



# Los Angeles County Oil Wells

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# Introduction

- Oil extraction in LA County has been prevalent since 1890s
- Active oil extraction is supposed to be phased out by 2043
- Despite many wells being plugged, communities across LA County are disproportionately environmentally affected



# Research Question

What is the relationship between the proximity of active oil wells and socio-economic indicators across Los Angeles County?

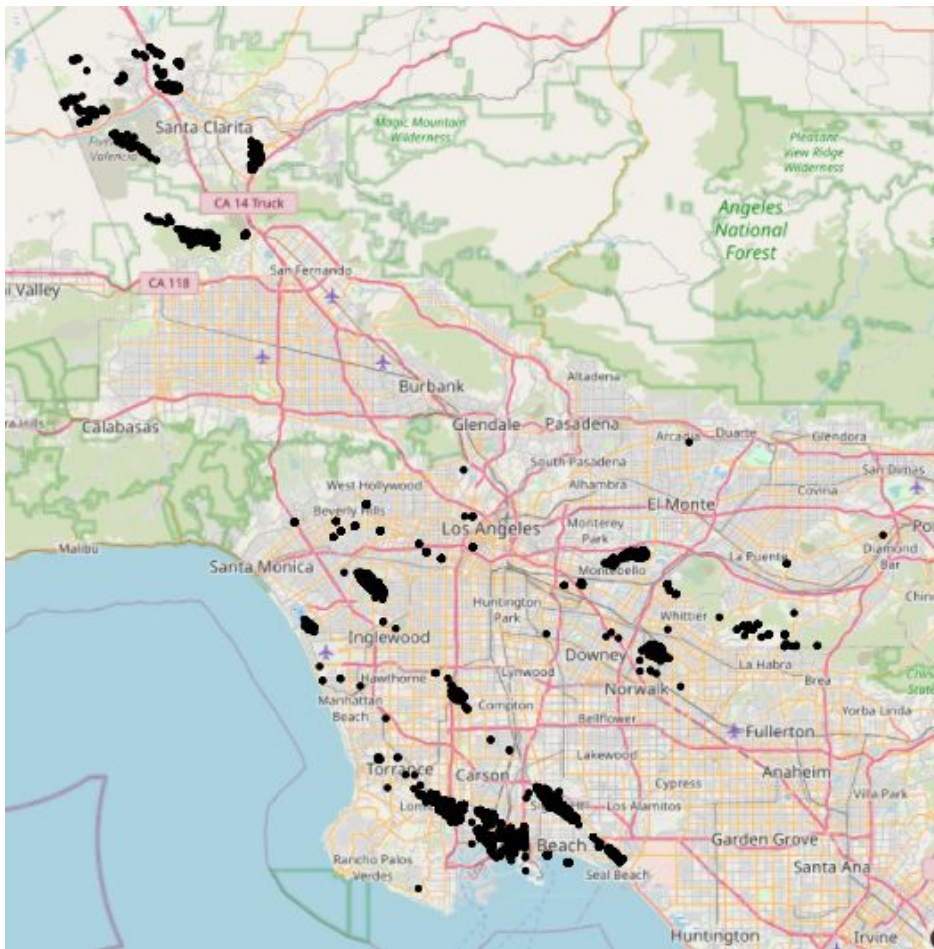
# Data Sources

## Los Angeles County Oil Wells:

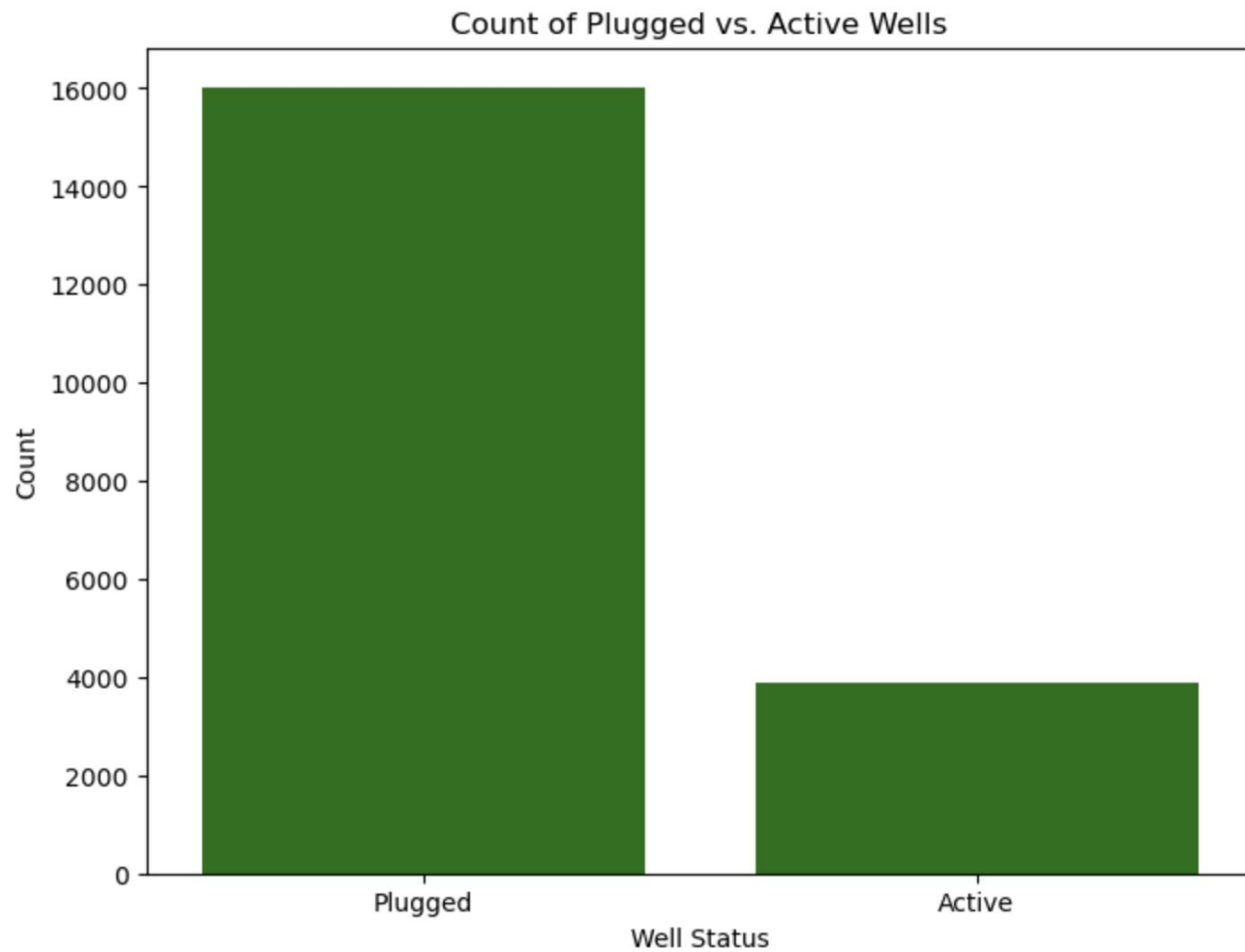
- Well Status\*
- Oil wells geospatial data
- Operator, and lease information

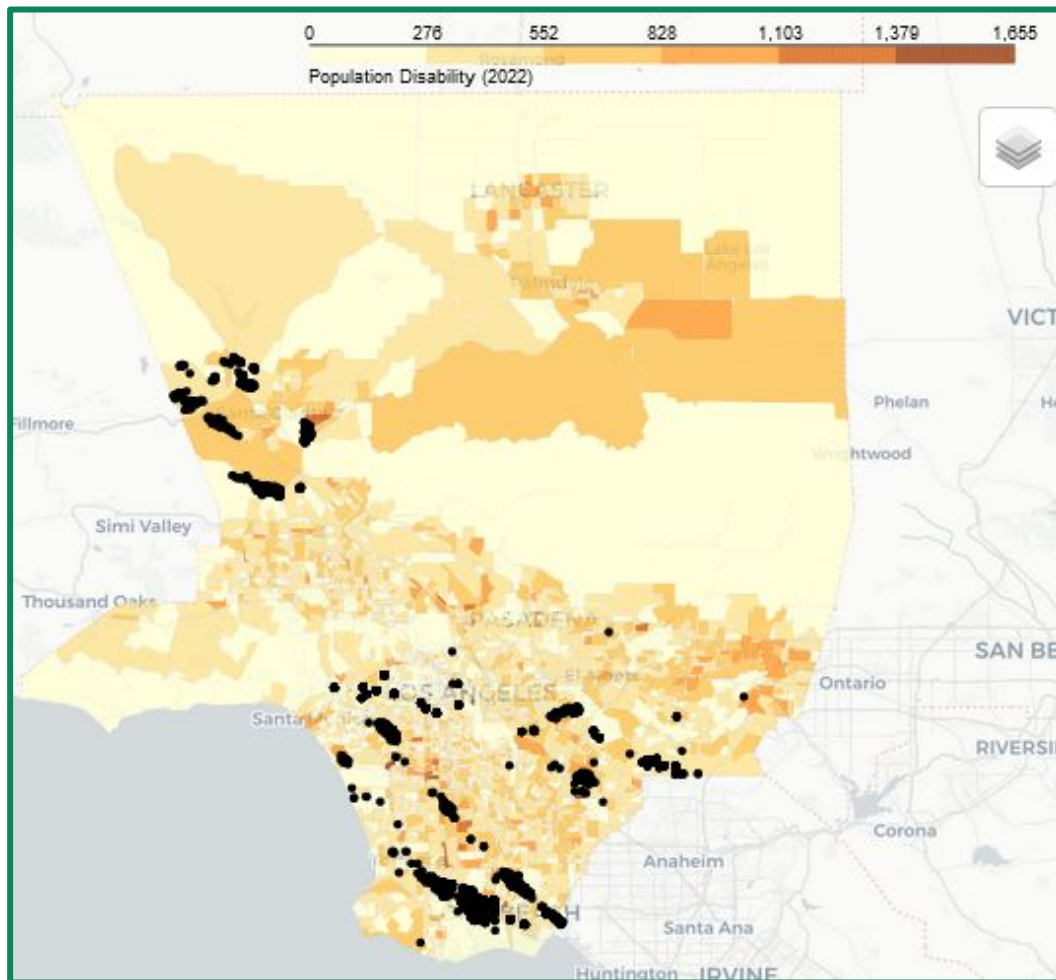
## ACS 2022 Census Data:

- Race/Ethnicity
- Income
- Housing Values
- Education
- Disability

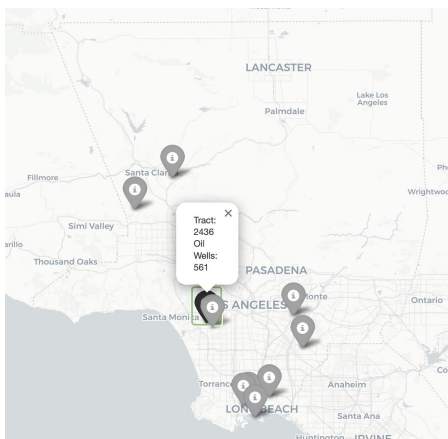


**Oil Field  
Concentrations:**  
Inglewood, Long  
Beach, Santa  
Clarita but some  
beyond

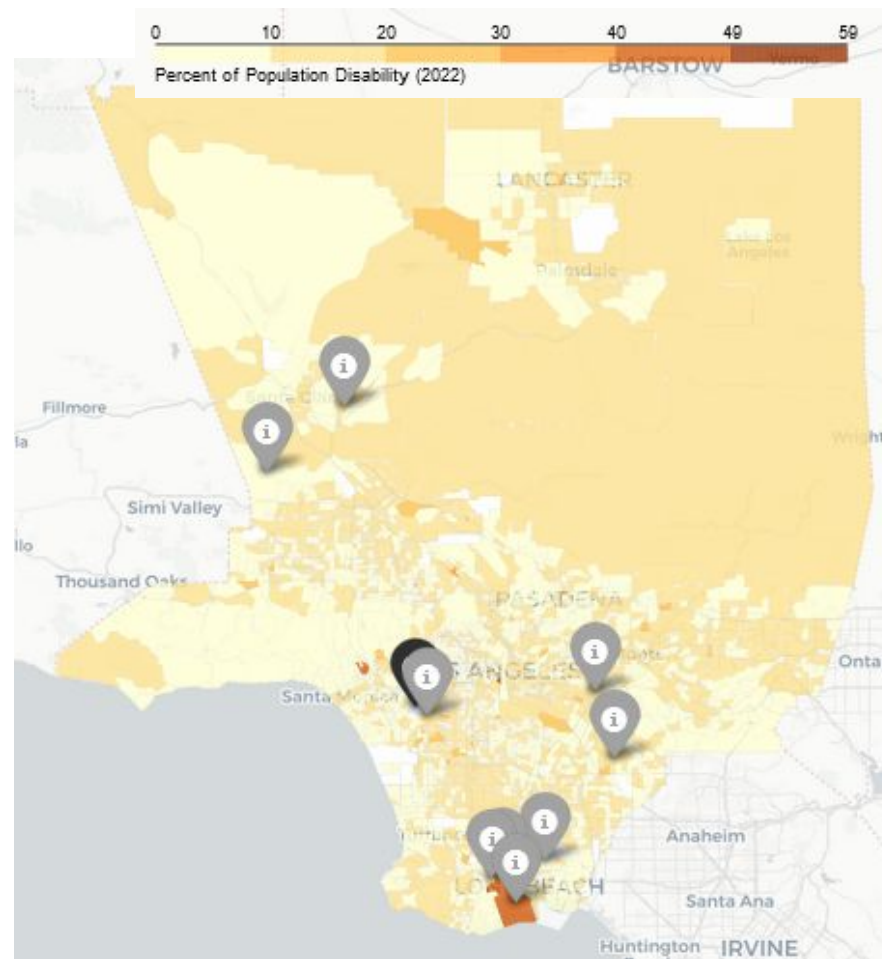
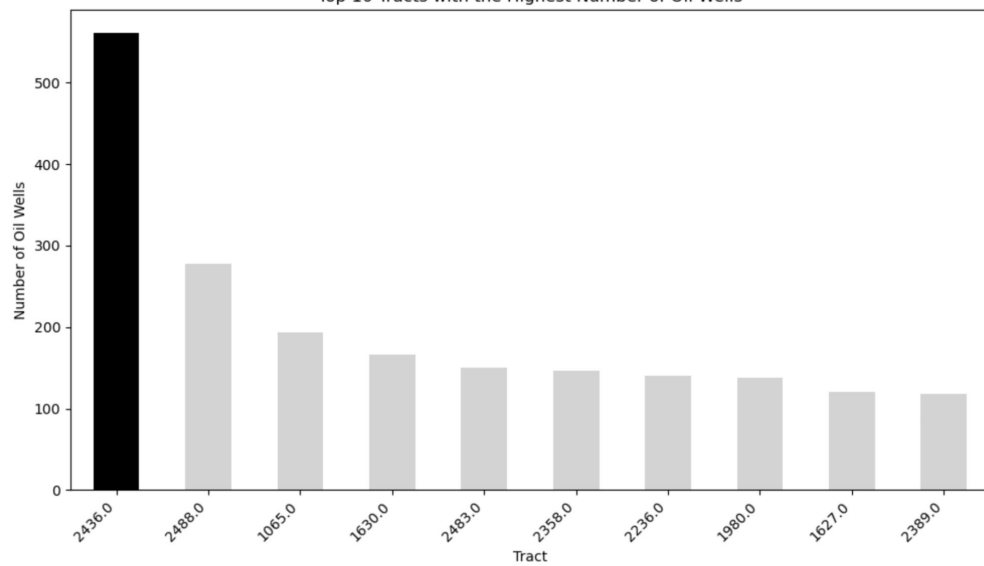




Disability

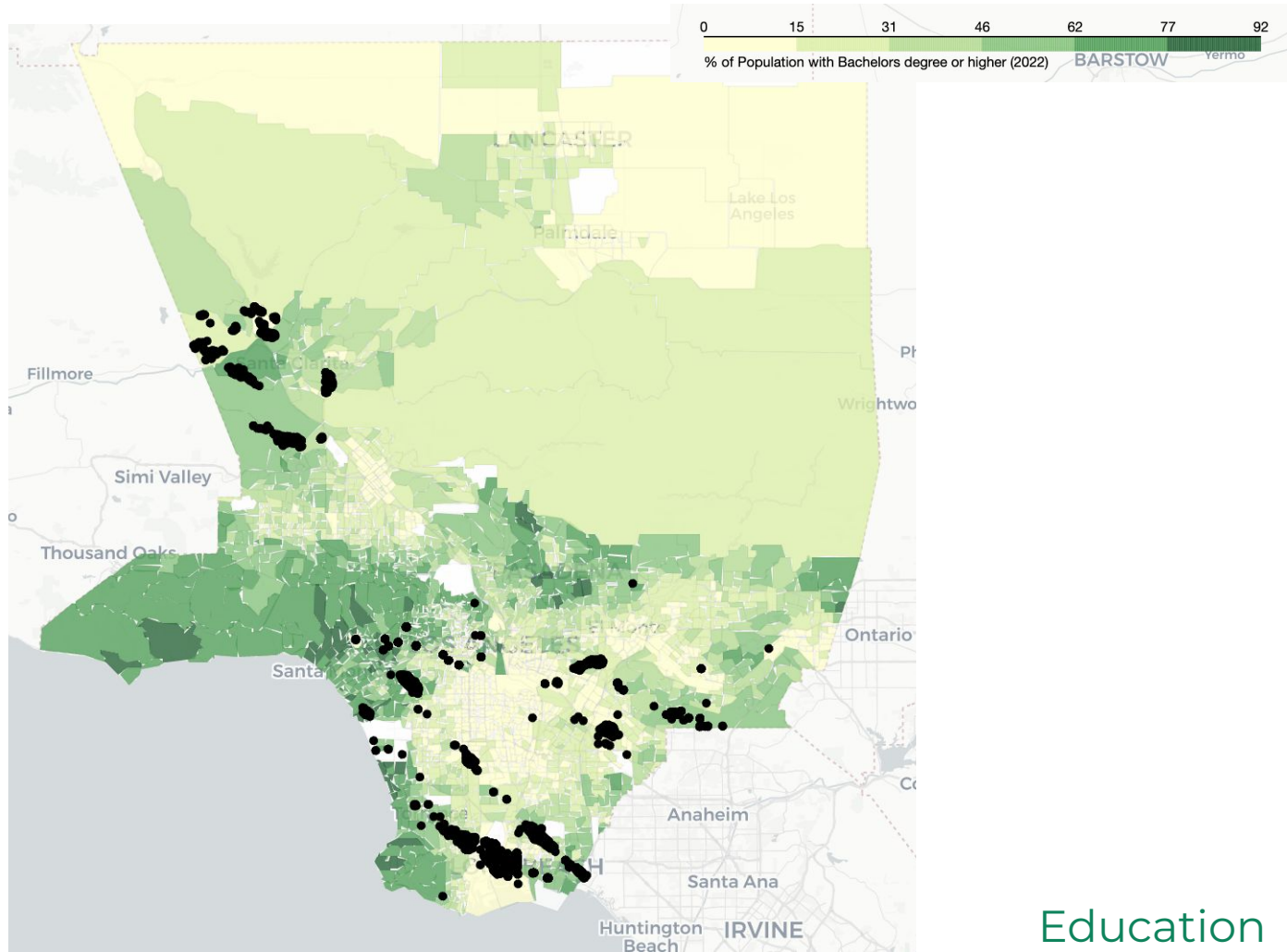


Top 10 Tracts with the Highest Number of Oil Wells



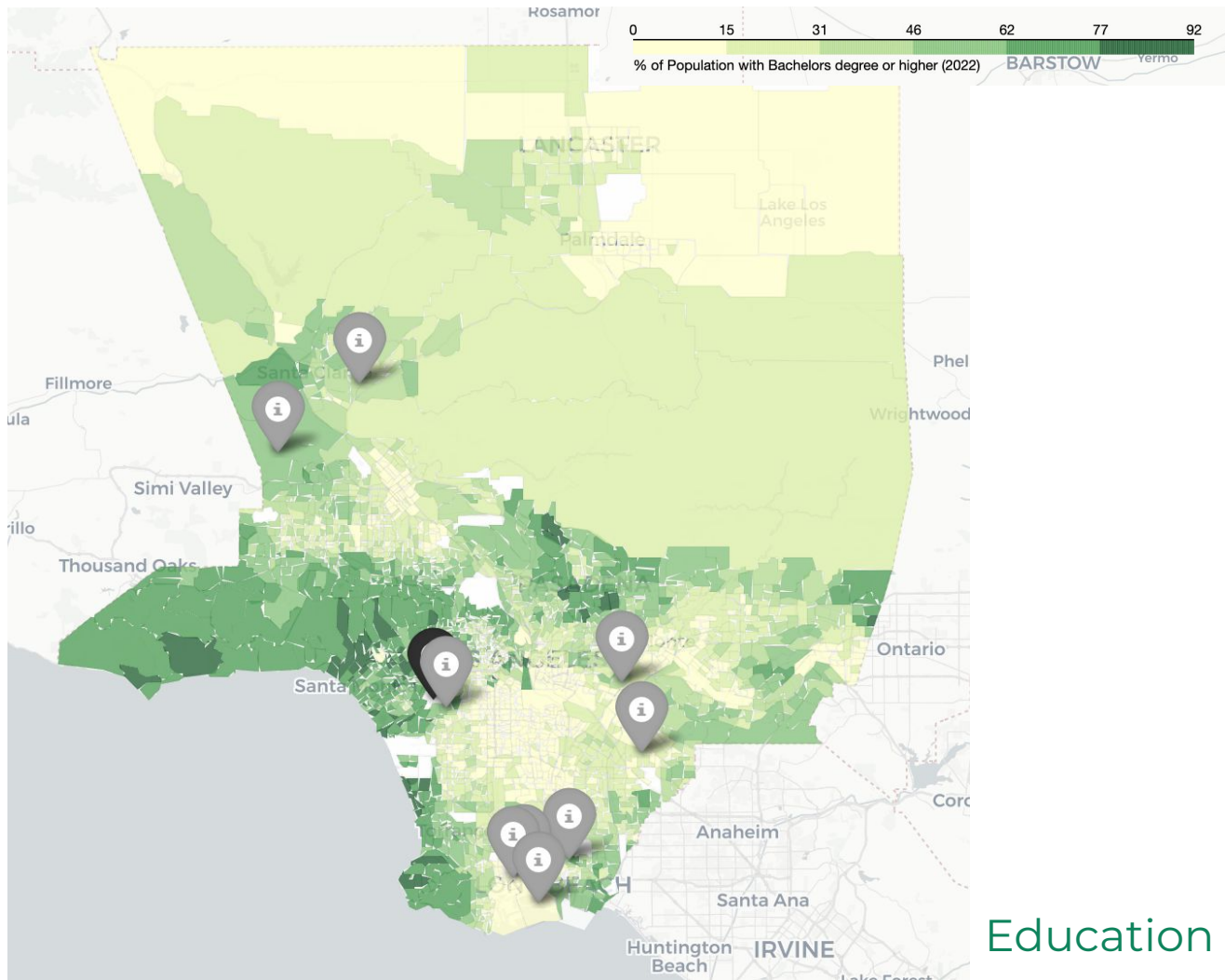
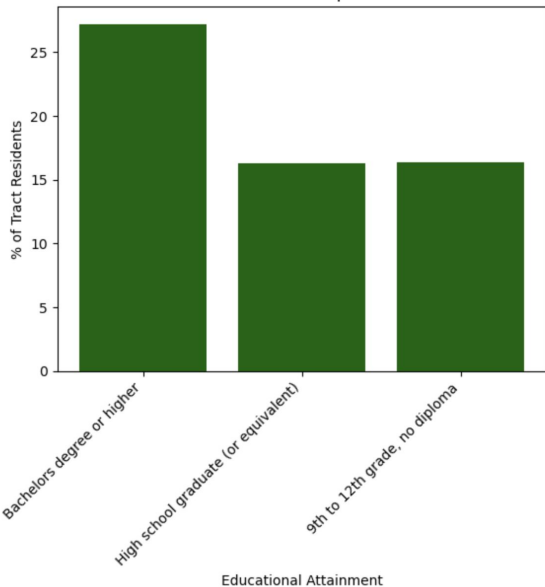
Disability





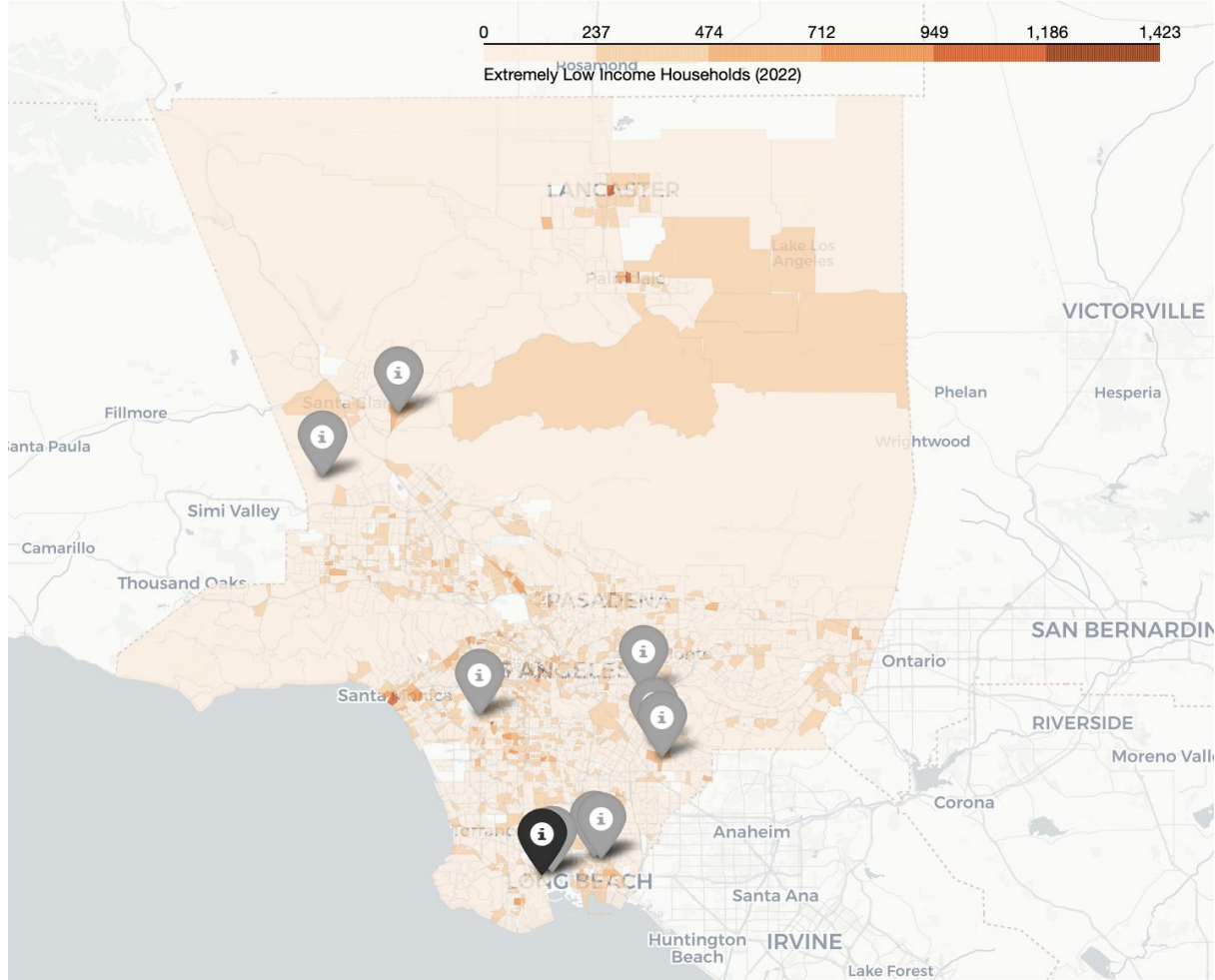
Education

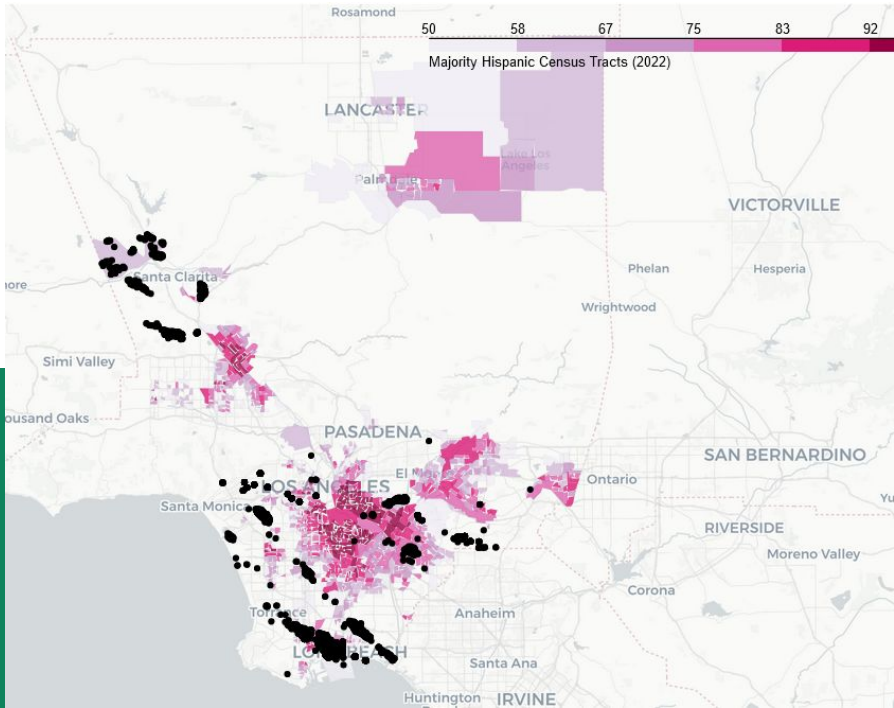
Educational Attainment in Top 10 Oil Wells Tracts



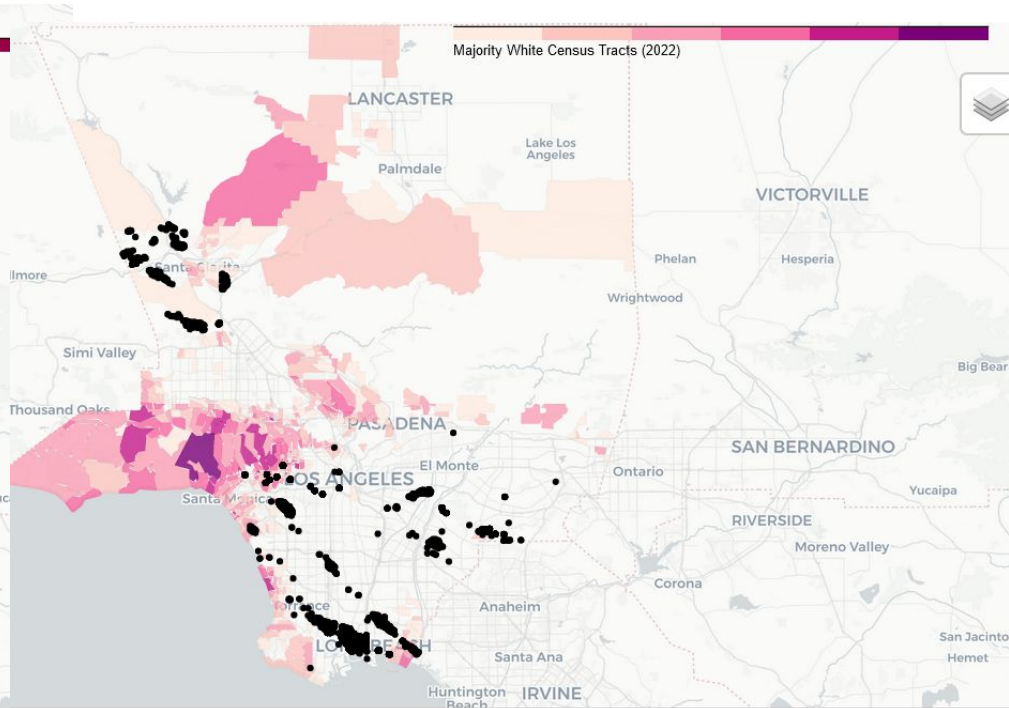
Education







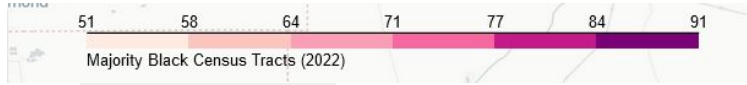
Majority Hispanic Census Tracts



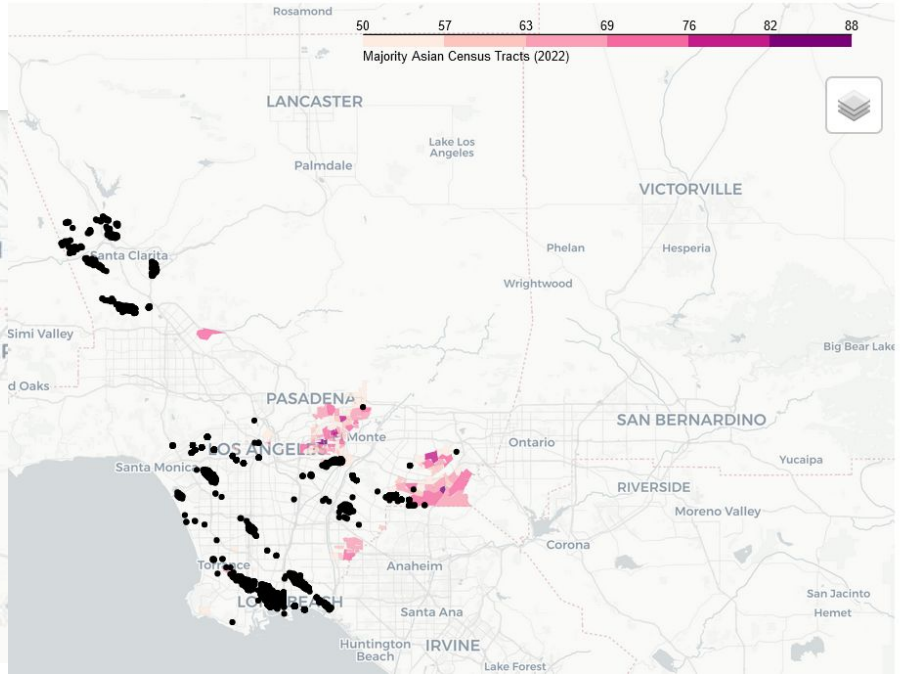
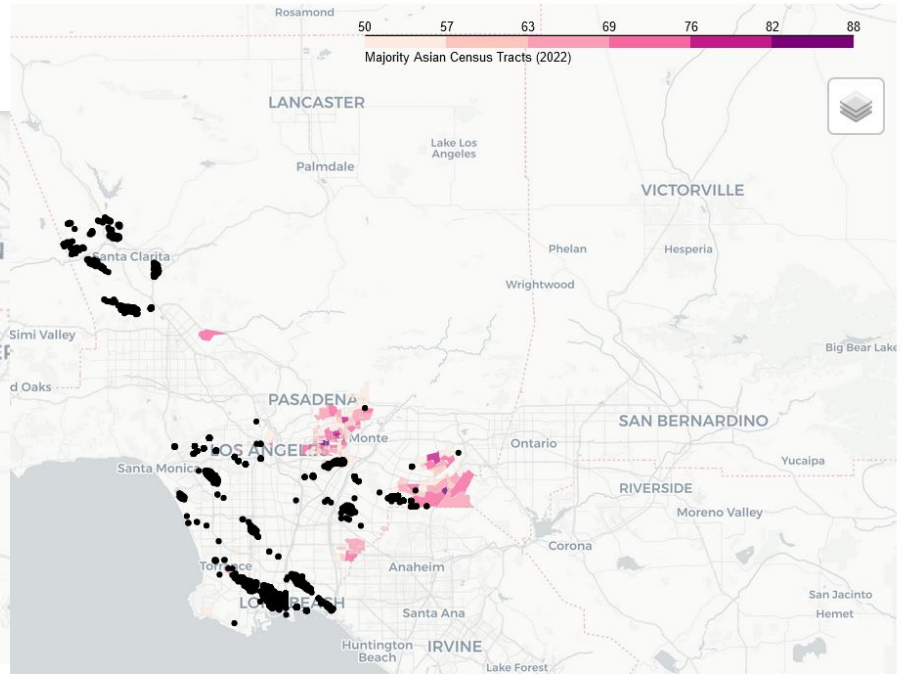
Majority NH-White Census Tracts

Race/Ethnicity



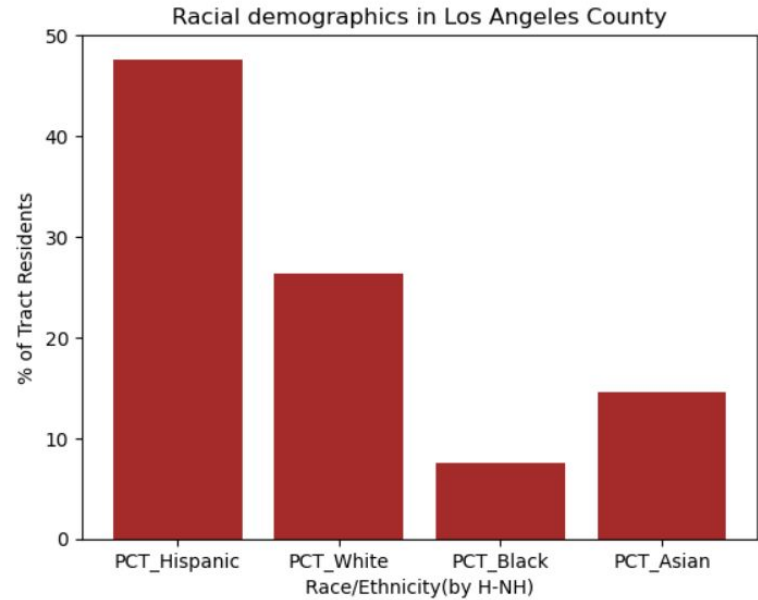
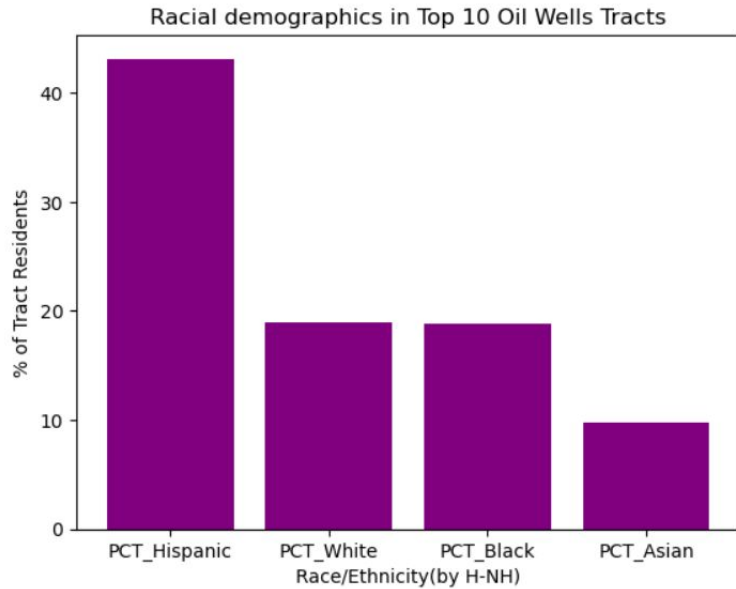


Majority NH-Black Census Tracts

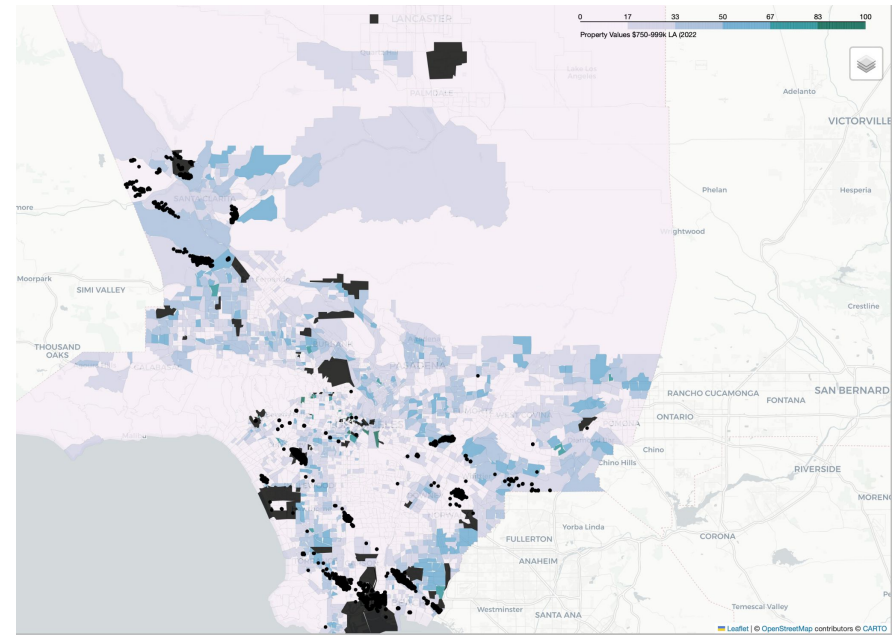
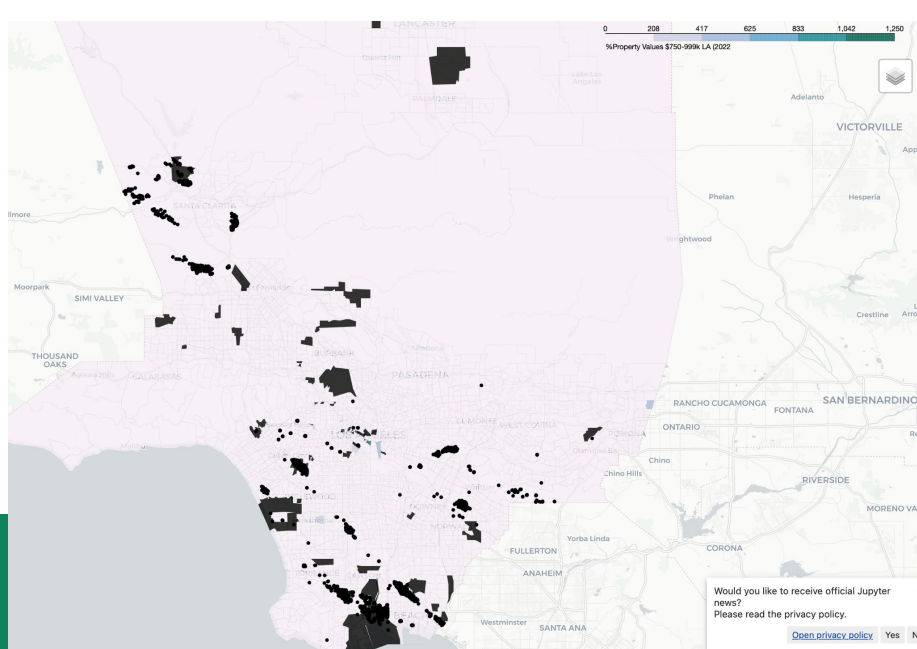


Majority NH-Asian Census Tracts

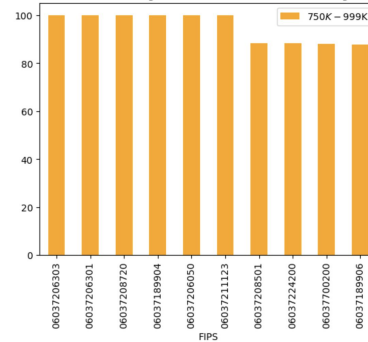
Race/Ethnicity



Race/Ethnicity



Top 10 Census Tracts with Housing Values of 750K – 999K in Los Angeles County in 2022



Housing Values



# Conclusion

- Variables have different observed relationships (strongly or weakly aligned) with oil well density
  - e.g., numbers of people living with disability and majority Black census tracts strongly aligned
- Top census tracts for active oil wells may over represent minority communities, areas with at least 250K ELI households and less than 50% college graduates
- There is a clear need to narrow down our area of study and variable selection for a more targeted in-depth analysis.
  - e.g., establish variable correlation with oil well density

# Next Steps

- Explore environmental rating datasets and establish relationship with oil well density (e.g., CalEnviroScreen rating, Social Vulnerability Index)
- Narrow down to a specific area, and variables that seem to have the biggest observed alignment with oil wells density
- Complete a correlation estimation and time series exercises for prioritized areas/variables