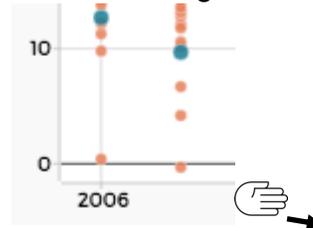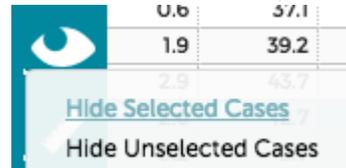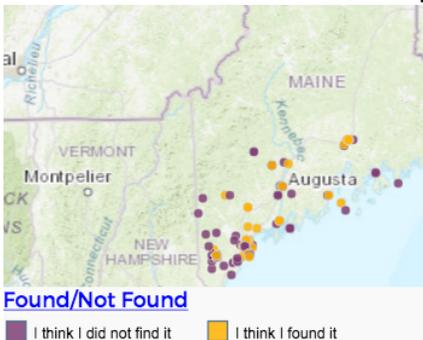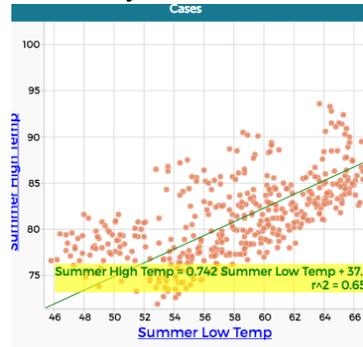|	
Data Tool- Change the scale of the axes Change your x or y axis to zoom way in on the data in your graph.	**Data Tool- Change the scale of the axes** **Hint:** Hover the cursor over the axis until the hand is pointing in the direction you want to drag the numbers. Click and drag.
Data Tool- Hide Data Hide some of the data on your graph or map.	**Data Tool- Hide Data** **Hint:** ● Highlight a few data points either on the table, map or graph. ● Click on the eye on the sidebar of the map or graph. ● Select "hide selected" and watch them disappear. Try hiding "unselected" cases, too!
Data Tool- Add a Layer Add a layer to your graph or map to color code the data. Example: 	**Data Tool- Add a Layer** **Hint:** Drag the attribute that you want to be your layer to the middle of your map or graph.

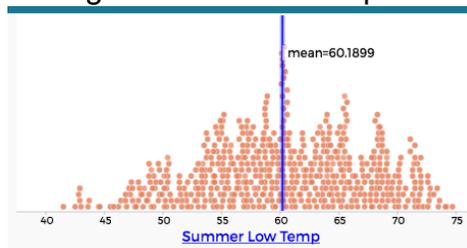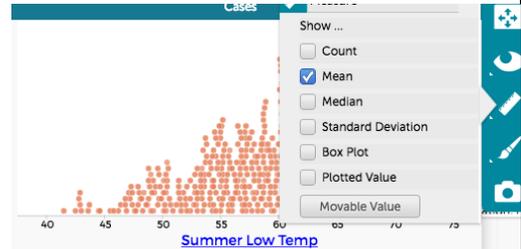| Data Tool- Trend Line	Data Tool- Trend Line
Add a line that helps you see the trend in your data.	**Hint:** ● Go to the ruler at the side of the graph and look for the "Least squared line" ● The steeper the line, the stronger the relationship between the two attributes.

Data Tool- Trend Line

Add a line that helps you see the trend in your data.

Cases

Summer High Temp = 0.742 Summer Low Temp + 37.
r^2 = 0.65

Summer Low Temp

Data Tool- Find the Mean

Find the average value for one attribute. For example, find the average summer low temperature:

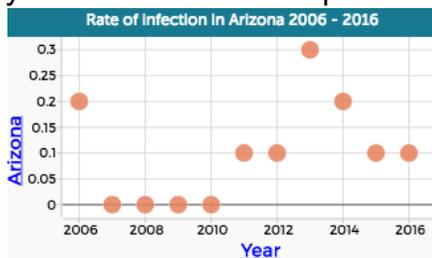mean=60.1899

Summer Low Temp

Data Tool- Find the Mean Hint:
● Make a graph with the attribute you are interested in on the x axis and nothing in the y axis.
● Select "Mean" from the options listed under the ruler.

Cases
Show ...
☐ Count
☑ Mean
☐ Median
☐ Standard Deviation
☐ Box Plot
☐ Plotted Value
Movable Value

Summer Low Temp

Data Tool- Add a Title

Add a title to a map or graph that you have made. Example:

Rate of Infection in Arizona 2006 - 2016
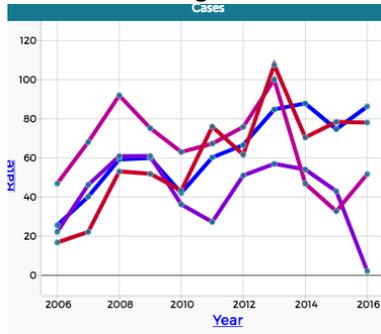
Arizona

Year

Data Tool- Add a Title Hint:

Click on the blue-green bar at the top of the map or graph.

Write a title that helps explain what the graph or map is showing.

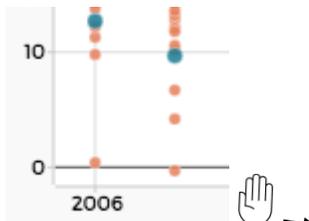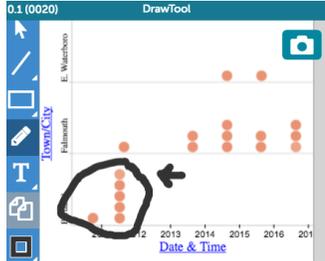| **Data Tool- Connecting Line** Add "connecting" lines to a graph to show change over time.	**Data Tool- Connecting Line** **Hint:** ● A graph that shows change over time should have "Year" on the x axis ● Once you have made your graph, find "connecting lines" under the ruler icon.
Answer a Question: Which towns do most of the data come from? Where are they located?	**Answer a question:** **Hint:** Try using a map *and* a graph to answer this question
Answer a question: When was most of the data collected? Which schools have been collecting data over the greatest amount of time?	**Answer a question:** **Hint:** Expand the graph to see more detail.
Answer a question: How does the amount of "Found" data compare to "Not Found"? How does it compare in different parts of the state?	**Answer a question:** **Hint:** Try using a map *and* a graph to answer this question

Answer a Question **Bonus question:** Is purple loosestrife most often found in dry or moist soil?	**Answer a Question** **Hint:** Divide "FOUND" and "NOT FOUND" Data Add percentages to your graph to help with comparing categories.
Answer a Question **Bonus question:** Is purple loosestrife most often found under open or covered canopy?	**Answer a Question** **Hint:** Divide "FOUND" and "NOT FOUND" Data Add percentages to your graph to help with comparing categories.
Answer a Question **Bonus question:** What can you say about biodiversity in wet versus dry soil?	**Answer a Question** **Hint:** Add a mean and median to help with your comparison.
Answer a Question **Bonus question:** Write your own question and hint.	**Answer a Question** **Hint:**

Data Tool - Change the Size	**Data Tool - Change the Size**
Make your map or graph really big on the screen, so you can see lots of detail. Make it small to leave room for other data visualizations.	**Hint:** Hold the cursor the bottom left corner of the graph or map. When you see the diagonal arrow, click down and drag.
Data Tool - Move it	**Data Tool - Move it**
Move your graph or map off to the side of your screen, so you will have room to make a new one.	**Hint:** Click on the blue green bar at the top of the graph or map and then drag.
Data Tool - Move the Axes	**Data Tool - Move the Axes**
Move either the x or y axis without changing the scale.	**Hint:** Hover the cursor over the axis until the hand is pointing toward the middle of the graph. Click and drag from side to side.
Data Tool - Remove an attribute	**Data Tool - Remove an attribute** **Hint:**
Remove an attribute from either the x or y axis.	Click on the name of the attribute in the graph. Scroll down to the bottom of the list, and select "Remove Y" or "Remove X"

Data Tool - Annotate a graph Take a snapshot of your graph and then circle, star, or underline interesting data points. 	**Data Tool - Annotate a graph** **Hint:** Go to the camera icon and select "open in draw tool." Click on the pencil icon in the draw tool and then annotate away!
Data Tool- Minimize a graph or map Minimize your map or graph in order to get it out of the way and allow you to go back to it later.	**Data Tool- Minimize a graph or map** **Hint:** Find the minus sign ("--") at the top right corner of the map or graph.