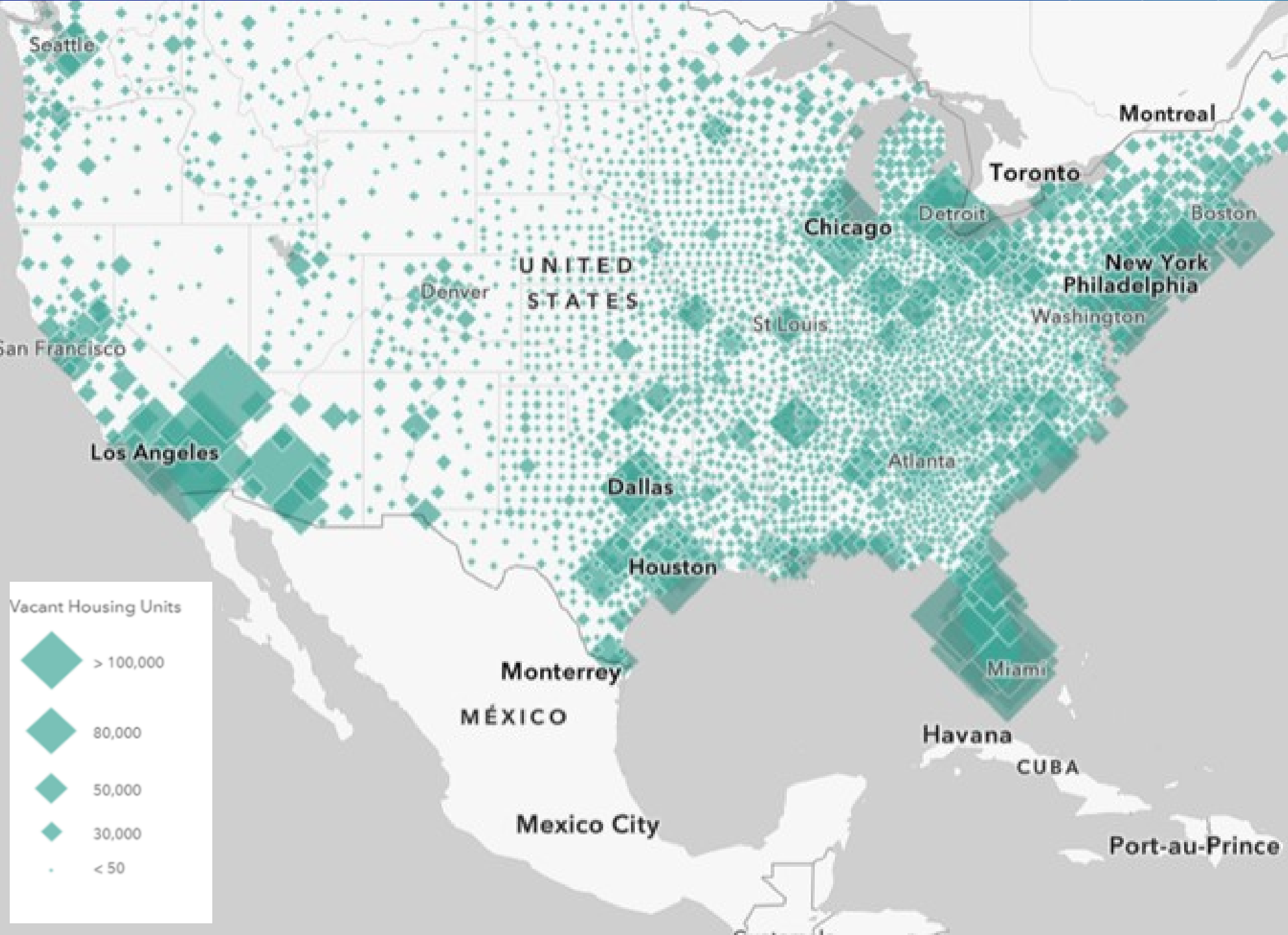


Visualizing and Mapping ACS Data

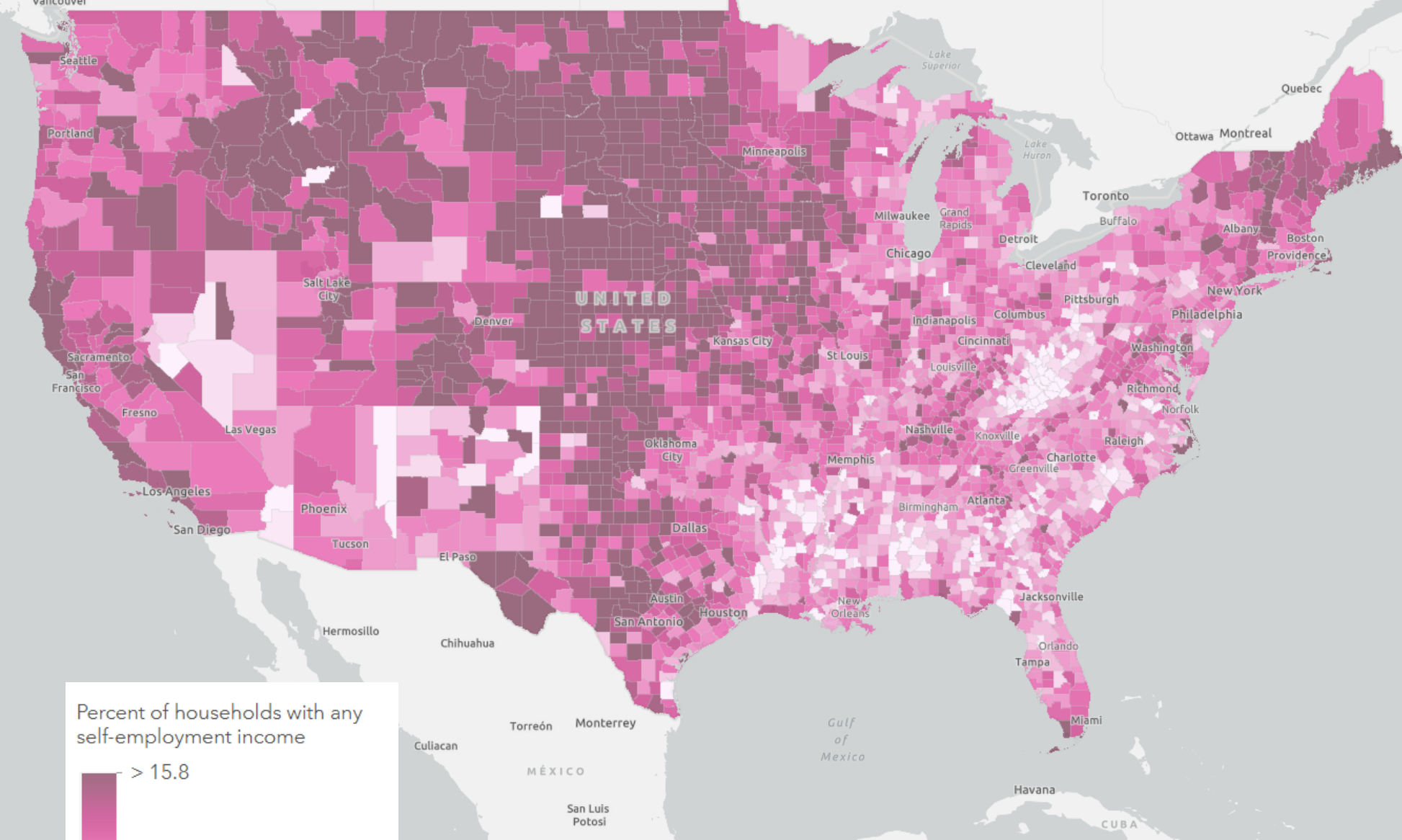
Diana Lavery

Living Atlas Policy Maps

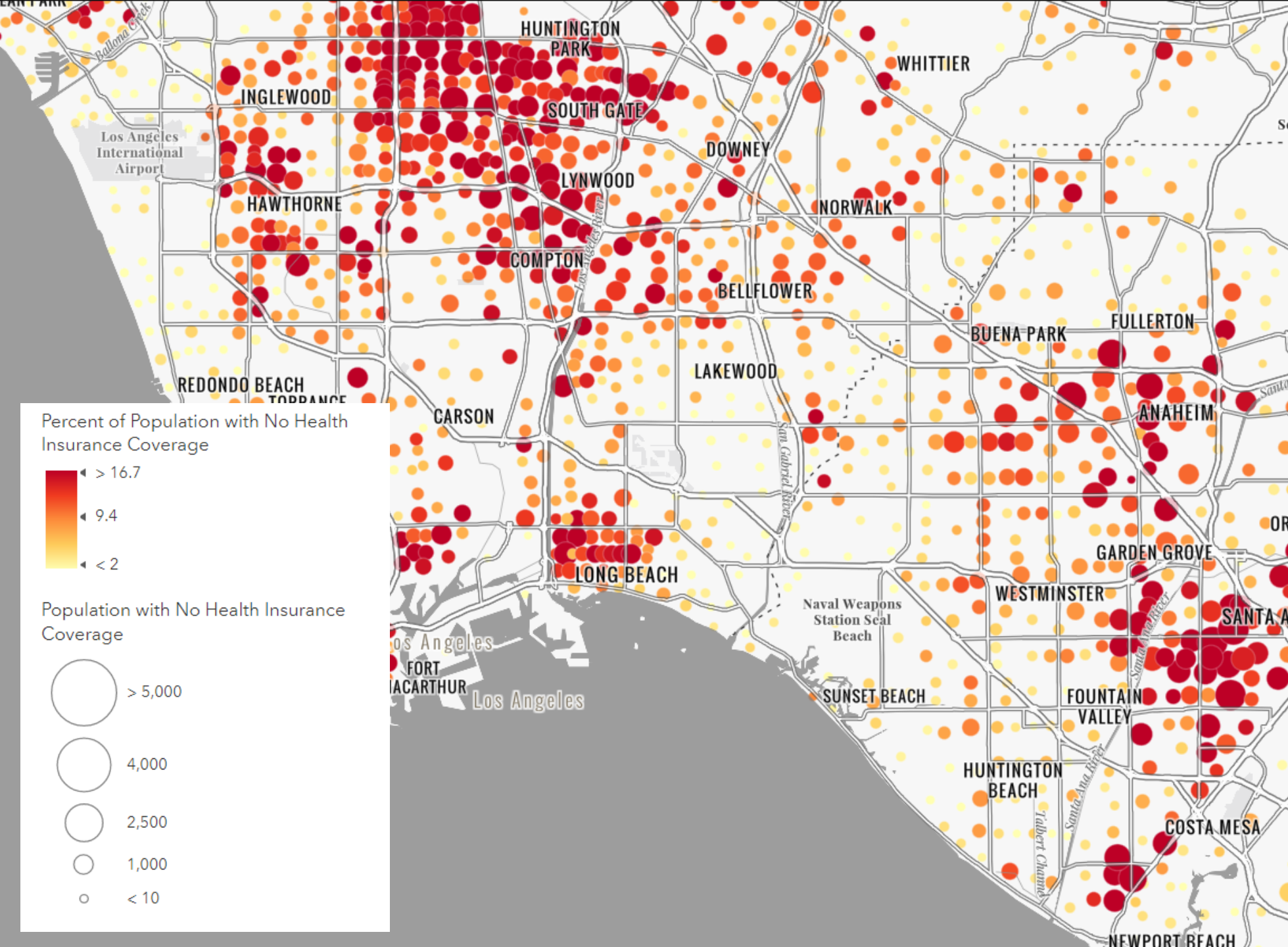
dlavery@esri.com



Map counts
(integers)
using size

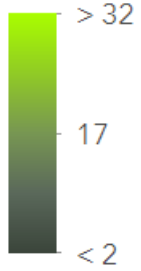


Map percentages or rates using color

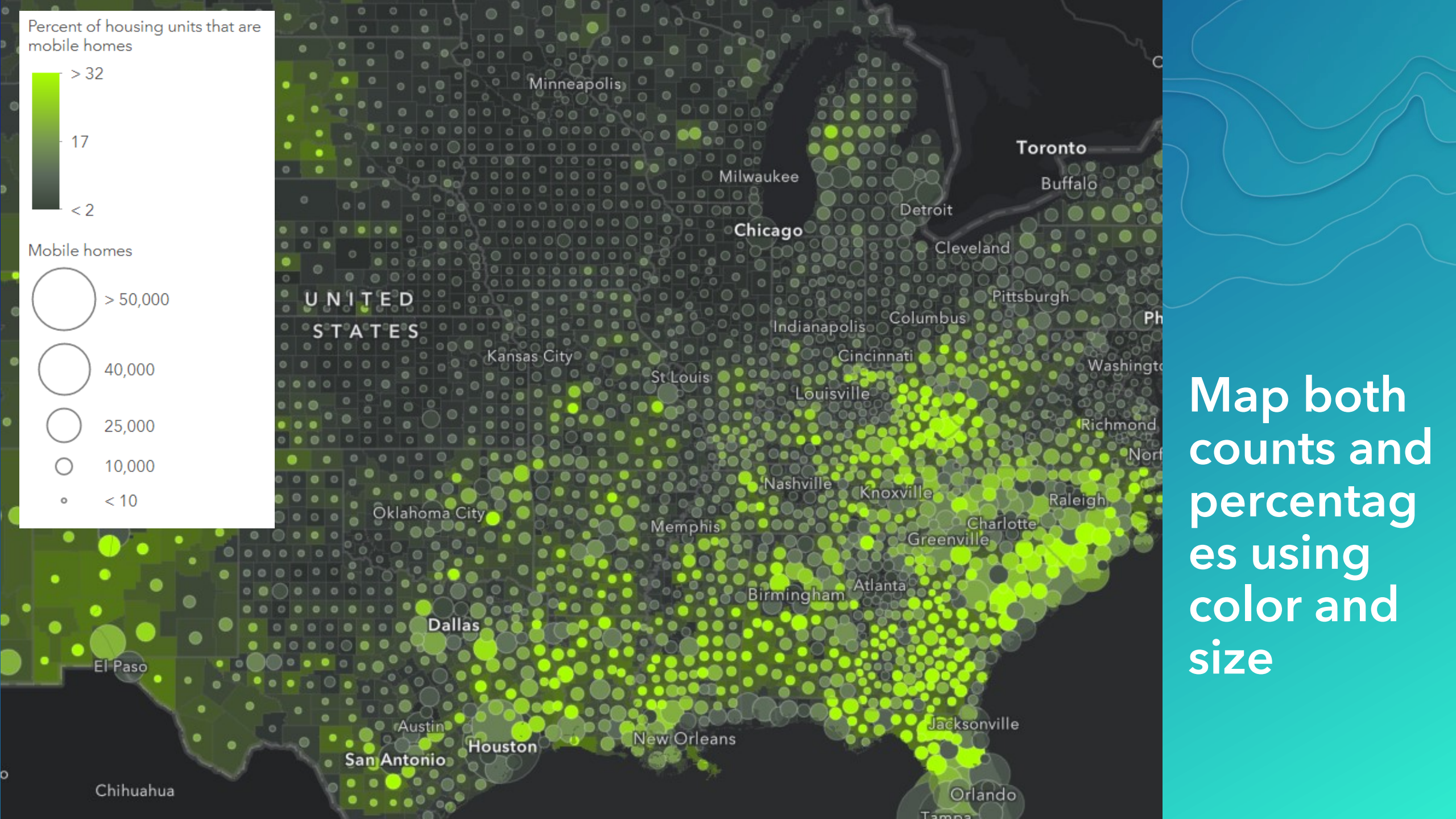


Map both counts and percentages using color and size

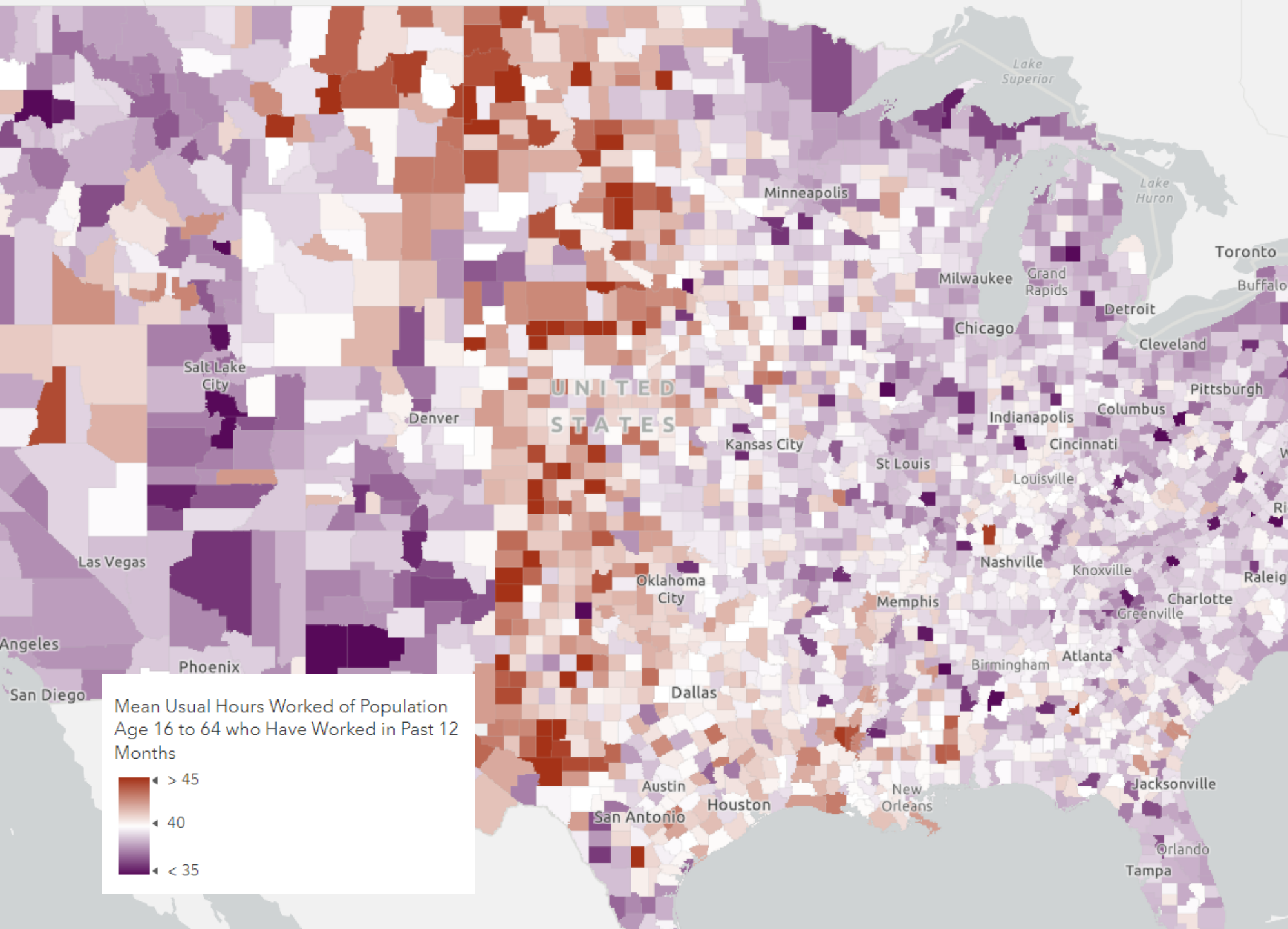
Percent of housing units that are mobile homes



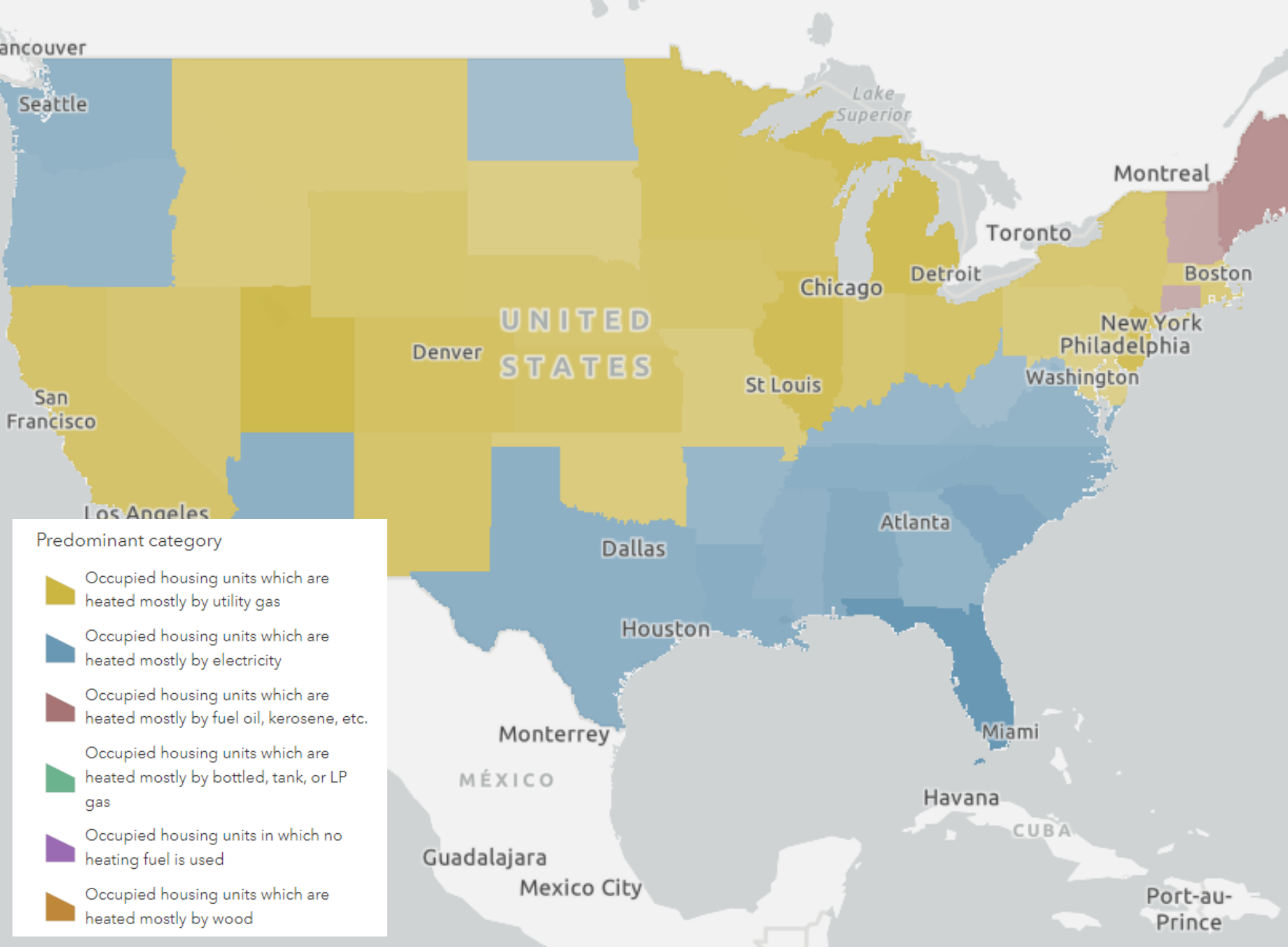
Mobile homes



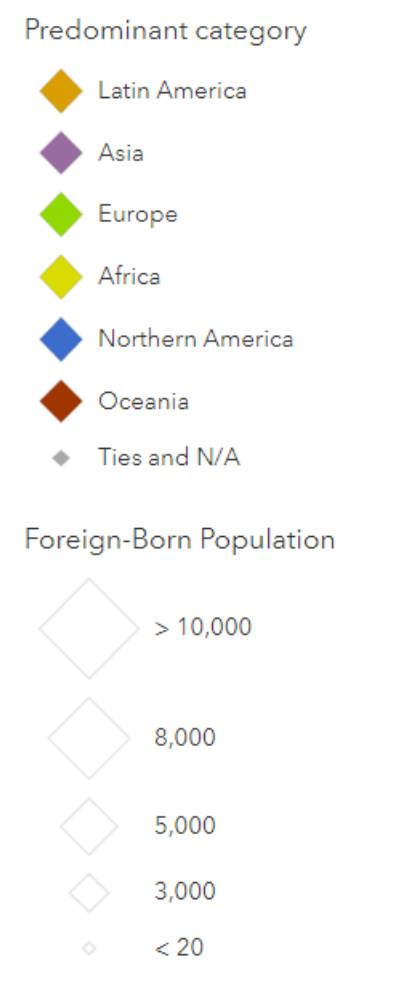
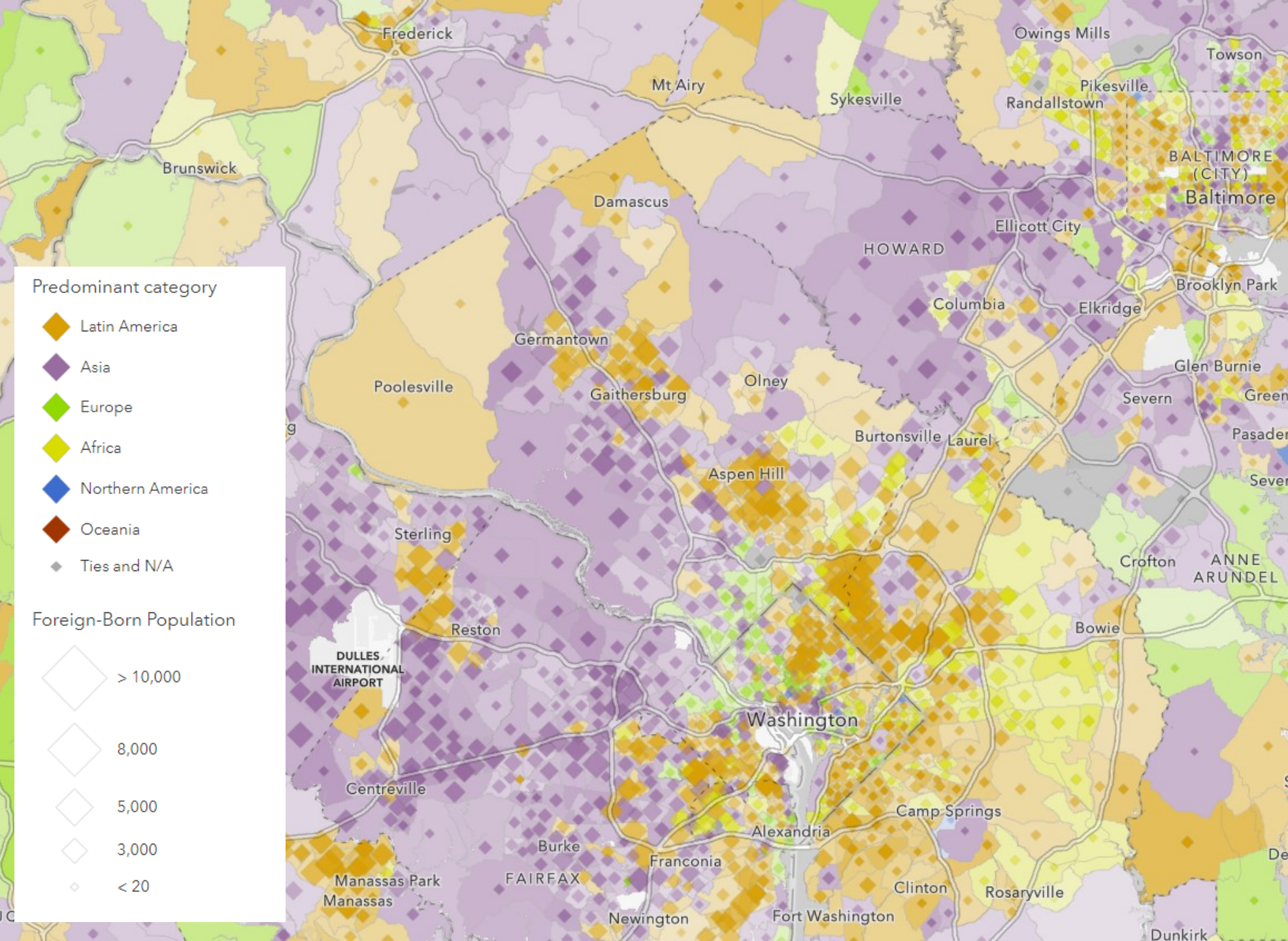
Map both counts and percentages using color and size



Anchor your map on a critical value using *above-and-below* color



Map many related attributes together using predominance



Map many related attributes together using predominance and size

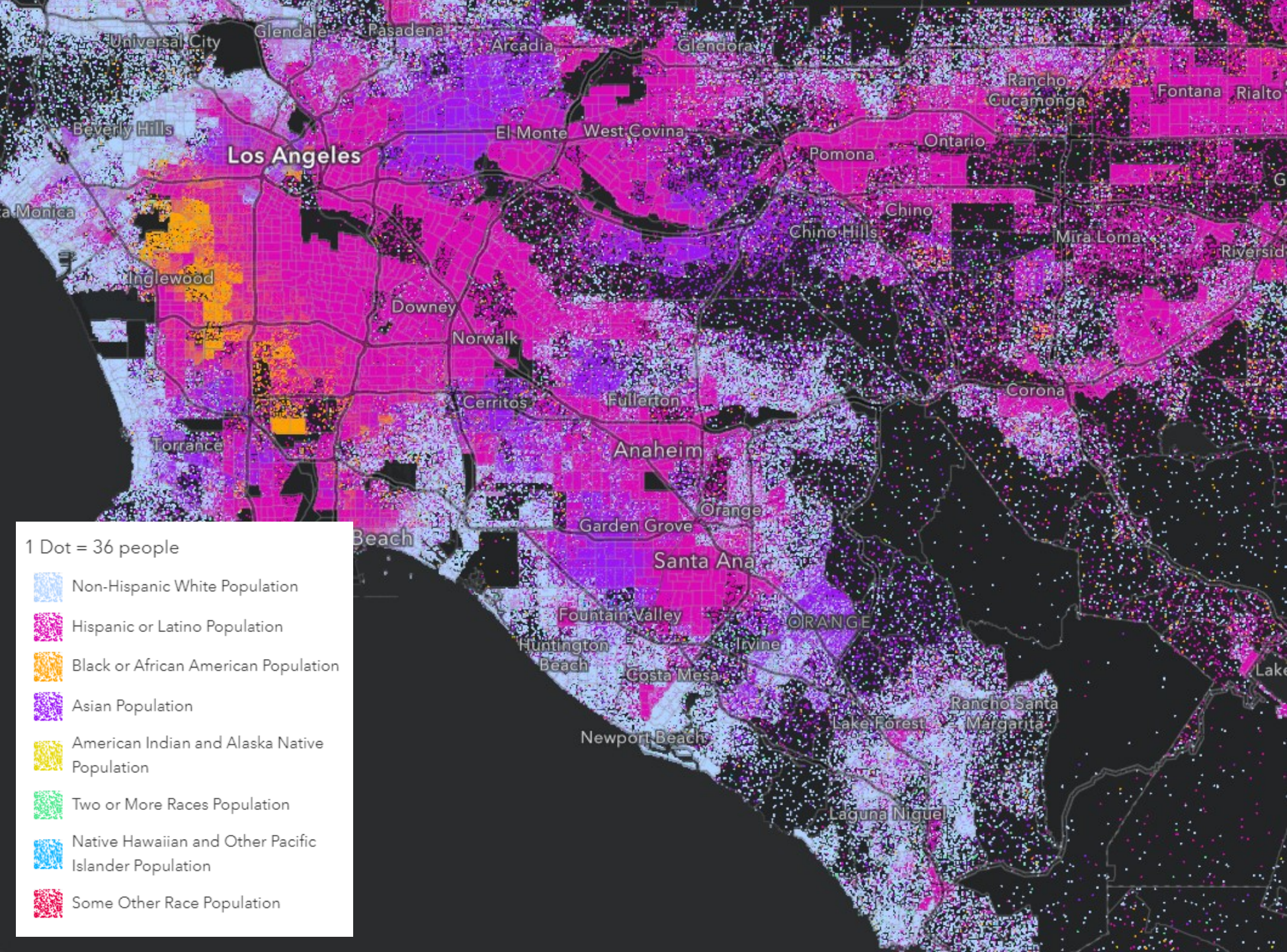
Predominant category

- Built 1939 or earlier
- Built 1940 to 1949
- Built 1950 to 1959
- Built 1960 to 1969
- Built 1970 to 1979
- Built 1980 to 1989
- Built 1990 to 1999
- Built 2000 to 2009
- Built 2010 to 2013
- Built 2014 or later
- Ties between groups

Predominant age group of women who had a birth in the past 12 months

- Women age 15 to 19
- Women age 20 to 24
- Women age 25 to 29
- Women age 30 to 34
- Women age 35 to 39
- Women age 40 to 44
- Women age 45 to 50
- Ties between age groups

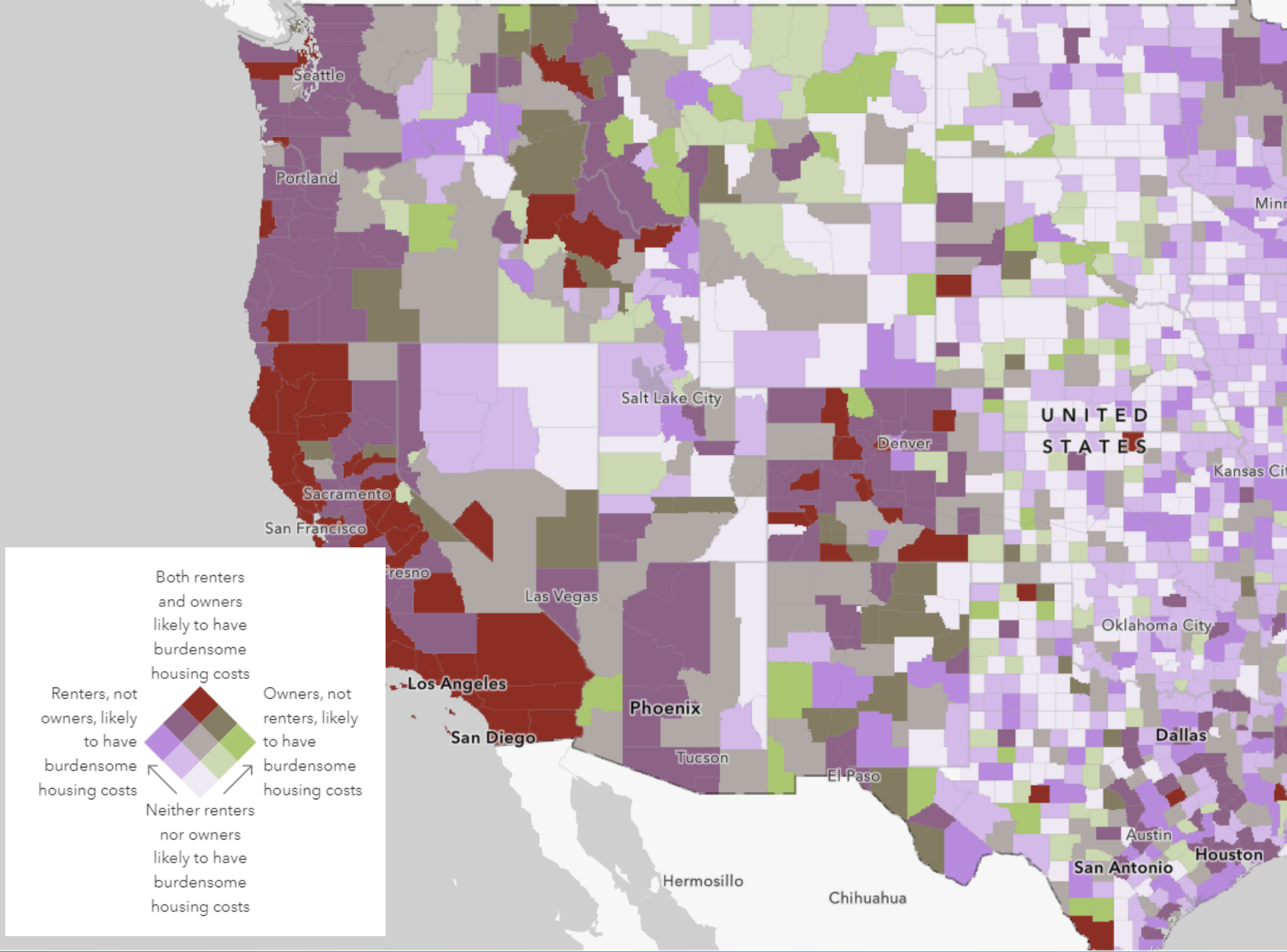
**Use sequential
predominance
when
categories
have an order
to them**



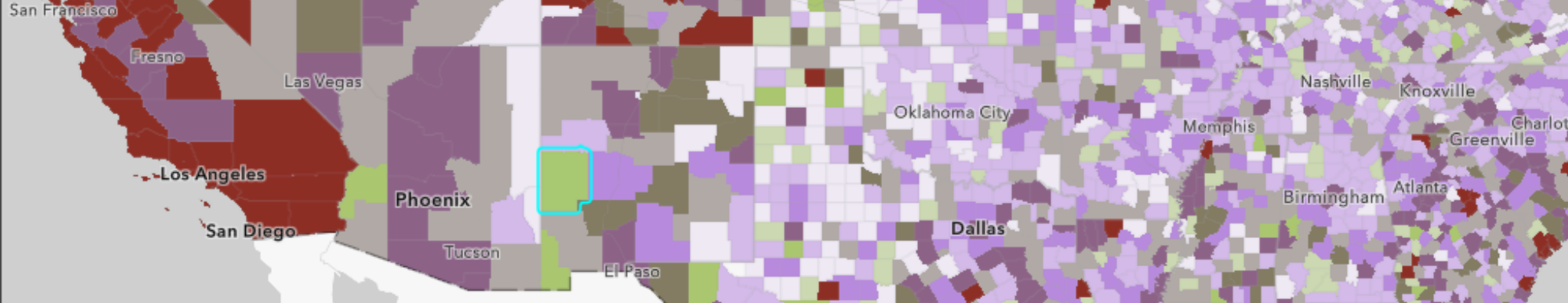
1 Dot = 36 people

- Non-Hispanic White Population
- Hispanic or Latino Population
- Black or African American Population
- Asian Population
- American Indian and Alaska Native Population
- Two or More Races Population
- Native Hawaiian and Other Pacific Islander Population
- Some Other Race Population

Dot Density shows the full distribution better than predominance



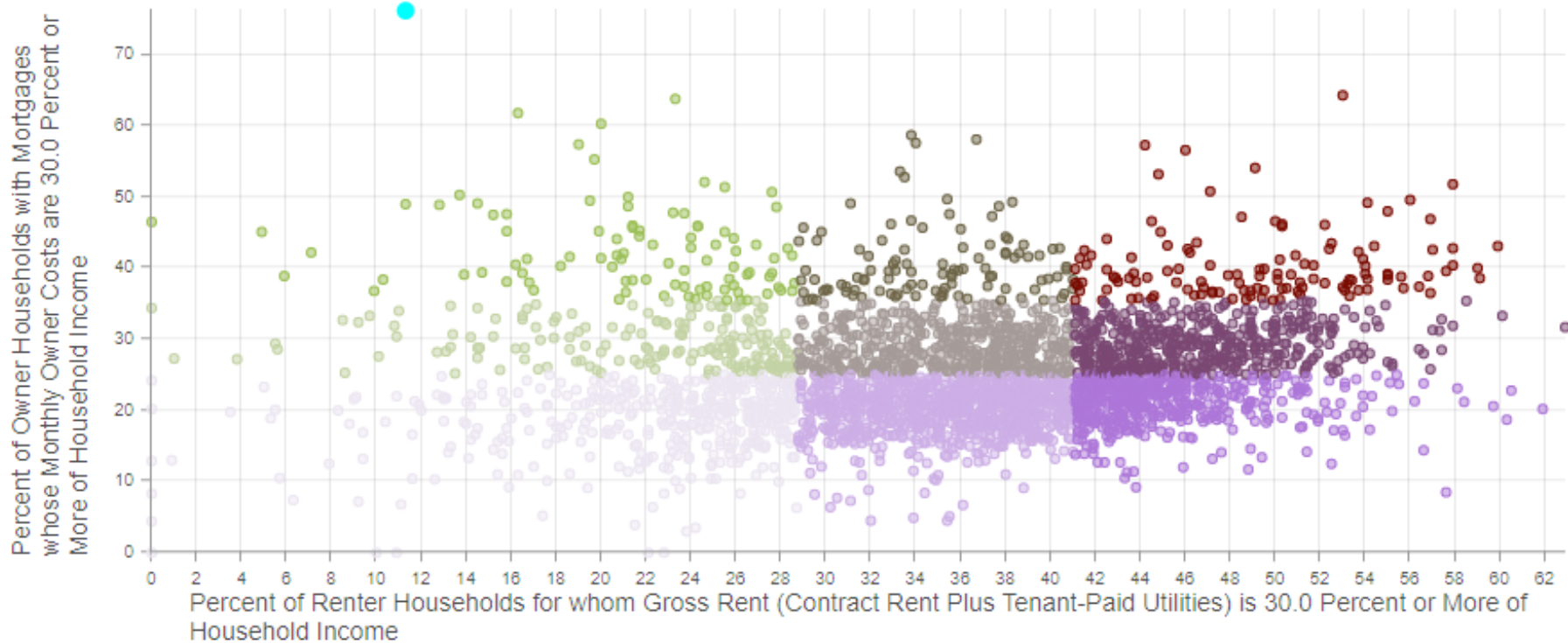
Use relationship mapping when comparing two attributes



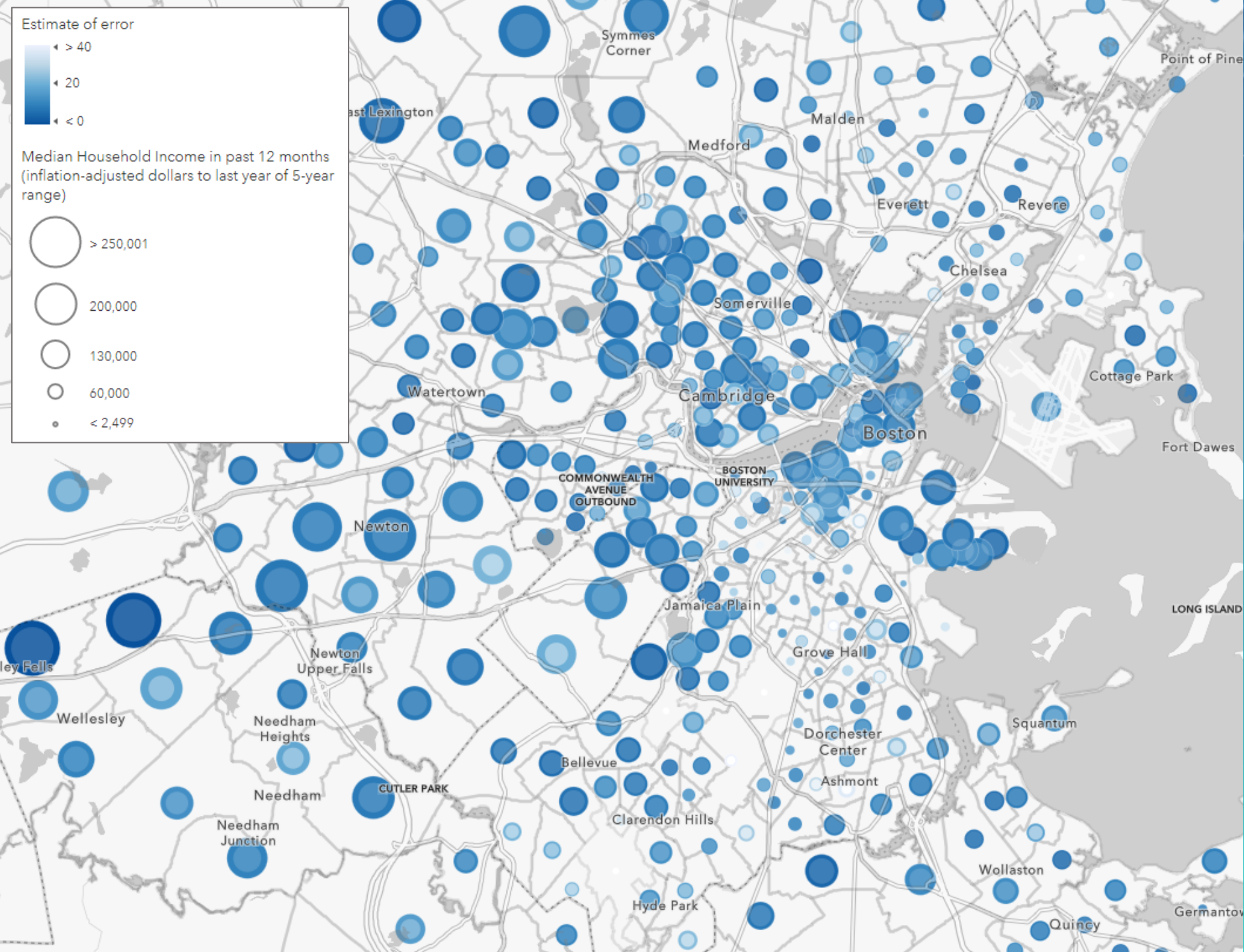
Scatter plot



Percent of Renter Households for whom Gross Rent (Contract Rent Plus Tenant-Paid Utilities) is 30.0 Percent or More of Household Income and Percent of Owner Households with Mortgages whose Monthly Owner Costs are 30.0 Percent or More of Household Income



Combine charts with maps to visualize in multiple ways



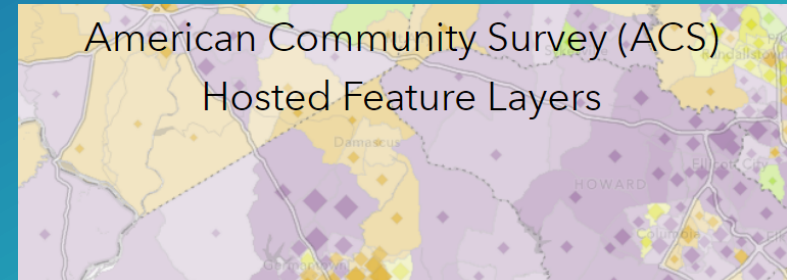
To show the full range, map both upper and lower bounds to create a donut symbol

Learn about your community using Census ACS layers in Living Atlas

Map valuable demographic information such as housing, population, income, and more with Census American Community Survey (ACS) content from Living Atlas.

- Mapping American Community Survey data just got easier**
What is ACS, why use ACS, and how can it be accessed in ArcGIS Living Atlas?
10 min
Article
English Only
- Easily access and use American Community Survey data**
Learn more about Census ACS layers in Living Atlas and how to use them in your GIS workflow.
10 min
Story
- Add Census data to any map with Living Atlas**
Easily add Census decennial and ACS content to your maps, apps, and stories.
10 min
Article
English Only
- Make a map about your community in four easy steps**
Quickly find and use American Community Survey data to create a map about your area of interest in ArcGIS Online.
10 min
Article
English Only
- Make several nuanced policy maps from one ArcGIS Living Atlas layer**
Turn American Community Survey (ACS) data into a policy-driven map with these examples.
15 min
Article
English Only
- Reveal demographic trends over time with American Community Survey layers in Living Atlas**
Compare patterns between non-overlapping ACS vintages to see change over time.

<https://acs-hosted-feature-layers-faq-esri.hub.arcgis.com/>



"The American Community Survey (ACS) is an ongoing survey that provides vital information on a yearly basis about our nation and its people. Information from the survey generates data that help determine how more than \$675 billion in federal and state funds are distributed each year. Through the ACS, we know more about jobs and occupations, educational attainment, veterans, whether people own or rent their homes, and other topics. Public officials, planners, and entrepreneurs use this information to assess the past and plan for the future." - U.S. Census Bureau

ArcGIS Living Atlas contains layers of the most current ACS 5-year estimates

- The layers are updated annually to reflect the most current data values and geographical boundaries.
- The layers contain data for state, county, and census tract geographies.
- Each layer contains single or multiple ACS tables, grouped by topic. Each topic is available as boundaries and centroids.
- Many layers include pre-calculated fields such as sums and percentages.
- Coastlines and water features are clipped out for your cartographic needs.
- Field aliases and long descriptions bring metadata directly into the user experience.

Frequently Asked Questions about the ACS layers available within ArcGIS Living Atlas:

Are these ACS feature layers free to use?

How did you get such beautiful coastlines?

Why is block group not included?

How are currency values expressed?

<https://learn.arcgis.com/en/paths/census-acs-living-atlas/>



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