068NE)

Typical profile

0 to 45 inches: Silt loam
45 to 60 inches: Silt loam

Printable Version

Printable Version Add to Shopping Cart

Web Soil Survey

- Click on a map unit name at left to view a map unit description.
- Clicking on the "Printable Version" button produces a PDF file.

Print Soil Map

The screenshot displays the USDA Web Soil Survey interface. At the top, there is a navigation bar with links for 'Contact Us', 'Archived Soil Surveys', 'Soil Survey Status', 'Glossary', 'Preferences', 'Link', 'Logout', and 'Help'. Below this is a secondary navigation bar with buttons for 'Area of Interest (AOI)', 'Soil Map', 'Soil Data Explorer', 'Download Soils Data', and 'Shopping Cart (Free)'. The main content area is divided into three sections: a search bar, a map unit legend, and a soil map. The map unit legend on the left lists various soil types with their respective acreages and percentages. The soil map on the right shows an aerial view of the area with soil units outlined in orange and labeled with their map unit numbers. A red arrow points to the 'Printable Version' button in the top right corner of the map area.

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|------------------------------------|---|--------------|----------------|
| 7050 | Kennebec silt loam, occasionally flooded | 5.3 | 7.6% |
| 7206 | Aksarben silty clay loam, 2 to 6 percent slopes | 0.7 | 1.0% |
| 7231 | Judson silt loam, 2 to 6 percent slopes | 10.2 | 14.7% |
| 7503 | Pawnee clay loam, 3 to 6 percent slopes, eroded | 7.3 | 10.5% |
| 7507 | Pawnee clay loam, 6 to 11 percent slopes, eroded | 5.1 | 7.4% |
| 7548 | Shelby clay loam, 6 to 11 percent slopes | 2.5 | 3.7% |
| 7644 | Yutan silty clay loam, 6 to 11 percent slopes, eroded | 10.6 | 15.4% |
| 7684 | Wymore silty clay loam, 3 to 6 percent slopes, eroded | 15.2 | 21.9% |
| 7750 | Nodaway silt loam, occasionally flooded | 1.8 | 2.6% |
| 7774 | Colo-Nodaway silty clay loams, frequently flooded | 5.2 | 7.5% |
| 7867 | Nodaway silt loam, channeled, frequently flooded | 5.4 | 7.8% |
| Totals for Area of Interest | | 69.2 | 100.0% |

- Clicking on the "Printable Version" button produces a PDF file of the soil map and legend.

Print Options

Printable Version Add to Shopping Cart ?

Printable Version Options ?

Report Options

Title Soil Map; Lancaster County, Nebraska

Subtitle (optional)

Area of Interest Name: (none defined)

Custom Subtitle:

None

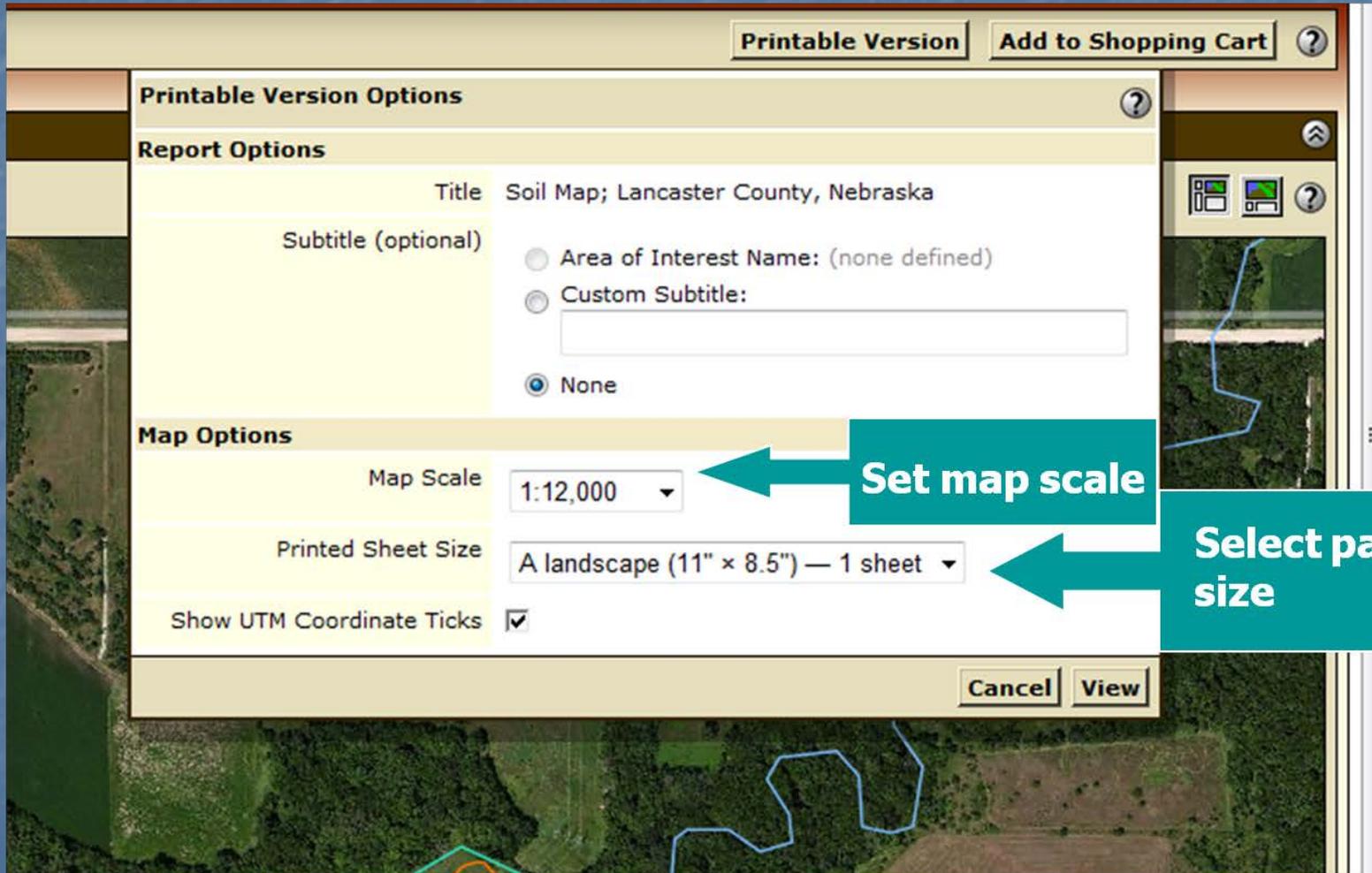
Map Options

Map Scale 1:12,000

Printed Sheet Size A landscape (11" x 8.5") — 1 sheet

Show UTM Coordinate Ticks

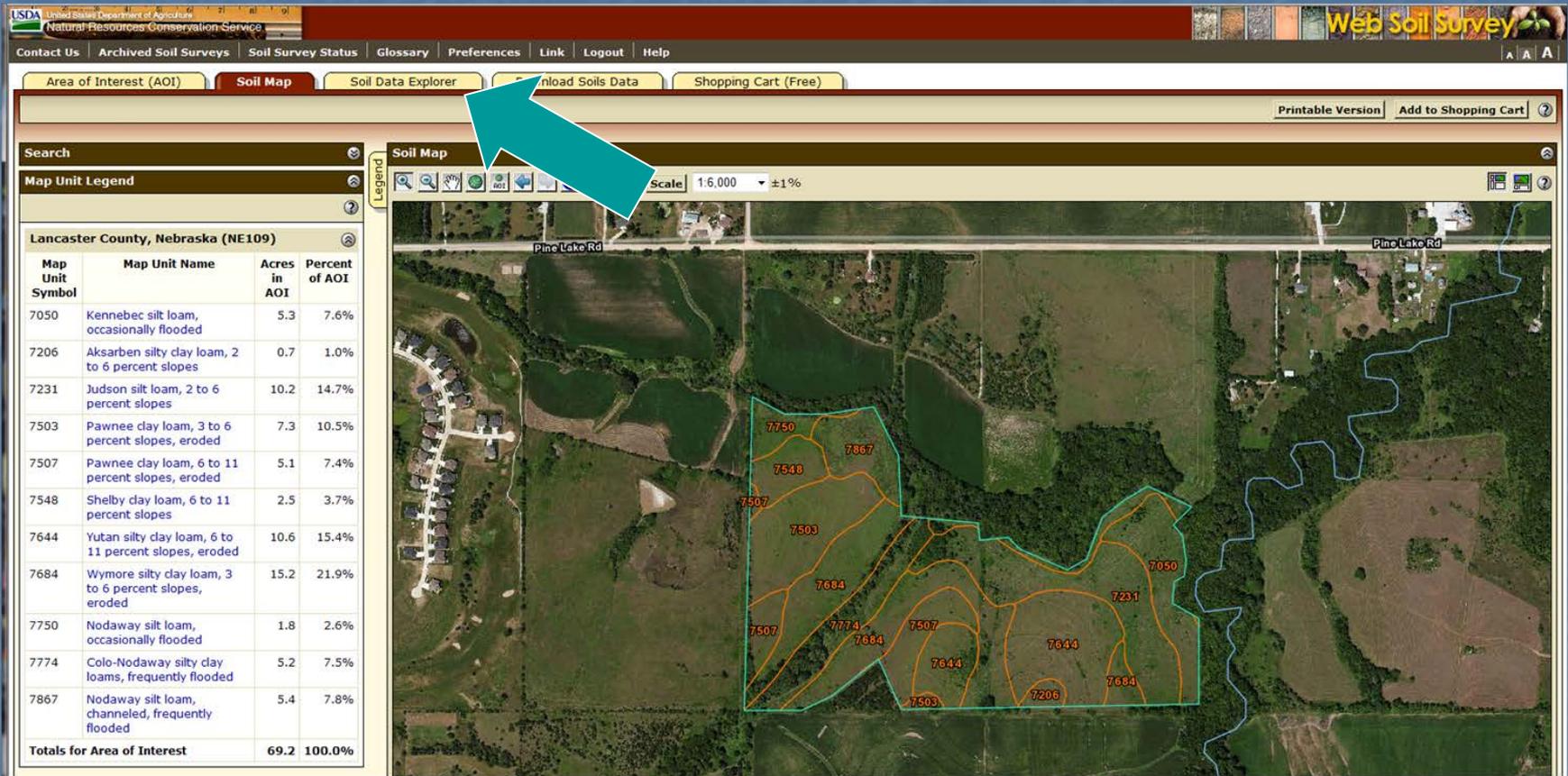
Cancel View



Set map scale

Select paper size

IIc. Explore Additional Soil Information



The screenshot displays the USDA Web Soil Survey interface. The top navigation bar includes links for 'Contact Us', 'Archived Soil Surveys', 'Soil Survey Status', 'Glossary', 'Preferences', 'Link', 'Logout', and 'Help'. The main navigation tabs are 'Area of Interest (AOI)', 'Soil Map', 'Soil Data Explorer', 'Download Soils Data', and 'Shopping Cart (Free)'. A red arrow points to the 'Soil Data Explorer' tab. The 'Soil Map' section shows an aerial view of a field with various soil map units outlined in orange and labeled with numbers like 7750, 7548, 7867, 7507, 7503, 7684, 7774, 7507, 7684, 7644, 7644, 7503, 7206, 7684, 7231, and 7050. The 'Map Unit Legend' section lists the following data:

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|------------------------------------|---|--------------|----------------|
| 7050 | Kennebec silt loam, occasionally flooded | 5.3 | 7.6% |
| 7206 | Aksarben silty clay loam, 2 to 6 percent slopes | 0.7 | 1.0% |
| 7231 | Judson silt loam, 2 to 6 percent slopes | 10.2 | 14.7% |
| 7503 | Pawnee clay loam, 3 to 6 percent slopes, eroded | 7.3 | 10.5% |
| 7507 | Pawnee clay loam, 6 to 11 percent slopes, eroded | 5.1 | 7.4% |
| 7548 | Shelby clay loam, 6 to 11 percent slopes | 2.5 | 3.7% |
| 7644 | Yutan silty clay loam, 6 to 11 percent slopes, eroded | 10.6 | 15.4% |
| 7684 | Wymore silty clay loam, 3 to 6 percent slopes, eroded | 15.2 | 21.9% |
| 7750 | Nodaway silt loam, occasionally flooded | 1.8 | 2.6% |
| 7774 | Colo-Nodaway silty clay loams, frequently flooded | 5.2 | 7.5% |
| 7867 | Nodaway silt loam, channeled, frequently flooded | 5.4 | 7.8% |
| Totals for Area of Interest | | 69.2 | 100.0% |

- Click "Soil Data Explorer" tab to see further information about the map units in your AOI.

Soil Data Explorer Features

- You can filter the soil information by land use category.
- You can view an introduction to the terminology and concepts of soils and specific land uses.
- You can view interpretive soil data and soil properties in the form of thematic maps, tables, and text.
- You can access information regarding ecological sites.
- You can print maps and reports about individual soil properties and interpretations.
- You can add content to the free shopping cart for inclusion in a custom report.

Help

The screenshot displays the USDA Web Soil Survey interface. At the top, the USDA logo and navigation menu are visible. The main content area is divided into a left sidebar and a right pane. The left sidebar contains a search bar and a list of 'Suitabilities and Limitations Ratings' including Building Site Development, Construction Materials, Disaster Recovery Planning, Land Classifications, Land Management, Military Operations, Recreational Development, Sanitary Facilities, Vegetative Productivity, Waste Management, and Water Management. The central 'Soil Map' shows a satellite view of a field with soil polygons labeled with numbers like 7750, 7548, 7867, 7507, 7503, 7684, 7774, 7684, 7507, and 7644. The right pane is titled '3 Explore.' and contains the following text:

Soil Data Explorer The third step in using Web Soil Survey is to explore the available information about your area of interest. The Soil Data Explorer tab provides several options for getting the information you need.

Finding relevant information

You can limit your view of soil information to a specific use, such as cropland, forestland, rangeland, or urban development, by selecting the use from the drop-down list on the button bar.

View Soil Information By Use:

- All Uses
- Cropland
- Forestland
- Hayland/Pastureland
- Horticulture
- Rangeland**
- Recreation
- Urban Uses

To get a particular type of soil information, use the inner tabs of the **Soil Data Explorer**:

Intro to Rangeland | **Suitabilities and Limitations for Use** | Soil Properties and Qualities | Ecological Site Assessment

Depending on the use category that you select from the drop-down list, the tabs and the contents of the tabs will change. Above, you see the inner tabs that are displayed when the *Rangeland* use category is selected.

Viewing and printing the information you want

In Web Soil Survey, you select information in the left column and view it in the right column. When you want to print or save the information in the right column, click the **Printable Version** button:

A teal arrow points to the 'Explore.' title in the right pane.

Introduction to Soils



The screenshot shows the 'Soil Data Explorer' website interface. At the top, there are three tabs: 'Area of Interest (AOI)', 'Soil Data Explorer', and 'Shopping Cart (Free)'. Below the tabs is a search bar labeled 'View Soil Information By'. The main navigation bar contains four tabs: 'Intro to Soils', 'Suitabilities and Limitations for Use', 'Soil Properties and Qualities', and 'Ecological Sites'. A teal arrow points to the 'Intro to Soils' tab. On the left side, there is a 'Search' box and a 'Table of Contents' section. The 'Table of Contents' section has a 'View Selected Topics' button with a question mark icon. Below the 'Table of Contents' is a list of topics with checkboxes and expand/collapse icons:

- All Uses
 - Introduction to Soils
 - Soils 101
 - Information for Land Users
 - Cropland
 - Land capability classification
 - Soil erosion and crop production
 - Cropland management
 - Forestland
 - Grazed Forestland
 - Forest Canopy
 - Forest Overstory
 - Forest Understory
 - Forest Productivity
 - Forestland Ecological Sites
 - Forestland Management
 - Agroforestry
 - Pastureland and Hayland
 - Forage
 - Pastureland Condition
 - Horticulture
 - Nutrient Management
 - Pest Management
 - Native Plants
 - Selecting the Right Tree
 - Attracting Butterflies

Introduction to Soils—cont.

Area of Interest (AOI) | Soil Map | **Soil Data Explorer** | Shopping Cart (Free)

View Soil Information By Use: All Uses | Printable Version | Add to Shopping Cart

Intro to Soils | Suitabilities and Limitations for Use | Soil Properties and Qualities | Ecological Site Assessment | Soil Reports

Search | **Content**

Table of Contents

[View Selected Topics](#)

- All Uses
 - Introduction to Soils
 - Soils
 - Information for Land Users
 - Cropland
 - Land capability classification
 - Soil erosion and crop production
 - Cropland management
 - Forestland
 - Grazed Forestland
 - Forest Canopy
 - Forest Overstory
 - Forest Understory
 - Forest Productivity
 - Forestland Ecological Sites
 - Forestland Management
 - Agroforestry

Content

All Uses

Cropland

Cropland is defined as a land cover or land use category that includes areas used for the production of adapted crops for harvest. Two subcategories of cropland are recognized: cultivated and noncultivated. Cultivated cropland is land that is used for either row crops or close-grown crops. Hayland or pastureland that is in a rotation with row crops or close-grown crops also is considered cultivated cropland. Noncultivated cropland includes permanent hayland and horticultural cropland.

Reference:
"2001 Annual NRI Glossary of Key Terms," National Resources Inventory, USDA, NRCS

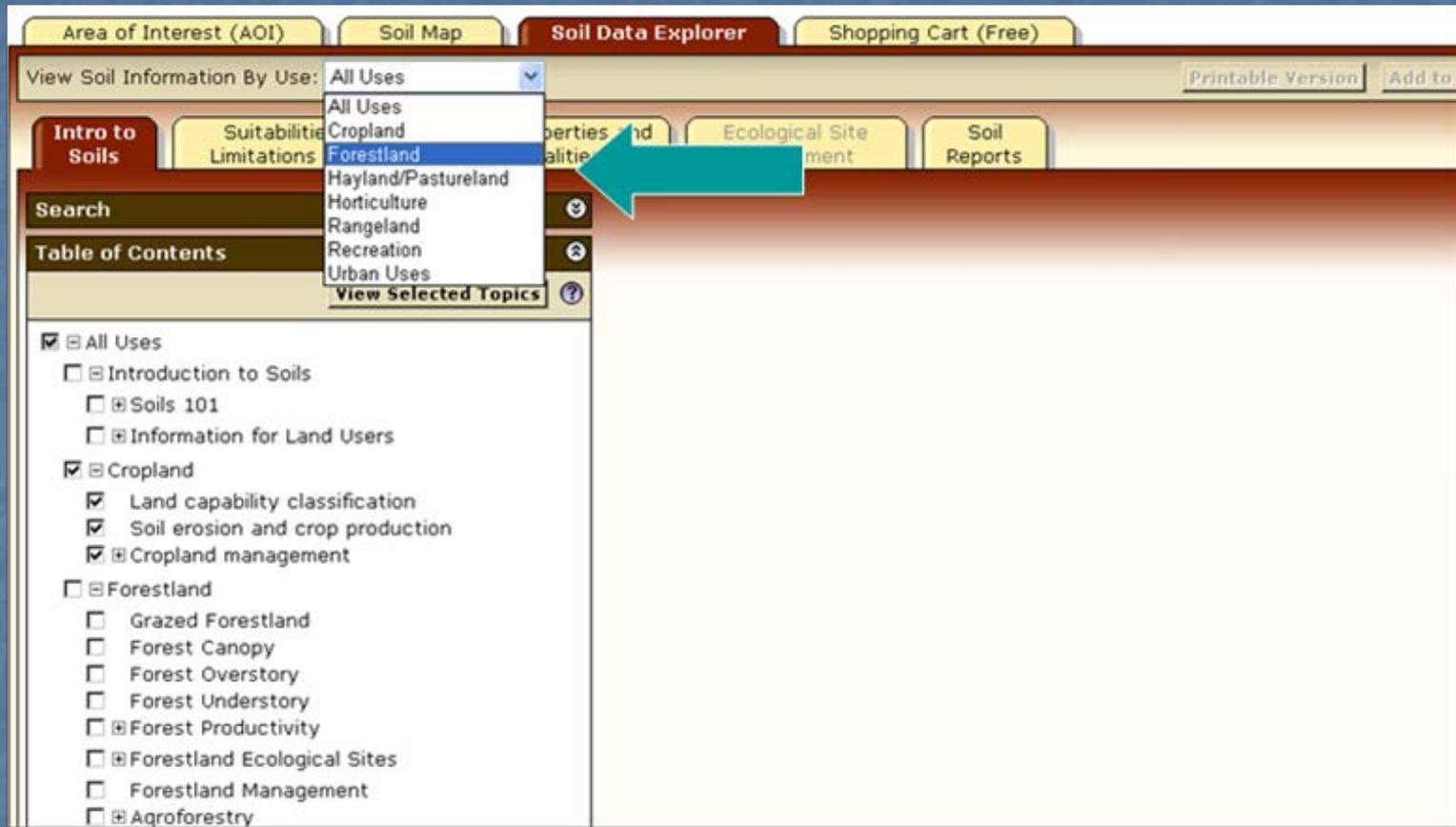
Land capability classification

Determinations of land capability involve consideration of the risks of land damage from erosion and other causes and the difficulties in land use resulting from physical land characteristics and from climate. Land capability, as used in the USA, is an expression of the effect of physical land characteristics and climate on the suitability of soils for crops that require regular tillage, for grazing, for woodland, and for wildlife habitat.

Land capability classification shows, in a general way, the suitability of soils for most kinds of field crops. Crops that require special management are excluded. The soils are grouped according to their limitations for field crops, the risk of damage if they are used for crops, and the way they respond to management. The criteria used in grouping the soils do not include major and generally expensive landforming that would change slope, depth, or other

- Check item(s) in list, then click "View Selected Topics" to display text.

Filter Information by Land Use



- Selecting a specific land use from the drop-down list filters the content on the "Soil Data Explorer" tab.

Example: Forestland Information

The screenshot shows the 'Soil Data Explorer' interface. At the top, there are tabs for 'Area of Interest (AOI)', 'Soil Map', and 'Soil Data Explorer'. Below the tabs, a dropdown menu is set to 'Forestland'. The main content area is titled 'Intro to Forestland' and contains a 'Table of Contents' section. This section lists various topics related to forestland, each with a checkbox. A teal arrow points from a text box to the 'Table of Contents' section.

View Soil Information By Use: Forestland

Intro to Forestland Suitabilities and Limitations for Use

Search

Table of Contents

[View Selected Topics](#)

- Forestland
 - Grazed Forestland
 - Forest Canopy
 - Forest Overstory
 - Forest Understory
 - Forest Productivity
 - Site Index
 - Forestland Ecological Sites
 - Succession and Retrogression
 - Historic Climax Plant Community
 - Naturalized Plant Community
 - Forestland Management
 - Agroforestry
 - Alley Cropping
 - Forest Farming
 - Riparian Forest Buffers
 - Silvopasture
 - Windbreaks
 - Special Applications
 - Where Does Agroforestry Apply?

[View Selected Topics](#)

List of topics narrowed to those related to Forestland.

Adding to Shopping Cart

The screenshot displays the 'Soil Data Explorer' web application. At the top, there are navigation tabs: 'Area of Interest (AOI)', 'Soil Map', 'Soil Data Explorer', and 'Shopping Cart (Free)'. Below these, a dropdown menu shows 'View Soil Information By Use: All Uses'. To the right of this menu are two buttons: 'Printable Version' and 'Add to Shopping Cart', with a red arrow pointing to the latter. Below the navigation is a horizontal menu with categories: 'Intro to Soils', 'Suitabilities and Limitations for Use', 'Soil Properties and Qualities', 'Ecological Site Assessment', and 'Soil Reports'. The main content area is split into two panels. The left panel, titled 'Search', contains a 'Table of Contents' with a 'View Selected Topics' button and a list of topics with checkboxes. The right panel, titled 'Content', displays information for 'All Uses' and 'Cropland', including a definition, a reference, and a section on 'Land capability classification'.

- Material displayed in right-hand panel (text, maps, tables, etc.) can be added to the shopping cart. The content is bundled in the shopping cart as a single PDF file for download or printing.

Suitabilities and Limitations

The screenshot displays the USDA Natural Resources Conservation Service website. The top navigation bar includes links for 'Contact Us', 'Archived Soil Surveys', 'Soil Survey Status', 'Glossary', 'Link', 'Logout', and 'Help'. Below this, there are tabs for 'Area of Interest (AOI)', 'Soil Map', and 'Soil Data', with 'Soil Data' being the active tab. A dropdown menu shows 'View Soil Information By Use: All Uses'. The main content area has tabs for 'Intro to Soils', 'Suitabilities and Limitations for Use', 'Soil Properties and Qualities', 'Ecological Site Assessment', and 'Soil Reports'. On the left, there is a search bar and a list of categories under 'Suitabilities and Limitations Ratings'. The 'Dwellings With Basements' category is highlighted in red. Below it, there are buttons for 'View Description' and 'View Rating'. The 'View Options' section includes checkboxes for 'Map', 'Table', 'Component Breakdown and Rating Reasons', 'Numeric Values', 'Description of Rating', and 'Rating Options'. The 'Advanced Options' section also has 'View Description' and 'View Rating' buttons. On the right, a 'Soil Map' is displayed with a scale of 1:6,000 and a ±1% error margin. The map shows a satellite view of a rural area with soil data overlaid in orange lines and numbers (7750, 7867, 7548, 7507, 7503, 7684). A legend is visible on the left side of the map.

- You can display a variety of interpretations as thematic maps.
- Open a category folder, then select an interpretation. Click "View Rating" button to display interpretive map.
- For further information regarding the options for an interpretation, click the "View Description" button.

Filter Choices by Land Use

View Soil Information By Use: Cropland

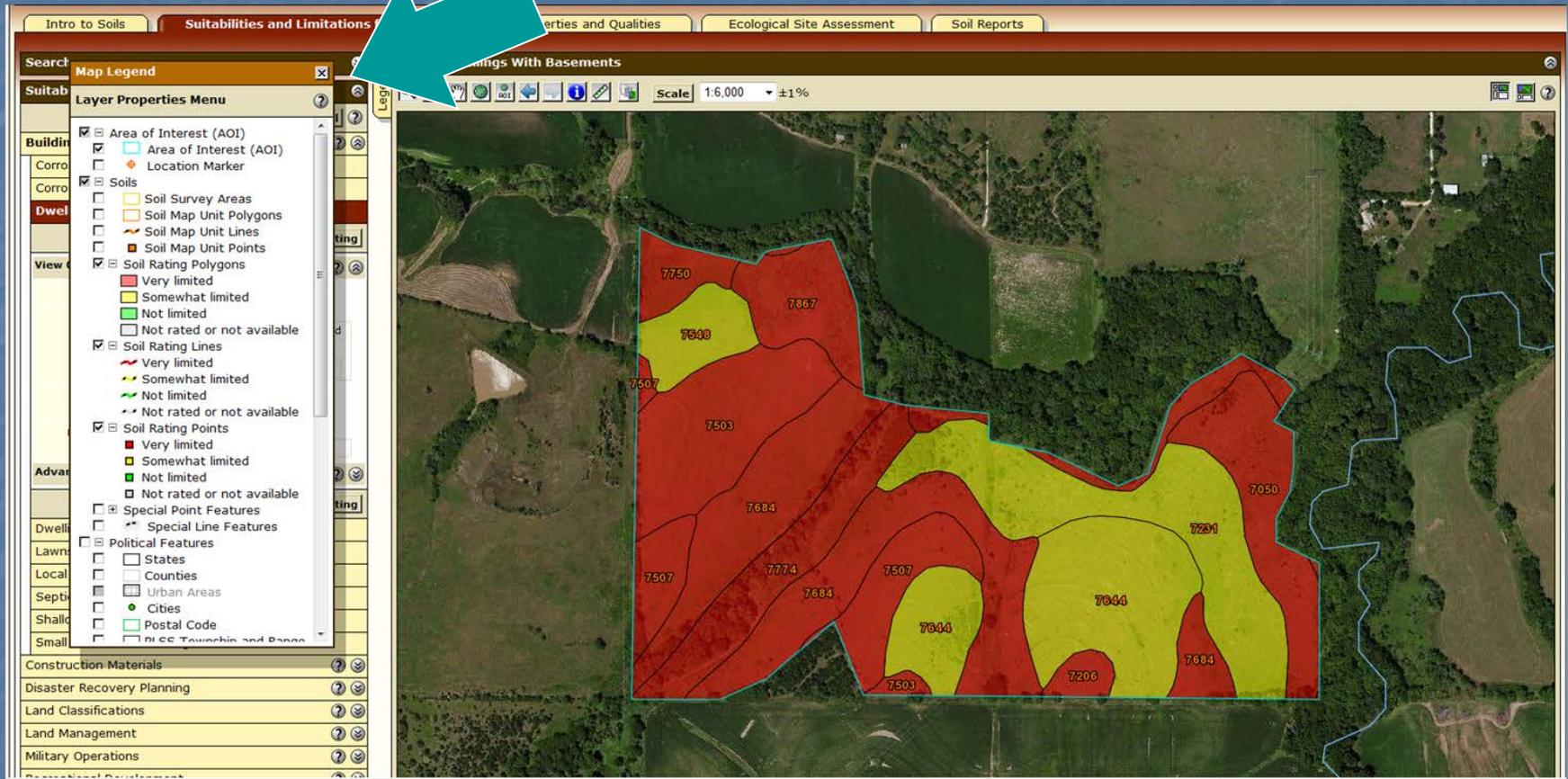
Suitabilities and Limitations Ratings

- Building Site Development
- Disaster Recovery Planning
- Land Classifications
- Land Management
- Military Operations
- Vegetative Productivity
- Waste Management
- Water Management

List changes according to land use.

- The list of suitabilities and limitations changes based on the land use selected.

Display an Interpretive Map



- After selecting an interpretation, click the "Legend" tab to display the map legend. A table is displayed below the map. The table shows ratings and limiting features of each soil in a summary report.

Sample Summary Report

| Tables — Dwellings With Basements — Summary By Map Unit | | | | | | |
|--|---|------------------|--|---------------------------------|--------------|----------------|
| Summary by Map Unit — Lancaster County, Nebraska (NE109) | | | | | | |
| Map unit symbol | Map unit name | Rating | Component name (percent) | Rating reasons (numeric values) | Acres in AOI | Percent of AOI |
| 7050 | Kennebec silt loam, occasionally flooded | Very limited | Kennebec, occasionally flooded (95%) | Flooding (1.00) | 5.5 | 7.8% |
| | | | | Depth to saturated zone (0.35) | | |
| | | | Colo, occasionally flooded (5%) | Flooding (1.00) | | |
| | | | | Depth to saturated zone (1.00) | | |
| 7206 | Aksarben silty clay loam, 2 to 6 percent slopes | Very limited | Aksarben (100%) | Shrink-swell (1.00) | 0.8 | 1.2% |
| 7231 | Judson silt loam, 2 to 6 percent slopes | Somewhat limited | Judson (99%) | Shrink-swell (0.50) | 10.3 | 14.6% |
| 7503 | Pawnee clay loam, 3 to 6 percent slopes, eroded | Very limited | Pawnee (100%) | Depth to saturated zone (1.00) | 7.3 | 10.4% |
| | | | Shrink-swell (1.00) | | | |
| 7507 | Pawnee clay loam, 6 to 11 percent slopes, eroded | Very limited | Pawnee (100%) | Depth to saturated zone (1.00) | 5.2 | 7.4% |
| | | | | Shrink-swell (1.00) | | |
| | | | | Slope (0.04) | | |
| 7548 | Shelby clay loam, 6 to 11 percent slopes | Somewhat limited | Shelby (100%) | Shrink-swell (0.50) | 2.6 | 3.6% |
| | | | | Slope (0.04) | | |
| 7644 | Yutan silty clay loam, 6 to 11 percent slopes, eroded | Somewhat limited | Yutan, Eroded (100%) | Shrink-swell (0.50) | 10.8 | 15.3% |
| 7684 | Wymore silty clay loam, 3 to 6 percent slopes, eroded | Very limited | Wymore (100%) | Depth to saturated zone (1.00) | 15.6 | 22.1% |
| | | | | Shrink-swell (1.00) | | |
| 7750 | Nodaway silt loam, occasionally flooded | Very limited | Nodaway, occasionally flooded (95%) | Flooding (1.00) | 1.7 | 2.5% |
| | | | | Depth to saturated zone (0.35) | | |
| | | | Colo, occasionally flooded (5%) | Flooding (1.00) | | |
| | | | | Depth to saturated zone (1.00) | | |
| 7774 | Colo-Nodaway silty clay loams, frequently flooded | Very limited | Colo, occasionally flooded (60%) | Flooding (1.00) | 5.2 | 7.4% |
| | | | | Depth to saturated zone (1.00) | | |
| | | | Nodaway, frequently flooded (40%) | Shrink-swell (0.50) | | |
| | | | | Flooding (1.00) | | |
| | | | Depth to saturated zone (0.35) | | | |
| 7967 | Nodaway silt loam, channeled, frequently flooded | Very limited | Nodaway, channeled, frequently flooded | Flooding (1.00) | 5.4 | 7.7% |

Interpretation Description and Selected Rating Options

- Further information regarding the selected interpretation is listed below the "Summary Report" table.

Description — Dwellings with Basements

Dwellings are single-family houses of three stories or less. For dwellings with basements, the foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of about 7 feet.

The ratings for dwellings are based on the soil properties that affect the capacity of the soil to support a load without movement and on the properties that affect excavation and construction costs. The properties that affect the load-supporting capacity include depth to a water table, ponding, flooding, subsidence, linear extensibility (shrink-swell potential), and compressibility. Compressibility is inferred from the Unified classification. The properties that affect the ease and amount of excavation include depth to a water table, ponding, flooding, slope, depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, and the amount and size of rock fragments.

Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect building site development. "Not limited" indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. "Somewhat limited" indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. "Very limited" indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Rating Options — Dwellings with Basements

Aggregation Method: Dominant Condition

Component Percent Cutoff: *None Specified*

Tie-break Rule: Higher

Soil Properties and Qualities



The screenshot displays the 'Soil Data Explorer' web application. At the top, there are navigation tabs: 'Area of Interest (AOI)', 'Soil Map', 'Soil Data Explorer', 'Download Soils Data', and 'Print (Free)'. Below these is a dropdown menu for 'View Soil Information By Use: All Uses' and buttons for 'Printable Version' and 'Add to Shopping Cart'. A secondary set of tabs includes 'Intro to Soils', 'Suitabilities and Limitations for Use', 'Soil Properties and Qualities' (which is highlighted), 'Ecological Site Assessment', and 'Soil Reports'. On the left side, there is a 'Search' section and a 'Properties and Qualities Ratings' panel with a list of categories: 'Soil Chemical Properties', 'Soil Erosion Factors', 'Soil Physical Properties', 'Soil Qualities and Features', and 'Water Features'. Each category has expand/collapse icons. The main area is a 'Soil Map' showing an aerial view of a landscape with soil boundaries overlaid in orange and green. Numerous soil map units are labeled with numbers such as 7750, 7867, 7548, 7507, 7503, 7684, 7774, 7507, 7644, 7503, 7206, 7644, 7231, 7050, and 7684. A scale bar indicates 1:6,000 ±1%.

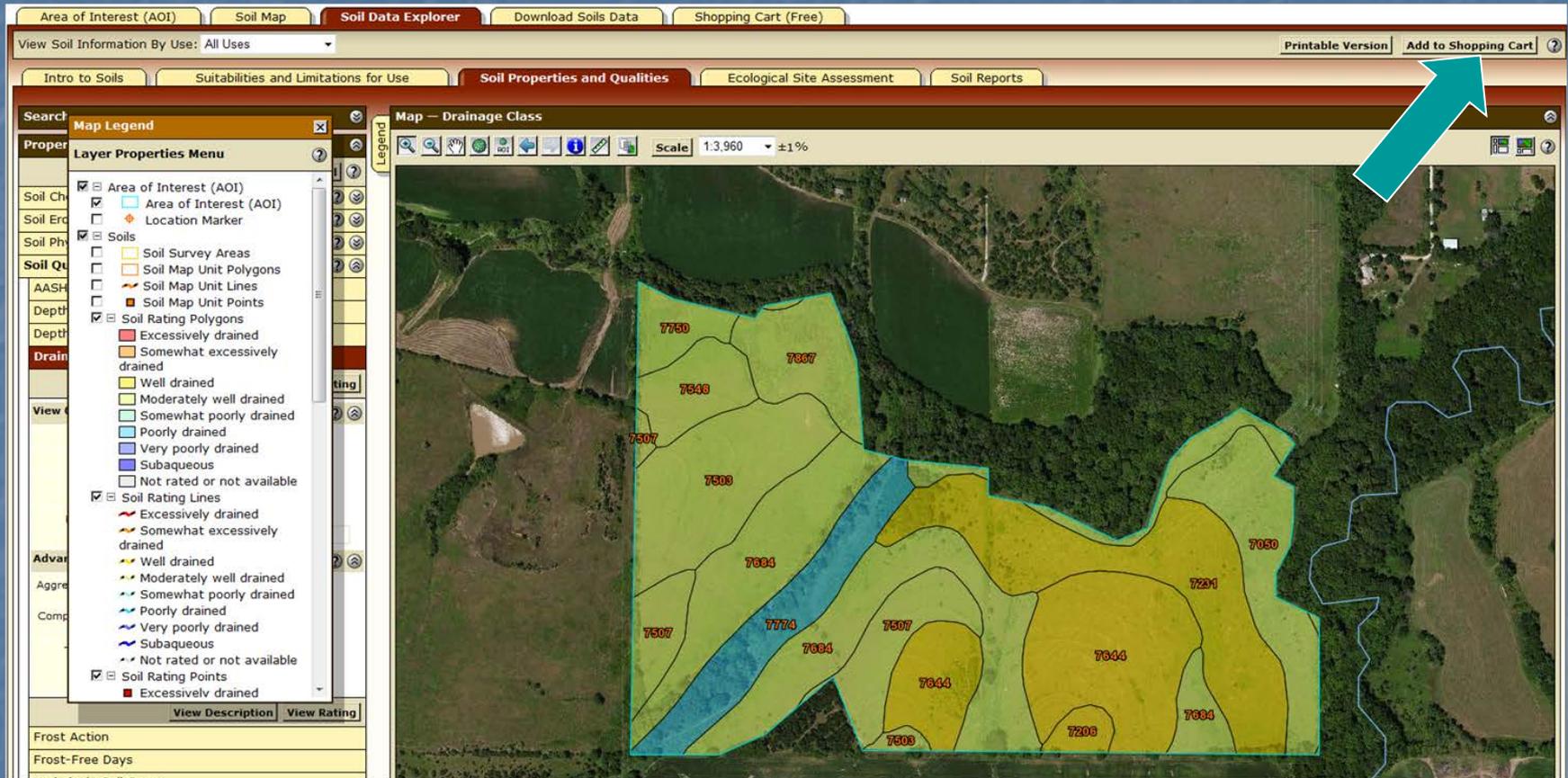
Select a Soil Property or Quality

The screenshot displays the 'Soil Data Explorer' web application. The interface is organized into several sections:

- Top Navigation:** Includes tabs for 'Area of Interest (AOI)', 'Soil Map', 'Soil Data Explorer', 'Download Soils Data', and 'Shopping Cart (Free)'. Below these are buttons for 'View Soil Information By Use: All Uses', 'Printable Version', and 'Add to Shopping Cart'.
- Search and Filter:** A search bar and a dropdown menu for 'View Soil Information By Use' are located at the top left.
- Properties and Qualities Ratings:** A section on the left sidebar with 'Open All' and 'Close All' buttons, listing categories like 'Soil Chemical Properties', 'Soil Erosion Factors', 'Soil Physical Properties', and 'Soil Qualities and Features'. A teal arrow points to the 'Drainage Class' category.
- Soil Map:** The main central area showing a map with various soil polygons and their associated numbers (e.g., 7750, 7548, 7687, 7507, 7503, 7684, 7050, 7231, 7644, 7684, 7503, 7206, 7684). A teal arrow points to the map area.
- View Options:** A section on the left sidebar with a '?' symbol and a help icon. A teal arrow points to this section.
- Advanced Options:** A section on the left sidebar with a '?' symbol and a help icon. A teal arrow points to this section.

- Note: Additional help is available for view options and advanced options. Click the respective "?" symbol.

Display Results



- Individual thematic maps and summary reports can be printed and/or added to the shopping cart. Information added to the cart will be available for creating a custom report.

Sample Summary Results and Description

| Tables — Drainage Class — Summary By Map Unit | | | | |
|--|---|-------------------------|--------------|----------------|
| Summary by Map Unit — Lancaster County, Nebraska (NE109) | | | | |
| Map unit symbol | Map unit name | Rating | Acres in AOI | Percent of AOI |
| 7050 | Kennebec silt loam, occasionally flooded | Moderately well drained | 5.5 | 7.8% |
| 7206 | Aksarben silty clay loam, 2 to 6 percent slopes | Well drained | 0.8 | 1.2% |
| 7231 | Judson silt loam, 2 to 6 percent slopes | Well drained | 10.3 | 14.6% |
| 7503 | Pawnee clay loam, 3 to 6 percent slopes, eroded | Moderately well drained | 7.3 | 10.4% |
| 7507 | Pawnee clay loam, 6 to 11 percent slopes, eroded | Moderately well drained | 5.2 | 7.4% |
| 7548 | Shelby clay loam, 6 to 11 percent slopes | Moderately well drained | 2.6 | 3.6% |
| 7644 | Yutan silty clay loam, 6 to 11 percent slopes, eroded | Well drained | 10.8 | 15.3% |
| 7684 | Wymore silty clay loam, 3 to 6 percent slopes, eroded | Moderately well drained | 15.6 | 22.1% |
| 7750 | Nodaway silt loam, occasionally flooded | Moderately well drained | 1.7 | 2.5% |
| 7774 | Colo-Nodaway silty clay loams, frequently flooded | Poorly drained | 5.2 | 7.4% |
| 7867 | Nodaway silt loam, channeled, frequently flooded | Moderately well drained | 5.4 | 7.7% |
| Totals for Area of Interest | | | 70.4 | 100.0% |
| Description — Drainage Class | | | | |
| <p>"Drainage class (natural)" refers to the frequency and duration of wet periods under conditions similar to those under which the soil formed. Alterations of the water regime by human activities, either through drainage or irrigation, are not a consideration unless they have significantly changed the morphology of the soil. Seven classes of natural soil drainage are recognized-excessively drained, somewhat excessively drained, well drained, moderately well drained, somewhat poorly drained, poorly drained, and very poorly drained. These classes are defined in the "Soil Survey Manual."</p> | | | | |
| Rating Options — Drainage Class | | | | |
| <p>Aggregation Method: Dominant Condition Component Percent Cutoff: None Specified Tie-break Rule: Higher</p> | | | | |

Ecological Site Assessment

The screenshot shows the 'Soil Data Explorer' web application. The top navigation bar includes 'Area of Interest (AOI)', 'Soil Map', 'Soil Data Explorer', 'Download Soils Data', and 'Shopping Cart (Free)'. Below this, there are tabs for 'Intro to Soils', 'Suitabilities and Limitations for Use', 'Soil Properties and Qualities', and 'Ecological Site Assessment'. The 'Ecological Site Assessment' tab is selected. On the left, there is a search bar and a list of 'Ecological Sites'. Below the list, there are 'View Options' and 'Basic Options' sections. The 'View Options' section has two checked items: 'Dominant Ecological Site Map' and 'Ecological Sites by Map Unit Component Table'. The 'Basic Options' section has 'Ecological Site Type' set to 'Rangeland'. The main map area shows a 'Map - Dominant Ecological Site - Rangeland' with a scale of 1:6,000. The map displays various soil map units with numerical identifiers (e.g., 7750, 7548, 7507, 7503, 7684, 7774, 7507, 7644, 7206, 7684, 7231, 7050) overlaid on an aerial photograph. Two teal arrows point to the 'Ecological Site Assessment' tab and the 'View Options' section.

- View information about ecological sites linked to soil map unit components.

Soil Reports

The screenshot displays the 'Soil Data Explorer' web application. At the top, there are navigation tabs: 'Area of Interest (AOI)', 'Soil Map', 'Soil Data Explorer', 'Download Soils Data', and 'Shopping Cart (Free)'. Below these, a dropdown menu is set to 'View Soil Information By Use: All Uses'. A teal arrow points to the 'Soil Reports' tab in the top navigation bar. The main content area is divided into a left sidebar and a central map. The sidebar contains a 'Search' section and a list of report categories: 'Soil Reports', 'Chemical Soil Properties', 'Soil Erosion', 'Soil Physical Properties', 'Soil Qualities and Features', 'Vegetative Productivity', 'Waste Management', 'Water Features', and 'Water Management'. Each category has a 'View Description' and 'View Soil Report' button. A teal arrow points to the 'View Soil Report' button for 'Chemical Soil Properties'. The central map, titled 'Soil Map', shows an aerial view of a landscape with soil boundaries overlaid in orange and green. Various soil units are labeled with numbers such as 7750, 7867, 7548, 7507, 7503, 7684, 7050, 7231, 7507, 7774, 7684, 7644, 7503, 7206, and 7684. The map includes a legend, a scale of 1:3,960, and a ±1% accuracy indicator.

- A broad selection of soil information relevant to specific topics is available in predetermined formats. Select a topic and click on the "View Soil Report" button to generate a report for your AOI.

Sample Soil Report: Chemical Soil Properties

| Report — Chemical Soil Properties | | | | | | | | |
|---|-----------|--------------------------|------------------------------------|---------------|-------------------|------------|-----------------|-------------------------|
| Lancaster County, Nebraska | | | | | | | | |
| Map symbol and soil name | Depth | Cation-exchange capacity | Effective cation-exchange capacity | Soil reaction | Calcium carbonate | Gypsum | Salinity | Sodium adsorption ratio |
| | <i>In</i> | <i>meq/100g</i> | <i>meq/100g</i> | <i>pH</i> | <i>Pct</i> | <i>Pct</i> | <i>mmhos/cm</i> | |
| 7050—Kennebec silt loam, occasionally flooded | | | | | | | | |
| Kennebec, occasionally flooded | 0-45 | 30-36 | — | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 45-60 | 30-36 | — | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 7206—Aksarben silty clay loam, 2 to 6 percent slopes | | | | | | | | |
| Aksarben | 0-7 | 25-35 | — | 5.1-6.5 | 0 | 0 | 0 | 0 |
| | 7-44 | 25-35 | — | 5.1-6.5 | 0 | 0 | 0 | 0 |
| | 44-60 | 25-35 | — | 5.6-6.5 | 0 | 0 | 0 | 0 |
| 7231—Judson silt loam, 2 to 6 percent slopes | | | | | | | | |
| Judson | 0-29 | 25-30 | — | 5.0-7.3 | 0 | 0 | 0 | 0 |
| | 29-60 | 25-30 | — | 5.6-7.3 | 0 | 0 | 0 | 0 |
| 7503—Pawnee clay loam, 3 to 6 percent slopes, eroded | | | | | | | | |
| Pawnee | 0-7 | 20-30 | — | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 7-38 | 30-40 | — | 6.1-7.8 | 0 | 0 | 0 | 0 |
| | 38-60 | 20-25 | — | 7.4-8.4 | 1-10 | 0 | 0 | 0 |
| 7507—Pawnee clay loam, 6 to 11 percent slopes, eroded | | | | | | | | |
| Pawnee | 0-7 | 20-30 | — | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 7-38 | 30-40 | — | 6.1-7.8 | 0 | 0 | 0 | 0 |

- The report is displayed below the soil map.

II(d). Shopping Cart for Selected Information

- WSS allows you to generate a custom soil resource report (in PDF) by adding selections to the free shopping cart.
 - The report is customized for your AOI.
 - The soil map, map unit legend, and map unit descriptions are included by default.
 - The other content is specifically chosen by you:
 - Thematic maps (including summary tables and text),
 - Ecological site description map and information,
 - Tabular data tables, and
 - Introductory material.

The Shopping Cart

The screenshot shows a web application interface with a top navigation bar containing tabs: 'Area of Interest (AOI)', 'Soil Map', 'Soil Data Explorer', 'Download Soils Data', and 'Shopping Cart (Free)'. The 'Shopping Cart (Free)' tab is active and highlighted in red. A teal arrow points to this tab. Below the navigation bar is a 'Check Out' button with a help icon. The main content area is divided into several sections:

- Search**: A search bar with a dropdown arrow.
- Report Properties**: A section with a help icon.
- Title**: A form with fields for 'Title' (filled with 'Custom Soil Resource Report for Lancaster County, Nebraska') and 'Subtitle'. The 'Subtitle' section has three radio button options: 'Area of Interest Name: (none defined)', 'Custom Subtitle:' (selected), and 'None'. A text input field under 'Custom Subtitle:' contains 'Joe's Weekend Hideaway'. A teal arrow points to this input field with the callout: 'Enter a subtitle if desired.'
- Size**: A section showing 'Total Size' as '959 KB (0.9 MB)'. A teal arrow points to this section with the callout: 'Choose map scale and paper size.'
- Map Options**: A section with a 'Map Scale' dropdown set to 'Fit to page' and a 'Printed Sheet Size' dropdown set to 'A landscape (11" x 8.5") - 1 sheet'. A teal arrow points to these dropdowns with the callout: 'Choose map scale and paper size.'
- Show UTM Coordinate Ticks**: A checkbox that is checked.
- Table of Contents**: A section with a help icon. A teal arrow points to this section with the callout: 'Table of Contents shows contents of Shopping Cart.'

- The shopping cart provides you with options for building a report based on your selections from the other tabs.

Table of Contents

| Table of Contents | | |
|-------------------------------------|--|--------|
| <input checked="" type="checkbox"/> | Custom Soil Resource Report for Lancaster County, Nebraska: Joe's Weekend Hideaway | 959 KB |
| <input checked="" type="checkbox"/> | Cover | 518 KB |
| <input checked="" type="checkbox"/> | Preface | 3 KB |
| <input checked="" type="checkbox"/> | Contents | 0 KB |
| <input checked="" type="checkbox"/> | How Soil Surveys Are Made | 5 KB |
| <input checked="" type="checkbox"/> | Soil Map | 429 KB |
| <input checked="" type="checkbox"/> | Soil Map | 380 KB |
| <input checked="" type="checkbox"/> | Map Unit Legend | 4 KB |
| <input checked="" type="checkbox"/> | Map Unit Description | 45 KB |
| <input checked="" type="checkbox"/> | Soil Data Explorer | |
| <input checked="" type="checkbox"/> | All Uses | |
| <input checked="" type="checkbox"/> | References | 3 KB |
| <input type="checkbox"/> | Glossary | 113 KB |

- Soil map, map unit legend, and map unit descriptions are included by default.
- Items can be deselected by unchecking them on the list if you decide you do not want them in your report. Additional items must be added in previous screens.

Preview an Item

Area of Interest (AOI) Soil Map Soil Data Explorer Download Soils Data **Shopping Cart (Free)**

Check Out ?

Search Report Properties Table of Contents

Custom Soil Resource Report for Lancaster County, Nebraska: Joe's Weekend Hideaway 959 KB

- Cover 518 KB
- Preface
- Contents
- How Soil Surveys Are Made
- Soil Map
 - Soil Map**
 - Map Unit Legend 4 KB
 - Map Unit Description 45 KB
- Soil Data Explorer
 - All Uses
- References 3 KB
- Glossary 113 KB

Click on an item to preview it.

Soil Map

Check Out

Area of Interest (AOI) | Soil Map | Soil Data Explorer | Download Soils Data | **Shopping Cart (Free)**

Check Out ?

Checkout Options ?

Delivery Options

Select a Delivery Method

Get now

Download later

Cancel OK

Search

Report Properties

Table of Contents

Custom Soil Resource Report for Lancaster County, Nebraska: Joe's Weekend Hideaway 959 KB

- Cover 518 KB
- Preface 3 KB
- Contents 0 KB
- How Soil Surveys Are Made 5 KB
- Soil Map 429 KB
 - Soil Map** 380 KB
 - Map Unit Legend 4 KB
 - Map Unit Description 45 KB
- Soil Data Explorer
 - All Uses 3 KB
- References 3 KB
- Glossary 113 KB

- During check out, you can elect to get the file now or later. The "Download later" option can be beneficial if the file is large.
- Click the "OK" button to initiate checkout.

Generation of Custom Soil Resource Report

Area of Interest (AOI) | Soil Map | Soil Data Explorer | Download Soils Data | Shopping Cart (Free) | Check Out

Search

Report Properties

Table of Contents

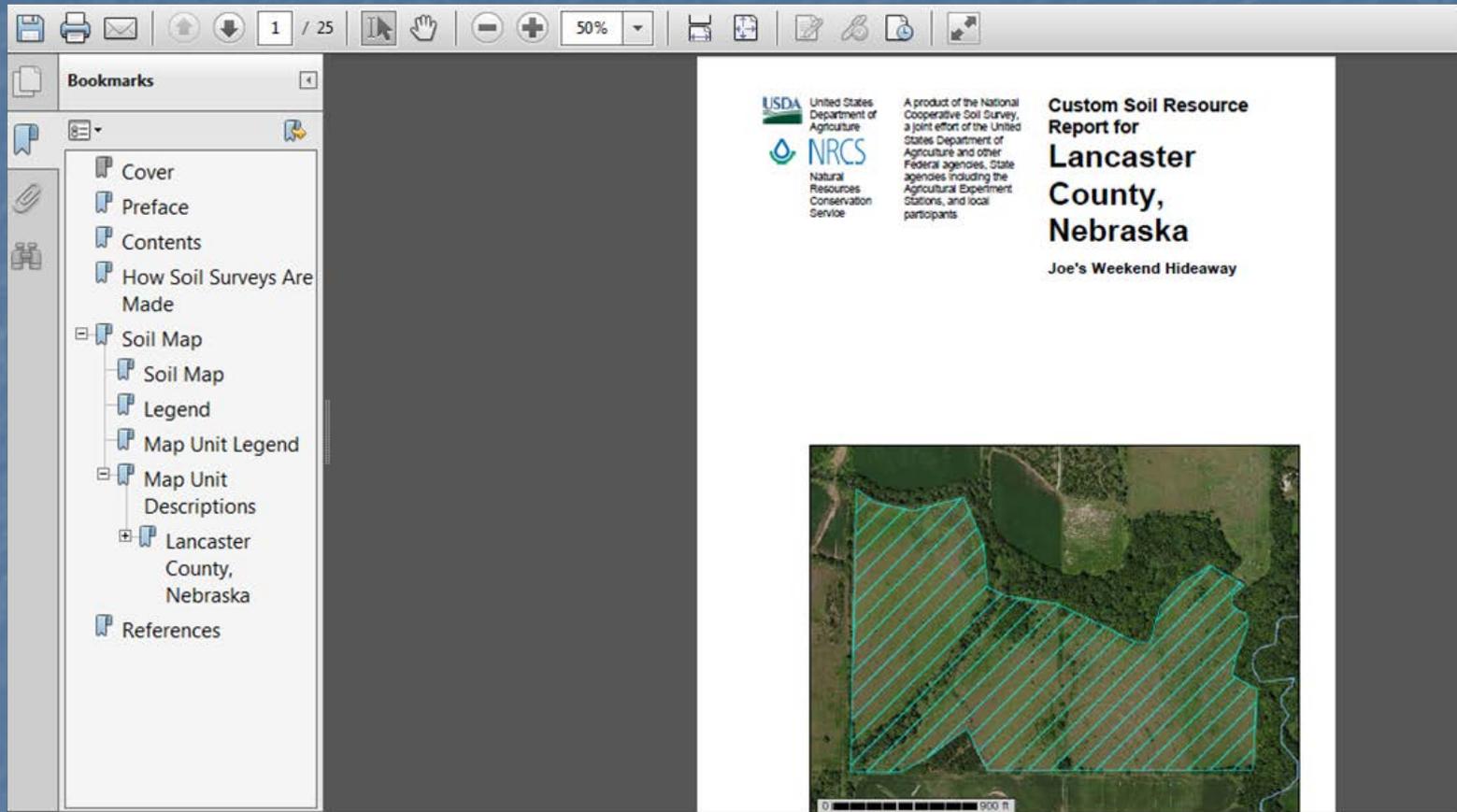
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Soil Map

Generating custom soil resource report...

- The time required to generate the report depends on the size and complexity of the items included and on the current traffic on the system.

Custom Soil Resource Report



- The report is generated as a PDF file that can be opened directly or saved to your local computer.

Part III: Download Data for GIS

- Overview
- Download
 - SSURGO Data for an Area of Interest (AOI)
 - SSURGO Data for a Survey Area
 - STATSGO2 data

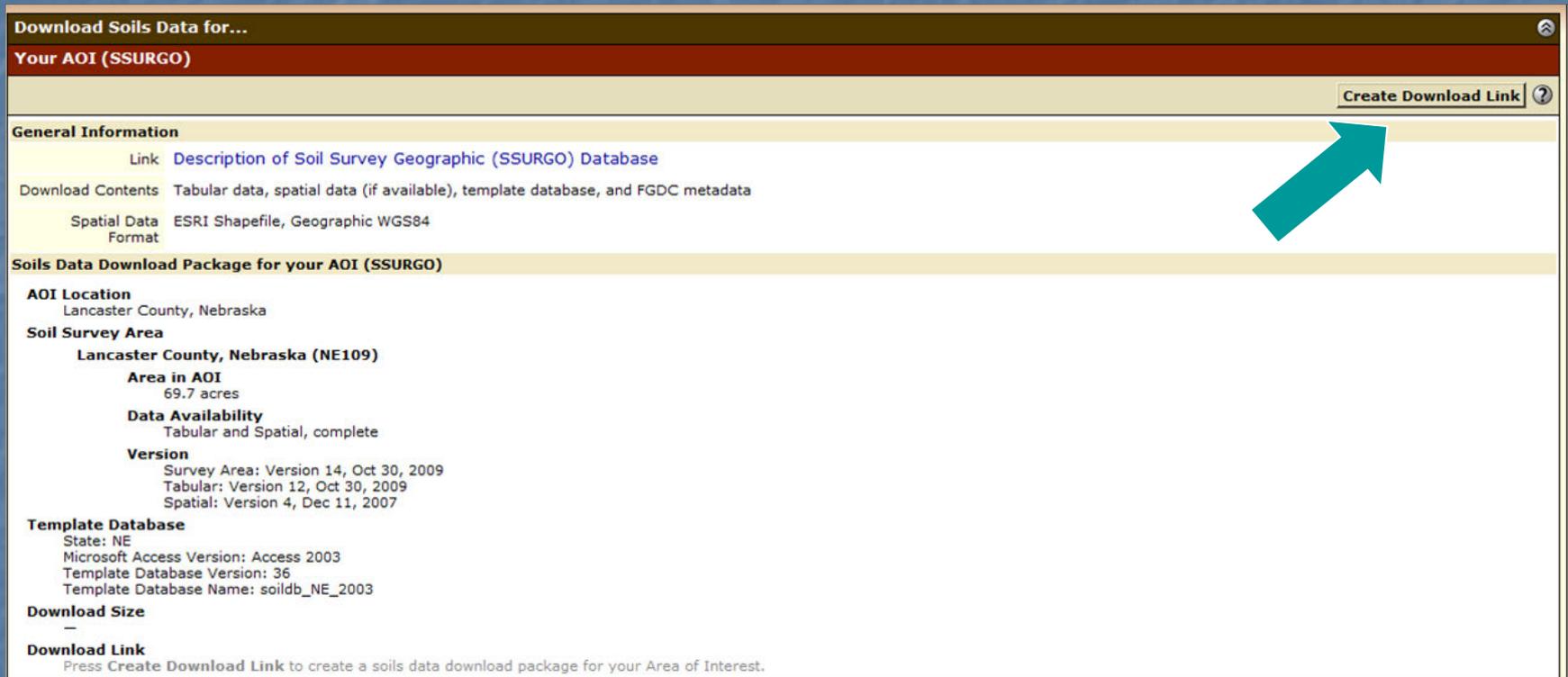
Overview

- WSS 3.0 allows you to download raw soil data for use in a local GIS.
- This feature replaces the data download functionality formerly in the Soil Data Mart. You can download:
 - SSURGO data clipped to the AOI boundary,
 - SSURGO data for entire soil survey areas,
 - STATSGO2 data by state or for the entire U.S.
- Links to SSURGO metadata reports are available.

Download Soils Data

The screenshot displays the USDA Web Soil Survey website. At the top, the USDA logo and 'Natural Resources Conservation Service' are visible. A navigation bar includes links for 'Contact Us', 'Archived Soil Surveys', 'Soil Survey Status', 'Glossary', 'Preferences', 'Link', 'Logout', and 'Help'. A secondary navigation bar features buttons for 'Area of Interest (AOI)', 'Soil Map', 'Soil Data Explorer', 'Download Soils Data', and 'Shopping Cart (Free)'. The 'Download Soils Data' button is highlighted with a teal arrow. Below it, a dropdown menu is open, showing options: 'Download Soils Data for...', 'Your AOI (SSURGO)', 'Soil Survey Area (SSURGO)', 'U.S. General Soil Map (STATSGO2)', and 'Download SSURGO Template Databases'. A second teal arrow points to the 'Download Soils Data for...' option. At the bottom of the page, there are links for 'FOIA', 'Accessibility Statement', 'Privacy Policy', 'Non-Discrimination Statement', 'Information Quality', 'USA.gov', and 'White House'.

SSURGO Data for Your AOI



Download Soils Data for...

Your AOI (SSURGO)

[Create Download Link](#) ?

General Information

Link [Description of Soil Survey Geographic \(SSURGO\) Database](#)

Download Contents Tabular data, spatial data (if available), template database, and FGDC metadata

Spatial Data Format ESRI Shapefile, Geographic WGS84

Soils Data Download Package for your AOI (SSURGO)

AOI Location
Lancaster County, Nebraska

Soil Survey Area
Lancaster County, Nebraska (NE109)

Area in AOI
69.7 acres

Data Availability
Tabular and Spatial, complete

Version
Survey Area: Version 14, Oct 30, 2009
Tabular: Version 12, Oct 30, 2009
Spatial: Version 4, Dec 11, 2007

Template Database
State: NE
Microsoft Access Version: Access 2003
Template Database Version: 36
Template Database Name: soildb_NE_2003

Download Size
-

Download Link
Press [Create Download Link](#) to create a soils data download package for your Area of Interest.

- If you have already designated a specific area of interest (see Part II above), you can download the GIS data for the area.

SSURGO Data for a Survey Area

Soil Survey Area (SSURGO)

General Information

Link: [Description of Soil Survey Geographic \(SSURGO\) Database](#)

Download Contents: Tabular data, spatial data (if available), template database (if selected), and FGDC metadata

Spatial Data Format: ESRI Shapefile, Geographic WGS84

Options

State:

County (optional):

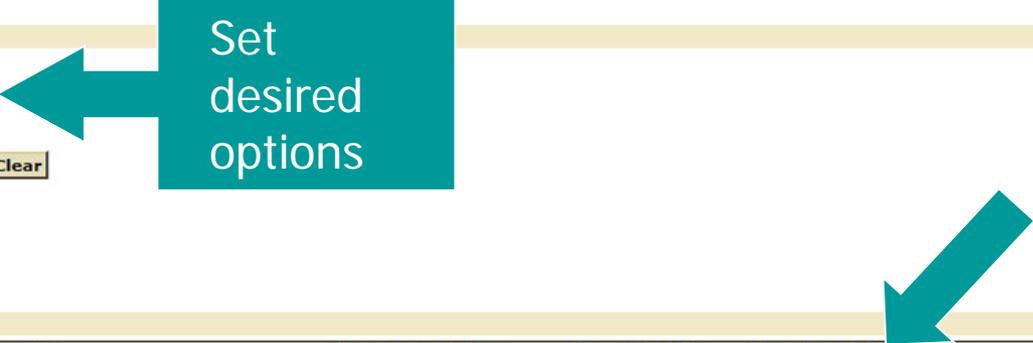
Only show Soil Survey Areas updated since...

Sort by...

Include Template Database

Soil Survey Area (SSURGO) Download Links

| Name | Area Symbol | Data Availability | Version | Template Database | Download Size | Download Link |
|---------------------------|-------------|-------------------------------|---|---|---------------|---|
| Adams County, Nebraska | NE001 | Tabular and Spatial, complete | Survey Area: Version 8, Oct 29, 2009 Tabular: Version 8, Oct 29, 2009 Spatial: Version 2, Jan 4, 2008 | soildb_NE_2003 Access 2003 Version 36 | 12.7 MB | wss_SSA_NE001_soildb_NE_2003_[2009-10-29].zip |
| Antelope County, Nebraska | NE003 | Tabular and Spatial, complete | Survey Area: Version 7, Oct 29, 2009 Tabular: Version 7, Oct 29, 2009 Spatial: Version 4 | soildb_NE_2003 Access 2003 Version 36 | 18.2 MB | wss_SSA_NE003_soildb_NE_2003_[2009-10-29].zip |



- You can download the GIS data for an entire soil survey area. Such areas are commonly entire counties. Scroll through the list of available soil survey areas by state, then click the Download Link.

STATSGO2 Data

Download Soils Data for...

Your AOI (SSURGO)

Soil Survey Area (SSURGO)

U.S. General Soil Map (STATSGO2)

General Information

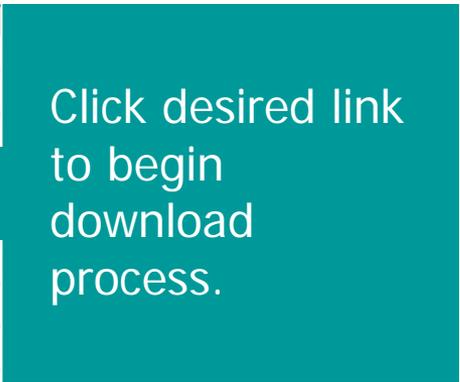
Link [Description of U.S. General Soil Map \(STATSGO2\)](#)

Download Contents Tabular data, spatial data, template database, and FGDC metadata

Spatial Data Format ESRI Shapefile, Geographic WGS84

STATSGO2 Download Links

| Spatial Extent | Download Size | Download Link |
|-------------------------|---------------|---|
| US: entire GSM data set | 332.0 MB | wss_gsmsoil_US_[2006-07-06].zip |
| Alabama | 8.0 MB | wss_gsmsoil_AL_[2006-07-06].zip |
| Alaska | 9.9 MB | wss_gsmsoil_AK_[2006-07-06].zip |
| Arizona | 8.2 MB | wss_gsmsoil_AZ_[2006-07-06].zip |
| Arkansas | 6.1 MB | wss_gsmsoil_AR_[2006-07-06].zip |
| California | 20.1 MB | wss_gsmsoil_CA_[2006-07-06].zip |
| Colorado | 12.0 MB | wss_gsmsoil_CO_[2006-07-06].zip |
| Connecticut | 2.8 MB | wss_gsmsoil_CT_[2006-07-06].zip |
| Delaware | 2.1 MB | wss_gsmsoil_DE_[2006-07-06].zip |



- You can download STATSGO2 data for the entire U.S. or for individual states.

Questions?

The screenshot shows the USDA Web Soil Survey interface. At the top, there is a navigation bar with links for 'Contact Us', 'Archived Soil Surveys', 'Soil Survey Status', 'Glossary', 'Preferences', 'Link', 'Logout', and 'Help'. A red arrow points to the 'Help' link. Below the navigation bar, there are tabs for 'Area of Interest (AOI)', 'Soil Map', 'Soil Data Explorer', 'Data', and 'Shopping Cart (Free)'. A red arrow points to the 'Data' tab. On the left side, there is a 'Search' panel with an 'Address' input field and a 'View' button. A red arrow points to the 'View' button. The main area is titled 'Area of Interest Interactive Map' and displays a map of the United States with state boundaries and labels. A red arrow points to a question mark icon in the top right corner of the map area. Another red arrow points to a question mark icon in the top right corner of the entire page.

- You can get general help from the top navigation bar or context-specific help from the "?" symbols.

More Ways to Get Help

The screenshot shows the USDA Natural Resources Conservation Service website. The top navigation bar includes links for Contact Us, Archived Soil Surveys, Soil Survey Status, Glossary, Preferences, Link, Logout, and Help. A sidebar on the left contains sections for Area of Interest, Search, Area of Interest, Import AOI, Quick Navigation, and Address. A central pop-up window titled "Having Problems Running Web Soil Survey?" and "Have Questions About the Soil Data?" provides contact information. The pop-up window contains the following text:

Having Problems Running Web Soil Survey?

If you have problems running Web Soil Survey, send email to: soilshotline@lin.usda.gov

Have Questions About the Soil Data?

If you have questions about the soil data displayed in Web Soil Survey, contact one of the following:

- The appropriate State office.
- The local office of the Natural Resources Conservation Service.

The background of the website shows a map of the Pacific Northwest region with state abbreviations WA, MT, OR, and ID visible.

- You can get help via email by clicking on "Contact Us" and then clicking on one of the links.