

Finding and Affording Healthy Food in Rural America Study Results from New Hampshire

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July 22, 2010



Food Deserts

- Geographic areas without food resources
- Distances used in research on food deserts
 - One mile (USDA)
 - Five miles (Carsey)
 - Ten miles (Blanchard and Lyson)



Food Insecurity

Access to adequate food is limited

- By money
- By other resources
- In rural areas this is often TRANSPORTATION



Link to Health

- Food insecurity more likely in food deserts
- Among <u>children</u>, food insecurity linked with
 - More frequent illness
 - More frequent hospitalizations
 - Iron deficiencies
 - Poorer school performance
 - Weaker social skills
 - Overweight and obesity



Nationwide Statistics

- 23.5 million Americans live more than a mile from a supermarket (USDA, 2009)
- 418 rural food desert counties (Morton and Blanchard, 2007)
 - All residents live more than 10 miles from a supermarket
 - 20 percent of all rural counties
- 17 million households (14.6 percent) were food insecure in 2008 (USDA)



Nationwide Statistics for Children

In households with children, 21 percent were food insecure

In rural counties (nonmetropolitan), 22 percent of households with children were food insecure

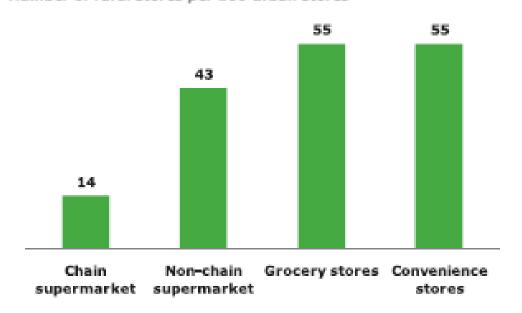
(USDA estimates)



Finding about Rural Food Deserts (Grocery Gap, The Food Trust)

Availability of Food Stores in Rural Areas by Store Type, 2000

Number of rural stores per 100 urban stores



Source: Powell et al., 2007.



Key Findings in New Hampshire

- Grocery stores unevenly distributed
- Deficit in more rural parts of state
- Those same areas have higher rates of obesity, coronary heart disease, and diabetes



Additional Key Findings

- ■3.5% of population resides 5+ miles from a grocery store
- □ Larger percentage in more rural areas

- More than 1 in 10 households experience food insecurity
- Significantly related to income and distance from grocery store

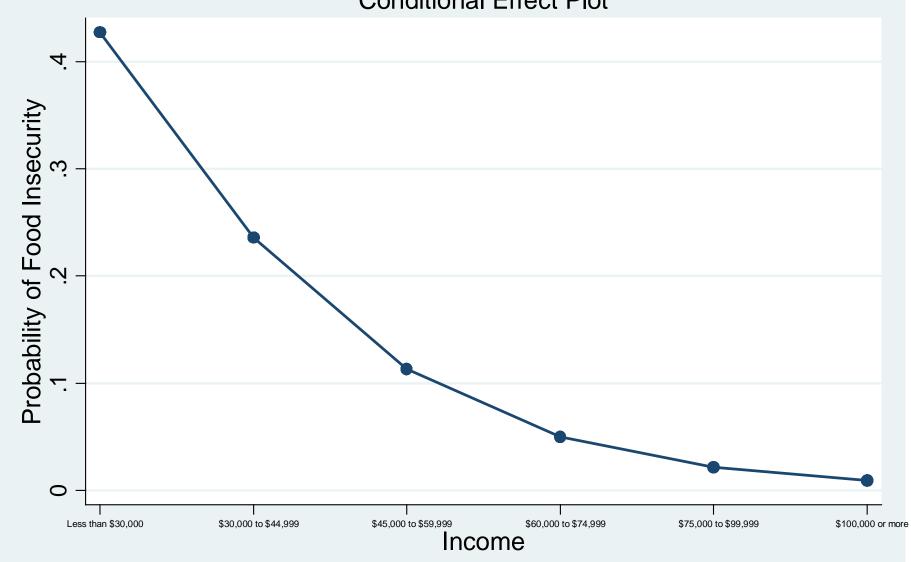


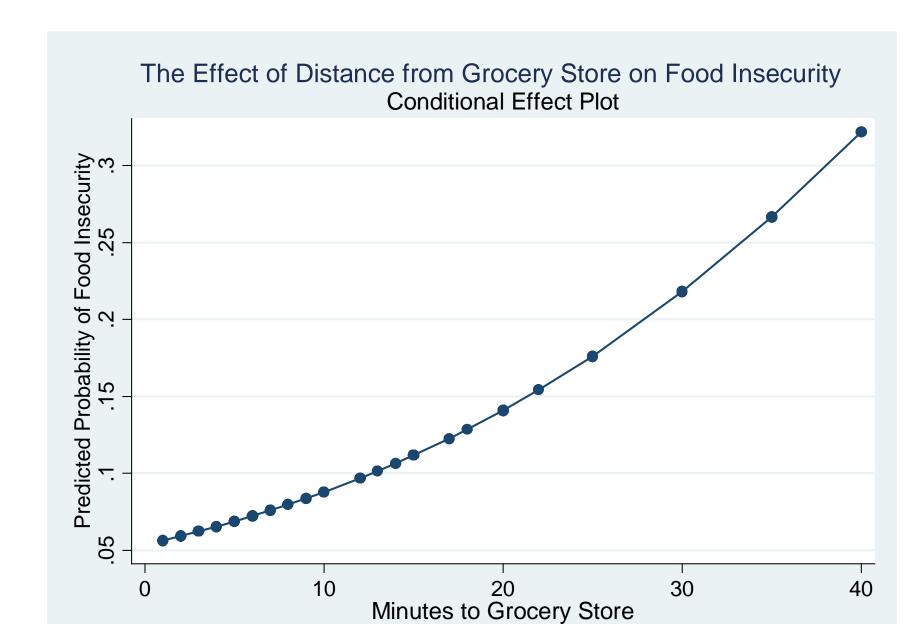
Figure 5 Low Access Areas: Beyond 5-Mile Buffer of Selected Retail Stores Inaccessible Areas Beyond 5-Mile Buffer **Political Boundaries** — State Boundary County Boundary Town Boundary Surface Water Major Water Body Major Routes Interstate **Conservation Lands** White Mountain National Forest Data Sources: Retail food sources data from INFO USA, March 2009. All base layers from NH GRANIT data base, UNH.



The Effect of Income on Food Insecurity







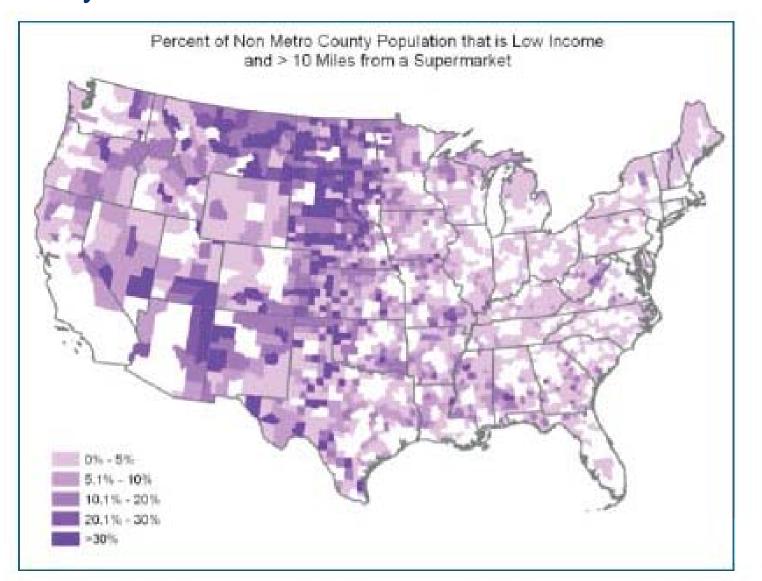


Implications for Rural Areas

- NH is affluent, other rural areas are not so fortunate
- In higher poverty rural areas, food deserts more common
- In higher poverty rural areas, food insecurity more common
- In more rural areas, food deserts more common



White House Task Force on Childhood Obesity, 2009 data, USDA estimates





Conclusions

- Rural families and children are more likely to live in a food desert
- Living in a food desert creates barriers to accessing healthy food
- Living in a food desert is associated with food insecurity
- Both are associated with poorer health outcomes



