

- 1. Bringing Clean Data back into SMS
  - a. Locate the .txt file that was created from the USDA Yield Editor software and take note of the file location.
  - b. Open Ag Leader SMS, and then open the project name that the cleaned yield file will go into.
  - c. Once SMS is opened, click on the **Read Files** icon in the upper left portion of SMS.



d. Once the new window opens for reading in new files, select **Import File from a Generic Source** and then click on the **Start Importing Generic Files button**.

Select One of the	e File Reading Options Below
	Read File(s) from a Supported Field Display or Monitor This option should be selected to read in a file(s) that were logged or created by or for a Field display (i.e. Ag Leader Insight, Case IH Pro600, JohnDeere GS2, New Holland IntelliView Displays)
	Sync/Import Projects from SMS Mobile This option should be selected to sync or import SMS Mobile Projects and their data to your software
	Import a File from a Generic Source This option should be selected to import a file such as an image, generic Shape or MID/MIF file, or text based files such as Soil Lab Results or Management Item Lists
	Start Importing Generic Files Cancel Help

e. In the Select File Import Method window, select Text Files form the list on the left hand side and then highlight the Tab Delimited text (\*.txt) file format. Then click on the Select Files to Import button to choose the file to be imported. Note: The USDA Yield Editor software allows us to export either a .txt file or .csv file. You can import either file format during this step, just be sure to import the appropriate file format here before continuing to choose the file.



Selec	t File Import Method	
۲	Select a File Format/Type to Import	
	3D Surface Files	Search for ALL File Formats Below Comma delimited text (*.csv)
	Images	Dbase (*.dbf) Tab delimited text (*.txt)
	Management Items Files (Product Lists)	
	MapInfo MID/MIF File	
	Non-Spatial Files (Lab Results)	
	Shape File	
	Text Files >>	
	TIGER Files	
$\odot$	Import a File Using a Saved Template	
		Browse
	Select File(s) to Import	Cancel Help

f. In the File selection window, locate the .txt cleaned yield file that we took note of at the beginning of this tutorial and select that file. Once selected, open the file.

🚾 Open						l	x
🕒 🗢 📕 🕨 SMS Tuto	rial 🕨			👻 🍫 S	earch SMS Tutorial		P
Organize 🔻 New folde	er				• ==		0
☆ Favorites	Name	Date modified	Туре	Size			
📃 Desktop	🐌 CL0186a1	7/1/2013 4:24 PM	File folder				
🗼 Downloads	🐌 CL0186a3	7/1/2013 4:24 PM	File folder				
Recent Places	PFDATA	7/1/2013 4:24 PM	File folder				
	PFLINES	7/1/2013 4:24 PM	File folder				
🥽 Libraries	📄 jen	7/8/2013 12:18 PM	Text Document	4,390 KB			
Documents	Jenny_Tutorial_Cleaned	7/12/2013 5:29 PM	Text Document	787 KB			
J Music	Tutorial_Jenny_1002_SMS_Advanced	7/8/2013 12:17 PM	Text Document	2,809 KB			
Pictures	Tutorial_Jenny_1002_Tab_delim	7/8/2013 12:20 PM	Text Document	4,390 KB			
🚼 Videos							
P Computer 실 Local Disk (C:)							
1							
File na	ame: Jenny_Tutorial_Cleaned			▼ Ta	b delimited text(*.txt	:)	•
					<u>O</u> pen  ▼	Cancel	

g. In the window that comes up after selecting the file, choose the appropriate formatting characteristics of the file we wish to import. For this example, notice that the file columns are separated by commas with no spaces, so choose **Comma Delimited** 



**Records**. This will allow SMS to segregate the information by columns. After checking the format characteristics, click **OK**.

Select Text Format		x
File Preview : C: \Users\smarx2\Desktop\SMS Tutorial\Jenn	y_Tutorial_Cleaned.txt	
42.33223000, 98.13594400, 10.484, 11.5 42.33224300, 98.13593900, 5.720, 11.5 42.33226000, 98.13593100, 7.885, 11.5 42.33227900, 98.13592400, 11.024, 11.5 42.33229500, 98.13591700, 11.608, 11.5 42.33231100, 98.13591300, 11.771, 11.5 42.3323100, 98.1359100, 10.109, 11.5 42.33234800, 98.1359100, 11.024, 11.5 42.33236700, 98.13590400, 15.600, 11.5		4
Record Format	Header Format	
Omma Delimited Records	Number of Header Lines	
Space Delimited Records	1	
Tab Delimited Records	Select Column Header Line	
Semicolon Delimited Records	Line 1	
Ignore Consecutive Delimiters	Column Data Format Decimal Separator	
	None	
	Date Format	
	MDY 🗸	
OK Cancel Help		

h. In the next window, choose the Latitude and Longitude in the drop down boxes based on the columns of the imported file. Then Click on the **Finish** button.

lect Lat	/Lon Columns	-			X
Select	Latitude Column		Select	t Longitude Column	
42.33223000			-98.1	13594400	•
1	42.33223000	-98.1359440	10.484	11.5	
2	42.332243	-98.135939	5.72	11.5	
3	42.33226	-98.135931	7.885	11.5	
4	42.332279	-98.135924	11.024	11.5	
5	42.332295	-98.135917	11.608	11.5	
		< Back	Finish	Cancel	Help



i. This will give us a preview of what the imported file will look like. This is a good time to do a sanity check to make sure that the field at least looks correct. Note: If you forgot to uncheck the UTM coordinates and check the Lat/ Lon coordinates during the export process of Yield Editor software, the map of the field will not look like the original. If the map looks correct, click on the **Next** button.

Import Preview	
0 480ft N ♥ Enable Outline	
	< Back Next > Cancel Help

j. The next window will give us some options on how we want to import the data. For example this particular set of data is yield data, so we can choose **Grain Harvest** in the top drop down box. Click **Next** after choosing the appropriate data type.

@ • • • • •					
Add to Managemen	t Hierarchy				
Management Inf	ormation				
Imp	ort Data Type	Grain Harvest		•	
Set as Frozen F	Field Boundary				
Add as a Possible M	ap Background				
Map Background					
t	Description				

k. The next window gives the ability to assign different attributes for the data set. From the .txt file that was created from the USDA Yield Editor software, the third column was



our cleaned yield value. The yield value (Estimated Volume (Dry)) can now be assigned based on the column of the cleaned yield file. Be sure to not only designate the file column but also the units for that column, for this example it's yield so bu/ac is the desired units.

Item	File Column		Column Un	it	Save Template
Crop Flow (Mass)	Not Assigned	-	Not Assigned	-	Save remplate
Moisture	Not Assigned	-	Not Assigned	-	
Distance	Not Assigned	-	Not Assigned		
Swath Width	Not Assigned	-	Not Assigned		
Duration	Not Assigned	-	Not Assigned	-	
Yield Mass (Wet)	Not Assigned	-	Not Assigned	-	
Estimated Volume (Dry)	Not Assigned	-	Not Assigned	-	
olumn Name 10.484 11.5					
olumn Name 10,484 11.5 tribute Name					
olumn Name 10.484 11.5 tribute Name its For					
blumn Name 10.484 11.5 tribute Name its For s.72 11.5					
Dumn Name 10.484 11.5 tribute Name its For 5.72 11.5 7.885 11.5					
blumn Name 10.484 11.5 tribute Name its For 5.72 11.5 7.885 11.5 11.024 11.5					
blumn Name tribute Name nits For mple row 5.72 11.5 7.885 11.5 11.024 11.5					
blumn Name 10.484 11.5 tribute Name its For 5.72 11.5 7.885 11.5 11.024 11.5					

After verifying the dataset is properly assigned, click **Next**.

gn Columns to Import			
Required Attributes to Import Op	otional Items to Import		Load Template
Item	File Column	Column Unit	Save Template
Estimated Volume (Dry)	10.484	bu/ac 🔽	Save remplater
Column Name 10.484 11.5			
Units For bu/ac			
Sample row 5.72 11.5			
7.885 11.5			
		< Back Next >	Cancel Help
		V DALK IVEXT >	



I. The next window allows us to clip to a field boundary if we wish. For this example I will leave it at the default of **No Clipping** and then **Next**.

Import Clipping Options				X
Select the options for clipping an	d acquiring the import file(s).			
Clip by Field	eld Boundaries			
Clip by Farm				
No Clipping - Import Entire Fil				
Expand Clip area by	+0% *			
		< Back Next	> Cancel	Help

m. The next step allows us to choose where we want the data to go as per the hierarchy Grower/Farm/Field. If the Lat/Lon coordinates are correct, you should be able to click on Auto-Select Grower/Farm/Field and the correct information should auto populate in the drop down boxes. You will have to choose the correct year or it will auto populate to the current year, as well as select the product or it will remain blank. After verifying all the information is correct, click **Next** to continue.

agement selection			 	-	
Auto	-Select Grower/Farm/Field				
Select Grower					
Tutorial Grower	<ul> <li>Add New</li> </ul>	Edit			
Select Farm					
IENNY	<ul> <li>Add New</li> </ul>	Edit			
Select Field					
1002	<ul> <li>Add New</li> </ul>	Edit			
Select Year					
2004	✓ Add New	Edit			
Select Operation					
Grain Harvest	•	Edit			
Select Operational Instan	ce				
Harvest - 1	<ul> <li>Add New</li> </ul>	Edit			
Select Product					
SOYBEANS	✓ Add New	Edit			



n. The next window will give a summary of the import information for us to verify it is correct. If it is, click **Finish** to import the cleaned data.

o. This will generate a new set of data under the Grow/Farm/Field under the Project Workspace Management Tree. Expand the attribute file of our cleaned data set.



p. Once we see that our data imported, we can do a quick check to verify that it looks correct on the map. Single click on Harvest-1 of the cleaned data set and then click on



**Create New Map** under the Preview window. Tis will add the map to the current layer. If you have an aerial image for a background, the new map should line up correctly.



q. If you want to quickly compare the cleaned data set to the original, you can do so by selecting the original harvest data from the management tree and then select Add to Current Map. The use the transparency scroll bar on the right to make the original data transparent to the cleaned data. This simply verifies fitment of the new data and gives us a quick visual representation of what the cleaned data look like in comparison to the original.



r. This completes the Import Cleaned Data tutorial.