Intersection of High Needs Areas, Food Deserts, and Food Swamps in Jefferson County

JCPH GIS Project
August 2nd, 2019
USDA Food Deserts (2015)

• Low-income census tracts
  • 20%+ poverty rate
  • Median family income <= 80% of State / Metropolitan Area AMI
• 500 people in community and / or 33% of the population are
  • more than ½-mile from a supermarket or grocery store (urban)
  • more than 1-mile from a supermarket or grocery store (urban)
  • more than 10-miles from a supermarket or grocery store (rural)
  • more than 20-miles from a supermarket or grocery store (rural)
• Rural threshold reduced to 100 households
Low Income and Low Access at 1 and 10 miles (green)
Low Income and Low Access at ½ and 10 miles (orange)
None shown for 1 and 20 miles

20-mile Drivesheds
1-mile Drivesheds
½-mile Drivesheds
1-mile Drivesheds + Population Density >= 1000 per sqmi
½-mile Drivesheds
+
Population Density
>=
1000 per sqmi
Recent Food Access Data

- 0.5 miles – average distance from carless households to a store
- 2.0 miles – average distance from SNAP households to a store
- 0.9 miles – average distance carless households travel to a store
- 2.9 miles – average distance food-insecure households travel to a store
- 3.2 miles – average distance WIC households travel to a store
- 3.4 miles – average distance SNAP household travel to a store
- 2.2 miles – average distance from household to a store
- 3.8 miles – average distance average households travel to a store
- 2.6 miles – average distance between households and all food establishments

USDA (2015), CDC (2015),
Conclusions

• Based on household behavior, distances less than 4 miles are the most relevant

• In Jefferson County all urban high-needs areas fall within a 4-mile grocery store driveshed (one rural area near Kittredge does not)

• Areas with high densities of poor food options (food swamps) are of concern

• Therefore, high needs areas with higher than average densities of poor food options (22 per sqmi) are of highest concern
4-mile Drivesheds + Highest Needs Areas
Food Swamp Density + Highest Needs Areas

Max Den = 44 retailers per square mile
Food Swamp Density + Highest Needs Areas + 4-mile Drivesheds
Intersection of Food Swamps + Highest Needs Areas + 4-mile Drivesheds = Areas of Highest Concern
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