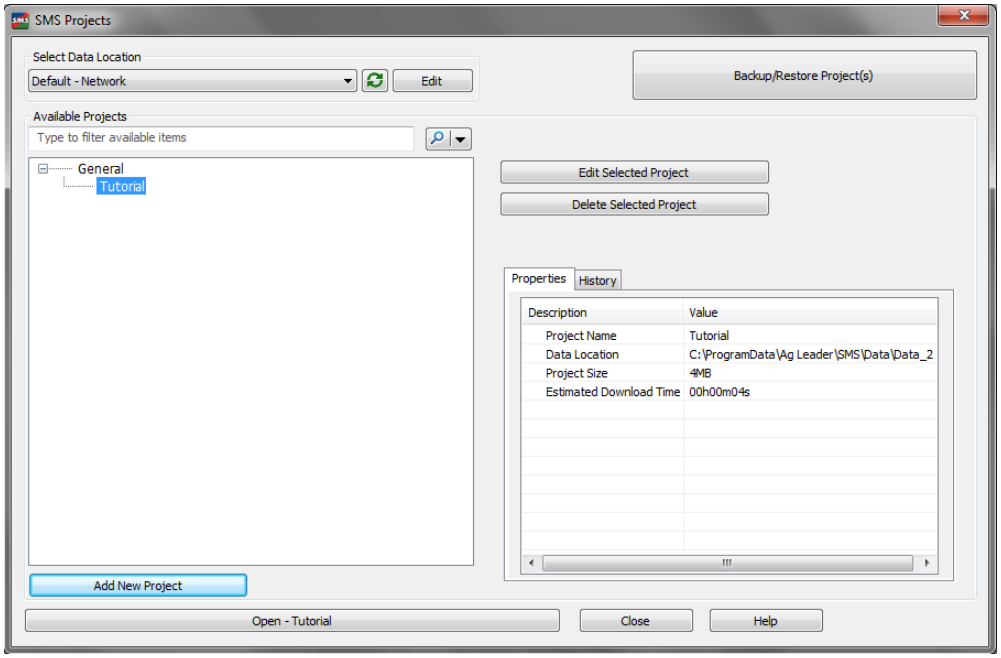
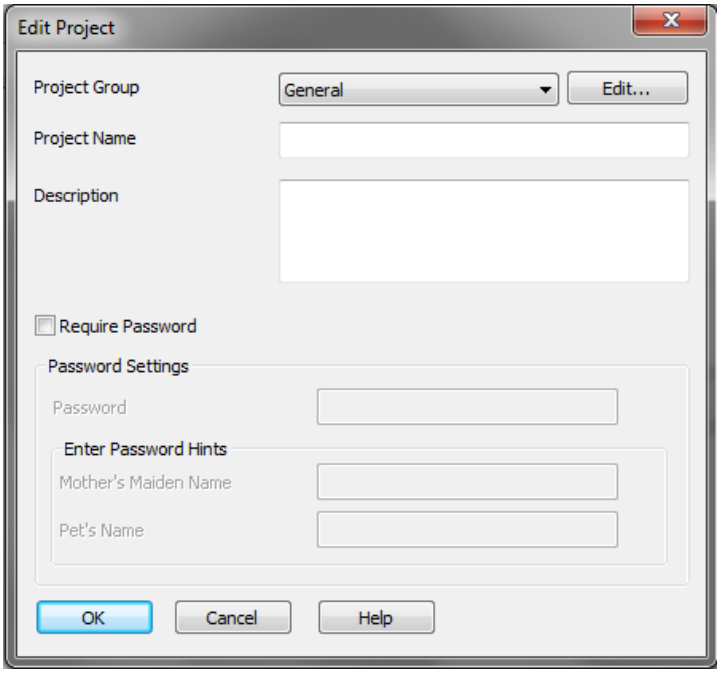
1. **Bringing in the data to SMS**
   a. Open SMS Advanced and **Add a New Project**.

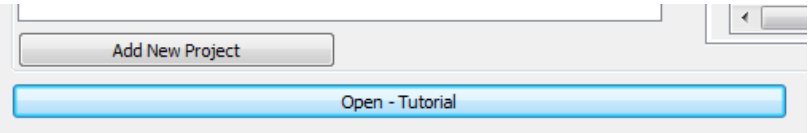


   b. On the box that comes up after clicking "Add New Project" click **OK** to Create Empty Project, then in the following pop-up, name the project.



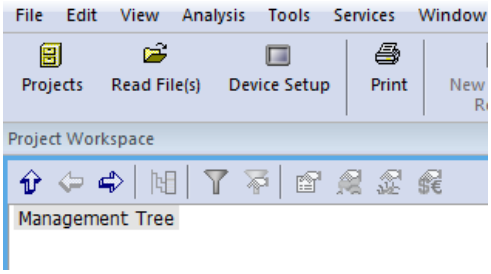
This name will be the name of this individual project. Under this project, you can add different farms and different fields, so you may only need one project. During this step you also have the option to add a password if desired. After naming the new project, click **OK**.

c. The project will now show up in the Available Projects tree. When you see the project that you just added, highlight the project name by single clicking on it. Once the desired project name is highlighted, you can then open the desired project. In the case of the image below, the project name is Tutorial.

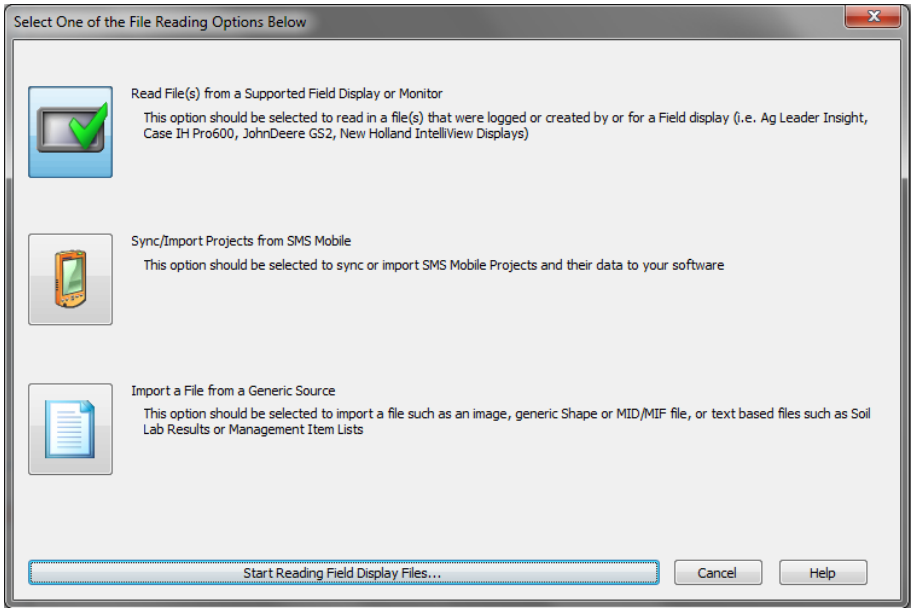


Now open the project you just created by clicking on **open- "project name."**

d. After creating and opening the new project, we can begin to read in our collected data. Click the **Read Files** button near the top of the program.

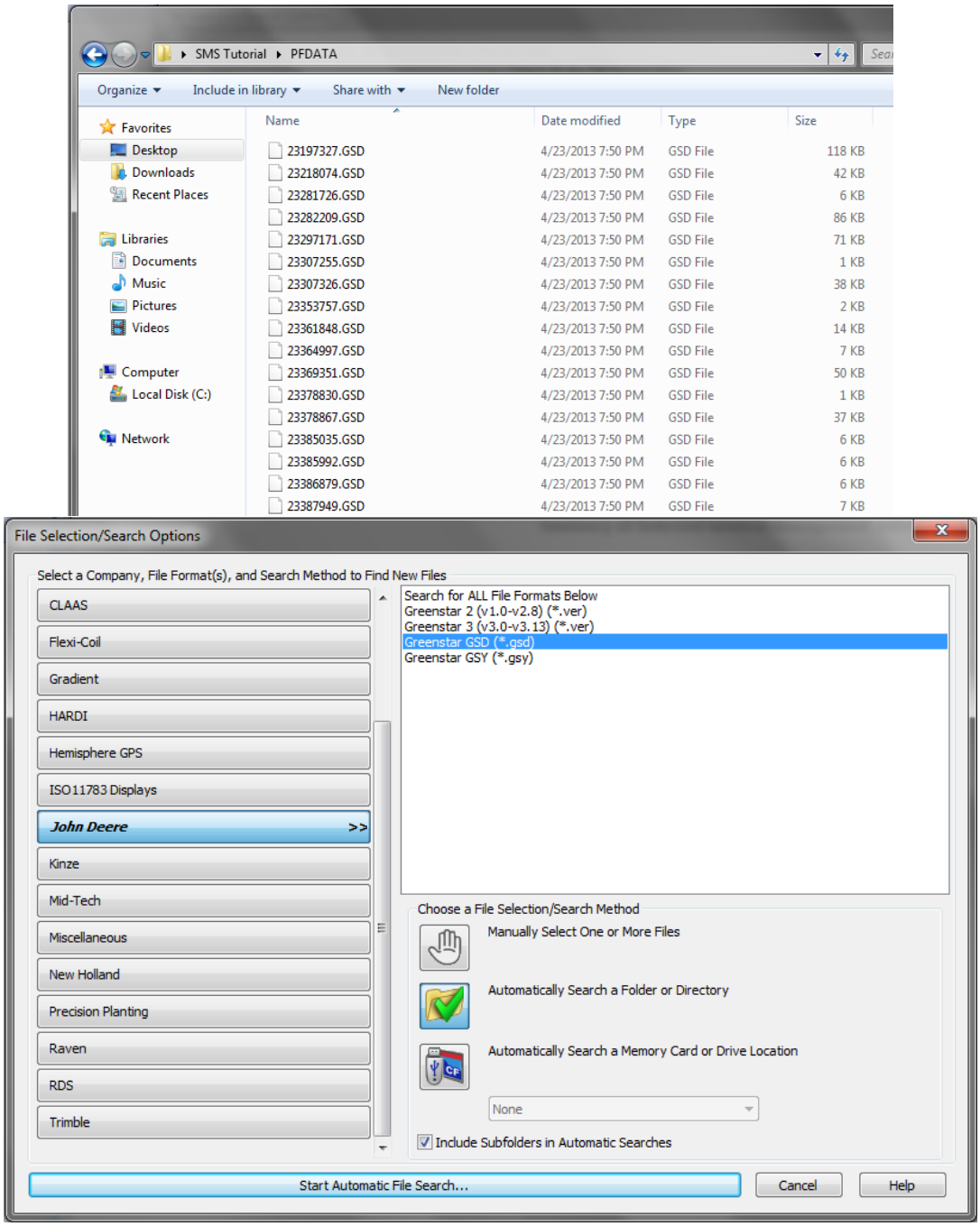


SMS has the ability to read files from various sources including files from supported displays, SMS Mobile, and generic files.



For this tutorial we will want to choose the read files from a supported display option. Click on the picture of the display to highlight it, and then click **Start Reading Field Display Files** at the bottom.

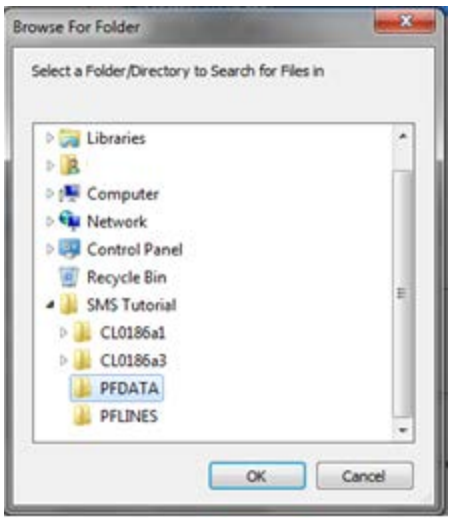
e. SMS has the ability to read files from various manufacturers as well as various displays within those manufacturers. A good way to verify that you are reading in the correct file format is to match the data file format listed in SMS to the data file format in your file folder.



In the above images, you can see that the data from the card is from an Original Greenstar Display from John Deere. The file format from the card is .GSD and the file choices in SMS under John Deere include this .GSD format.

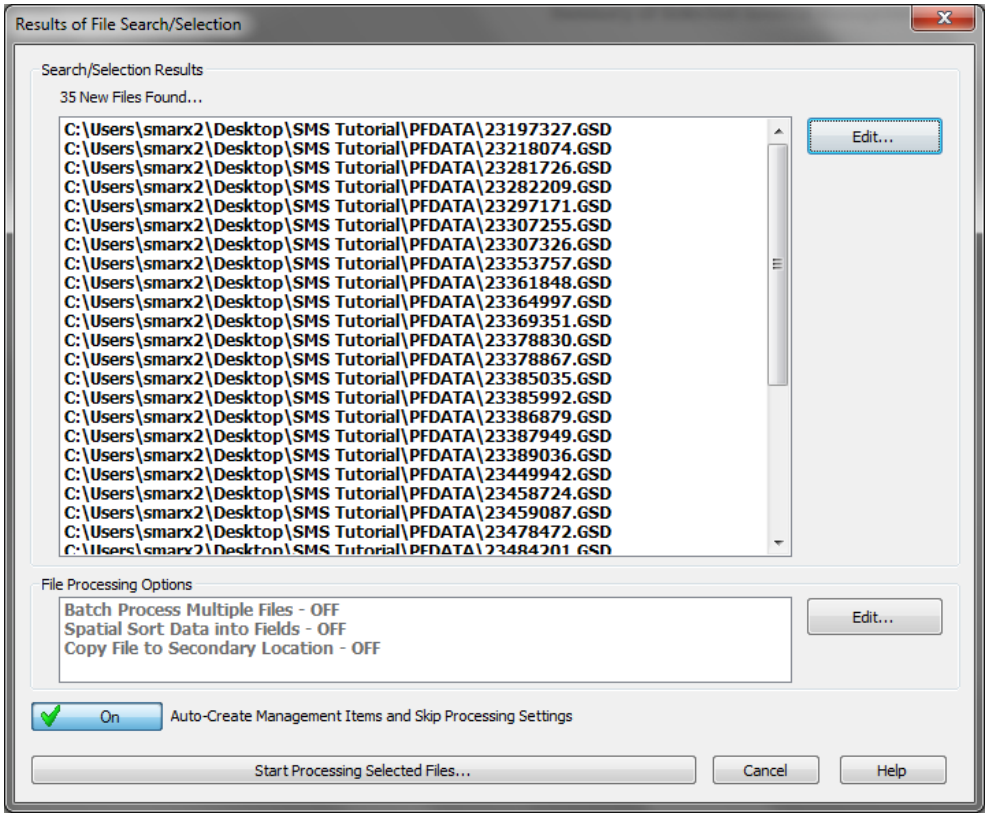
After choosing the manufacture name as well as desired file format, click on **Start Automatic File Search.**

This will bring up a Browse for Folder box for choosing the file location. Normally, if you are reading in files from a display, you will look for the drive location of the card or flash drive that hold the display files.



After finding the correct file location, click **OK**. This will bring up a list of the data that SMS sees on within that folder.

f. The list of files will populate in the search/ selection results box.

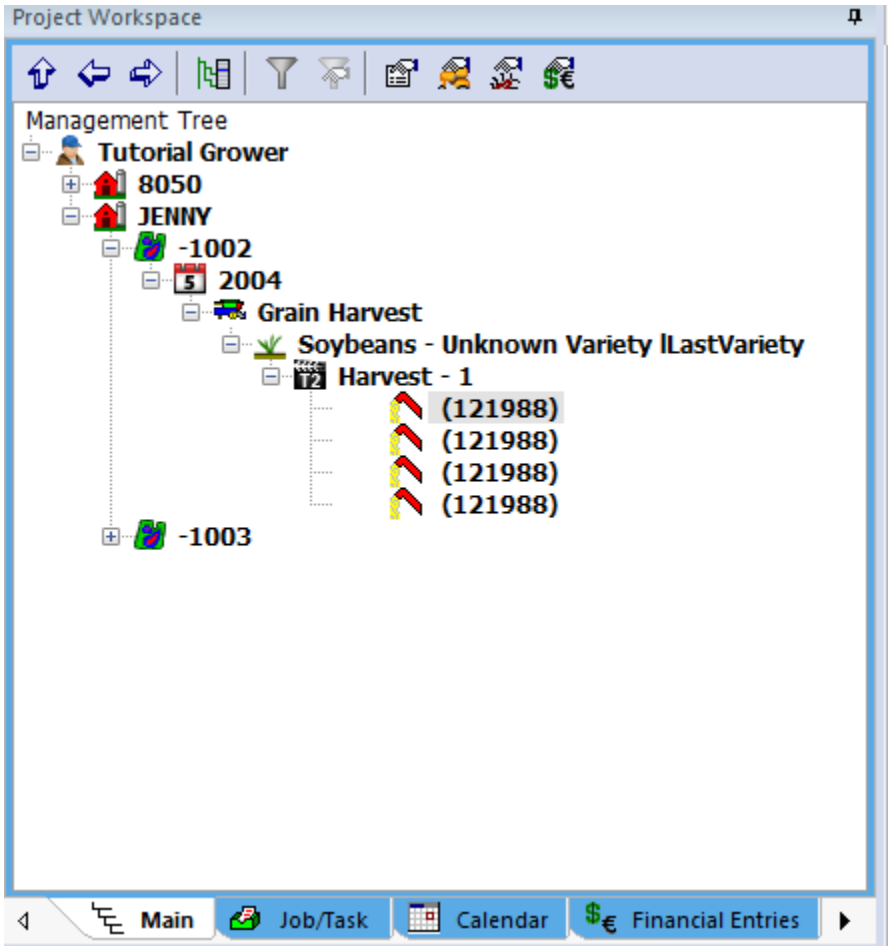


Before we start processing files, we do have a few different options for processing files. We can bring in all the files that SMS sees within the folder we selected, or we can spatially sort based on a frozen boundary. This is not something we can do when creating a new project, but later on when we have an established project. A secondary copy of the original files can also be created while reading in files.

After deciding how to process the files click on the **Start Processing Selected Files** button at the bottom.

g. During the creation of a new project and the first time reading in files from a display, SMS gives the option to sort those files into a new "Grower Name" which we can create. Otherwise, if there are existing growers, we can choose to put those files into a particular grower name.

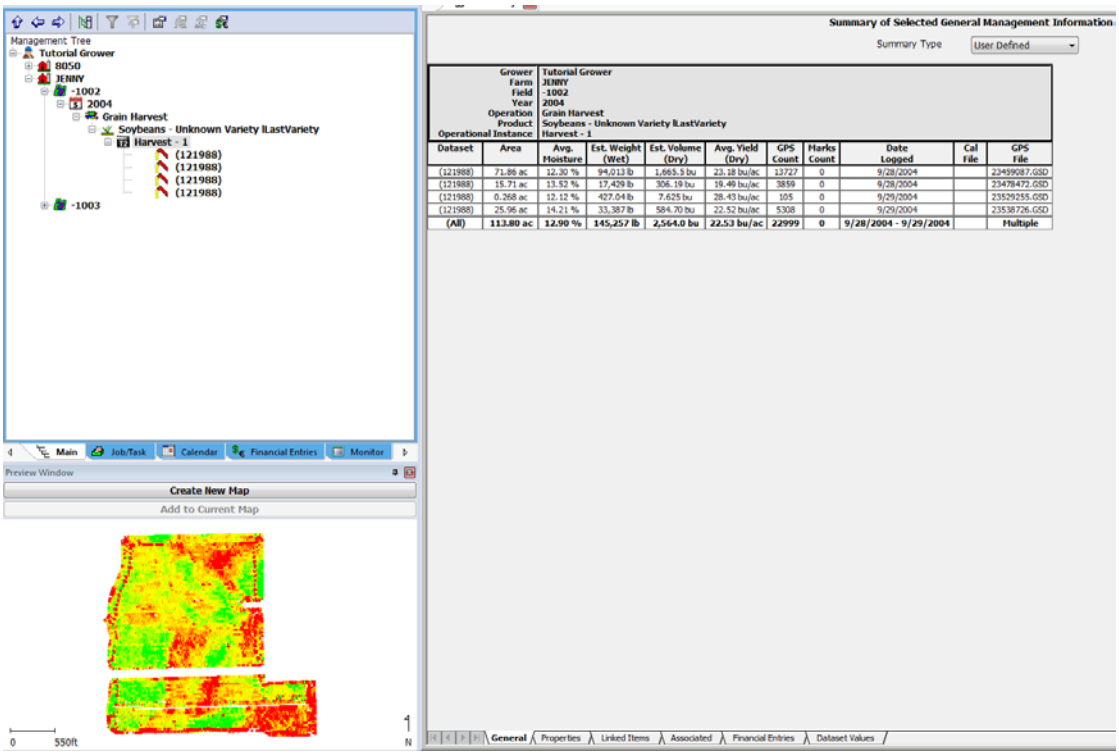
h. After entering the grower name or choosing the appropriate grower name, we can now view the files in SMS.



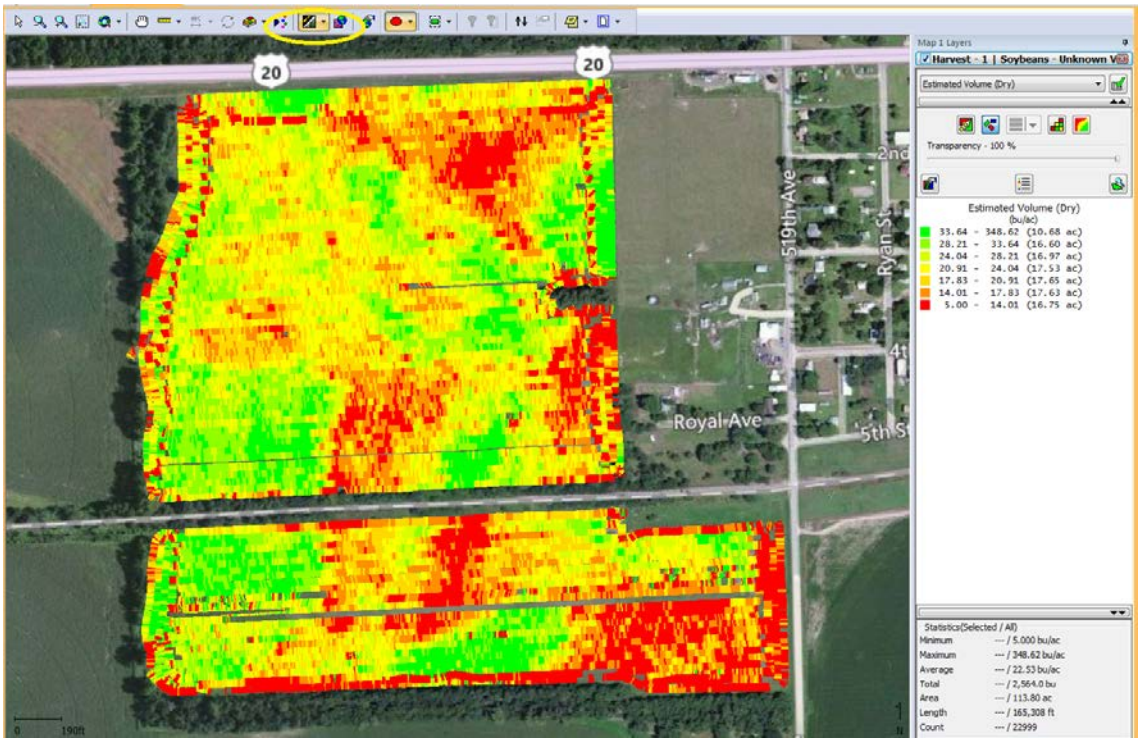
i. Once the files are read into SMS we can view the data on the left side under Project Workspace in the hierarchy of Grower→Farm→Field.

j. Once we open a field, the data is sorted based on year, operation and crop. In the case above, the data was from the soybean harvest of 2004.

k. To view the data of a particular operation, single click on the operation (Harvest-1) to view a summary of the field and a thumbnail of the filed map.



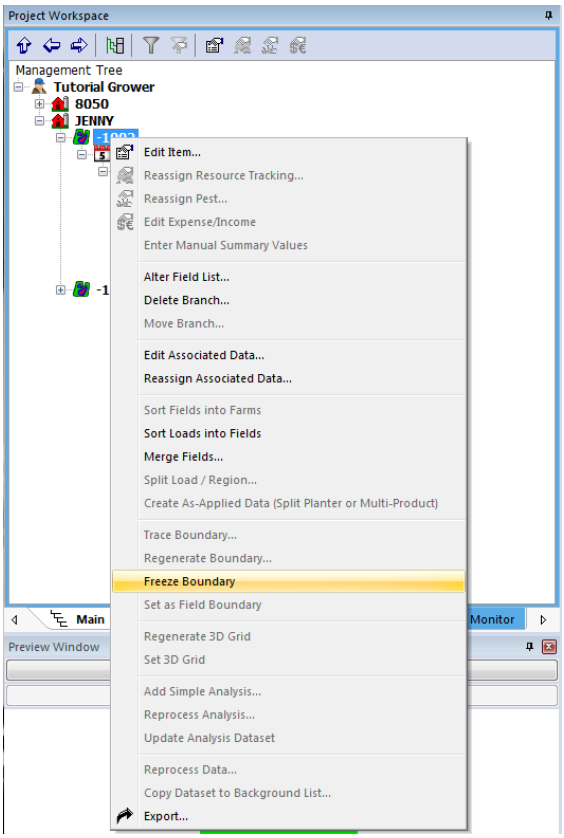
l. To view the field map in its entirety, click on the **Create New Map** button. This will bring the map into view along with a field legend. If you are connected to the internet and wish to see an aerial image background, you can choose to do so by selecting Aerial Image or Aerial Image/Road Combination in the toolbar along the top of the map.



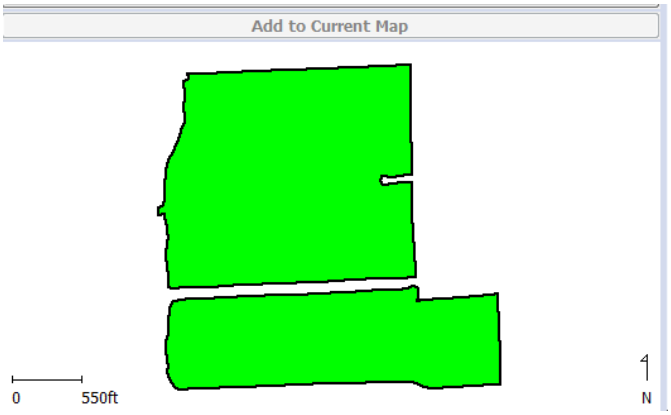
2. Freezing a Boundary

a. Earlier in this tutorial, freezing a boundary was mentioned. This portion of the tutorial will quickly go over how to freeze a boundary.

b. Begin by right clicking on the field name that you wish to freeze the boundary for.



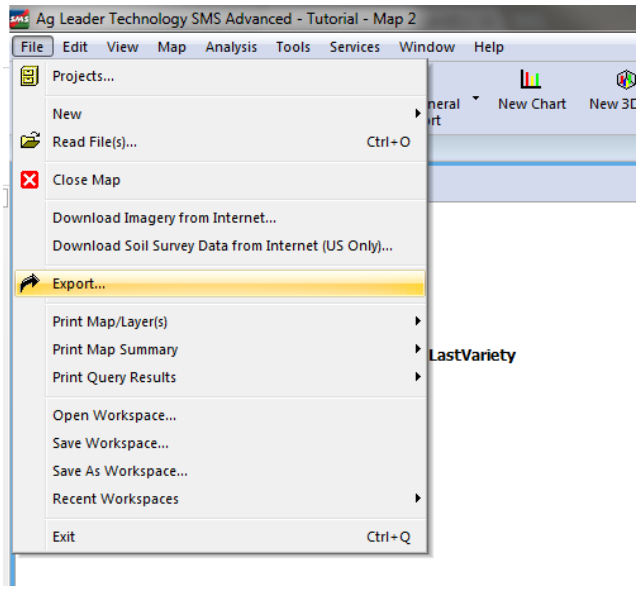
c. Click on the freeze boundary option. This will now create a boundary around the field.



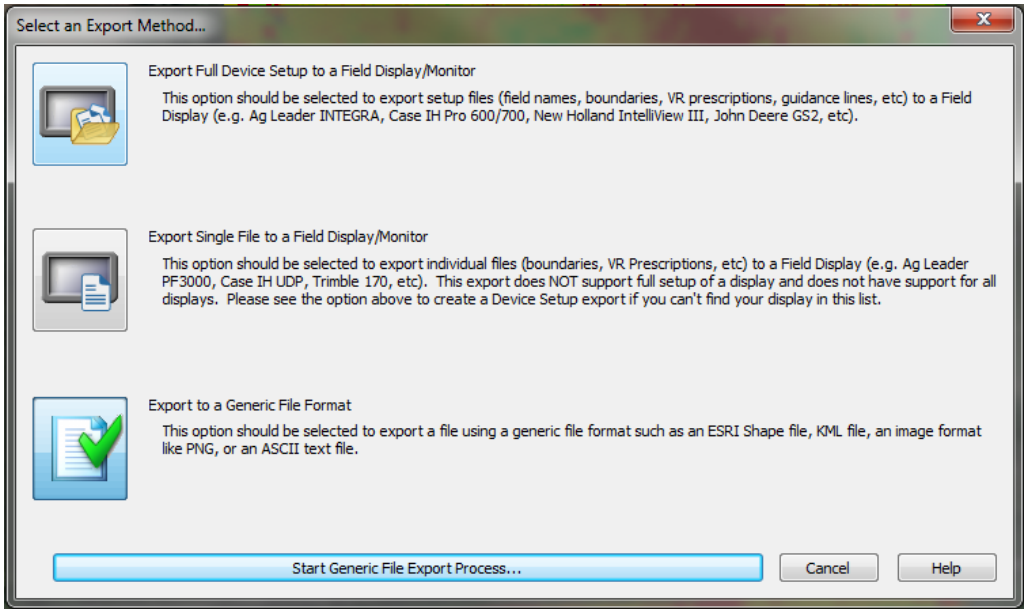
3. Exporting the data as a generic file

a. Once we have loaded data from a display into Ag Leader SMS, we also have the ability to export that data in different formats in order to further utilize this data.

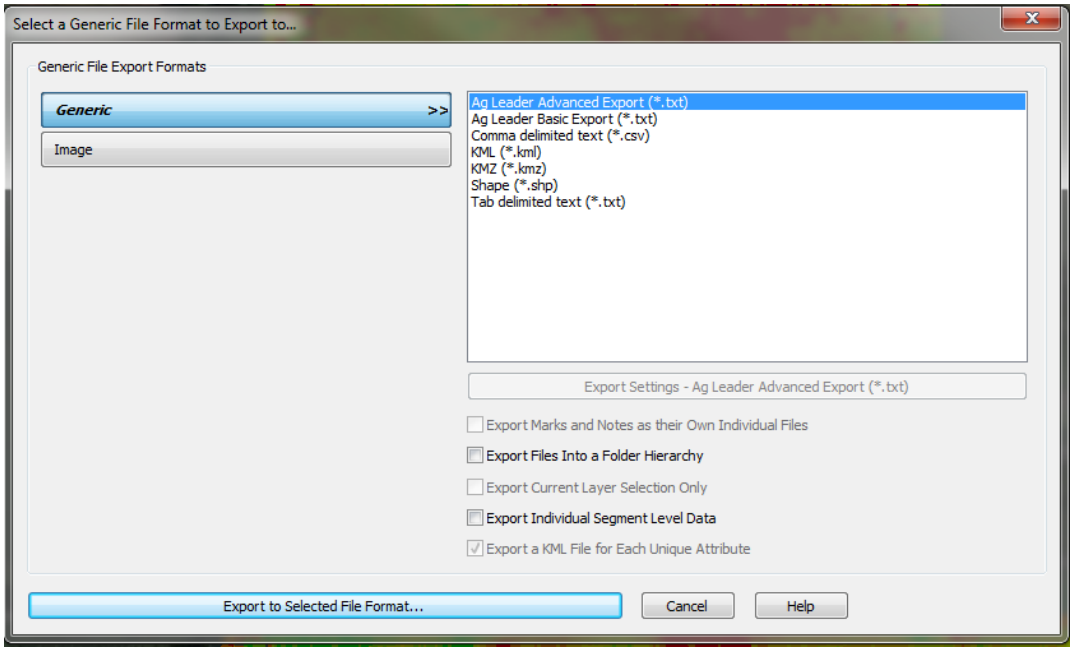
b. To export the data, click on the **file** button in the top left corner of SMS. Then click on the Export button to begin the export process.



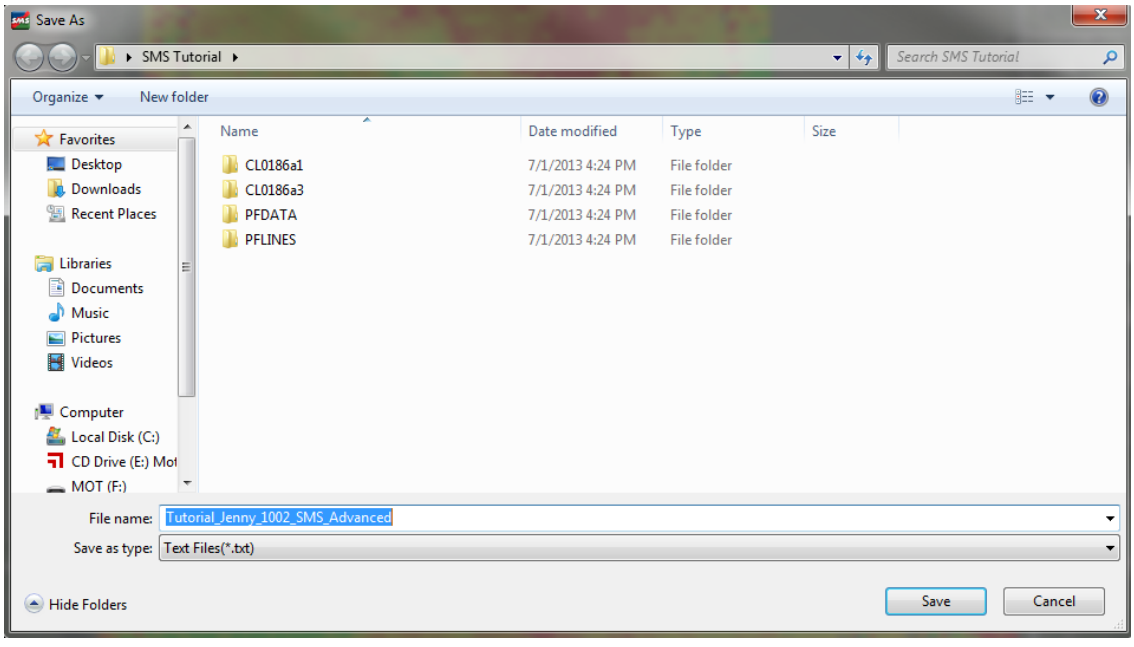
c. SMS has the ability to export files in many different formats, but we want to export the data as a generic file format. Choose **Export to a Generic File Format** and then click on the **Start Generic File Export Process** button.



d. We will want to export as Ag Leader Advanced Export (.txt) format. This will allow us to use the data in other programs as desired. Once you select **Generic** and Ag Leader Advanced Export as shown, click on **Export to Selected File Format**.



e. This will bring up a Save As box for us to choose where we wish to save our exported .txt file to. Choose where you would like to save the file, then create a file name and click **Save**.



f. Find the text file you created to verify that it was properly created. This completes this tutorial.