



# Food Access Program Deployment Plan

N1 Health Analyst Data Challenge  
Completed by Winnie Lau

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# Overview



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## Areas of Deployment

Where should the food  
access program be  
deployed?



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## Demographic Breakdown

Which subgroups are  
impacted by the program?



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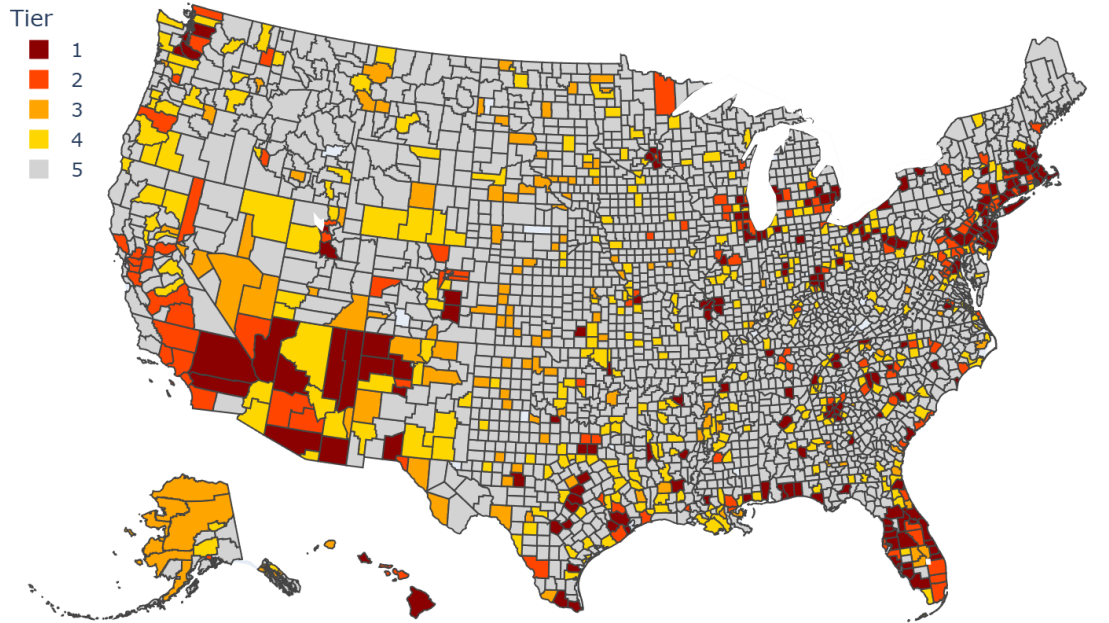
## Effects of the Program

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

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# 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

$\alpha$ : 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)

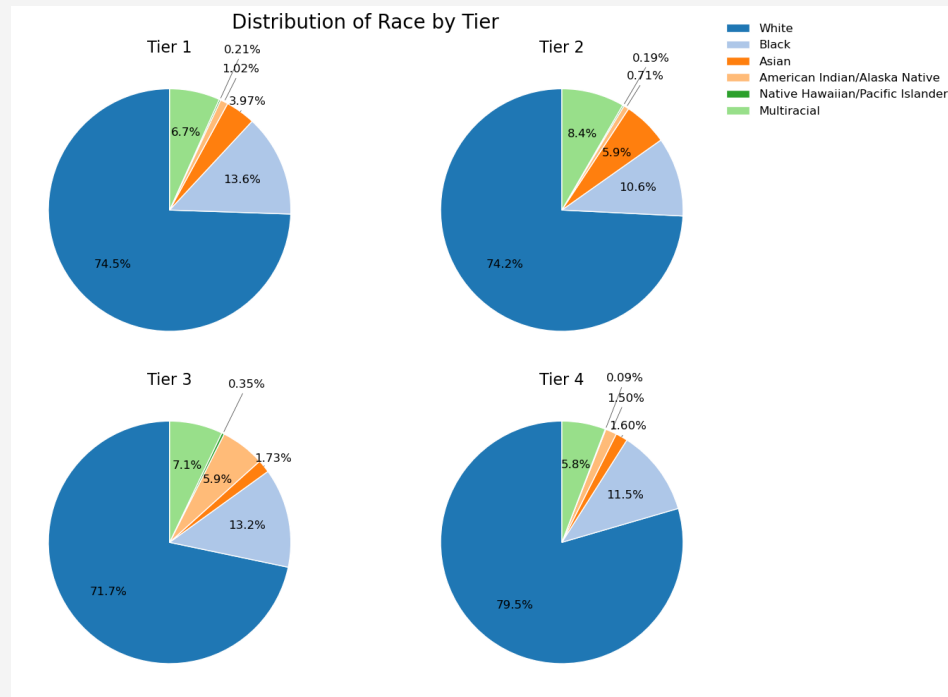
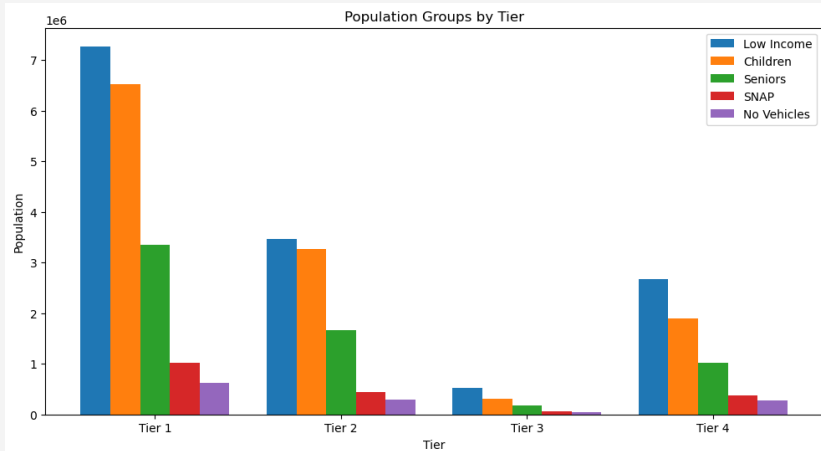
## Tier 4: 7.78 M

- 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



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# 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.

