Performance Dashboard Tutorial

(In-Depth Instructions)

Example #1: Adding data to an existing map

Process

- Add in the bike crash locations layer
- Save the map as a jpeg

Dashboard allows users to add their own data layers to an already existing map. For example, let's add bike crashes to the bike level of service layer (Bike_Crash_Severity).

1. Type in www.compassidaho.org/dashboard to get to the dashboard site.

2. Open the "Health" tab.

3. Select the "Household Connectivity-Parks" map.

4. Click on the gear button in the upper-left corner.

Figure 1. Gear button

5. Select the "Geometry" tab in that window.

6. Click on the arrow button in the upper-right corner of that window.

Figure 2. Arrow button

7. Click "WeaveDataSource."

8. Open "Geometry Collections."

9. In the menu on the right, select the "Bike_Crash_Severity" layer.

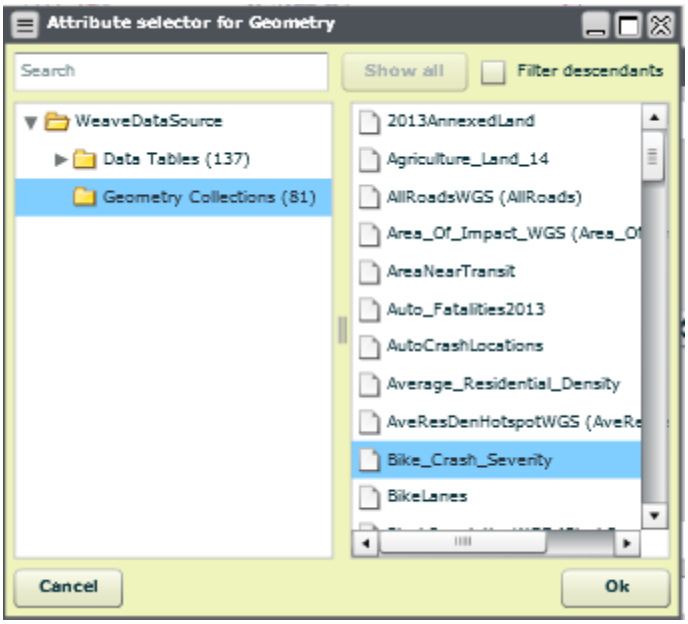


Figure 3. Attribute selector window

10. Click "Ok" to close the attribute selector window.

11. Check the "Default Color" box.

12. Click the white square on the right of the "Default Color" box.

Figure 4. Default color

13. Select a red color. This will mark locations of bike crashes as red on your map.

14. Click "Ok" to close the GeometryPlotter settings window.

15. Click "Ok" again to close the MapTool settings window.

16. Use the zoom tool and zoom to downtown Meridian.

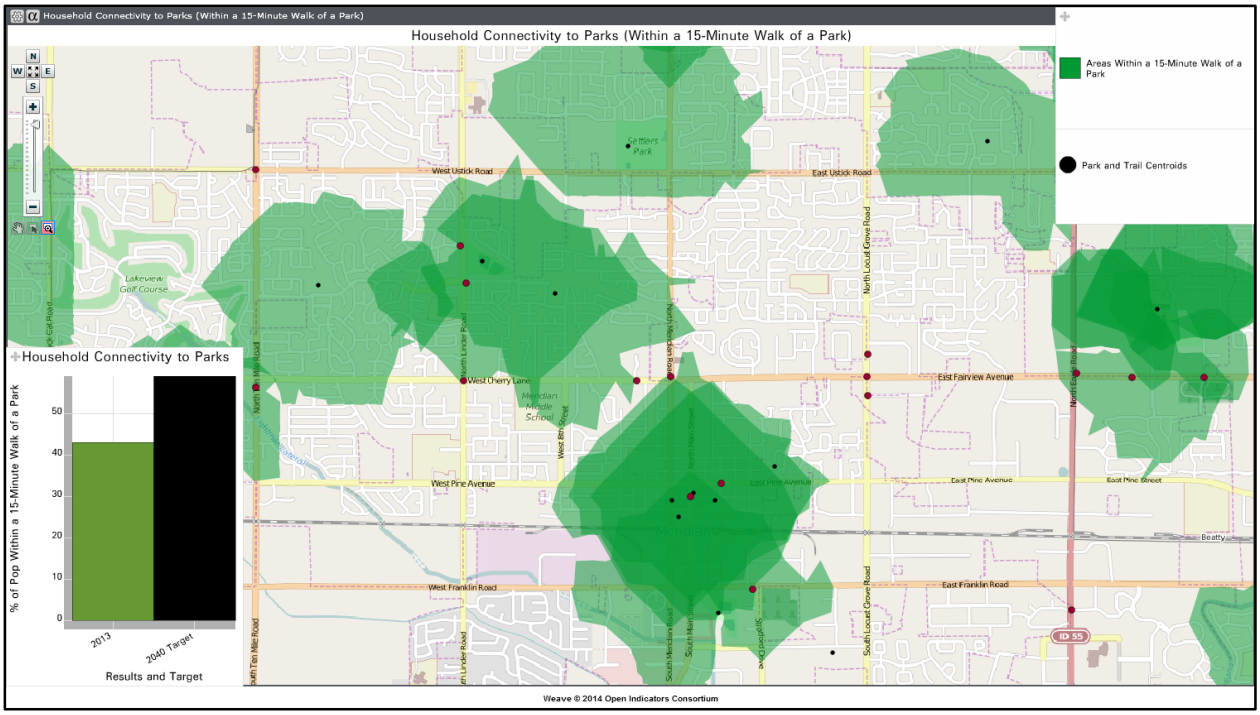


Figure 5. Completed map for Example #1

17. Right click on the map and select "Print/Export Application Image."

18. Click "Save as Image."

19. Name your map as a jpg or png file (e.g. BikeCrashMap.jpg) and save it to your preferred location. If you would prefer to save the map without graphs and legends, select "Print/Export Application Image of Household Connectivity to Parks (Within a 15-Minute Walk of a Park). Make sure to add the extension to the end of the file name. Depending on your computer, the file extension may default to a jpg or png.

Challenge #1: Adding data to an existing map

To start:

1. Open the "Open Space" tab.

2. Select the "Boise River Greenbelt-Miles" map.

Next:

Using the instructions from Example #1 to help you, add bike crashes (Bike_Crash_Severity) to the "Boise River Greenbelt-Miles" map. When you are finished, your map should look like this:

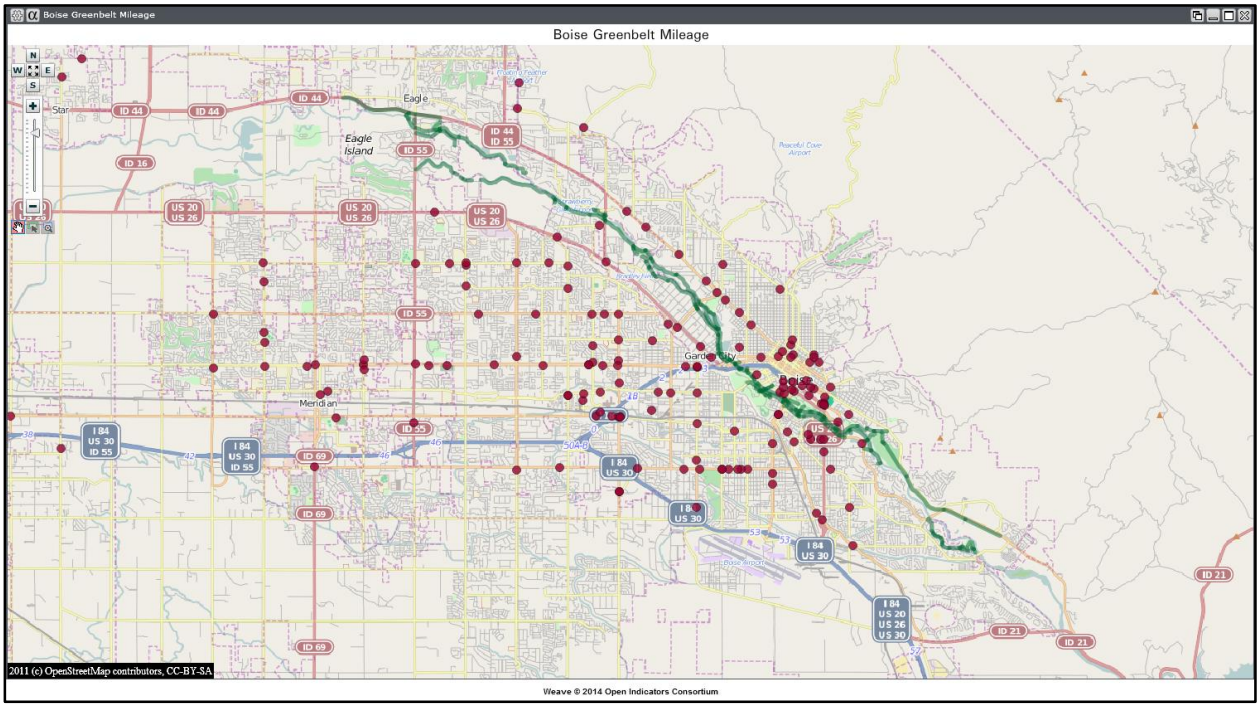


Figure 6. Map for Challenge #1 before zooming in

3. Use the zoom tool and draw a rectangle around downtown Boise

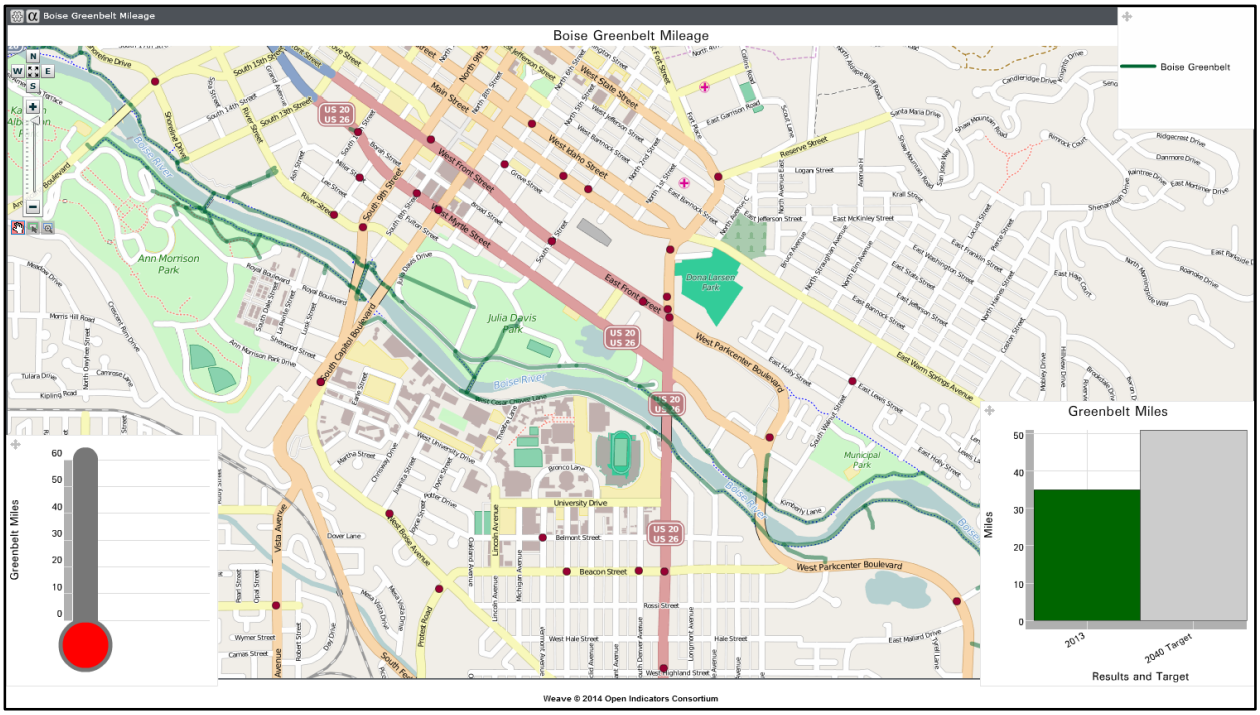


Figure 7. Map for Challenge #1: bike crashes in downtown Boise

4. To save, export the map as a .jpg or .png image and save it to your preferred location.

Example #2: Add a Data Table and Download Data

Process

- Add a data table in dashboard
- Remove default attributes and add in the attributes to be downloaded
- Export the file in a csv format

1. Select the "Health" tab.

2. Select "Household Connectivity-Grocery Stores." This map shows the locations of grocery stores in 2013 and a 15-minute walking radius around each store (in yellow).

3. Under the tools tab, select "Add Data Table." You will notice that the data table defaults to the top layer and only shows the name of the grocery store. The data that we will be downloading is the store name, acres, and total population from the "Connectivity_Grocery_Stores" data table.

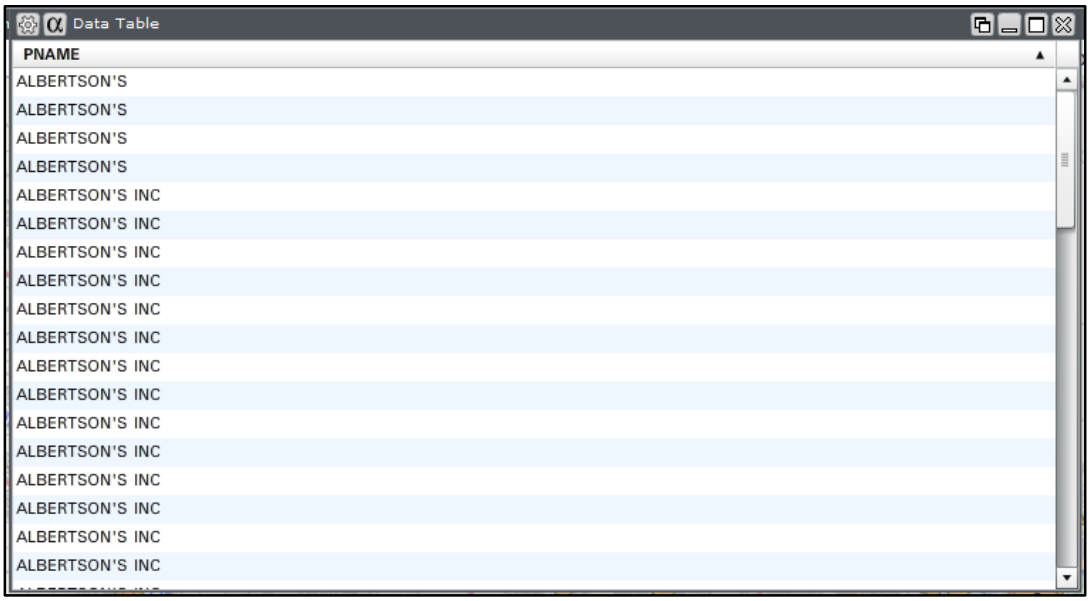


Figure 8. Data table

4. Click on the "double square button" in the upper right corner of the graph.


Figure 9. Double square button on the data table

5. Select "Always above" so the graph does not become hidden under the map.

6. Click the gear button in the upper-left corner of the data table.

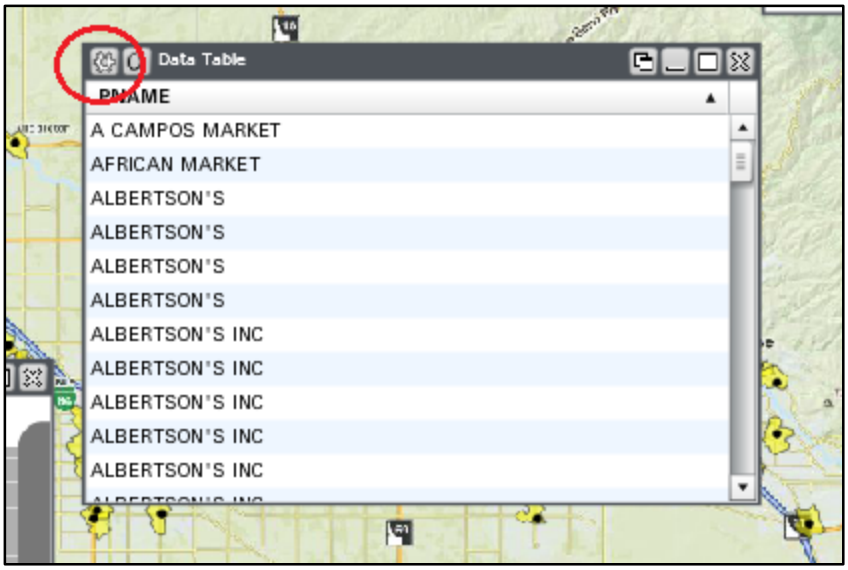


Figure 10. Data table gear button

7. Select "PNAME (Grocery_Store_Points -> string)."

8. Click "Remove selected." (Note: Not every map will have a layer that needs to be removed. If nothing appears, skip to the next step.)

9. Click "Open selector."

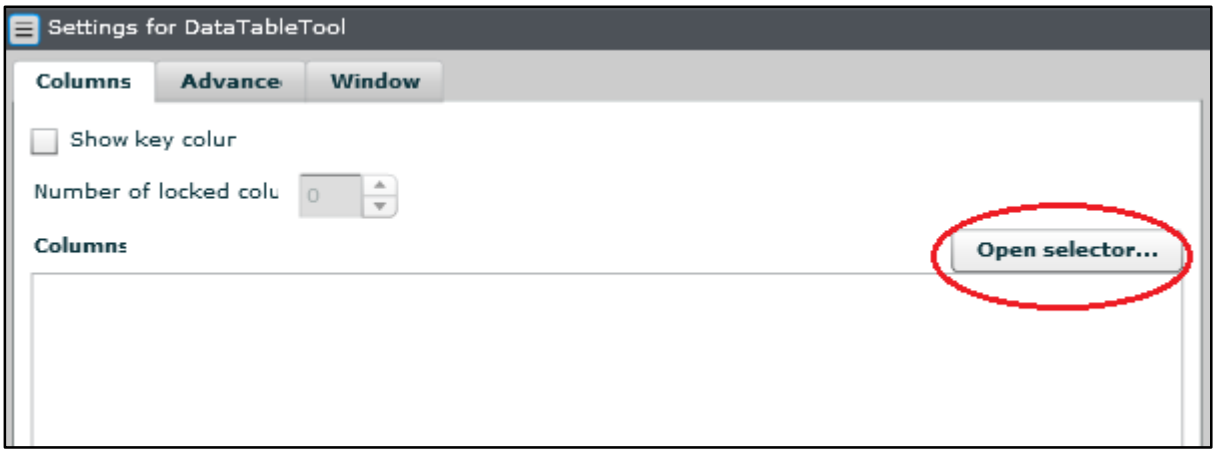


Figure 11. Open selector button

10. Click "WeaveDataSource."

11. Click "Data Tables (137)."

12. In the left menu, scroll down and select "Connectivity_Grocery_Stores (15)."

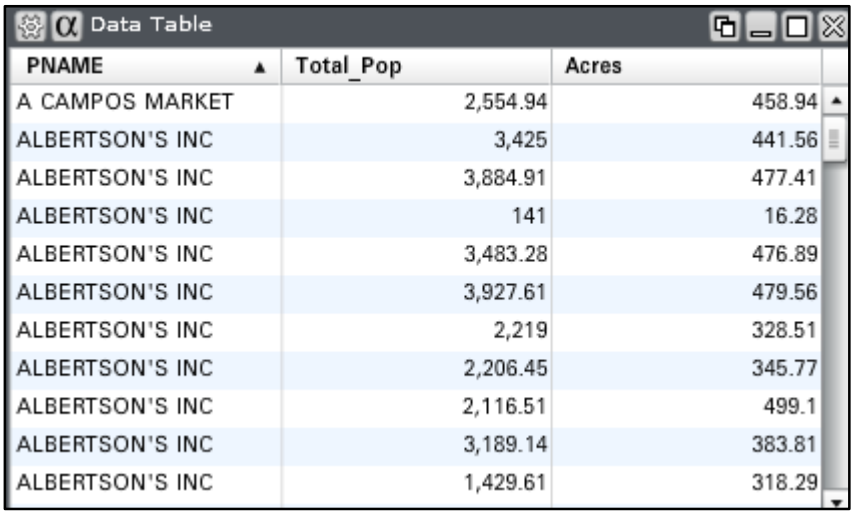
13. In the right menu, **select "PNAME."**

14. Click "Add selected."

15. Repeat steps 13 and 14 with "Total_Pop" and **"Acres."**

16. Click "Ok" to close the Attribute Selector window.

17. **Click "Ok"** to close the DataTableTool settings window.



PNAME	Total_Pop	Acres
A CAMPOS MARKET	2,554.94	458.94
ALBERTSON'S INC	3,425	441.56
ALBERTSON'S INC	3,884.91	477.41
ALBERTSON'S INC	141	16.28
ALBERTSON'S INC	3,483.28	476.89
ALBERTSON'S INC	3,927.61	479.56
ALBERTSON'S INC	2,219	328.51
ALBERTSON'S INC	2,206.45	345.77
ALBERTSON'S INC	2,116.51	499.1
ALBERTSON'S INC	3,189.14	383.81
ALBERTSON'S INC	1,429.61	318.29

Figure 12. Completed data table for Example #2

18. To save, **right click the data table and select "Export CSV."**

19. Name your data table and save it as a csv file (e.g. GroceryMap.csv) and save it to your preferred location. The csv file can now be opened in Excel for further analysis.

20. Close the map and return to the dashboard home page.

Challenge #2: Add a Data Table and Download Data

To start:

1. Open the "Land Use" tab.

2. Select the "Jobs - Downtowns" map.

3. Under the tools tab, select "Add Data Table."

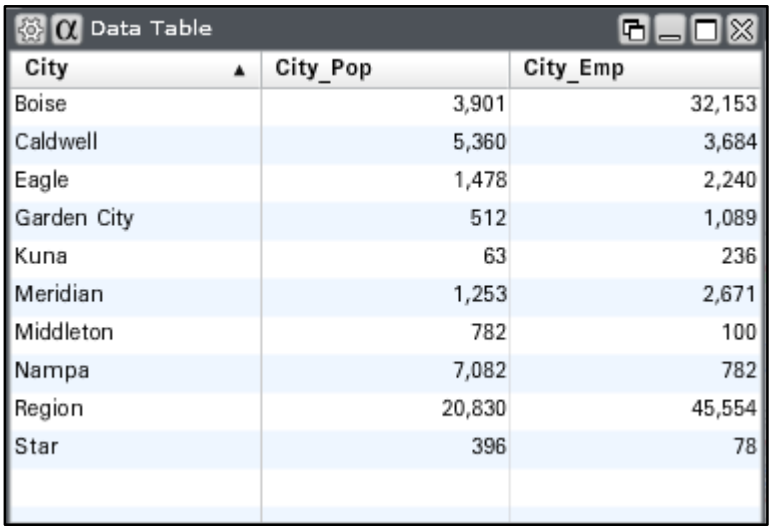
4. Use the Attribute Selector to select the "Downtown_Populations" folder.

For this challenge you will skip steps five and six since there is no data to remove.

Using the instructions from Example #2 to help you, add "City_Pop" (downtown populations by city) and "City_Emp" (downtown employment by city) to your data table.

Next:

When you are finished, your data table should look like this:



City	City_Pop	City_Emp
Boise	3,901	32,153
Caldwell	5,360	3,684
Eagle	1,478	2,240
Garden City	512	1,089
Kuna	63	236
Meridian	1,253	2,671
Middleton	782	100
Nampa	7,082	782
Region	20,830	45,554
Star	396	78

Figure 13. Completed data table for Challenge #2

Example #3: Make a Map

Process:

- Add base map
- Add in a layer
- Select color scheme and adjust transparency
- Add a title

1. Click the drop-down menu called "Performance Measures" tab across the top of the webpage.

Figure 14. Performance Measures tab

2. Select "Other."

3. Select "Blank Map for Analysis". From this blank map, you will add in the auto crashes layer.

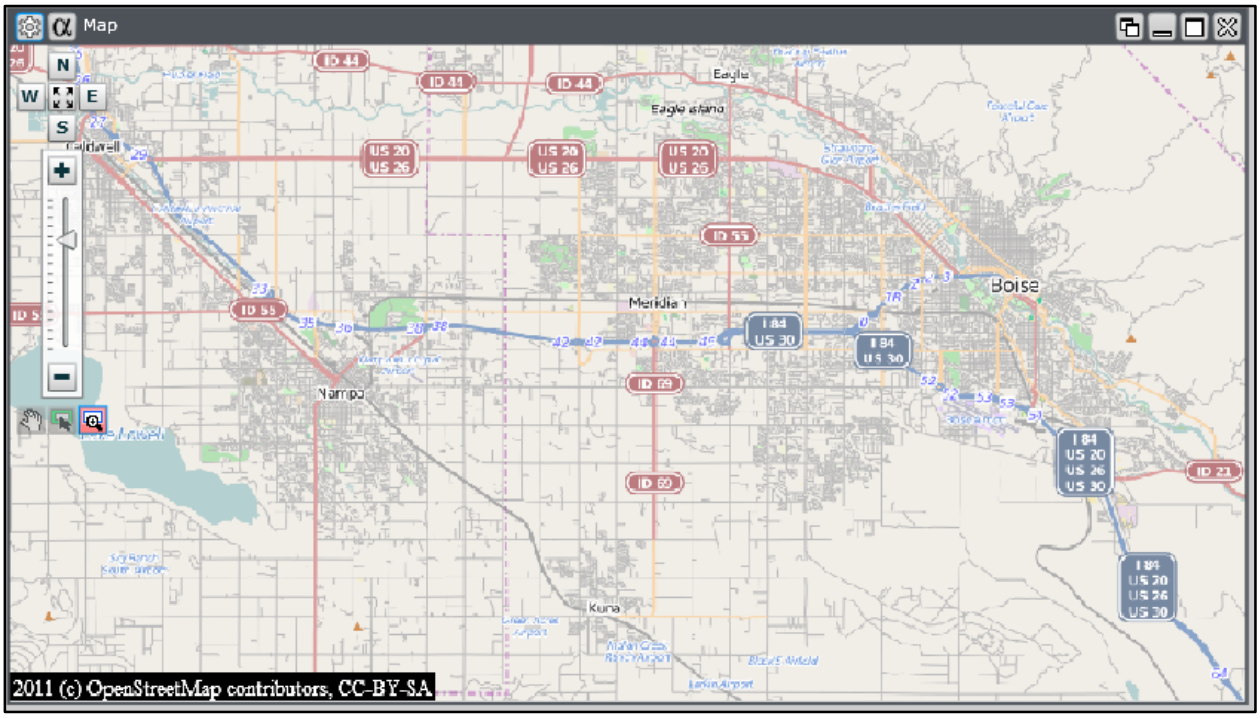


Figure 15. Base map, zoomed into the Treasure Valley

4. Click on the "gear" button. You will now add a layer to the base map.

5. Select the "Geometry" tab.

6. Click the arrow button in the upper right corner.

7. Select "WeaveDataSource."

8. Select "Geometry Collections."

9. Select "AutoCrashLocations."

10. Click "Ok" to close the Attribute Selector box.

11. Click on the arrow next to the color dialog box.

12. On the right side, add "FIRST_SEVE" as the color scheme since the color scheme is based on the severity of auto crashes.

13. Click "Ok" to close the Attribute Selector box.

14. Change the "icon size" to 5 using the down arrow to the right of the dialog box. *The dots showing the auto crash locations default to a size ten.*

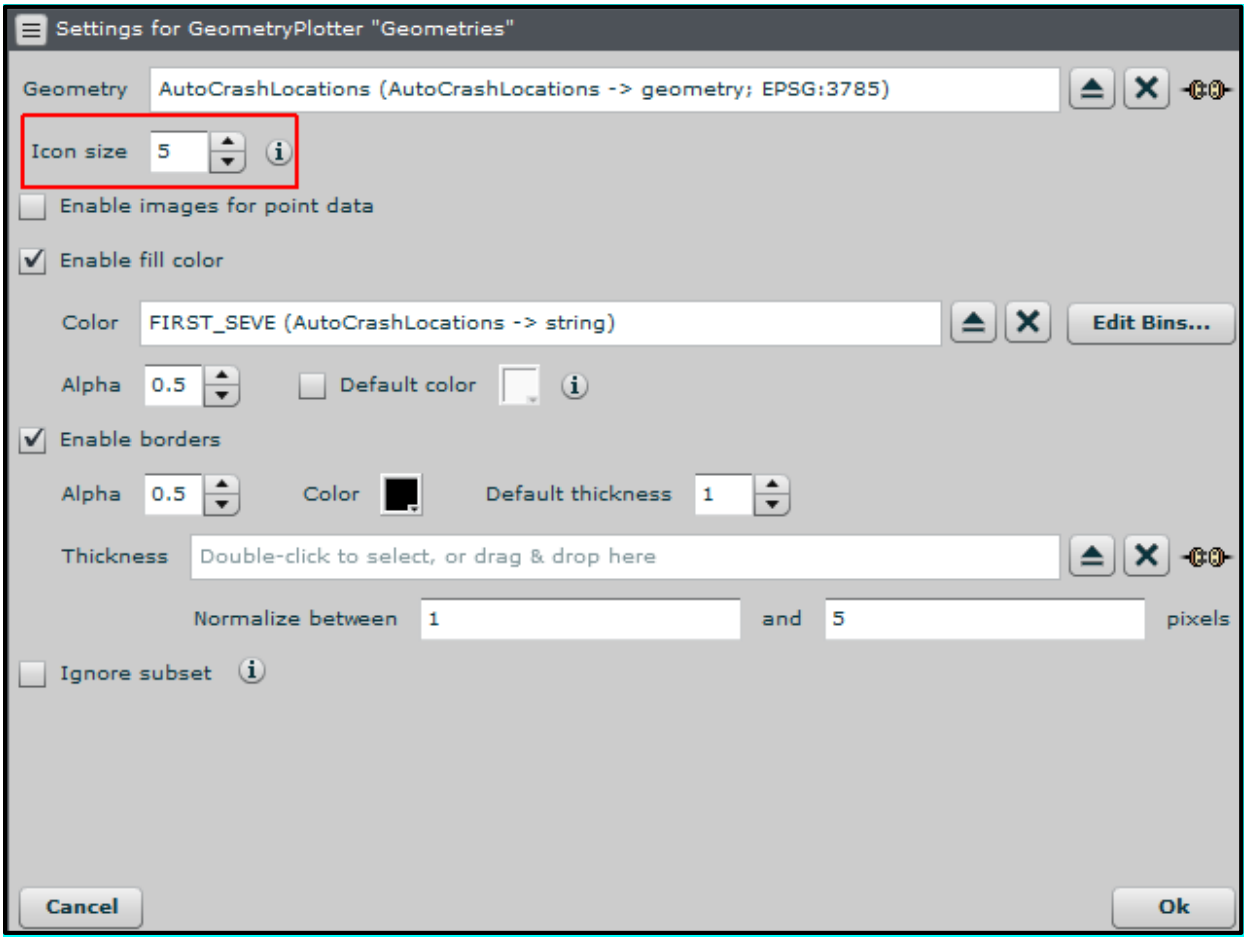


Figure 16. The icon size setting

15. Click the "Ok" button to exit the geometry plotter settings.

Adding a Title

16. To add a title to the map, **click the "Window" tab and check the "visualization title" box**.

17. Type in "Auto Crash Locations in Ada and Canyon Counties" for the title.

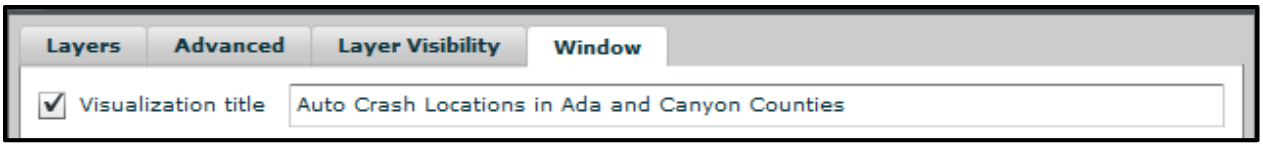


Figure 17. The visualization title (map title)

18. Click "Ok" to close the MapTool settings box.

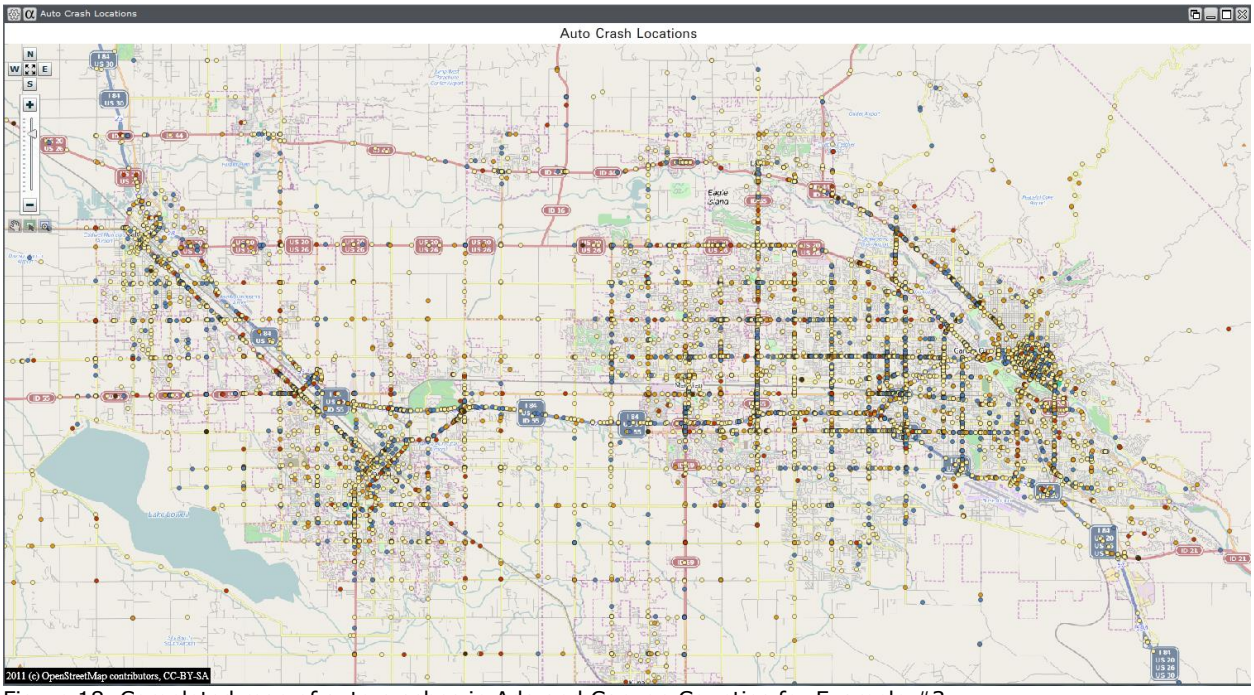


Figure 18. Completed map of auto crashes in Ada and Canyon Counties for Example #3

19. Save and close the map. Return to the dashboard homepage.

Challenge #3: Create a map showing pedestrian crashes

To start:

1. **Click the drop-down menu called "Performance Measures" tab across the top of the webpage.**

2. Select "Other."

3. Select "Blank Map for Analysis." From this blank map, you will add in the pedestrian crashes layer.

4. Click on the "gear" button. You will now add a layer to the base map.

5. Select the "Geometry" tab.

6. Click the arrow button in the upper right corner.

7. Select "WeaveDataSource."

8. Select "Geometry Collections."

9. Select "Pedestrian_Crash_Locations"

10. Click "Ok" to close the Attribute Selector box.

11. Click on the arrow next to the color dialog box and on the right add **"Severity_2" as the color scheme.**

Next:

1. Follow steps 13-19 from Example #3 to finish creating your map.

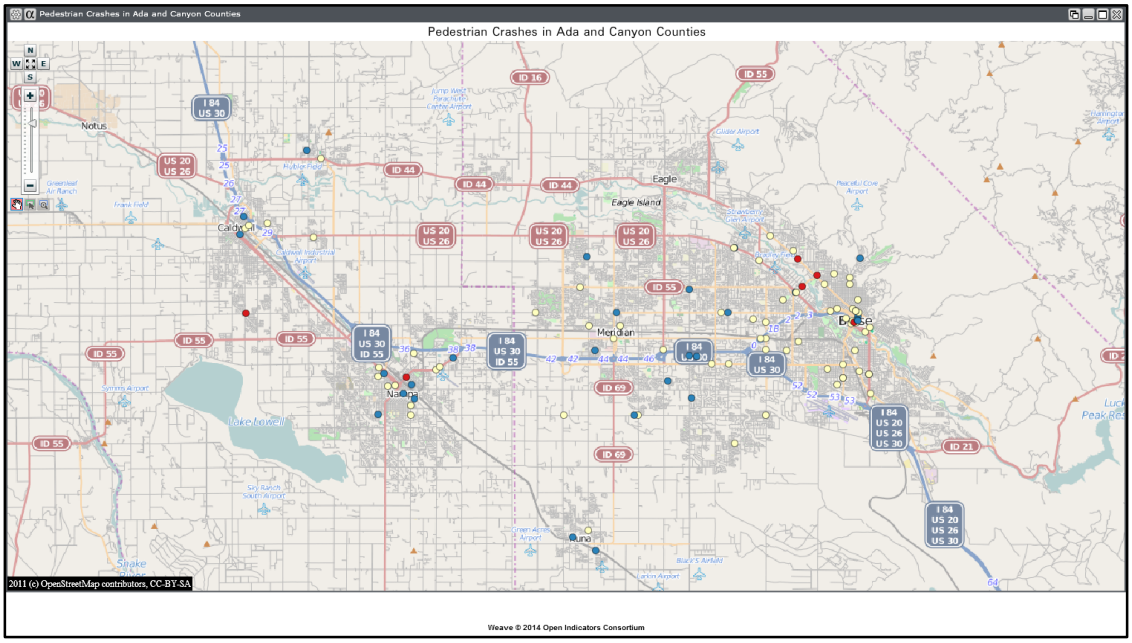


Figure 19. Completed map for Challenge Three

Example #4, Extra: Create a Graph (Histogram)

Process

- Add a graph (histogram) to dashboard
- Select the grouping (classes) and height (frequency) variables
- Add in the histogram title and the axis labels

1. Select the "Transportation" category.

2. Open the "Park and Ride Spaces" map.

3. Under the "Tools" tab, select "Add Histogram."

4. Click on the "double square button" in the upper right corner of the graph.

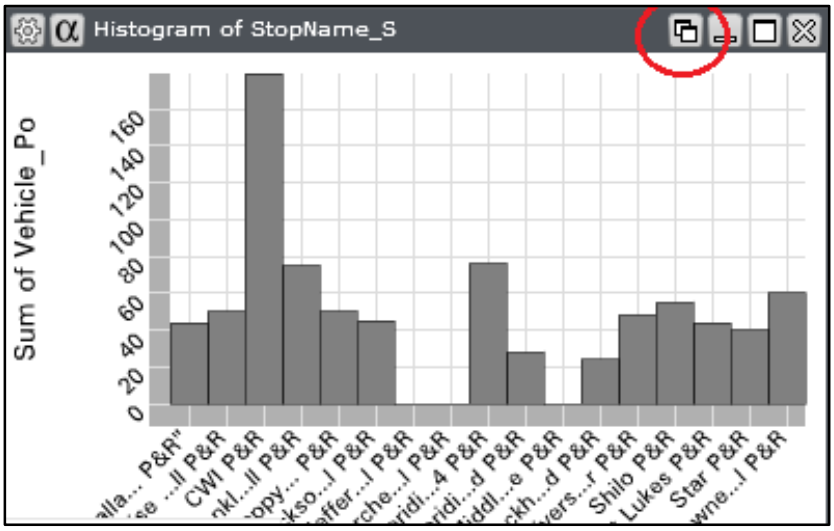


Figure 20. Double Square button

5. **Select "Always above"** so the graph does not become hidden under the map.

6. Click the "gear" button in the histogram window.

7. Click on the arrow to the right of the grouping variable dialog box.

8. Click "WeaveDataSource."

9. Double click "Data Tables (137)."

10. Select "ParkandRides (20)" in the left column of the window.

11. Select "StopName_S" on the right column. This data will be displayed on the horizontal axis.

12. Click "Ok" to close the Attribute Selector box.

13. Set the number of bins to 17 so all 17 park and ride locations will appear on the graph.

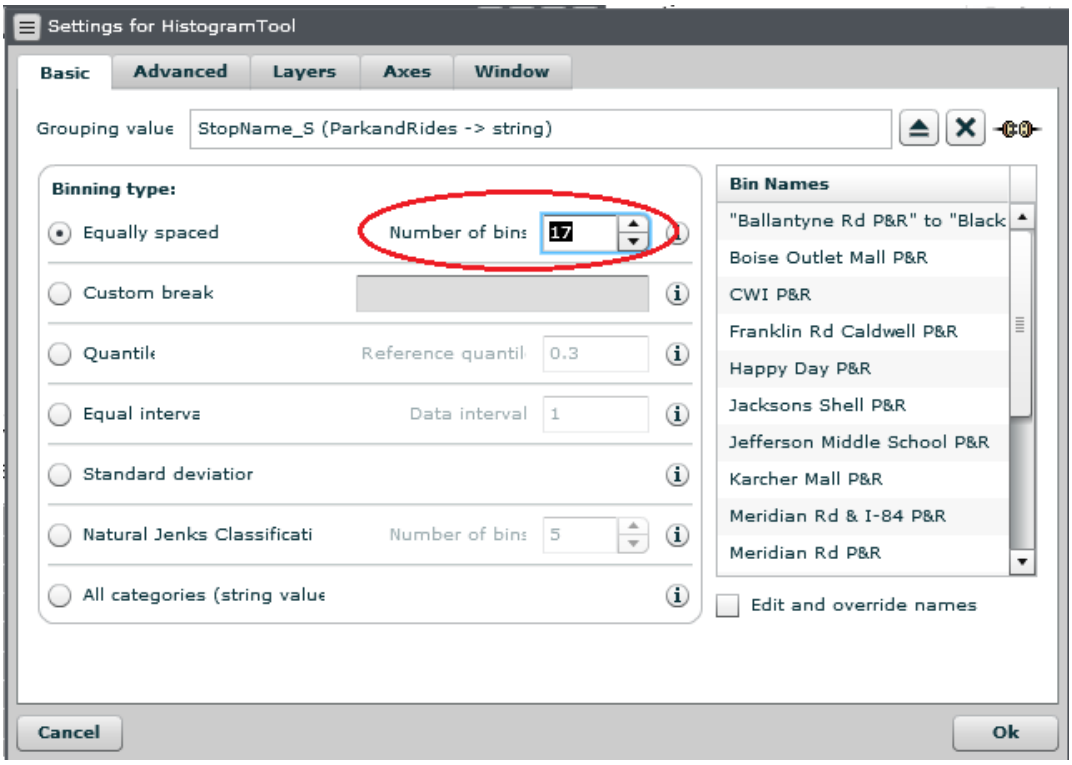


Figure 21. Binning methods for the Park and Ride Histogram

14. Click the "Advanced" tab.

15. Click the arrow to the right of the "height values" dialog box.

16. Select "Vehicle_Po" from the right column. "Vehicle_Po" (vehicle potential) represents the number of parking spaces at each park and ride.

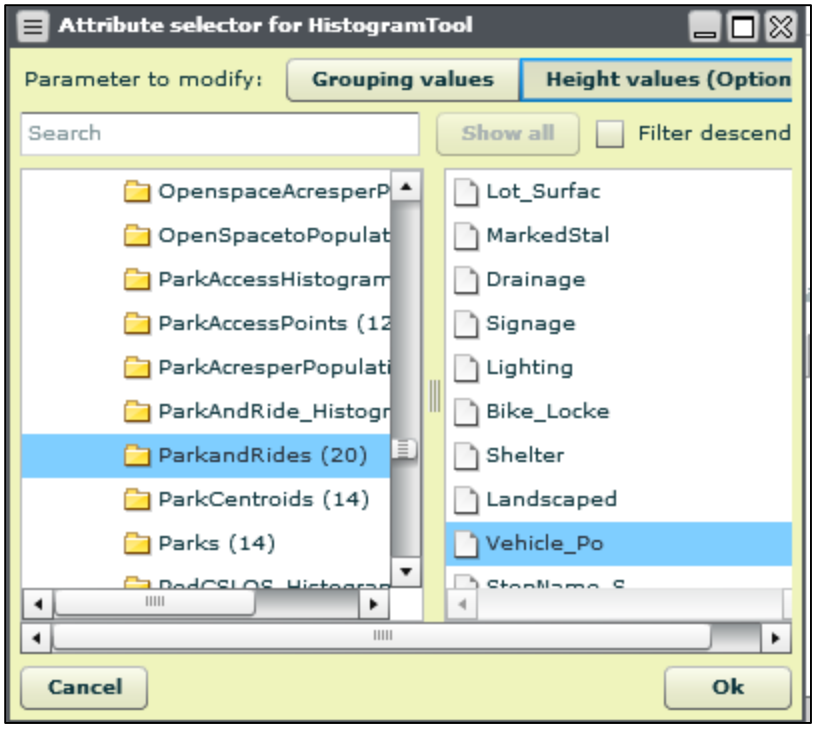


Figure 22. Attribute selector window

17. Click "Ok" to close the Attribute Selector box.

18. Switch the height aggregation method from "count" to "sum."

19. Click "Ok" to close the HistogramTool window. You may notice that three of the park and rides are shown as having zero parking spaces. This is because these park and rides share parking spaces with other buildings making it difficult to distinguish the number of parking spaces.

20. Click on the "gear" button in the graph window.

21. Click the "Axes" tab.

22. Check the box next to "visualization title."

23. Type in "*Number of Parking Spaces in Ada and Canyon Counties*" in the dialog box to the right of the visualization title box. This will be the title of your graph.

24. Select the Y-Axis properties tab (under the Axes Tab) and enter "*# of Parking Spaces*" in the axis title dialog box.

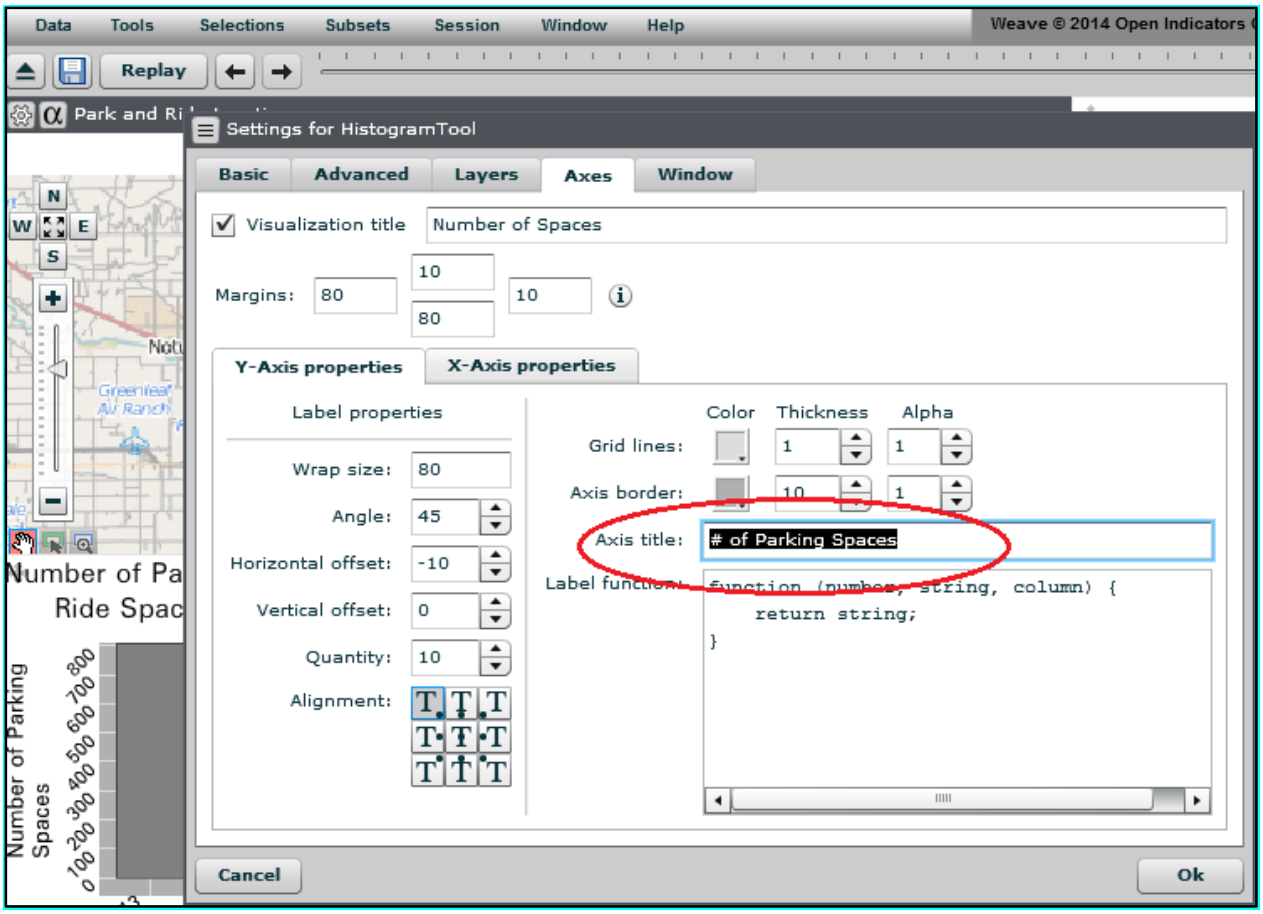


Figure 23. Histogram tool settings window

25. Select the X-Axis properties tab and enter "*Location Name*" in the axis title dialog box.

26. Click the "Ok" button to exit the histogram tool settings window.

27. To save, right click the graph and click "Print/Export Application Image" or "Export CSV." Remember to save your graph as either .jpg or .csv at the end of the name you give it (e.g. ParkAndRideGraph.jpg).

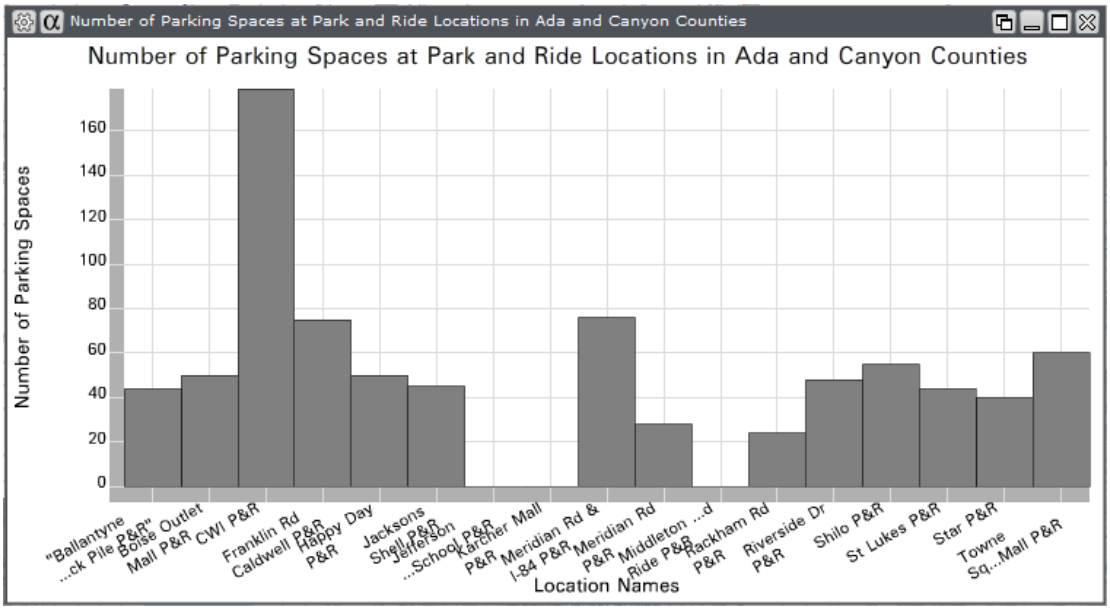


Figure 24. Completed Park and Ride parking spaces graph for Example #4 (extra)

28. Close the map and return to the dashboard home page.

Other Dashboard Features

Adding Annotation (text)

1. Right click on the map and select "add annotation" from the dropdown menu. A white box will appear along with the settings for the text box. Feel free to add in text and adjust the settings.

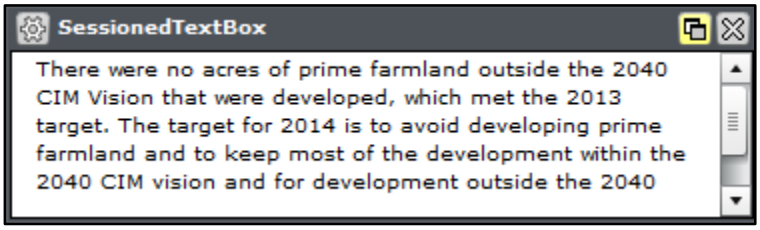


Figure 25. Annotation

Adding a Circle

1. Right click on the map and select "add circle"
2. Type in "*5,280*" in the radius dialog box and leave the rest of the settings as the default. A one mile circle should appear at the center of your screen.

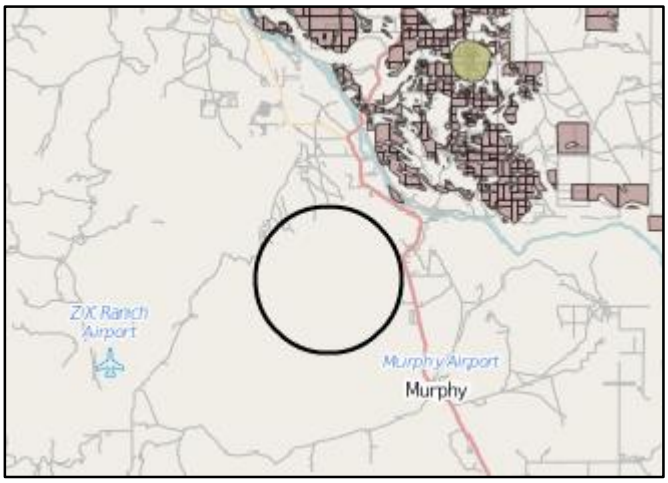


Figure 26. Adding a circle

Replaying your map

1. Pull the slider all the way to left at the top of the screen and click on the "Replay" button. This feature allows you to view the map history.

Figure 27. Replay button

Figure 28. Replay slider