

# Instructions for the DecAID Summary template worksheets:

- DecAID\_Snags\_by\_WS\_EASTSIDE\_SummaryTemplate*
- DecAID\_Snags\_by\_WS\_WESTSIDE\_SummaryTemplate*
- DecAID\_DW\_by\_WS\_EASTSIDE\_SummaryTemplate*
- DecAID\_DW\_by\_WS\_WESTSIDE\_SummaryTemplate*

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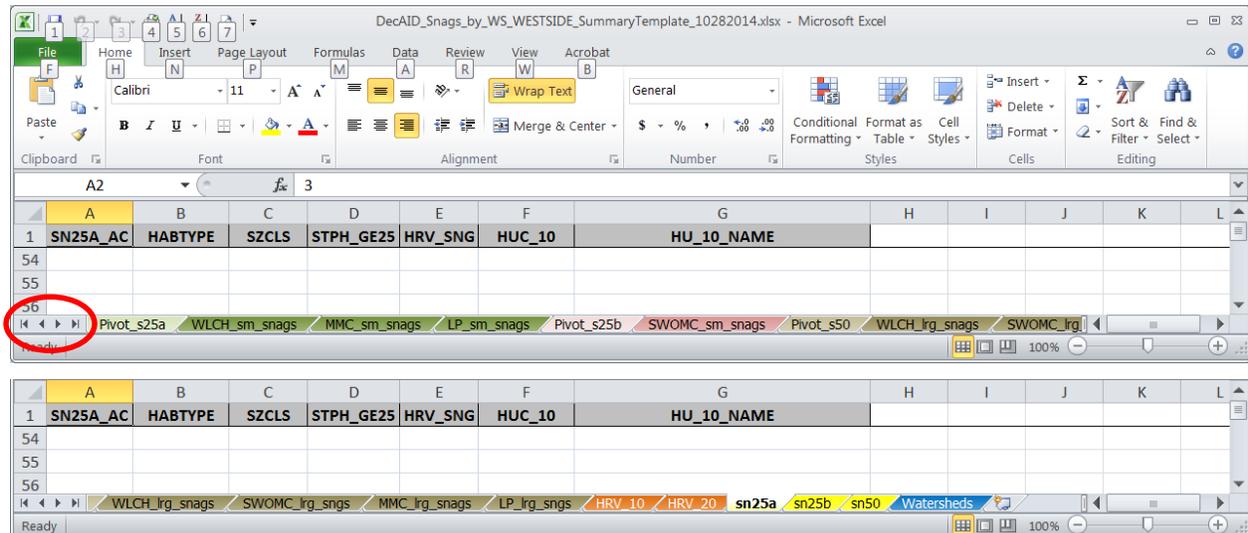
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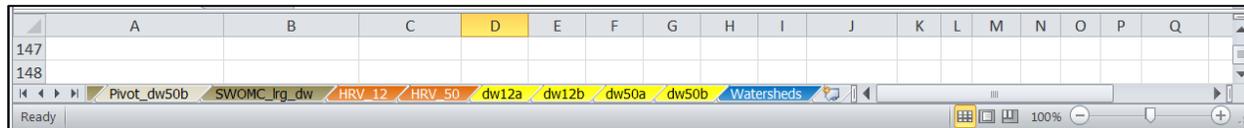
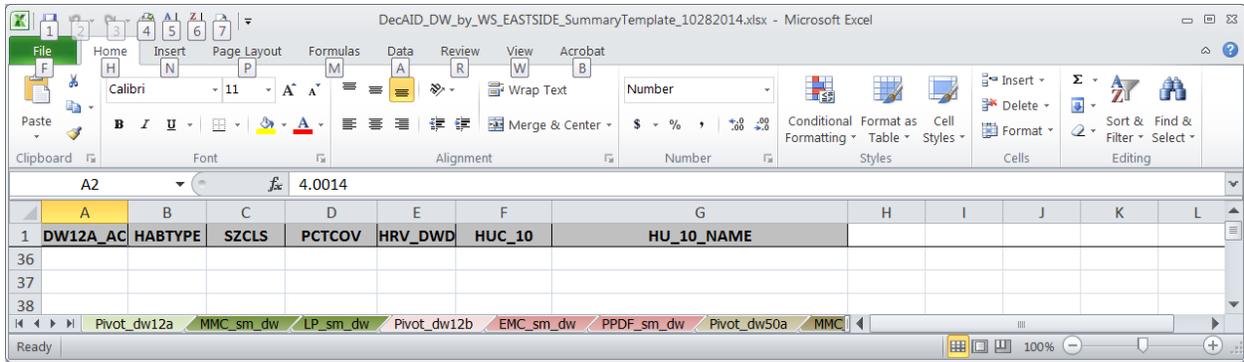
## Overview

This spreadsheet is designed to automatically summarize data in the format needed for a DecAID distribution analysis.

Input data are the outputs from the Region-wide DecAID analysis. **The steps outlined in the *Instructions for DecAID Regional Analysis* document need to be completed before using this template.**

The spreadsheets each have pages with color-coded tabs. See all the tabs by using the arrows at the bottom, left of the spreadsheet. The figure below is an example of tabs for *DecAID\_Snags\_by\_WS\_WESTSIDE\_SummaryTemplate.xlsx* and *DecAID\_DW\_by\_WS\_EASTSIDE\_SummaryTemplate.xls*





The yellow tabs are where you paste the data from the Regional Analysis after exporting the data to Excel. Yellow tabs are: sn25a, sn25b, sn50, dw12a, dw12b, dw50a, dw50b

The "Pivot" tabs (lighter color) are pivot tables which use the data pasted into the yellow tabs and create a summary of the data.

There are color-coded tabs for Wildlife Habitat Type (WHT); these are worksheets where you paste the data from the pivot tables. These worksheets calculate the percent of the landscape in each snag density class. The colors are coded to the associated Pivot Table tab. For example, the light brown Pivot table tab has the data that will be pasted into the darker brown WTH tabs.

The orange tab is set up for you to calculate a weighted Historic Range of Variability (HRV) for the WHTs using your HRV values for Successional Structural Classes (SCCs) and the data from unharvested inventory plots from DecAID for each snag density and down wood percent cover class.

The blue tab is a list of watersheds with HUC10 code and name. This worksheet should be populated with your list of watersheds and can be used as a crosswalk or lookup table.

### **Skills Needed – Basic Excel Skills**

- Copy and paste
- Move between worksheets using tabs – use the arrows at the bottom left of your worksheet (circled in red in figure above)
- Scrolling with top rows locked in "freeze pane"

## Step by Step Instructions

### Step 1 – Copy and Paste data

Copy the data from the Excel worksheets that were exported from the Regional Analysis and clipped to your Forest or Analysis Area.

- Highlight the data to be copied, right click on the highlighted area, and click on "Copy".  
**Do not copy the header row.**

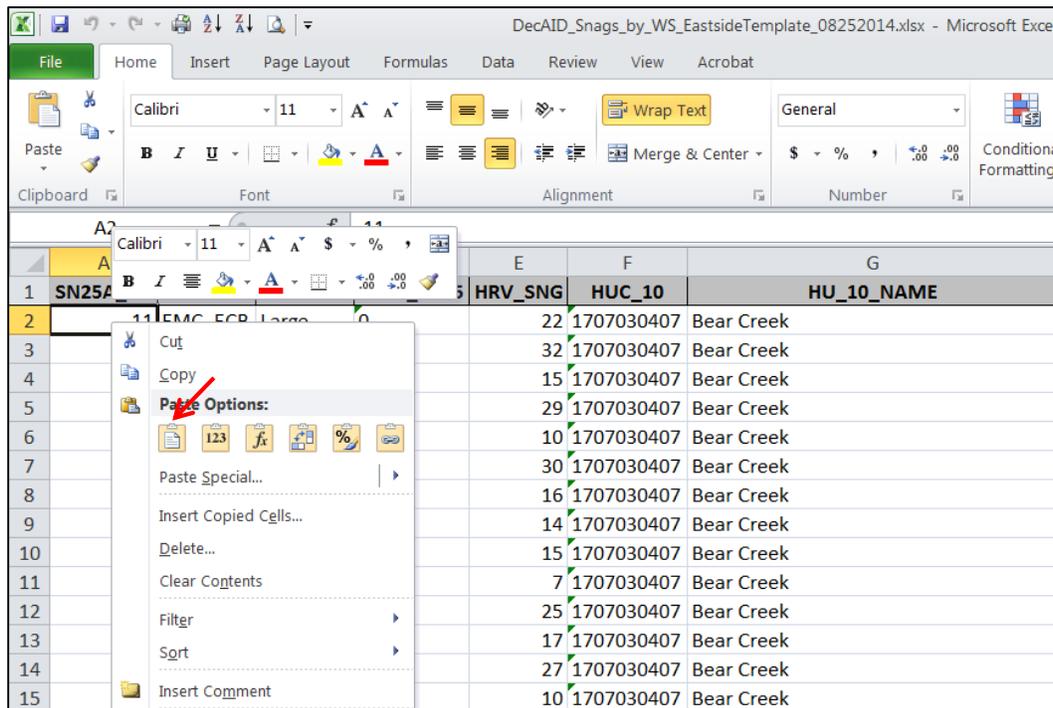
rs\_25\_1wrds.xlsx - Microsoft Excel

	A	B	C	D	E	F	G	H	I
1	SN25A_AC	HABTYPE	SZCLS	STPH_GE25	HRV_SNG	HUC_10	HU_10_NAME		
2	4	MMC	Large	0	1	1710031101	Althouse Creek		
3	31	MMC	Large	>=90	6	1710031101	Althouse Creek		
4	266	MMC	Large	0-15	17	1710031101	Althouse Creek		
5	384	MMC	Large	15-30	28	1710031101	Althouse Creek		
6	437	MMC	Large	30-60	37	1710031101	Althouse Creek		
7	109	MMC	Large	60-90	11	1710031101	Althouse Creek		
8	367	MMC	Open	0	36	1710031101	Althouse Creek		
9	17	MMC	Open	>=90	5	1710031101	Althouse Creek		
10	115	MMC	Open	0-15	29	1710031101	Althouse Creek		
11	35	MMC	Open	15-30	13	1710031101	Althouse Creek		
12	8	MMC	Open	30-60	12	1710031101	Althouse Creek		
13	15	MMC	Open	60-90	5	1710031101	Althouse Creek		
14	165	MMC	Small	0	5	1710031101	Althouse Creek		
15	2	MMC	Small	>=90	15	1710031101	Althouse Creek		

rs\_dw50b.xlsx - Microsoft Excel

	A	B	C	D	E	F	G	H	I
1	DW50B_AC	HABTYPE	SZCLS	PCTCOV	HRV_DWD	HUC_10	HU_10_NAME		
2	1457	SWOMC	Large	0	41	1710031101	Althouse Creek		
3	488	SWOMC	Large	1-2	20	1710031101	Althouse Creek		
4	143	SWOMC	Large	2-3	10	1710031101	Althouse Creek		
5	96	SWOMC	Large	3-4	6	1710031101	Althouse Creek		
6	200	SWOMC	Large	>=4	15	1710031101	Althouse Creek		
7	360	SWOMC	Large	0-1	8	1710031101	Althouse Creek		
8	1255	SWOMC	Open	0	73	1710031101	Althouse Creek		
9	238	SWOMC	Open	1-2	8	1710031101	Althouse Creek		
10	317	SWOMC	Open	2-3	7	1710031101	Althouse Creek		
11	360	SWOMC	Open	3-4	1	1710031101	Althouse Creek		
12	70	SWOMC	Open	>=4	9	1710031101	Althouse Creek		

- Paste the data into the appropriate **yellow tab** as per the table below. Paste over the existing few rows of example data. Make sure you have **scrolled all the way to the top** of the worksheet and paste the data by selecting cell **A2**, right click and paste.



Regional Analysis results to paste into template worksheet:

File from Regional Analysis	Template worksheet (yellow tabs)	WHTs
*_snag25a	sn25a	WLCH, MMC, LP, EMC
*_snag25b	sn25b	PPDF, SWOMC
*_snag50	sn50	All
*_sn25a_rd	sn25a	WLCH, MMC, LP, EMC
*_sn25b_rd	sn25b	PPDF, SWOMC
*_sn50_rd	sn50	All
*_dw12a	dw12a	WLCH, MMC, LP
*_dw12b	dw12b	PPDF, SWOMC, EMC
*_dw50a	dw50a	WLCH, MMC, LP
*_dw50b	dw50b	PPDF, SWOMC, EMC

## Step 2 – Refresh Pivot Tables

- Go to each Pivot Table tab (white tabs). Click on any cell in the blue header area. Go to the toolbar and select PivotTable Tools/Options/Refresh/Refresh All. The table is now updated for your data.

The screenshot shows the Microsoft Excel interface with the PivotTable Tools ribbon active. The 'Refresh' button is circled in red, and a red arrow points to the 'Refresh All' button. The PivotTable below shows data for DW12A\_AC with columns for MMC and LP.

Row Labels	MMC	LP
Bear Creek	531.0 397.0 824.0 475.0 580.0 363.0	3170.0
Althouse Creek	82.0 109.0 1354.0 482.0 314.0 130.0	2471.0
Beaver Creek	1290.0 1698.0 1296.0 121.0 6.0	4411.0
Big Butte Creek		4.0 2.0
Elk River		
Stair Creek-Rogue River	19.0 188.0 105.0 21.0 13.0	346.0
<b>Grand Total</b>	<b>613.0 1815.0 4064.0 2358.0 1036.0 512.0</b>	<b>10398.0 4.0 2.0</b>

**NOTE:** As long as your data in the yellow tabs contains no more than 5,000 records you will not need to Change Data Source. If your data has more records you will also need to Change Data Source (see Appendix A).

## Step 3 – Copy Pivot Table Data and Paste Values

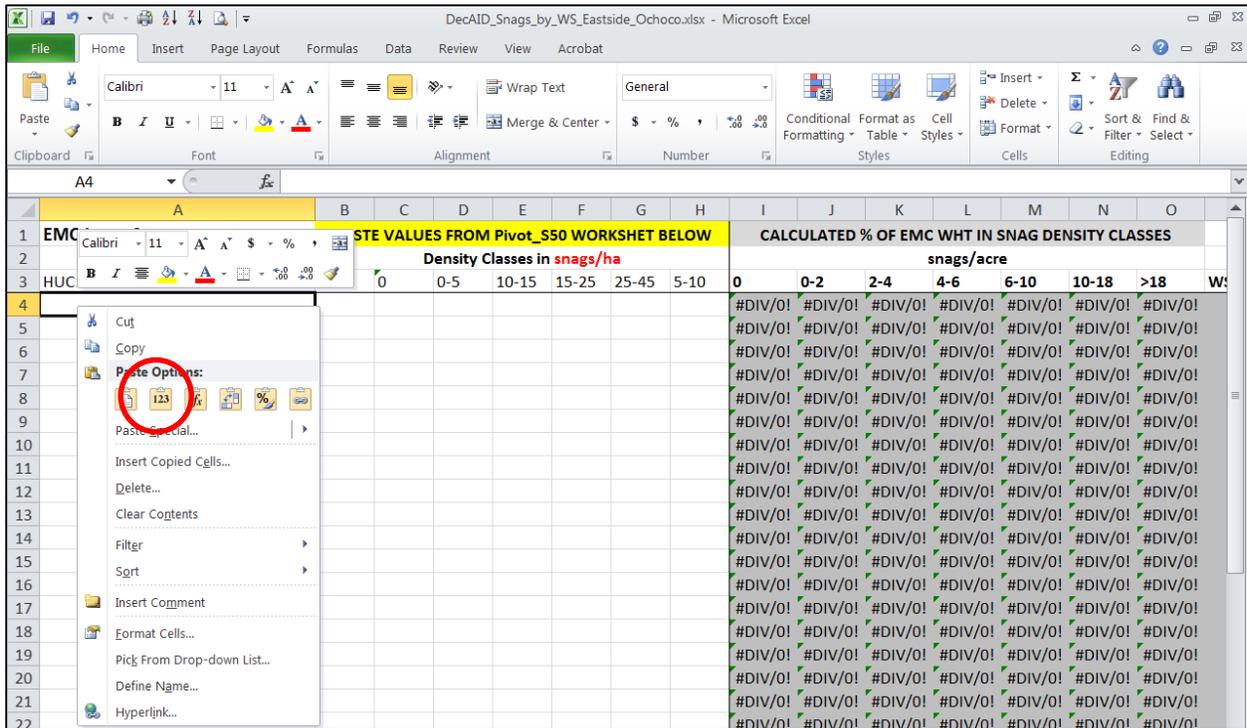
Copy the data that is summarized in the pivot tables and paste to the appropriate green or brown tab. There will be blanks in the pivot table, indicating that no part of that watershed has that particular combination of WHT, SCC and snag density or down wood percent cover class.

- Copy watershed names. Do not copy the column heading (Row Labels) or any cells below the last watershed name (i.e., blanks, Grand Total).

The screenshot shows the Microsoft Excel interface with a PivotTable for SN50\_AC. The PivotTable has columns for EMC\_ECB and LP. The data is summarized by watershed name and EMC\_ECB categories.

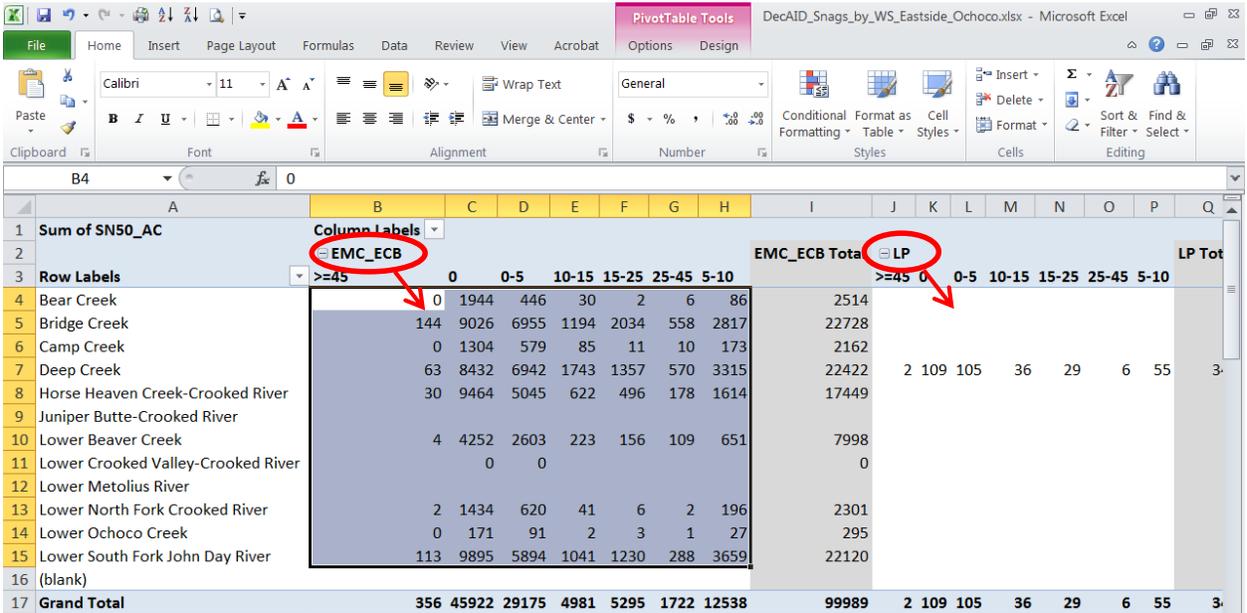
Row Labels	EMC_ECB	LP
Bear Creek	0 1944 446 30 2 6 86	2514
Bridge Creek	144 9026 6955 1194 2034 558 2817	22728
Camp Creek	0 1304 579 85 11 10 173	2162
Deep Creek	63 8432 6942 1743 1357 570 3315	22422
Horse Heaven Creek-Crooked River	30 9464 5045 622 496 178 1614	17449
Juniper Butte-Crooked River		
Lower Beaver Creek	4 4252 2603 223 156 109 651	7998
Lower Crooked Valley-Crooked River	0 0	0
Lower Metolius River		
Lower North Fork Crooked River	2 1434 620 41 6 2 196	2301
Lower Ochoco Creek	0 171 91 2 3 1 27	295
Lower South Fork John Day River	113 9895 5894 1041 1230 288 3659	22120
(blank)		
<b>Grand Total</b>	<b>356 45922 29175 4981 5295 1722 12538</b>	<b>99989 2 109 105 36 29 6 55 3</b>

- Paste the watershed names in the WHT tab under the HUC10 column. Select cell A4, right click on the mouse, and select **Paste Values** (see red circle in figure below).



Copy and paste the numerical values in columns B through H in the snag worksheets and B through G in the down wood worksheets.

- Copy the values for each WHT from the pivot tables.



➤ Select cell B4 and use **Paste Values** as you did with the watershed names.

1	EMC Large Snags	PASTE VALUES FROM Pivot_S50 WORKSHEET BELOW						CALCULATED % OF EMC WHT IN SNAG DENSITY CLASSES								
2		Density Classes in snags/ha						snags/acre								
3	HUC10	>=45	0	0-5	10-15	15-25	25-45	5-10	0	0-2	2-4	4-6	6-10	10-18	>18	W!
4	Bear Creek	0	1944	446	30	2	6	86	77	18	3	1	0	0	0	
5	Bridge Creek	144	9026	6955	1194	2034	558	2817	40	31	12	5	9	2	1	
6	Camp Creek	0	1304	579	85	11	10	173	60	27	8	4	1	0	0	
7	Deep Creek	63	8432	6942	1743	1357	570	3315	38	31	15	8	6	3	0	
8	Horse Heaven Creek-Crooked River	30	9464	5045	622	496	178	1614	54	29	9	4	3	1	0	
9	Juniper Butte-Crooked River								#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
10	Lower Beaver Creek	4	4252	2603	223	156	109	651	53	33	8	3	2	1	0	
11	Lower Crooked Valley-Crooked River		0	0					#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
12	Lower Metolius River								#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
13	Lower North Fork Crooked River	2	1434	620	41	6	2	196	62	27	9	2	0	0	0	
14	Lower Ochoco Creek	0	171	91	2	3	1	27	58	31	9	1	1	0	0	
15	Lower South Fork John Day River	113	9895	5894	1041	1230	288	3659	45	27	17	5	6	1	1	
16									(Ctrl) #DIV/0!							

Do not paste anything in the grey boxes. They are formulas that will convert the amount of area in each snag density class in **snags/ha** or percent cover class to percent of the landscape in **snags/acre** or in each percent cover class. The snag density classes in the pivot tables are not in the correct order because of the way Excel sorts values. The formulas in the grey area account for that and thus are in the correct order. If there are no values for a particular WHT in a given watershed the results will show #DIV/0!

## Step 4 – Calculate Weighted Average for HRV

The HRV orange tab calculates a weighted average for HRV across SCCs for each WHT. Each Forest uses different information in terms of what is considered HRV in terms of structural condition classes. Sources for the HRV of structural stages include: Watershed Analyses, ICBEMP, Viable, REAP, published literature. Work with your silviculturist or ecologist to decide which source to use and to create a crosswalk to the DecAID SCC from the classification used by your Forest.

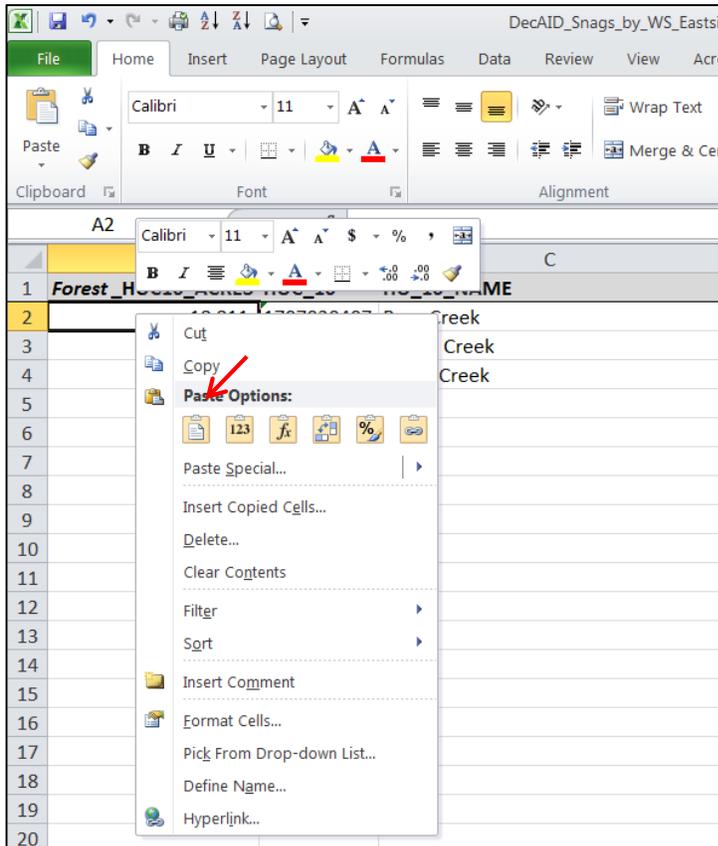
- Enter the percent of the landscape in each SCC for each WHT with values specific to your area in the yellow highlighted cells in the spreadsheet. Once this has been done the values in the gray cells will be the weighted average of percent of the landscape in each snag density class. Do not edit the gray cells or you will lose the formulas that perform the calculations.

DecAID_DW_by_WS_WESTSIDE_SummaryTemplate_09242014.xlsx - Microsoft Excel											
File Home Insert Page Layout Formulas Data Review View Acrobat											
Clipboard Font Alignment Number Styles Cells Editing											
J12											
A	B	C	D	E	F	G	H	I	J	K	
<b>1 Calculate weighted average for HRV across structural condition classes for each wildlife habitat type</b>											
<b>2</b>											
<b>Down wood &gt;=20" diameter</b>						<b>Down wood &gt;=20" diameter</b>					
<b>HABTYPE</b>	<b>SZCLS</b>	<b>PCTCOV DecAID Unharvested</b>						<b>WHT</b>	<b>SCC</b>	<b>HRV %</b>	
		0	0-2	2-4	4-6	6-8	>=8				
6 MMC	Open	81	14	4	1	0	0	MMC	Open		
7 MMC	Small	55	27	12	4	1	1	MMC	Small		
8 MMC	Large	30	25	24	11	5	5	MMC	Large		
9 LP	Open	88	8	3	1	0	0	<b>MMC</b>			
10 LP	Small	78	18	1	3	0	0	<b>Weighted Average</b>			
11 WLCH_OCO	Open	29	27	36	0	0	7		<b>0 0-2 2-4 4-6 6-8 &gt;=8</b>		
12 WLCH_OCO	Small	24	24	12	17	9	14		<b>0 0 0 0 0 0</b>		
13 WLCH_OCO	Large	25	29	21	12	4	9				
14 WLCH_OCA	Open	65	20	11	0	0	5				
15 WLCH_OCA	Small	38	29	15	8	3	7				
16 WLCH_OCA	Large	27	20	21	15	8	9				
17 WLCH_WCO	Open	no data									
18 WLCH_WCO	Small	44	35	5	4	9	4		<b>0 0-2 2-4 4-6 6-8 &gt;=8</b>		
19 WLCH_WCO	Large	14	7	13	37	5	24		<b>0 0 0 0 0 0</b>		
20 WLCH_WCA	Open	60	11	20	0	3	7				
21 WLCH_WCA	Small	40	25	19	11	2	4				
22 WLCH_WCA	Large	27	28	16	13	7	9				
23		<b>0</b>	<b>0-1</b>	<b>1-2</b>	<b>2-3</b>	<b>3-4</b>	<b>&gt;=4</b>				
24 SWOMC	Open	73	3	8	7	1	9				
25 SWOMC	Small	78	8	9	3	1	1				
26 SWOMC	Large	41	8	20	10	6	15				
27											
28											
29											
30											

## Step 5 – Create List of Watersheds with HUC10 Code and Watershed Name – OPTIONAL

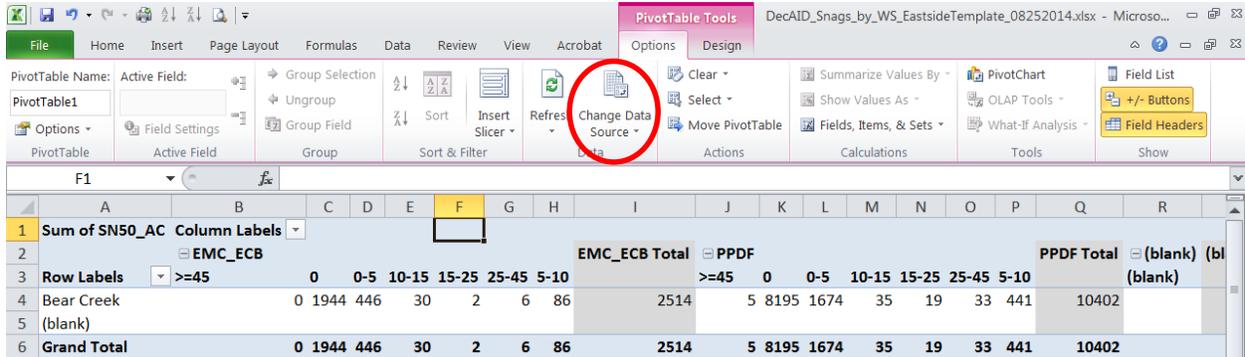
This step is optional if you would like a complete set of Watershed Names and Codes.

- Copy the data in the \*\_huc\_10 spreadsheet that was exported from ArcGIS to Excel.
- Paste the data in the Watershed tab (blue tab). Paste over the existing few rows of example data. Make sure you have scrolled all the way to the top of the worksheet and paste the data by selecting cell **A2**, right click and paste.

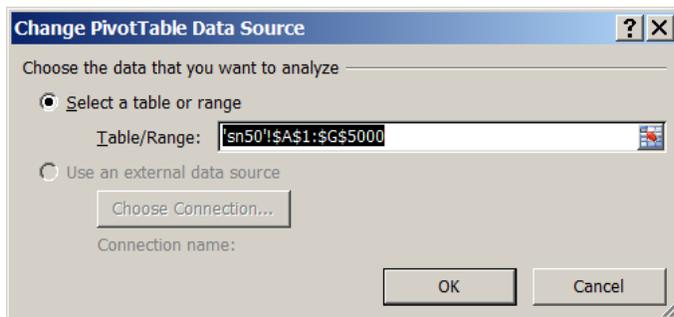


## Appendix A – Changing Data Source in a Pivot Table

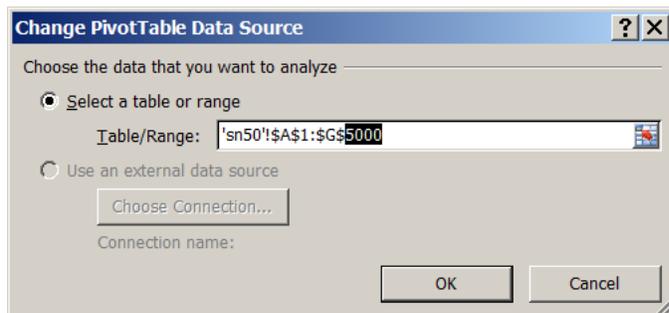
If data for your Forest or Analysis Area contains more than 5,000 rows you will need to update the data source using PivotTable Tools/Options/Change Data Source.



You will get this window:



Highlight the 5000 value and type in the number of the last row of your data then click OK.



Refresh data as per instructions in Step2. Do this for each Pivot table.