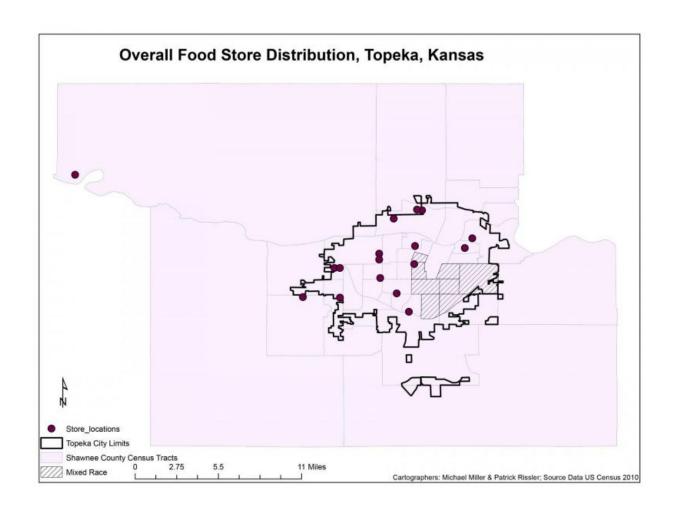


Food availability a problem in smaller urban cities, study finds

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A Kansas State University study found a neighborhood's income and race composition may play a role in food deserts. A map of the overall food stores in Topeka, Kansas, shows an absence of stores in the inner-city neighborhoods. Credit: Kansas State University



Average neighborhood income may play a role in creating food deserts in cities of all sizes, according to a Kansas State University study.

Michael Miller, doctoral student in sociology, Topeka, found food stores are largely unavailable in the most densely populated inner-city, low-income neighborhoods of smaller urban cities. The study, "Food Availability in the Heartland: Exploring the Effects of Neighborhood Racial and Income Composition," is published in *Rural Sociology*. Article co-authors include Kansas State University sociology faculty members Gerad Middendorf and Spencer Wood

"The problems and dynamics happening in large metropolitan areas also are happening in smaller cities like Topeka, Kansas," Miller said. "Innercity neighborhoods are severely lacking in food stores, and race and income seem to be important factors of that."

Miller used U.S. Census tract data to map neighborhoods in Topeka according to racial composition and income. Each tract contained around 3,000 people. Miller found that the geographic size of each tract was smaller in the inner-city areas and larger toward the city limits, suggesting a greater population density in the center of the city. Then he looked at racial composition of the primary head of household and average household income of those tracts.

"The neighborhoods with more racial minorities in the inner-city tracts—inner-city neighborhoods—tended to have lower incomes," Miller said. "Then as you move away from the inner city, we see incomes go up to the middle and high categories, neighborhoods get much wider and as you get to the large tracts on the outskirts, there are high incomes and a very, very high distribution of white households."

After exploring the income and racial composition of Topeka's nearly 130,000 residents, Miller located the food stores, overlaid them on the



map of income and <u>racial composition</u> and found the majority form a horseshoe around the inner-city neighborhoods.

"The very people who need the stores close because they have low income and not much transportation find themselves further away from the stores," Miller said.

According to Miller, many complicated social factors cause food deserts and food insecurity in the U.S. Among the social factors, Miller said, is neighborhood disinvestment or lack of a foreseeable profit in the area.

"Just being around Topeka, you can see pretty clearly where the investment is and where the growth is," Miller said. "Business and commerce are directed away from those inner-city areas."

According to Miller, the solution to this problem is not as simple as dropping a store in the middle of a low-income neighborhood and expecting customers to purchase food there. The store has to appeal to the customers.

"Part of food security is having culturally appropriate foods available," Miller said. "If you open an organic food store in the middle of a low-income neighborhood, people may not go in and buy the food because they are not used to it. Food patterns and buying practices are really engrained in a lot of families."

Miller said infrastructure and planning is another roadblock that can affect access to food stores in inner cities.

"Three miles is not that far to walk, but if you have to cross highways and dangerous neighborhoods where the crime rate is high, that's going to make it more difficult," Miller said.



Miller intended the study to be a preliminary look at how food is distributed and how it shapes our society, neighborhoods and health outcomes so solutions can be explored.

"It is a complicated problem so no one is to blame," Miller said. "I think the solution is dependent on what people think the roles of the city and the community are and what have been the successful interventions to make healthy <u>food</u> more accessible in other cities."

More information: Michael Miller et al. Food Availability in the Heartland: Exploring the Effects of Neighborhood Racial and Income Composition, *Rural Sociology* (2015). DOI: 10.1111/ruso.12063

Provided by Kansas State University

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