

## **APPENDIX E**

# Navigating and Using the Soil Data Mart

ACCESSING SOIL DATAMART ([ctrl + click link below](#))

<http://soildatamart.nrcs.usda.gov>

## Functionality includes:

- 1) Generate and Print Reports
- 2) Download data (Spatial and/or Tabular)

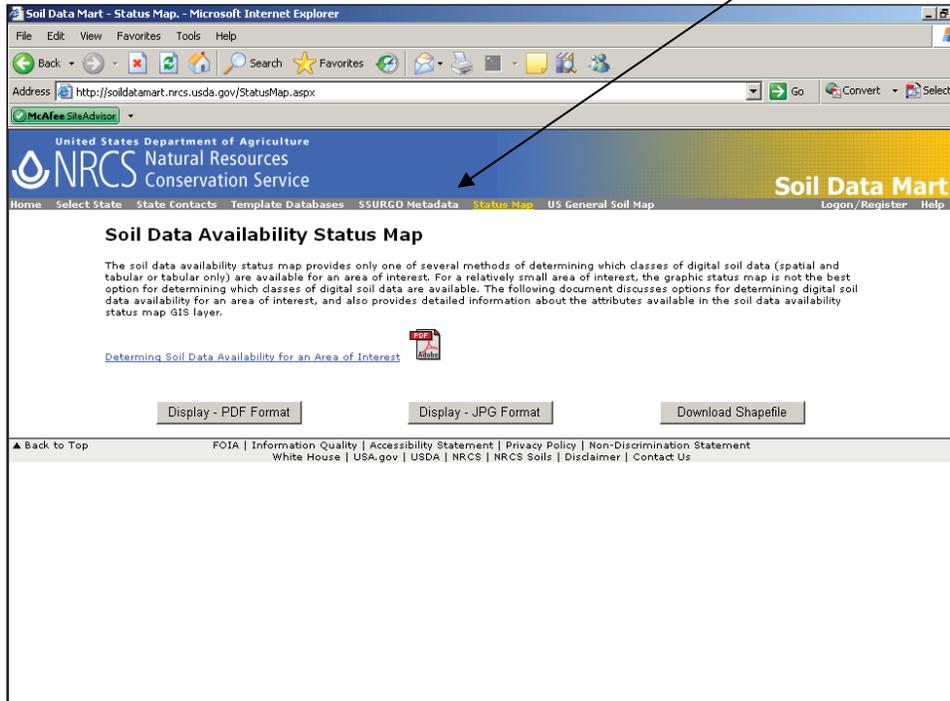
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## Soil Data Mart Home Page

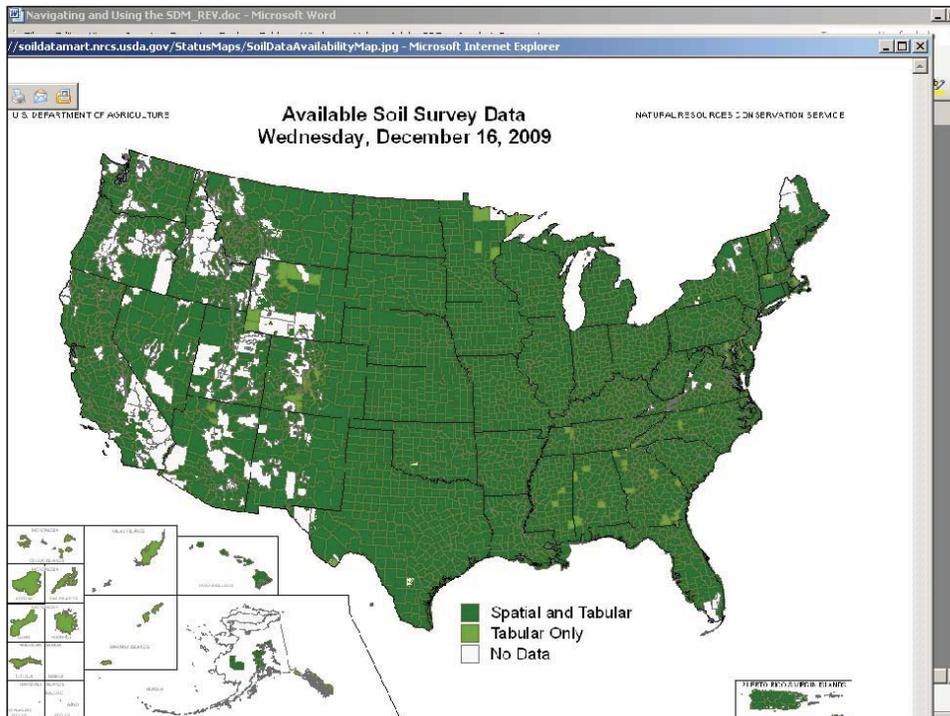
The screenshot shows the Soil Data Mart Home Page in Microsoft Internet Explorer. The browser's address bar displays <http://soildatamart.nrcs.usda.gov/>. The page header includes the United States Department of Agriculture logo, the NRCS Natural Resources Conservation Service logo, and the text "Soil Data Mart". A navigation menu contains links for Home, Select State, State Contacts, Template Databases, SSURGD Metadata, Status Map, US General Soil Map, Logon/Register, and Help. The main content area begins with a welcome message: "Welcome to the Soil Data Mart! The Soil Data Mart allows you to:" followed by a bulleted list of capabilities: determining data availability, downloading data for one survey area at a time (with a note about the Geospatial Data Gateway), downloading a Microsoft Access database template, generating reports, finding contact information, and subscribing/unsubscribing. Below this is a note about an alternative presentation of survey area data available through the Web Soil Survey. A red "PDF" icon indicates a document titled "Soil Data Mart - Purpose and Procedures (2579K)". A prompt asks the user to select a state or territory, with a "Select State" button below. A maintenance notice states the site is unavailable on Tuesdays and Thursdays from 6:30 to 8:30 p.m. Mountain time. A browser compatibility notice mentions testing under Mozilla Firefox 1.0 and later, Microsoft Internet Explorer 5.0 and later, and Netscape Navigator 4.7 and later for Microsoft Windows. A footer note states the site provides an entry point for integration with other web sites, with a link to "Get detailed information." The footer also includes a "Back to Top" link and a list of links: FOIA | Information Quality | Accessibility Statement | Privacy Policy | Non-Discrimination Statement | White House | USA.gov | USDA | NRCS | NRCS Soils | Disclaimer | Contact Us.

## Determining Data Availability for a Location.

Select the Status Map link at the top of the Soil Data Mart Page to navigate to the Display page. 3 choices are PDF, JPG or SHP.



## Status Map in Pop-up Window



## Select State or View Availability of Soil Data

Soil Data Mart - Select State or Territory. - Microsoft Internet Explorer

Address: <http://soildatamart.nrcs.usda.gov/State.aspx>

United States Department of Agriculture  
**NRCS** Natural Resources Conservation Service  
**Soil Data Mart**

Home Select State State Contacts Template Databases SSURGO Metadata Status Map US General Soil Map Logon/Register Help

Please select a state or territory with at least one survey area:

State or Territory Code	State or Territory Name	Available Survey Areas
AL	Alabama	67
AK	Alaska	30
AZ	Arizona	43
AR	Arkansas	66
CA	California	109
CO	Colorado	67
CT	Connecticut	1
DC	District of Columbia	1
DE	Delaware	3
<b>FL</b>	<b>Florida</b>	<b>70</b>
GA	Georgia	95
HI	Hawaii	7
ID	Idaho	47
IL	Illinois	102
IN	Indiana	92
IA	Iowa	99
KS	Kansas	105
KY	Kentucky	85
LA	Louisiana	64
ME	Maine	17
MD	Maryland	25
MA	Massachusetts	19

Select County Select Survey Area

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## Select County or Survey Area

Soil Data Mart - Select Soil Survey Area. - Microsoft Internet Explorer

Address: <http://soildatamart.nrcs.usda.gov/Survey.aspx?State=FL>

United States Department of Agriculture  
**NRCS** Natural Resources Conservation Service  
 Florida  
**Soil Data Mart**

Home Select State State Contacts Template Databases SSURGO Metadata Status Map US General Soil Map Logon/Register Help

Please select a soil survey area:

Survey Area Symbol	Survey Area Name	Available Data
FL115	Sarasota County, Florida	Tabular and Spatial
FL117	Seminole County, Florida	Tabular and Spatial
FL119	Sumter County, Florida	Tabular and Spatial
FL121	Suwannee County, Florida	Tabular and Spatial
FL123	Taylor County, Florida	Tabular and Spatial
FL125	Union County, Florida	Tabular and Spatial
FL127	Volusia County, Florida	Tabular and Spatial
FL129	Wakulla County, Florida	Tabular and Spatial
FL131	Walton County, Florida	Tabular and Spatial
FL133	Washington County, Florida	Tabular and Spatial
FL606	Broward County, Florida, East Part	Tabular and Spatial
FL607	Lake County Area, Florida	Tabular and Spatial
<b>FL608</b>	<b>Marion County Area, Florida</b>	<b>Tabular and Spatial</b>
FL609	Ocala National Forest Area, Florida	Tabular and Spatial
FL611	Palm Beach County Area, Florida	Tabular and Spatial
FL616	Big Cypress Reservation, Broward County, Florida	Tabular and Spatial
FL618	Miccosukee Indian Alligator Alley Reservation, Broward County, Florida	Tabular and Spatial
FL621	Collier County Area, Florida	Tabular and Spatial
FL686	Miami-Dade County Area, Florida	Tabular and Spatial
FL687	Monroe County, Keys Area, Florida	Tabular and Spatial*

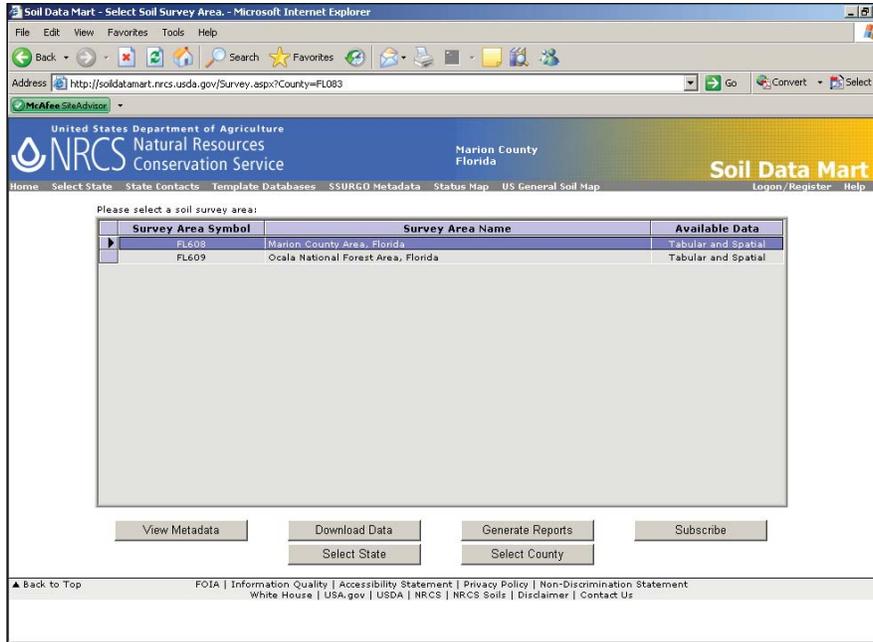
\*Mapping for this survey area is still in progress, and the corresponding spatial and tabular data are not yet complete.

View Metadata Download Data Generate Reports Subscribe

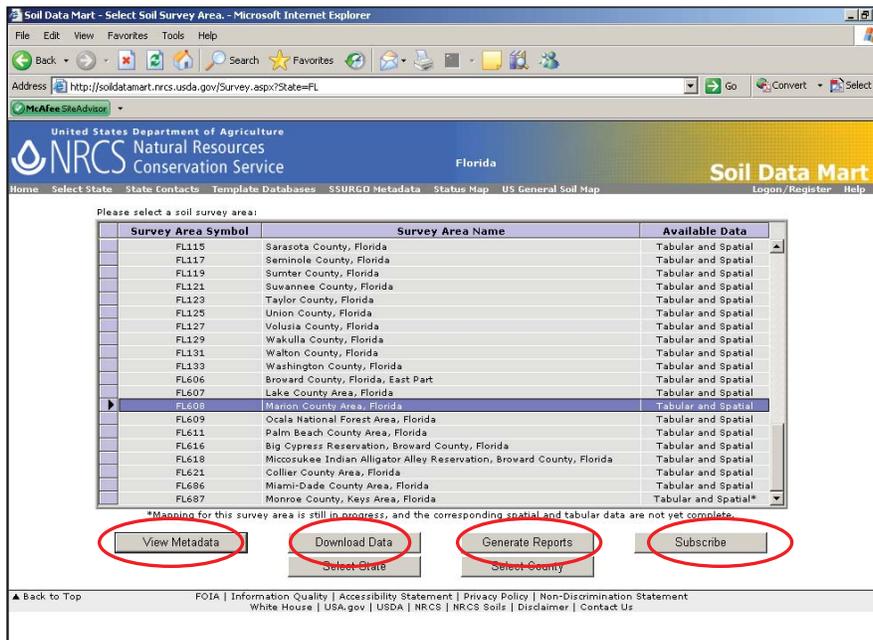
Select State Select County

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If County is selected, it will show all available datasets for a given county. If Survey Area is selected, all survey areas are shown.



At this point, a decision is made as to download data directly or to generate and review specific soil reports. Other functions include Viewing Metadata or to add your email address to this County’s subscription list to be notified when the data is updated.

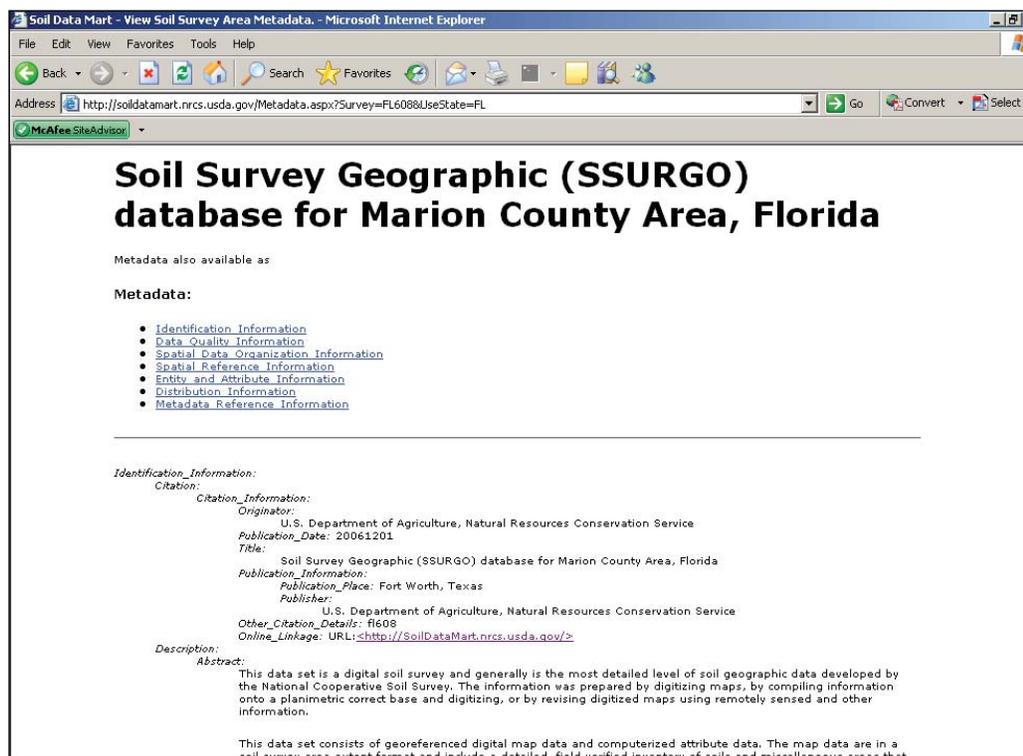


The following pages provide additional information on these 4 capabilities.

### Viewing Metadata:

Provides specific information about the SSURGO database including Spatial and Attribute information, Data Quality, Vintage of data, and includes any changes to the database from a previous version.

- [Identification Information](#)
- [Data Quality Information](#)
- [Spatial Data Organization Information](#)
- [Spatial Reference Information](#)
- [Entity and Attribute Information](#)
- [Distribution Information](#)
- [Metadata Reference Information](#)



Soil Data Mart - View Soil Survey Area Metadata. - Microsoft Internet Explorer

Address: <http://soildatamart.nrcs.usda.gov/Metadata.aspx?Survey=FL6088&UseState=FL>

## Soil Survey Geographic (SSURGO) database for Marion County Area, Florida

Metadata also available as

**Metadata:**

- [Identification Information](#)
- [Data Quality Information](#)
- [Spatial Data Organization Information](#)
- [Spatial Reference Information](#)
- [Entity and Attribute Information](#)
- [Distribution Information](#)
- [Metadata Reference Information](#)

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**Identification Information:**

*Citation:*

*Citation\_Information:*

*Originator:* U.S. Department of Agriculture, Natural Resources Conservation Service

*Publication\_Date:* 20061201

*Title:* Soil Survey Geographic (SSURGO) database for Marion County Area, Florida

*Publication\_Information:*

*Publication\_Place:* Fort Worth, Texas

*Publisher:* U.S. Department of Agriculture, Natural Resources Conservation Service

*Other\_Citation\_Details:* fl608

*Online\_Linkage:* URL:<<http://SoilDataMart.nrcs.usda.gov/>>

**Description:**

*Abstract:* This data set is a digital soil survey and generally is the most detailed level of soil geographic data developed by the National Cooperative Soil Survey. The information was prepared by digitizing maps, by compiling information onto a planimetric correct base and digitizing, or by revising digitized maps using remotely sensed and other information.

This data set consists of georeferenced digital map data and computerized attribute data. The map data are in a soil survey area extent format and include a detailed, field verified inventory of soils and miscellaneous areas that

## Downloading data:

Either Spatial and Tabular data can be downloaded together or individually by using the “radio” buttons at the top of the page.

### Choices include:

- Spatial data can be downloaded by format type and coordinate system. Selecting the Digital Format (\*.shp), Coordinate System (in Florida Zone 16 (Panhandle) and Zone 17 (Peninsula)).
- Tabular data is downloaded and then viewed using Microsoft Access. Individuals may select the most applicable version for their computer or the Access Template for individual states (if available).
- Enter your email address and submit a request. Notification will be received depending on your location within the queue nationwide.

The screenshot shows the 'Soil Data Mart' website interface for downloading data. The browser window title is 'Soil Data Mart - Download Soil Survey Area Data. - Microsoft Internet Explorer'. The address bar shows the URL: <http://soildatamart.nrcs.usda.gov/Download.aspx?Survey=FL001&UseState=FL>. The page header includes the United States Department of Agriculture logo, 'NRCS Natural Resources Conservation Service', and 'FL001 - Alachua County, Florida Florida'. The main content area has a navigation bar with links: Home, Select State, State Contacts, Template Databases, SSURGO Metadata, Status Map, US General Soil Map, and Logon/Register/Help. Below the navigation bar, there are radio buttons to select the class of data to download: 'Tabular Data Only', 'Tabular and Spatial Data' (selected), 'Spatial Data Only', and 'Template Database Only'. There are also dropdown menus for 'Please select a spatial format:' (set to 'ArcView Shapefile') and 'Please select a coordinate system:' (set to 'UTM Zone 17, Northern Hemisphere (NAD 83)'). A 'Reset Default' button is next to the coordinate system dropdown. Below these are more dropdowns for 'Please select a template database (optional):' and a 'Clear Selection' button. A table lists available template databases:

State	MS Access Version	Template DB Version	Template DB Name	Size
US	Access 2002	33.1	soildb_US_2002	1.7M
US	Access 2002	33.1	soildb_NPS_2002	2.5M
US	Access 2000	33.1	soildb_US_2000	1.7M
US	Access 97	32	soildb_US_97	1.4M

Below the table is a 'Description' section with text: 'used only when no state specific customized SSURGO Template Database is available. This database is compatible with Soil Data Viewer 5.1. 8-1-07 Three irrigation reports were added for use with 7 new national irrigation rules. Irrigation - General and Sprinkler, Irrigation - Micro, Irrigation - Surface'. There is an input field for 'Please enter your e-mail address:' and a note: 'If the e-mail account entered above is protected by spam blocking software, you will need to authorize e-mail from SoilDataMart@nrcs.usda.gov in order to receive e-mail notification once your request has been processed.' At the bottom, there are buttons for 'Select Survey Area', 'Submit Request', 'View Metadata', 'See Disclaimer', 'Generate Reports', and 'Subscribe'. The footer contains links: 'Back to Top', 'FOIA | Information Quality | Accessibility Statement | Privacy Policy | Non-Discrimination Statement', and 'White House | USA.gov | USDA | NRCS | NRCS Soils | Disclaimer | Contact Us'.

## Generating Reports:

To generate reports, determine which the map units to generate a report for. Either select individual map units by clicking on the Map Unit Symbol or use the “Select All” button.

In order to view any report, popup blocking must be disabled. In order to view a report in PDF format (the default format), your browser must be configured to use a PDF viewer (such as Adobe® Reader® software).

[Commonly Used Soil Properties by Report \(1/4\)](#)  
This report lists some of the more commonly used soil properties, and the report(s) in which each soil property is displayed.

Please select the map units that you would like to report on:

Map Unit Symbol	Map Unit Name
2	Adamsville sand, 0 to 5 percent slopes
3	Andote sand, depressional
4	Andote-Tomoka complex, depressional
5	Apopka sand, 0 to 5 percent slopes
6	Apopka sand, 5 to 12 percent slopes
7	Udalfic Arents, 0 to 5 percent slopes
8	Udalfic Arents, 15 to 60 percent slopes
9	Arredondo sand, 0 to 5 percent slopes
10	Arredondo sand, 5 to 8 percent slopes
11	Pedro-Arredondo complex, 0 to 5 percent slopes
12	Arredondo-Urban land complex, 0 to 5 percent slopes
13	Astatula sand, 0 to 5 percent slopes
14	Astatula sand, 5 to 12 percent slopes
16	Blichton sand, 0 to 2 percent slopes

Select All      Selection Help      Clear Selections

Please select the report that you would like to generate:

Acreeage and Proportionate Extent of the Soils      View Description

Include Minor Soils       Include Description       Rich Text Format

Generate Report      See Disclaimer

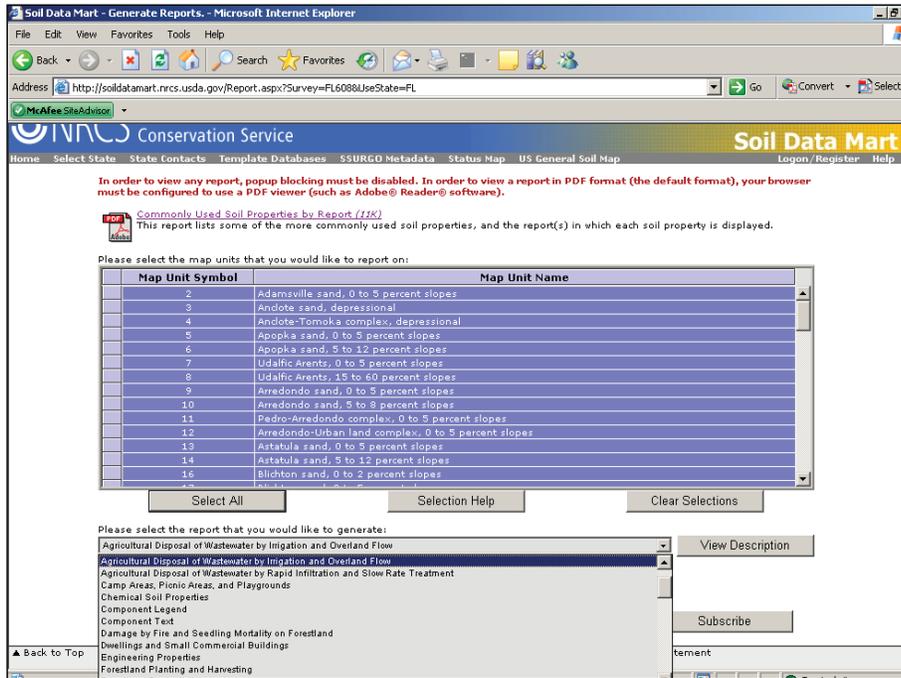
Select Survey Area      View Metadata      Download Data      Subscribe

There is a hyperlink to assist with which commonly used soil properties are used by report. Using this feature can help you determine which Report to generate.

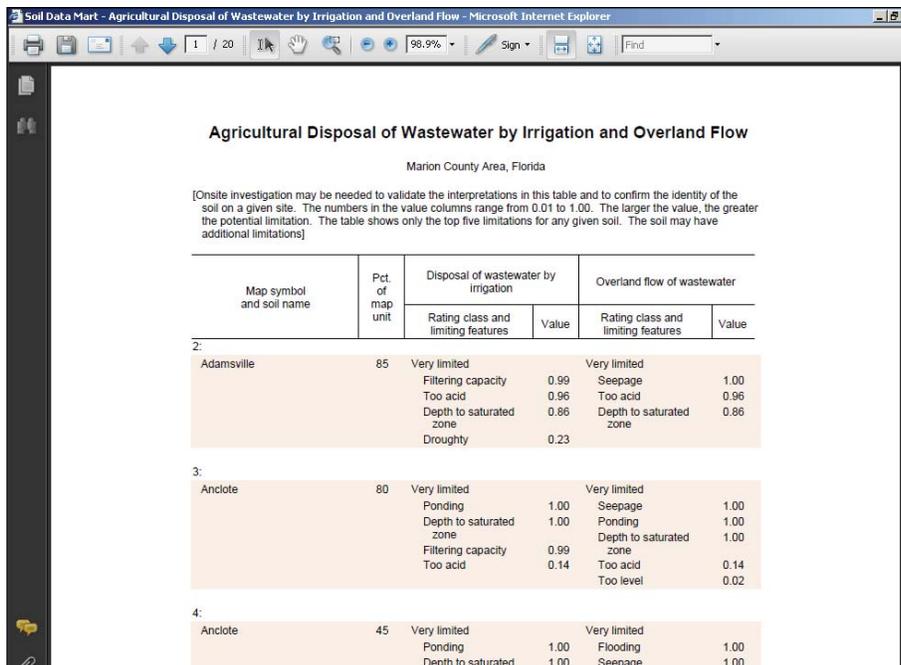
Listing of Soil Properties and Reports in which they are included

Soil Property	Report Name
AASHTO classification	Engineering Properties
Available Water Capacity	Physical Soil Properties
Calcium carbonate content	Chemical Soil Properties
Cation exchange capacity (CEC)	Chemical Soil Properties
Clay content	Physical Soil Properties
Clay content	RUSLE2 Related Attributes
Component composition by map unit	Component Legend
Component kind	Component Legend
Component name by map unit	Component Legend
Effective cation exchange capacity (ECEC)	Chemical Soil Properties
Flooding duration, frequency	Water Features
Fragment content, by weight	Engineering Properties
Gypsum content	Chemical Soil Properties
Horizon depths	Chemical Soil Properties
Horizon depths	Engineering Properties
Horizon depths	Physical Soil Properties
Hydrologic Soil Group	RUSLE2 Related Attributes
Hydrologic Soil Group	Water Features
Kf erosion factor	Physical Soil Properties
Kf erosion factor	RUSLE2 Related Attributes
Kw erosion factor	Physical Soil Properties
Linear Extensibility (shrink-swell)	Physical Soil Properties
Liquid Limit	Engineering Properties
Map unit acres	Acreeage and Proportionate Extent
Map unit name	Acreeage and Proportionate Extent
Map unit percent	Acreeage and Proportionate Extent

Then, using the drop-down list, chose the report you would like to view. For example, say you want to view the Agricultural Disposal of Wastewater by Irrigation and Overland Flow interpretation for all map units in Marion County. Select Marion County, Florida, Select All map units, Navigate to Generate Reports, Choose Agricultural Disposal of Wastewater by Irrigation and Overland Flow.

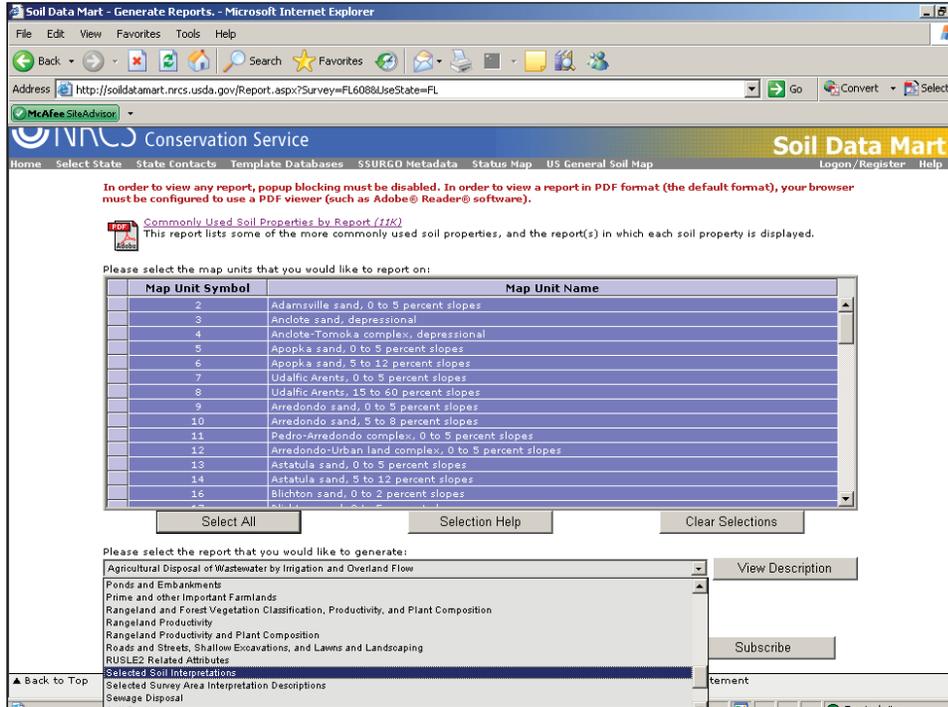


Click Generate Report and Agricultural Disposal of Wastewater by Irrigation and Overland Flow Reports comes up in a new window.

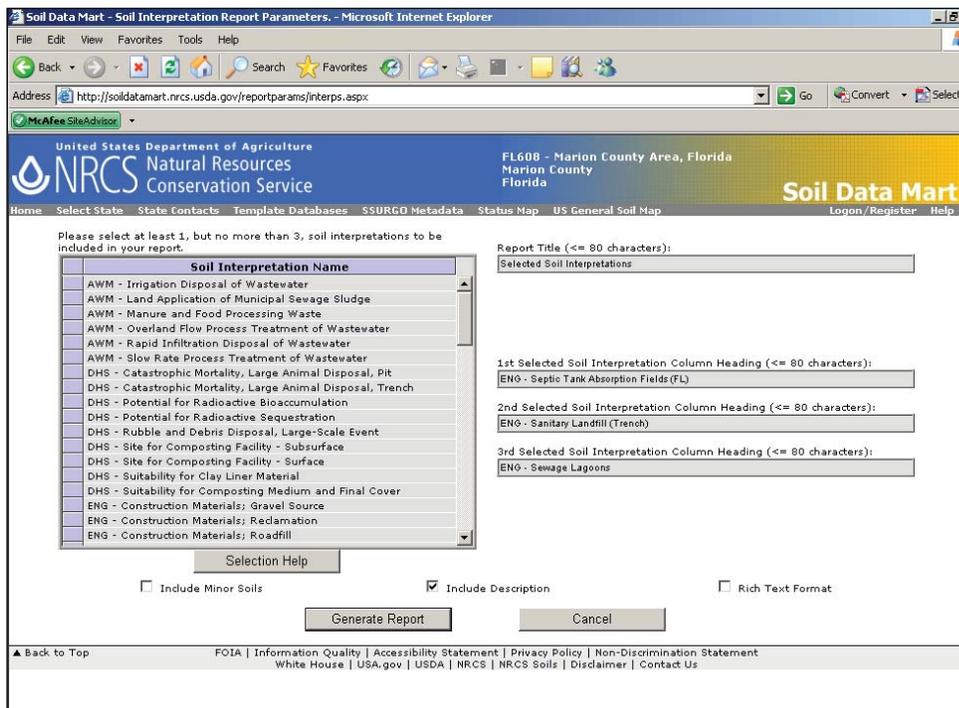


## ACCESSING ADDITIONAL REPORTS AND INTERPRETATIONS

Use the drop-down box and highlight “Selected Soil Interpretations”. Click the Generate Report button.



This Report provides the Regular Interpretation Reports plus Additional Reports list that are not available in the Primary Reports window.



This report allows the customer to produce a report showing the results of the soil interpretation(s) of his or her choice. It is useful when a standard report that displays the results of the selected interpretation(s) is not available.

When customers select this report, they are presented with a list of interpretations with results for the selected map units. The customer may select up to three interpretations to be presented in table format. For a description of the particular interpretations and their criteria, use the "Selected Survey Area Interpretation Descriptions" report.

Categories of Additional Interpretation Reports:

Agricultural Waste Management, Department of Homeland Security, Engineering, Forestry, Grazing Lands, Military, Urban/Recreational, Water Management

Creating a Custom Interpretation Report:

- 1) Select the interpretations by holding down the SHIFT key and selecting the reports (3 maximum)
- 2) Decide if you want the Minor Soils, the description of the interpretation and if you want the report in "Rich Text Format".
- 3) In this example we selected 3 Engineering Interpretations (Septic Tanks Absorption Fields-Florida, Sanitary Landfill-Trench type, and Sewage Lagoons).
  - a. Note: The "FL" at the end of the Report Name indicates that the Interpretation is specific to the state of Florida.

**Selected Soil Interpretations**  
Marion County Area, Florida

[The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The table shows only the top five limitations for any given soil. The soil may have additional limitations]

\*This soil interpretation was designed as a "limitation" as opposed to a "suitability". The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the potential limitation.

Map symbol and soil name	Pct. of map unit	ENG - Septic Tank Absorption Fields (FL) *		ENG - Sanitary Landfill (Trench) *		ENG - Sewage Lagoons *	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
<b>2:</b>							
Adamsville	85	Severely limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Seepage	1.00
				Seepage, bottom layer	1.00	Depth to saturated zone	1.00
				Too sandy	1.00	Slope	0.02
<b>3:</b>							
Anclote	80	Severely limited		Very limited		Very limited	
		Ponding	1.00	Depth to saturated zone	1.00	Ponding	1.00
		Depth to saturated zone	1.00	Ponding	1.00	Seepage	1.00
				Seepage, bottom layer	1.00	Depth to saturated zone	1.00
				Too sandy	1.00		
<b>4:</b>							
Anclote	45	Severely limited		Very limited		Very limited	
		Ponding	1.00	Flooding	1.00	Ponding	1.00
		Flooding	1.00	Depth to saturated	1.00	Flooding	1.00