

National Risk Index - Metadata

Tags National Risk Index, NRI, The National Risk Index, The NRI, Flood Risk, Risk Assessment, Natural Hazard Risk, Planning, Mitigation, December 2025 Release

Summary

The National Risk Index contains county and Census tract-level data for the Risk Index, Expected Annual Loss, Social Vulnerability, and Community Resilience. The National Risk Index data helps to illustrate the communities most at risk for 18 natural hazards across the United States and territories.

Description

The National Risk Index data helps to illustrate the communities most at risk for 18 natural hazards across the United States and territories: avalanche, coastal flooding, cold wave, drought, earthquake, hail, heat wave, hurricane, ice storm, inland flooding, landslide, lightning, strong wind, tornado, tsunami, volcanic activity, wildfire, and winter weather. The National Risk Index data provides Risk Index values, scores and ratings based on data for Expected Annual Loss due to natural hazards, Social Vulnerability, and Community Resilience. Separate values, scores and ratings are also provided for Expected Annual Loss, Social Vulnerability, and Community Resilience. For the Risk Index and Expected Annual Loss, values, scores and ratings can be viewed as a composite score for all hazards or individually for each of the 18 hazard types.

Sources for Expected Annual Loss data include:

- Arizona State University's Center for Emergency Management and Homeland Security
- California Department of Conservation – Geological Survey
- Colorado Avalanche Information Center
- Snow Data Assimilation System
- National Water and Climate Center
- Snow Survey and Water Supply Forecasting Program
- Snow Telemetry Network
- Northern Hemisphere 0.25 Degree Resolution Machine Learning Snow Depth Data
- CoreLogic's Flood Services
- Federal Emergency Management Agency
- National Flood Insurance Program
- FEMA Natural Hazards Risk Assessment Program
- Humanitarian Data Exchange
- Iowa State University's Iowa Environmental Mesonet
- Multi-Resolution Land Characteristics Consortium
- National Earthquake Hazards Reduction Program
- National Oceanic and Atmospheric Administration's National Centers for Environmental Information
- National Oceanic and Atmospheric Administration's National Hurricane Center
- National Oceanic and Atmospheric Administration's National Weather Service
- National Oceanic and Atmospheric Administration's Office for Coastal Management

- National Oceanic and Atmospheric Administration's National Geophysical Data Center
- National Oceanic and Atmospheric Administration's Storm Prediction Center
- U.S. Army Corps of Engineers' Cold Regions Research and Engineering Laboratory
- U.S. Census Bureau
- U.S. Department of Agriculture's National Agricultural Statistics Service
- U.S. Forest Service's Fire Modeling Institute's Missoula Fire Sciences Lab
- U.S. Geological Survey
- U.S. Geological Survey's Landslide Hazards Program
- U.S. Geological Survey Western Geographic Science Center Hazard Vulnerability Team
- United Nations Office for Disaster Risk Reduction
- University of Alaska – Fairbanks' Alaska Earthquake Center
- University of Nebraska – Lincoln's National Drought Mitigation Center

Data for Social Vulnerability are provided by the U.S. Census Community Resilience Estimate, and data for Community Resilience are obtained from the University of South Carolina's Hazards and Vulnerability Research Institute's 2020 Baseline Resilience Indicators for Communities. These obtained data were used to create a FEMA modified version of the Baseline Resilience Indicators for Communities for use in the National Risk Index dataset.

The source of the boundaries for counties and Census tracts are based on the U.S. Census Bureau's 2021 TIGER/Line shapefiles, except for Connecticut which uses the 2024 TIGER/Line shapefiles. Building value and population exposures for communities are based on FEMA's Hazus 6.0 and inflation adjusted to December 2024 dollars. Agriculture values are based on the U.S. Department of Agriculture 2017 Census of Agriculture and inflation adjusted to December 2024 dollars.

[National Risk Index Dataset - Data Dictionary](#)

[National Risk Index Dataset - Data Glossary](#)

[National Risk Index Dataset - Technical Documentation](#)

Credits

Federal Emergency Management Agency

Use limitations

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Summary

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 - Example:
 - Federal Emergency Management Agency (FEMA), National Risk Index Dataset: National Risk Index County_National Risk Index_Rating_Composite - v1.20. Retrieved from <https://fema.maps.arcgis.com/home/item.html?id=5771b821a2124413b2ee590a7>

[3ca338d](#) on December 13, 2025, 12:34 PM EST. This product uses the FEMA National Risk Index dataset API or downloadable datasets but is not endorsed by FEMA. The Federal Government or FEMA cannot vouch for the data or analyses derived from these data after the data have been retrieved from the Agency's website(s).

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Extent

West -179.2 East 179.8

North 71.4 South -14.5

Scale Range

Maximum (zoomed in) 1:5,000

Minimum (zoomed out) 1:150,000,000

Topics and Keywords ►

Themes or categories of the resource Environment, Planning & Cadastral, Society

Citation ►

Title National Risk Index

Edition December 2025 (version 1.20.0)

Extents ►

Extent

Geographic extent

Bounding rectangle

Extent type

Extent used for searching

West longitude -179.2

East longitude 179.8

North latitude 71.4

South latitude -14.5

Extent contains the resource Yes

Resource Points of Contact ►

Point of contact - point of contact

Individual's name National Risk Index

Organization's name Federal Emergency Management Agency

Contact information ►

Address

Type

e-mail address FEMA-NRI@fema.dhs.gov

Resource Maintenance ►

Resource maintenance

Update frequency irregular

Metadata Details ►

Metadata language English (UNITED STATES)

Metadata character set utf8 - 8 bit UCS Transfer Format

Scope of the data described by the metadata dataset

Last update ⇄ 2025-12-12

ArcGIS metadata properties

Metadata format ArcGIS 1.0

Standard or profile used to edit metadata ISO19115_3

Created in ArcGIS for the item 2021-04-27 13:45:34

Automatic updates

Have been performed No

Metadata Contacts ►

Metadata contact - point of contact

Individual's name National Risk Index

Organization's name Federal Emergency Management Agency

Contact information ►

Address

Type

e-mail address FEMA-NRI@fema.dhs.gov

Metadata Maintenance ►

Maintenance

Update frequency irregular