

Food Access Program Deployment Plan

A collage of various fruits and vegetables including popcorn, cashews, blueberries, bell peppers, tomatoes, cranberries, walnuts, and citrus slices.

N1 Health Analyst Data Challenge
Completed by Winnie Lau

Overview



01

Areas of Deployment

Where should the food access program be deployed?



02

Demographic Breakdown

Which subgroups are impacted by the program?



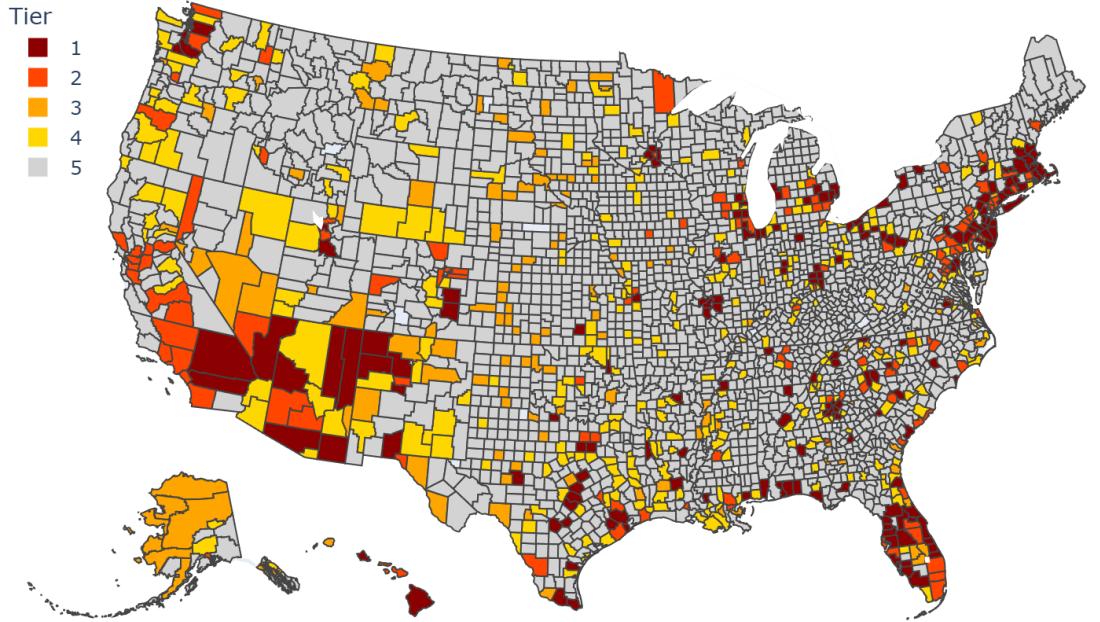
03

Effects of the Program

What is the projected participation? What are the health and socioeconomic impacts?

Areas of Deployment

Priority Tiers by County



Ranked using Priority Score (high to low):

$$\text{Priority Score} = P^\alpha \cdot N^{(1-\alpha)}$$

P: Proportion of population with low access relative to highest low-access population
N: Need index calculated from percentage of vulnerable groups with low access
 α : tunable parameter to prioritize either population or percentages

Tier 1: 26.03 M

- 182 counties
- Most urgent intervention needed

Tier 2: 13.2 M

- 128 counties
- Large populations prioritized (urban)

Tier 3: 1.23M

- 128 counties
- High low-access prevalence prioritized (rural)

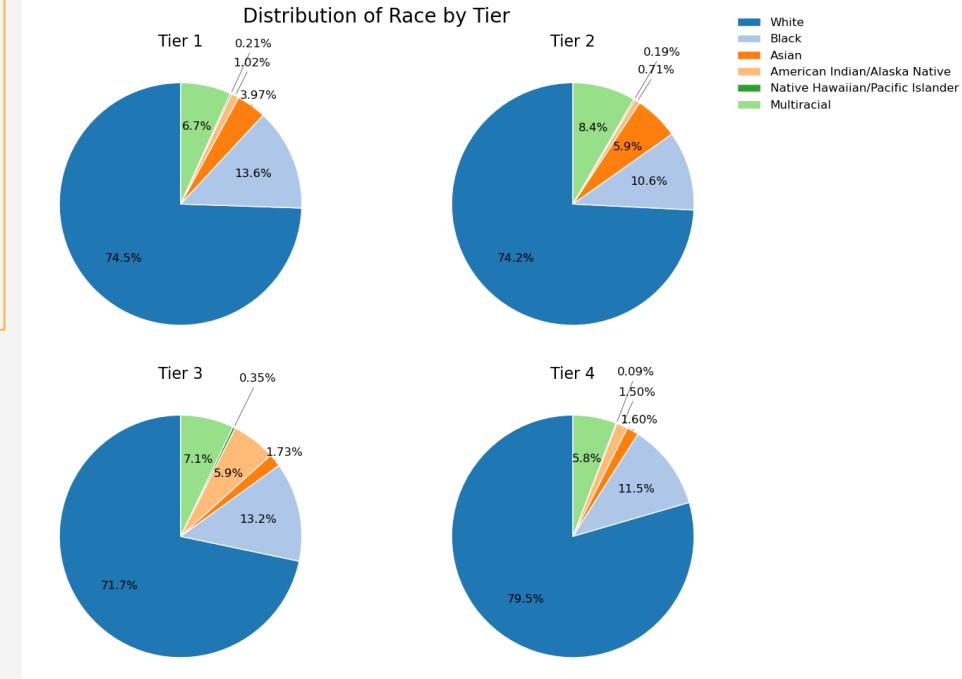
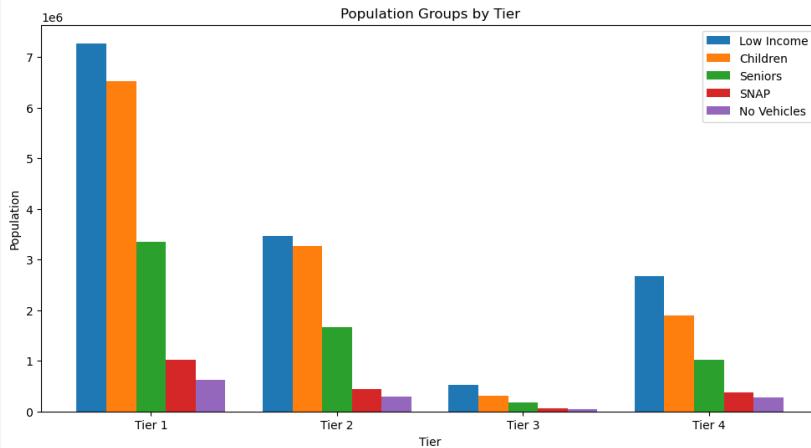
Tier 4: 7.78 M

- 330 counties
- Populations to monitor

Demographic Breakdown by Tier

Key Notes

- Largest population groups supported are low-income individuals, children, and seniors
- Tier 3 has a comparatively higher proportion of American Indian/Alaska Natives



Effects of the Program

With over **40 million** people in Tiers 1-3, a projected program participation rate of **50-85%** (on par with SNAP participation in 2022 for different groups, according to the USDA) would mean **20-34 million** people assisted.

