

THE **SNAP GAP**

By Leah Nagy

FOOD WASTE

40%

Of all food is wasted in the United States each year

68%

Of all farm-picked produce is wasted

12%

Of Americans are food insecure

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Let's close the gap between food
surplus and hunger!

OUR MISSION

Our goal is to provide access to
healthy food to populations that
have low access and/or low
income.

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IMPACT

LILA CONSUMER



Decreased food insecurity



Better overall health

FARMS



Less food waste



Increased financial security

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SOLUTION PATH



COUNTY-LEVEL

Identify features of low income/low access communities through classification



CITY-LEVEL

Use classification model to predict at-risk cities using census data



IDENTIFY FARMS

Locate farms near at-risk cities



LOGISTICS

Contracts, funding, transportation

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EXPLORATORY DATA ANALYSIS

TOOLS USED



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Income & Ethnicity

Income & Ethnicity

Ethnic minorities have experienced income disparities compared to the white population in the United States. While all populations that earn a below average income have a higher incidence of food insecurity, minorities experience this at a higher rate. Areas with high rates of ethnic minorities and areas with lower than average household income are locations at risk of having low access to healthy food.

Definitions

Low access: Percent of population in a county living more than 1 mile from a supermarket or large grocery store if in an urban area, or more than 10 miles from a supermarket or large grocery store if in a rural area.

Low income and low access (LILA): Percentage of people in a county with low income and living more than 1 mile from a supermarket or large grocery store if in an urban area, or more than 10 miles from a supermarket or large grocery store if in a rural area.

Poverty: Percent of the county population living in families with income below the poverty threshold; poverty status thresholds vary by family size, number of children, and age of householder.

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LILA (%)

30.10

71.84

Ethnicity

(Multiple values)

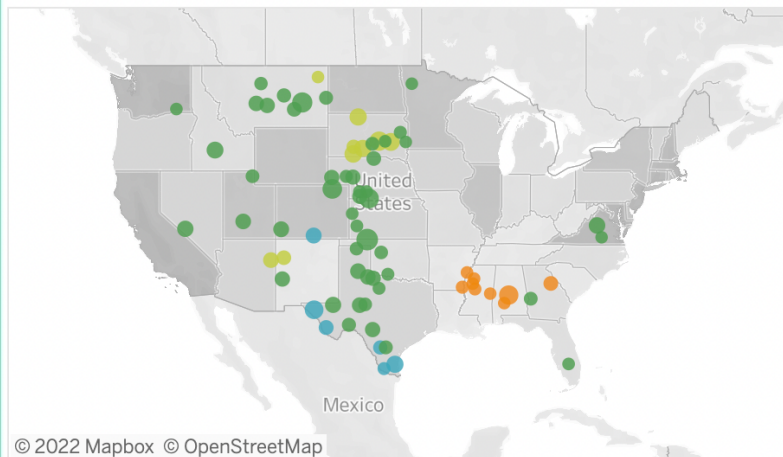
Ethnicity

- White
- Hispanic
- Black
- Nat. Amer.

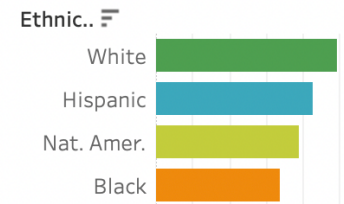
Median Household Income

- 20,100 to 51,400
- 51,400 to 56,200
- 56,200 to 60,100
- 60,100 to 70,100
- 70,100 to 82,600

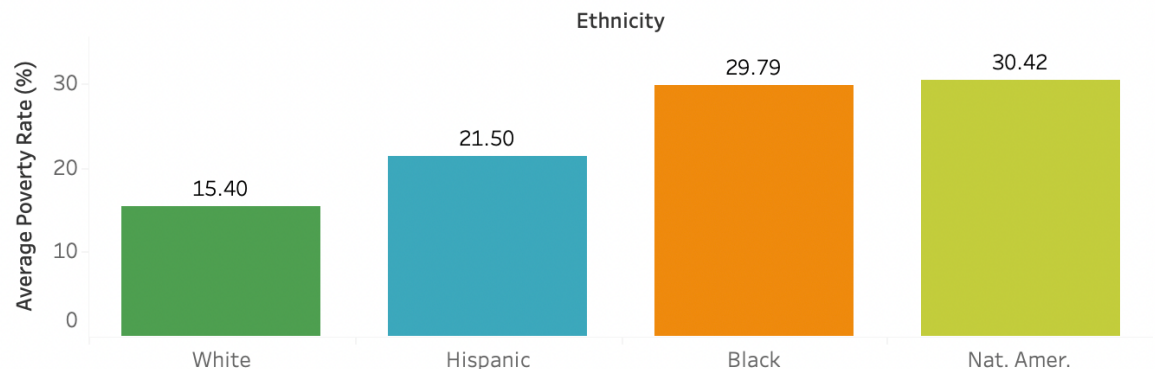
Top Low Income/Low Access Counties



Median Income Vs. Ethnicity



Average Poverty Rate Per Ethnicity



Population

Low-Access Vs. Population

Counties with very low populations tend to have low-access to healthy food, however, many are located in rural areas with nearby local farms.

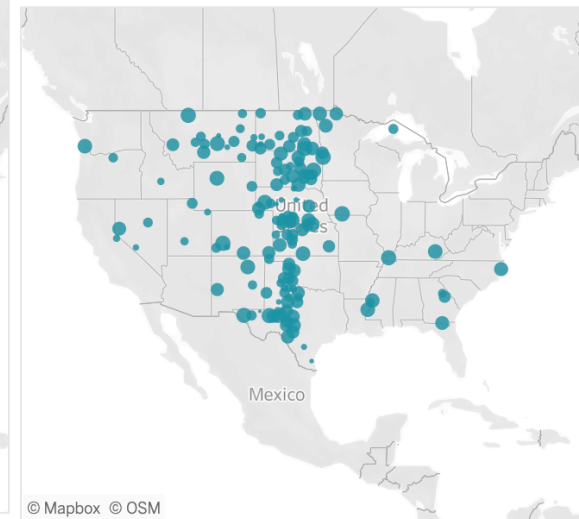
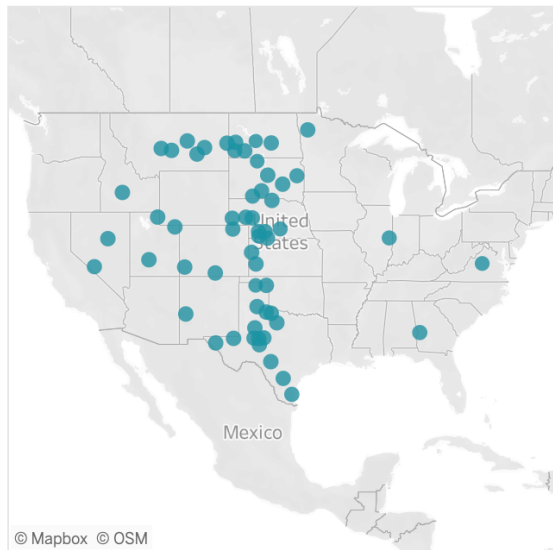
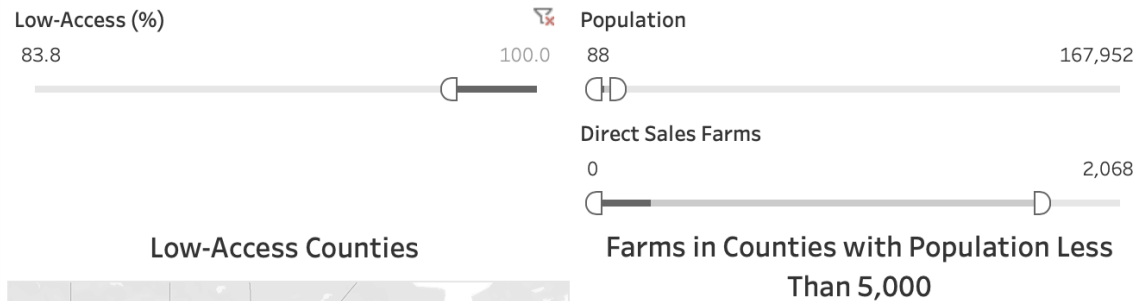
Future Work

City Analysis: Our current work identifies LILA counties. To be most effective, we need to apply this analysis to the city-level to reach communities most at-risk of food insecurity.

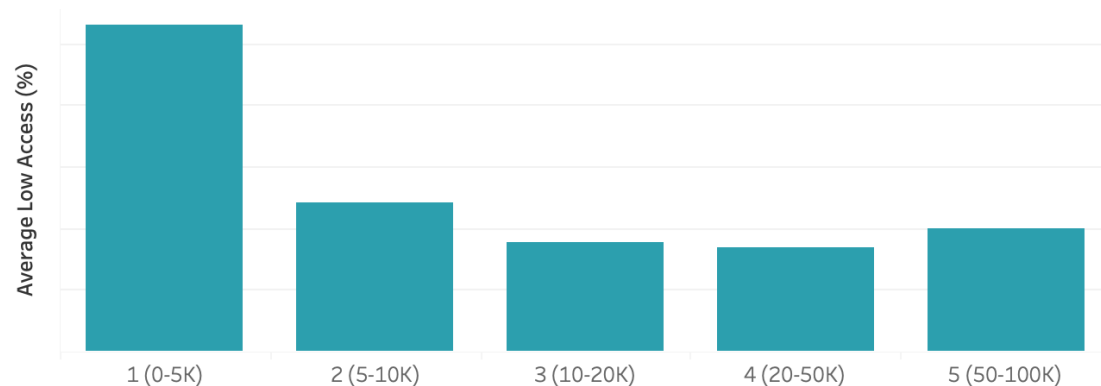
Farm Contracts: Create relationships with local farms to low income & low access populations. These relationships not only provide healthy food access to at-risk populations, but also decrease farm food waste from harvest surpluses.

Transportation: Communities with low access to food are often located in very rural locations. Plans need to be developed to provide the means necessary to transport food to these communities.

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Average Low-Access (%) Vs. County Population



KEY FOCUS AREAS

- High proportion of minorities
- Extremely low population
- Low average household income

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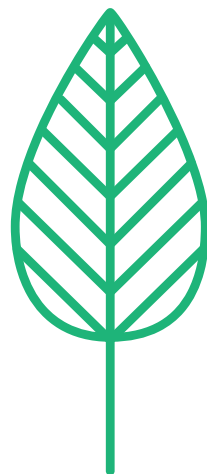




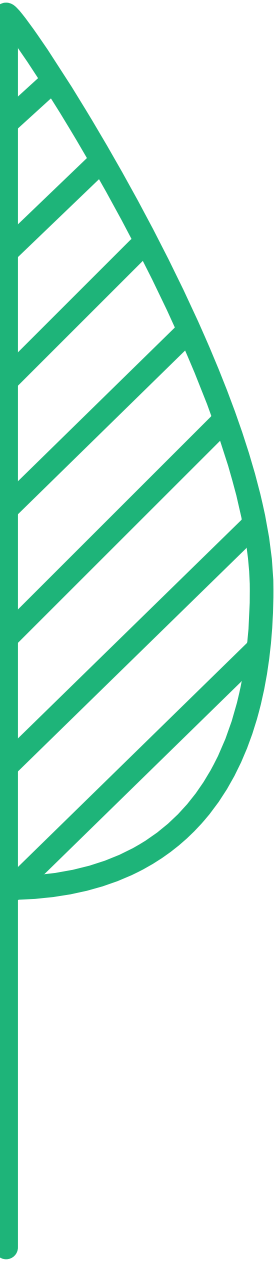
FUTURE WORK

- City-level low income, low access identification
- Local farm opportunity identification & contracts
- Transportation Logistics

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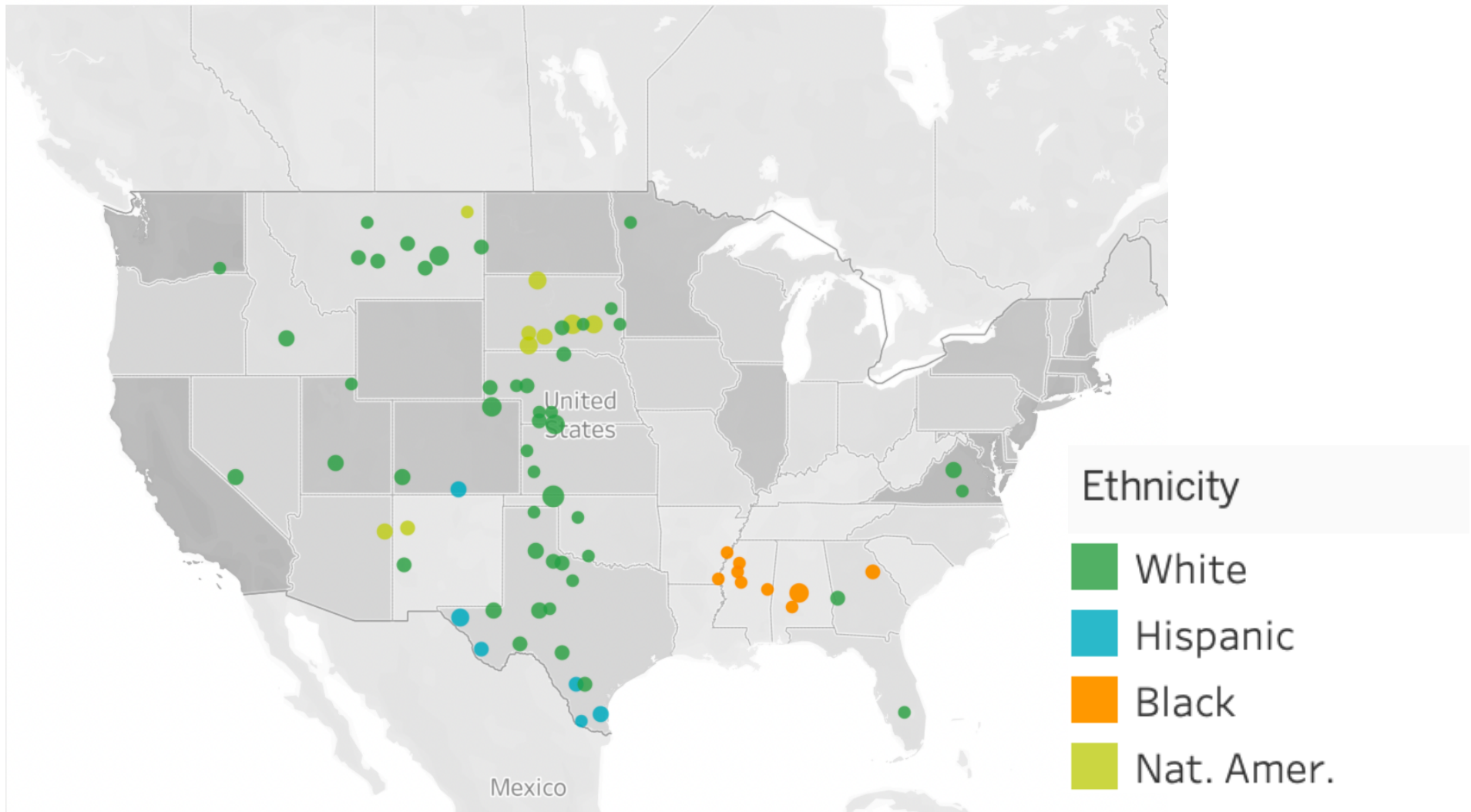
THANK
YOU!



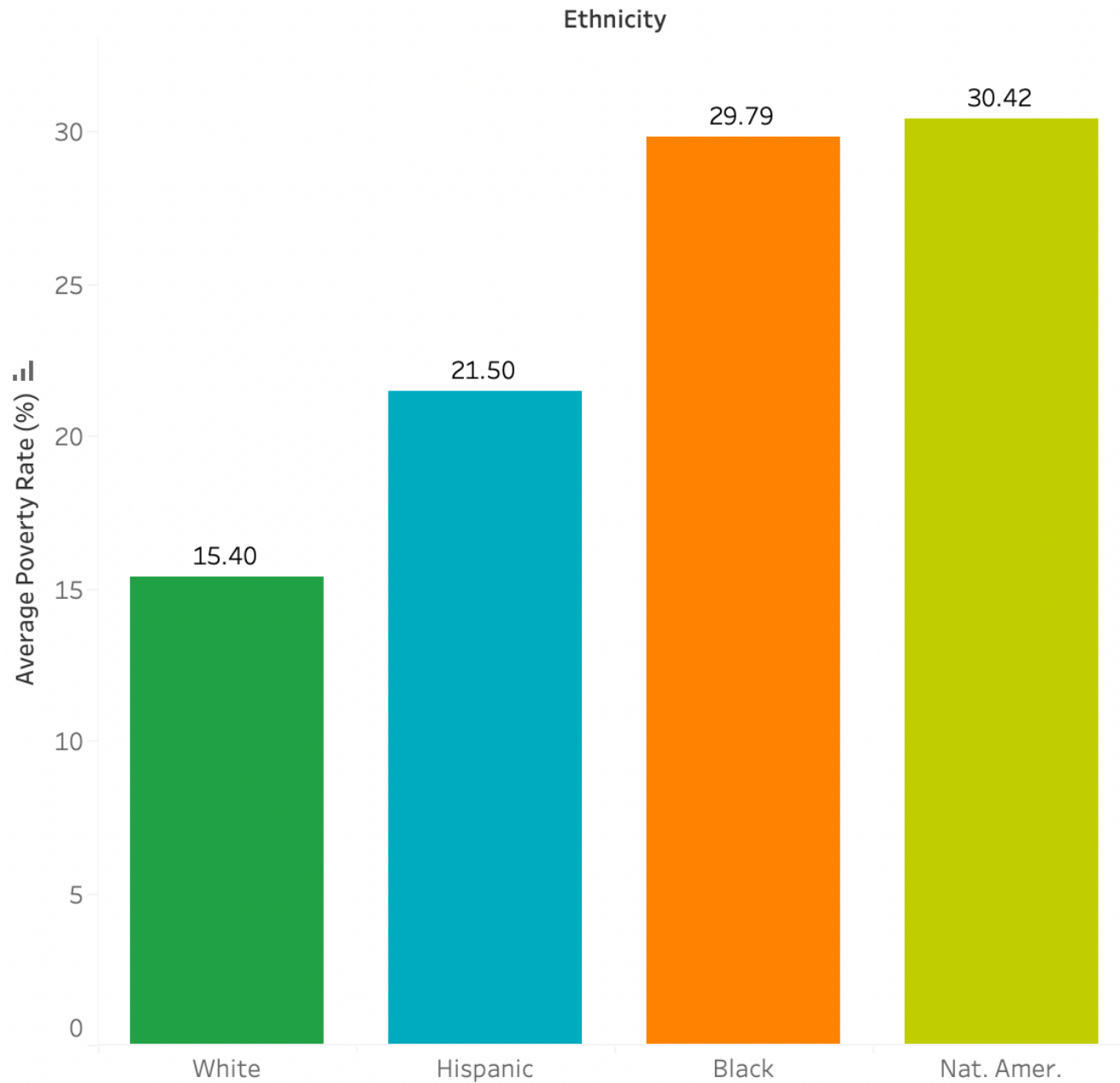
APPENDIX

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Top Low Income/Low Access Counties



Average Poverty Rate Per Ethnicity



Farms in Counties with Population Less Than 5,000

