

Creating the West Virginia Flood Resiliency Framework for comprehensive disaster response and long-term community recovery

Project Challenge

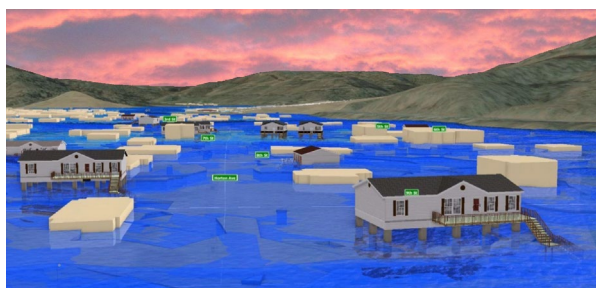
West Virginia has extremely high flood risk and lacks adequate resources for disaster preparation, response, and recovery. The West Virginia Flood Resiliency Framework (WVFRF) is a freely available online toolkit that is designed to serve as a hub of information to assist communities across the disaster management cycle from understanding flood risk to preparation for and management of a flood disaster.

Research Questions

1. How fully have West Virginians recovered from past floods, and how resilient are they against future flooding?
2. What flood risk knowledge is needed to promote resiliency in WV?
3. What are best practices for flood response and recovery in WV?



WVFRF Team at Flood Symposium



Inundation scenario of a 1%-annual-chance (100-year) flood in Rainelle, WV

Pilot Outcomes

The West Virginia Flood Resiliency Framework contains:

- Results of a statewide flood vulnerability survey
- A best practices guide for disaster preparation and flood response
- Floodplain management trainings
- The WV Risk Explorer tool that can be used to understand and visualize riverine flood risk at nine geographic scales



Meadow River Valley
Building Trails To A Bright Future



West Virginia

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Civic Partners:

- WV GIS Technical Center
- WV State Resiliency Office
- WVU Land Use & Sustainable Development Law Clinic
- WV Voluntary Organizations Active in Disasters
- Meadow River Valley Association
- Greenbrier County Homeland Security & Emergency Management

Research Partners:

- Aaron Maxwell, West Virginia University
- Julian Levine, WV School of Osteopathic Medicine

RAPID.
LOCAL.
CO-CREATED.
IMPACTFUL.

CIVIC
INNOVATION
CHALLENGE

COOPERATION | COMMUNICATION | COORDINATION | COLLABORATION