

# **Exploring the Relationship Between Population Health and Food Insecurity in U.S. Cities**

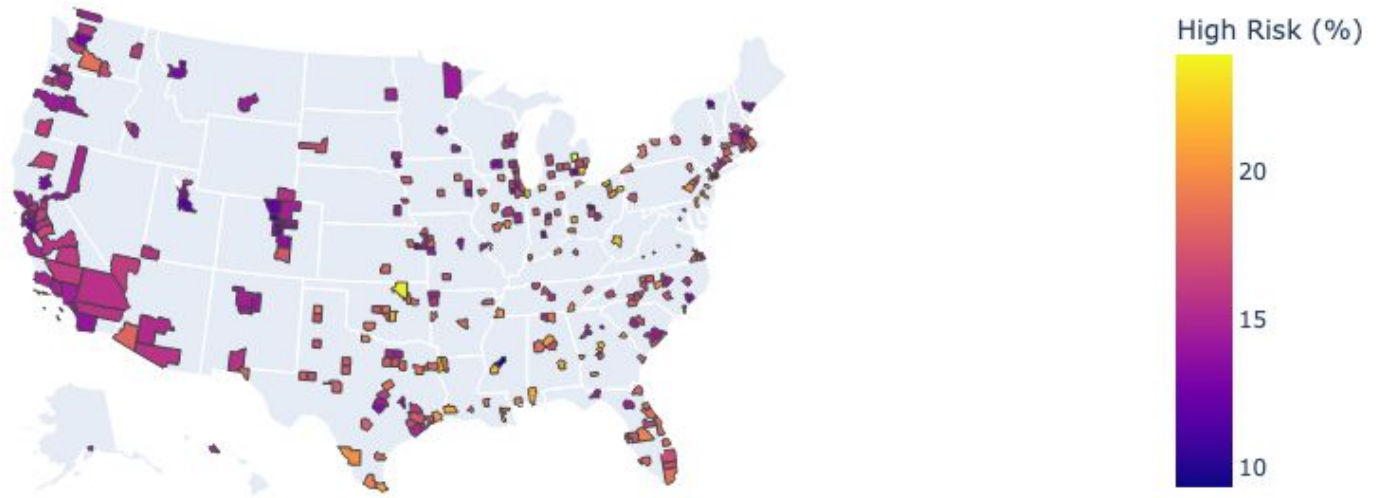
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# Accessing Data and Feature Selection

- Focused on nutrition-related features from city health data
- Focused on low food access features from food atlas (primarily Low Access to Food as a percentage)
- Joined data frames on county FIPS code, meaning counties of focus are those containing at least one city
- Later created a high nutritional risk % column as average of all nutrition-related features

# Exploratory Visualizations

US Counties with High Nutritional Risk



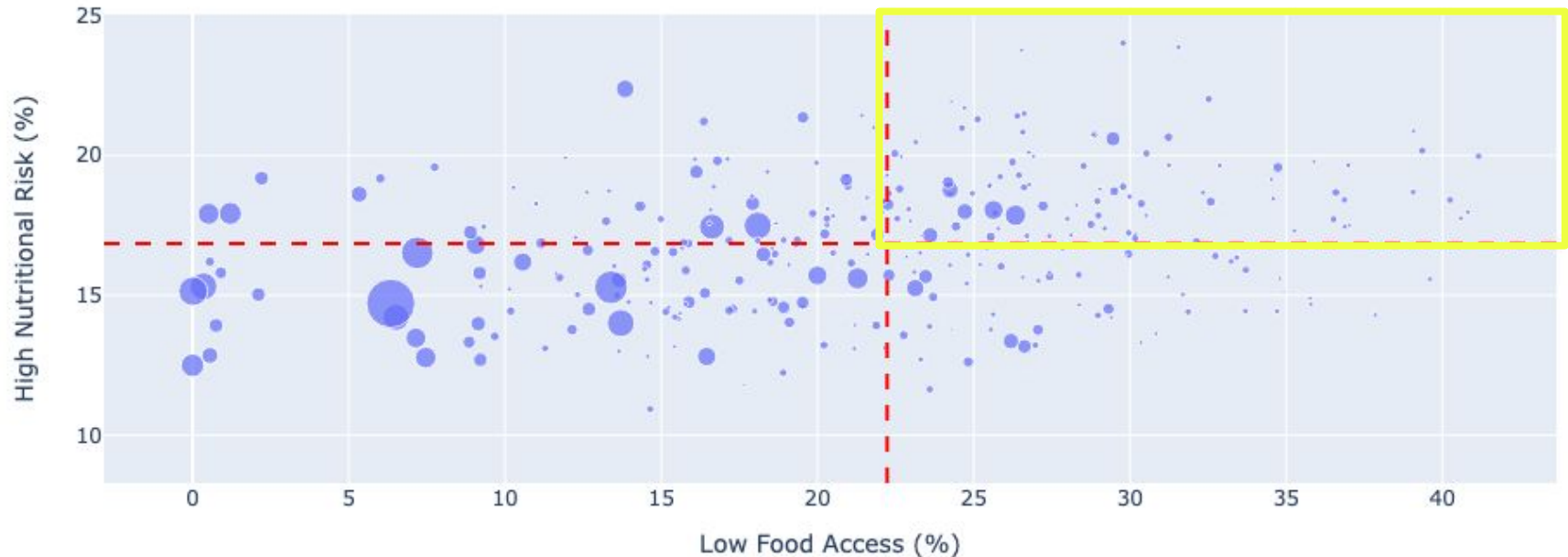
# Exploratory Visualizations

US Counties with Low Food Access



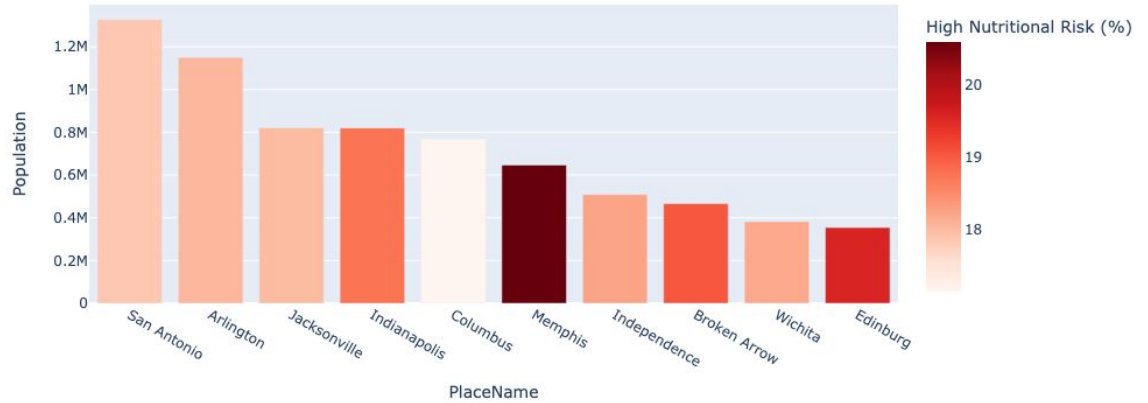
# Where should we implement food access programs?

Low Food Access vs. High Nutritional Health Risk (Size by Population)

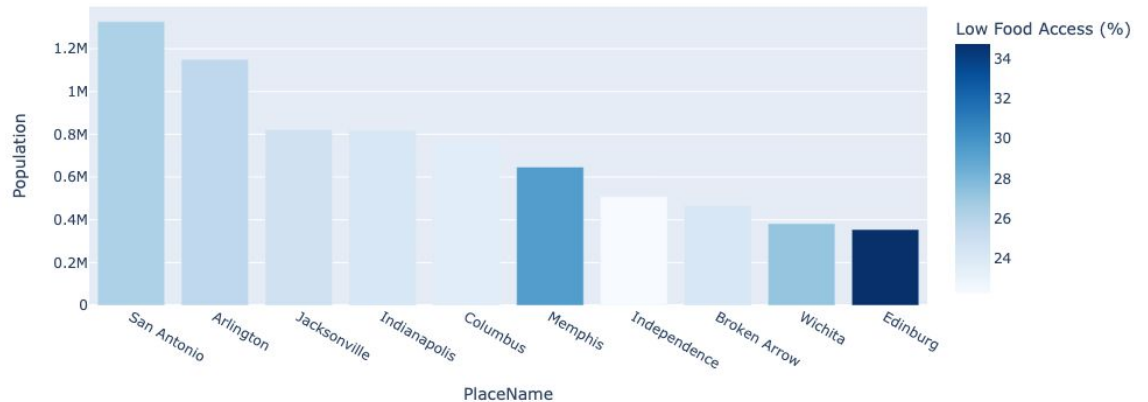


Selected the 10 most populated counties with both high nutritional risk and low food access.

Top 10 Counties - Colored by High Nutritional Risk (%)

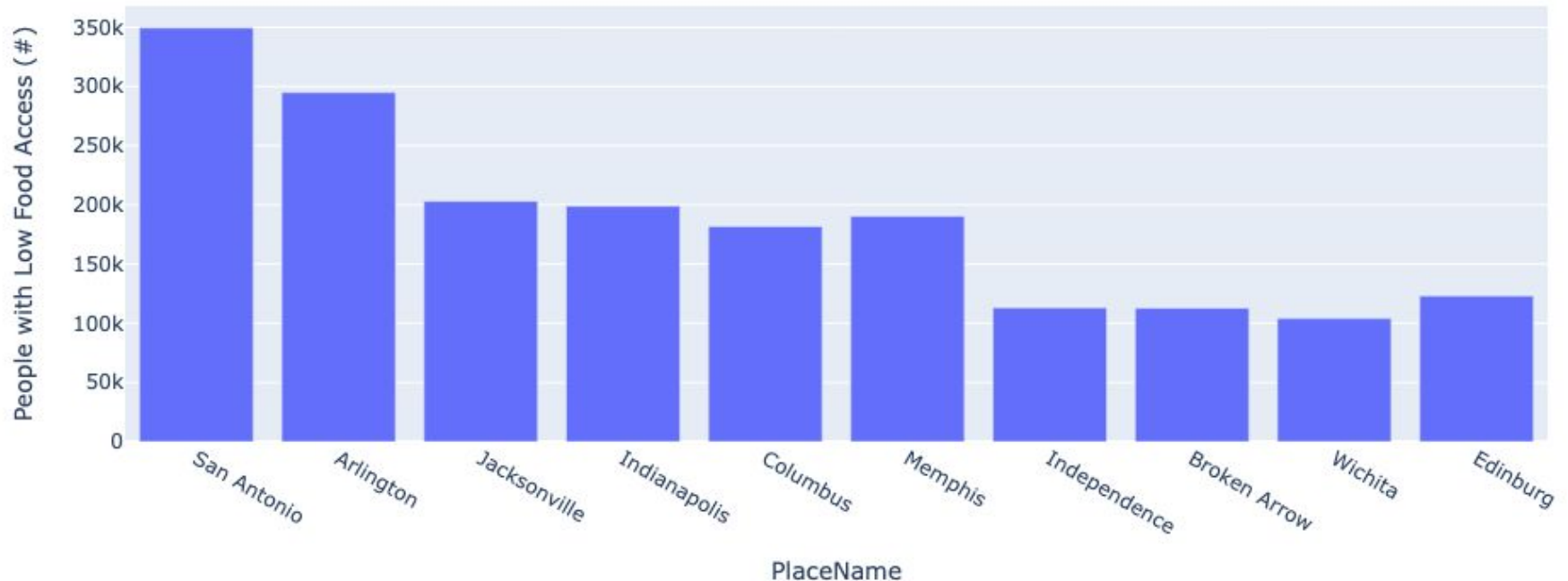


Top 10 Counties - Colored by Low Food Access (%)



# How many people will be affected?

Number of People Affected - Total: 1,871,857



# What is the projected\* impact?

\*Assumptions about participation (88%, similar to SNAP) and health improvement (50%)

## Projected Impact of Food Access Program





# What subgroups will specifically benefit?

\*Same assumptions

Medical Diagnoses Before and After Food Access Program

