

West Virginia Flood Resiliency Framework

A virtual hub of risk assessment, visualization, planning, and training resources for building community flood resiliency in West Virginia



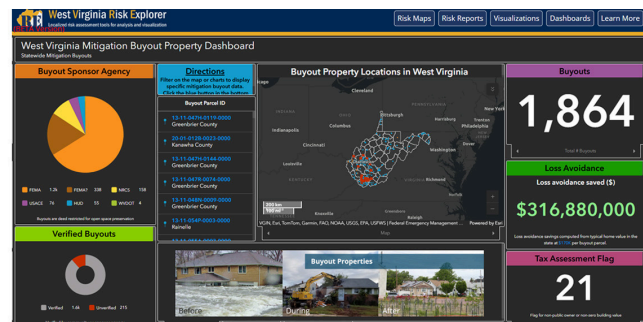
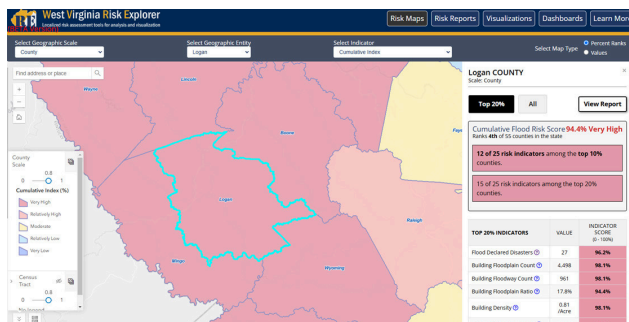
About the WVFRF

West Virginia has high flood risk and communities do not always have adequate resources for disaster preparation, response, and recovery. The newly launched West Virginia Flood Resiliency Framework (WVFRF) is a virtual hub of risk assessment, visualization, planning, and training resources designed to build community flood resiliency across the state.

The WVFRF was co-created with civic actors and academic researchers using community-engaged research practices. It incorporates findings from statewide flood risk analyses, surveys, focus groups, and the Building Flood Resiliency in WV Communities Symposium held in March 2024.

The WVFRF is unique in the nation and includes analytical and visualization tools designed for use by anyone committed to strengthening flood resiliency in West Virginia communities, including decision-makers at all levels (local, state, regional, and federal), floodplain managers, non-profit organizations, planners, and emergency managers. Key aspects of the framework are:

- **WV Hazard Library**, an online tool that allows stakeholders to search hazard resources specific to West Virginia, such as:
 - A Handbook for pre-disaster coordination to improve disaster response
 - Floodplain Manager Trainings to build technical capacity and best practices
 - Survey Results from a comprehensive statewide assessment of flood vulnerability, recovery, and preparedness
- **WV Risk Explorer Tools**, a cutting-edge platform for risk assessment and visualization across nine geographic scales, featuring:
 - Risk Maps to explore interactive flood risk indicators
 - Risk Reports for downloadable risk assessments and comparisons
 - 3D and 2D Visualizations of flood models at community and building levels
 - Dashboards for analyzing risk factors and identifying mitigation strategies
 - WV Building-Level Risk Tools for analyzing flood risk in detail at the scale of individual structures



Contact Us

For general information about the West Virginia Flood Resiliency Framework, contact Dr. Jamie Shinn, at jeshinn@esf.edu. For inquiries on the tools, data, methodology, or technical support, please contact the WV GIS Technical Center at wvfrf@mail.wvu.edu.

To explore the framework, visit wvfrf.org