

# National Risk Index



March 23, 2023

## Worth County, Georgia

# Summary

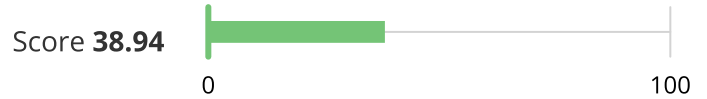
Risk Index is **Relatively Low**



Expected Annual Loss is **Relatively Low**



Social Vulnerability is **Relatively Moderate**



Community Resilience is **Relatively Low**

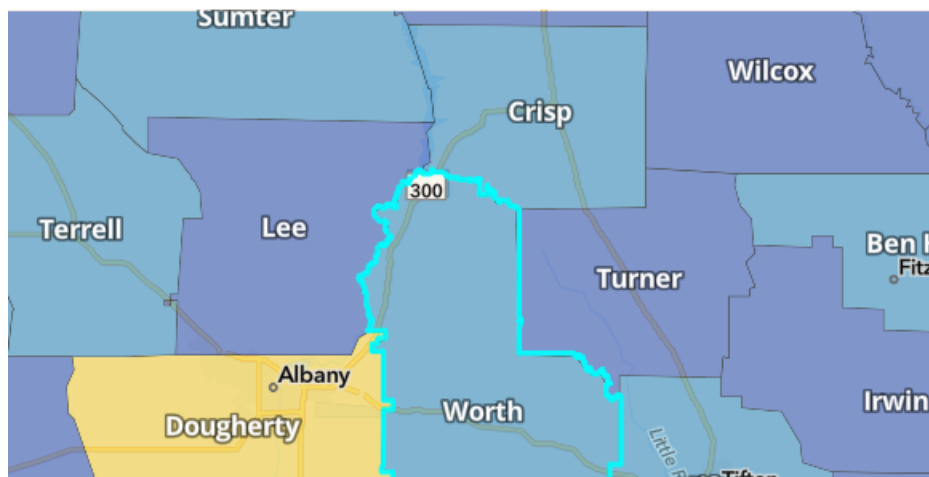


**While reviewing this report, keep in mind that low risk is driven by lower loss due to natural hazards, lower social vulnerability, and higher community resilience.**

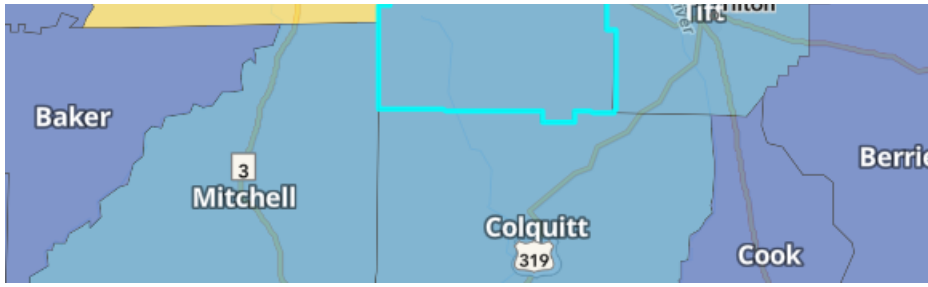
For more information about the National Risk Index, its data, and how to interpret the information it provides, please review the **About the National Risk Index** and **How to Take Action** sections at the end of this report. Or, visit the National Risk Index website at [hazards.fema.gov/nri/learn-more](https://hazards.fema.gov/nri/learn-more) to access supporting documentation and links.

## Risk Index

The Risk Index rating is **Relatively Low** for **Worth County, GA** when compared to the rest of the U.S.



Score **11.22**



**67.3%** of U.S. counties have a lower Risk Index

**83.6%** of counties in Georgia have a lower Risk Index

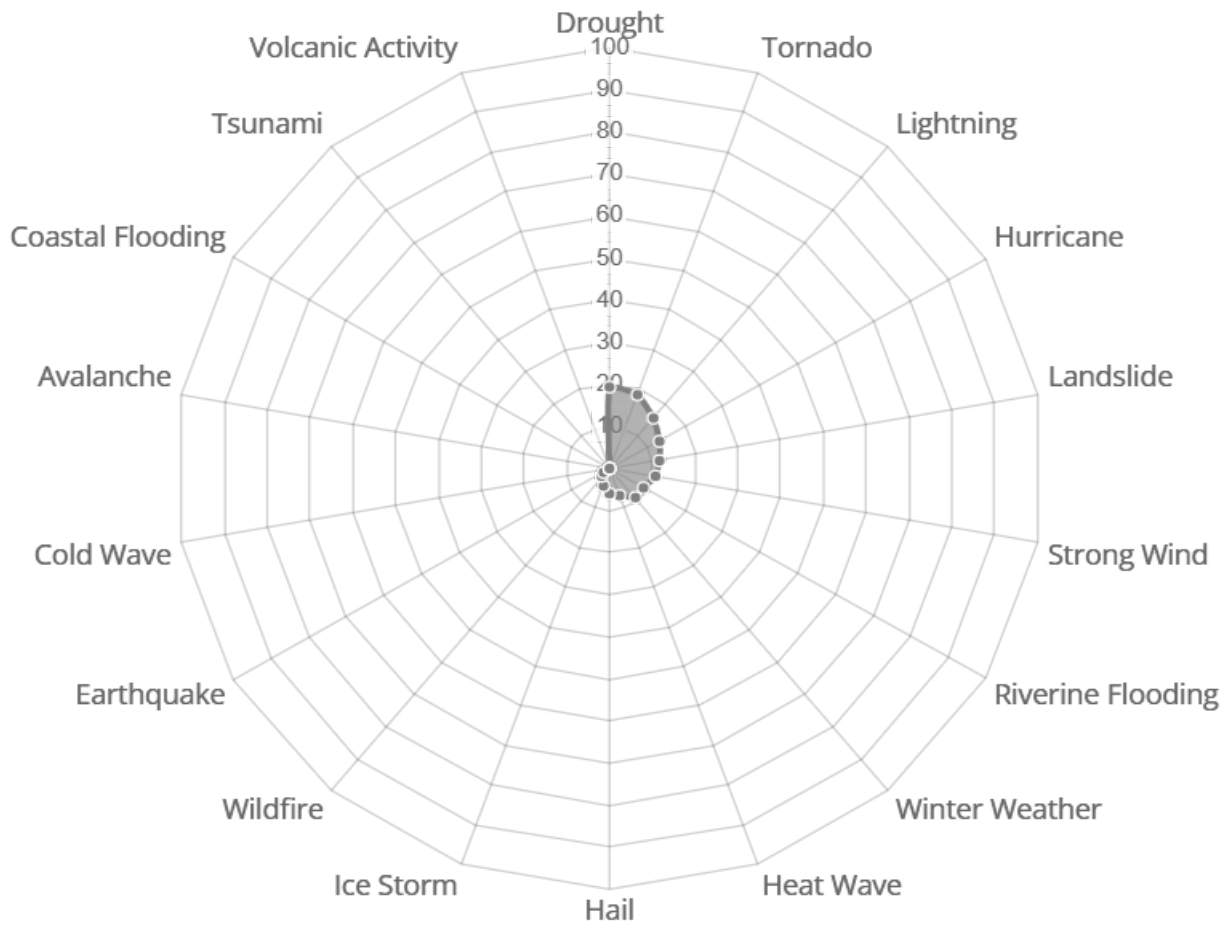
### Risk Index Legend

- Very High
- Relatively High
- Relatively Moderate
- Relatively Low
- Very Low
- No Rating
- Not Applicable
- Insufficient Data

# Hazard Type Risk Index

Hazard type Risk Index scores are calculated using data for only a single hazard type, and reflect a community's relative risk for only that hazard type.

Hazard Type	Risk Index Rating	Risk Index Score		
<b>Avalanche</b>	Not Applicable	--		
<b>Coastal Flooding</b>	Not Applicable	--		
<b>Cold Wave</b>	No Rating	0.00	0	100
<b>Drought</b>	Relatively Moderate	19.52	0	100
<b>Earthquake</b>	Very Low	1.52	0	100
<b>Hail</b>	Very Low	5.96	0	100
<b>Heat Wave</b>	Relatively Low	6.97	0	100
<b>Hurricane</b>	Relatively Moderate	13.21	0	100
<b>Ice Storm</b>	Very Low	4.17	0	100
<b>Landslide</b>	Relatively Low	11.53	0	100
<b>Lightning</b>	Relatively Low	15.42	0	100
<b>Riverine Flooding</b>	Relatively Low	9.05	0	100
<b>Strong Wind</b>	Relatively Low	10.93	0	100
<b>Tornado</b>	Relatively Moderate	18.83	0	100
<b>Tsunami</b>	Not Applicable	--		
<b>Volcanic Activity</b>	Not Applicable	--		
<b>Wildfire</b>	Very Low	2.64	0	100
<b>Winter Weather</b>	Relatively Low	9.01	0	100



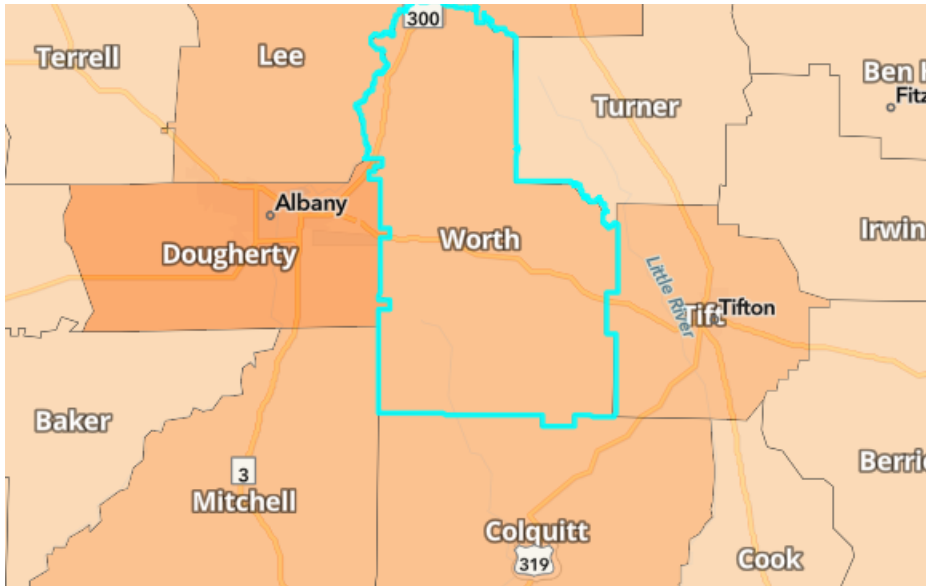
The chart above demonstrates the relative distribution of hazard type Risk Index scores for **Worth County, GA**. Risk Index scores are plotted for each hazard type included in the National Risk Index. Higher relative risk corresponds to larger colored areas inside a given hazard type chart slice.

## Expected Annual Loss

In **Worth County, GA**, expected loss each year due to natural hazards is **Relatively Low** when compared to the rest of the U.S.



Score	<b>13.12</b>
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61.4% of U.S. counties have a lower Expected Annual Loss

77.3% of counties in Georgia have a lower Expected Annual Loss

Expected Annual Loss Legend


- Very High
- Relatively High
- Relatively Moderate
- Relatively Low
- Very Low
- No Expected Annual Losses
- Not Applicable
- Insufficient Data

<b>Composite Expected Annual Loss</b>		<b>\$4,529,527.64</b>	
Building Value	<b>\$820,424.22</b>	Population	<b>0.14 fatalities</b>
Population Equivalence	<b>\$1,070,143.52</b>	Agriculture Value	<b>\$2,638,959.90</b>

# Expected Annual Loss for Hazard Types

Expected Annual Loss scores for hazard types are calculated using data for only a single hazard type, and reflect a community's relative expected annual loss for only that hazard type. **14 of 18** hazard types contribute to the expected annual loss for **Worth County, GA**.

Hazard Type	Expected Annual Loss Rating	Expected Annual Loss Score
<b>Avalanche</b>	Not Applicable	--
<b>Coastal Flooding</b>	Not Applicable	--
<b>Cold Wave</b>	No Expected Annual Losses	0.00
<b>Drought</b>	Relatively Moderate	18.78
<b>Earthquake</b>	Very Low	1.78
<b>Hail</b>	Very Low	6.53
<b>Heat Wave</b>	Relatively Low	7.79
<b>Hurricane</b>	Relatively Moderate	13.29
<b>Ice Storm</b>	Very Low	5.43
<b>Landslide</b>	Relatively Low	14.78
<b>Lightning</b>	Relatively Moderate	23.24
<b>Riverine Flooding</b>	Relatively Low	9.11
<b>Strong Wind</b>	Relatively Low	18.98
<b>Tornado</b>	Relatively Moderate	18.96
<b>Tsunami</b>	Not Applicable	--
<b>Volcanic Activity</b>	Not Applicable	--
<b>Wildfire</b>	Very Low	2.66

Hazard Type	Expected Annual Loss Rating	Expected Annual Loss Score	
<b>Winter Weather</b>	Relatively Low	11.30	0  100



## Expected Annual Loss Values

Hazard Type	Total	Building Value	Population Equivalence	Population	Agriculture Value
<b>Avalanche</b>	--	--	--	--	--
<b>Coastal Flooding</b>	--	--	--	--	--
<b>Cold Wave</b>	\$0	\$0	\$0	0.00	\$0
<b>Drought</b>	\$1,615,050	n/a	n/a	n/a	\$1,615,050
<b>Earthquake</b>	\$11,663	\$11,015	\$648	0.00	n/a
<b>Hail</b>	\$18,650	\$9,977	\$7,805	0.00	\$868
<b>Heat Wave</b>	\$33,134	\$0	\$33,030	0.00	\$103
<b>Hurricane</b>	\$1,226,341	\$196,280	\$16,552	0.00	\$1,013,509
<b>Ice Storm</b>	\$1,762	\$750	\$1,012	0.00	n/a
<b>Landslide</b>	\$28,080	\$1,004	\$27,076	0.00	n/a
<b>Lightning</b>	\$119,034	\$9,098	\$109,935	0.01	n/a
<b>Riverine Flooding</b>	\$379,326	\$329,832	\$42,955	0.01	\$6,540
<b>Strong Wind</b>	\$122,696	\$69,167	\$53,477	0.01	\$53
<b>Tornado</b>	\$961,544	\$188,438	\$770,415	0.10	\$2,691
<b>Tsunami</b>	--	--	--	--	--
<b>Volcanic Activity</b>	--	--	--	--	--
<b>Wildfire</b>	\$2,967	\$2,499	\$463	0.00	\$5
<b>Winter Weather</b>	\$9,281	\$2,365	\$6,776	0.00	\$141

## Exposure Values

Hazard Type	Total	Building Value	Population Equivalence	Population	Agriculture Value
<b>Avalanche</b>	--	--	--	--	--
<b>Coastal Flooding</b>	--	--	--	--	--
<b>Cold Wave</b>	\$0	\$0	\$0	0.00	\$0
<b>Drought</b>	\$100,784,964	n/a	n/a	n/a	\$100,784,964
<b>Earthquake</b>	\$166,384,506,000	\$1,624,106,000	\$164,760,400,000	21,679.00	n/a
<b>Hail</b>	\$166,488,790,000	\$1,624,106,000	\$164,760,400,000	21,679.00	\$104,284,000
<b>Heat Wave</b>	\$166,488,780,098	\$1,624,105,962	\$164,760,390,136	21,679.00	\$104,284,000
<b>Hurricane</b>	\$166,356,421,038	\$1,622,148,145	\$164,629,988,893	21,661.84	\$104,284,000
<b>Ice Storm</b>	\$164,945,002,629	\$1,611,378,845	\$163,333,623,784	21,491.27	n/a
<b>Landslide</b>	\$59,270,745,207	\$543,668,432	\$58,727,076,775	7,727.25	n/a
<b>Lightning</b>	\$166,384,506,000	\$1,624,106,000	\$164,760,400,000	21,679.00	n/a
<b>Riverine Flooding</b>	\$6,839,323,690	\$66,771,034	\$6,770,976,898	890.92	\$1,575,757
<b>Strong Wind</b>	\$166,488,790,000	\$1,624,106,000	\$164,760,400,000	21,679.00	\$104,284,000
<b>Tornado</b>	\$166,488,790,000	\$1,624,106,000	\$164,760,400,000	21,679.00	\$104,284,000
<b>Tsunami</b>	--	--	--	--	--
<b>Volcanic Activity</b>	--	--	--	--	--
<b>Wildfire</b>	\$9,981,083,738	\$88,857,487	\$9,885,851,143	1,300.77	\$6,375,107
<b>Winter Weather</b>	\$166,488,780,098	\$1,624,105,962	\$164,760,390,136	21,679.00	\$104,284,000

## Annualized Frequency Values

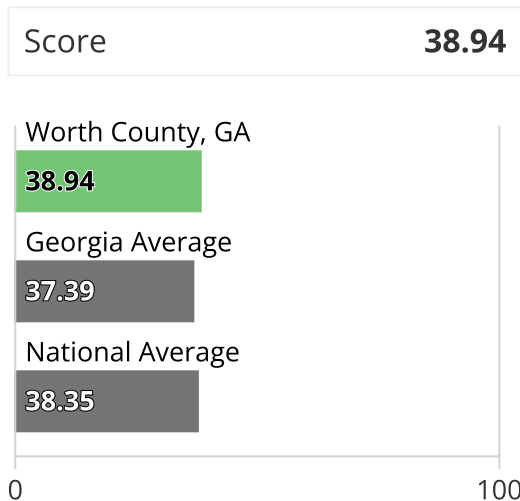
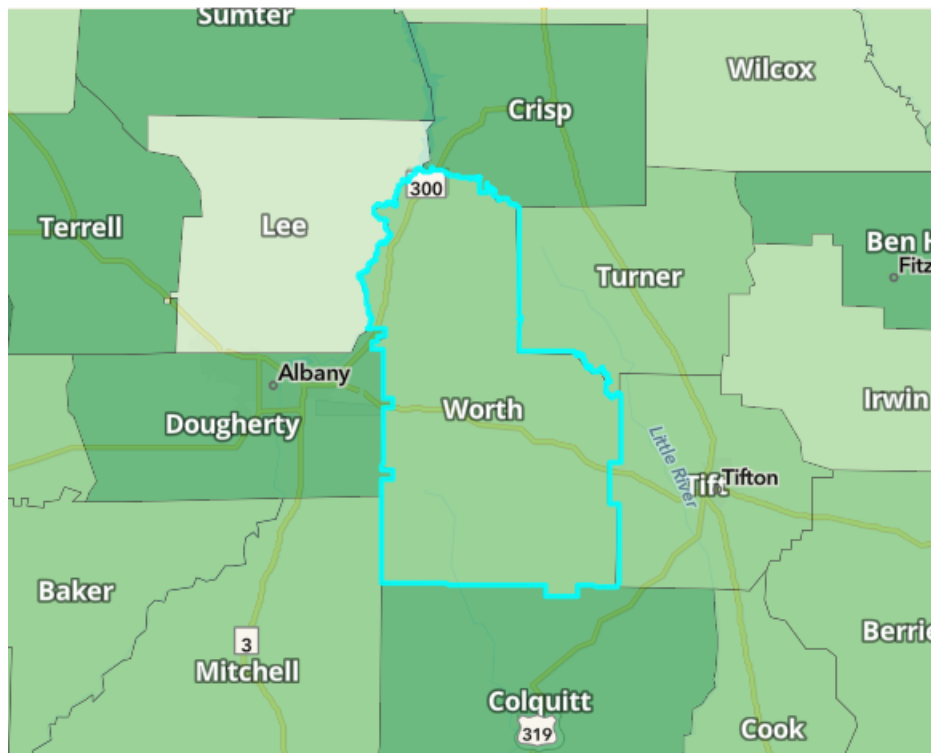
Hazard Type	Annualized Frequency	Events on Record	Period of Record
<b>Avalanche</b>	--	--	--
<b>Coastal Flooding</b>	--	--	--
<b>Cold Wave</b>	0 events per year	0	2005-2017 (12 years)
<b>Drought</b>	38.4 events per year	812	2000-2017 (18 years)
<b>Earthquake</b>	0.038% chance per year	n/a	2017 dataset
<b>Hail</b>	1.6 events per year	51	1986-2017 (32 years)
<b>Heat Wave</b>	0.2 events per year	2	2005-2017 (12 years)
<b>Hurricane</b>	0.2 events per year	25	East 1851-2017 (167 years) / West 1949-2017 (69 years)
<b>Ice Storm</b>	0.2 events per year	12	1946-2014 (67 years)
<b>Landslide</b>	0 events per year	0	2010-2019 (10 years)
<b>Lightning</b>	84.8 events per year	1,866	1991-2012 (22 years)
<b>Riverine Flooding</b>	0.5 events per year	13	1996-2019 (24 years)
<b>Strong Wind</b>	1.4 events per year	47	1986-2017 (32 years)
<b>Tornado</b>	0.3 events per year	21	1986-2019 (34 years)
<b>Tsunami</b>	--	--	--
<b>Volcanic Activity</b>	--	--	--
<b>Wildfire</b>	0.005% chance per year	n/a	2016 dataset
<b>Winter Weather</b>	0.3 events per year	4	2005-2017 (12 years)

## Historic Loss Ratios

Hazard Type	Overall Rating	Building Value	Population	Agriculture Value
<b>Avalanche</b>	--	--	--	--
<b>Coastal Flooding</b>	--	--	--	--
<b>Cold Wave</b>	No Rating	\$5.25 per \$10M	3.83 per 10M	\$9.12 per \$1K
<b>Drought</b>	Very Low	n/a	n/a	\$4.21 per \$10K
<b>Earthquake</b>	Very Low	\$1.68 per \$100	1.40 per 10K	n/a
<b>Hail</b>	Very Low	\$4.09 per \$1M	3.15 per 100M	\$5.31 per \$1M
<b>Heat Wave</b>	Very Low	\$2.77 per \$10B	1.22 per 1M	\$6.01 per \$1M
<b>Hurricane</b>	Relatively Low	\$7.89 per \$10K	6.56 per 10M	\$6.43 per \$100
<b>Ice Storm</b>	Very Low	\$3.08 per \$1M	4.10 per 100M	n/a
<b>Landslide</b>	Very Low	\$1.85 per \$10K	4.61 per 100K	n/a
<b>Lightning</b>	Relatively Low	\$6.61 per \$100M	7.82 per 1B	n/a
<b>Riverine Flooding</b>	Very Low	\$9.12 per \$1K	1.17 per 100K	\$7.66 per \$1K
<b>Strong Wind</b>	Very Low	\$2.88 per \$100K	2.20 per 10M	\$3.48 per \$10M
<b>Tornado</b>	Very Low	\$3.85 per \$10K	1.55 per 100K	\$8.56 per \$100K
<b>Tsunami</b>	--	--	--	--
<b>Volcanic Activity</b>	--	--	--	--
<b>Wildfire</b>	Very Low	\$4.00 per \$10	6.72 per 10K	\$1.36 per \$100
<b>Winter Weather</b>	Very Low	\$4.42 per \$1M	1.25 per 10M	\$4.09 per \$1M

## Social Vulnerability

Social groups in **Worth County, GA** have a **Relatively Moderate** susceptibility to the adverse impacts of natural hazards when compared to the rest of the U.S.



**52.9%** of U.S. counties have a lower Social Vulnerability

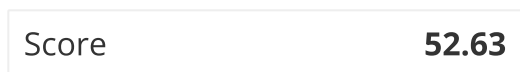
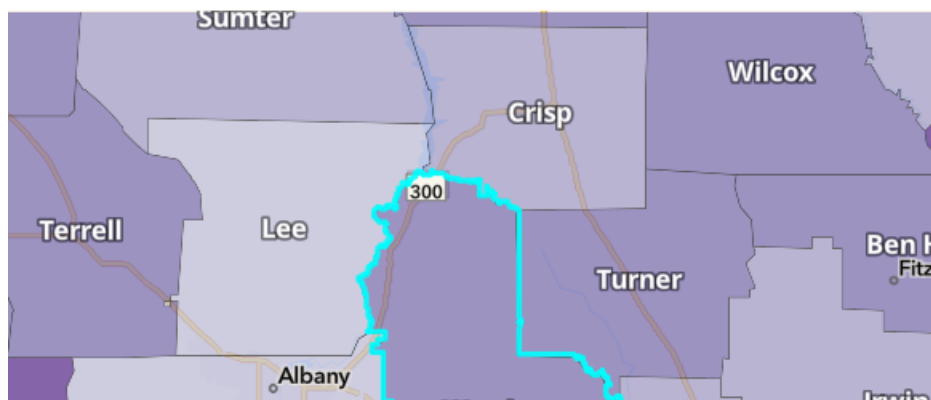
**54.0%** of counties in Georgia have a lower Social Vulnerability

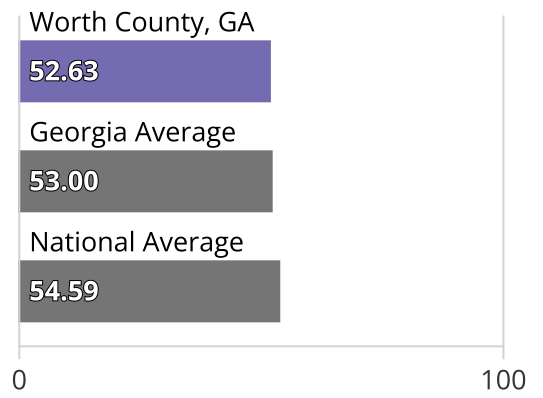
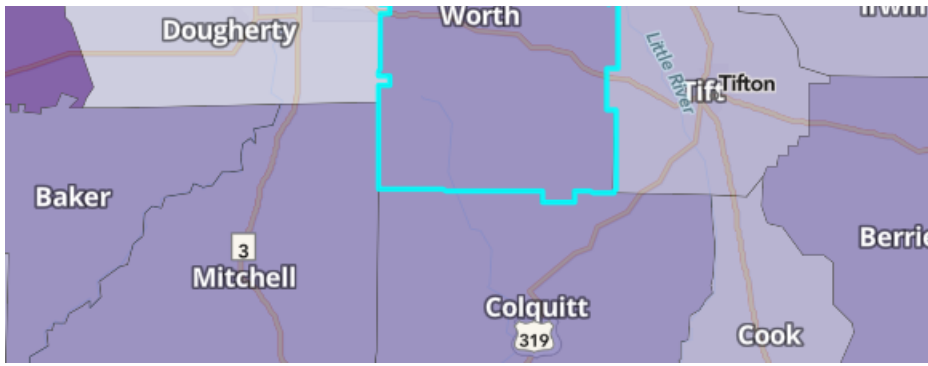
### Social Vulnerability Legend

- Very High
- Relatively High
- Relatively Moderate
- Relatively Low
- Very Low
- Data Unavailable

## Community Resilience

Communities in **Worth County, GA** have a **Relatively Low** ability to prepare for anticipated natural hazards, adapt to changing conditions, and withstand and recover rapidly from disruptions when compared to the rest of the U.S.





**75.3%** of U.S. counties have a higher Community Resilience

**62.9%** of counties in Georgia have a higher Community Resilience

**Community Resilience Legend**

Very High
  Relatively High
  Relatively Moderate
  Relatively Low
  Very Low

Data Unavailable

## About the National Risk Index

The National Risk Index is a dataset and online tool to help illustrate the United States communities most at risk for 18 natural hazards: Avalanche, Coastal Flooding, Cold Wave, Drought, Earthquake, Hail, Heat Wave, Hurricane, Ice Storm, Landslide, Lightning, Riverine Flooding, Strong Wind, Tornado, Tsunami, Volcanic Activity, Wildfire, and Winter Weather.

The National Risk Index leverages available source data for Expected Annual Loss due to these 18 hazard types, Social Vulnerability, and Community Resilience to develop a baseline relative risk measurement for each United States county and Census tract. These measurements are calculated using average past conditions, but they cannot be used to predict future outcomes for a community. The National Risk Index is intended to fill gaps in available data and analyses to better inform federal, state, local, tribal, and territorial decision makers as they develop risk reduction strategies.

Explore the National Risk Index Map at [hazards.fema.gov/nri/map](https://hazards.fema.gov/nri/map).

Visit the National Risk Index website at [hazards.fema.gov/nri/learn-more](https://hazards.fema.gov/nri/learn-more) to access supporting documentation and links.

## Calculating the Risk Index

Risk Index scores are calculated using an equation that combines scores for Expected Annual Loss due to natural hazards, Social Vulnerability and Community Resilience:

$$\text{Risk Index} = \text{Expected Annual Loss} \times \text{Social Vulnerability} \div \text{Community Resilience}$$

Risk Index scores are presented as a composite score for all 18 hazard types, as well as individual scores for each hazard type.

For more information, visit [hazards.fema.gov/nri/determining-risk](https://hazards.fema.gov/nri/determining-risk).

## Calculating Expected Annual Loss

Expected Annual Loss scores are calculated using an equation that combines values for exposure, annualized frequency, and historic loss ratios for 18 hazard types:

$$\text{Expected Annual Loss} = \text{Exposure} \times \text{Annualized Frequency} \times \text{Historic Loss Ratio}$$

Expected Annual Loss scores are presented as a composite score for all 18 hazard types, as well as individual scores for each hazard type.

For more information, visit [hazards.fema.gov/nri/expected-annual-loss](https://hazards.fema.gov/nri/expected-annual-loss).

## Calculating Social Vulnerability

Social Vulnerability is measured using the Social Vulnerability Index (SoVI) published by the University of South Carolina's Hazards and Vulnerability Research Institute (HVRI).

For more information, visit [hazards.fema.gov/nri/social-vulnerability](https://hazards.fema.gov/nri/social-vulnerability).

## Calculating Community Resilience

Community Resilience is measured using the Baseline Resilience Indicators for Communities (HVRI BRIC) published by the University of South Carolina's Hazards and Vulnerability Research Institute (HVRI).

For more information, visit [hazards.fema.gov/nri/community-resilience](https://hazards.fema.gov/nri/community-resilience).

## How to Take Action

There are many ways to reduce natural hazard risk through mitigation. Communities with high National Risk Index scores can take action to reduce risk by decreasing Expected Annual Loss due to natural hazards, decreasing Social Vulnerability, and increasing Community Resilience.

For information about how to take action and reduce your risk, visit [hazards.fema.gov/nri/take-action](https://hazards.fema.gov/nri/take-action).



# Disclaimer

The National Risk Index (the Risk Index or the Index) and its associated data are meant for planning purposes only. This tool was created for broad nationwide comparisons and is not a substitute for localized risk assessment analysis. Nationwide datasets used as inputs for the National Risk Index are, in many cases, not as accurate as available local data. Users with access to local data for each National Risk Index risk factor should consider substituting the Risk Index data with local data to recalculate a more accurate risk index. If you decide to download the National Risk Index data and substitute it with local data, you assume responsibility for the accuracy of the data and any resulting data index. Please visit the [Contact Us](#) page if you would like to discuss this process further.

The methodology used by the National Risk Index has been reviewed by subject matter experts in the fields of natural hazard risk research, risk analysis, mitigation planning, and emergency management. The processing methods used to create the National Risk Index have produced results similar to those from other natural hazard risk analyses conducted on a smaller scale. The breadth and combination of geographic information systems (GIS) and data processing techniques leveraged by the National Risk Index enable it to incorporate multiple hazard types and risk factors, manage its nationwide scope, and capture what might have been missed using other methods.

The National Risk Index does not consider the intricate economic and physical interdependencies that exist across geographic regions. Keep in mind that hazard impacts in surrounding counties or Census tracts can cause indirect losses in your community regardless of your community's risk profile.

Nationwide data available for some risk factors are rudimentary at this time. The National Risk Index will be continuously updated as new data become available and improved methodologies are identified.

The National Risk Index Contact Us page is available at [hazards.fema.gov/nri/contact-us](https://hazards.fema.gov/nri/contact-us).