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Vulnerable Populations During a Disaster

Madison County

Julie N. Zimmerman and Jeff Young, 2025



Kentucky: By The Numbers
<https://kybtn.mgcafe.uky.edu>

Not everyone has access to the same kinds of resources to be able to plan for, respond to, and recover from a disaster. While it can be tempting to see vulnerability and resilience as opposite sides of the same coin, this is not always the case. A community with a large vulnerable population can still have high levels of resilience.

In addition to providing data from the **2023 American Community Survey 5-year estimates**, this issue of Kentucky: By The Numbers includes two maps as a way to visualize county results from the two resources: the Social Vulnerability component of the FEMA National Risk Index (<https://hazards.fema.gov/nri/social-vulnerability>); and the CDC/ATSDR Social Vulnerability index (<https://www.atsdr.cdc.gov/place-health/php/svi/index.html>). On each website, zoom in to see data below the county level.

For additional data, the **Kentucky: By The Numbers data series** includes detailed data compiled for the Statewide Extension Community Needs Assessment as well as other topic-specific issues that contain data for each county and the state. These can be found at <https://kybtn.mgcafe.uky.edu/>.

For counties with small populations and small population groups, the margins of error (indicated by a +/- ___) can be quite large.

*The **margin of error** tells us how precise the estimate is by indicating the **range within which the estimate most likely falls**.*

For help in understanding the margin of error, see the brief Kentucky: By The Numbers publication "[And Now for the Grain of Salt](#)."

	Estimate	Margin of Error
Households with one or more persons under 18 years old	10,824	(+/- 585)
Households with one or more people 65 years and over	10,028	(+/- 308)
Number of grandparents living with and responsible for grandchildren	717	(+/- 201)
Population with a disability (noninstitutionalized)	14,706	(+/- 803)
Poverty rate of families with related children under 18 who are related to the householder	19.2%	(+/- 3.4)
Poverty rate of people ages 65 and over	9.0%	(+/- 2.3)
Percent of population 16 years and over who worked full-time, year-round in past 12 months who were below poverty	3.9%	(+/- 1.1)
Number of occupied housing units that are mobile homes, etc	2,552	(+/- 342)
Percent of occupied housing units that are mobile homes, etc	6.9%	(+/- 0.9)
Number of households that do not have a computer, tablet, etc.	2,011	(+/- 362)
Number of occupied housing units (households) with no vehicle	1,601	(+/- 366)

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To see the same data on the maps below the county level, on each website, just zoom in...

Social Vulnerability Index (ATSDR/CDC)

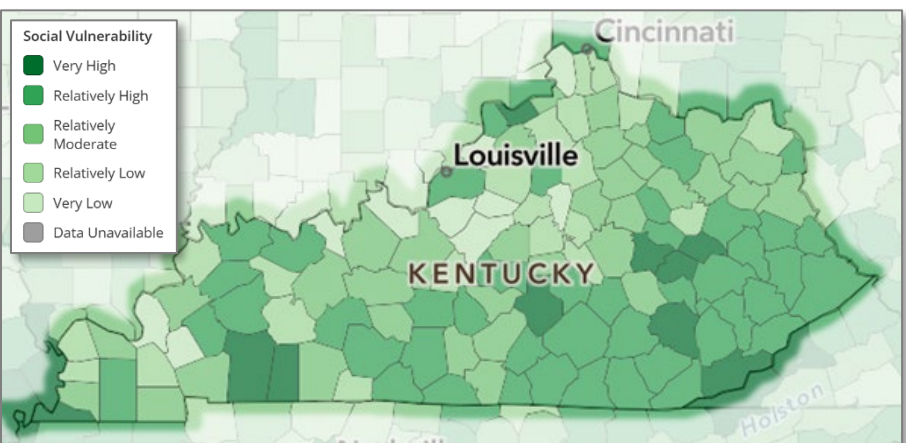


<https://www.atsdr.cdc.gov/place-health/php/svi/index.html>

The Social Vulnerability Index uses socio-economic and demographic data from the American Community Survey 5-year estimates to identify the extent to which local populations include those who could face difficulties during or after a disaster. The index uses 16 variables including poverty and population ages 65 and over. The data are combined into a single score and grouped into 4 categories.

The Social Vulnerability component of the National Risk Index defines social vulnerability “as the susceptibility of social groups to the adverse impacts” to events such as disasters. Building off of data from the CDC/ATSDR Social Vulnerability Index to generate its own scores this component also uses a different number of categories ranging from “very low” to “very high.”

Social Vulnerability (FEMA National Risk Index)



<https://hazards.fema.gov/nri/social-vulnerability>

Kentucky: By The Numbers is an Extension program in the Department of Community and Leadership Development at the University of Kentucky. For more information contact your local Cooperative Extension office or Dr. Julie N. Zimmerman, Professor of Rural Sociology, Department of Community and Leadership Development, 500 Garrigus Building, University of Kentucky, Lexington, KY 40546-0215. email: jzimm@uky.edu. The entire series is online at <https://kybtn.mgcafe.uky.edu>

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accommodated
with prior notification.