

Processing Yield Data in Ag Data Viewer 3.1

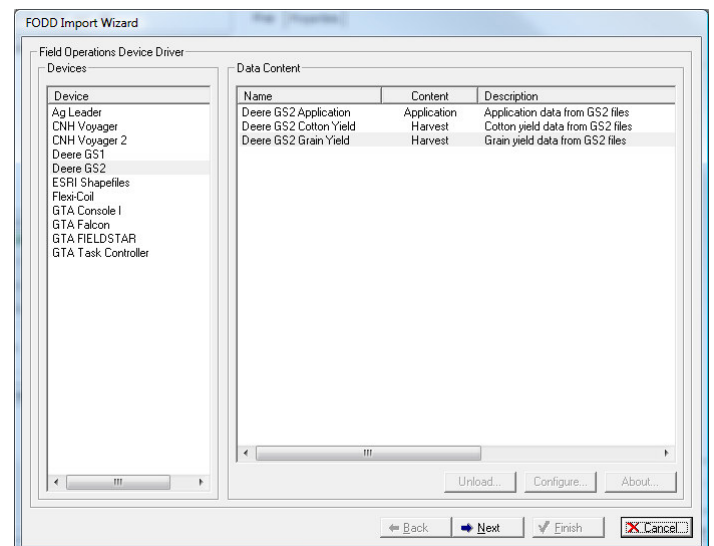
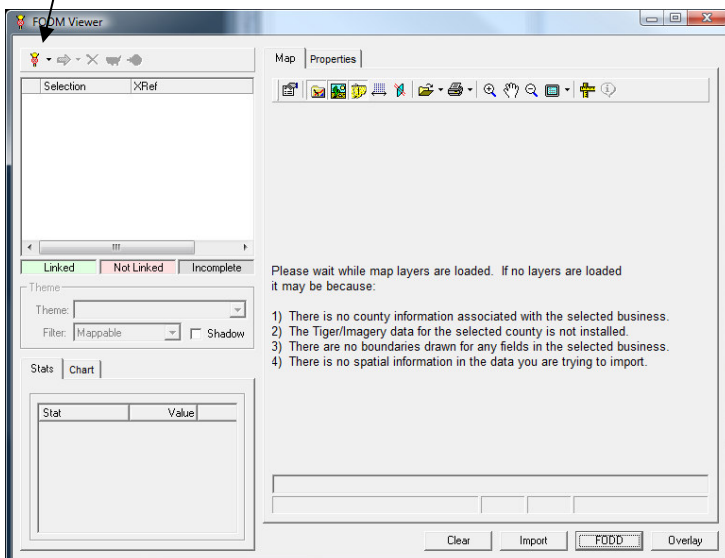
As we make our transformation from a package specifically designed for drainage maps, we will be counting on help from some external tools to extract from proprietary data sources, and filter data.

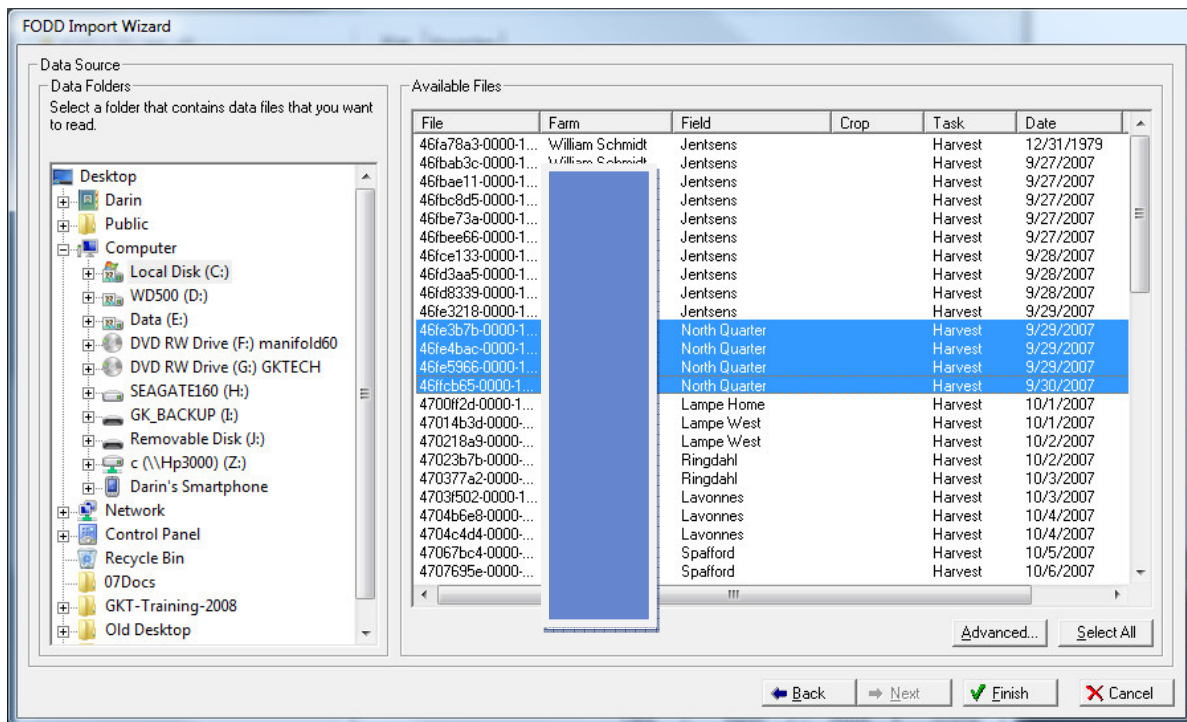
Though this arrangement may seem clumsy, it is the process we have used in house to create yield maps for quite some time.

The tools we will be using to access data from John Deere Greenstar 1&2 systems, the original **Agleader YLD** as well as Insight data, and Case Voyager data, is the **FOViewer** tool from **Mapshots** that is installed with the FODD runtime.

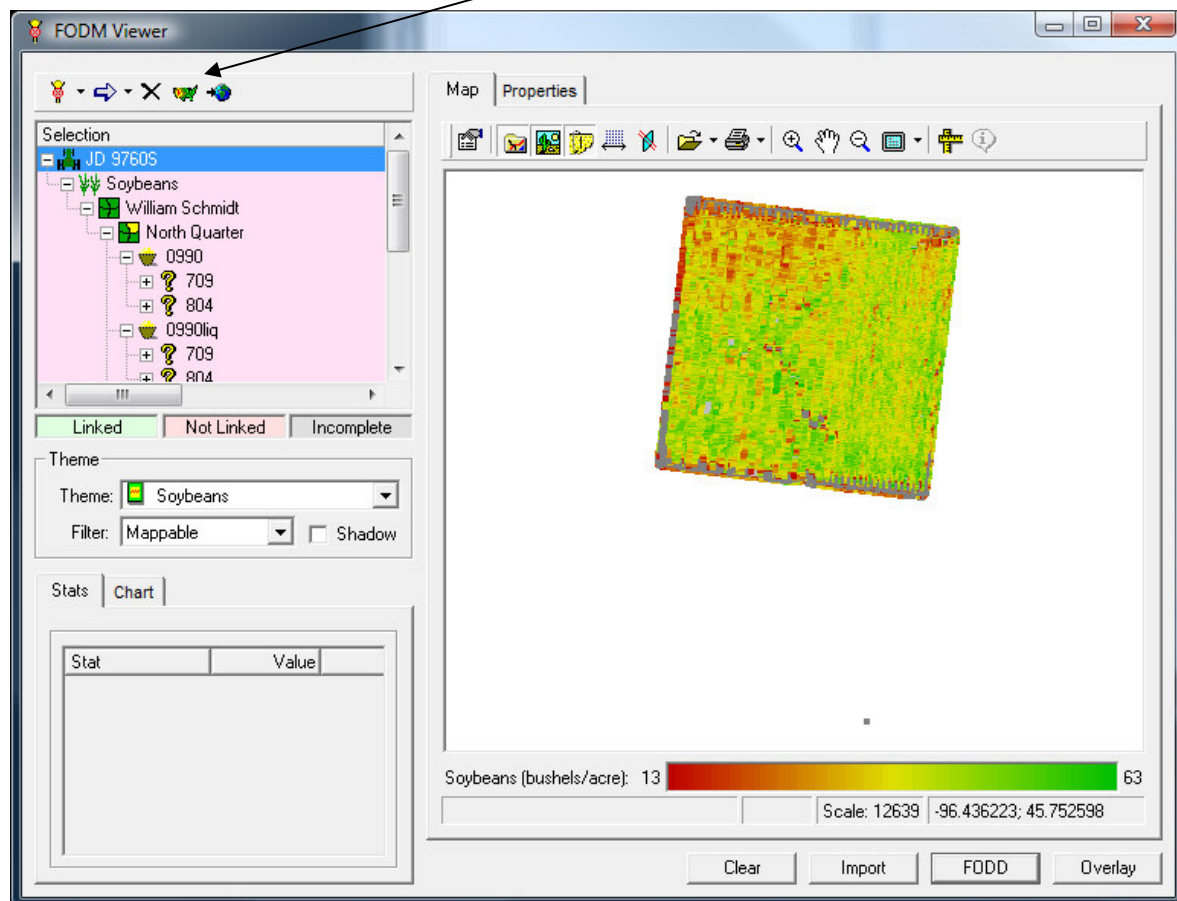
In Ag Data Viewer you can start FOViewer if it is installed by click **Import-Launch FOViewer**.

Click the Arrow hear to Drop down a menu. That will bring up the box on the right that will show a list of devices from which data can be read. Highlight the device type you wish to read from and the type of data you wish to read, for example Deere GS2 and Deere GS2 Grain Yield. Then click Next.





The Farm has been intentionally blocked out, but you can see that a field called North Quarter has been selected for processing. Click **Finish** to bring up the data. Then click the **USA icon** to open the Field in Yield Editor.



Yield Editor

Load/Import File

Filtering, Mapping and Editing

Map and Manual Editor

Save/Export File

Filter Selection

Use?	Show?							
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-2	Flow Delay	<input type="checkbox"/>	1013	Deleted		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	0	Moisture Delay	<input type="checkbox"/>	0			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Start Pass Delay	<input type="checkbox"/>	522			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	End Pass Delay	<input type="checkbox"/>	0			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	7	Max Velocity (mph)	<input type="checkbox"/>	435			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	2	Min Velocity (mph)	<input type="checkbox"/>	555			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.2	"Smooth" Velocity	<input type="checkbox"/>	1452			
<input type="checkbox"/>	<input type="checkbox"/>	120	Minimum Swath (in)	<input type="checkbox"/>	0			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	65	Maximum Yield	<input type="checkbox"/>	114			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	5	Minimum Yield	<input type="checkbox"/>	3179			
<input type="checkbox"/>	<input type="checkbox"/>	4	STD Filter	<input type="checkbox"/>	0			
<input type="checkbox"/>	<input type="checkbox"/>		Header/Down Req	<input type="checkbox"/>	0			
Position Filter								
<input type="checkbox"/>	Easting		To		Manual Deletes			
	476765.43		477632.16		0			
<input type="checkbox"/>	Northing		To		Manual Deletes			
	4349103.75		4349604.26		0			

Adjust for Moisture? Expand Dry?

13 Manual Moisture Setting <F10> Apply Filters

Sensor Based?

Yield Statistics

	Mean	STD	CV	N	Range
Clean	42.03	9.99	23.8	32602	5-65
Raw	39.13	19.20	49.1	36392	0-721

Easting (m)

699462

Northing (m)

5069685

Yield

Flow

Speed

Moist

Swath

Up/Dn

Nsecs

RmCode

Pass

Point

Zoom Tools

Manual Editing Tools

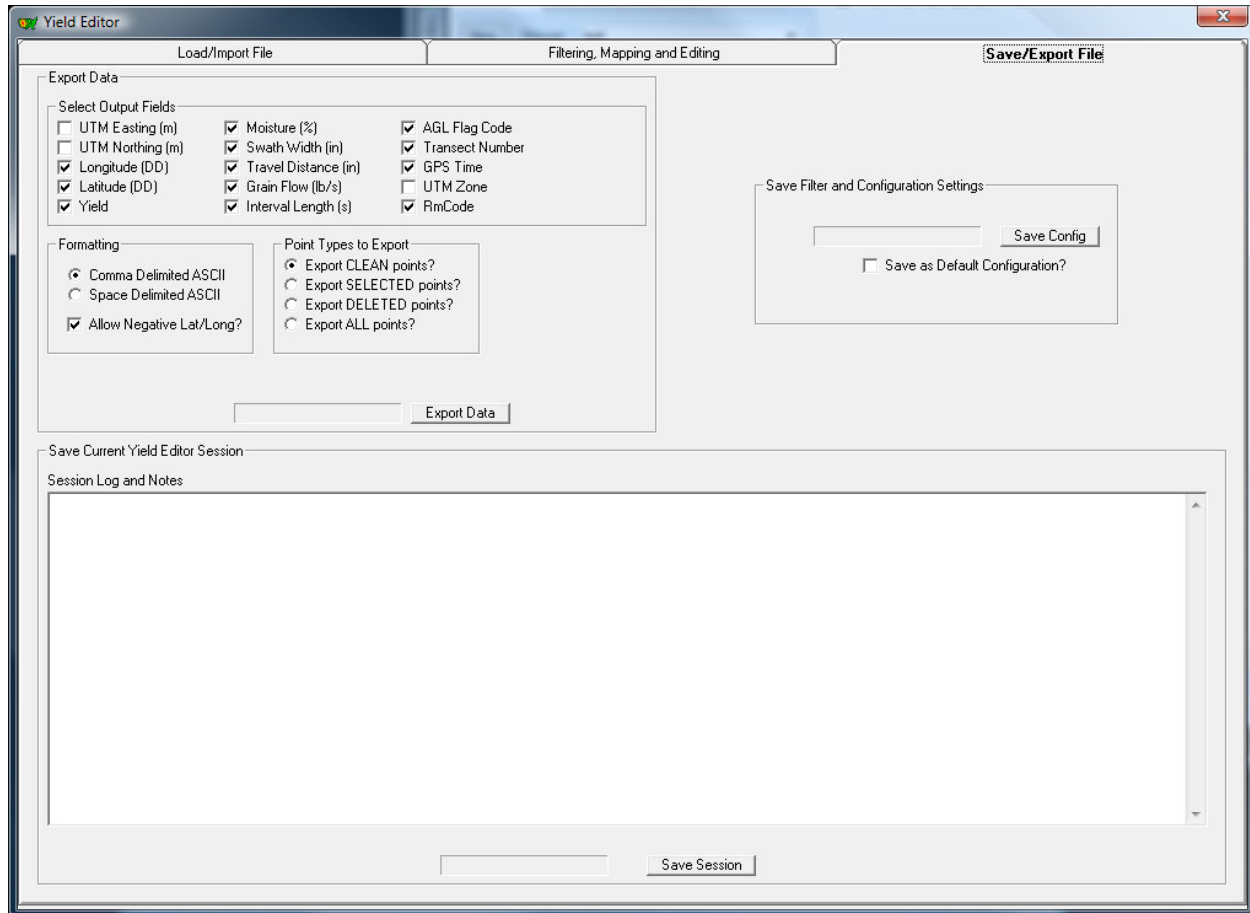
Display Symbol Size (m)

1.25

<< Advanced

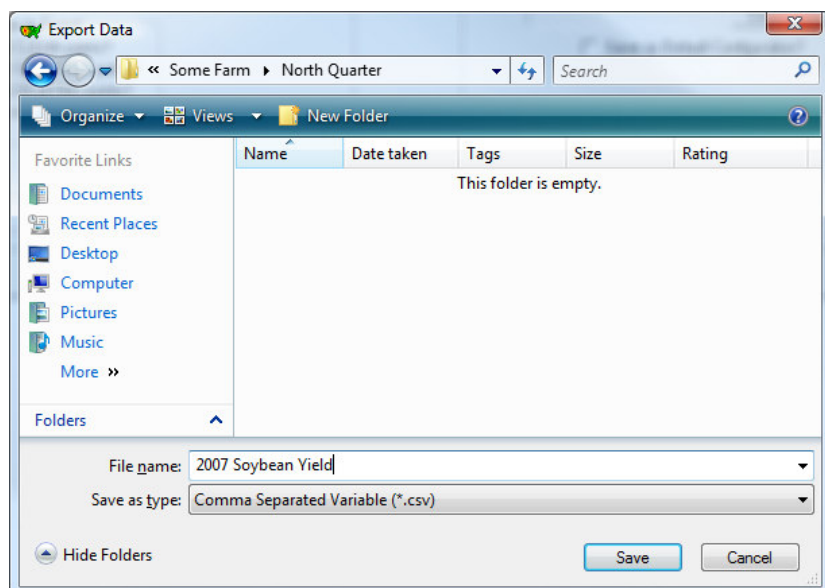
You can see that on the preceding page we have used the Yield Editor Utilities to clean nearly 4000 errant points from the yield data set. And we have adjusted the Flow delay by two seconds to precisely align a ditch crossing in the data.

The last step is to export the data to a field folder in Ag Data Viewer. Below are the proper settings to create the CSV that Ag Data Viewer is expecting. All Output Fields except the UTM fields should be selected. I would suggest that after setting the export options to as there are shown below, that you check the box labeled **“Save as Default Configuration?”** and then click **“Save Config.”**



Browse to the proper field folder for the data and click **“Save”**.

You now have a properly cleaned yield data set that you can use bring up in Ag Data Viewer and set a thematic color table for displaying points.



Thematic Mapping

Source Database Column: Yield
 First Row: 34.588
 Point Size (Pixel): 7.0

Color Range Source: Automatic
 Layer Statistics:
 Average Value: 42.026
 Standard Dev: 9.99
 Minimum Value: 5.00
 Maximum Value: 64.994
 Coeff of Var: 23.8

Number of Ranges: 40
 Minimum Value: 5
 Maximum Value: 64.99

Range Type: Equal Interval
 Range Statistics:
 Average Value: 42.026
 Standard Dev: 9.99
 Minimum Value: 5.00
 Maximum Value: 64.994
 Coeff of Var: 23.8

C...	Min	Max	Area	Var
1	9.62	10.89	0	0
2	10.89	12.16	0	0
3	12.16	13.42	0	0
4	13.42	14.69	0	0
5	14.69	15.96	0	0
6	15.96	17.23	0	0
7	17.23	18.5	0	0
8	18.5	19.76	0	0
9	19.76	21.03	0	0
10	21.03	22.3	0	0
11	22.3	23.57	0	0
12	23.57	24.84	0	0
13	24.84	26.1	0	0
14	26.1	27.37	0	0

Field: North Quarter Layer: 2007 Soybean Yield.csv

N: 5,068,843.57 E: 699,211.83

0.87 Miles