Great Lakes Cities Vulnerability Assessment Tool

Data Sources and Methods, Winter 2017



Methods and Data Sources

This paper describes data collection and decisions made to produce the <u>Great Lakes Cities</u> <u>Vulnerability Assessment Tool</u>.

Indicators of Hardship and Other Metrics

The indicators are from the U.S. Census Bureau's December 2016 release of the American Community Survey (ACS). The data are five-year estimates that represent the socioeconomic conditions during the 2011 to 2015 period.¹

- <u>Families in poverty</u>. Percentage of families in the census tract living below the poverty line. The Census defines a family as a group of two or more people who reside together and are related by birth, marriage, or adoption. The Census uses a set of income thresholds that vary by family size and composition to define who is poor.
- <u>People with disabilities.</u> Percentage of people in the tract estimated to have a disability, based on self-reporting questions in the American Community Survey.
- <u>Housing units that are rentals.</u> Percentage of housing units in the tract that are occupied by renters rather than owners.
- <u>Children under 5.</u> Percentage of people in the tract less than the age of 5.
- <u>People over 65.</u> Percentage of people in the tract over the age of 65.
- <u>People of color</u>. Percentage of people in the tract that self-identified as a race other than "white alone."
- <u>People that have difficulty speaking English.</u> Percentage of people in the tract estimated to have difficulty speaking English based on self-reporting questions in the American Community Survey.

Because ACS data result from a survey, the results fall within a range of possible values. For example, a neighborhood may have between 5 percent and 15 percent of families living in poverty. Your "At-Risk Populations" criteria will act on either the lower or upper estimate depending upon whether you select an "INCLUSIVE" or "RESTRICTIVE" map.

Great Lakes Vulnerability Assessment Tool	
AUGUST 2017 Identify neighborhoods that mee	et socioeconomic vulnerability criteria.
City: Ann Arbor, Ml	Clear Criteria Reset to City Median
Set Criteria: (Default criteria are city-wide medi-	Ann Arbor, MI
INCLUSIVE: Show ell areas that may meet criteria*	
INDICATORS OF HARDSHIP	INCLUSIVE vs. RESTRICTIVE Click here to select how your map responds to the "At-Risk Populations" criteria.
Families in poverty	To understand how this works, picture a neighborhood where the estimated share of families in poverty is between 8% and 12%. What will happen if you set the poverty criteria to > 10%?
1> 0% O US Avg	
People with disabilities	An "INCLUSIVE" map will include the neighborhood since it's possible that more than 10% of families live in poverty (the true value may be as high as 12%).
>15% O US Avg	A "RESTRICTIVE" map will not include that neighborhood since you cannot say with certainty that more than 10% of the families live in poverty (the true value may be as low as 8%).
Housing units that are rentals	
> 696 O US Avg J	
YOUNG AND ELDERLY	
Children under 5 years	
> 0%	27% Ann Arbor

Data Visualization: https://headwaterseconomics.org/economic-development/climate-change/great-lakes-vulnerability-assessment-tool/

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About Headwaters Economics

Headwaters Economics is an independent, nonprofit research group whose mission is to improve community development and land management decisions, https://headwaterseconomics.org/.

Endnotes

¹ U.S. Department of Commerce. 2016. Census Bureau, American Community Survey Office, Washington, D.C.