

Where to Live Using ArcGIS

THE GOLDEN STATE VS. THE LAST FRONTIER



Group 1

Benxin Chen, Wyatt Kelch, Victoria Steinnecker, and Tyler Tornese

Our Interests

- ▶ Something off the beaten path
- ▶ Value privacy and natural beauty
- ▶ Wanted to be near a body of water

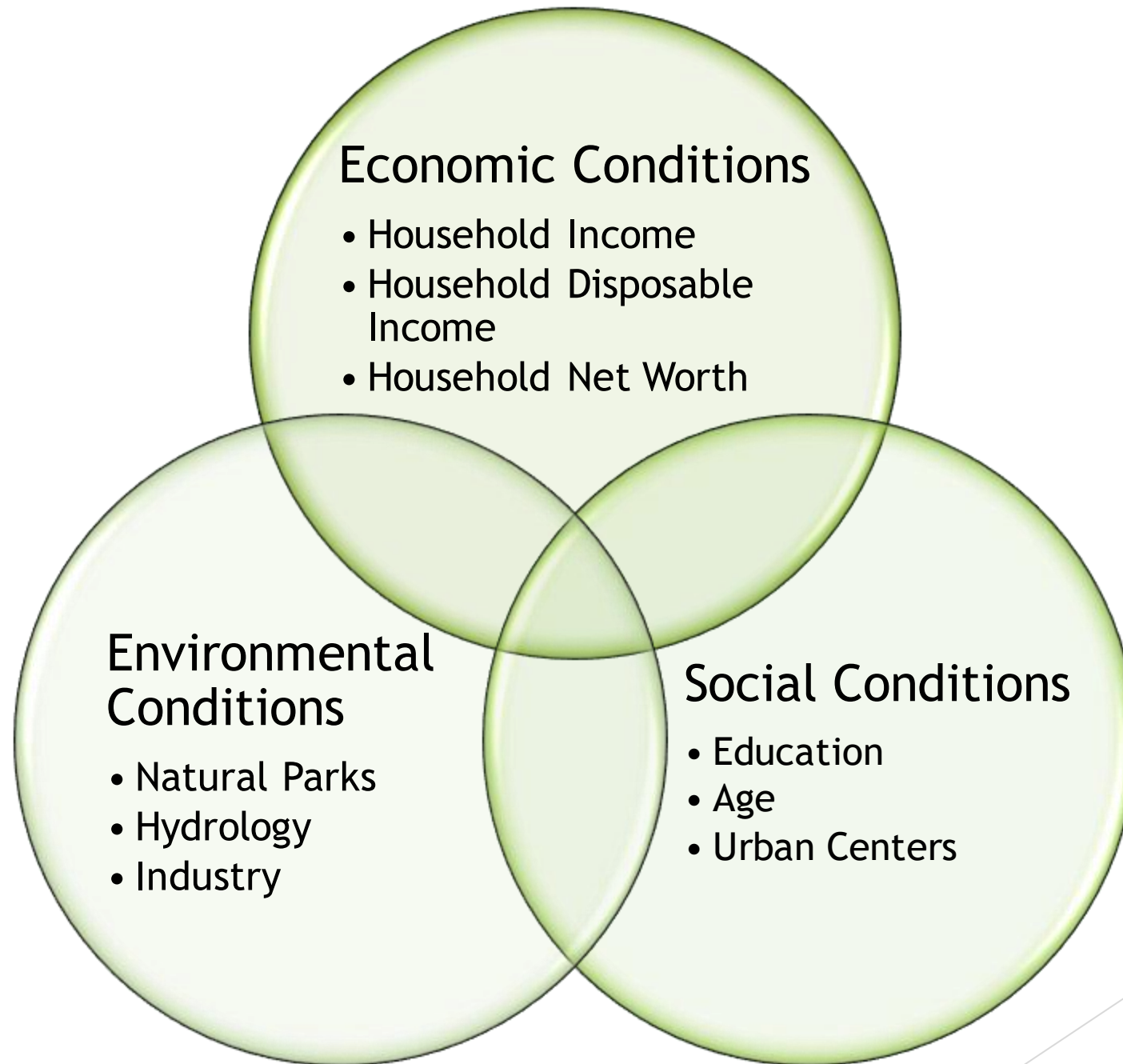


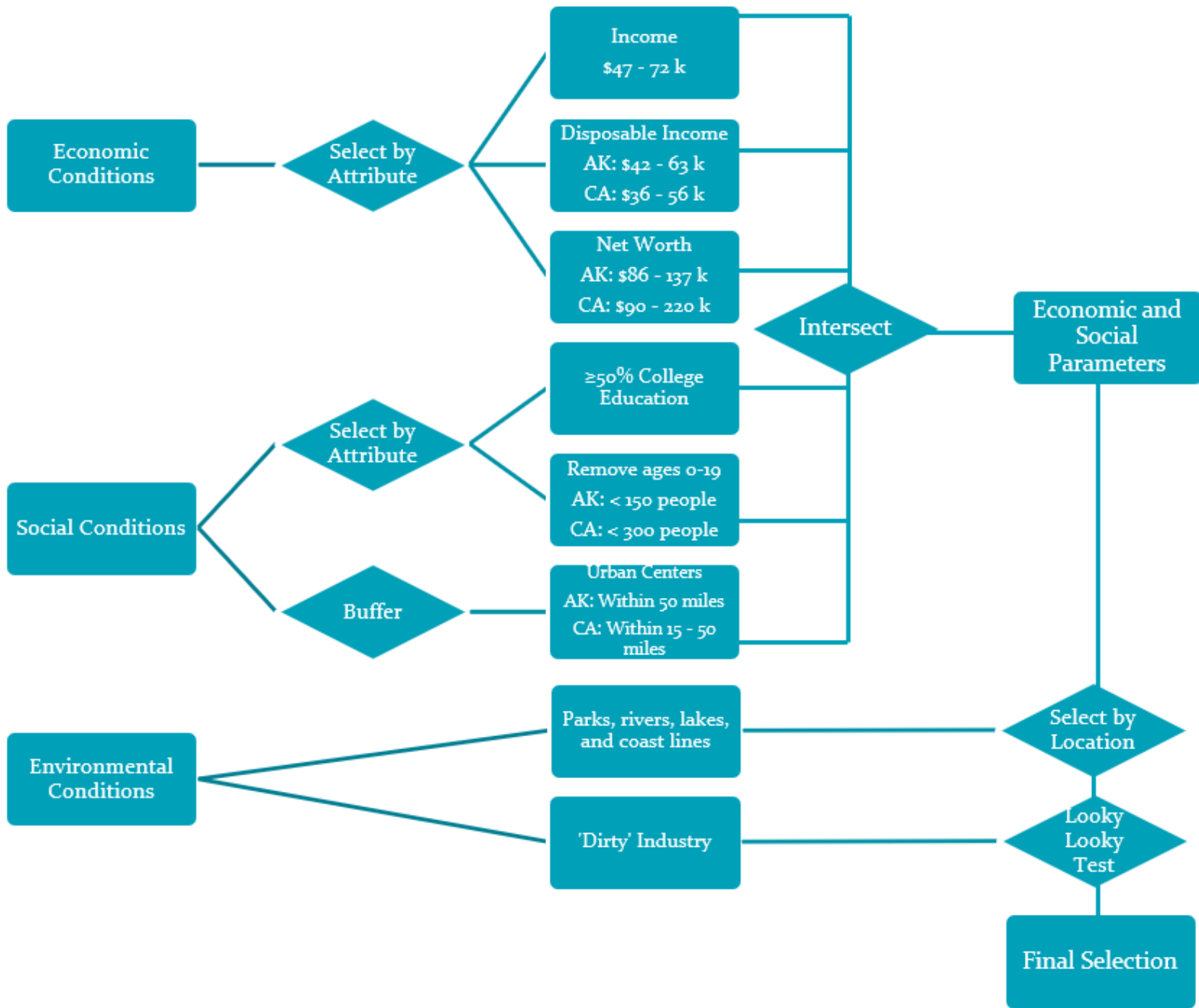
California and Alaska

▶ Decided to analyze California and Alaska

- ▶ Large states = more land available
- ▶ Expansive state and national parks
- ▶ Long coast lines
- ▶ Interested to assess two states with differing population/social dynamics









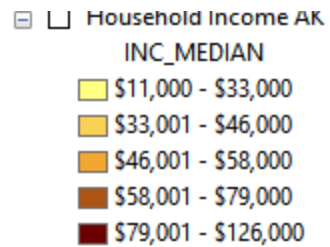
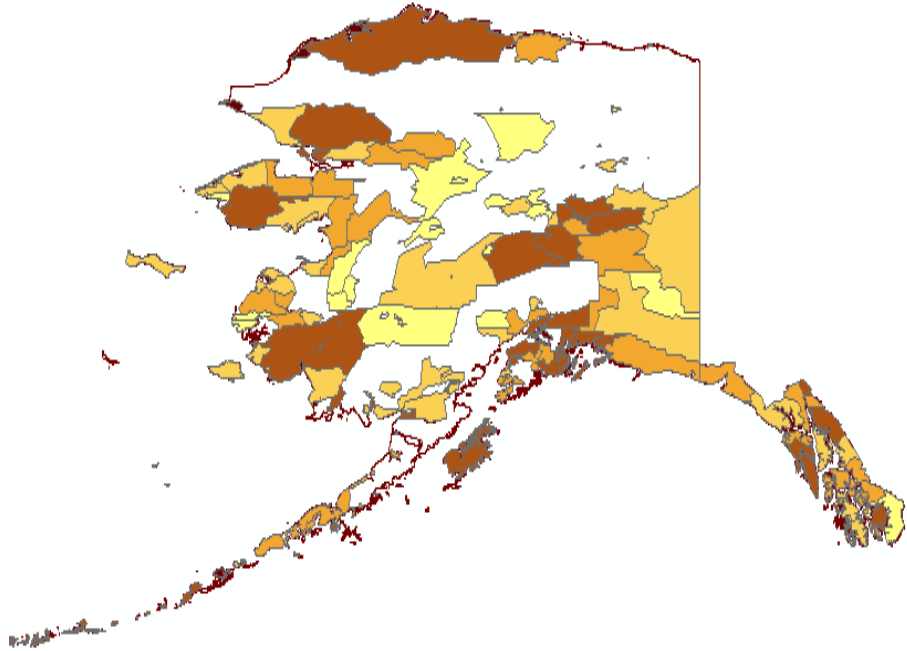
Economic Conditions

Economic parameters differed some between Alaska and California

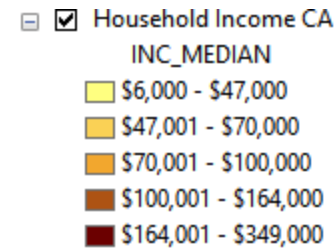
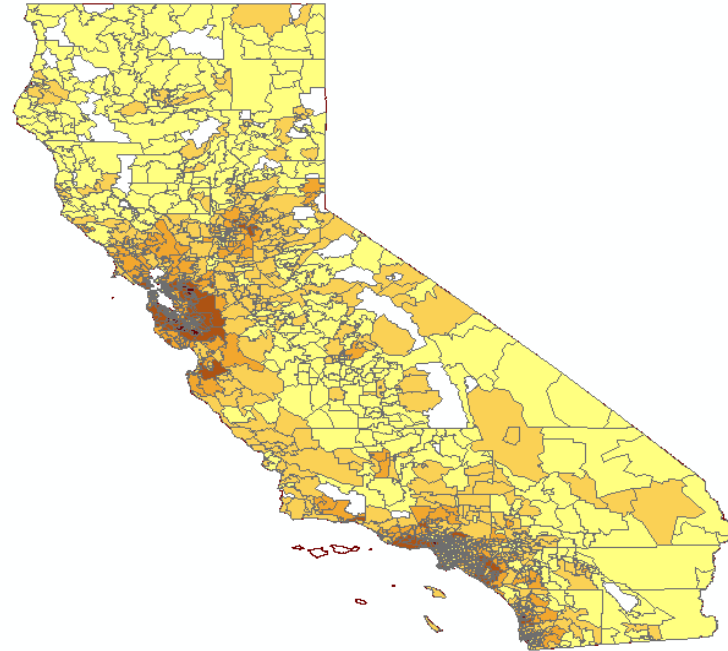
- ▶ Household Income
 - ▶ \$47,000 to \$72,000
- ▶ Household disposable Income
 - ▶ Alaska: \$42,000 to \$63,000
 - ▶ California: \$36,000 to \$56,000
- ▶ Household net worth
 - ▶ Alaska: \$86,000 to \$137,000
 - ▶ California: \$90,000 to \$220,000

Household Income

Alaska

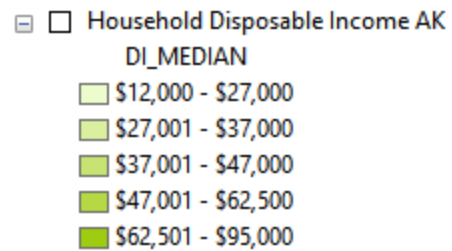
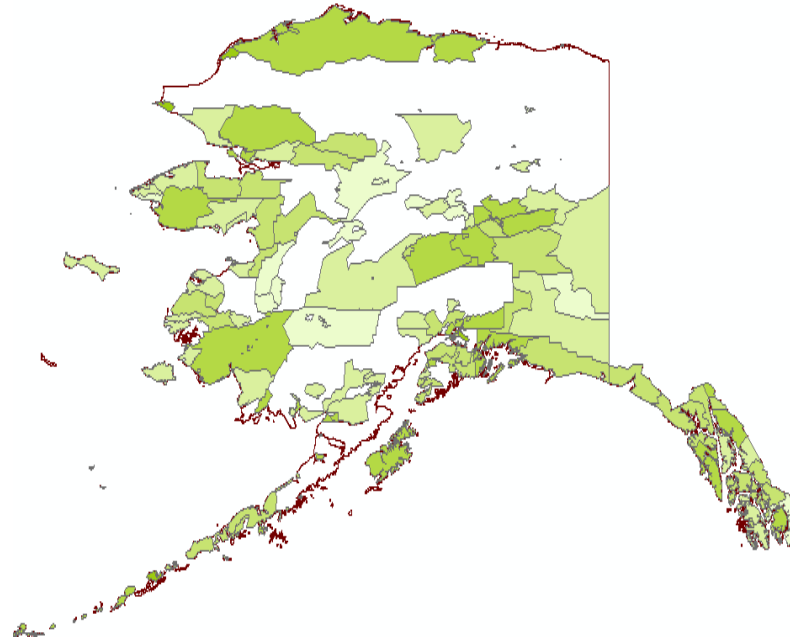


California

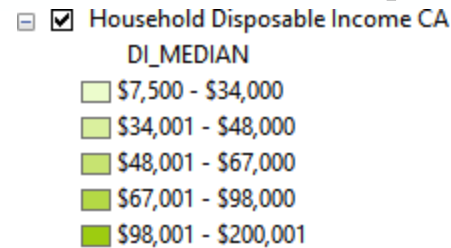
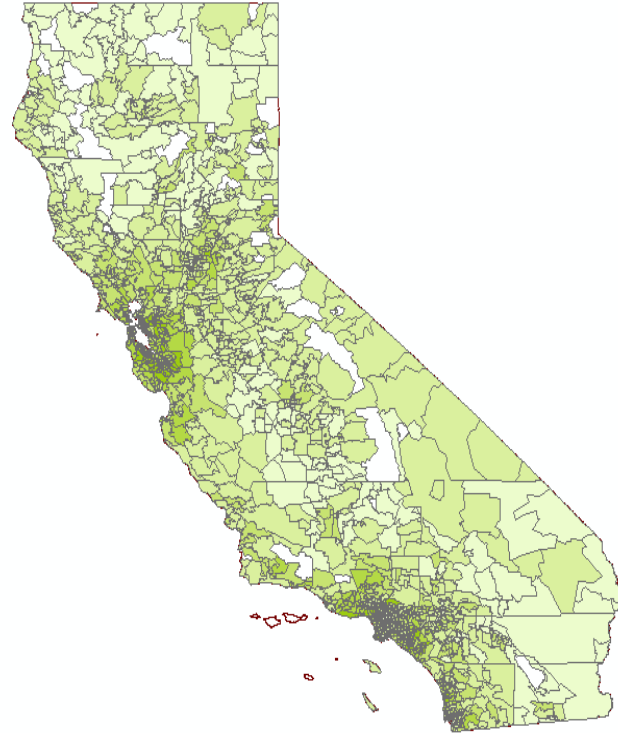


Household Disposable Income

Alaska

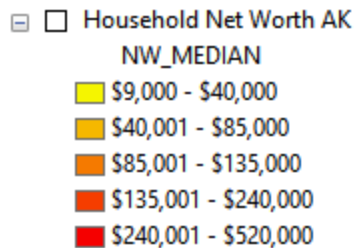
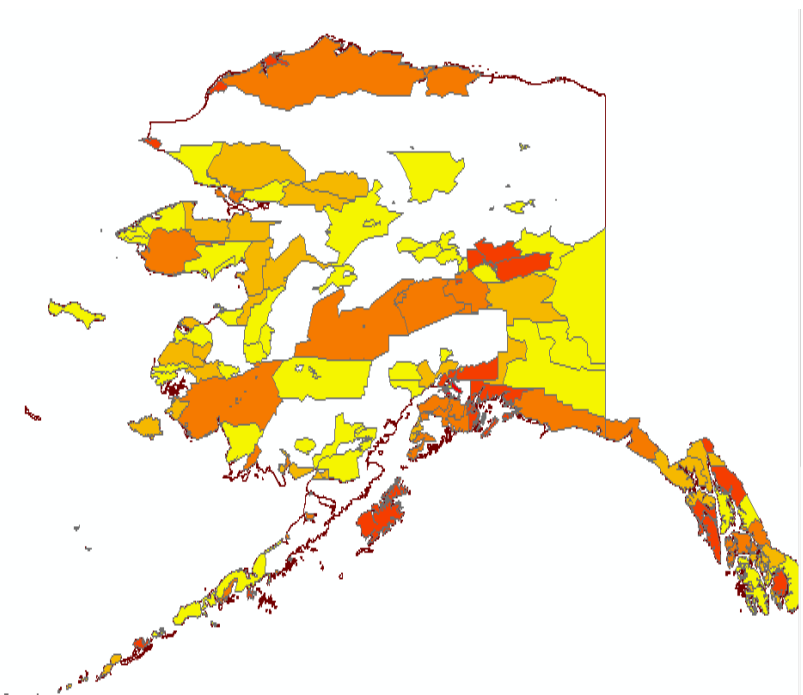


California

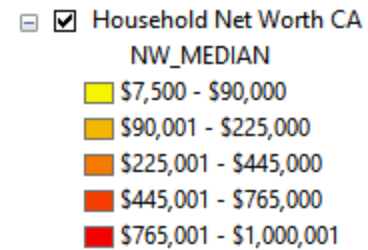
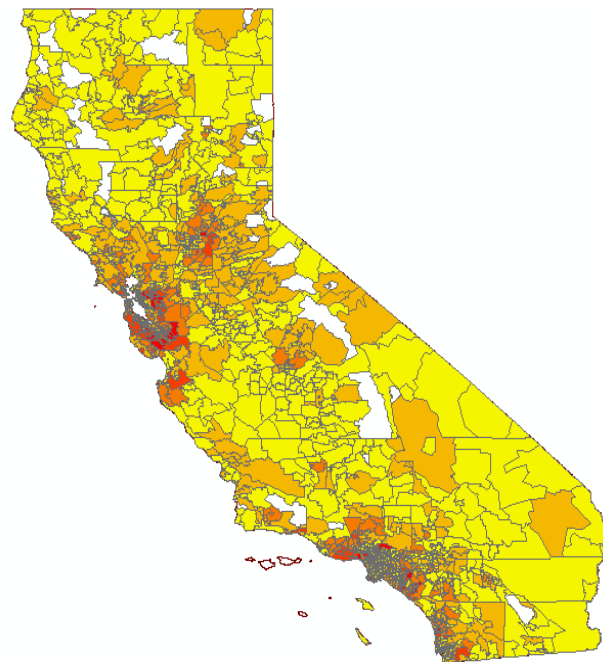


Household Net Worth

Alaska



California



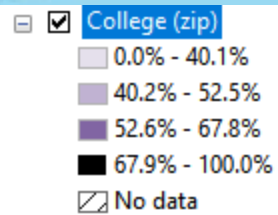
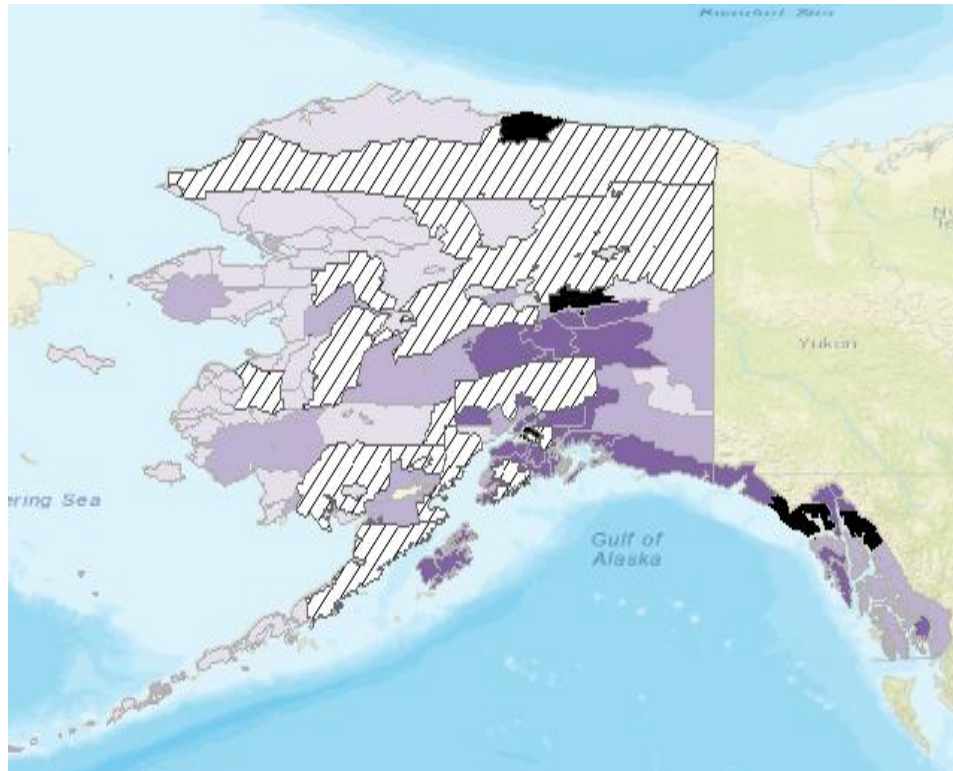
Social Conditions

- ▶ Education
 - ▶ $\geq 50\%$ college graduates
- ▶ Age (fewer than # age 0-19 yo)
 - ▶ Alaska: 150 people
 - ▶ California: 300 people
- ▶ Distance from urban centers
 - ▶ Alaska: Within 50 miles
 - ▶ California: Between 15 and 50 miles

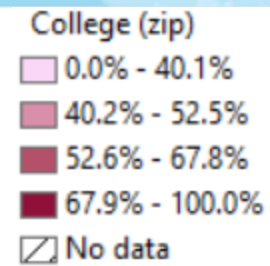
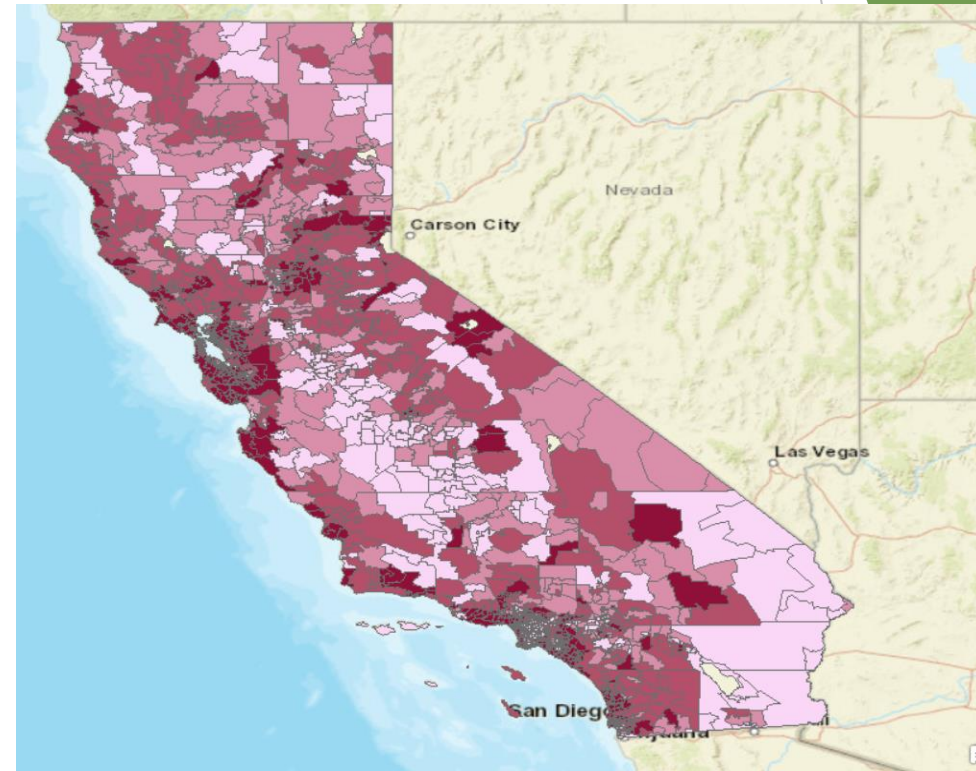


Education Level (College Graduates)

Alaska



California





- ▶ Zip code with fewer than 150 people between the ages of 0 and 19

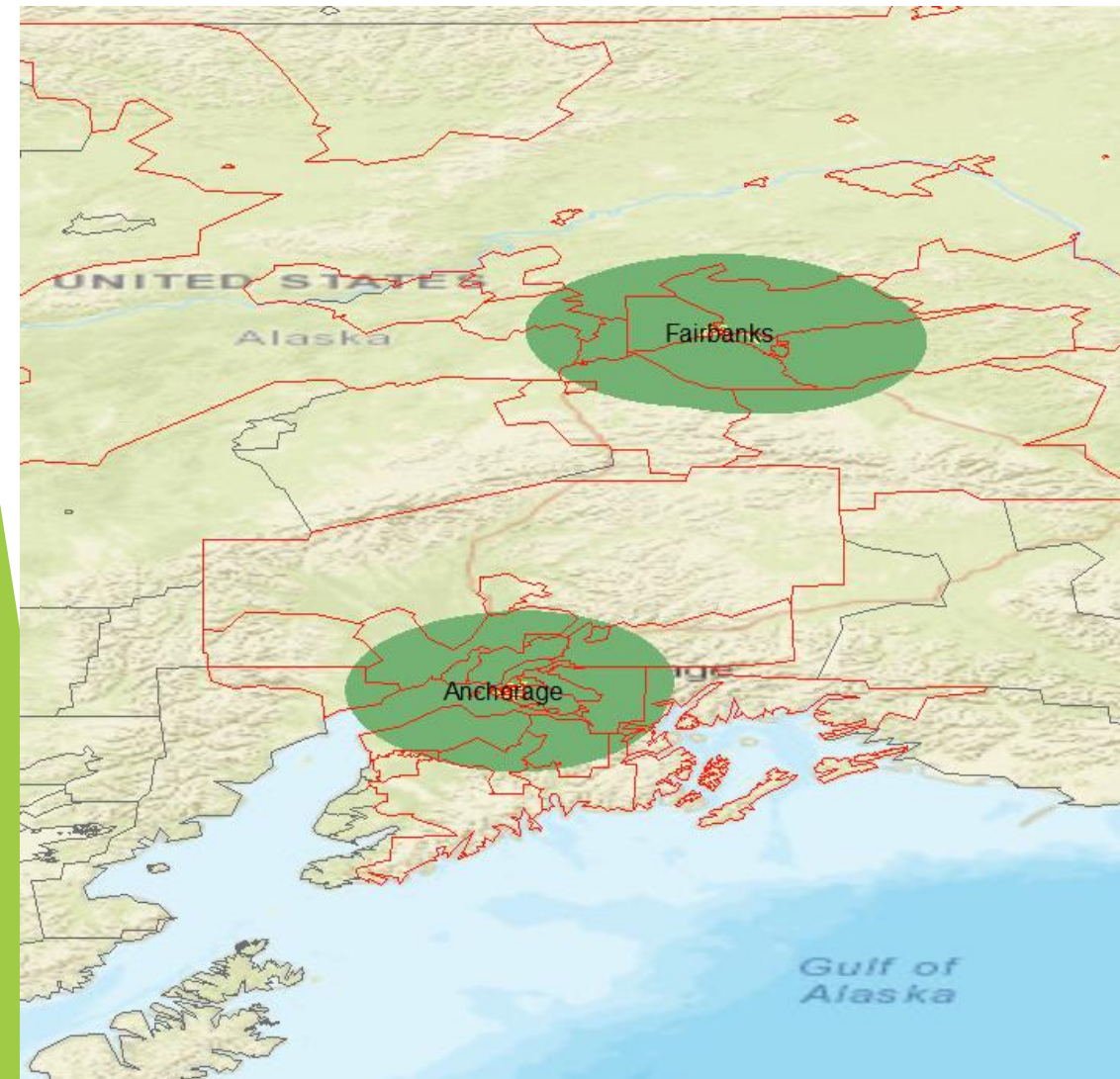


- ▶ Zip code with fewer than 300 people between the ages of 0 and 19

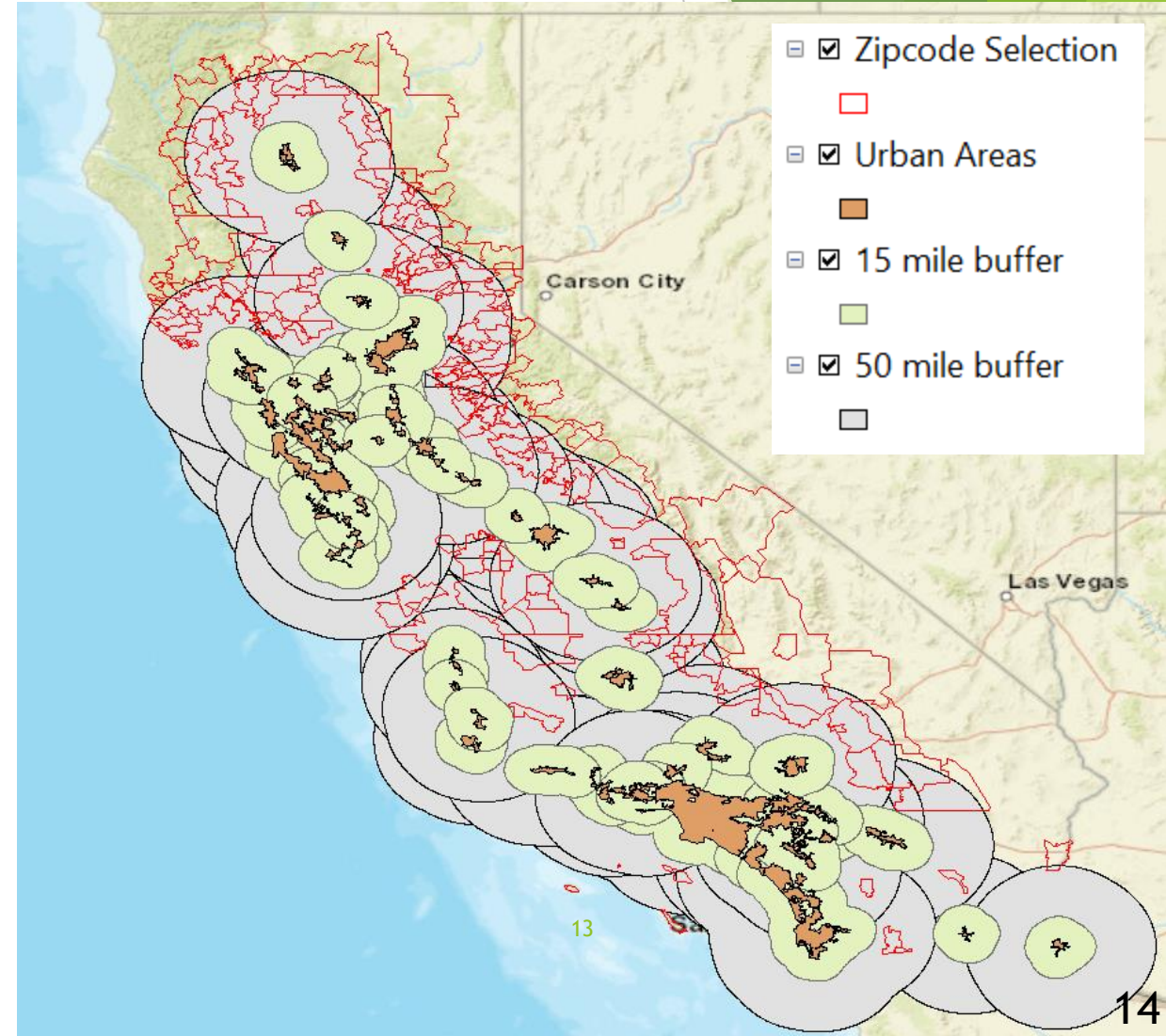
Age Parameters

Urban Areas Buffer

Alaska



California



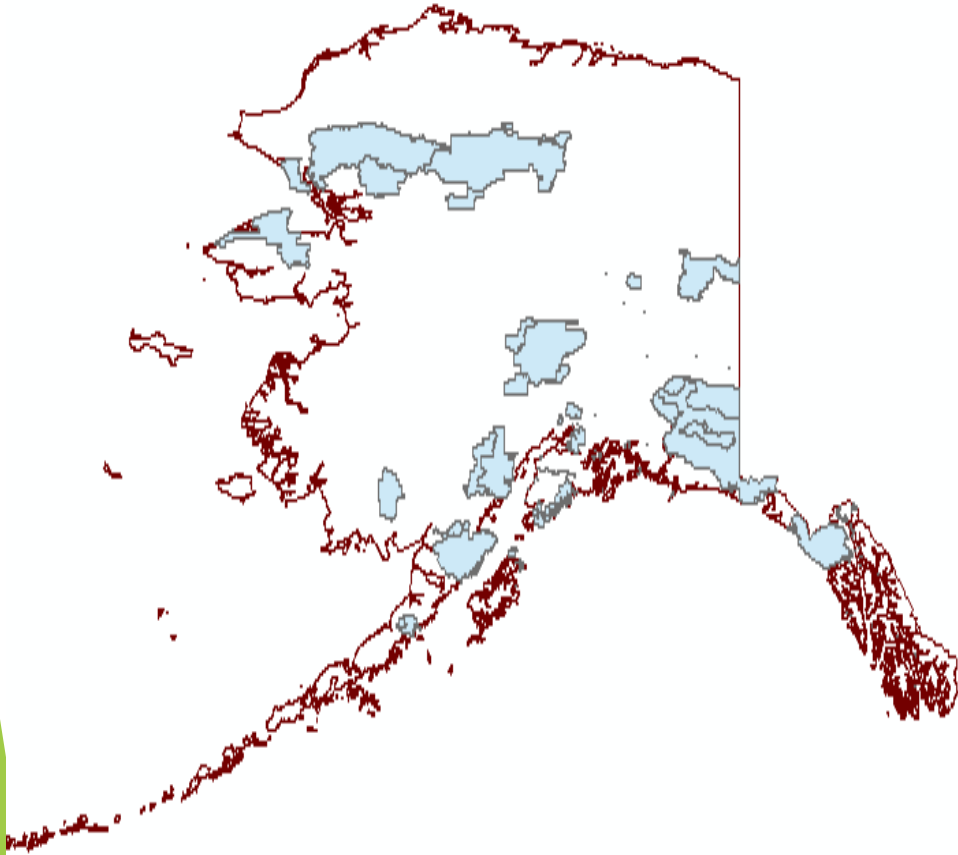


Environmental Conditions

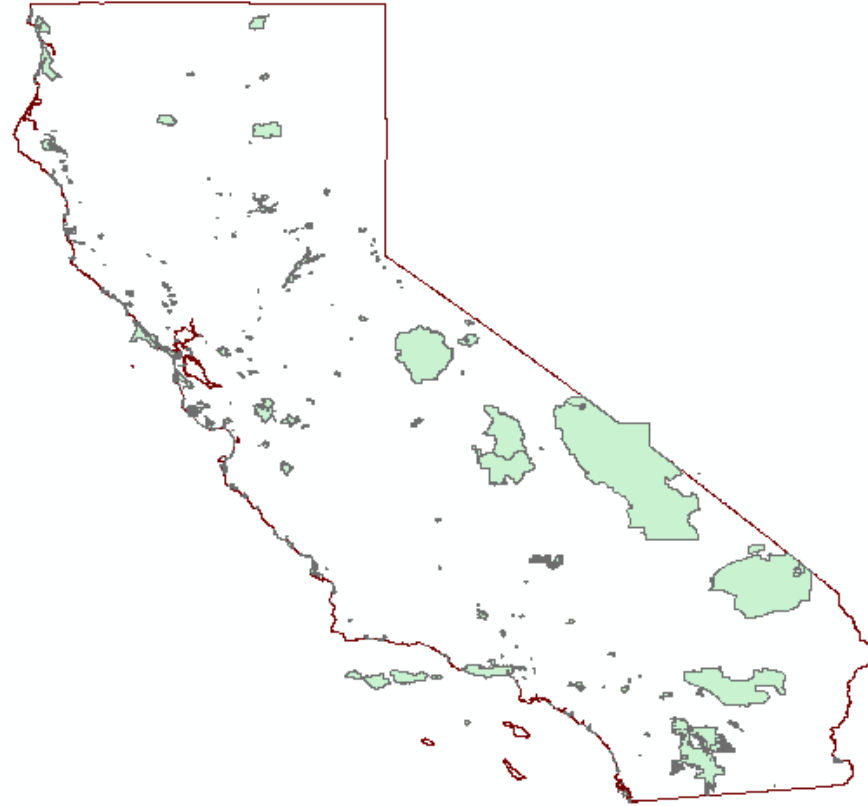
- ▶ Nearness to state and national parks
- ▶ Near bodies of water
 - ▶ Coastal
 - ▶ Lakes
 - ▶ Rivers
- ▶ Distance from industry
 - ▶ Alaska: Oil pipelines, coal fields, and mining operations
 - ▶ California: Military bases, major highways, and oil wells/ refineries

State and National Parks

Alaska

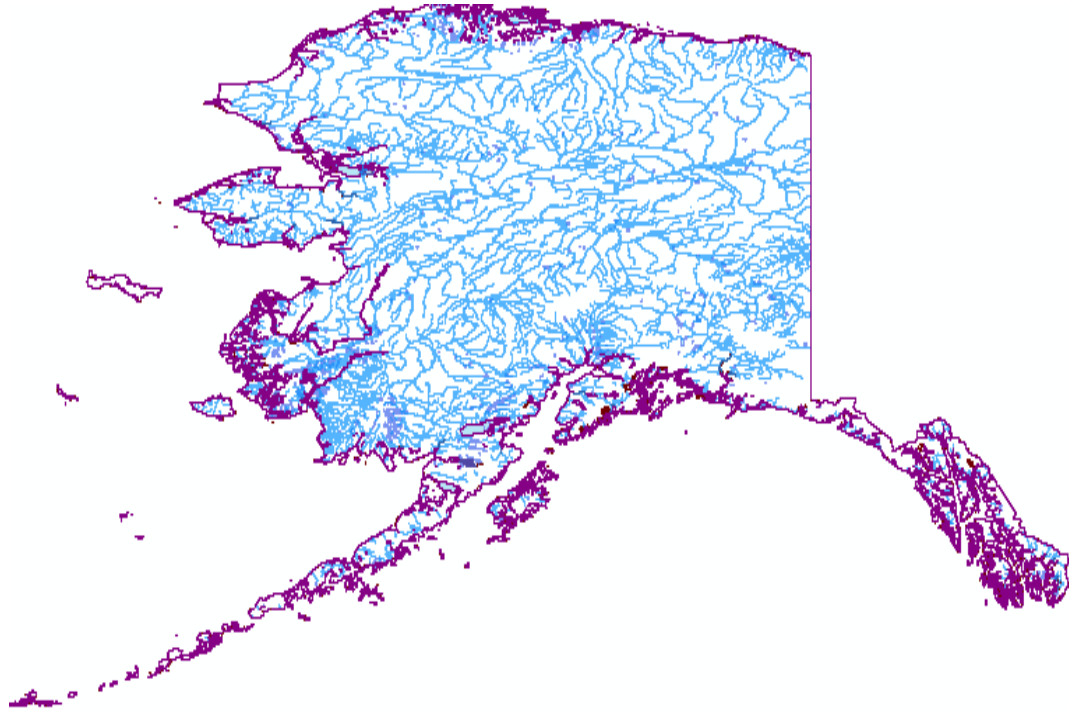


California



Hydrology

Alaska

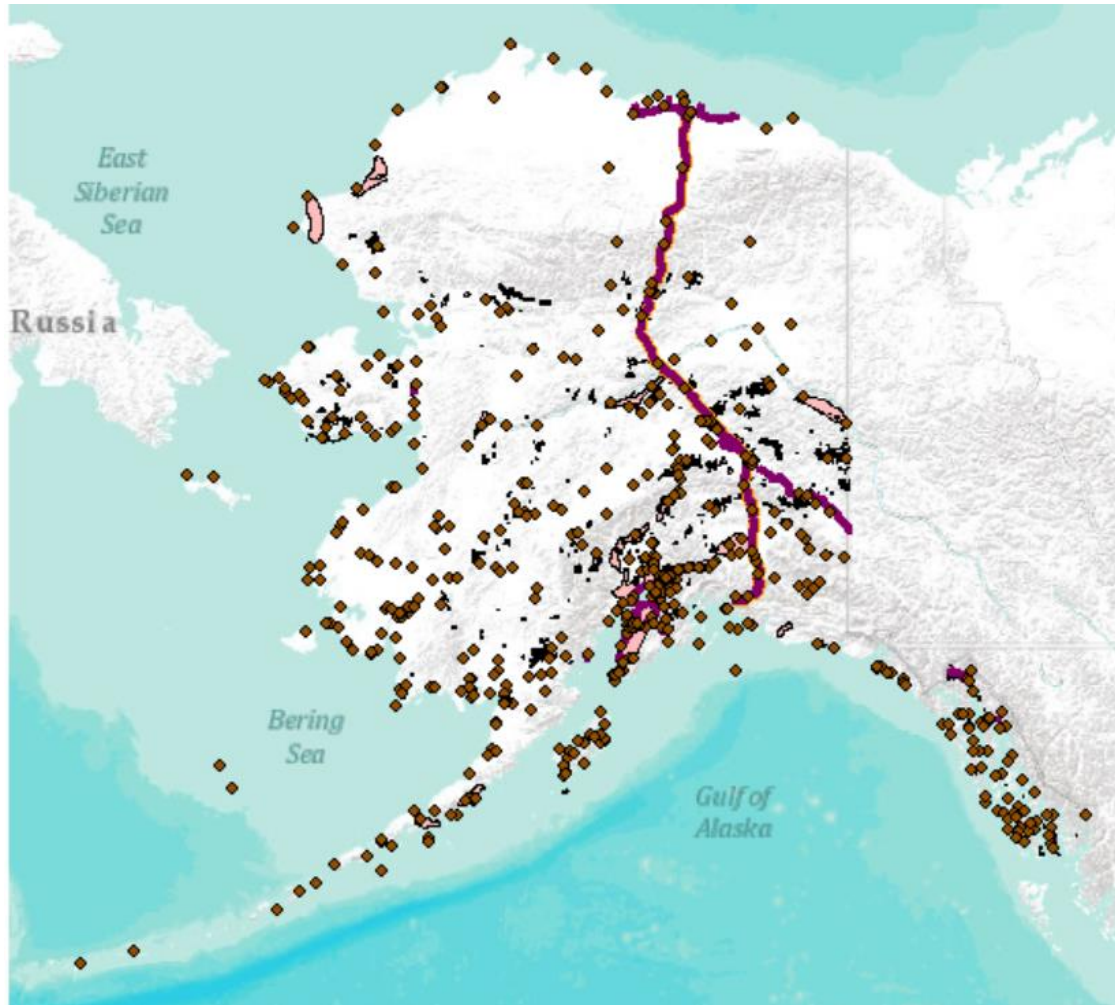


California

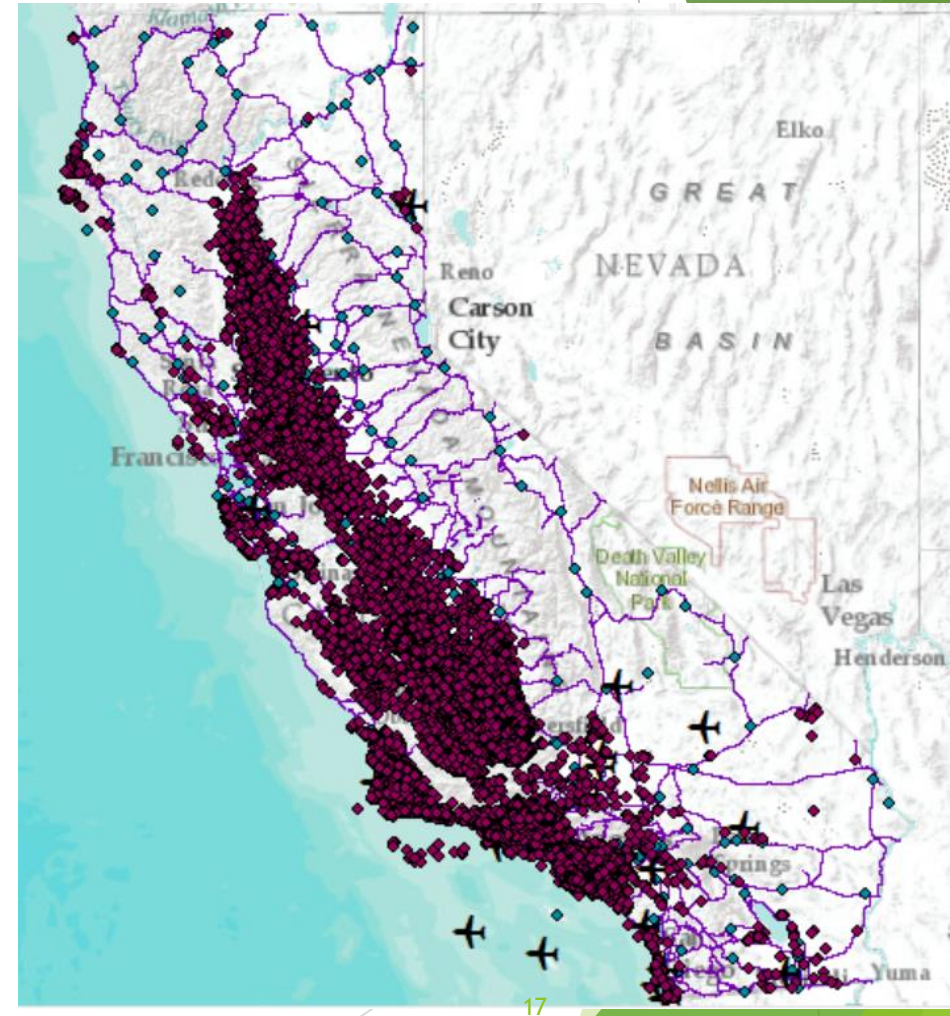


Industrial Areas

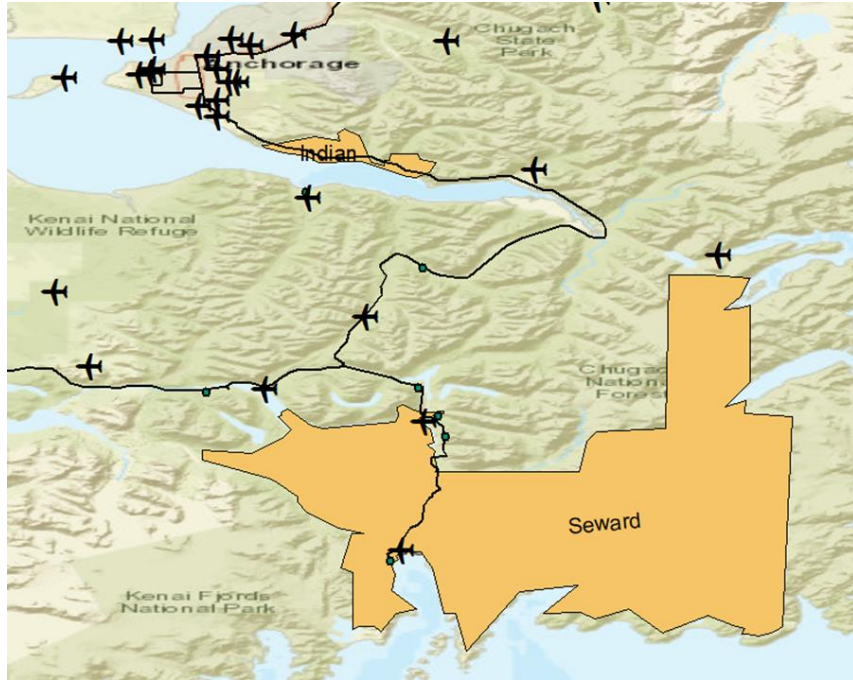
Alaska



California



Alaska



Final Results

California



Alaska

Seward (99664)

Douglas (99824)



California

Elk (95432)



Nevada City (95959)



Citations

▶ Juna's Data

▶ <http://www.asgdc.state.ak.us/#1400>

▶ http://dnr.alaska.gov/mdfiles/og_statewide_unit_tracts.html

▶ <http://www.dot.ca.gov/hq/tsip/gis/datalibrary/Metadata/Airports.html>

▶ <https://catalog.data.gov/dataset/california-zip-code-areas>

▶ <https://geodata.lib.berkeley.edu/catalog?utf8=%E2%9C%93&q=california+industrial&bbox=-180%20-89.81531%20180%2089.456192>