

Accessing Endicott's ArcGIS Online Account

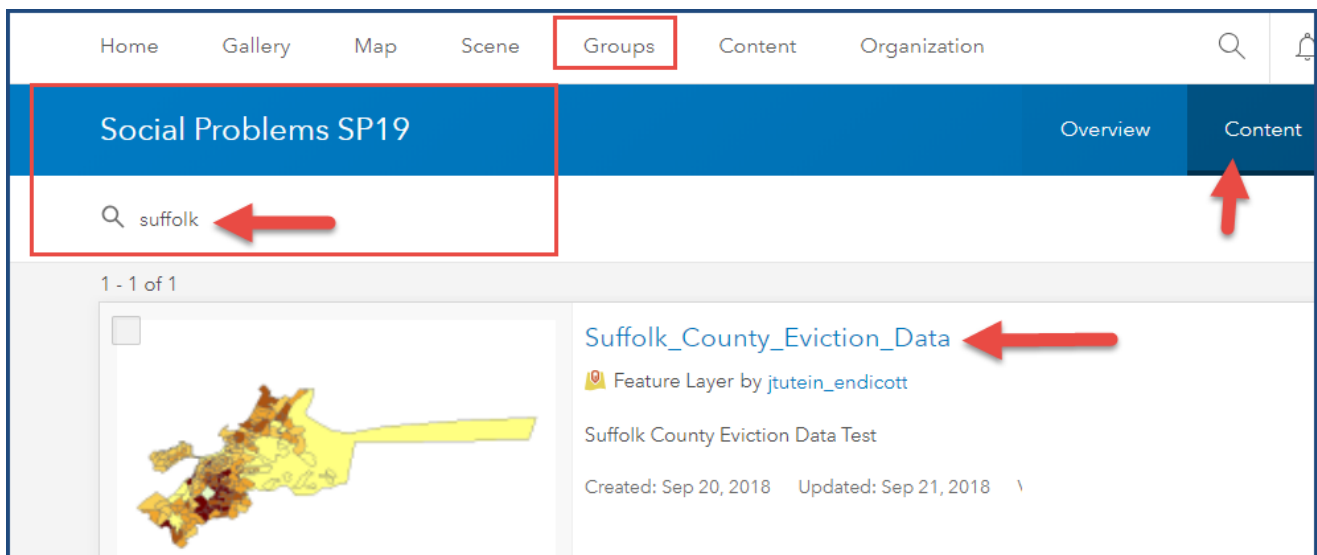
- Enter this URL to sign in: <https://ecat.maps.arcgis.com/home/signin.html>
- Then enter your username and the password that you created when you activated your ArcGIS account.
- Once you have logged in, you will see the Dashboard Home page.



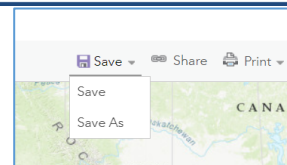
Create Boston Neighborhood Rent Burden and Evictions Map

1. Open the **Suffolk County eviction map** which you will find in **Groups, Social Problems SP19**.

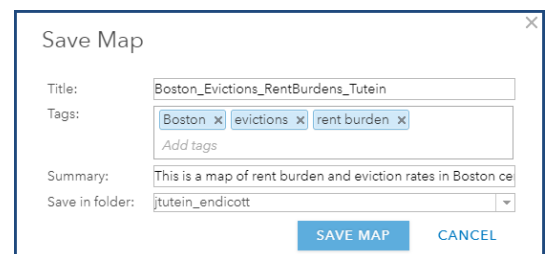
- Click the map title: **Suffolk_County_Eviction Data**.
- When the Map Information displays, click on **Open in Map Viewer** in the right side bar.



2. Save a copy of the map using the **Save, Save As** option in the Ribbon and complete the prompts in the Save Map dialog that displays:



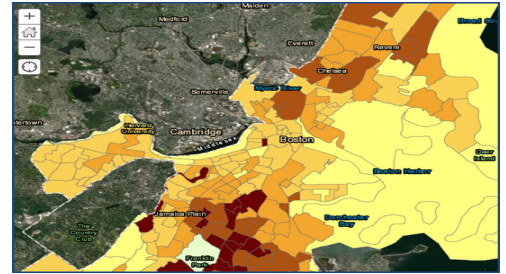
- For **Title**, enter **Boston_Evictions-RentBurdens_YOURLASTNAME**
- Enter **Tags**: **Boston, evictions, rent burden**.
- Enter a **Summary**: **This is a map of rent burden and eviction rates in Boston census tracts.**
- Click **Save Map** to save the data and close the dialog.



Step by Step Guide: Who Gets Evicted in Boston.

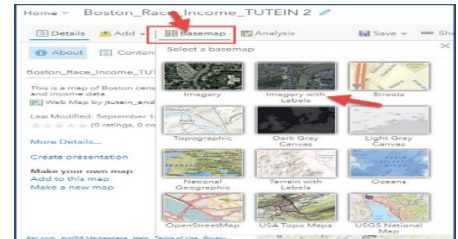
3. In the map section, **zoom** into the Boston area:

- Use the **+** button in the Maps Navigation panel and your **cursor** to zoom and position the map on Boston and surrounding towns.
- Bookmark this zoomed view so you can go back to it at any time.



4. Click the **BaseMap** option in the Ribbon and.

- Select the **Imagery with Labels** basemap.
- Click **Save** to save your updated map.



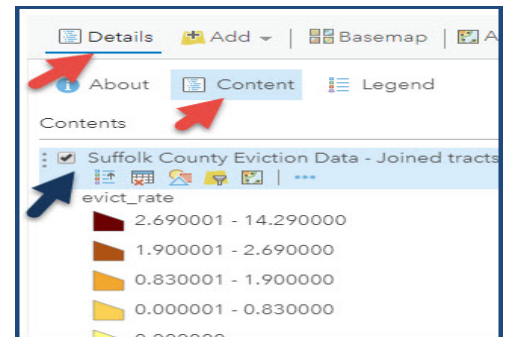
Explore Data Layer Details

5. Click **Details** in the Ribbon to access map content, legends and general information.

6. Now click **Content** to display the map layers.

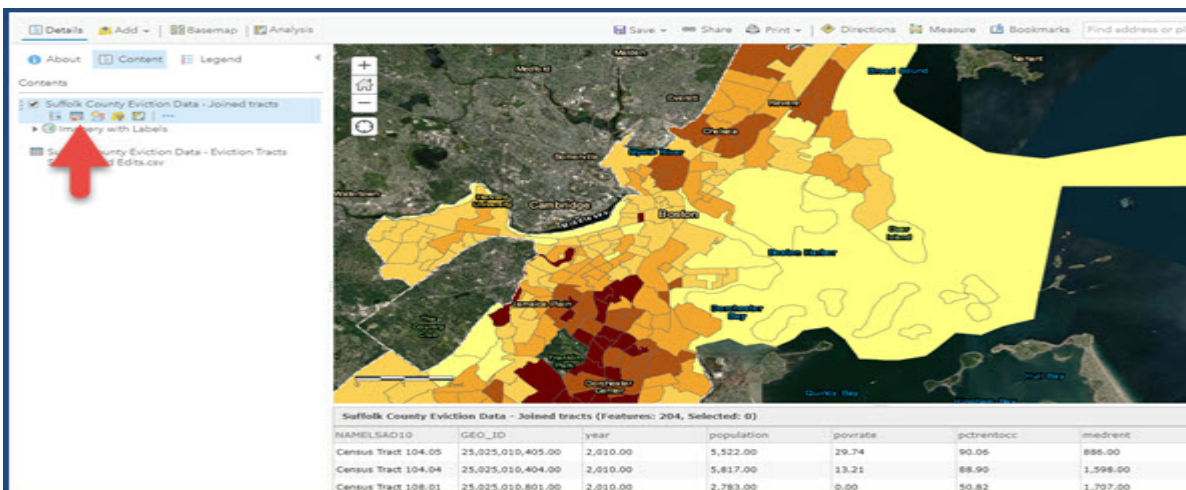
7. Verify that the **checkbox** next to **Suffolk County Eviction Data – joined tracks** is **checked**. If not, check it.

- Click the first icon to display the legend.



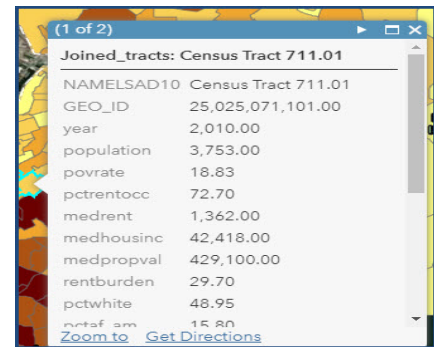
8. Open the **data table** (remember, it is the table image that appears when you hover over the dataset name in **Contents**).

- Take a few moments to familiarize with the variables in this chart.
- On the last page of this handout, you will find descriptions of each of the variables included in this table.



Step by Step Guide: Who Gets Evicted in Boston.

9. Click on a **Boston census tract** in the map area.
 - A **Census Tract XXXXX** menu displays with detailed eviction data for the tract.
 - Close the Joined_tracts pop-up menu when done.



(1 of 2)

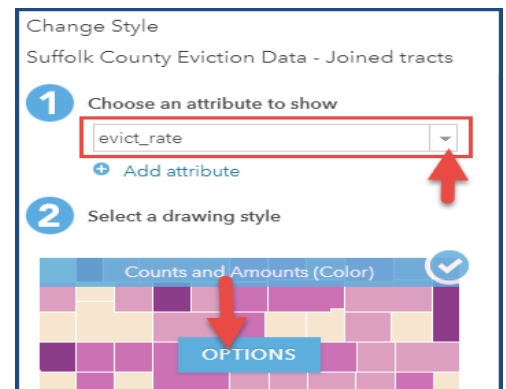
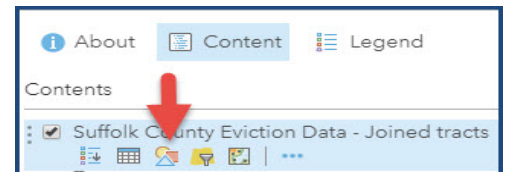
Joined_tracts: Census Tract 711.01

NAMLSAD10	Census Tract 711.01
GEO_ID	25,025,071,101.00
year	2,010.00
population	3,753.00
povrate	18.83
pctrentocc	72.70
medrent	1,362.00
medhousinc	42,418.00
medpropval	429,100.00
rentburden	29.70
pctwhite	48.95
ntaf am	15.80

[Zoom to](#) [Get Directions](#)

Styling Layers: Change style to Heat Map of Eviction Rates in Boston Census Tracts

10. Click the **Change Style** icon (third image under data set)
 - The Change Style Dialog Opens:
11. Under **1 Choose an attribute to show**,
 - Select **evict_rate** from the drop-down menu.
12. Under **2 Select a drawing style**:
 - Select **Counts and Amounts (Color)** and click on **Options**.



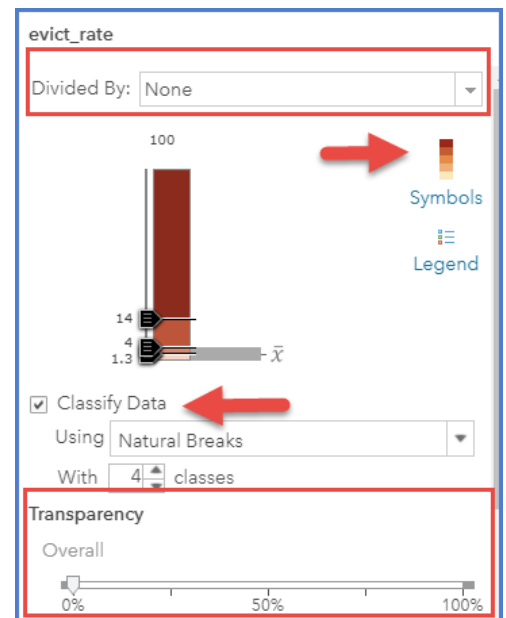
13. Now to style the medrent attribute:
 - In the **Divided By** option, select **None** from the drop down menu.

Note: We want to see the eviction rate for each Census tract and we don't want to divide it by any other values right now.

- In the Theme option, select High to Low.
- In the Classify Data option, select Natural Breaks in the drop-down menu.

Note: This creates classes based on the natural grouping of the data, instead of choosing arbitrary income ranges.

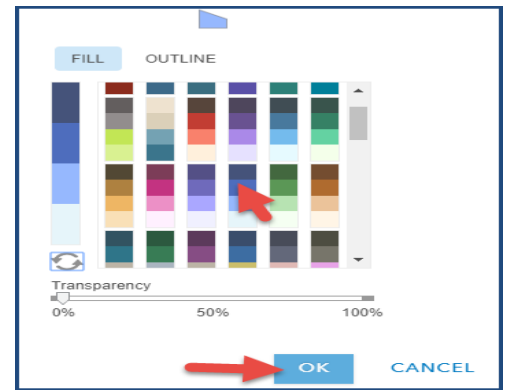
- In the With ___ classes option, select 4 for 4 classes of data.
- Make sure Transparency is 0%.
- Remember to Save your map changes.



Step by Step Guide: Who Gets Evicted in Boston.

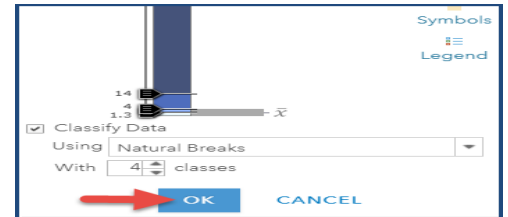
14. Next, click **Symbols** icon to display dialog that lets you change the color ramp.

- Create a **blue heat map** in which we select a color (in which **lower eviction rates appear in a light blue** and **higher eviction rates appear in a dark blue**).
- Make sure the color is set for **0% transparency**.
- Click **OK** to complete selection and close dialog.



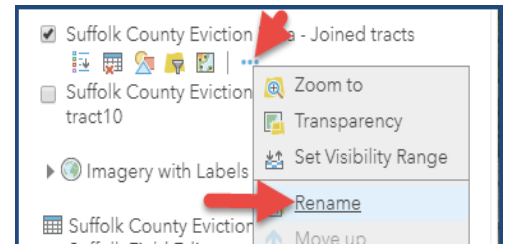
15. Now to confirm your style changes:

- Click **OK** at the bottom of the Change Style menu.
- Then click **DONE** to return to the Content list.
- Remember to **Save** your map changes.



16. Rename the Suffolk County Eviction Data – joined tracks layer **“Eviction Rate”**

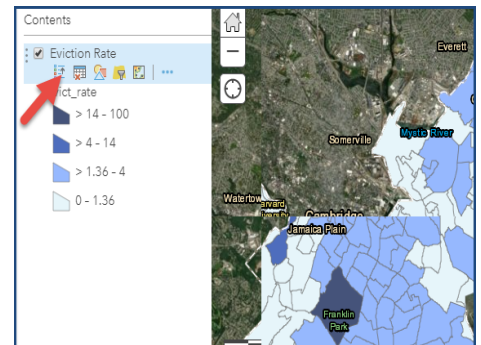
- Click the **... more options icon** and select **Rename**.
- Enter **Eviction Rate** as layer name and click **OK**.
- **Save** your map changes.



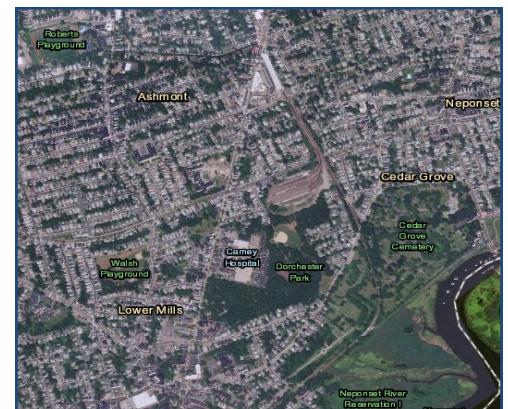
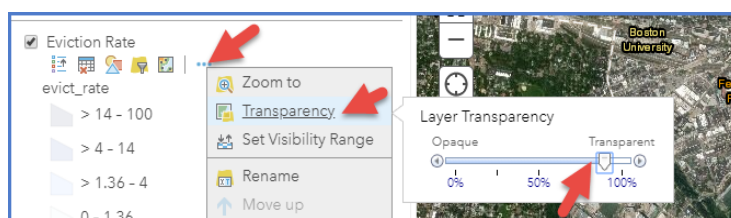
Zoom in to View Physical Differences of High and Low Eviction Rate Tracts

17. Click the **Legend** icon below the Eviction Rate layer to display the legend.

- Look at the map and evaluate patterns in the locations of low-, middle-, and high- rent neighborhoods.
- **Zoom into different census tracts** and consider amenities (e.g., medical centers, schools, green parks) and use of physical space (e.g., space between homes, houses vs. apartment buildings, medical centers, etc.).
- You will have to **temporarily adjust the transparency of the heatmap to a high percentage** so you can evaluate physical attributes of the neighborhoods.



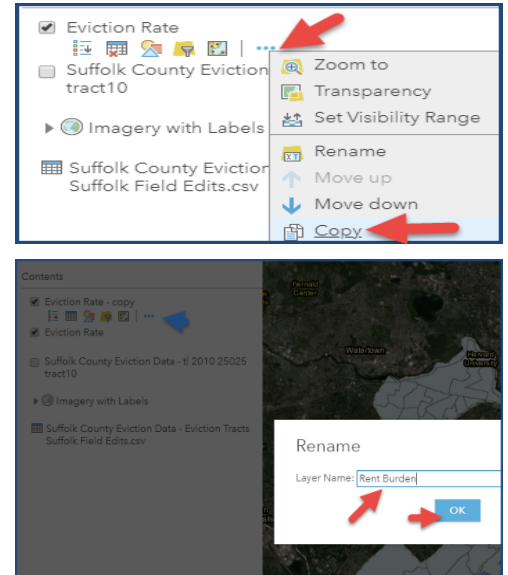
Hint: Click **...More Options** in Layer icons to adjust **Transparency**.



Part 2: Create second data Layer to compare Eviction Rates and Rent Burden

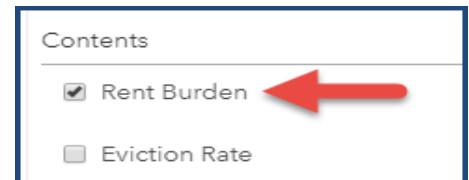
18. Click on the three dots below Eviction Rate layer.

- When a menu appears, click on **Copy**.
- Rename the layer you created, "**Rent Burden.**"
- Remember to **Save** your map changes.



19. Turn off the **Eviction Rate** layer and make sure the **Rent Burden** layer is on.

- Remember to **Save** your map changes.



20. Under the tract layer, click the third icon: **Change Style**.

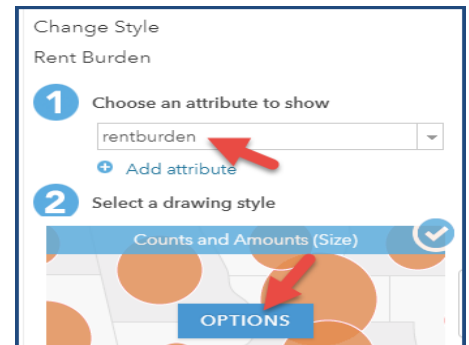
- The Change Style Dialog displays

21. Under **1 Choose an attribute to show**,

- Select **rentburden** from the drop-down menu.

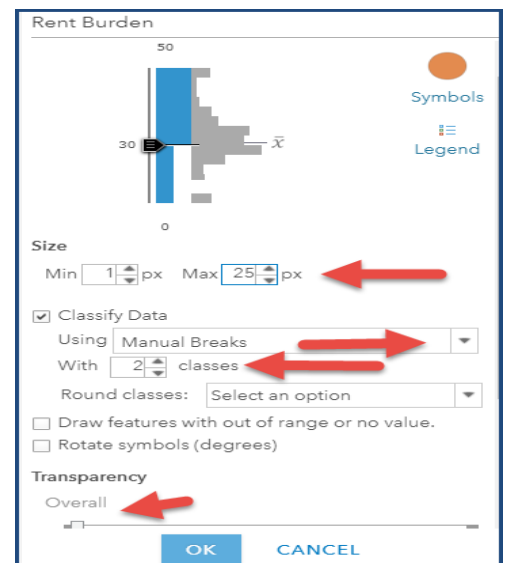
22. Under **2 Select a drawing style**,

- Select **Counts and Amounts (Size)** and click on **Options**



23. In the **Divided By** option, select **none**.

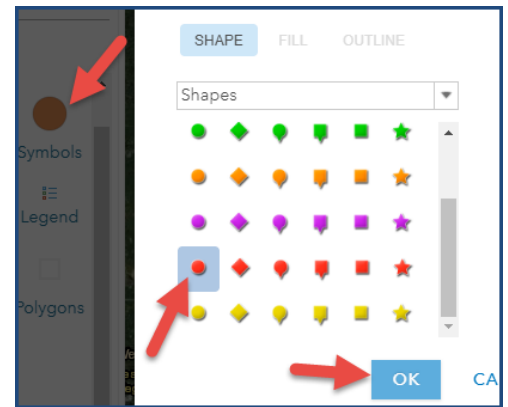
- Under **Classify Data**, select **Manual Breaks**.
- Under **With ___ classes**, select **2**.
- On the scale, make **2 categories: 0-30, >30-50**.
- **Note:** We are interested in comparing neighborhoods with less than 30 percent rent burden to those with a rent burden above 30 percent.
- Under **Size**, select Specify Size and choose "**Min 1 px**" and "**Max 25 px.**"
- Make sure transparency is set to **0**.
- Remember to **Save** your map changes.



Step by Step Guide: Who Gets Evicted in Boston.

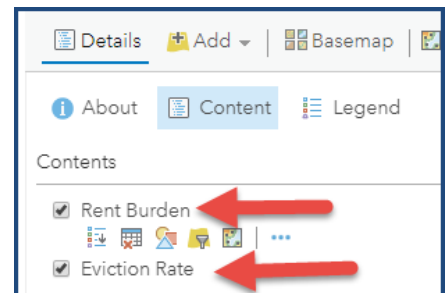
24. Click the **Symbols** image in the Change Style menu.

- Select the **red circle** symbol.
- Click the **OK** button to accept symbol style change. **Note:** Since the min px is so small, only those tracts with high rent burden will appear on the map.
- Click **OK** to close the color dialog.
- Click the **OK** button to accept symbol style change.
- Click **Done** to close the Change Style menu.
- **Save** your map changes.

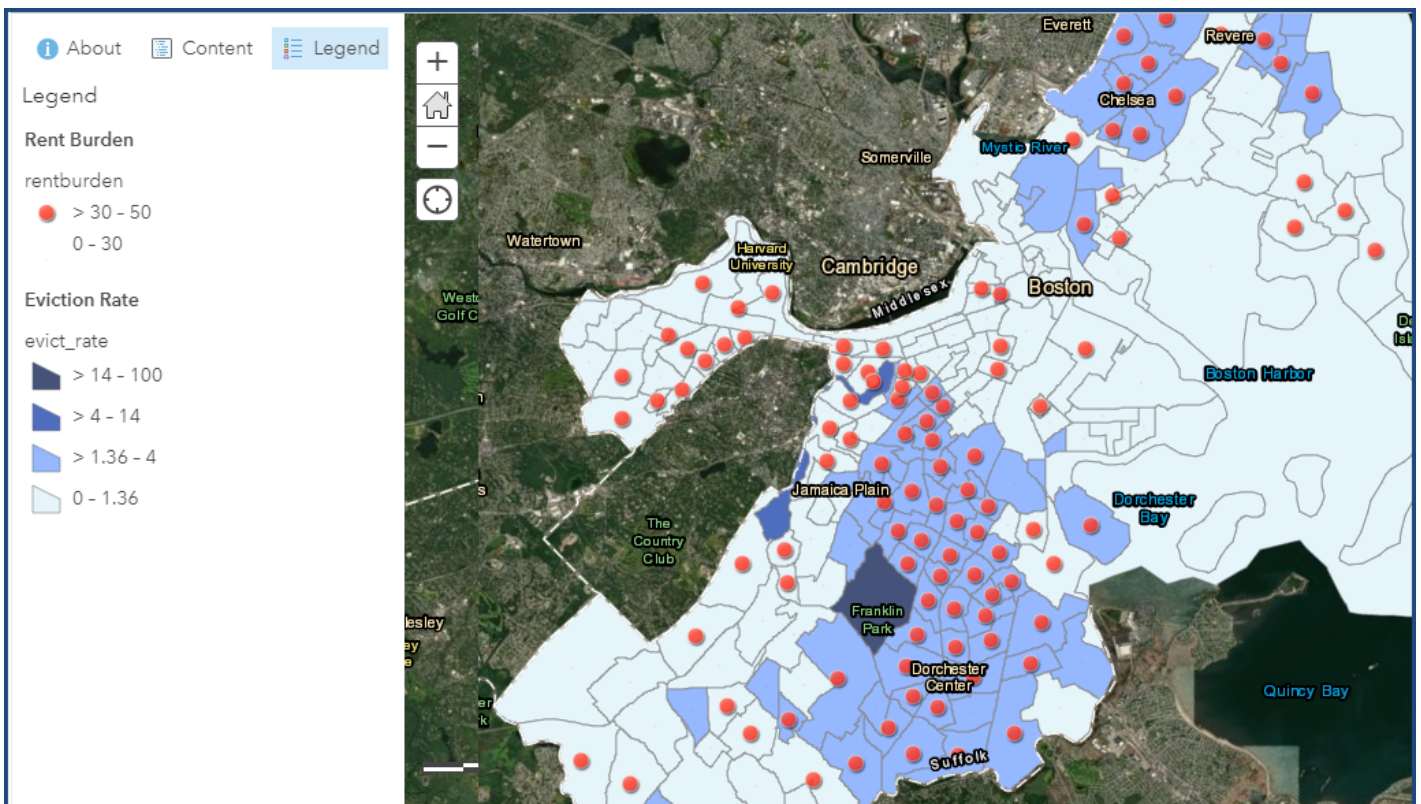


25. Turn on the **Eviction Rate** layer.

- Make sure the **Rent Burden** layer is on top of the **Eviction Rate** layer.



26. Click on the **Legend** icon below Basemap.



Variable Definitions

Population - Total population

poverty-rate - % of the population with income in the past 12 months below the poverty level

pct-renter-occupied - % of occupied housing units that are renter-occupied

median-gross-rent - Median gross rent

median-household-income - Median household income

median-property-value - Median property value

rent-burden - Median gross rent as a percentage of household income, max is 50% representing $\geq 50\%$

pct-white - % population that is White alone and not Hispanic or Latino

pct-af-am - % population that is Black or African American alone and not Hispanic or Latino

pct-hispanic - % population that is of Hispanic or Latino origin

pct-am-ind - % population that is American Indian and Alaska Native alone and not Hispanic or Latino

pct-asian - % population that is Asian alone and not Hispanic or Latino

pct-other - % population that is other race alone and not Hispanic or Latino

pct-multiple - % population that is two or more races and not Hispanic or Latino

renter-occupied-households - count of renter-occupied households

evictions - Number of eviction judgments in which renters were ordered to leave in a given area and year . - Only counts a single address which received an eviction judgment per year

eviction-filings - All eviction cases filed in an area, including multiple cases filed against the same address in the same year

eviction-rate - Ratio of the number of renter-occupied households in an area that received an eviction judgement in which renters were ordered to leave. - Only counts a single address per year which received an eviction judgment

eviction-filing-rate - Ratio of the number of evictions filed in an area over the number of renter-occupied homes in that area. - Counts all eviction cases filed in an area, including multiple cases filed against the same address in the same year