Increasing Access to Nutritious Foods For Low-Income and Low-Access People

IC Team #22050

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Motivation



How to increase food access for these low-income low-access people while also encouraging their fruit and vegetable intake?

Research Design



1. Identify low-income and low-access population

- 1) Least income
- 2) Farthest distance to a nearby supermarket
- 3) No access to transportation



2. Determine their top obstacles in access using both data and previous research



3. Policy recommendations

Tools

1. Data: 2012 USDA Food Acquisition and Purchase Survey (FoodAPS)

- 2. Data Visualization: Tableau
- 3. Data Cleaning: Python

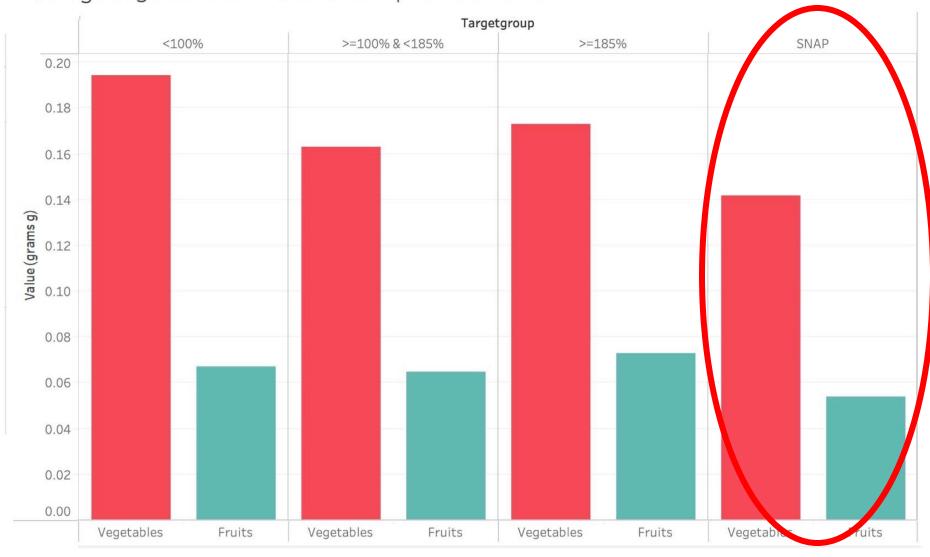




Income Groups with No Transportation Located Farthest from Nearby Supermarket Target roup / Max. Dist Sm >=185% SNAP >=100% & <185% <100% 350 300 250 Number of Households Vehicle Access No Vehicle 200 Yes Vehicle 100 50 0 34.1 miles 1.6 miles 34.0 miles 28.4 miles 32.4 miles 0.6 miles



Average Vegetable vs. Fruit Consumption at Home



Average Meats vs. Dark Green Vegetables Consumption At Home



Obstacles To Access

- 1. Farthest Distance To Nearby Supermarket
- 2. No Transportation Access
- 3. Low Income
- 4. High Prices
- 5. Nutritionally Illiterate

Policy Recommendations



1) Increasing access to supermarkets



2) Incentivizing food delivery services for low-access locations



3) Supporting local food businesses



4) Expanding urban agriculture



5) Increasing efficiency in the perishable food supply chain



6) Partnering with food delivery services to launch a tech education program

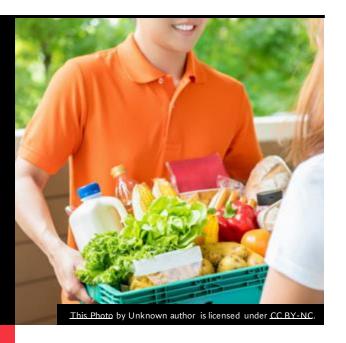


7) Have more food delivery services accept SNAP and WIC

Future Work

We recommend examining access to technology or implementing smartphone delivery applications as an intervention to low food access in this demographic.

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Questions?



References