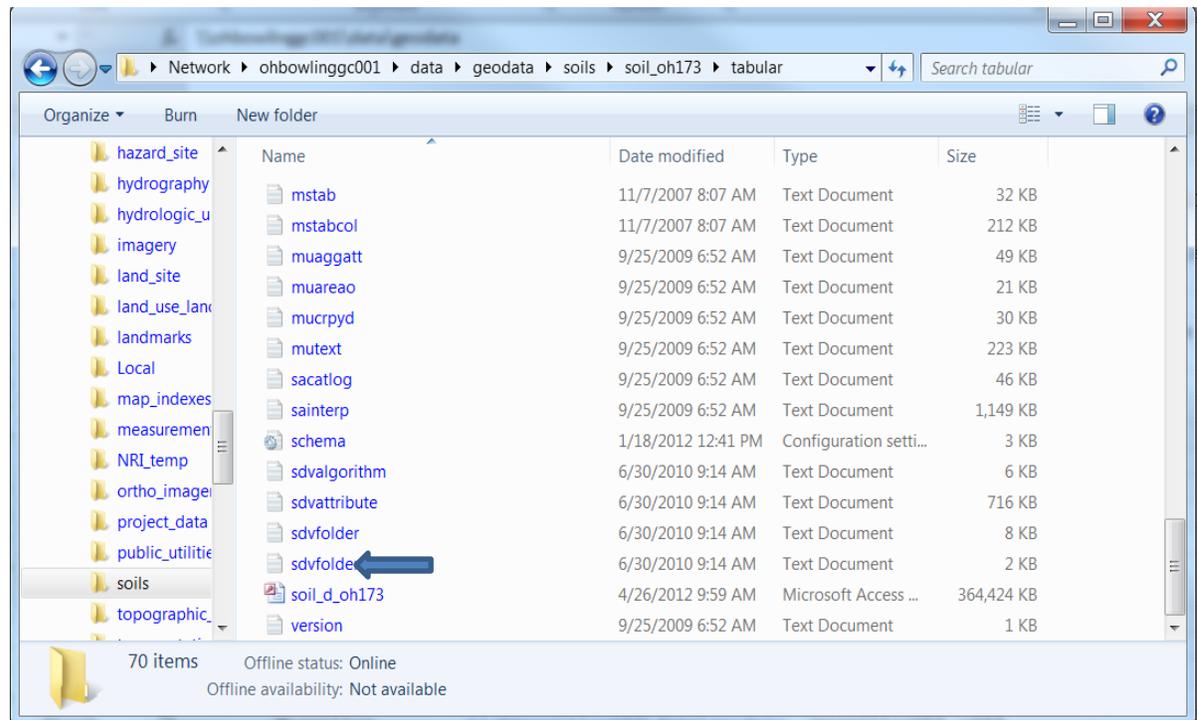


Using the SSURGO Template Database as a substitute for Soil Data Mart

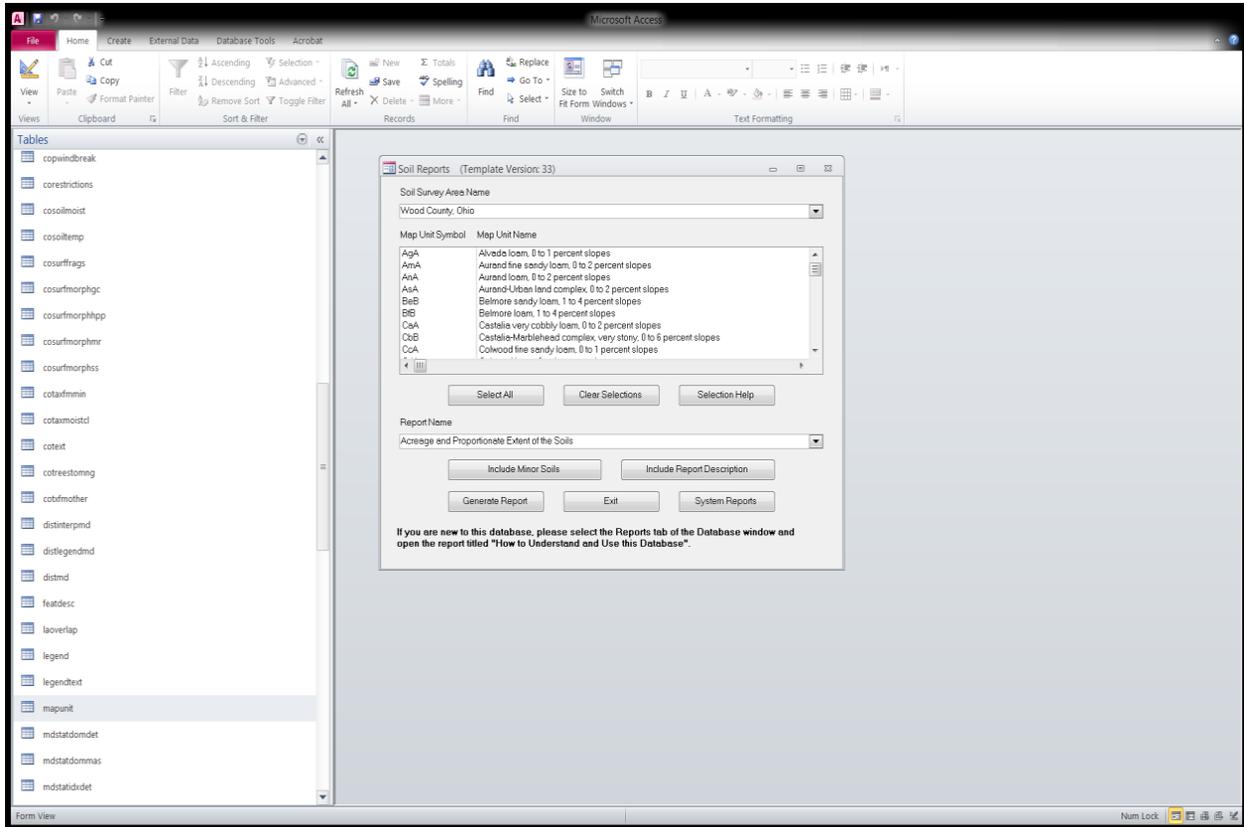
The SSURGO Template Database can run many of the same functions as the Soil Data Mart used to, but there are a few steps that must be taken first;

1. Go to your geodata drive and find the Soils folder for the county you want, and go into the tabular data folder. In that tabular data folder there should be an access database that will be named soil_d_XXXXX. In this case I am looking at Wood County, OH so it is named soil_d_oh173.

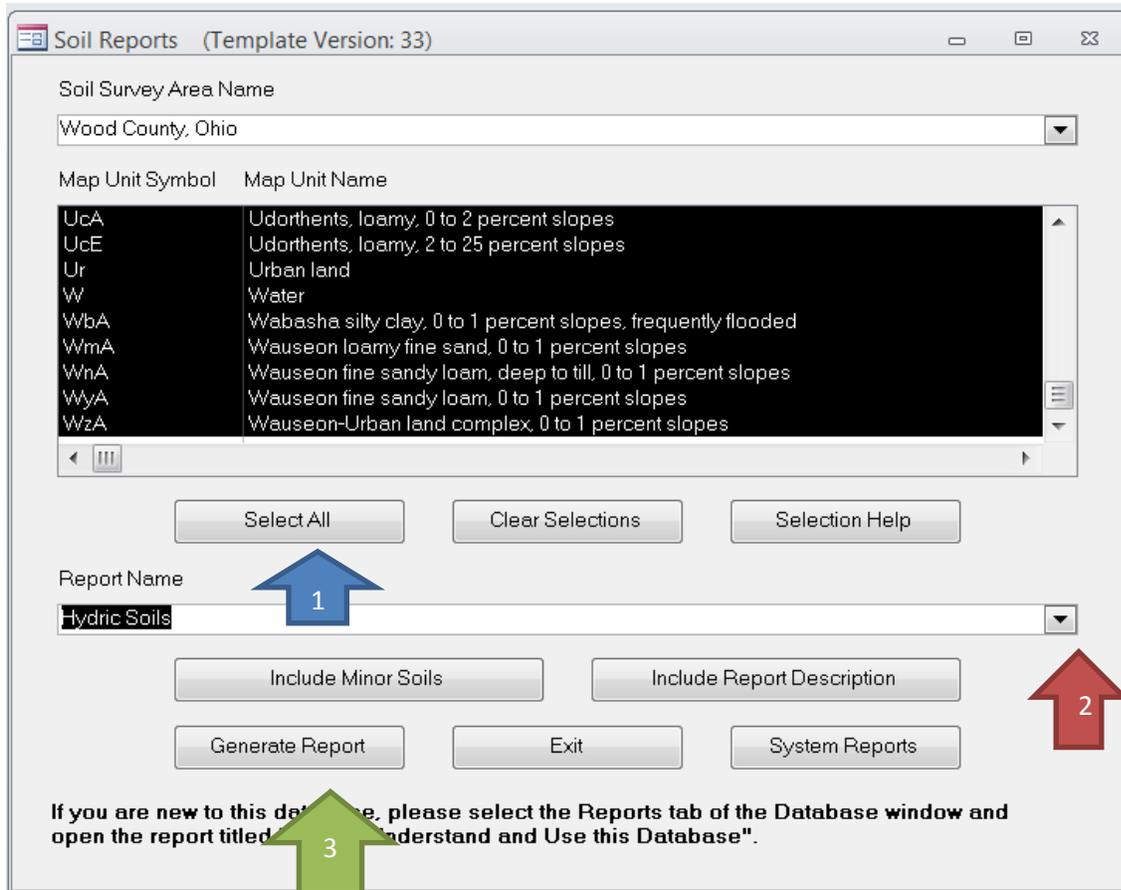


You will want to copy and paste this database onto your computer, as the geodata drive won't allow you to work off the F drive if you don't have permissions. Plus it's just easier to get to.

Go to where you saved the database and double click the database to start. The database should open up and look like the capture from the next page.

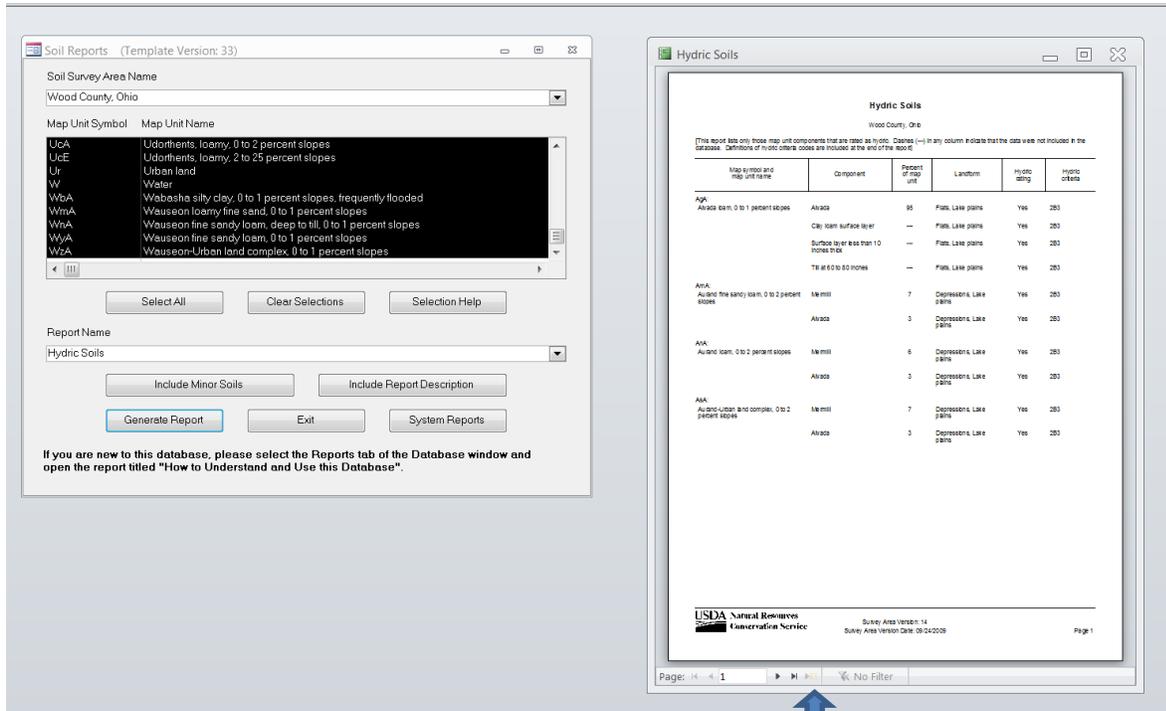


The tables in the pane to the left should not need to be accessed, simply work off the soil reports box in the right hand side. For those of you familiar with Soil Data Mart, this should be a breeze, but I will go on with a few tips and tricks that might be of help.



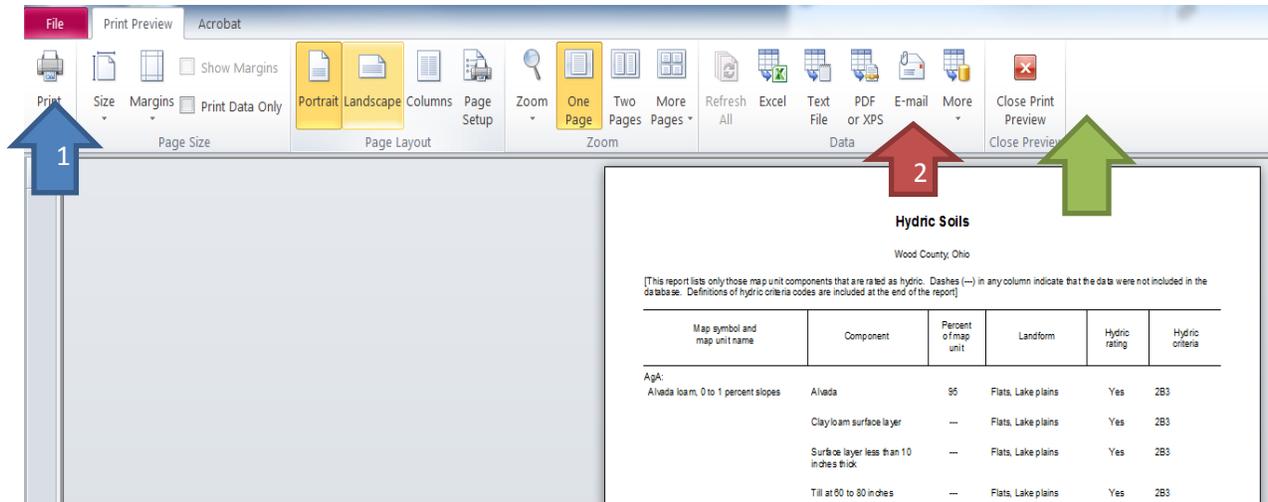
1. You can Select All to print county-wide lists or use control+left click to pick and choose mapunits
2. Use Report Name dropdown box to find the report you want.
3. For most reports, simply Click Generate Report

In this case I am using a simple report for Hydric Soils throughout Wood County
After Clicking Generate Report, I get the following output (see page 4)

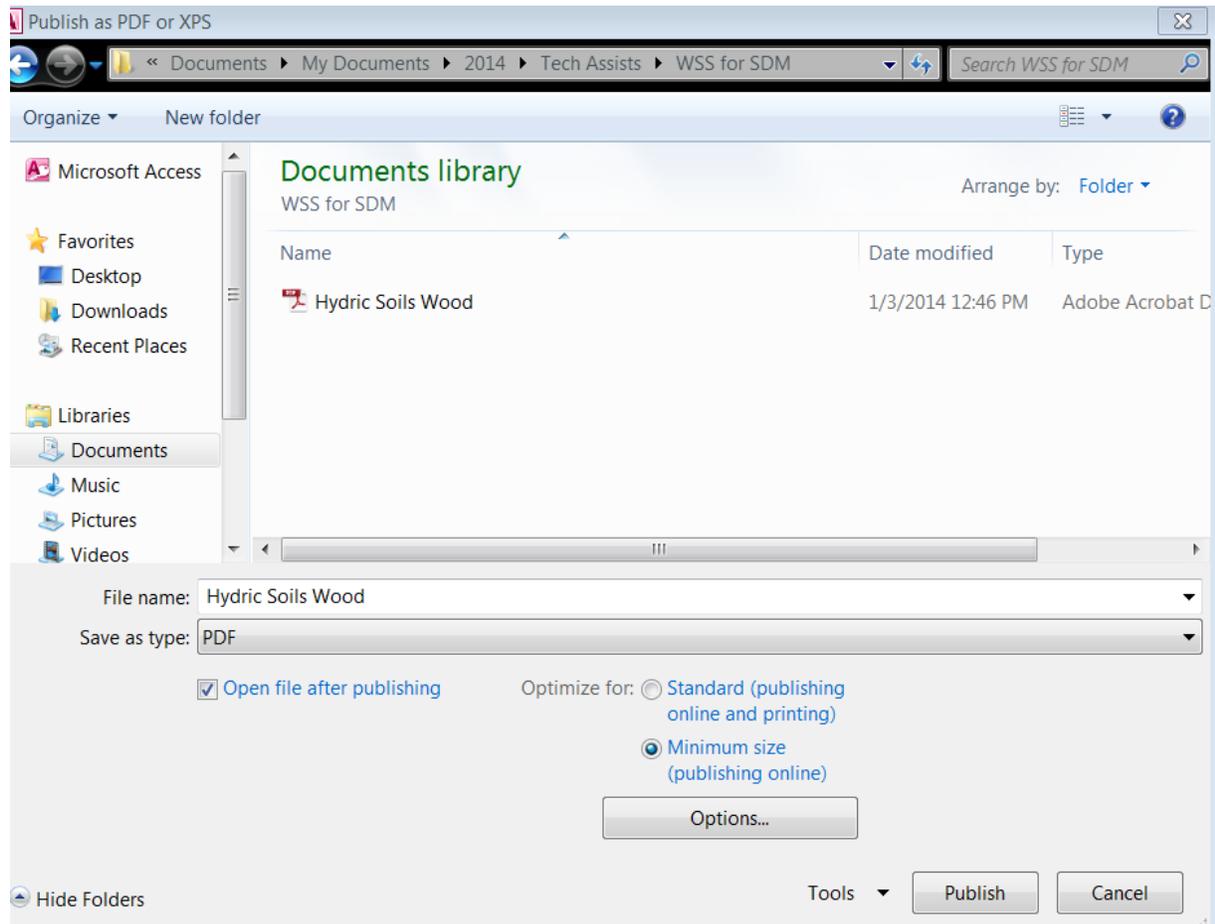


The Hydric Soils report comes up as its own window. The default is that the report comes up as a print preview. There are multiple pages here, and to see them all, you have to use the Right/left arrows at the bottom left of Hydric Soils Report (location by blue arrow above)

The next section (starting page 5) will show you how to use the default print preview commands to print or export as .pdf and save.

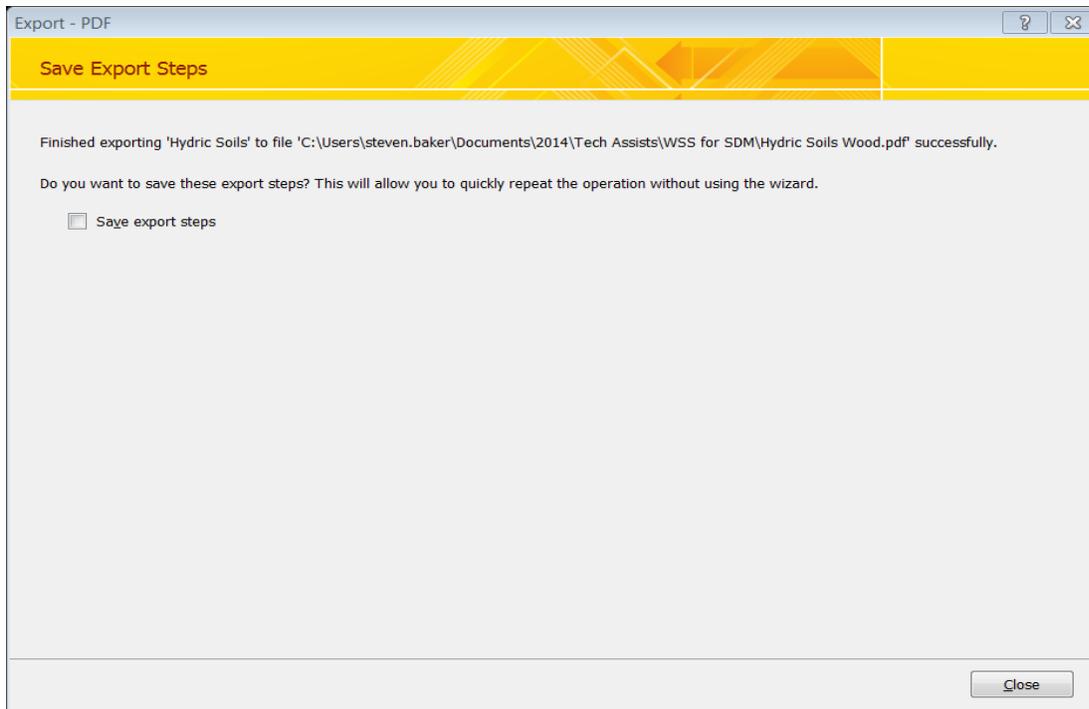


1. To print this out hard copy, just Click the print button and proceed as normal
2. To save as .pdf, click PDF or XPS button. You will then get a box that looks like the one below. Simply find where you want to save it, then click publish (effectively same as saving)



The program will pop up a box saying it's publishing x number of pages then open the file automatically. From here you can print also if you so desire.

Also you will get a command box that looks like this;



Simply close it, no need to save export steps.

To exit the print preview function, refer to page 5, green arrow. This will take you back to the main report screen shown on page 3.

From here you can run county wide reports such as Prime Farmland, Engineering Properties and RUSLE2 Related Attributes. See chart below for some commonly run reports and what they entail.

Commonly used County-Wide Reports in Template	
Report Name	
	Hydric Soils ¹
	Engineering Properties ²
	RUSLE2 Related Attributes ³
	Prime and Other Important Farmlands ⁴
	Map Unit Description (Brief,Generated) ⁵
1	Report Generates similar to Hydric Soil List all Components in WSS
2	Texture by Horizon, Unified & AASHTO Classes, Frags, Sieves, Liquid Limit, Plasticity Index
3	HSG, Kf, T, and Particle Size Separates
4	Shows only units designated as Prime, Prime if drained, Unique, Local etc.
5	Basic soil description in paragraph format

Advanced use of the SSURGO Template

The template can also be used to run interpretations of soil properties for a given land use or practice. In this case your report name will be "Selected Soil Interpretations" as shown below. These can be run on all soils or only selected map units. If run county wide this can be a very large report so it is better suited to selected mapunits. In this example I will just run the interpretations on a few map units.

Soil Survey Area Name
Wood County, Ohio

Map Unit Symbol	Map Unit Name
GpA	Granby loamy fine sand, till substratum, 0 to 1 percent slopes
HaA	Haney sandy loam, 0 to 2 percent slopes
HaB	Haney sandy loam, 2 to 6 percent slopes
HcA	Hoyville silty clay loam, 0 to 1 percent slopes
HdA	Haney loam, 0 to 2 percent slopes
HdB	Haney loam, 2 to 6 percent slopes
HeA	Haskins and Digby, till substratum, fine sandy loams, 0 to 2 percent slopes
HeB	Haskins and Digby, till substratum, fine sandy loams, 2 to 6 percent slopes
HfA	Haskins and Digby, till substratum, loams, 0 to 2 percent slopes

Select All Clear Selections Selection Help

Report Name
Selected Soil Interpretations

Include Minor Soils Include Report Description

Select Parameters Exit System Reports

If you are new to the database, please select the Reports tab of the Database window and open the report titled "How to Understand and Use this Database".

Now click on "Select Parameters" (red arrow)

You will get a screen that looks like this; (see next page)

Please select at least one soil interpretation to be included in the report. The first interpretation will be the leftmost in the report.

1st Interpretation		1st Interpretation Heading (<= 80 characters, change as desired)
<input type="text"/>	<input type="button" value="Reset"/>	<input type="text"/>
2nd Interpretation		2nd Interpretation Heading (<= 80 characters, change as desired)
<input type="text"/>	<input type="button" value="Reset"/>	<input type="text"/>
3rd Interpretation		3rd Interpretation Heading (<= 80 characters, change as desired)
<input type="text"/>	<input type="button" value="Reset"/>	<input type="text"/>
Report Title (<= 80 characters, change as desired)		
<input type="text"/>		
Selected Soil Interpretations		
<input type="text"/>		
<input type="button" value="Generate Report"/>	<input type="button" value="Help"/>	<input type="button" value="Exit"/>

You can now select interpretations that would have a direct bearing on the land use or practice that you are planning by using the drop down boxes. I chose the following three but you can do anywhere from 1-3;

Please select at least one soil interpretation to be included in the report. The first interpretation will be the leftmost in the report.

1st Interpretation		1st Interpretation Heading (<= 80 characters, change as desired)
<input type="text" value="ENG - Construction Materials; Sand Source (OH)"/>	<input type="button" value="Reset"/>	<input type="text" value="ENG - Construction Materials; Sand Source (OH)"/>
2nd Interpretation		2nd Interpretation Heading (<= 80 characters, change as desired)
<input type="text" value="ENG - Dwellings W/O Basements (OH)"/>	<input type="button" value="Reset"/>	<input type="text" value="ENG - Dwellings W/O Basements (OH)"/>
3rd Interpretation		3rd Interpretation Heading (<= 80 characters, change as desired)
<input type="text" value="FOR - Soil Rutting Hazard (OH)"/>	<input type="button" value="Reset"/>	<input type="text" value="FOR - Soil Rutting Hazard (OH)"/>
Report Title (<= 80 characters, change as desired)		
<input type="text"/>		
Selected Soil Interpretations		
<input type="text"/>		
<input type="button" value="Generate Report"/>	<input type="button" value="Help"/>	<input type="button" value="Exit"/>



Now click Generate report. (Blue Arrow above)

The report will generate as follows on page 9.

Note that the process for saving or printing these reports is the same as outlined on pages 4-6.

Selected Soil Interpretations

Wood County, Ohio

[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 report shows only the major soils in each map unit]

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

**This soil interpretation was designed as a "potential" or "suitability", as opposed to a "limitation". The numbers in the value column range from 0.00 to 0.99. The smaller the value, the greater the limitation.

Map symbol and soil name	Pct. of map unit	ENG - Construction Materials; Sand Source (OH)**		ENG - Dwellings W/O Basements (OH)*		FOR - Soil Rutting Hazard (OH)*	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
HaA: Haney	100	Poor Thickest layer Bottom layer	0.00 0.00	Not limited		Moderate Low strength	0.50
HcA: Hoytville	91	Poor Thickest layer Bottom layer	0.00 0.00	Very limited Ponding Depth to saturated zone Shrink-swell	1.00 1.00 0.50	Severe Low strength	1.00

These report ratings appear in the same manner as discussed in the Using WSS instructions. The advantage of using the WSS is that you can generate thematic maps to visualize suitable areas for the practice or land use.

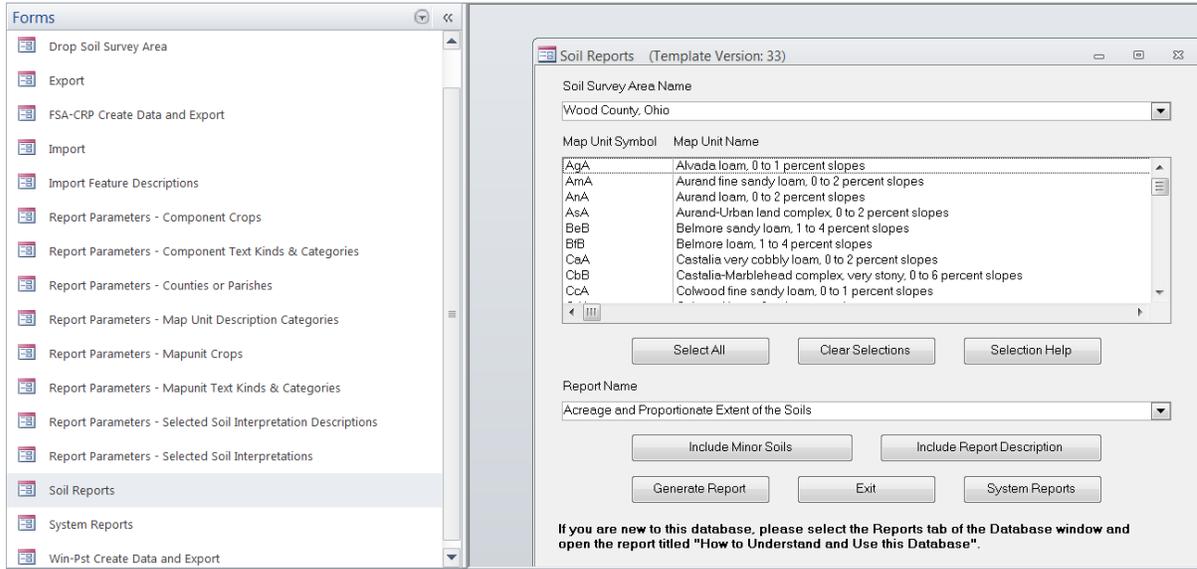
To dissect the ratings on this report a little, let's begin with Haney vs. Hoytville for Dwellings W/O basements;

Haney is rated as not limited (red arrow) because it has a lower water table, no ponding, and little shrink-swell issues in comparison to Hoytville. Hoytville's limitations in these categories show up in the table (blue arrow). If you were planning an Ag Chemical facility, the Haney site should be more suited than the Hoytville.

Along the same bend, the Hoytville is rated more severely than Haney for the Soil Rutting hazard. Both are considered low strength soils, but Hoytville is rated severely compared to Haney. Notice that Hoytville's value of one is higher than Haney's .5; this warrants the Severe (Hoytville) vs Moderate (Haney) Rutting Hazard.

Other Tips and Tricks;

1. If you happen to accidentally close the soil reports window, you can get it back by going to the Forms in the left hand pane of the Access Program. Double Click Soil reports to bring the window back



Or,

2. Close the Access Program and reopen it. It should open the Soil Reports Form by default.