WEBSITE STRUCTURE: WV Flood Resiliency Framework  
D-R-A-F-T Concept

1. **HOME.** WV FLOOD RESILIENCY FRAMEWORK / Landing Page
2. **RISK.** FLOOD RISK TOOLS (map visuals\*). Five interactive tools identify and quantify riverine risk factors and community resiliency at various geographic levels. The West Virginia Flood Risk Index (WVFRI) shows which areas of the state are at most risk to riverine flooding. The flood risk indicators and cumulative index are classified into five vulnerability ratings between 0 and 100. More than 50 flood indicators are organized into the following major groups: hazard characteristics, physical/human exposure, physical loss/human impacts, and mitigation. Most of the flood risk factors are derived from FEMA’s flood maps, specifically the 1% annual chance riverine floodplains and model-backed depth grids. Building damage loss and people displacement estimates are computed at the structure-level using FEMA’s Hazus methodology. Users may analyze detailed flood risk data at the building level or aggregated at higher geographic levels at the community, county, region, watershed, or major river map scales. Community-level data is further subdivided by incorporated and unincorporated areas to align with local floodplain management ordinances and enforcement. These tools can support mitigation planning, emergency management, resilience building, response and recovery, as well as FEMA’s National Flood Insurance Program (NFIP) and Community Rating System (CRS) programs.
   1. **Cumulative** Risk\*.It identifies a cumulative risk score and qualitative ratings of the most vulnerable flood-prone areas in state.
   2. **Compare** Risk. Provides a side-by-side comparison of flood risk areas. *May be combined with Tool 1.*
   3. **Rank** Risk. Lists vulnerability rankings for specific flood risk factors at different geographic levels.
   4. **Indicators** of Risk\*. Graphically displays indicators of flood risk to include physical, human, and social vulnerabilities. *May be combined with Tool 1.*
   5. **Building-Level** Risk\*. Displays building-level risk and mitigation assessments of structures located in the high-risk floodplain.
      1. Hazard Characteristic
      2. Risk Assessment
      3. Mitigation Assessment
   6. **Count** Risk\*. Count and summarize risk indicators from user-defined areas on the map. *May be combined with Tool 5.*
3. **RESOURCES.** Resource web links for flood risk and other hazards.
   1. Flood Risk
      1. 2D / 3D Flood Visualizations (index map)
      2. Methodology
      3. Reports and Publications
      4. Data (GIS data, tables, etc. of downloadable risk products)
      5. External links to other flood resiliency sites, tools, datasets, etc.
   2. Other Hazards
      1. Landslides
      2. Karst
4. **ABOUT**
   1. Team
   2. Contact

|  |  |  |  |
| --- | --- | --- | --- |
| **HOME** | **RISK** | **RESOURCES** | **ABOUT** |
| (overview)  (index) | *Cumulative* Risk  *Compare* Risk  *Rank* Risk  *Indicators* of Risk  *Building-Level* Risk  *Count* Risk | *Flood Risk*   * + - 2D / 3D Flood Visualizations (index map)     - Methodology     - Reports and Publications     - Data (GIS data, tables, etc. of risk products)     - External links to other sites, tools, datasets, etc.   *Other Hazards*   * Landslides * Karst * Dams | *Team*  *Contact* |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| HOME | **RISK** | Cumulative | Compare | Indicators | Building-Level | Count Risk |
| HOME | **RESOURCES** | Flood Risk | Other Hazards |  |  |  |
| HOME | **ABOUT** | Team | Contact |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| HOME | RESOURCES | ***Flood Risk*** | 3D Visuals | Methodology | Reports | Data | External |
| HOME | RESOURCES | ***Other Hazards*** | Landslides | Karst | Dams |  |  |

FEMA NATIONAL RISK INDEX

https://www.fema.gov/flood-maps/products-tools/national-risk-index

REPORT EXAMPLE

https://hazards.fema.gov/nri/report/viewer?dataLOD=Counties&dataIDs=C54059

FEMA PRODUCT LINK  
https://www.fema.gov/flood-maps/products-tools

National Risk Index

Home

Learn More

Take Action

Get Help

Related Section

How the Risk Index Can Help

Determining Risk

-Social Vulnerability

-Community Resilience

-Expected Annual Loss

Understanding Scores and Ratings

-Behind the Risk Index

-Literature Review

-Working Groups Collaboration

-Data and Methods

-Risk Index Contributors

Data Resources

Data Archive

Frequently Asked Questions

Disclaimer

Resilience Analysis & Planning Tool (RAPT)

https://www.fema.gov/about/reports-and-data/resilience-analysis-planning-tool