TECHNICAL NOTES

November 5, 2012

MO-1 Technical Note Number 49

Re: NASIS - Importing NASIS data into MS Excel

Software used to make this technical note:

- Windows XP operating system
- NASIS 6.2
- Microsoft Excel 2007
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This technical note provides guidance in

- The three options for running reports in NASIS
- How to import NASIS 6.x data into MS Excel using NASIS export reports
- How to copy and paste data from NASIS into MS Excel

Notes:

- Many NASIS reports are written specifically for the purpose of creating a delimited text file that can be imported into spreadsheet or database software.
- These NASIS reports usually have the word “Export” or “Data Dump” in the report name. Data fields are generally delimited by either the pipe symbol (|) or colon (:).

Three Options for Running NASIS 6.x Reports

1. Run Against Local Database

- This is the option you will choose in most instances
- Only runs against data in your selected set
- Doesn't run against all of the data in your local database
- No parameter necessary
- Output is stored in C: \Documents and Settings\All Users\Application Data\USDA\NRCS\ITS\Nasis6.x\Temp
  - This is a protected folder and the reports are replaced every time you run a new version
  - **<u>If you wish to save a report, you will need to save it in a different location</u>**

2. Run Against National Database

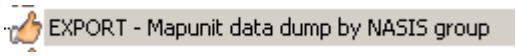
- Only used with reports that include a parameter or are coded to limit the results
- Reports that don't restrict the number of records in the output will run on the entire national database
- Output is stored in C: \Documents and Settings\All Users\Application Data\USDA\NRCS\ITS\Nasis6.x\Temp
  - This is protected folder and the reports are replaced every time you run a new version
  - If you wish to save a report, you will need to save it in a different location

3. Run Offline Against National Database

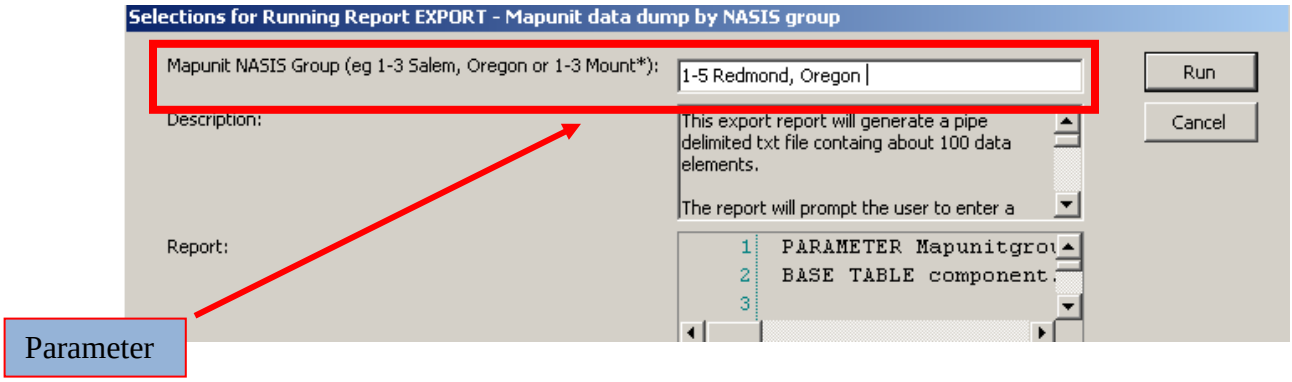
- Only used with reports that include a parameter or are coded to limit the results
- Reports that don't restrict the number of records in the output will run on the entire national database
- This option allows you to continue working in NASIS while the report runs offline against the national database
- Output is placed on the NASIS server and link to the report is emailed to you

What is a Parameter?

Parameters are fields that allow a user to select certain records from the database. For example, the following report has a parameter that allows the user to choose the map unit NASIS group prior to running the report. This means you can run it against the national database and only receive records that have a certain map unit NASIS group.



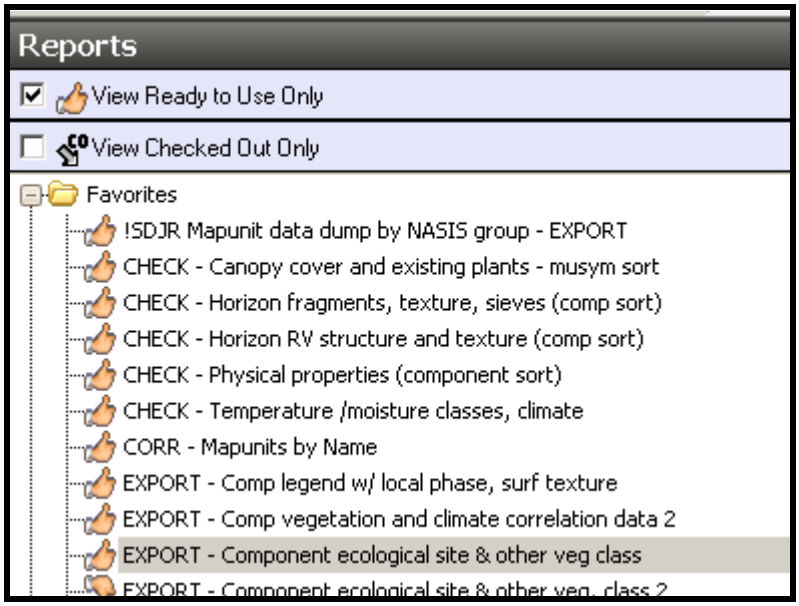
Below is what you see when you run the report against the national database.

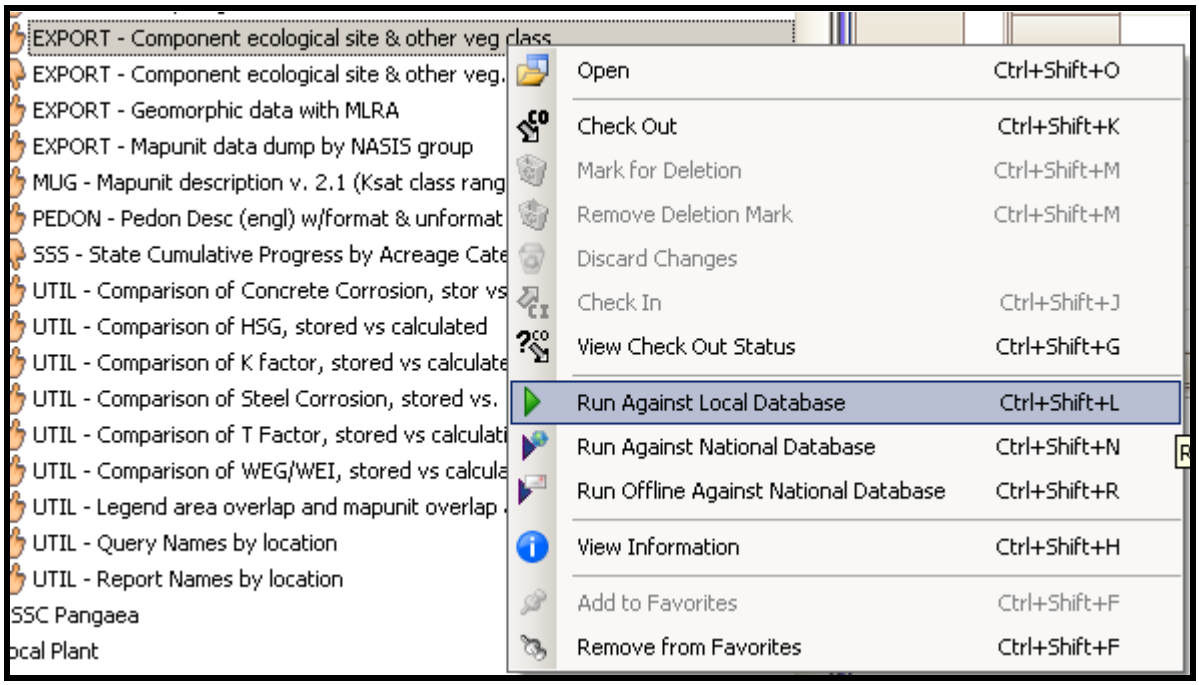


Instructions for Importing NASIS Reports Into Excel

1. Run a NASIS Export Report.

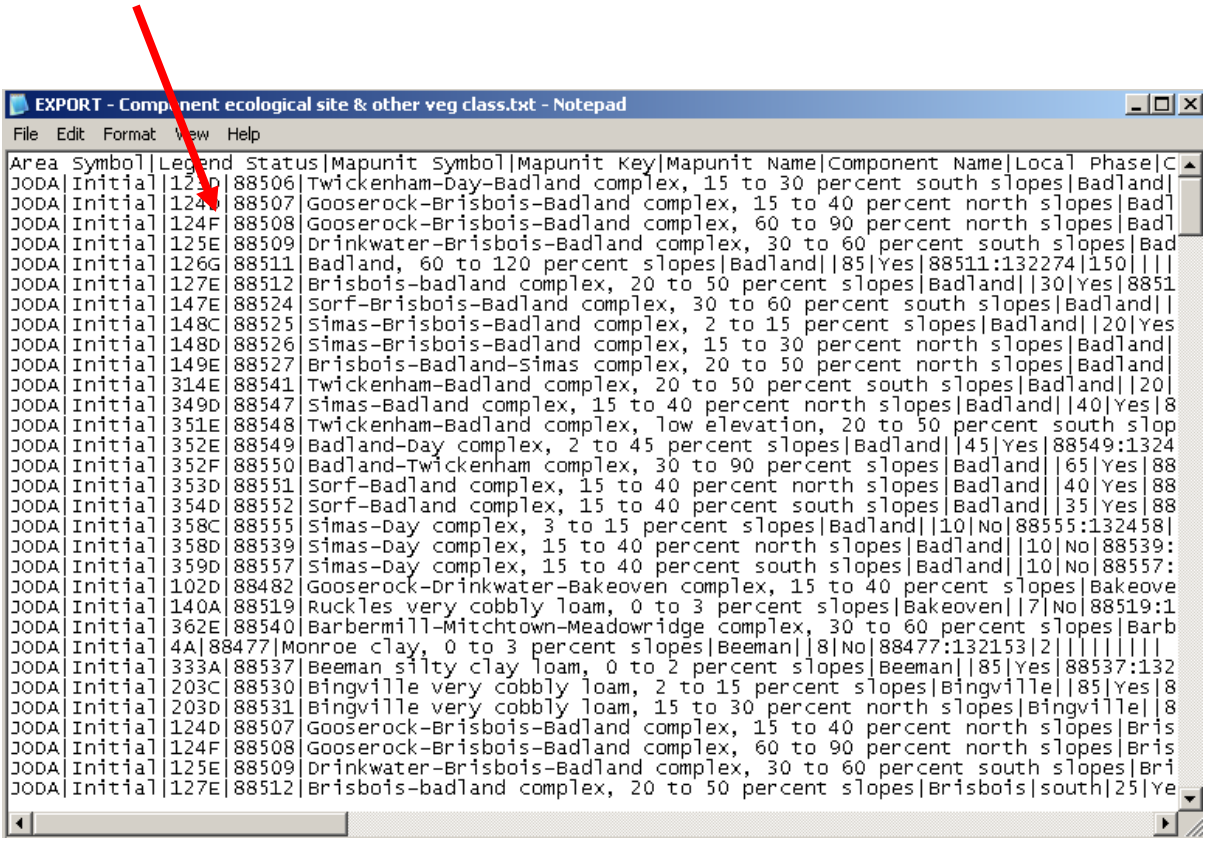
   - In this example I have loaded the JODA soil survey into my selected set and I will run the MLRA01_Office report called "EXPORT – Component ecological site & other veg class" *against my local database*



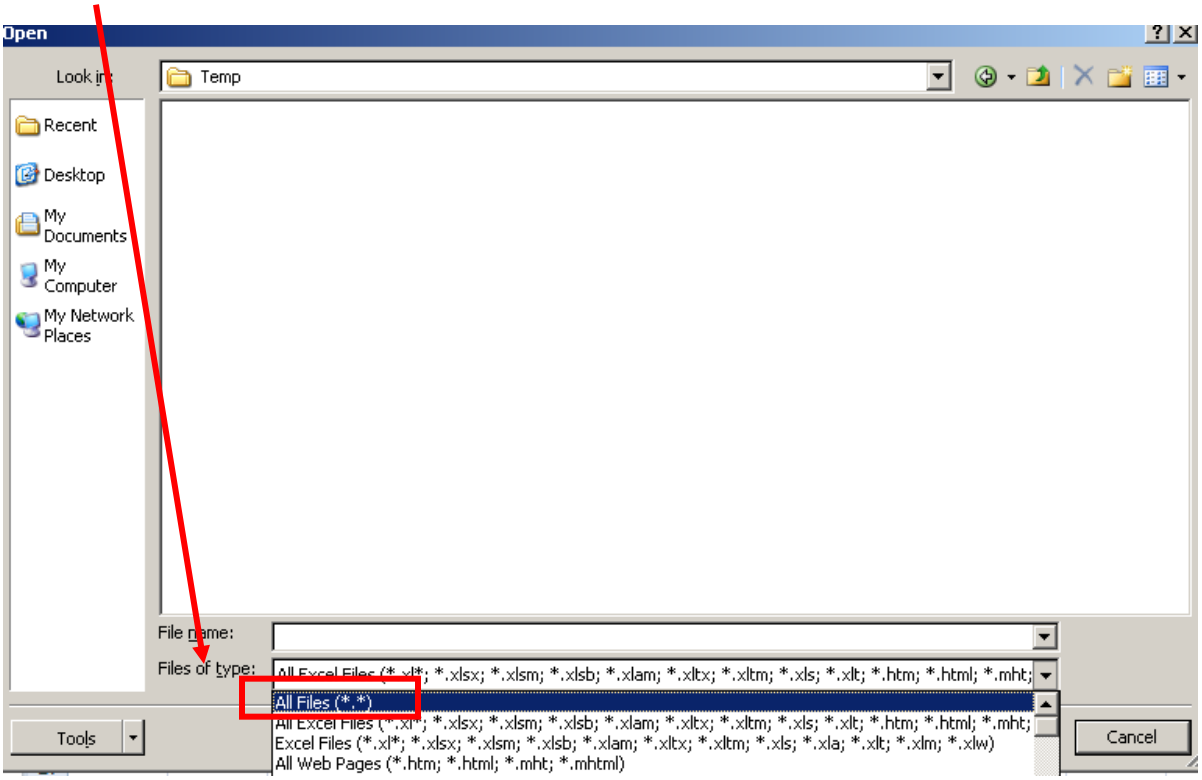


2. The report opens as a txt file in Notepad (unless you have changed the settings on your computer so all reports open in Microsoft Word by default). Close this file after it opens.

   Notice the pipe delimited fields.



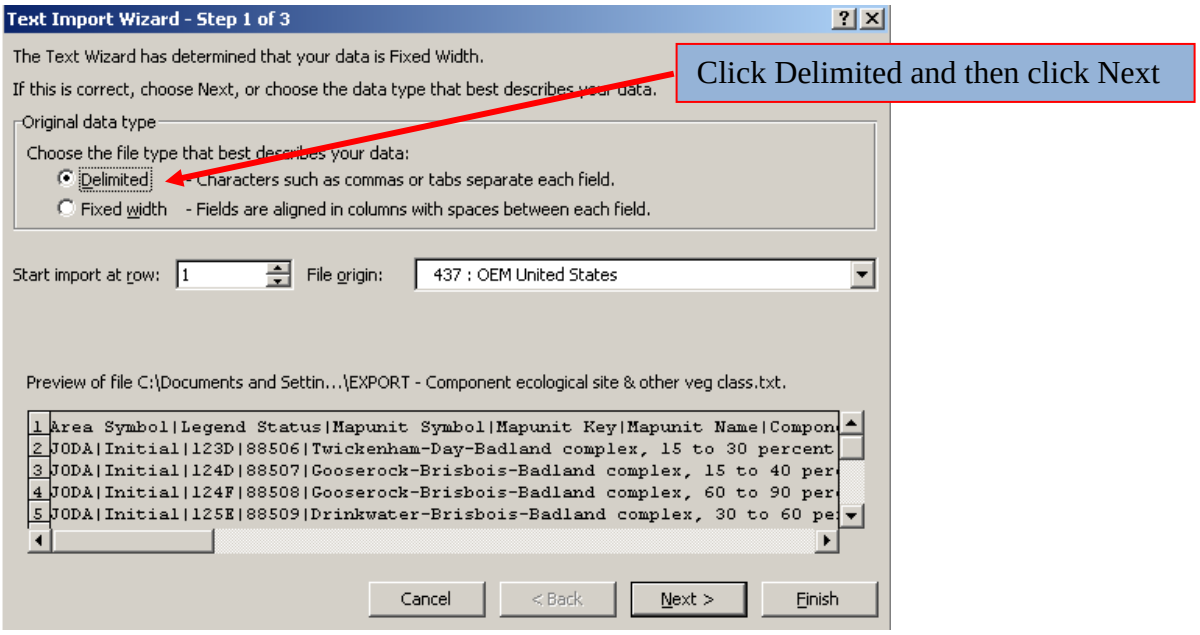
3. Start MS Excel Click File > Open and browse to your export report which is stored in C:\Documents and Settings\All Users\Application Data\USDA\NRCS\ITS\Nasis6.x\Temp
    - I recommend making a shortcut to this folder
    - You will need to change your "File of type" to All Files (*,*)

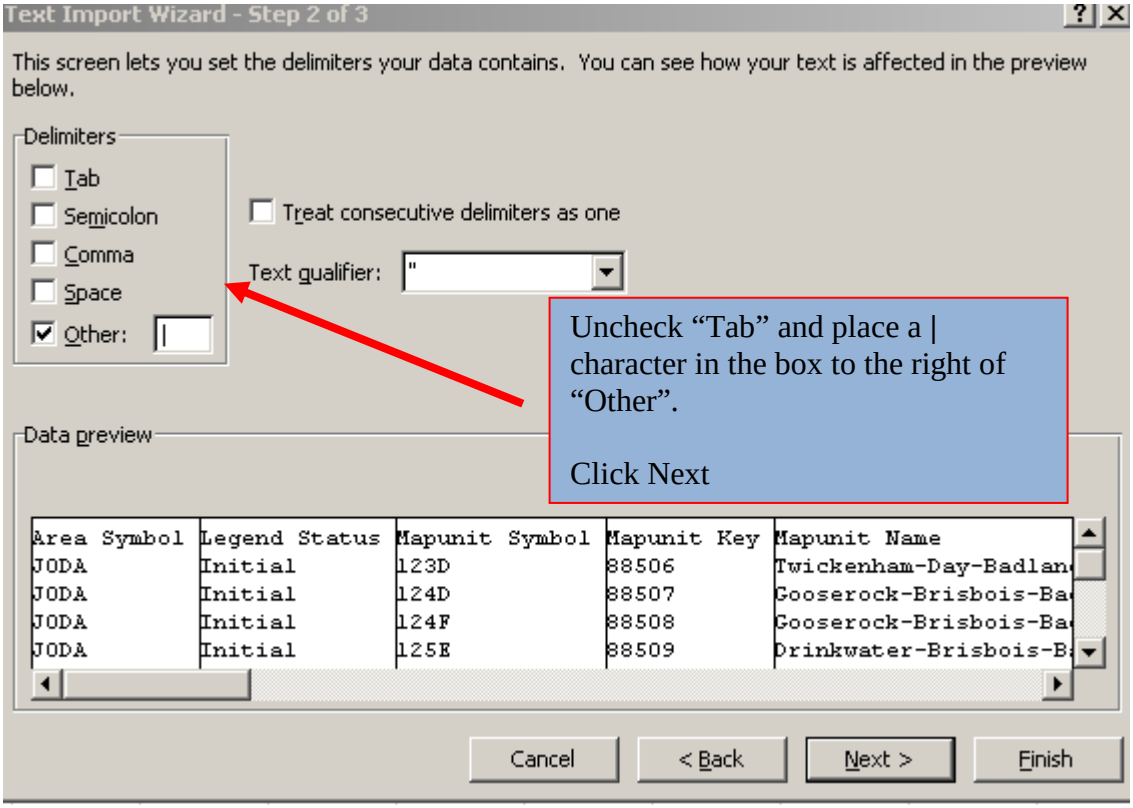


NOTES:

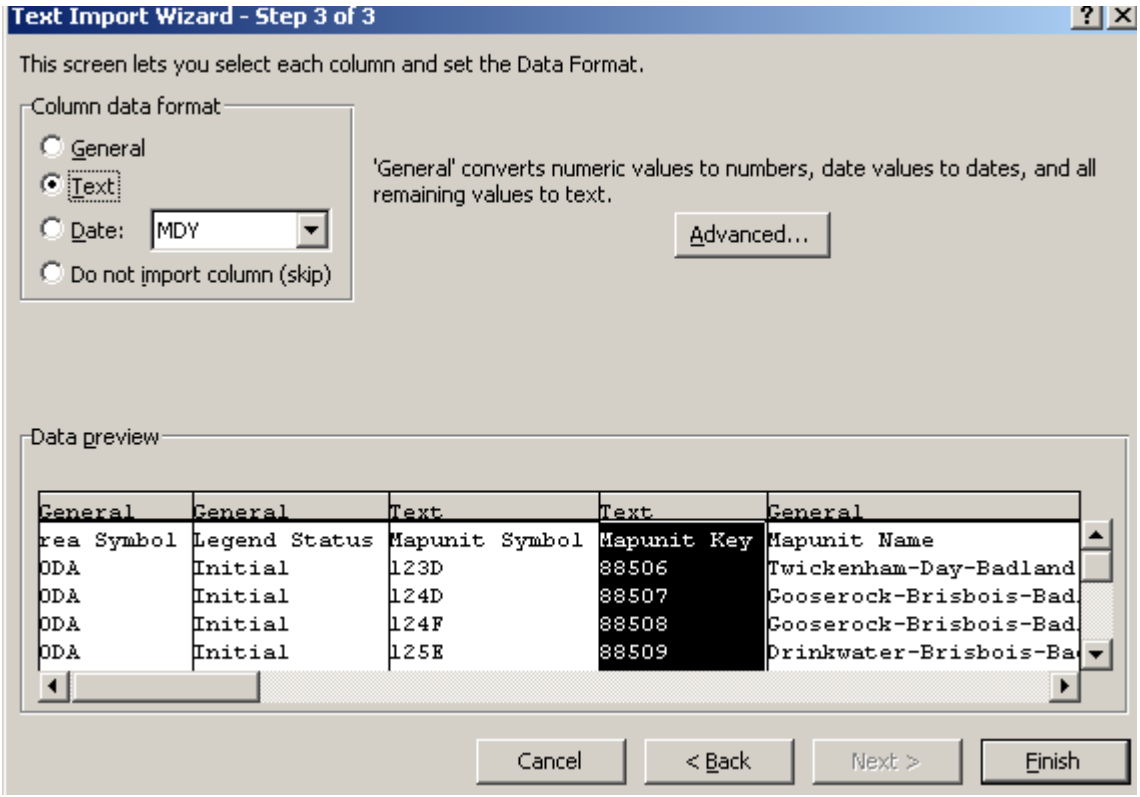
- If you run a report offline against the national database, you will receive an e-mail with a link to your report. You will need to save this report on your computer
- If you are using Windows 7, the report file will be stored in C:\ProgramData\USDA\NRCS\ITS\Nasis6.x\Temp

4. The following Text Import Wizard will appear after you open your report

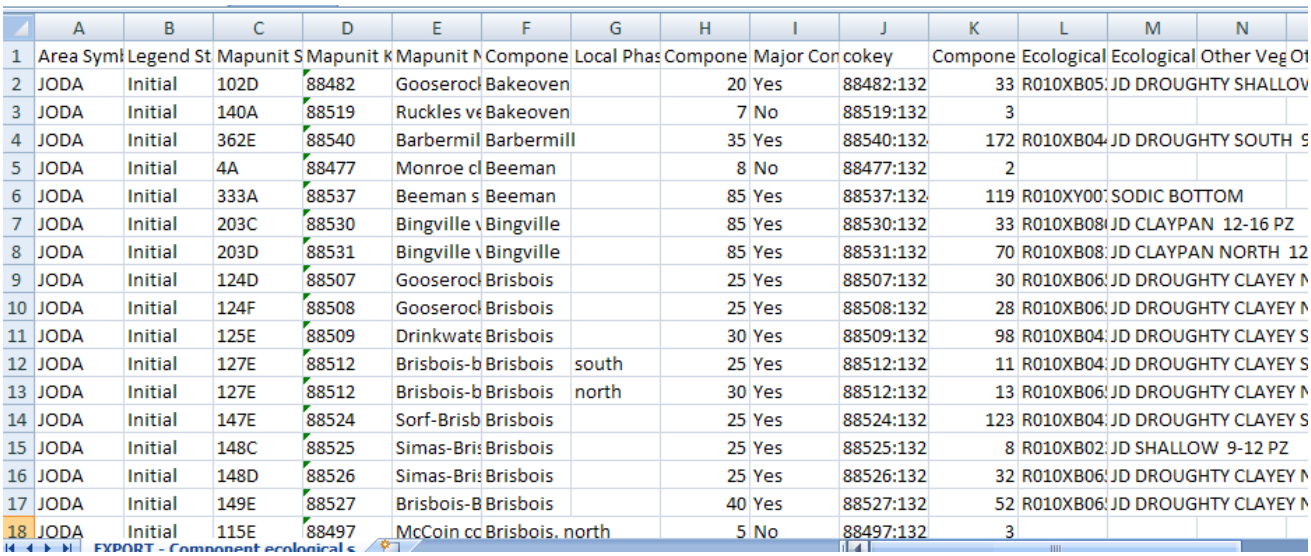




The default data format for all fields is general. If you plan on joining or relating the report to the soil polygon layer, select the Mapunit Symbol (MUSYM) and Mapunit Key (MUKEY) fields and change them to



5. The data is now imported into Excel and can be sorted or filtered using any of the Excel functions. It can also be joined to spatial data in ArcMap using the "musym" field.



	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Area Syml	Legend St	Mapunit S	Mapunit K	Mapunit N	Compone	Local Phas	Compone	Major Con	cokey	Compone	Ecological	Ecological	Other Veg Ot
2	JODA	Initial	102D	88482	Gooserock	Bakeoven		20	Yes	88482:132	33	R010XB05	JD DROUGHTY SHALLOV	
3	JODA	Initial	140A	88519	Ruckles ve	Bakeoven		7	No	88519:132	3			
4	JODA	Initial	362E	88540	Barbermil	Barbermill		35	Yes	88540:132	172	R010XB04	JD DROUGHTY SOUTH S	
5	JODA	Initial	4A	88477	Monroe cl	Beeman		8	No	88477:132	2			
6	JODA	Initial	333A	88537	Beeman s	Beeman		85	Yes	88537:132	119	R010XY007	SODIC BOTTOM	
7	JODA	Initial	203C	88530	Bingville v	Bingville		85	Yes	88530:132	33	R010XB08	JD CLAYPAN 12-16 PZ	
8	JODA	Initial	203D	88531	Bingville v	Bingville		85	Yes	88531:132	70	R010XB08	JD CLAYPAN NORTH 12	
9	JODA	Initial	124D	88507	Gooserock	Brisbois		25	Yes	88507:132	30	R010XB06	JD DROUGHTY CLAYEY N	
10	JODA	Initial	124F	88508	Gooserock	Brisbois		25	Yes	88508:132	28	R010XB06	JD DROUGHTY CLAYEY N	
11	JODA	Initial	125E	88509	Drinkwate	Brisbois		30	Yes	88509:132	98	R010XB04	JD DROUGHTY CLAYEY S	
12	JODA	Initial	127E	88512	Brisbois-b	Brisbois	south	25	Yes	88512:132	11	R010XB04	JD DROUGHTY CLAYEY S	
13	JODA	Initial	127E	88512	Brisbois-b	Brisbois	north	30	Yes	88512:132	13	R010XB06	JD DROUGHTY CLAYEY N	
14	JODA	Initial	147E	88524	Sorf-Brisb	Brisbois		25	Yes	88524:132	123	R010XB04	JD DROUGHTY CLAYEY S	
15	JODA	Initial	148C	88525	Simas-Bris	Brisbois		25	Yes	88525:132	8	R010XB02	JD SHALLOW 9-12 PZ	
16	JODA	Initial	148D	88526	Simas-Bris	Brisbois		25	Yes	88526:132	32	R010XB06	JD DROUGHTY CLAYEY N	
17	JODA	Initial	149E	88527	Brisbois-B	Brisbois		40	Yes	88527:132	52	R010XB06	JD DROUGHTY CLAYEY N	
18	JODA	Initial	115E	88497	McCoin cc	Brisbois, north		5	No	88497:132	3			

6. Save the spreadsheet as an xls or xlsx file type. ArcGIS 9.x only recognizes xls files. ArcGIS 10 recognizes both file types.

7. The procedure is similar for importing NASIS reports into MS Access. Click on File > Get External Data > Import, then browse to the NASIS report file. Many different types of file formats can be imported into Access, including Excel spreadsheets, delimited text files, and dbf files.

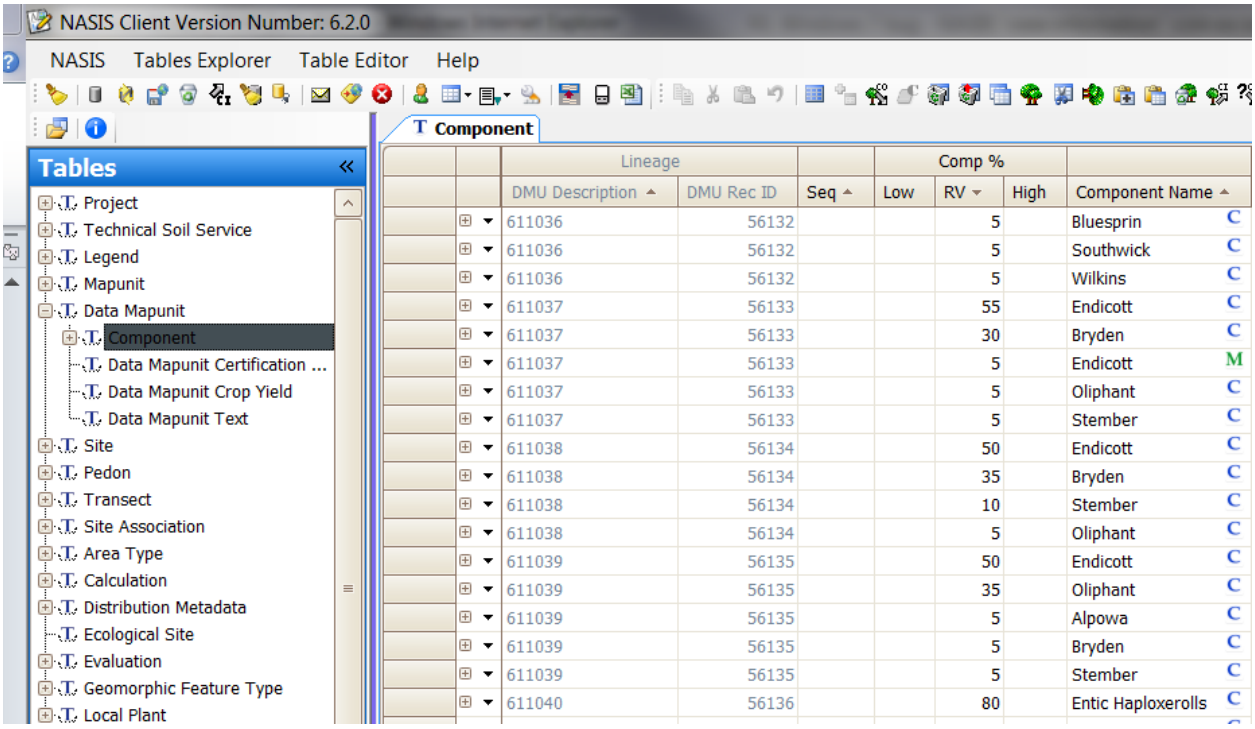
Instructions for Copying Data from NASIS and Pasting it Into Excel

1. Open NASIS

2. Load data into your selected set

3. Open the NASIS table that you want to copy

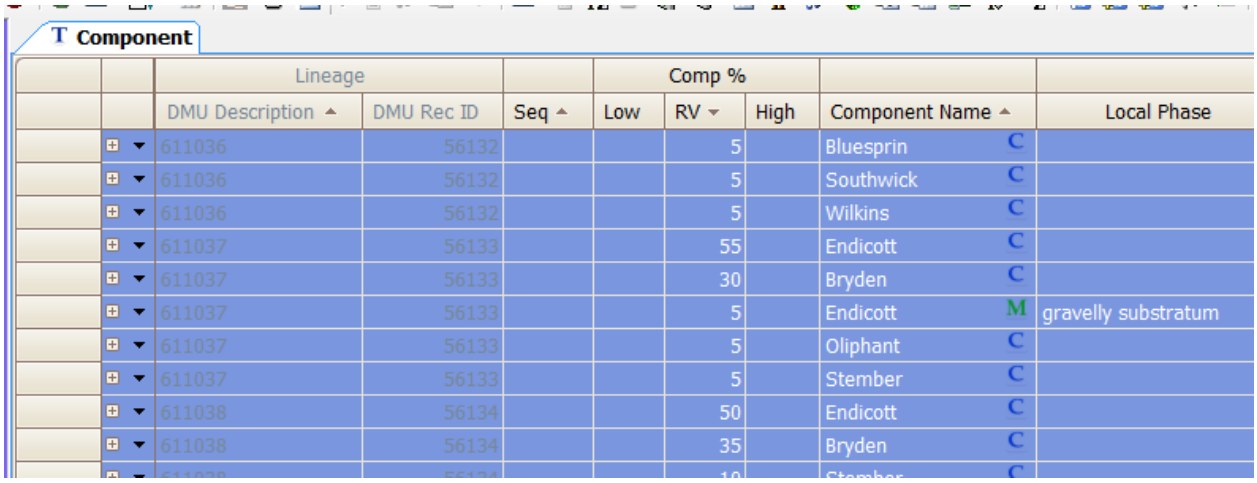
    - In this example, I have opened the component table and I will copy all of the data and paste it into Excel



4. Select the rows you want to copy.

    - I have selected all rows.

    - You can select all rows by clicking Table Editor > Select All Rows, or by clicking Ctrl A



T Component

	Lineage			Comp %				
	DMU Description	DMU Rec ID	Seq	Low	RV	High	Component Name	Local Phase
	611036	56132			5		Bluesprin C	
	611036	56132			5		Southwick C	
	611036	56132			5		Wilkins C	
	611037	56133			55		Endicott C	
	611037	56133			30		Bryden C	
	611037	56133			5		Endicott M	gravelly substratum
	611037	56133			5		Oliphant C	
	611037	56133			5		Stember C	
	611038	56134			50		Endicott C	
	611038	56134			35		Bryden C	

5. After you have selected your rows, hit the ctrl key and the C key (Ctrl C) on your keyboard. This will copy all rows to your clipboard.

6. Open Excel>right click in the A1 cell and click paste

A	B	C	D	E	F	G	H	I	J	K	L	M	
	DMU Desc	DMU Rec I	Seq	Low	RV	High	Componer	Local Phas	Taxon Kinc	Major Con	SIR phase	Low	R
	612Ag1	112121			70		Agatha		series	Checked		35	
	612Ag1	112121			15		Rock outcrop		miscellane	Checked		35	
	612Ag1	112121			6		Kettenbach		series	Unchecked		35	
	612Ag1	112121			5		Gwin		series	Unchecked		35	
	612Ag1	112121			4		Carlinton		series	Unchecked		15	
	612Ag1,61	578431			75		Agatha		series	Checked		25	
	612Ag1,61	578431			10		Gwin		series	Unchecked		20	
	612Ag1,61	578431			10		Rock outcrop		miscellane	Checked		25	
	612Ag1,61	578431			5		Kettenbach		series	Unchecked		20	
	612Bp1	112145			45		Gwin		series	Checked		35	
	612Bp1	112145			40		Kettenbach		series	Checked		35	
	612Bp1	112145			10		Rock outcrop		miscellane	Unchecked			
	612Bp1	112145			5		Keuterville		series	Unchecked		35	
	612Bp2	112146			45		Kettenbach		series	Checked		35	
	612Bp2	112146			30		Keuterville		series	Checked		35	
	612Bp2	112146			12		Gwin		series	Unchecked		35	
	612Bp2	112146			6		Rock outcrop		miscellane	Unchecked			

- The information in the component table is now pasted into Excel.
- Notice that the headers are automatically included when the data is pasted into Excel