



Specifying Non-Uniform Harvested Plot Sizes

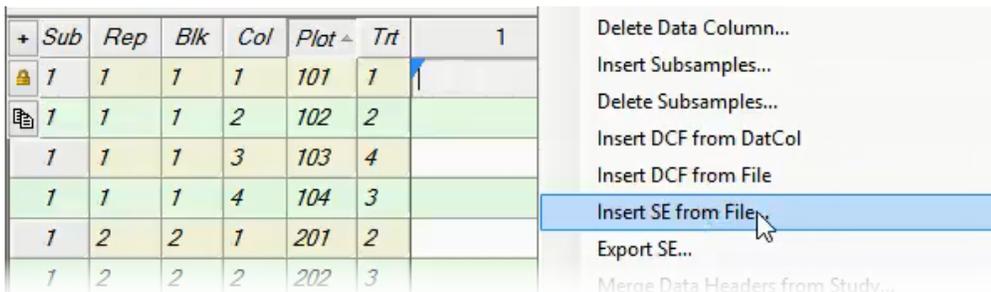
The treated experimental unit size for a trial is entered in the Trial Settings dialog, which sets the treatment area for all plots in the trial. However, there are situations where the harvested plot size may not be the same for all plots. When this occurs, a simple yield conversion using the same plot size for all plots would not be accurate for those plots with varying dimensions.

Select the 'Use width/length in data column number' options on the Yield Conversion dialog to use plot dimensions specified in Assessment Data columns for the harvested plot size.

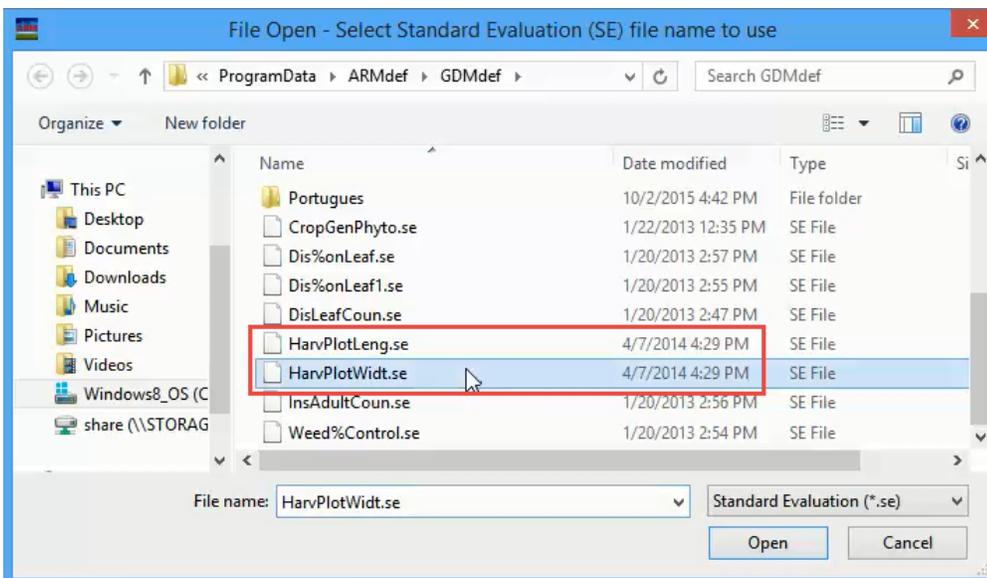
1. Create harvested plot width and length columns

a. Insert treated plot dimensions

In an empty assessment data column, right click on a cell and select 'Insert SE from File'.



Next, select **HarvPlotWidt.se** from the File Open dialog. This copies the treated plot width value from Window – Settings into each cell of the current column.



In the next blank column, repeat the previous two steps to select **HarvPlotLength.se** for the second column and copy the treated plot length value from Window – Settings into each cell of the selected column.

Now the treated plot width and length specified in Settings are loaded into each row of these WIDTH and LENGTH assessment columns.

Assessment Data - Line 1							1	2	3	4
Column Number										
Rating Type							WIDTH	LENGTH	YIELD	
Rating Unit									kg	
Number of Subsamples							1	1	1	
Number of Decimals							2	2	2	
	Sub	Rep	Blk	Col	Plot	Trt	1	2	3	4
	1	1	1	1	101	1	4.00	6.00	15.15	
	1	1	1	2	102	2	4.00	6.00	16.00	
	1	1	1	3	103	4	4.00	6.00	17.54	
	1	1	1	4	104	3	4.00	6.00	14.44	
	1	2	2	1	201	2	4.00	6.00	14.44	

b. Edit harvested dimensions on a per-plot basis

Each plot can now have its own harvested width and length, which ARM can use in yield conversions. Edit the values in the added columns to specify the true harvested plot size for each individual plot.

Assessment Data - Line 6							1	2	3	4
Column Number										
Rating Type							WIDTH	LENGTH	YIELD	
Rating Unit							m	m	kg	
Number of Subsamples							1	1	1	
Number of Decimals							2	2	2	
	Sub	Rep	Blk	Col	Plot	Trt	1	2	3	4
	1	1	1	1	101	1	4.50	6.00	15.15	
	1	1	1	2	102	2	4.50	6.00	16.00	
	1	1	1	3	103	4	4.50	6.00	17.54	
	1	1	1	4	104	3	4.50	6.00	14.44	
	1	2	2	1	201	2	4.00	5.50	14.44	
	1	2	2	2	202	3	4.00	5.5	18.59	
	1	2	2	3	203	1	4.00	6.00	16.85	

2. Convert Yield

Right-click on the column with original yield values and select 'Convert Yield' to launch the Convert Yield wizard.

3	
15.15	
16.00	
17.54	
14.44	
14.44	
18.59	
16.85	

- Display Hidden Fields with Information
- Assessment Data View Options...
- Sort by (Ascending)...
- Sort by (Descending)...
- Transform...
- Recalc Transformations
- Convert Yield...
- Assessment Data Column Tools...
- Push Trial Rating Shell to Excel

Select the desired Yield Units, then select both 'Use width in data column number' and 'Use length in data column number' options. Next, specify which assessment columns the respective width and length values are stored in, and select the appropriate unit.

Finally, fill out the rest of the Yield Conversion dialog, adjusting to dry moisture percent as needed and selecting which data column to store the converted yield in, and click OK. ARM then calculates a separate yield conversion factor for each plot, based on the Width and Length values entered in the specified columns, and uses this factor to calculate the converted yield values.

Assessment Data - Line 19							1	2	3	4 (Calculated)
Column Number							WIDTH	LENGTH	YIELD	YIELD
Rating Type							m	m	kg	KG
Rating Unit										
Number of Subsamples							1	1	1	1
Number of Decimals							2	2	2	1
+ Sub	Rep	Blk	Col	Plot	Trt		1	2	3	4 (Calculated)
1	1	1	1	101	1		4.50	6.00	15.15	5611.1
1	1	1	2	102	2		4.50	6.00	16.00	5925.9
1	1	1	3	103	4		4.50	6.00	17.54	6496.3
1	1	1	4	104	3		4.50	6.00	14.44	5348.1
1	2	2	1	201	2		4.00	5.50	14.44	6563.6
1	2	2	2	202	3		4.00	5.50	18.59	8450.0
1	2	2	3	203	1		4.00	5.50	16.85	7659.1
1	2	2	4	204	4		4.00	5.50	18.45	8386.4