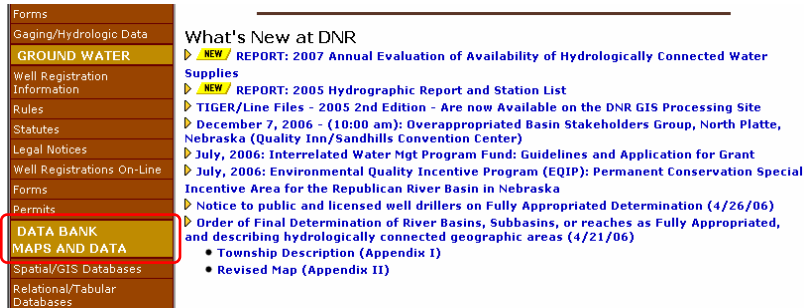


## Lesson 1 - Downloading Publicly Available Data

### Exercise 1-4

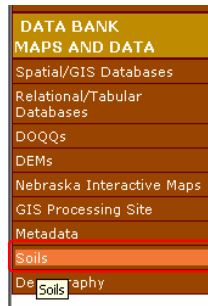
**Objective:** Retrieval of a **Soil Series Map** from Soil Survey Geographic (SSURGO) database.

1. Go to the Nebraska Department of Natural Resources (DNR) website at [www.dnr.ne.gov](http://www.dnr.ne.gov) and locate the **DATA BANK - MAPS AND DATA** section.



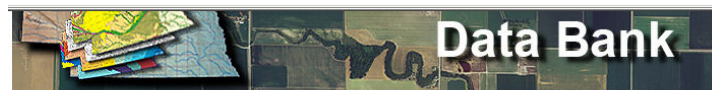
The screenshot shows the DNR website's navigation menu on the left, with 'DATA BANK MAPS AND DATA' highlighted in a red box. To the right, the 'What's New at DNR' section lists several reports and notices, including a report on hydrologically connected water supplies and a notice regarding well drillers on fully appropriated determination.

2. Click the **Soils** tab.



The screenshot shows a vertical menu titled 'DATA BANK MAPS AND DATA'. The 'Soils' option is highlighted in a red box, and the 'Data Bank' link is also visible at the bottom of the menu.

3. On the following page, select the **SSUGO (Soil Survey Geographic) Database** link.



#### SOILS DATA

**Source:** Natural Resources Conservation Service, USDA  
**Processed by:** Nebraska Department of Natural Resources

- [SSURGO \(Soil Survey Geographic\) Database](#)
- [STATSGO \(State Soil Geographic\) Database](#)
- [Coverage of Nebraska Major Land Resource Areas](#) (right click)
- [Other Soils Data](#) (2 acre cell), C Factor and P Factor
- [Nebraska Interactive Map](#) - SSURGO soils types are available, zoom to township.
- [GIS Processing Site](#) to retrieve data in users' format.

#### References for soils definitions

- [Soil Mapping Units - Alphabetical Listing - Statewide](#)
- [Soil Mapping Units Interpretative Records \(MUIR\)](#)
- [Soil Survey Manual](#)
- [Major Land Resource Areas Metadata](#)

*Application of Manifold GIS Software for Precision Agriculture*  
*Viacheslav I. Adamchuk and Abbas Hemmat*

4. On the following page, click the **Immediate Download of SSURGO database from DNR's FTP Site** link.

STATE OF NEBRASKA  
Soil Survey Geographic (SSURGO) Database

---

**Information Source:**  
Nebraska Department of Natural Resources,  
Natural Resources Conservation Service/USDA  
and the Conservation & Survey Div./UNL

**Processed by:** Nebraska Department of Natural Resources (12/99 KMG/F)

**Note:** The compressed SSURGO county coverages vary from 5 to 40 MB and the uncompressed SSURGO county coverages from 50 to 150 MB in storage space.

[SSURGO Database Status Map](#)  
[SSURGO County \(soil areas\) Boundary Coverage](#)  
 To Download SSURGO database, following options are available:

**Immediate Download of SSURGO database from DNR's FTP Site**

- o ArcInfo Export
- o Universal Transverse Mercator NAD83
- o Unix InfoZip
- [MS Access Template 2002](#) for use with text or tabular files.
- [MS Access Template 2000](#) for use with text or tabular files.
- [MS Access Template 1997](#) for use with text or tabular files.
- [SSURGO Database in User Format](#) (GIS Overnight Processing Site)
- [Link to USDANRCS FTP Site](#)

5. On the next page (Download Nebraska SSURGO Data), select **Saunders County**.

<a href="#">Nance County</a>	06/04/2004	<a href="#">Nemaha County</a>	06/22/2004
<a href="#">Nuckolls County</a>	09/27/2002	<a href="#">Otoe County</a>	06/22/2004
<a href="#">Pawnee County</a>	06/04/2004	<a href="#">Perkins County</a>	03/13/2003
<a href="#">Phelps County</a>	05/13/2004	<a href="#">Pierce County</a>	06/12/2003
<a href="#">Platte County</a>	01/22/2002	<a href="#">Polk County</a>	06/07/2004
<a href="#">Red Willow County</a>	10/15/2003	<a href="#">Richardson County</a>	06/22/2004
<a href="#">Rock County</a>	05/15/2002	<a href="#">Saline County</a>	06/22/2004
<a href="#">Sarpy County</a>	06/23/2003	<a href="#">Saunders County</a>	05/25/2004
<a href="#">Scotts Bluff County</a>	05/21/2004	<a href="#">Seward County</a>	06/07/2004
<a href="#">Sheridan County</a>	01/31/2002	<a href="#">Sherman County</a>	05/13/2004
<a href="#">Sioux County</a>	02/12/2002	<a href="#">Stanton County</a>	05/21/2003

6. On the new page, right click the **Soil Lines (Polygon Coverage)** link and choose the **Save Target As** option to save **ssurgo.zip** in your working directory.

SAUNDERS COUNTY

- [Soil Lines \(Polygon Coverage\)](#)
- [Soil Symbo](#) Open
- [Soil Special](#) Open in New Window
- [Map Units](#) Save Target As... [Soil Data](#)
- [Metadata](#) Print Target

- Cut
- Copy
- Copy Shortcut
- Paste
- Add to Favorites...
- Yahoo! Search
- Yahoo! Dictionary
- Yahoo! Maps
- Yahoo! SMS
- Properties

- Using **Windows Explorer**, right click the **ssurgo.zip** file name, select the **Extract All** option and extract the **ssurgo.e00** file containing soils data for the entire Saunders County.

