

Web Soil Survey (WSS) 2.0

How to Use It

Web Soil Survey -- purpose

- Web application that provides producers, agencies, Technical Service Providers, and others electronic access to relevant soil and related information needed to make use & management decisions about the land

Web Soil Survey -- purpose

- Provides alternative to traditional hardcopy publication
- Provides means for quicker delivery of information
 - reduce publication backlog
- Provides electronic access to full soil survey report content
- Provides access to most current data

Web Soil Survey -- purpose

- Allows customer to get just information they want/select
 - Map units for their geographic area of interest (AOI)
 - Information relevant to customer's landuse – e.g. rangeland concerns

WSS Products

- Soil Map on aerial photo backdrop for the AOI from SSURGO (where available)
 - Topographic maps are available as an alternate background
- Official soil survey data tables by AOI
- Custom Soil Resource Report via Shopping Cart
- Download SSURGO data

WSS Products

- Custom Soil Resource Report (PDF) via Shopping Cart
 - By AOI
 - Soil map, map unit legend, map unit descriptions
 - Content specifically chosen by user
 - Thematic Maps (with tables and text)
 - Tabular data tables
 - Introductory material

Target Audience

- General public
- Engineers, scientists, and other specialists in local governmental agencies
- NRCS (and other governmental agencies) field employees
- Technical service providers and consultants
- Teachers and students

Pathway through WSS

- Define area of interest – you must specifically set the AOI before you can view any maps or reports
- View Soil Map – if available for AOI
- Browse/Explore soil data and related information
 - Generate thematic maps
 - Access official soil survey data tables
- Build custom soil resource report in Shopping Cart
- Print/download the selected map or report

WSS 2.0 Homepage



USDA United States Department of Agriculture
Natural Resources Conservation Service

Web Soil Survey

Home About Soils Contact Us

You are here: WSS Home

Search


Enter Keywords

All NRCRS 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
- National Soil Characterization Data
- Soil Geochemistry Spatial Database
- Soil Quality
- Soil Geography
- Geospatial One Stop

The simple yet powerful way to access and use 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 has soil maps and data available online for more than 95 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.

Three Basic Steps

1 Define.

Area of Interest (AOI)



[Use the Area of Interest tab](#) to define your area of interest.

Mouseover to enlarge image.

2 View/Explore.

Soil Map



[Click the Soil Map tab](#) to view or print a soil map, or click the [Soil Data Explorer tab](#) to view soil data.

Start

- Start Web Soil Survey (WSS)
- Know the requirements for running Web Soil Survey
- Know whether my web browser works with Web Soil Survey
- Know the Web Soil Survey hours of operation
- Find what areas of the U.S. have soil data

New Features

Announcements/Events

- Web Soil Survey 2.0 has been released! [View description of new features.](#)

I Want Help With...

- How to use Web Soil Survey
- Known problems and workarounds
- Frequently Asked Questions
- Citing Web Soil Survey as a source of soils data


View List of New Features

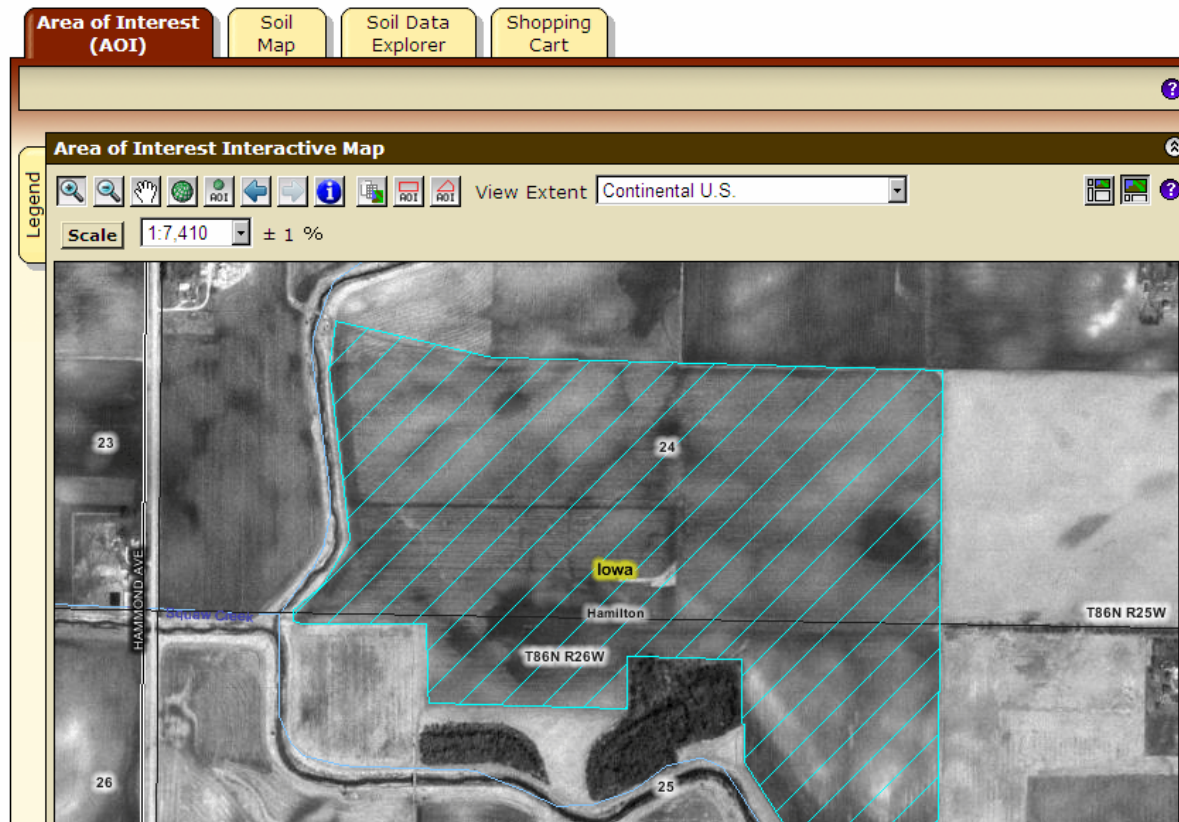
You spoke—we listened.

Results of Fall 2006 Customer Survey of Web Soil Survey

In our survey last fall, you spoke clearly for the enhancements and improvements you want in Web Soil Survey. We are happy to announce the release of Web Soil Survey 2.0 and the following highly requested changes:

- **The shifted (tilted) AOI boundary problem has been corrected!** You can now draw more precise AOI boundaries. To start over after beginning to draw the AOI, press the Escape (Esc) key on your keyboard without lifting the mouse button. Also, for easier and more precise

drawing of AOIs, expand the map to full window size by clicking the Full Width Layout  button.



WSS Opening Screen

USDA United States Department of Agriculture
Natural Resources Conservation Service

Web Soil Survey

Contact Us | Download Soils Data | Archived Soil Surveys | Preferences | Logout | Help

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

Quick Navigation

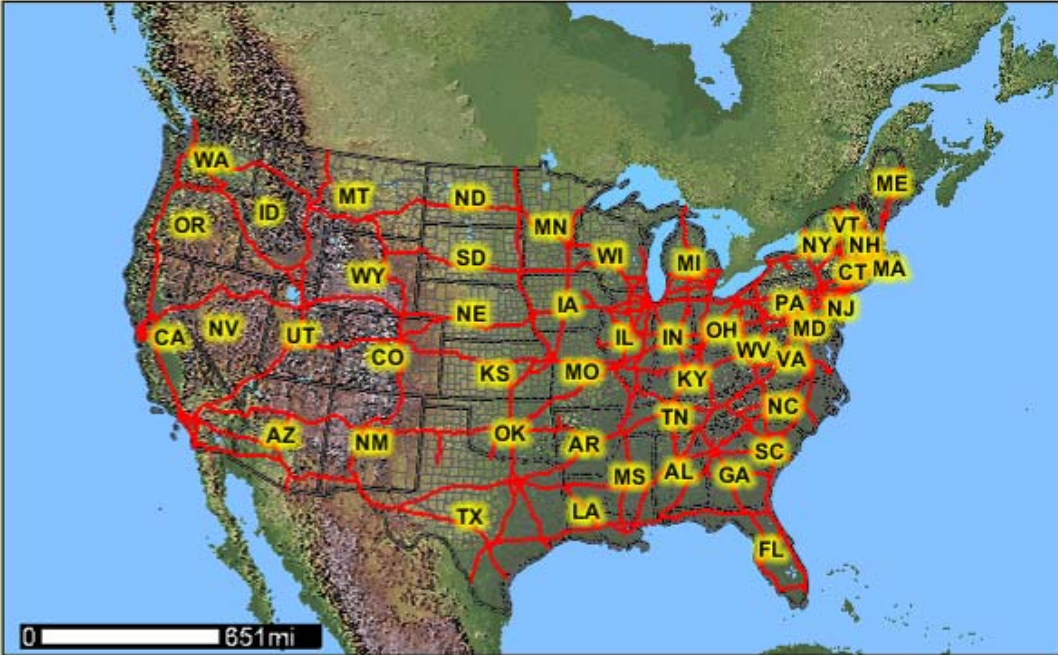
Navigate By...

- 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 Map

Legend

View Extent: Continental U.S. | Scale: (not to scale)



0 651mi

Look and Feel

The screenshot displays the USDA Web Soil Survey website. At the top, the header includes the USDA logo, 'United States Department of Agriculture', 'Natural Resources Conservation Service', and 'Web Soil Survey'. A navigation bar contains links for 'Contact Us', 'Download Soils Data', 'Archived Soil Surveys', 'Preferences', 'Logout', and 'Help'. A 'Shopping Cart' button is also visible.

The 'Scope of Preferences' dialog box is open, showing the following settings:

- Remember preferences after the end of this session:
- Application Preferences:
 - Maximize Browser Window:
 - Show Maps by Default:
 - Open Links and PDFs in External Windows:
 - Color Scheme:
 - Soil:
 - Windows:

Buttons at the bottom of the dialog are 'Cancel', 'Reset Defaults', and 'Save Preferences'. Two teal arrows point from the 'Open Links and PDFs in External Windows' and 'Color Scheme' sections towards the map area.

The background shows the 'Interactive Map' of the Continental U.S. with state boundaries and labels. A scale bar indicates 0 to 672.5 miles.

At the bottom of the page, a footer contains links for 'FOIA', 'Accessibility Statement', 'Privacy Policy', 'Non-Discrimination Statement', 'Information Quality', 'USA.gov', and 'White House'.

- View PDFs and links in the same browser window as WSS.
- Choose "Soils" or "Windows" color schemes.

View Other Geographic Areas

USDA United States Department of Agriculture
Natural Resources Conservation Service

Web Soil Survey

Contact Us | Download Soils Data | Archived Soil Surveys | Preferences | Logout | Help

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

Quick Navigation

Navigate By...

- 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 Map

Legend

View Extent: Continental U.S.

- Continental U.S.
- Alaska
- Hawaii
- Pacific Basin**
- American Samoa
- Federated States of Micronesia
- Guam
- Marshall Islands
- Palau
- Northern Mariana Islands
- Puerto Rico

Scale: (not to scale)

0 672.5mi

Get Online Help

The screenshot shows the USDA Web Soil Survey interface. At the top, the USDA logo and 'Natural Resources Conservation Service' are visible. The main navigation bar includes 'Contact Us', 'Download Soils Data', 'Archived Soil Surveys', 'Preferences', 'Logout', and 'Help'. Below this, there are tabs for 'Area of Interest (AOI)', 'Soil Map', 'Soil Data Explorer', and 'Soil Survey Cart'. The 'Area of Interest (AOI)' tab is active, showing a 'Quick Navigation' panel on the left and an 'Area of Interest Interactive Map' on the right. The 'Quick Navigation' panel has a 'View' button with a question mark icon. The 'Area of Interest Interactive Map' has a 'View' button with a question mark icon. Teal arrows point to these help icons.

USDA United States Department of Agriculture
Natural Resources Conservation Service

Web Soil Survey

Contact Us | Download Soils Data | Archived Soil Surveys | Preferences | Logout | Help

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

Quick Navigation

Navigate By...

Address

View ?

Address

City

State

Zip Code

Show Postal Code Layer in Map

View

Area of Interest Interactive Map

Legend

View Extended Continental U.S. Scale (not to scale)

0 872.5mi

FOIA | Accessibility Statement | Privacy Policy | Non-Discrimination Statement | Information Quality | USA.gov | White House

- Click on Help or a “?” for online help.

More ways to get Help

United States Department of Agriculture
NRCS Natural Resources Conservation Service

Contact Us | Download Soils Data | Preferences | Logout | Help

Having Problems Running Web Soil Survey? [X]

If you have problems running Web Soil Survey, send email to: hotline@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.](#)

Area of Interest

Quick Navigation

Address

City

State

Zip Code

Legal

Interact

01

405

82

- Click on "Contact Us".

View Map at Full Screen Width

Area of Interest Interactive Map

Legend

View Extent Continental U.S. Scale (not to scale)

0 402.6mi

Quick Navigation

Navigate By...

- Address
- State and County
- Soil Survey Area

Floating Windows

The screenshot displays the USDA Web Soil Survey website. At the top, the USDA logo and "Natural Resources Conservation Service" are visible. The main navigation bar includes links for "Contact Us", "Download Soils Data", "Archived Soil Surveys", "Preferences", "Logout", and "Help". Below this, there are tabs for "Area of Interest (AOI)", "Soil Map", "Soil Data Explorer", and "Shopping Cart".

The "Area of Interest (AOI)" window is active, showing a "Quick Navigation" sidebar with a "Navigate By..." dropdown menu. The menu options include: 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 large teal arrow points from this menu towards the "Area of Interest Interactive Map" window.

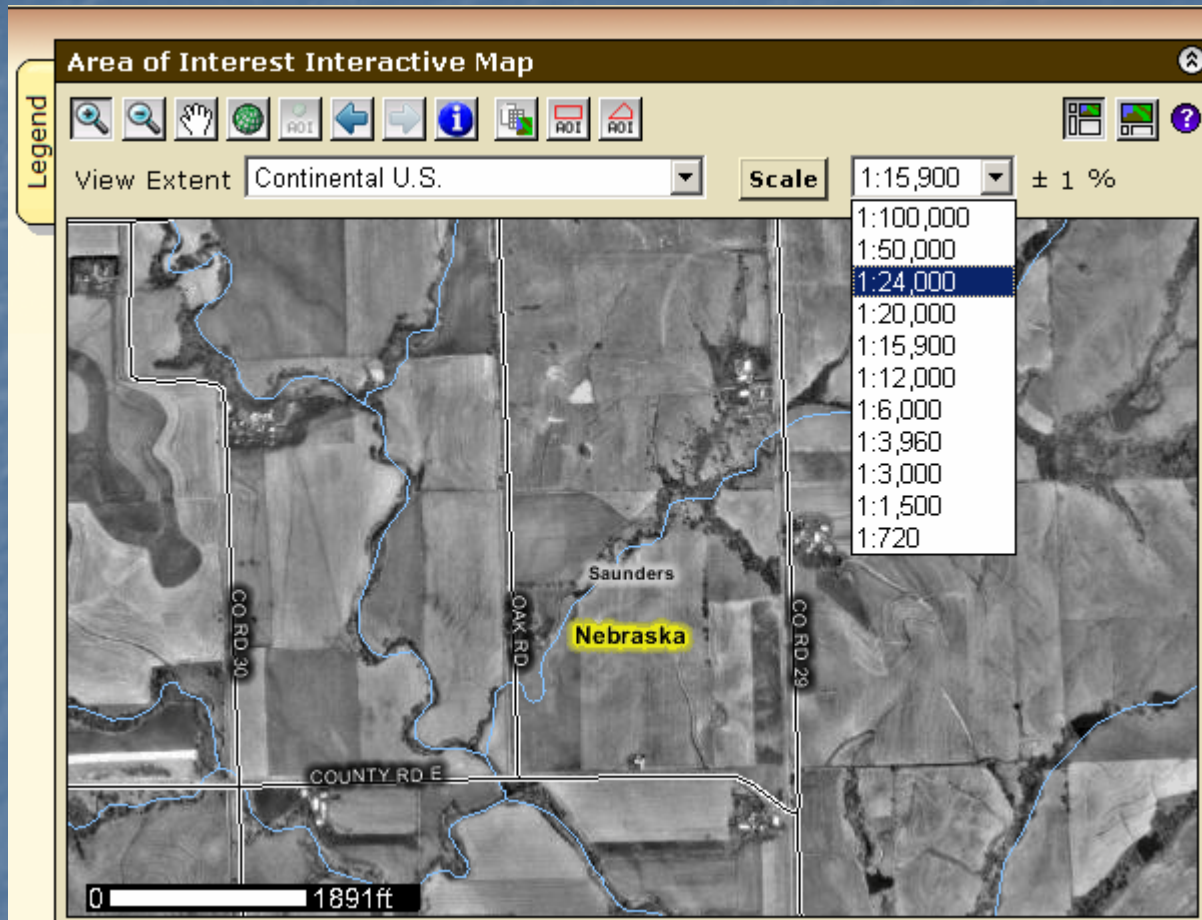
The "Area of Interest Interactive Map" window shows a map of the United States with state boundaries and a red outline indicating the selected Area of Interest. The map includes a "View Extent" dropdown set to "Continental U.S." and a "Scale" dropdown set to "(not to scale)". A scale bar at the bottom of the map indicates 673.8 miles.

A "Legend" window is also open, showing a "Map Legend" with various layers and their corresponding symbols. The legend items are: Area of Interest (AOI) (checked), Area of Interest (AOI) (checked), Soils (unchecked), Soil Survey Areas (unchecked), Soil Map Units (unchecked), Soil Ratings (unchecked), Special Point Features (unchecked), Special Line Features (unchecked), Political Features (checked), and a partially visible "Soil Survey Areas" (unchecked) at the bottom.

At the bottom of the page, there are links for "FOIA | Accessibility", "Discrimination Statement | Information Quality | USA.gov | White House".

- You can move the Legend window around wherever you want.

Set Map Scale



- First calibrate your monitor by clicking Scale button
- Use the map scale feature to see the scale you've zoomed to and to change to a different map scale.

Identify Tool

on

Area of Interest Interactive

Legend

Map Legend

- water Features
 - Water
 - Oceans
 - Streams and Canals
 - 8-Digit Hydrologic Units
- Transportation
 - Rails
 - Roads
 - Interstate Highways
 - US Routes
 - State Highways
 - Local Roads
 - Other Roads
- Background (only one is visible at a time)
 - Aerial Photography
 - Topographic Map
 - Shaded Relief

View Extent Continental U.S. Scale 1 ± 1 %

Nebraska

Identify Results

| Attribute Name | Attribute Value |
|------------------------------------|-----------------|
| Date aerial image was photographed | 4/16/1993 |

- Highlight the layer, then click the identify tool. See the Attribute Value for information on the layer – e.g. date of photography.
- Sticky cursor identifies the point you clicked with the Identify and Data Available map tool.

Area of Interest (AOI) Features

- Navigate to an AOI using basic map navigation themes
 - Transportation
 - Aerial photograph
 - Water features
 - Political features
 - Topographic map
- Use available zoom in/out tools

Area of Interest Features, cont.

- Navigate to an AOI using selection criteria:
 - Street address
 - State and County
 - Soil Survey Area
 - Latitude and Longitude
 - PLSS (Township, Range and Section)
 - Federal Land Boundaries
 - Hydrologic Unit

Area of Interest Features, cont.

- Define an AOI by
 - drawing a polygon on a map
 - expanding rectangle, or
 - digitize multi-sided polygon
 - selecting a soil survey area
- Clear AOI

Area of Interest Features, cont.

- Display data available for defined AOI
 - Soil data – from Soil Data Mart (official soil data repository)
 - Soil maps – from Soil Data Mart
- Name your AOI (optional)
- Choose either standard or national map unit symbols

Locate Area of Interest (AOI)

USDA United States Department of Agriculture
Natural Resources Conservation Service

Web Soil Survey

Contact Us | Download Soils Data | Archived Soil Surveys | Preferences | Logout | Help

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

Select **Zoom** **Draw**

Quick Navigation

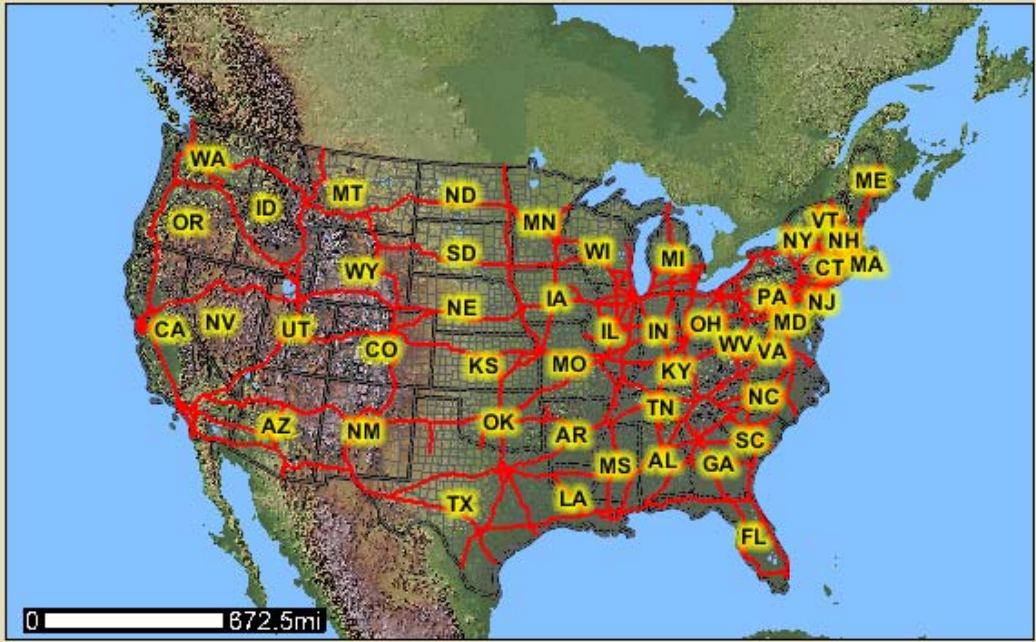
Navigate By...

- 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 Map

Legend

View Extent: Continental U.S. | Scale: 1:34,900,000 ± 1 %



0 672.5mi

The screenshot shows the USDA Web Soil Survey interface. On the left, a 'Quick Navigation' sidebar lists various search methods like 'Address' and 'State and County'. A teal arrow labeled 'Select' points to this sidebar. The main map area, titled 'Area of Interest Interactive Map', features a toolbar with icons for zooming and drawing. A teal arrow labeled 'Zoom' points to the zoom icons, and another teal arrow labeled 'Draw' points to the drawing icons. The map itself displays the continental United States with state abbreviations and a red outline representing an Area of Interest. A scale bar at the bottom indicates 672.5 miles. The top navigation bar includes links for 'Contact Us', 'Download Soils Data', 'Archived Soil Surveys', 'Preferences', 'Logout', and 'Help'. The top right corner has a 'Web Soil Survey' logo and a small image of a plant.

Navigate to AOI by Street Address

USDA United States Department of Agriculture
Natural Resources Conservation Service

Web Soil Survey

Contact Us | Download Soils Data | Archived Soil Surveys | Preferences | Logout | Help

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

Quick Navigation

Navigate By...

Address

View

Address: 11000 rocky ridge rd

City:

State:

Zip Code: 68526

Show Postal Code Layer in Map

View

Area of Interest Interactive Map

Legend

View Extent: Continental U.S. | Scale: 1:35,100,000 ± 1 %



0 875.5mi

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

View by Street Address

USDA United States Department of Agriculture
Natural Resources Conservation Service

Web Soil Survey

Contact Us | Download Soils Data | Archived Soil Surveys | Preferences | Logout | Help

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

Quick Navigation

Navigate By...

Address

View

Address: 11000 rocky ridge rd

City:

State:

Zip Code: 68526

Show Postal Code Layer in Map

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: Continental U.S. Scale: 1:11,400 ± 1 %

0 1163ft

Manage Displayed Data Layers

The screenshot displays the USDA Web Soil Survey interface. At the top, there is a navigation bar with links for 'Contact Us', 'Download Soils Data', 'Archived Soil Surveys', 'Preferences', 'Logout', and 'Help'. Below this is a secondary navigation bar with tabs for 'Area of Interest (AOI)', 'Soil Map', 'Soil Data Explorer', and 'Shopping Cart'. The main content area is divided into three sections: a 'Quick Navigation' sidebar on the left, a 'Legend' window in the center, and an 'Area of Interest Interactive Map' on the right. The 'Legend' window is titled 'Map Legend' and lists various data layers with checkboxes. A large teal arrow points to the 'Municipalities' section, which is currently checked. The 'Area of Interest Interactive Map' shows a grayscale aerial view of a rural area with several roads labeled, including Ellenridge Rd, Prairie Rim Rd, Aspen Canyon Rd, Rocky Ridge Rd, Deep Valley Rd, Pine Lake Rd, S 12th St, and S 120th St. The map includes a scale of 1:12,000 and a scale bar showing 0 to 1217 feet. At the bottom of the page, there is a footer with links for 'Privacy Policy', 'Non-Discrimination Statement', 'Information Quality', 'USA.gov', and 'White House Authority'.

- Turn layers on or off by checking or unchecking box at left

Navigate to AOI by County

USDA United States Department of Agriculture
Natural Resources Conservation Service

Web Soil Survey

Contact Us | Download Soils Data | Archived Soil Surveys | Preferences | Logout | Help

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

Quick Navigation

Navigate By...

Address

State and County

View

State: Nebraska

County (optional): Lancaster

View

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: Continental U.S.

Scale: 1:611,000 ± 1%

0 11.8mi

Navigate by Soil Survey Area

USDA United States Department of Agriculture
Natural Resources Conservation Service

Web Soil Survey

Contact Us | Download Soils Data | Archived Soil Surveys | Preferences | Logout | Help

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

Quick Navigation

Navigate By...

Address

State and County

Soil Survey Area

View Set AOI

State: Nebraska

County (optional):

Soil Survey Area: Lancaster County, Nebraska

Show Soil Survey Areas Layer in Map

View Set AOI

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: Continental U.S. Scale: 1:656,000 ± 1 %

The map displays Lancaster County, Nebraska, with various soil survey areas labeled, including Butler, Ulysses, Dwight, Saunders County, Nebraska, Ashland, Springfield, Bee, Agnew, Davey, Cass County, Nebraska, Staplehurst, Garland, Malcolm, Waverly, Alvo, Cass, Eagle, Avoca, Seward County, Nebraska, Milford, Lancaster County, Nebraska, Otoe, Otoe County, Nebraska, Roca, Bennet, Panama, Avoca, Cordova, Seward, Saline County, Nebraska, Kramer, Firth, Otoe, Otoe County, Nebraska, Saline, Saline, Wilber, Gage County, Nebraska, Johnson County, Nebraska, and Firth. Major roads are shown, including 15, 79, 83, 1, 50, 128, 33, 103, and 43. A scale bar indicates 12.6 miles.

Navigate by Latitude and Longitude

choose decimal degrees, or degrees, minutes and seconds

The screenshot shows a web application interface with the following components:

- Area of Interest (AOI)** tab selected.
- Quick Navigation** sidebar with "Navigate By..." options: Address, State and County, Soil Survey Area, **Latitude and Longitude** (selected), PLSS (Section, Township, Range), Bureau of Land Management, Department of Defense, Forest Service, National Park Service, and Hydrologic Unit.
- Latitude and Longitude** section with input fields: Latitude Decimal Degrees (40.8247) and Longitude Decimal Degrees (-96.7778). A teal arrow points from the text box to the longitude field.
- Area of Interest Interactive Map** section with a legend, navigation tools, and a map showing a location in Lancaster, Nebraska. A teal arrow points from the text box to the map location.
- Map** showing a satellite view of a rural area with streets labeled: W HOLDREGE ST, Lancaster, NW 40TH ST, and W VINE ST. A scale bar indicates 0 to 1216ft.

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

Location marker

FOIA | Accessibility Statement | Privacy Policy | Non-Discrimination Statement | Information Quality | USA.gov | White House

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

USDA United States Department of Agriculture
Natural Resources Conservation Service

Web Soil Survey

Contact Us | Download Soils Data | Archived Soil Surveys | Preferences | Logout | Help

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

Quick Navigation

Navigate By...

- Address
- State and County
- Soil Survey Area
- Latitude and Longitude
- PLSS (Section, Township, Range)**

[View ?](#)

State:

Principal Meridian: [View Meridian Map](#)

Section:

Township: North South

Range: East West

Show **Public Land Survey** Layer in Map

[View](#)

Bureau of Land Management

Area of Interest Interactive Map

Legend

View Extent: Scale: ± 1 %

0 30 1874ft

Zoom In Tool – expanding rectangle

United States Department of Agriculture
Natural Resources Conservation Service

Web Soil Survey

Contact Us | Download Soils Data | Preferences | Logout | Help

Area of Interest | Soil Map | Soil Data Explorer

Quick Navigation

Navigate By...

Address

County

Soil Survey Area

Latitude and Longitude

PLSS (Township and Range)

View

State: Nebraska

Principal Meridian: Sixth Principal
View Meridian Map

Township: 9 North

Range: 7 East

Show Township and Range Layer in Map

View

Hydrologic Unit

Area of Interest Interactive Map

Layers

Legend

View Extent: Continental U.S.

Scale: 1:23,600 ±1%

0 2814ft

Define AOI

- Remember - you must specifically set the AOI before you can view any maps or data.
 - Use one of the AOI buttons on toolbar
 - Expanding rectangle
 - Multi-sided polygon
 - Select the area by choosing a Soil Survey Area, then clicking the Set AOI button.

Define AOI – draw rectangle

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

Quick Navigation

Navigate By...

- Address
- State and County
- Soil Survey Area

Latitude and Longitude

Use Degrees/Minutes/Seconds View ?

Latitude

Decimal Degrees

Longitude

Decimal Degrees

Use Degrees/Minutes/Seconds View

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 Continental U.S. Scale (not to scale)



0 1216ft

FOIA | Accessibility Statement | Privacy Policy | Non-Discrimination Statement | Information Quality | USA.gov | White House

Selected AOI

Area of Interest Interactive Map

Legend

View Extent Continental U.S. Scale (not to scale)

W HOLDREGE ST

NW 48TH ST

Lancaster

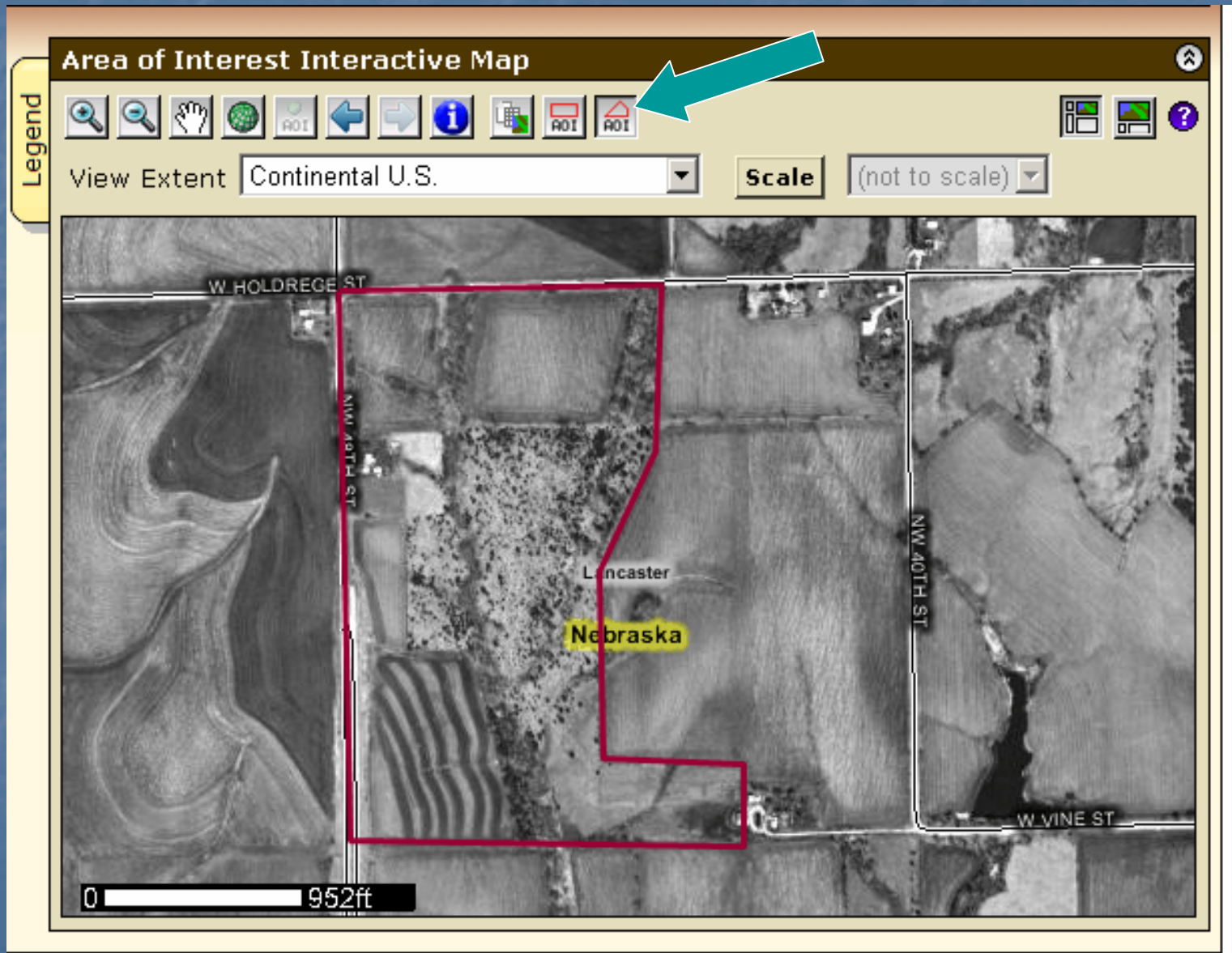
Nebraska

NW 40TH ST

W VINE ST

0 952ft

Define AOI – multi-sided polygon



Selected AOI

Area of Interest Interactive Map

Legend

View Extent: Continental U.S. Scale: (not to scale)

W HOLDREGE ST

NW 48TH ST

Lancaster

Nebraska

NW 40TH ST

W VINE ST

0 939ft

Explicitly clear the AOI

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

Area of Interest Properties

Clear AOI

AOI Information

Name:

Map Unit Symbols

- Use Soil Survey Area Map Unit Symbols
- Use National Map Unit Symbols

Area (acres): 85.7

Soil Data Available from Web Soil Survey

Lancaster County, Nebraska (NE109)

| | |
|-----------|-------------------------|
| Soil Maps | Version 3, Aug 30, 2006 |
| Soil Data | Version 7, Aug 30, 2006 |

Clear AOI

Quick Navigation

Navigate By...

- Address
- State and County

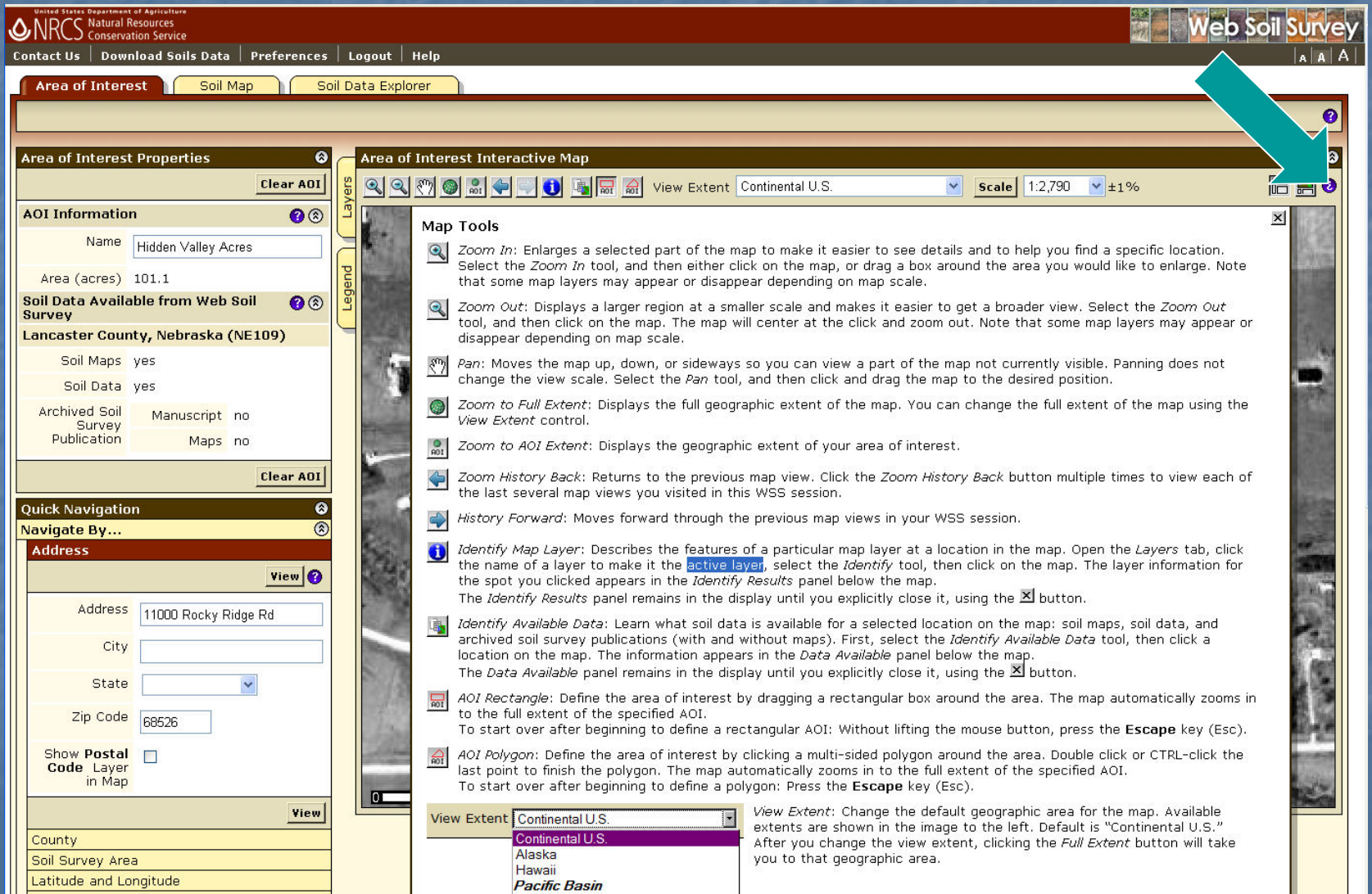
Area of Interest Interactive Map

Legend

View Extent: Continental U.S. | Scale: (not to scale)

Map showing Lancaster, Nebraska with an Area of Interest (AOI) highlighted in cyan hatching. The map includes a scale bar (0 to 939ft) and navigation tools.

AOI Interactive Map - Help



The screenshot displays the Web Soil Survey interface. At the top, the header includes the NRCS logo and navigation links: Contact Us, Download Soils Data, Preferences, Logout, and Help. The main navigation bar features tabs for Area of Interest, Soil Map, and Soil Data Explorer. A teal arrow points to a help icon (question mark) in the top right corner of the map area.

Area of Interest Properties

AOI Information

Name: Hidden Valley Acres
Area (acres): 101.1

Soil Data Available from Web Soil Survey

Lancaster County, Nebraska (NE109)

| | |
|----------------------------------|--------------------------|
| Soil Maps | yes |
| Soil Data | yes |
| Archived Soil Survey Publication | Manuscript no Maps no |

Quick Navigation

Navigate By...

Address

Address: 11000 Rocky Ridge Rd
City:
State:
Zip Code: 68526
 Show Postal Code Layer in Map

Area of Interest Interactive Map

View Extent: Continental U.S. | Scale: 1:2,790 ±1%

Map Tools

- Zoom In:** Enlarges a selected part of the map to make it easier to see details and to help you find a specific location. Select the *Zoom In* tool, and then either click on the map, or drag a box around the area you would like to enlarge. Note that some map layers may appear or disappear depending on map scale.
- Zoom Out:** Displays a larger region at a smaller scale and makes it easier to get a broader view. Select the *Zoom Out* tool, and then click on the map. The map will center at the click and zoom out. Note that some map layers may appear or disappear depending on map scale.
- Pan:** Moves the map up, down, or sideways so you can view a part of the map not currently visible. Panning does not change the view scale. Select the *Pan* tool, and then click and drag the map to the desired position.
- Zoom to Full Extent:** Displays the full geographic extent of the map. You can change the full extent of the map using the *View Extent* control.
- Zoom to AOI Extent:** Displays the geographic extent of your area of interest.
- Zoom History Back:** Returns to the previous map view. Click the *Zoom History Back* button multiple times to view each of the last several map views you visited in this WSS session.
- History Forward:** Moves forward through the previous map views in your WSS session.
- Identify Map Layer:** Describes the features of a particular map layer at a location in the map. Open the *Layers* tab, click the name of a layer to make it the **active layer**, select the *Identify* tool, then click on the map. The layer information for the spot you clicked appears in the *Identify Results* panel below the map. The *Identify Results* panel remains in the display until you explicitly close it, using the button.
- Identify Available Data:** Learn what soil data is available for a selected location on the map: soil maps, soil data, and archived soil survey publications (with and without maps). First, select the *Identify Available Data* tool, then click a location on the map. The information appears in the *Data Available* panel below the map. The *Data Available* panel remains in the display until you explicitly close it, using the button.
- AOI Rectangle:** Define the area of interest by dragging a rectangular box around the area. The map automatically zooms in to the full extent of the specified AOI. To start over after beginning to define a rectangular AOI: Without lifting the mouse button, press the **Escape** key (Esc).
- AOI Polygon:** Define the area of interest by clicking a multi-sided polygon around the area. Double click or CTRL-click the last point to finish the polygon. The map automatically zooms in to the full extent of the specified AOI. To start over after beginning to define a polygon: Press the **Escape** key (Esc).

View Extent: Continental U.S. | Continental U.S. | Alaska | Hawaii | Pacific Basin

View Extent: Change the default geographic area for the map. Available extents are shown in the image to the left. Default is "Continental U.S.," After you change the view extent, clicking the *Full Extent* button will take you to that geographic area.

View Soil Map

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

Area of Interest Properties Clear AOI

AOI Information

Name

Map Unit Symbols

- Use Soil Survey Area Map Unit Symbols
- Use National Map Unit Symbols

Area (acres) 167.1

Soil Data Available from Web Soil Survey

Lancaster County, Nebraska (NE109)

| | |
|-----------|-------------------------|
| Soil Maps | Version 3, Aug 30, 2006 |
| Soil Data | Version 7, Aug 30, 2006 |

Clear AOI

Area of Interest Interactive Map

Legend

View Extent: Continental U.S. | Scale: (not to scale)

W HOLDREGE ST

NW 48TH ST

Lancaster

Nebraska

NW 40TH ST

W VINE ST

0 943ft

- Click Soil Map tab

Soil Map

USDA United States Department of Agriculture
Natural Resources Conservation Service

Web Soil Survey

Contact Us | Download Soils Data | Archived Soil Surveys | Preferences | Logout | Help

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

Printable Version | Add to Shopping Cart

Map Unit Legend

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|-----------------|--|--------------|----------------|
| BpF | Burchard-Nodaway complex, 2 to 30 percent slopes | 0.5 | 0.3% |
| BrD | Burchard clay loam, 6 to 11 percent slopes | 6.5 | 3.9% |
| No | Nodaway silt loam, 0 to 2 percent slopes | 4.2 | 2.5% |
| ShC | Aksarben silty clay loam, 2 to 5 percent slopes | 14.8 | 8.9% |
| ShD | Aksarben silty clay loam, 6 to 11 percent slopes | 11.8 | 7.0% |

Soil Map

Legend

Scale (not to scale)

W HOLDREGE ST

BrD

WtC2

ShD

No

W VINE ST

0 943ft

View Map Unit Description

The screenshot shows a web application interface. On the left is a 'Map Unit Legend' table for Lancaster County, Nebraska. A teal arrow points from the 'BpF' row in the legend to the 'Information' window. The 'Information' window displays the following details for the BpF map unit:

Information

Map Unit Description

Lancaster County, Nebraska

BpF—Burchard-Nodaway complex, 2 to 30 percent slopes

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

Burchard and similar soils: 55 percent
Nodaway, frequently flooded, and similar soils: 45 percent

Description of Burchard

Setting

Landform: Hillslopes
Parent material: Calcareous till

Properties and qualities

Slope: 15 to 30 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.20 to 2.00 in/hr)

The background shows a map with a legend and a search bar. The map unit 'BrD' is highlighted on the map. The legend table is as follows:

| Map Unit Symbol | Map Unit Name | Area |
|-----------------|--|------|
| BpF | Burchard-Nodaway complex, 2 to 30 percent slopes | |
| BrD | Burchard clay loam, 6 to 11 percent slopes | |
| No | Nodaway silt loam, 0 to 2 percent slopes | |
| ShC | Aksarben silty clay loam, 2 to 5 percent slopes | |
| ShD | Aksarben silty clay loam, 5 to 9 percent slopes | |
| WtC2 | Wymore silty clay loam, 3 to 10 percent slopes | |

- Click on map unit name at left to view map unit description report

Explore Soil Information

USDA United States Department of Agriculture
Natural Resources Conservation Service

Web Soil Survey

Contact Us Download Soils Data Archived Soil Surveys Preferences Help

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

Printable Version Add to Shopping Cart

Map Unit Legend

| Lancaster County, Nebraska (NE109) | | | |
|------------------------------------|--|--------------|----------------|
| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
| BpF | Burchard-Nodaway complex, 2 to 30 percent slopes | 0.5 | 0.3% |
| BrD | Burchard clay loam, 6 to 11 percent slopes | 6.5 | 3.9% |
| No | Nodaway silt loam, 0 to 2 percent slopes | 4.2 | 2.5% |
| ShC | Aksarben silty clay loam, 2 to 5 percent slopes | 14.8 | 8.9% |
| ShD | Aksarben silty | 11.8 | 7.0% |

Soil Map

Legend

Scale (not to scale)

W. HOLDREGE ST

BrD

WtG2

ShD

No

W. VINE ST

0 943ft

Soil Data Explorer Features

- Filter the soil information by land use category
- Learn the terminology and concepts of soils and specific land uses
- View interpretive soil data and soil properties in the form of thematic maps, tables, and text description
- Access ecological site information
- Print individual maps and reports
- Add content to Shopping Cart

Soil Data Explorer - Help

The screenshot displays the USDA Web Soil Survey interface. At the top, the USDA logo and "Natural Resources Conservation Service" are visible. Navigation links include "Contact Us", "Download Soils Data", "Archived Soil Surveys", "Preferences", "Logout", and "Help". The main navigation bar features tabs for "Area of Interest (AOI)", "Soil Map", "Soil Data Explorer" (which is active), and "Shopping Cart". Below this, a dropdown menu for "View Soil Information By Use:" is set to "All Uses". To the right are buttons for "Printable Version" and "Add to Shopping Cart".

The "Soil Data Explorer" tab is open, showing a "Suitabilities and Limitations for Use" section with a list of categories: Building Site Development, Construction Materials, Land Classifications, Land Management, Recreational Development, Sanitary Facilities, Vegetative Productivity, Waste Management, and Water Management. A "Soil Map" section is also visible.

A help window titled "2 View/Explore." is overlaid on the right side. It contains the following text:

2 View/Explore.

The second step in using Web Soil Survey is to explore all of the available information about your area of interest.

The Soil Data Explorer tab provides several ways of getting the information you need.

Finding relevant information

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

The help window also includes a small thumbnail of the "Soil Data Explorer" interface and a dropdown menu showing the "View Soil Information By Use:" options: All Uses, Cropland, Forestland, Hayland/Pastureland, Horticulture, and Rangeland.

A red arrow points to the "Add to Shopping Cart" button in the top right corner of the interface.

Soil Data Explorer - Intro

The screenshot displays the USDA Web Soil Survey interface. At the top, the USDA logo and 'United States Department of Agriculture' are visible, along with the 'Natural Resources Conservation Service' text. The main navigation bar includes links for 'Contact Us', 'Download Soils Data', 'Archived Soil Surveys', 'Preferences', 'Logout', and 'Help'. Below this, there are tabs for 'Area of Interest (AOI)', 'Soil Map', 'Soil Data Explorer' (which is currently selected), and 'Shopping Cart'. A dropdown menu for 'View Soil Information By Use:' is set to 'All Uses'. To the right of this dropdown are buttons for 'Printable Version' and 'Add to Shopping Cart'. Below the navigation bar, there are four sub-sections: 'Intro to Soils' (selected), 'Suitabilities and Limitations for Use', 'Soil Properties and Qualities', and 'Soil Reports'. On the left side, a 'Table of Contents' panel is open, showing a hierarchical list of topics with checkboxes. A 'View Selected Topics' button is located at the top of this panel.

USDA United States Department of Agriculture
Natural Resources Conservation Service

Web Soil Survey

Contact Us | Download Soils Data | Archived Soil Surveys | Preferences | Logout | Help

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

View Soil Information By Use: All Uses [v] Printable Version Add to Shopping Cart [?]

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

Table of Contents [?] [^]

View Selected Topics [?]

- All Uses
 - Introduction to Soils
 - Soils 101
 - What is soil? (less technical)
 - What is soil? (more technical)
 - How does soil form?
 - Parent Material
 - Climate
 - Living organisms
 - Landscape position
 - Time
 - What are soil horizons?
 - What is a soil scientist?
 - What is a soil survey?
 - Who uses a soil survey?
 - What is a map unit?
 - What is a consociation, complex,

Soil Data Explorer - Intro

USDA United States Department of Agriculture
Natural Resources Conservation Service

Web Soil Survey

Contact Us | Download Soils Data | Archived Soil Surveys | Preferences | Logout | Help

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

View Soil Information By Use: All Uses [Printable Version](#) [Add to Shopping Cart](#)

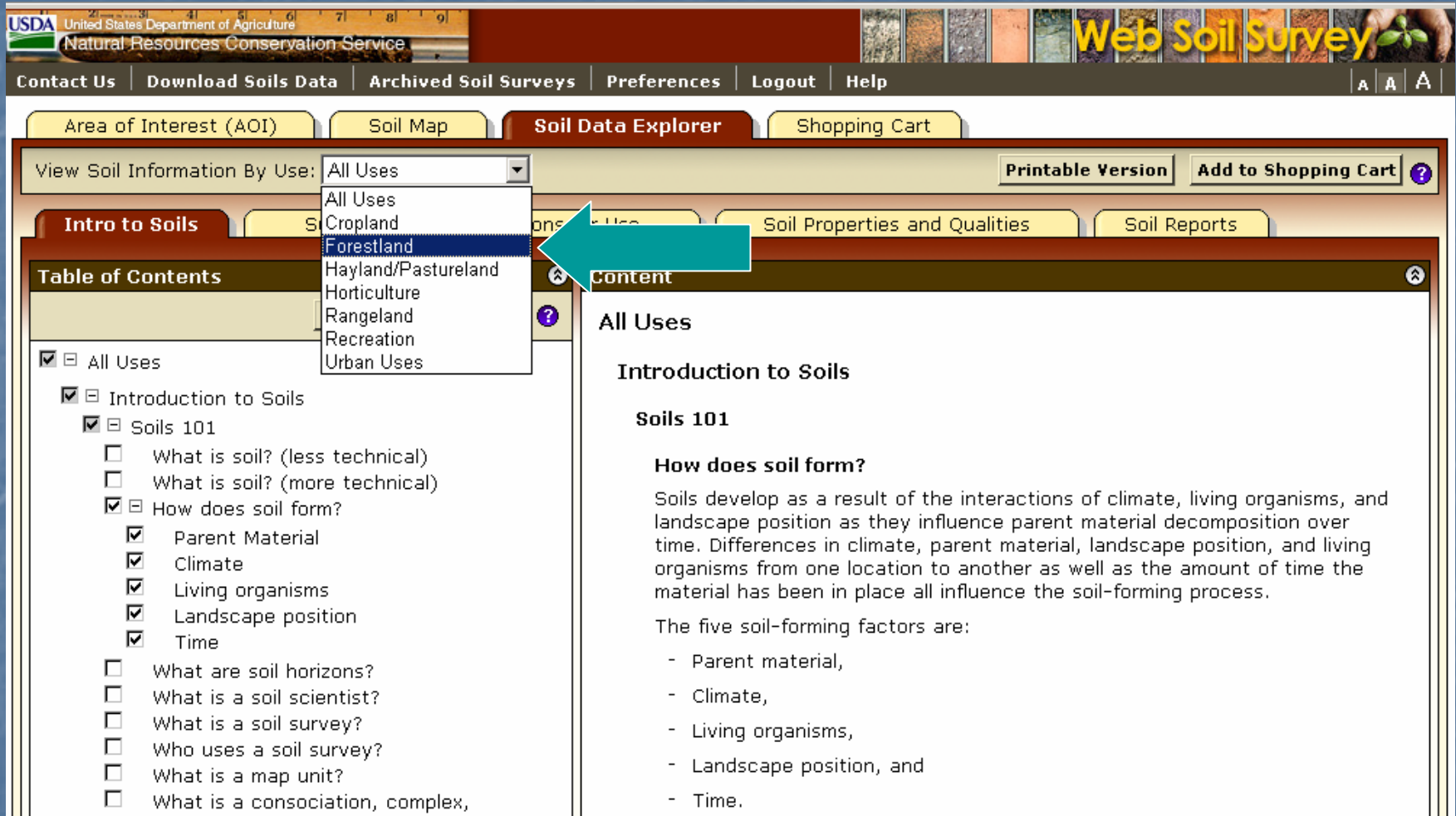
Intro to Soils | Suitabilities and Limitations for Use | Soil Properties and Qualities | Soil Reports

Table of Contents [View Selected Topics](#)

- All Uses
 - Introduction to Soils
 - Soils 101
 - What is soil? (less technical)
 - What is soil? (more technical)
 - How does soil form?
 - Parent Material
 - Climate
 - Living organisms
 - Landscape position
 - Time
 - What are soil horizons?
 - What is a soil scientist?
 - What is a soil survey?
 - Who uses a soil survey?
 - What is a map unit?
 - What is a consociation, complex,

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

Filter Information by Land Use



The screenshot shows the USDA Web Soil Survey interface. At the top, there is a navigation bar with links for 'Contact Us', 'Download Soils Data', 'Archived Soil Surveys', 'Preferences', 'Logout', and 'Help'. Below this is a secondary navigation bar with tabs for 'Area of Interest (AOI)', 'Soil Map', 'Soil Data Explorer', and 'Shopping Cart'. The 'Soil Data Explorer' tab is active. On the left side, there is a 'Table of Contents' section with a tree view of content. A dropdown menu is open, showing a list of land uses: 'All Uses', 'Cropland', 'Forestland', 'Hayland/Pastureland', 'Horticulture', 'Rangeland', 'Recreation', and 'Urban Uses'. A teal arrow points to the 'Forestland' option. The main content area displays 'All Uses' and 'Introduction to Soils'. The 'Introduction to Soils' section includes a sub-section 'Soils 101' with a heading 'How does soil form?'. Below this heading, there is a list of soil-forming factors: Parent material, Climate, Living organisms, Landscape position, and Time.

- Select a specific land use from drop down list to filter content on the Soil Data Explorer tab.

Forestland Information

View Soil Information By Use: [Printable Version](#) [Add to Shopping Cart](#) ?

[Intro to Forestland](#) [Suitabilities and Limitations for Use](#) [Soil Properties and Qualities](#) [Ecological Site Assessment](#) [Soil Reports](#)

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?

List of topics narrowed to those related to Forestland.

Shopping Cart

The screenshot displays the USDA Web Soil Survey interface. At the top, the USDA logo and "United States Department of Agriculture" are visible, along with the "Natural Resources Conservation Service" logo. A navigation bar includes links for "Contact Us", "Download Soils Data", "Archived Soil Surveys", "Preferences", "Logout", and "Help". Below this, a secondary navigation bar features tabs for "Area of Interest (AOI)", "Soil Map", "Soil Data Explorer", and "Shopping Cart". The "Shopping Cart" tab is highlighted, and a teal arrow points to the "Add to Shopping Cart" button in the top right corner of the main content area. The main content area is divided into two panels: "Table of Contents" on the left and "Content" on the right. The "Table of Contents" panel shows a tree view of topics, with "All Uses" selected. The "Content" panel displays the text for "All Uses", including an "Introduction to Soils" section and a "Soils 101" section with a "How does soil form?" subsection. The "Add to Shopping Cart" button is located in the top right corner of the main content area, next to a "Printable Version" button.

- Any material displayed in right-hand panel (intro text, maps, tables, etc) can be added to the Shopping Cart for later retrieval. All added content is bundled into a single PDF file for download or printing.

Suitabilities and Limitations

The screenshot displays the 'Soil Data Explorer' web application. The main navigation bar includes 'Area of Interest (AOI)', 'Soil Map', 'Soil Data Explorer', and 'Shopping Cart'. Below this, a dropdown menu shows 'View Soil Information By Use: All Uses', with buttons for 'Printable Version' and 'Add to Shopping Cart'. The secondary navigation bar features 'Intro to Soils', 'Suitabilities and Limitations for Use' (the active tab), 'Soil Properties and Qualities', and 'Soil Reports'.

The 'Suitabilities and Limitations Ratings' panel on the left is expanded to show 'Dwellings with Basements' in red. Other categories include 'Building Site Development' with sub-items 'Corrosion of Concrete' and 'Corrosion of Steel'. The 'View Options' section has checkboxes for 'Map', 'Table', 'Component Breakdown and Rating Reasons', 'Rating Values (Numbers)', 'Description of Rating', and 'Rating Options'. The 'Advanced Options' section includes a 'Detailed Description' checkbox. 'View Description' and 'View Rating' buttons are present at the bottom of the panel.

The 'Soil Map' panel on the right shows an aerial map with a cyan bounding box around a specific area. The map includes a legend, navigation tools, a scale of '963ft', and labels for 'W HOLDREGE ST' and 'W VINE ST'. Soil types are labeled as 'ShD', 'No', and 'WIC2'. A teal arrow points from the 'Dwellings with Basements' category in the left panel to the map area.

- Display a variety of interpretations as a thematic map.
- Open a category folder, then select desired interpretation. Click View Rating

Display Interpretive Map

The screenshot displays the Soil Data Explorer interface. A teal arrow points to the 'Legend' tab in the map legend window. The map shows a red area labeled 'Dwellings with Basements' with various soil units overlaid. A scale bar indicates 963ft. Below the map is a table titled 'Tables - Dwellings with Basements - Summary By Map Unit'.

Map Legend

- Area of Interest (AOI)
 - Area of Interest (AOI)
- Soils
 - Soil Survey Areas
 - Soil Map Units
 - Soil Ratings
 - Very limited
 - Somewhat limited
 - Not limited
 - Not rated or not available
 - Special Point Features
 - Special Line Features
- Political Features
 - Postal Code
 - Public Land Survey
 - Township and Range
 - Section

Tables - Dwellings with Basements - Summary By Map Unit

Summary by Map Unit - Lancaster County, Nebraska

| Map unit symbol | Map unit name | Rating | Component name (percent) | Rating reasons (rating values) | Acres in AOI | Percent of AOI |
|-----------------|---------------|--------------|--------------------------|--------------------------------|--------------|----------------|
| BoF | Burchard- | Very limited | Burchard (55%) | Slope (1,00) | 0.5 | 0.3% |

- Click Legend tab to display map legend. Table below map shows rating and limiting features of each soil in Summary Report.

Summary Report

Tables — Dwellings with Basements — Summary By Map Unit

Summary by Map Unit — Lancaster County, Nebraska

| Map unit symbol | Map unit name | Rating | Component name (percent) | Rating reasons (rating values) | Acres in AOI | Percent of AOI |
|-----------------|--|------------------|-------------------------------------|---|--------------|----------------|
| BpF | Burchard-Nodaway complex, 2 to 30 percent slopes | Very limited | Burchard (55%) | Slope (1.00) | 0.5 | 0.3% |
| | | | Nodaway, frequently flooded (45%) | Flooding (1.00) Depth to saturated zone (0.35) | | |
| BrD | Burchard clay loam, 6 to 11 percent slopes | Somewhat limited | Burchard (100%) | Slope (0.04) | 6.5 | 3.9% |
| No | Nodaway silt loam, 0 to 2 percent slopes | Very limited | Nodaway, occasionally flooded (95%) | Flooding (1.00) | 4.2 | 2.5% |
| | | | | Depth to saturated zone (0.35) | | |
| | | | Colo, occasionally flooded (5%) | Flooding (1.00) | | |
| | | | | Depth to saturated zone (1.00) Shrink-swell (0.50) | | |
| ShC | Aksarben silty clay loam, 2 to 5 percent slopes | Very limited | Aksarben (100%) | Shrink-swell (1.00) | 14.8 | 8.9% |
| ShD | Aksarben silty clay loam, 2 to 5 percent slopes | Very limited | Aksarben (100%) | Shrink-swell (1.00) | 11.8 | 7.0% |

Interpretation Description and Rating Options

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

USDA United States Department of Agriculture
Natural Resources Conservation Service

Web Soil Survey

Contact Us | Download Soils Data | Archived Soil Surveys | Preferences | Logout | Help

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

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** | Soil Reports

Properties and Qualities Ratings

Open All Close All

- Soil Chemical Properties
- Soil Erosion Factors
- Soil Physical Properties
- Soil Qualities and Features
- Water Features

Soil Map

Legend

Scale (not to scale)

W HOLDREGE ST

W VINE ST

0 966ft

The soil map displays an aerial photograph with overlaid soil boundaries. The soil types are labeled as follows: WtC2 (two locations), SHD (one location), No (one location), and BtD (one location). The map is bounded by W HOLDREGE ST to the north and W VINE ST to the south. A scale bar at the bottom left indicates a distance of 966 feet.

Select Property or Quality

USDA United States Department of Agriculture
Natural Resources Conservation Service

Web Soil Survey

Contact Us | Download Soils Data | Archived Soil Surveys | Preferences | Logout | Help

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

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** | Soil Reports

Properties and Qualities Ratings

Open All Close All

- Soil Chemical Properties
- Soil Erosion Factors
- Soil Physical Properties
- Soil Qualities and Features**

- Depth to a Selected Soil Restrictive Layer
- Depth to Any Soil Restrictive Layer
- Drainage Class**

View Description View Rating

View Options

- Map
- Table
- Description of Rating
- Rating Options
- Detailed Description

Advanced Options

Aggregation Dominant Condition

Soil Map

Legend

Scale (not to scale)

0 968ft

A teal arrow points from the 'Drainage Class' section of the left sidebar to the 'Soil Map' window.

Display Results



Tables — Drainage Class — Summary By Map Unit

Summary by Map Unit — Lancaster County, Nebraska

| Map unit | Map unit name | Rating | Acres in | Percent of AOI |
|----------|---------------|--------|----------|----------------|
|----------|---------------|--------|----------|----------------|

Tables — Drainage Class — Summary By Map Unit



Summary by Map Unit — Lancaster County, Nebraska



| Map unit symbol | Map unit name | Rating | Acres in AOI | Percent of AOI |
|--|---|-------------------------|--------------|----------------|
| BpF | Burchard-Nodaway complex, 2 to 30 percent slopes | Well drained | 0.5 | 0.3% |
| BrD | Burchard clay loam, 6 to 11 percent slopes | Well drained | 6.5 | 3.9% |
| No | Nodaway silt loam, 0 to 2 percent slopes | Moderately well drained | 4.2 | 2.5% |
| ShC | Aksarben silty clay loam, 2 to 5 percent slopes | Well drained | 14.8 | 8.9% |
| ShD | Aksarben silty clay loam, 5 to 9 percent slopes | Well drained | 11.8 | 7.0% |
| WtC2 | Wymore silty clay loam, 3 to 7 percent slopes, eroded | Moderately well drained | 97.3 | 58.2% |
| WtD3 | Otoe silty clay, 5 to 9 percent slopes, eroded | Moderately well drained | 32.1 | 19.2% |
| Totals for Area of Interest (AOI) | | | 167.1 | 100.0% |

Change Land Uses

The screenshot displays the USDA Web Soil Survey interface. At the top, the USDA logo and "United States Department of Agriculture Natural Resources Conservation Service" are visible. The main navigation bar includes "Contact Us", "Download Soils Data", "Archived Soil Surveys", "Preferences", "Logout", and "Help". Below this, a secondary navigation bar features "Area of Interest (AOI)", "Soil Map", "Soil Data", and "Shopping Cart". A dropdown menu for "View Soil Information By Use:" is set to "Rangeland", with a teal arrow pointing to it. To the right of this menu are "Printable Version" and "Add to Shopping Cart" buttons. A third navigation bar contains "Intro to Rangeland", "Suitabilities and Limitations for Use" (highlighted in red), "Soil Properties and Qualities", "Ecological Site Assessment", and "Soil Reports". A teal arrow labeled "Tabs change" points to this bar. On the left, a "Suitabilities and Limitations Ratings" panel is expanded, showing a list of categories with expand/collapse icons: Building Site Development, Construction Materials, Land Classifications, Land Management, Recreational Development, Sanitary Facilities, Vegetative Productivity, Waste Management, and Water Management. A teal arrow labeled "List changes according to land use" points to this list. The main content area is titled "Soil Map" and features a map of a field with various soil types outlined in yellow. The map includes a legend, navigation tools, a scale bar (0 to 969ft), and a scale dropdown set to "(not to scale)".

Ecological Site Name Map

USDA United States Department of Agriculture
Natural Resources Conservation Service

Web Soil Survey

Contact Us | Download Soils Data | Archived Soil Surveys | Preferences | Logout | Help

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

View Soil Information By Use: Rangeland Printable Version Add to Shopping Cart

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

Suitabilities and Limitations Ratings

Open All Close All

Building Site Development

Construction Materials

Land Classifications

Conservation Tree and Shrub Group

Ecological Site ID

Ecological Site Name

View Description View Rating

View Options

Map

Table

Description of Rating

Rating Options

Detailed Description

Basic Options

Class NRCs Rangeland Site

Advanced Options

View Description View Rating

Map — Ecological Site Name: NRCs Rangeland Site

Legend

Scale (not to scale)

Tables — Ecological Site Name: NRCs Rangeland Site — Summary By Map Unit

Summary by Map Unit — Lancaster County, Nebraska

| Map unit symbol | Map unit name | Rating | Acres in AOI | Percent of AOI |
|-----------------|---------------|-------------------|--------------|----------------|
| BnE | Burchard- | Silty NE 8, Loamy | 0.3 | 0.2% |

Ecological Site Assessment

USDA United States Department of Agriculture
Natural Resources Conservation Service

Web Soil Survey

Contact Us | Download Soils Data | Archived Soil Surveys | Preferences | Logout | Help

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

View Soil Information By Use: Rangeland Printable Version Add to Shopping Cart

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

Ecological Sites

Open All Close All

All Ecological Sites

View All Ecological Sites Info

View Options

Dominant Ecological Site Map

Ecological Sites by Map Unit Component Table

View All Ecological Sites Info

R106XY068NE — Silty Overflow - Veg. zone 4

R106XY074NE — Clayey - Veg. zone 4

R106XY075NE — Silty,NE & Loamy Upland,KS - under development

Map — Dominant Ecological Site

Legend Scale (not to scale)

Table — Ecological Sites by Map Unit Component

Lancaster County, Nebraska

| Map unit symbol | Component name (percent) | Ecological site | Acres in AOI | Percent of AOI |
|-----------------|--------------------------|--|--------------|----------------|
| BpF | Burchard (55%) | R106XY075NE — Silty,NE & Loamy Upland,KS - under development | 0.3 | 0.2% |
| | Nodaway (45%) | R106XY068NE — Silty Overflow - Veg. zone 4 | | |

View Soil Data Reports

The screenshot displays the USDA Web Soil Survey interface. At the top, the USDA logo and 'Natural Resources Conservation Service' are visible. The main navigation bar includes 'Contact Us', 'Download Soils Data', 'Archived Soil Surveys', 'Preferences', 'Logout', and 'Help'. Below this, the 'Soil Data Explorer' tab is selected, with other tabs for 'Area of Interest (AOI)', 'Soil Map', and 'Shopping Cart'. A dropdown menu shows 'View Soil Information By Use: All Uses'. A teal arrow points to the 'Add to Shopping Cart' button. The 'Soil Reports' section is active, showing a list of report categories such as 'AOI Inventory', 'Building Site Development', 'Construction Materials', 'Land Classifications', 'Land Management', 'Recreational Development', 'Sanitary Facilities', 'Soil Chemical Properties', 'Chemical Soil Properties', 'Options', 'Soil Erosion', 'Soil Physical Properties', 'Soil Qualities and Features', 'Vegetative Productivity', 'Waste Management', 'Water Features', and 'Water Management'. A teal arrow points to the 'View Soil Report' button for 'Chemical Soil Properties'. The 'Soil Map' section shows an aerial view with soil boundaries and labels like 'W HOLDREGE ST', 'W VINE ST', 'NW 40TH ST', 'WIC2', 'WID3', 'ShD', and 'No'. A scale bar indicates 0 to 989ft.

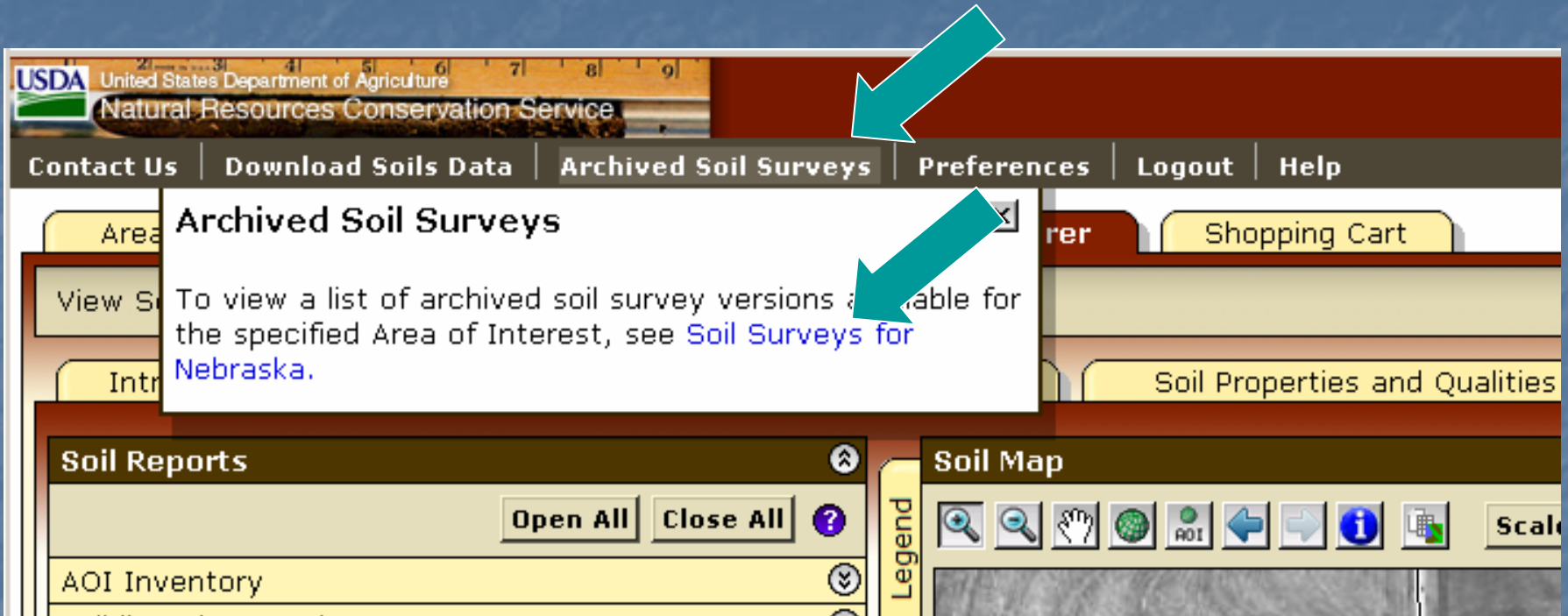
Chemical Soil Properties Report

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> | |
| BpF—Burchard-Nodaway complex, 2 to 30 percent slopes | | | | | | | | |
| Burchard | 0-8 | 15-25 | — | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 8-33 | 15-25 | — | 6.1-7.3 | 0 | 0 | 0 | 0 |
| | 33-60 | 15-25 | — | 7.4-8.4 | 5-10 | 0 | 0 | 0 |
| Nodaway, frequently flooded | 0-7 | 15-30 | — | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 7-60 | 10-25 | — | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| BrD—Burchard clay loam, 6 to 11 percent slopes | | | | | | | | |
| Burchard | 0-8 | 15-25 | — | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 8-33 | 15-25 | — | 6.1-7.3 | 0 | 0 | 0 | 0 |
| | 33-60 | 15-25 | — | 7.4-8.4 | 5-10 | 0 | 0 | 0 |
| No—Nodaway silt loam, 0 to 2 percent slopes | | | | | | | | |
| Nodaway, occasionally flooded | 0-7 | 20-25 | — | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 7-60 | 20-25 | — | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ShC—Aksarben silty clay loam, 2 to 5 percent slopes | | | | | | | | |
| Aksarben | 0-7 | 25-35 | — | 5.1-6.5 | 0 | 0 | 0 | 0 |

Access Archived Soil Survey Publications



The screenshot shows the USDA Natural Resources Conservation Service website. The top navigation bar includes links for 'Contact Us', 'Download Soils Data', 'Archived Soil Surveys', 'Preferences', 'Logout', and 'Help'. A teal arrow points to the 'Archived Soil Surveys' link. Below the navigation bar, a tooltip titled 'Archived Soil Surveys' is displayed, containing the text: 'To view a list of archived soil survey versions available for the specified Area of Interest, see [Soil Surveys for Nebraska](#).' Another teal arrow points to the highlighted link. The main content area includes sections for 'Soil Reports' (with 'Open All' and 'Close All' buttons) and 'Soil Map' (with various interactive tools like zoom, pan, and scale).

- A listing of previous soil survey report publications for the Area of Interest is stored on an external web site. Click the highlighted link to go there.



Search

Soils

Soil Survey

- ▶ Listing Of Soil Surveys by State
- ▶ Status Maps
- ▶ Soil Survey Schedule
- ▶ Soil Data Mart
- ▶ eFOTG (county technical guides)
- ▶ National Soil Characterization Data
- ▶ Soil Geography
- ▶ Soil Research Results
- ▶ Soil Geochemistry Spatial Database

- ▶ 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.

For information about areas not included on the following list of soil survey publications and for ordering or obtaining information about reference copies, 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 (Official Soil Data) |
|---|---------|----------------------|--------|---------------------|--------------------------------------|
| Adams | 1923 | No | No | No | No |
| Adams | 1974 | Yes | Yes | Yes | No |
| Adams | Current | No | No | No | Yes |
| Antelope | 1921 | No | No | No | No |
| Antelope | 1978 | Yes | No | No | No |
| Antelope | Current | No | No | No | Yes |
| Arthur | Current | No | No | No | Yes |
| Arthur and Grant | 1977 | Yes | No | No | No |
| Banner | 1919 | No | No | No | No |
| Banner | 1994 | Yes | No | No | No |

Access the Shopping Cart

The screenshot shows the USDA Web Soil Survey interface. The top navigation bar includes links for Contact Us, Download Soils Data, Archived Soil Surveys, Preferences, Logout, and Help. Below this is a secondary navigation bar with tabs for Area of Interest (AOI), Soil Map, Soil Data Explorer, and Shopping Cart. A teal arrow points to the Shopping Cart tab. The main content area is titled 'Shopping Cart' and features a 'Check Out' button with a help icon. On the left, there are two panels: 'Report Properties' and 'Table of Contents'. The 'Report Properties' panel shows the title 'Custom Soil Resource Report for Lancaster County, Nebraska' and subtitle options: 'Area of Interest Name: (none defined)', 'Custom Subtitle: Knox Place' (selected), and 'None'. The 'Table of Contents' panel shows a list of report sections with their respective sizes.

Report Properties

Title

Title Custom Soil Resource Report for Lancaster County, Nebraska

Subtitle

Area of Interest Name: (none defined)

Custom Subtitle: Knox Place

None

Size

Total Size 2,081 KB (2.0 MB)

Map Options

Show UTM

Coordinate Ticks

Map Page Size A (8.5" x 11")

Map Scale Automatic

Table of Contents

| | |
|--|----------|
| <input checked="" type="checkbox"/> Custom Soil Resource Report for Lancaster County, Nebraska: Knox Place | 2,081 KB |
| <input checked="" type="checkbox"/> Cover | 518 KB |
| <input checked="" type="checkbox"/> Preface | 3 KB |
| <input checked="" type="checkbox"/> Contents | 1 KB |
| <input checked="" type="checkbox"/> How Soil Surveys Are Made | 5 KB |
| <input checked="" type="checkbox"/> Soil Map | 411 KB |
| <input checked="" type="checkbox"/> Soil Map | 381 KB |

Set desired Options. Enter Subtitle if desired.

Table of Contents shows content of Shopping Cart

Table of Contents

| Table of Contents | |
|--|---|
| <input checked="" type="checkbox"/> <input type="checkbox"/> | Custom Soil Resource Report for Lancaster County, Nebraska: Knox Place 2,081 KB |
| <input checked="" type="checkbox"/> <input type="checkbox"/> | Cover 518 KB |
| <input checked="" type="checkbox"/> <input type="checkbox"/> | Preface 3 KB |
| <input checked="" type="checkbox"/> <input type="checkbox"/> | Contents 1 KB |
| <input checked="" type="checkbox"/> <input type="checkbox"/> | How Soil Surveys Are Made 5 KB |
| <input checked="" type="checkbox"/> <input type="checkbox"/> | Soil Map 411 KB |
| <input checked="" type="checkbox"/> <input type="checkbox"/> | Soil Map 381 KB |
| <input checked="" type="checkbox"/> <input type="checkbox"/> | Map Unit Legend 4 KB |
| <input checked="" type="checkbox"/> <input type="checkbox"/> | Map Unit Description 27 KB |
| <input checked="" type="checkbox"/> <input type="checkbox"/> | Soil Data Explorer 1,140 KB |
| <input type="checkbox"/> <input type="checkbox"/> | All Uses |
| <input type="checkbox"/> <input type="checkbox"/> | Cropland |
| <input type="checkbox"/> <input type="checkbox"/> | Forestland |
| <input type="checkbox"/> <input type="checkbox"/> | Hayland/Pastureland |
| <input type="checkbox"/> <input type="checkbox"/> | Horticulture |
| <input checked="" type="checkbox"/> <input type="checkbox"/> | Rangeland 1,140 KB |
| <input type="checkbox"/> <input type="checkbox"/> | Intro to Rangeland |
| <input checked="" type="checkbox"/> <input type="checkbox"/> | Suitabilities and Limitations for Use 762 KB |
| <input checked="" type="checkbox"/> <input type="checkbox"/> | Building Site Development 383 KB |
| <input checked="" type="checkbox"/> <input type="checkbox"/> | Dwellings without Basements 383 KB |
| <input checked="" type="checkbox"/> <input type="checkbox"/> | Land Classifications 379 KB |
| <input checked="" type="checkbox"/> <input type="checkbox"/> | Ecological Site Name: NRCS Rangeland Site 379 KB |
| <input checked="" type="checkbox"/> <input type="checkbox"/> | Ecological Site Assessment 378 KB |
| <input checked="" type="checkbox"/> <input type="checkbox"/> | All Ecological Sites 378 KB |
| <input type="checkbox"/> <input type="checkbox"/> | Recreation |
| <input type="checkbox"/> <input type="checkbox"/> | Urban Uses |
| <input checked="" type="checkbox"/> <input type="checkbox"/> | References 3 KB |
| <input type="checkbox"/> <input type="checkbox"/> | Glossary 113 KB |

Soil map, map unit legend, and map unit descriptions are automatically added.

Items can be deselected by unchecking them on the list if you decide you do not want to get them. Additional items must be added in previous screens.

Preview an Item

Natural Resources Conservation Service

Contact Us | Download Soils Data | Archived Soil Surveys | Preferences | Logout | Help

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

Check Out ?

Report Properties

Title

Title: Custom Soil Resource Report for Lancaster County, Nebraska

Subtitle:

- Area of Interest Name: (none defined)
- Custom Subtitle: Knox Place
- None

Size

Total Size: 2,081 KB (2.0 MB)

Map Options

Show UTM Coordinate Ticks:

Map Page Size: A (8.5" x 11")

Map Scale: Automatic

Table of Contents

| | | |
|-------------------------------------|--|----------|
| <input checked="" type="checkbox"/> | Custom Soil Resource Report for Lancaster County, Nebraska: Knox Place | 2,081 KB |
| <input checked="" type="checkbox"/> | Cover | 518 KB |
| <input checked="" type="checkbox"/> | Preface | 3 KB |
| <input checked="" type="checkbox"/> | Contents | 1 KB |
| <input checked="" type="checkbox"/> | How Soil Surveys Are Made | 5 KB |
| <input checked="" type="checkbox"/> | Soil Map | 411 KB |
| <input checked="" type="checkbox"/> | Soil Map | 381 KB |
| <input checked="" type="checkbox"/> | Map Unit Legend | 4 KB |

Soil Map

0 915ft

Click on an item to preview it.

Check Out

USDA United States Department of Agriculture
Natural Resources Conservation Service

Web Soil Survey

Contact Us | Download Soils Data | Archived Soil Surveys | Preferences | Logout | Help

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

Check Out ?

Report Properties ?

Title

Title Custom Soil Resource Report for Lancaster County, Nebraska

Subtitle

Area of Interest Name: (none defined)

Custom Subtitle: Knox Place

None

Size

Total Size 2,081 KB (2.0 MB)

Map Options

Show UTM Coordinate Ticks

Map Page Size A (8.5" × 11")

Map Scale Automatic

Checkout Options ?

Delivery Options

Select a Delivery Method

Get now

Download later

Cancel OK

W HOLDREGE

WHD

WIC2

WIC3

No

NW 40TH ST

W VINE ST

0 915ft

Table of Contents

- During Check Out you can elect to get the file now or later.
- Then click OK.

Custom Soil Resource Report being generated

USDA United States Department of Agriculture
Natural Resources Conservation Service

Web Soil Survey

Contact Us | Download Soils Data | Archived Soil Surveys | Preferences | Logout | Help

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

Check Out ?

Report Properties

Title

Title Custom Soil Resource Report for Lancaster County, Nebraska

Subtitle

Area of Interest Name: (none defined)

Custom Subtitle:

None

Size

Total Size 2,081 KB (2.0 MB)

Map Options

Show UTM Coordinate Ticks

Map Page Size

Map Scale

Soil Map

W HOLDREGE ST

W VINE ST

NW 40TH ST

WIG2

WIG3

Na

0 915ft

Generating custom soil resource report...

Custom Soil Resource Report

Options x

Bookmarks

- Cover
- Preface
- Contents
- How Soil Surveys A
- Soil Map
 - Soil Map
 - Legend
 - Map Unit Legend
- Map Unit Descrip
 - Lancaster Cou
 - BpF—Burch
 - BrD—Burch
 - No—Nodaw
 - ShC—Aksa
 - ShD—Aksa
 - WtC2—Wy
 - WtD3—Oto
- Soil Information for F
 - Suitabilities and L
 - Building Site C
 - Dwellings w
 - Land Classific
 - Ecological S
- Ecological Site A
 - All Ecological
 - Legend—Dc
 - Table—Eco

Signatures

Layers

Pages

Comments

8.5 x 11 in

USDA United States Department of Agriculture

NRCS Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Lancaster County, Nebraska

Knox Place

W HOLLAND ST

E 21ST ST

Nebraska

Lancaster

0 689ft