Soil Data Viewer and You

The Soil Data Viewer will create interpretive and thematic soil maps and reports to help make land use decisions easier.

The Soil Data Viewer is an extension tool for ArcGIS.

These instructions is for those who have gotten their soils data from the web and wish to use the Soil Data Viewer with the Soils map in ArcGIS.

Here's the only hard part:

The Soil Data Viewer is a free download located at:

https://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/survey/geo/?cid=nrcs142p2_0536 14

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Soil G	eography		Version 6	.1 requires soil data	downloaded af	ter July 16, 2013.		
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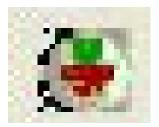
Follow the install instructions.

There are different versions, so load only the one that is compatible with your version of ArcGIS.

And the more intensive user guide is available at:

https://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/survey/geo/?cid=nrcs142p2_0536 21

Depending on the Version you are using.



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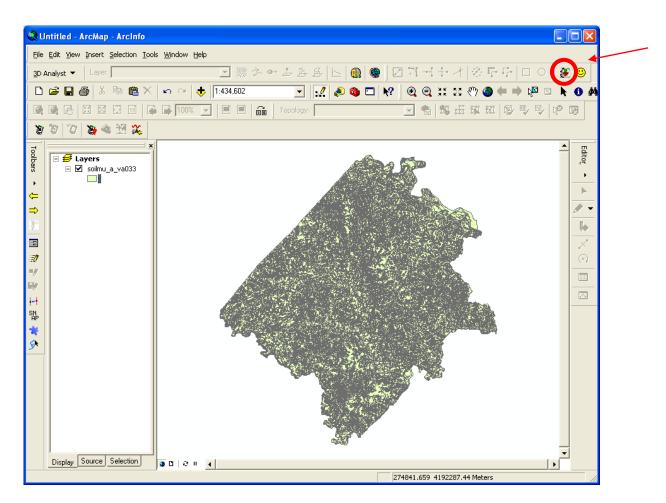
First time users of the Soil Data Viewer must make the button visible. While ArcGIS is open, click on View, click on Toolbars, then if Soil Data Viewer is installed, click on the choice "Soil Data Viewer Tools"

A button should appear, place the button on your tools area.

Do not click on it yet. Soils layer has to come first.

Add the soils layer from the spatial folder prior to opening the Soil Data Viewer. **The soils go first.**

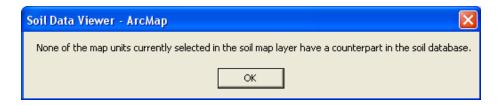
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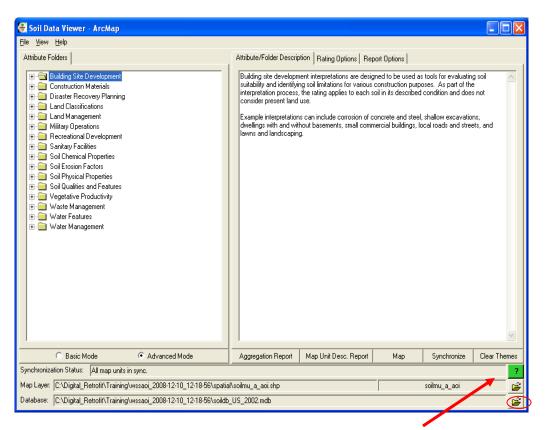
Now click on the Soil Data Viewer (SDV) Button. First timers will have to browse to the Database created from Section one of the tabular data run through the template.

Please select a soil map layer.				
Map Layer Source	Map Layer Name			
C:\Digital_Retrofit\Caroline\soil_va033\spatial\soilmu_a_va033.shp	soilmu_a_va033			
(OK Cancel				

This screen will appear. The first time you use SDV, it may ask you to browse to the folder you have the spatial (map) file. Then click OK. If you have more that one soils map, there may be more than one choice. Choose the one you want to work with.

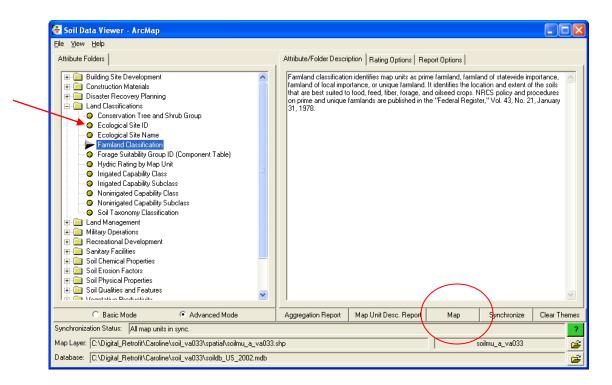


If you have used the SDV in the past with a different county, this message may pop up. Just click OK

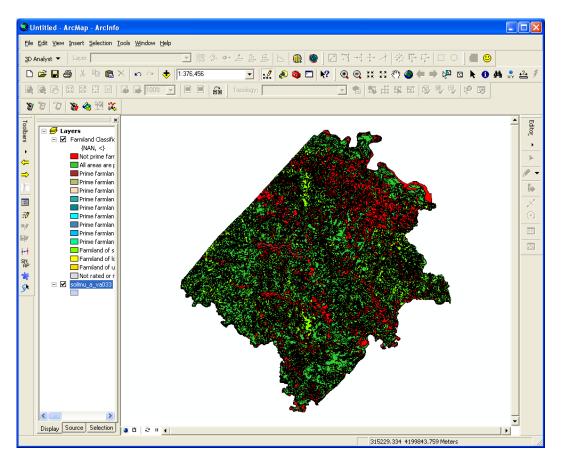


If the **?** is **RED**, then the spatial layer and tabular database are not synchronized, or they do not match each other. Use the browse buttons to find the correct Database that matches the map.

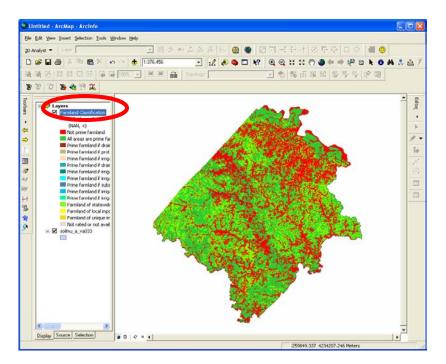
A GREEN ? means the map and database is synchronized, which is a good thing.



Choose a map you would like to create. For example, a Prime Farmland map (Farmland Classification. And then click on the Map button



The map may look cluttered with the lines of the map units. When the lines are removed, it looks better.



To accomplish this, right click on the Farmland Classification layer, and choose Properties

Layer Properties				? 🛛		
General Source Selection	on Displa	y Symbology Fields De	efinition Query Labels Join	ns & Relates		
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			All areas are prime farmland	2		
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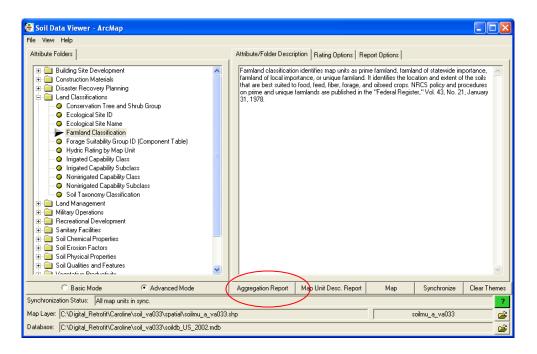
Choose the Symbology tab, and right click on one of the labels. Choose "Properties for all symbols..."

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Click on the outline color,



And choose No Color, click OK, and then OK again

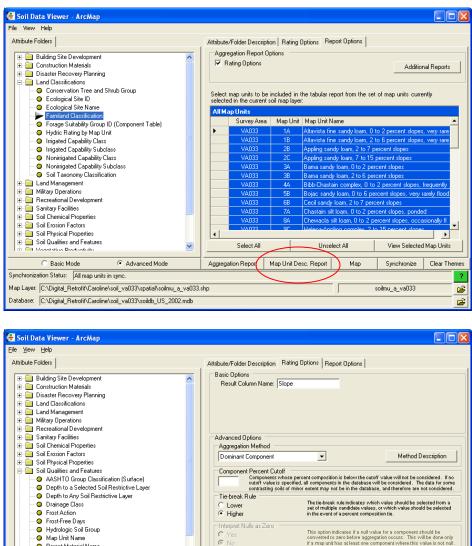


If you need a report of the map created, click on Aggregation Report

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	Map symbol	Map unit name	Rating
	1A	Attavista fine sandy learn: 0 to 2 percent slopes, very rarely flooded	All areas are prime formland
	16	Altavista fine sandy loam, 2 to 6 percent slopes, very rarely flooded	All areas are prime familand
	26	Appling sandy loam, 2 to 7 percent slopes	All areas are prime familand
	20	Appling sandy loam, 7 to 15 percent slopes	Familand of statewide Importance
	3A	Barna sandy loam, 0 to 2 percent slopes	All areas are prime farmland
	36	Barna sandy loam, 2 to 6 percent slopes	All areas are prime familand
	48.	Bibb-Chastain complex, 0 to 2 percent slopes, frequently fooded	Not prime familand
	56	Bojac sandy loam, 0 to 5 percent slopes, very rarely flooded	All areas are prime farmland
	68	Ceol sandy loam, 2 to 7 percent slopes	All areas are prime farmland
	7A	Chastain sitt torm, 0 to 2 percent slopes, ponded	Not prime farmland
	BA.	Chewada silt loam, 0 to 2 percent slopes, occasionally fooded	Prime farmland if drained
	90	Helena-Appling complex, 2 to 16 percent slopes	Furmitand of statewide importance
	10E	Kempsville-Emporia-Remlik complex, 15 to 50 percent slopes	Not prime familand
	11A	Kempsville-Emports complex, 0 to 2 percent slopes	All areas are prime farmland
	110	Kempsvile-Emports complex, 2 to 5 percent slopes	All areas are prime familand
	110	Kempsville-Emporia complex, 0 to 10 percent slopes	Familand of statewide Importance
960	12A	Myatt-Stagle complex, 0 to 2 percent slopes	Not prime farmland
	136	Nevarc sandy loam, 15 to 50 percent slopes	Not prime farmland
	14	Pits, gravel, 0 to 8 percent slopes	Not prime farmland
14	15A	Rappahannock muck, 0 to 1 percent slopes, frequently fooded	Not prime farmland
	108	Remilk loamy sand, 2 to 6 percent slopes	All areas are prime farmland

And a PDF that you can save, send and/or print appears. It also has a description of what the report has in it. This will work with any of the maps you create. The Map Unit Desc. Report button will give you the Non Technical Soils descriptions of the soils in PDF format also.

Click on Map Unit Desc. Report button for a Non-Technical soil descriptions.



This option indicates if a null value for a component should b converted to zero before aggregation occurs. This will be do if a map unit has at least one component where this value is Parent Material Name Representative Slope Unified Soil Classification (Surface) Advanced Mode Aggregation Report Map Unit Desc. Report Sunchronize Clear Themes C Basic Mode Man Synchronization Status: All map units in sync Map Layer: C:\Digital_Retrofit\Caroline\soil_va033\spatial\soilmu_a_va033.shp soilmu a va033 **B** Database: C:\Digital_Retrofit\Caroline\soil_va033\soildb_US_2002.mdb **2**

There are many different types of interpretive and thematic information that can be created with the Soil Data Viewer. One must spend the time to try many of the different maps to see what may help them with land use decisions.

If you have specific soils questions, have trouble using this program, or would like to combine information found in the Soil Data Viewer together, please do not hesitate to call your Resource Soil Scientist or David Harper at 804-287-1647. More in depth directions for SDV are located at:

https://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/survey/geo/?cid=nrcs142p2 0536 21