













demographic factors

Statistics from 2014 US Census data:

- number of housing units
- population size
- median household income
- median age

The analysis follows the City's organizational structure – neighborhoods, instead of census blocks.

Neighborhood shapefiles were requested but not obtained.





results, social analysis

- median household income, range = \$11,444 - 89,568/yr
- weak positive correlation (0.342) btw income and parkland (% total)
- lowest median income (< \$20,000/yr): Downtown, Summit Lake, University Park, West Hill, Cascade Valley, Sherbondy Hill



Image credit: Google Earth



results, social analysis

- population density, range = 540 7,848 indiv/mi²
- weak negative correlation (-0.348) btw population density and parkland
- highest population (> 5,000 indiv/mi²): Highland Square, North Hill, University Park, South Akron







results, ecological analysis

- tree cover, range = 3.0 56.0%
- nine (9) neighborhoods have < 25% tree cover, including 2/4 of the most populous and 3/6 with the *lowest income*: Coventry Crossing, Chapel Hill, Kenmore, *Summit Lake*, Middlebury, East Akron, South Akron, Firestone Park, *University Park*, *Downtown*
- Each neighborhood has an additional 18.2 62.6% of pervious, or undeveloped, land cover that could be converted to trees.
- Size and ownership of undeveloped parcels is under analysis.





Prioritization of Akron neighborhoods for improved preservation

blue = < 25% canopy cover, prioritize tree planting red outline = > 5000 indiv/mi² and < 1% parkland, prioritize new park development



references

Akron Water Supply Bureau. Drinking Water Consumer Confidence Report [online]. 2018 [accessed May 2, 2020]. URL: https://www.akronohio.gov

Centers for Disease Control and Prevention (CDC), National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health. 500 Cities Project Data [online]. 2016 [accessed March 27, 2020]. URL: https://www.cdc.gov/500cities

City of Akron. Neighborhood Profiles [online]. n.d. (accessed March 27, 2020). URL: https://www.akronohio.gov

Google, Inc. Google Earth Pro [application, online]. nd. (accessed April 3, 2020). URL: https://www.google.com/intl/hr/earth/

United States Census Bureau. Profile for Akron, Ohio [online]. 2018 [accessed May 1, 2020]. URL: https://www.census.gov/data.html

USDA Forest Service. iTree Canopy [software, online]. 2006. URL: https://canopy.itreetools.org/