

## Introduction To Soil Survey Information

Official soil survey data may be obtained through the Natural Resources Conservation Service (NRCS) electronic Field Office Technical Guide (eFOTG) and is available as follows:

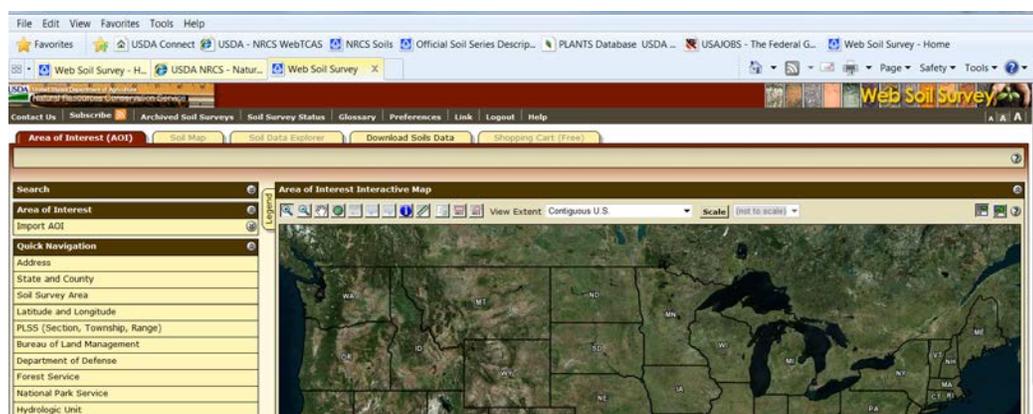
**Stored County reports** are reports currently not available from the national Soil Survey Sites. They contain soil data for an entire soil survey area. These reports are located in the eFOTG, Section II, Statewide Soil and Site Information, and include the following:

1. Nebraska Soil Survey Conversion Legend
2. Highly Erodible Land (HEL) Interpretations – Report By County
3. Cropland Interpretations: National Commodity Crop Productivity Index (NCCPI) – Report by County

All other Official soil survey spatial and tabular data and reports are accessed through Web Soil Survey (WSS), Soil Data Access (SDA), or Geospatial Data Gateway (GDG). For most users, Web Soil Survey is the most convenient avenue to soil survey information. SDA is designed for the experienced Geographic Information User. GDG is the one stop shop for USDA Geospatial Products.

### Web Soil Survey

Access the WSS site at: <http://websoilsurvey.nrcs.usda.gov/app/> to view soils maps and various soil interpretations or reports. The WSS allows you to create and download maps and tables of an entire Soil Survey Area (County), or a smaller Area of Interest (AOI) in a PDF format. Spatial Files and the associated soil databases can also be downloaded. The AOI can be County sized, or is limited to 100,000 acres or less.



Instructions for generating reports in WSS are located at the Website. The instructions explain how to navigate to an area of your choice. After selecting an AOI, click the Soil Data Explorer tab to access the inner tabs:

- Intro to Soils – A general description of the Soil Survey, interpretations and their use.
- Suitabilities and Limitations for Use - Interpretations of soil data for a wide variety of agricultural, construction, and environmental uses.
- Soil Properties and Qualities – Physical and Chemical properties of the soil.
- Ecological Site Assessment – Detailed information on the Ecological Sites in an AOI.
- Soil Reports – Generates Soil Reports of interpretations and soil properties for the defined Area of Interest.

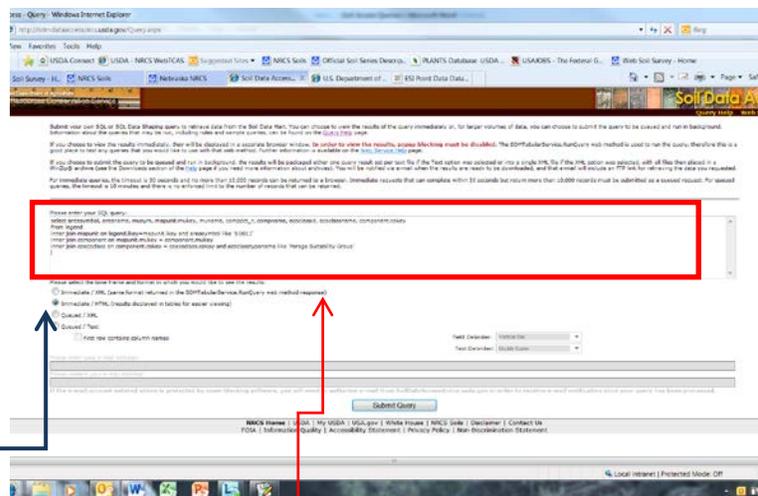
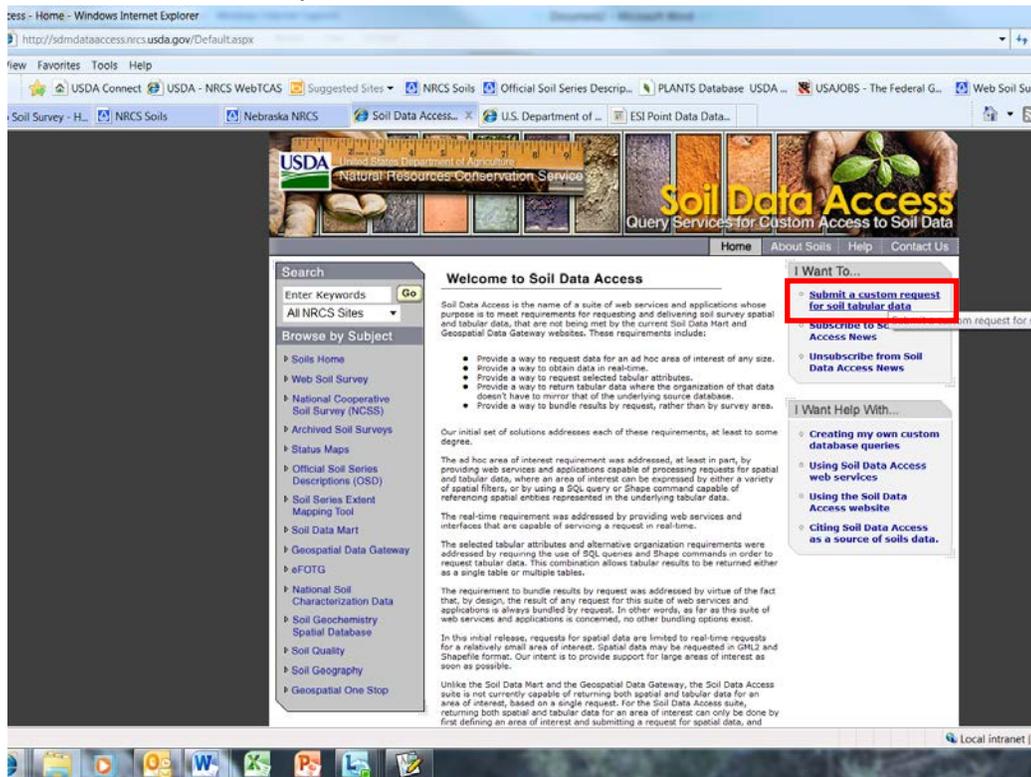
Appendix A is a Guide to National Soil Interpretations and Reports under the Soil Data Explorer tab in Web Soil Survey. The Table Below lists additional Regional Soil Reports available for Nebraska under Soil Reports > AOI > Selected Soil Interpretations in Web Soil Survey.

<b>Interpretation Name</b>
AGR - Conventional Tillage (NE)
AGR - Mulch Till (NE)
AGR - No Till (NE)
AGR - Pesticide Loss Potential-Leaching
AGR - Pesticide Loss Potential-Soil Surface Runoff
AGR - Water Erosion Potential (NE)
AGR - Wind Erosion Potential (NE)
American Wine Grape Varieties Site Desirability (Medium)
American Wine Grape Varieties Site Desirability (Short)
BLM - Fire Damage Susceptibility
BLM - Site Degradation Susceptibility
BLM - Soil Compaction Resistance
BLM - Soil Restoration Potential
ENG - Construction Materials - Gravel Source (MN)
Hybrid Wine Grape Varieties Site Desirability (Medium)
Hybrid Wine Grape Varieties Site Desirability (Short)
NCCPI - National Commodity Crop Productivity Index (Ver 2.0)
NCCPI - NCCPI Corn and Soybeans Submodel (II)
NCCPI - NCCPI Cotton Submodel (II)
NCCPI - NCCPI Small Grains Submodel (II)
Vinifera Wine Grape Site Desirability (Short)

# Soil Data Access (SDA)

Soil Data Access is the name of a suite of web services and applications designed for the intermediate to advanced geographic data user. It allows the user to use Structured Query Language (SQL) to retrieve tailored Soil Data from the Official Soil Survey database. Complete instructions on the services available are at the SDA Website. An example on how to query for tailored attribute data is shown below

1. Go to Soil Data Access <http://sdmdataaccess.nrcs.usda.gov/Default.aspx>
2. Choose: Submit a custom request for soil tabular data



3. Copy and paste query into Query Window
4. Set radio button to the desired format.

**Example: A query for Component Table Information [Constrained by area symbol]:**

```
SELECT legend.areasymbol, musym, mapunit.mukey, compname, comppct_r, majcompflag, taxsubgrp,
taxpartsize, drainagecl, runoff, hydgrp FROM legend INNER JOIN (mapunit INNER JOIN component ON
mapunit.mukey = component.mukey) ON legend.lkey = mapunit.lkey WHERE
component.majcompflag='yes' and legend.areasymbol like 'NE109' ORDER BY musym, compname
```

**NOTE:** There is an issue with forward vs backward quotes,( 'NE109' vs 'NE109') so the font format is important.

**Output for the Query Above**

areasymbol	musym	mukey	compname	comppct_r	majcompflag	taxsubgrp	taxpartsize	drainagecl	runoff	hydgrp
NE109	3518	1691363	Lamo	98	Yes	Cumulic Endoaquolls	fine-silty	Somewhat poorly drained	Low	C
NE109	3561	2219228	Hobbs	99	Yes	Mollic Ustifluvents	fine-silty	Well drained	Low	B
NE109	3640	2219230	Kezan	99	Yes	Mollic Fluvaquents	fine-silty	Poorly drained	Low	B/D
NE109	3641	2219229	Kezan	85	Yes	Mollic Fluvaquents	fine-silty	Poorly drained	Negligible	B/D
NE109	3709	1691348	Crete	98	Yes	Pachic Argiustolls	fine	Moderately well drained	High	C
NE109	3713	1691345	Butler	95	Yes	Abruptic Argiaquolls	fine	Somewhat poorly drained	Negligible	D
NE109	3785	1691349	Crete	100	Yes	Pachic Argiustolls	fine	Moderately well drained	Very high	C
NE109	3786	1691350	Crete	100	Yes	Pachic Argiustolls	fine	Moderately well drained	Very high	C
NE109	3820	1691344	Butler	95	Yes	Abruptic Argiaquolls	fine	Somewhat poorly drained	Negligible	D
NE109	3824	2559463	Crete	90	Yes	Pachic Udertic Argiustolls	fine	Moderately well drained		C
NE109	3840	1691356	Geary	100	Yes	Udic Argiustolls	fine-silty	Well drained	High	C
NE109	3921	1691388	Rock outcrop	40	Yes				Very high	
NE109	3921	1691388	Sogn	60	Yes	Lithic Haplustolls	loamy	Somewhat excessively drained	High	D
NE109	3952	1691355	Fillmore	99	Yes	Typic Argialbolls	fine	Somewhat poorly drained	High	D
NE109	4101	1691351	Crete variant	100	Yes	Typic Natrustolls	fine	Moderately well drained	Very high	D
NE109	4112	1691358	Hedville	100	Yes	Lithic Hapludolls	loamy	Somewhat excessively drained	Medium	D
NE109	7015	1691379	Salmo	98	Yes	Cumulic Endoaquolls	fine-silty	Somewhat poorly drained	Low	C
NE109	7016	1691380	Salmo	99	Yes	Cumulic Endoaquolls	fine-silty	Poorly drained	Low	C/D
NE109	7017	1691381	Salmo	99	Yes	Cumulic Endoaquolls	fine-silty	Poorly drained	Low	C/D

## GeoSpatial Data Gateway (GDG)

The Geospatial Data Gateway (GDG) is the “One Stop” Source for environmental and natural resources data. Besides soil survey data, GDG has available all Geospatial data made available by the Natural Resource Conservation Service (NRCS), Farm Service Agency (FSA) and Rural Development (RD). The Gateway allows a user to choose an area of interest (State and Counties), browse and select data from the catalog, customize the format, and either download it directly, or have the data shipped on CD or DVD.

The Geospatial Data Gateway can be accessed at: <http://datagateway.nrcs.usda.gov/>

