



West Virginia Risk Explorer

Localized risk assessment tools for analysis and visualization

West Virginia Flood Resiliency Framework (WVFRF)

June 12, 2025



WV GIS Technical Center
West Virginia University



Flood Risk in WV

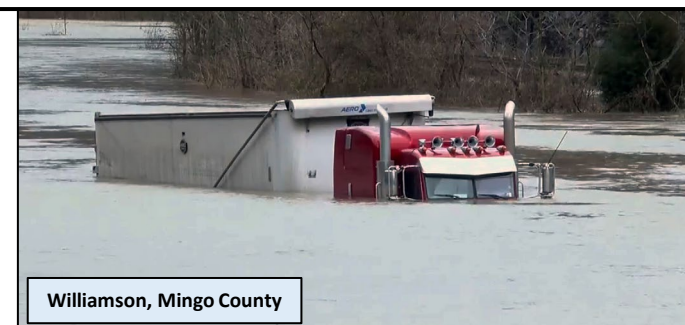
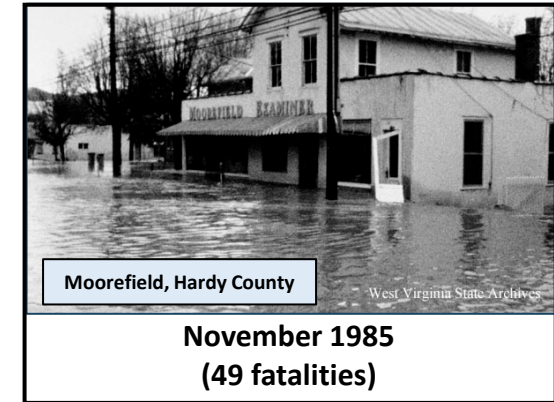
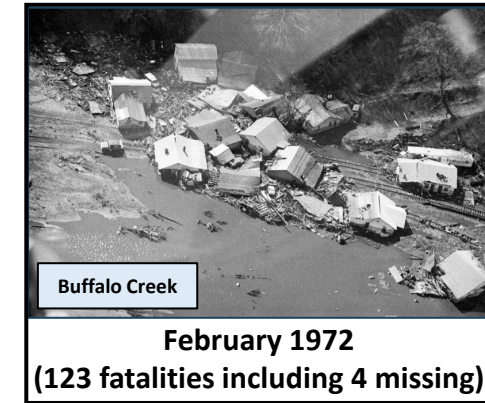
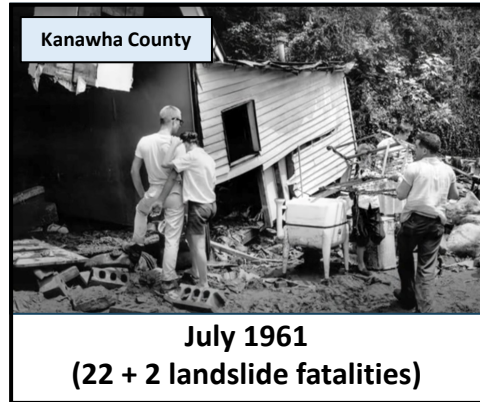


64 Federally-Declared Flood Disasters since 1953

220 Loss of Lives

About 98,000 Buildings (9%)
in 1%-annual-chance (100-yr) Floodplain

About 199,000 Persons (11%)
Reside in 100-yr Floodplain



WV Floodplain Building Inventory (BI)



Flood Exposure Assessment (Building-Level)

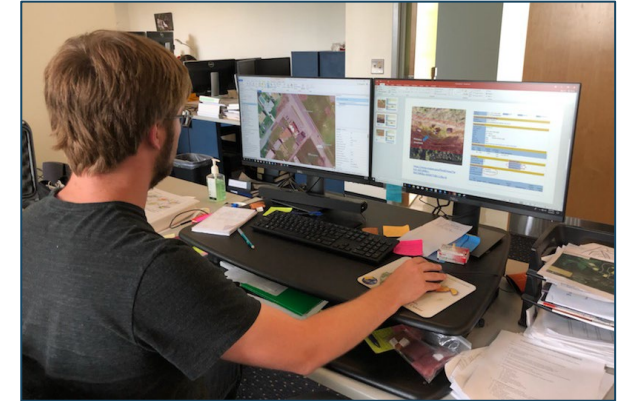
Funded by: FEMA Hazard Mitigation Grant Program (HMGP) and State Hazard Mitigation Office

- All primary (insurable) structures in the 1%-annual-chance (100-yr) floodplain
- Community Assets (Historical & Non-Historical) in the 100-yr floodplain
- Essential Facilities in the 100-yr and 500-yr floodplains

Essential Facilities



Community Assets



Detailed building characteristics from tax assessment

+

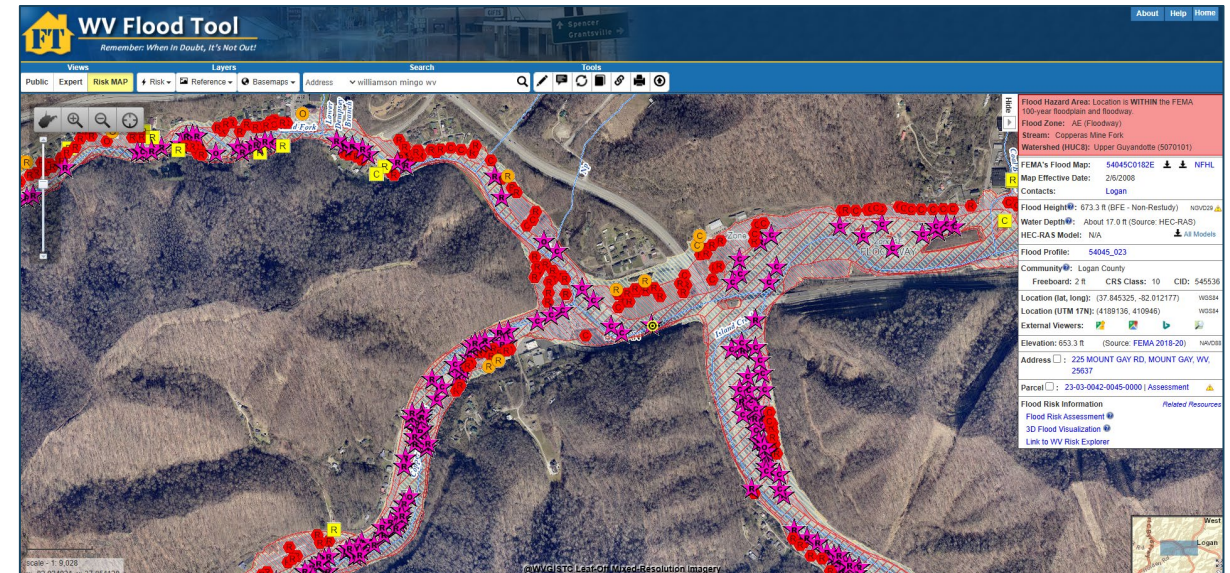
Population exposure and displacement estimates (100-yr flood)

Manual process of identification using Arc GIS

+

Programmed scripts to extract and process data

Product: **WV Flood Tool**  mapwv.gov/flood

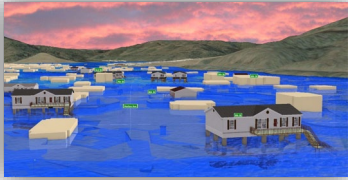


WV Flood Resiliency Framework (WVFRF)

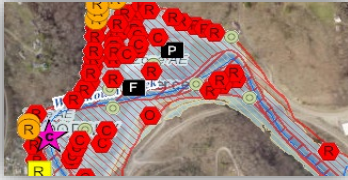


A virtual hub of risk assessment, visualization, planning, and training resources for building community flood resiliency in WV

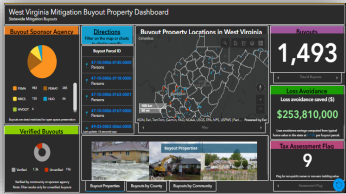
Flood Visualizations



WV Flood Tool



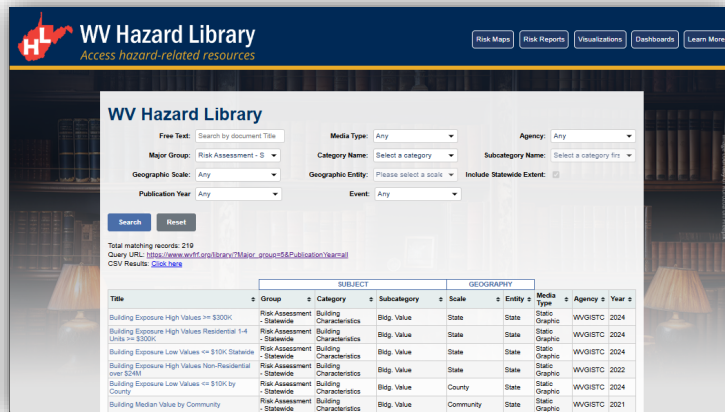
Flood Dashboards



WV Risk Explorer



Example Tools



Hazard Library

RISK TOOLS

- WV Risk Explorer
- WV Flood Tool
- Visualizations
- Dashboards

9 Geographic Scales

COMMUNITY ENGAGEMENT

- Focused Outreach Meetings
- Flood Symposium
- Resiliency Tools & Products
- Learning Resources & Reports

HAZARD LIBRARY

Search online hazard resources by title, subject, media, event, geography, data, etc.

STAKEHOLDERS

- Risk Reduction Associates
- Emergency Responders
- Floodplain Managers
- Local Officials
- Volunteers
- Public



Community Engagement Meeting



Flood Symposium Stakeholders



WVFRF (BETA)

[PROJECT OVERVIEW](#) [WV RISK EXPLORER](#) [WV FLOOD TOOL](#) [CONTRIBUTORS](#) [CONTACT US](#)

WEST VIRGINIA FLOOD RESILIENCY FRAMEWORK

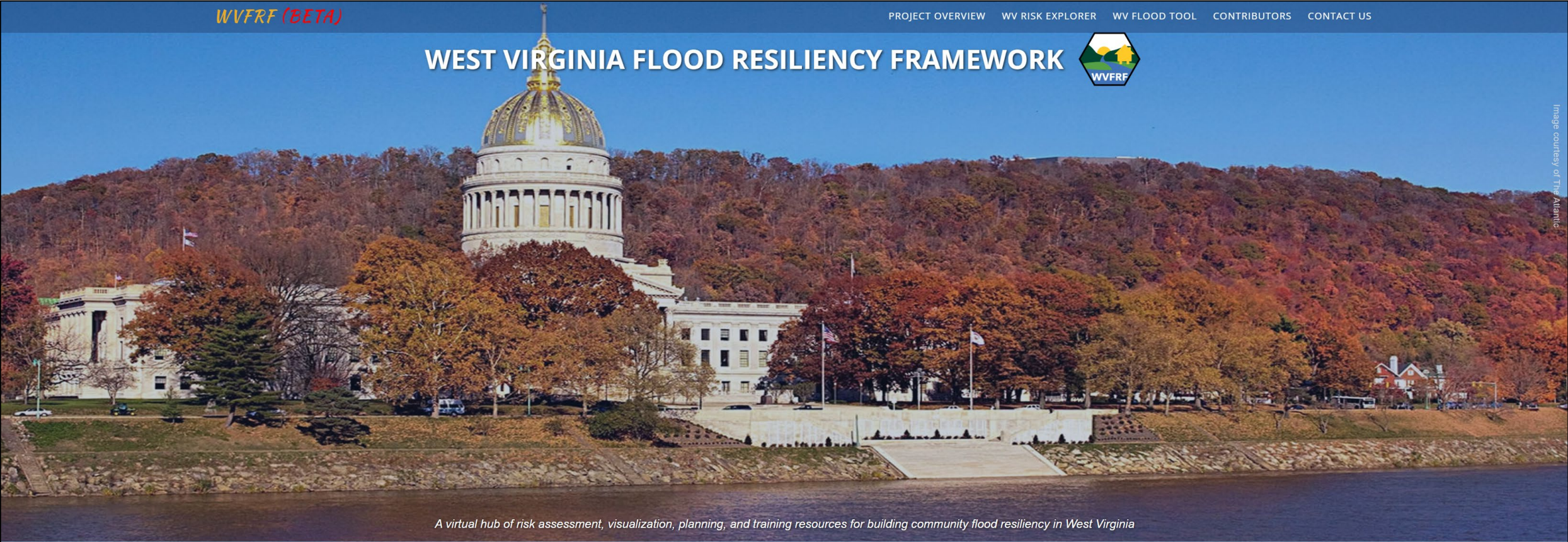


Image courtesy of The Atlantic

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

PRIMARY TOOLS



WV Risk Explorer



WV Flood Tool



WV Property Viewer



WV Hazard Library

Overall Flood Risk

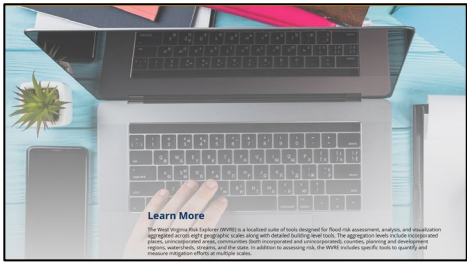
| (1) FLOODPLAIN CHARACTERISTICS | (2) BUILDING EXPOSURE | (3) BUILDING CHARACTERISTICS | (4) CRITICAL INFRASTRUCTURE | (5) COMMUNITY ASSETS | (6) BUILDING DAMAGE LOSS | (7) PEOPLE / SOCIAL VULNERABILITIES | (8) OTHER HAZARDS |
|----------------------------------|--|-------------------------------|-----------------------------|-----------------------|--|-------------------------------------|---------------------|
| Floodplain Area | Building Floodplain Count ^{1 2} | Building Value ^{1 2} | Essential Facilities | Historical Assets | Substantial Damage Estimates ^{*1 2} | Population in Floodplain | Landslides |
| Floodplain Length ^{1 2} | Building Floodway Count ^{1 2} | Mobile Homes | Roads Inundated | Non-Historical Assets | Previous Claims | Population Displaced | Karst** |
| Floodplain Depth ^{1 2} | Building Floodplain Ratio ² | Basement | | | Repetitive Losses | WV Social Vulnerability Index | Dam/Levee Failure** |
| Flood Disaster Frequency | Building Density ^{1 2} | One Story | | | | | |
| | | Building Year* | | | | | |

* Multiple Indicators

** In Progress

¹ River/Stream Indicator

² Watershed Indicator



Analytical & Visualization Tools at Multiple Scales

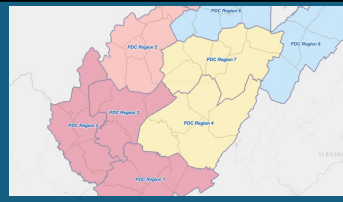


Political Boundaries

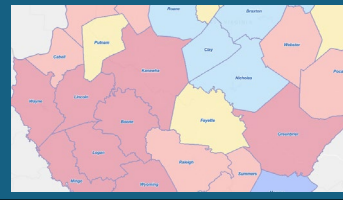
State



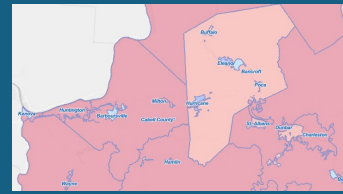
PDC Regions (11)



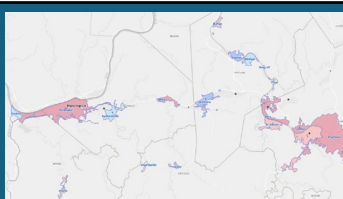
Counties (55)



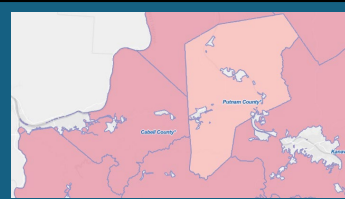
Communities (284)



Incorporated
Places
(229)

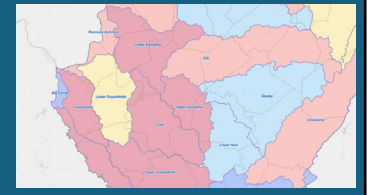


Unincorporated
Areas
(55)

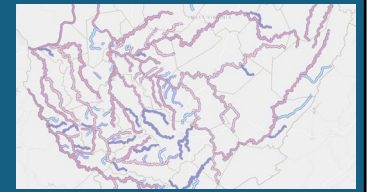


Drainage Areas / Streams

Watersheds
(33)



Streams/Rivers
(156)

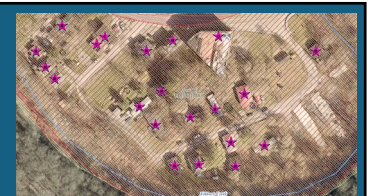


Property Levels

Parcels



Buildings



Geographic Entities at VERY HIGH Risk (Top 10%)



| RANK | All Communities | Index Score | Incorporated Places | Index Score | Unincorporated Areas | Index Score | Counties | Index Score | Regions | Index Score |
|------|-----------------------------------|-------------|---------------------------------|-------------|-----------------------------------|-------------|----------|-------------|--------------|-------------|
| 1 | New Martinsville - Incorporated | 100.0% | Clendenin - Incorporated | 100.0% | Kanawha County* - Unincorporated | 100.0% | Kanawha | 100.0% | PDC Region 2 | 100% |
| 2 | Boone County* - Unincorporated | 99.6% | New Martinsville - Incorporated | 99.5% | Boone County* - Unincorporated | 98.1% | Boone | 98.1% | PDC Region 3 | 90% |
| 3 | Clendenin - Incorporated | 99.2% | Alderson** - Incorporated | 99.1% | Wayne County* - Unincorporated | 96.2% | McDowell | 96.2% | | |
| 4 | Marlinton - Incorporated | 98.9% | Marlinton - Incorporated | 98.6% | McDowell County* - Unincorporated | 94.4% | Logan | 94.4% | | |
| 5 | Wheeling** - Incorporated | 98.5% | Kimball - Incorporated | 98.2% | Mingo County* - Unincorporated | 92.5% | Mingo | 92.5% | | |
| 6 | McDowell County* - Unincorporated | 98.2% | Parsons - Incorporated | 97.8% | Logan County* - Unincorporated | 90.7% | Wyoming | 90.7% | | |
| 7 | Alderson** - Incorporated | 97.8% | Wheeling** - Incorporated | 97.3% | | | | | | |
| 8 | Wayne County* - Unincorporated | 97.5% | Northfork - Incorporated | 96.9% | | | | | | |
| 9 | Parsons - Incorporated | 97.1% | Danville - Incorporated | 96.4% | | | | | | |
| 10 | Kanawha County* - Unincorporated | 96.8% | Madison - Incorporated | 96.0% | | | | | | |
| 11 | Madison - Incorporated | 96.4% | Milton - Incorporated | 95.6% | | | | | | |
| 12 | Kimball - Incorporated | 96.1% | Oceana - Incorporated | 95.1% | | | | | | |
| 13 | Lincoln County* - Unincorporated | 95.7% | Keystone - Incorporated | 94.7% | | | | | | |
| 14 | Milton - Incorporated | 95.4% | Wellsburg - Incorporated | 94.2% | | | | | | |
| 15 | Mingo County* - Unincorporated | 95.0% | Gary - Incorporated | 93.8% | | | | | | |
| 16 | Logan County* - Unincorporated | 94.6% | Rowlesburg - Incorporated | 93.4% | | | | | | |
| 17 | Danville - Incorporated | 94.3% | Grantsville - Incorporated | 92.9% | | | | | | |
| 18 | Wellsburg - Incorporated | 93.9% | Richwood - Incorporated | 92.5% | | | | | | |
| 19 | Oceana - Incorporated | 93.6% | Rainelle - Incorporated | 92.1% | | | | | | |
| 20 | Rowlesburg - Incorporated | 93.2% | Mannington - Incorporated | 91.6% | | | | | | |
| 21 | Northfork - Incorporated | 92.9% | Spencer - Incorporated | 91.2% | | | | | | |
| 22 | Gary - Incorporated | 92.5% | Welch - Incorporated | 90.7% | | | | | | |
| 23 | Wyoming County* - Unincorporated | 92.2% | Buckhannon - Incorporated | 90.3% | | | | | | |
| 24 | Welch - Incorporated | 91.8% | | | | | | | | |
| 25 | Summers County* - Unincorporated | 91.5% | | | | | | | | |
| 26 | Buckhannon - Incorporated | 91.1% | | | | | | | | |
| 27 | Richwood - Incorporated | 90.8% | | | | | | | | |
| 28 | Ceredo - Incorporated | 90.4% | | | | | | | | |
| 29 | Mannington - Incorporated | 90.1% | | | | | | | | |

| RANK | Streams | Index Score | Watersheds | Index Score |
|------|----------------------------|-------------|---------------|-------------|
| 1 | Coal River | 100.0% | Lower Kanawha | 100.0% |
| 2 | Ohio River | 99.3% | Coal | 96.8% |
| 3 | Greenbrier River | 98.7% | Tug | 93.7% |
| 4 | Island Creek | 98.0% | Upper Kanawha | 90.6% |
| 5 | Little Coal River | 97.4% | | |
| 6 | Cacapon River | 96.7% | | |
| 7 | Kanawha River | 96.1% | | |
| 8 | Campbells Creek | 94.8% | | |
| 9 | South Branch Potomac River | 94.8% | | |
| 10 | Mud River | 94.1% | | |
| 11 | Pocatalico River | 93.5% | | |
| 12 | Davis Creek | 92.9% | | |
| 13 | Cabin Creek | 92.2% | | |
| 14 | Wheeling Creek | 91.6% | | |
| 15 | Big Coal River | 90.9% | | |
| 16 | Pond Fork | 90.3% | | |

| |
|---|
| Colors: |
| Black --> Incorporated places |
| Black on yellow** --> Split communities |
| Black on blue: Incorporated communities included in the detailed risk report (Camden-on-Gauley, Clendenin, Marlinton, Rainelle, Richwood, and White Sulphur Springs) |
| Brown on gray --> Unincorporated areas |
| Green --> Counties (Total) |

Last update: Aug. 2024

Risk Tools Comparison



WV Flood Tool

Determine the degree of flood risk for a *specific area or property* using the Public and Expert Views. View building risk assessments and mitigation measures using the Risk Map View.

Primary Components:

- Public View
- Expert View (Floodplain Management)
- RiskMap View (Risk Reduction)
- Reference Layers & Basemaps
- Property Search Tools
- Links to External Viewers & Resources



Applications:

- Flood Risk Determinations at Property Level
- Floodplain Management
- Mitigation Measures
- Damage Assessments
- Property Identification
- Flood Visualizations & Risk Communications
- CRS Map Credits
- Other Hazards

WV Risk Explorer

View and analyze riverine flood risk at the *aggregate level* for community, county, region, watershed, and stream scales. *Compare risk* among different geographic entities, complete with risk scores and rankings, from the building level to state scales.

Primary Components:

- Risk Maps Tool
- Risk Reports Tool
- Risk & Mitigation Dashboard Tools
- Building Level Risk Tools
- Flood Visualization Tools
- Data linkages WV Flood Tool & Hazard Library



Applications:

- Plans (Resiliency, Emergency Operations, Hazard Mitigation)
- Risk Studies (Risk MAP, Risk Reduction, Community Focused)
- Mitigation Measures, Tracking & Monitoring
- Flood Visualizations & Risk Communications
- CRS Programming Variables
- Other Hazards

West Virginia Risk Explorer (WVRE)



Risk Assessment Tools: Localized risk assessment tools for analysis

WVRE Landing Page: wvfrf.org/wvre

WV Risk Explorer Maps

Interactively view and explore flood risk indicators on a map to identify areas of higher risk.

Risk Maps

WV Risk Explorer Reports

View and download flood risk assessment and comparison reports in more detail.

Risk Reports

WV Building-Level (BL) Risk

Analyze flood risk at the level of individual structures in detail.

BL Risk

WV Flood Dashboards

Use the interactive dashboards to analyze risk factors and mitigation measures.

Dashboards

WV Hazard Library

Search the document and visual media library for hazard information.

Hazard Library

Primary Structures

Detailed building inventory developed by pinpointing all primary structures in the high-risk 1% annual chance (100-year) effective and advisory floodplains.

Significant Structures

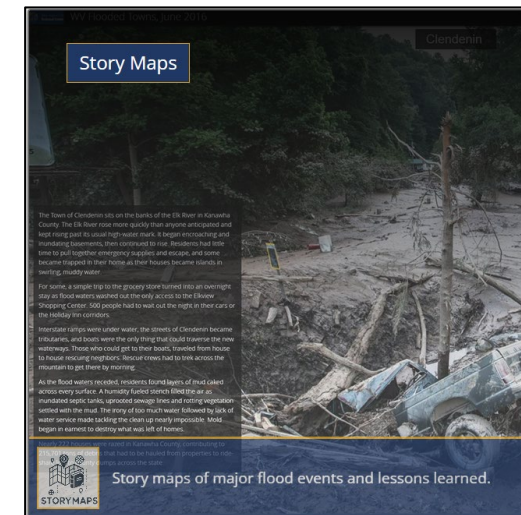
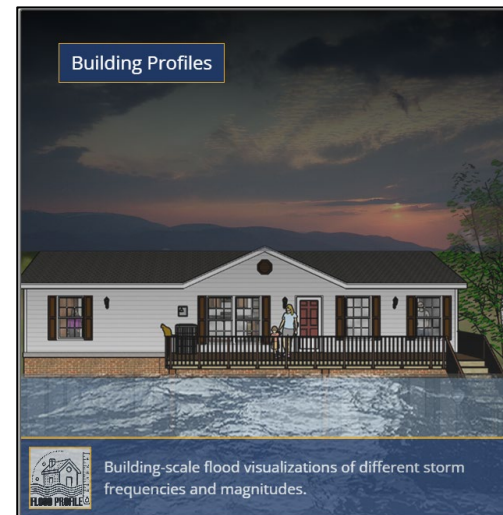
Historical and non-historical community assets in the high-risk 100-year effective and advisory floodplains and essential facilities inventoried to the 500-year flood event.

West Virginia Risk Explorer (WVRE)...



Risk Communication Tools:

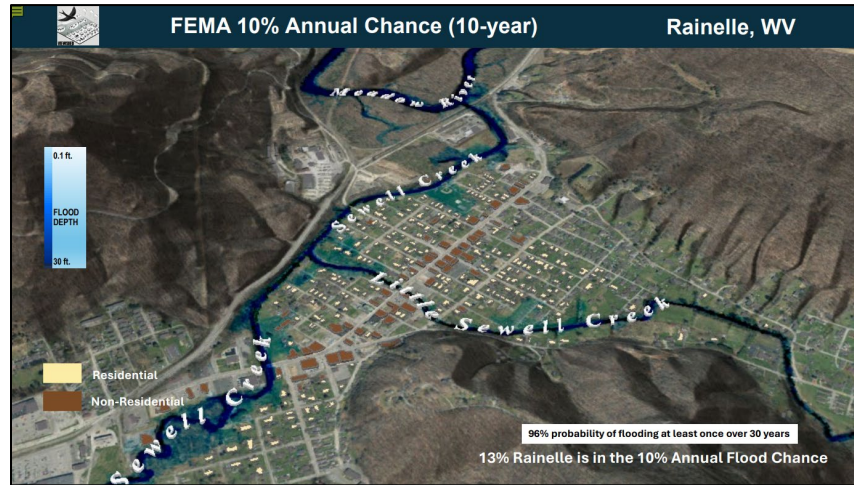
Facilitating risk comprehension for different groups of stakeholders



West Virginia Risk Explorer (WVRE)...



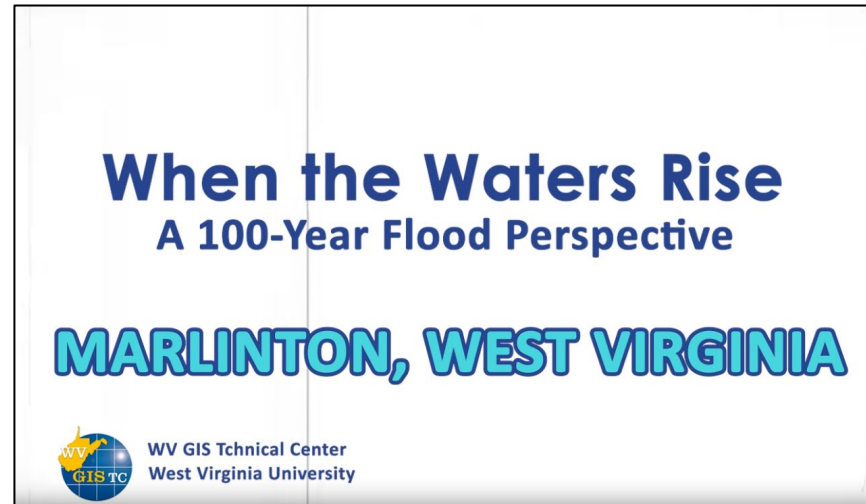
Visualization Examples:



Viewshed for Rainelle



Building Profile in Clendenin



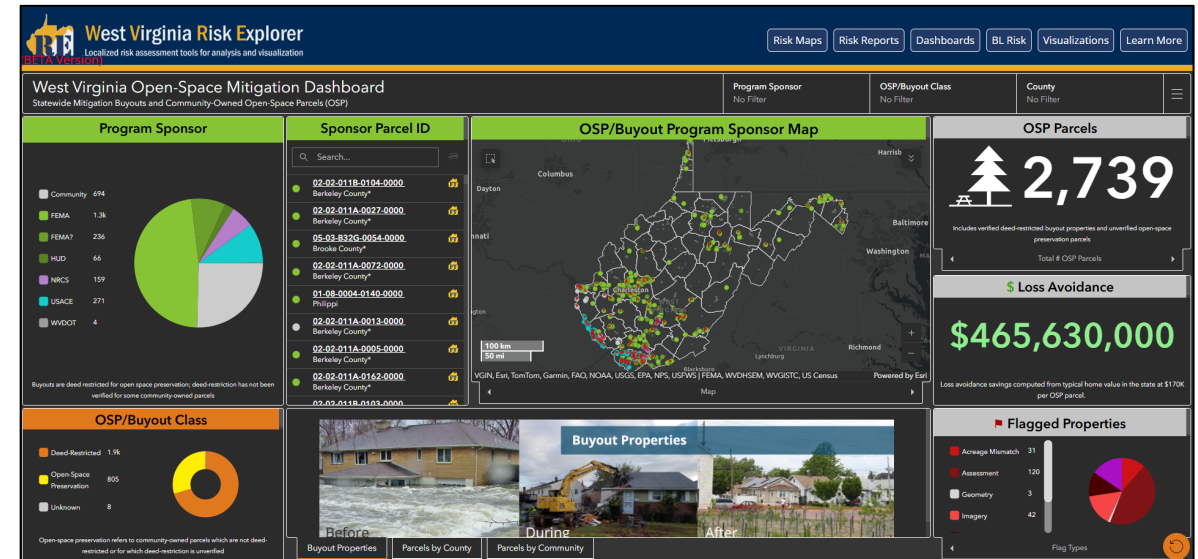
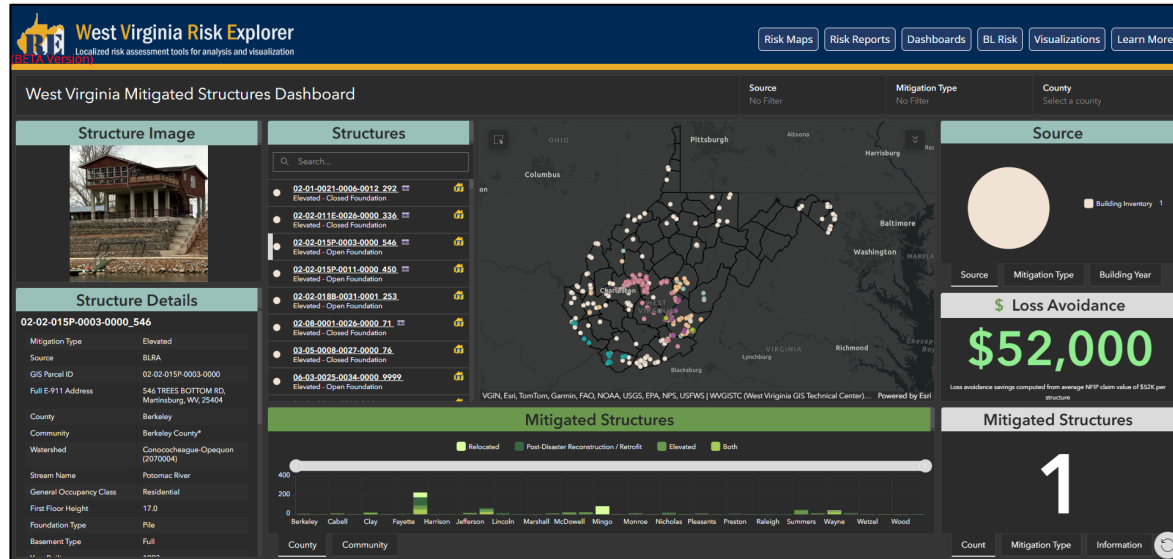
3D Movie for Marlinton

West Virginia Risk Explorer (WVRE)...



Mitigation Assessment Tools:

- Mitigated Structures Dashboard
- Open-Space Mitigation Dashboard



Future Direction



Finalizing the Hazard Library (soon)

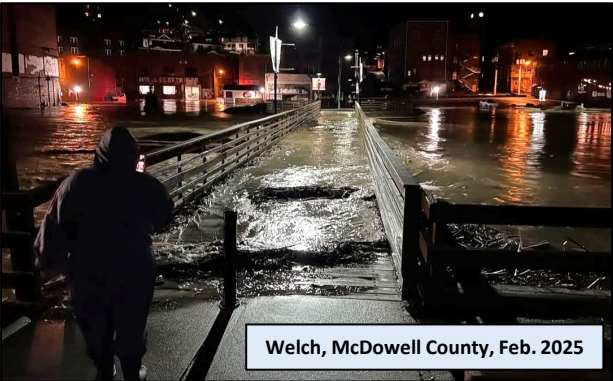
Future Maintenance and data updates?

Training?

**Please
start using
the new
tools!**



Recent Flood, Feb. 2025



Welch, McDowell County, Feb. 2025



Welch, McDowell County, Feb. 2025



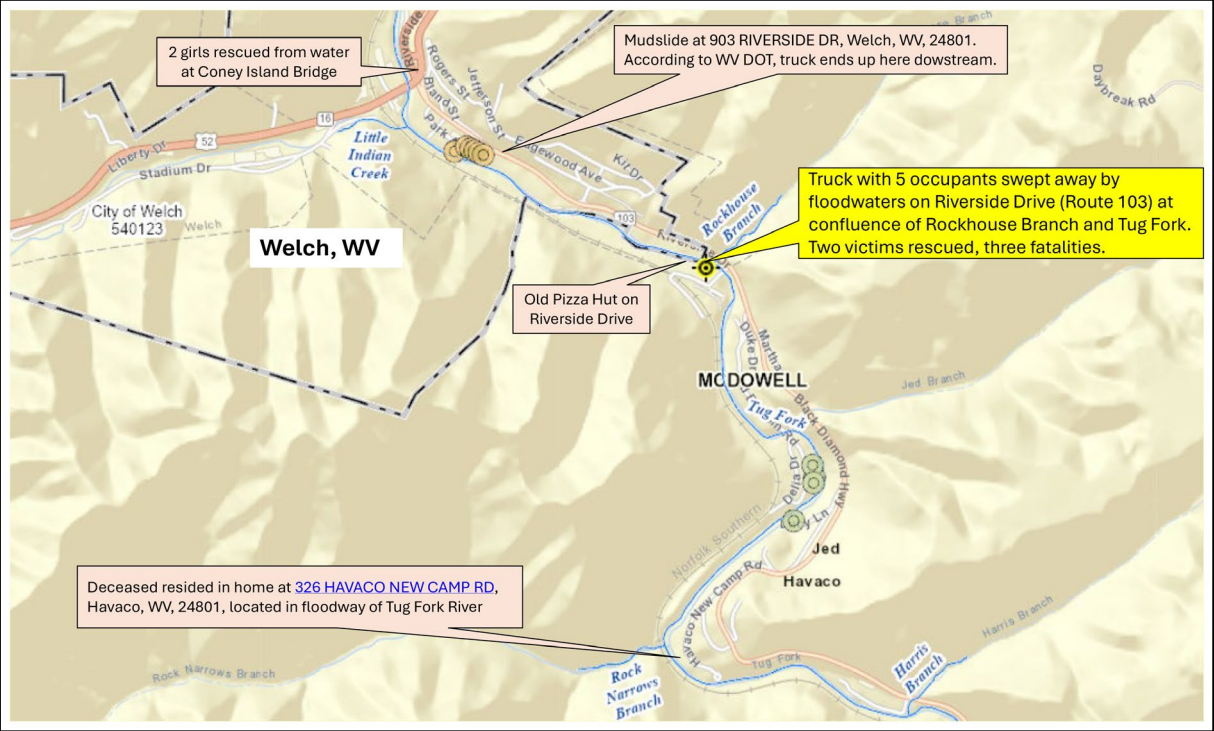
McDowell County, Feb. 2025

Highlights:

Mobile Homes, vulnerable and challenging to manage

Significant Structures flooded

Mitigation Efforts, building to higher protection levels



Mingo County, Feb. 2025



Mingo County, Feb. 2025



Williamson, Mingo County, Feb. 2025

Mobile Home in Floodway Destroyed (Edgerton, Mingo)

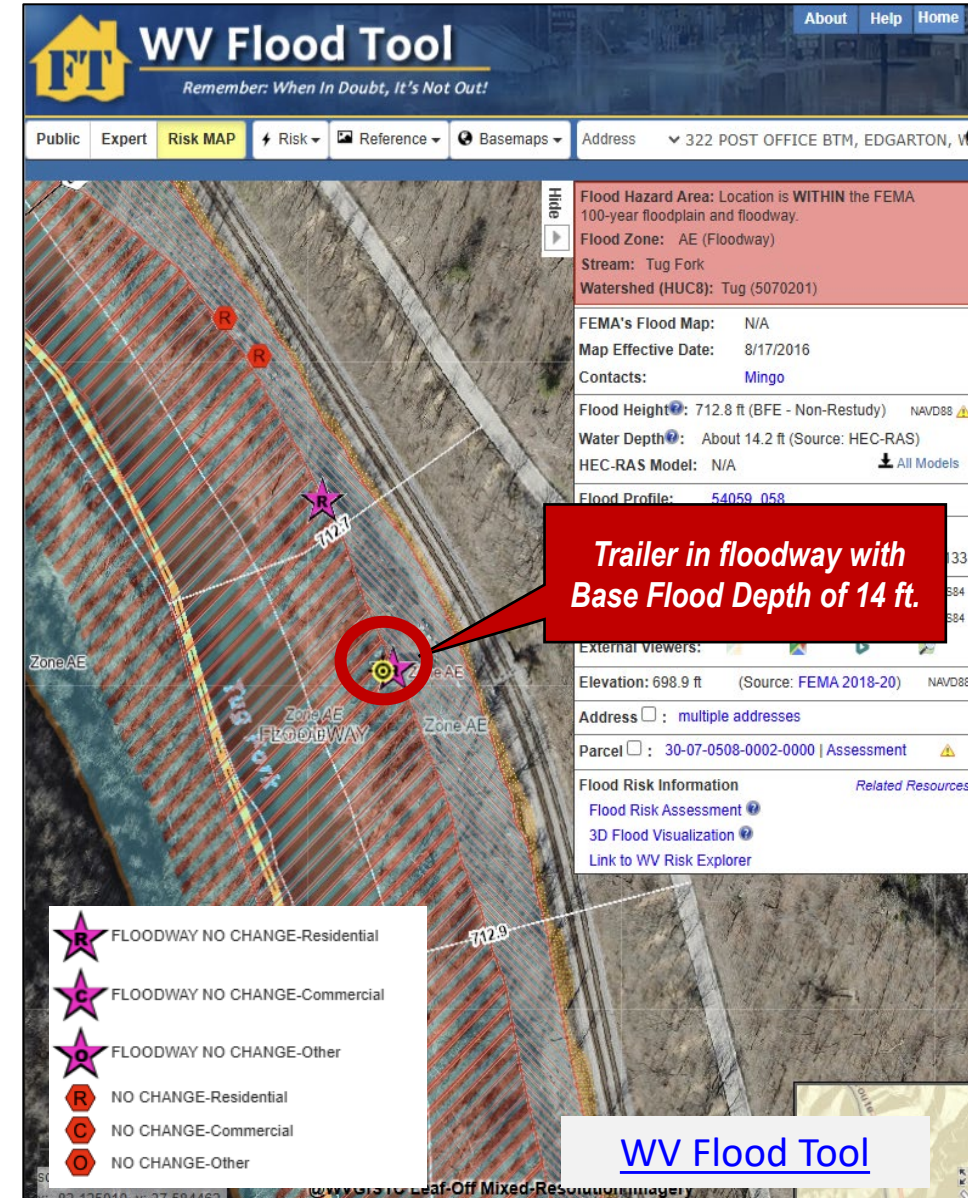


322 POST OFFICE BTM, EDGARTON, WV
Building ID: [30-07-0508-0002-0000](#) 322

1977 Flood Elev: 722.0 ft. (24 ft. depth)
FEMA 500-YR Elev: 718.8 ft. (20 ft. depth)
FEMA 100-YR BFE: 712.8 ft. (14 ft. depth)



**Non-compliant Post-FIRM
trailer in floodway
destroyed in 2025 flood**



Mobile Home in Floodway Destroyed (Edgerton, Mingo)...

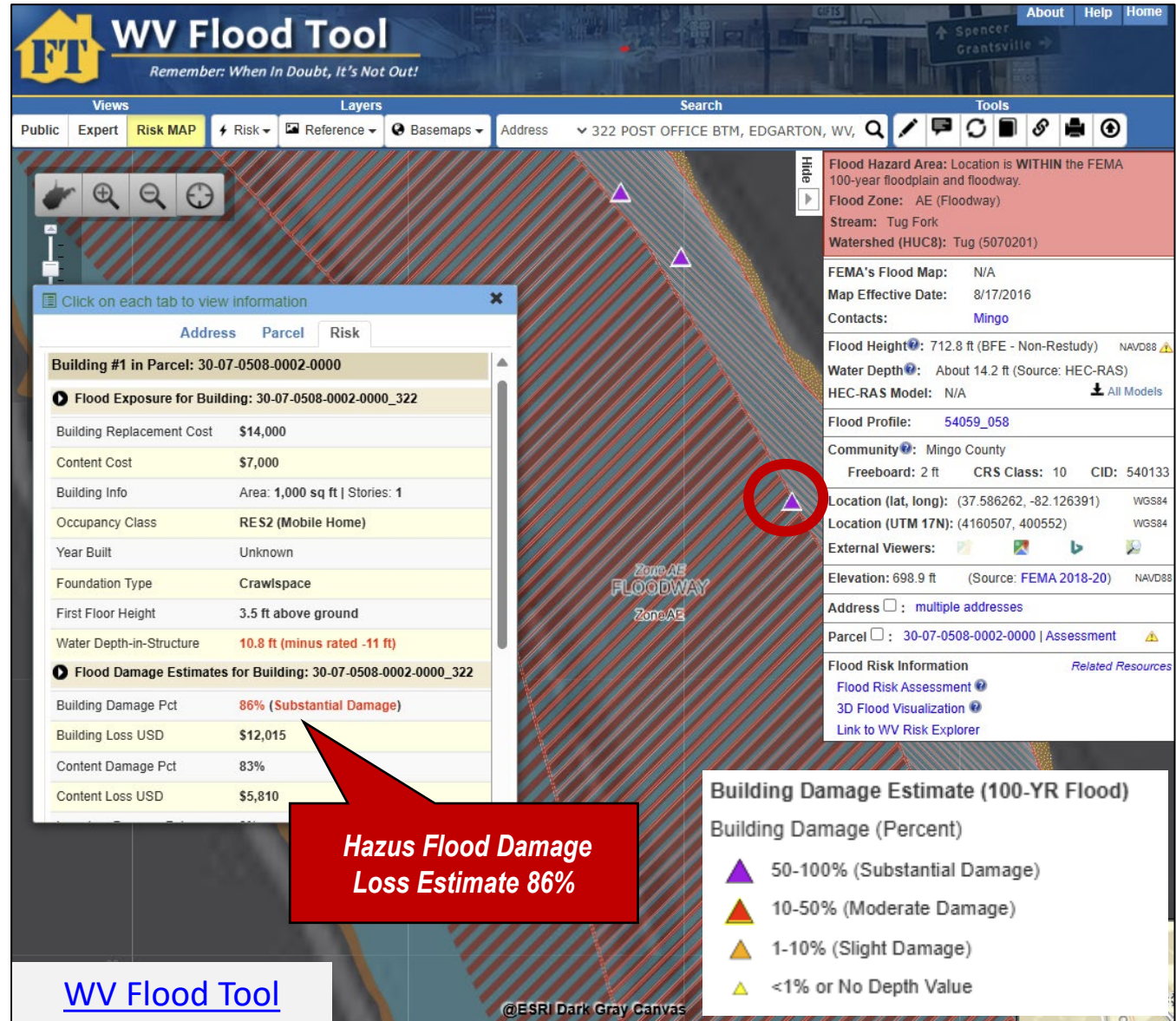


322 POST OFFICE BTM, EDGARTON, WV
Building ID: [30-07-0508-0002-0000 322](#)

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**Non-compliant Post-FIRM
trailer in floodway
destroyed in 2025 flood**




Mobile Home in Floodway Destroyed (Edgarton, Mingo)...



WV Risk Explorer's BL Risk Tool for Primary Structures in Floodplain

<< Mingo County [Query](#) on highest estimated Flood Depths >>

**West Virginia Risk Explorer**
Localized risk assessment tools for analysis and visualization
(BETA Version)

[Risk Maps](#) [Risk Reports](#) [Dashboards](#) [BL Risk](#) [Visualizations](#) [Learn More](#)

Select Geographic Scale: County Select Geographic Entity: Mingo

[COLUMNS](#) [Advanced Search](#)

PRIMARY STRUCTURES TABLE
Report Date: March 2025 [Metadata](#)

SQL Filter: County = Mingo SQL Filter: Stream_Name NOT_IN (Trace Fork) [Clear all Filters](#)

3509 Records Selected. Export to [CSV](#) (2000 record limit)

| SPATIAL IDENTIFIERS | | | GEOGRAPHIC UNITS | | FLOOD ZONE | | BUILDING CHARACTERISTICS | | BUILDING DAMAGE ESTIMATE | |
|---|--|------------|--------------------------------|---------------|------------|-------------|--------------------------|--------------------|--------------------------|----------------|
| Building ID | E-911 Address | Flood Tool | Community | Stream | Flood Zone | In Floodway | General Occupancy | Specific Occupancy | Flood Depth | Bldg. Damage % |
| 30-07-0508-0002-0000_308 | 308 POST OFFICE BTM, EDGARTON, WV, 25672 | | Mingo County* - Unincorporated | Tug Fork | AE | Yes | Residential | RES2 | 14.8 Ft | 86% |
| 30-07-0508-0002-0000_322 | 322 POST OFFICE BTM, EDGARTON, WV, 25672 | | Mingo County* - Unincorporated | Tug Fork | AE | Yes | Residential | RES2 | 14.3 Ft | 85% |
| 30-11-001A-0001-0000_320 | 320 STEPP BLVD, WEST WILLIAMSON, WV, 25661 | | Williamson - Incorporated | Tug Fork | AE | Yes | Non-Residential | COM2 | 12.6 Ft | 39% |
| 30-10-0001-0123-0000_139 | 139 DILLON LN, CHATTAROY, WV, 25667 | | Mingo County* - Unincorporated | Buffalo Creek | AE | No | Non-Residential | GOV1 | 12.1 Ft | 33% |
| 30-11-0007-0233-0000_317 | 317 E FOURTH AVE, WILLIAMSON, WV, 25661 | | Williamson - Incorporated | Tug Fork | AE | Yes | Non-Residential | COM4 | 12.1 Ft | 54% |
| 30-05-0001-0027-0000_57 | 57 TUSCANY LN, EAST KERMIT, WV, 25674 | | Mingo County* - Unincorporated | Tug Fork | AE | Yes | Residential | RES1 | 11.8 Ft | 74% |
| 30-10-0008-0016-0000_9996 | 9996 SR 49, RAWL, WV, 25691 | | Mingo County* - Unincorporated | Tug Fork | AE | No | Residential | | 10.6 Ft | 82% |
| 30-10-0008-0015-0000_9997 | 9997 SR 49, RAWL, WV, 25691 | | Mingo County* - Unincorporated | Tug Fork | AE | No | Residential | | 10.4 Ft | 81% |
| 30-03-0302-0056-0002_277 | 277 OLD FIELD BR, MAHER, WV, 25661 | | Mingo County* - Unincorporated | Tug Fork | AE | No | Residential | | 10.3 Ft | 81% |
| 30-10-0008-0020-0000_9998 | 9998 SR 49, RAWL, WV, 25691 | | Mingo County* - Unincorporated | Tug Fork | AE | No | Residential | | 9.9 Ft | 81% |

Rows per page: 10

10 of 3509 [Next >](#) [Last >>](#)

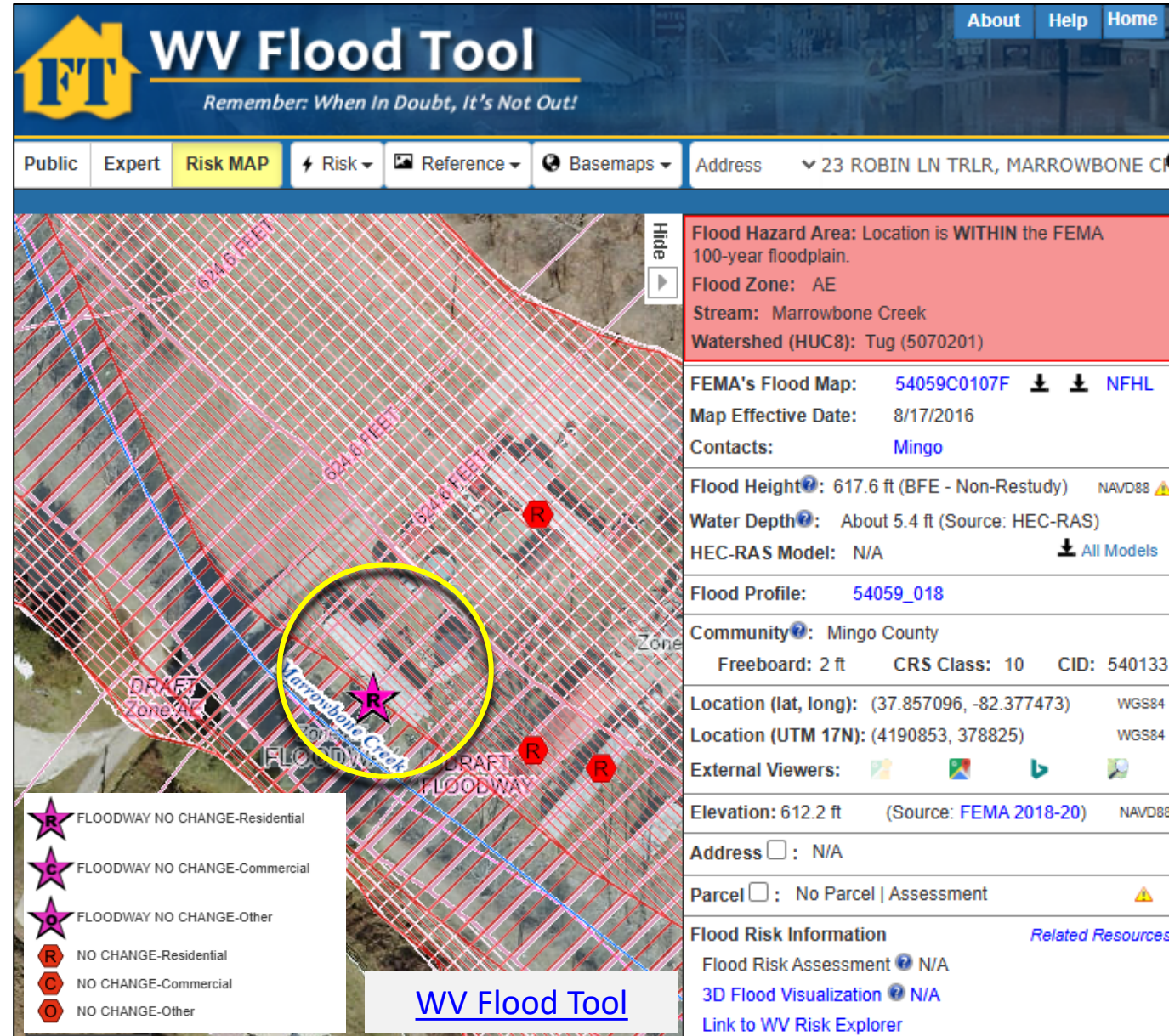
Trailer [30-07-0508-0002-0000_322](#) that was destroyed in 2025 Flood was the second highest damage loss estimate for Mingo County

322 POST OFFICE BTM, EDGARTON, WV
Building ID: [30-07-0508-0002-0000_322](#)

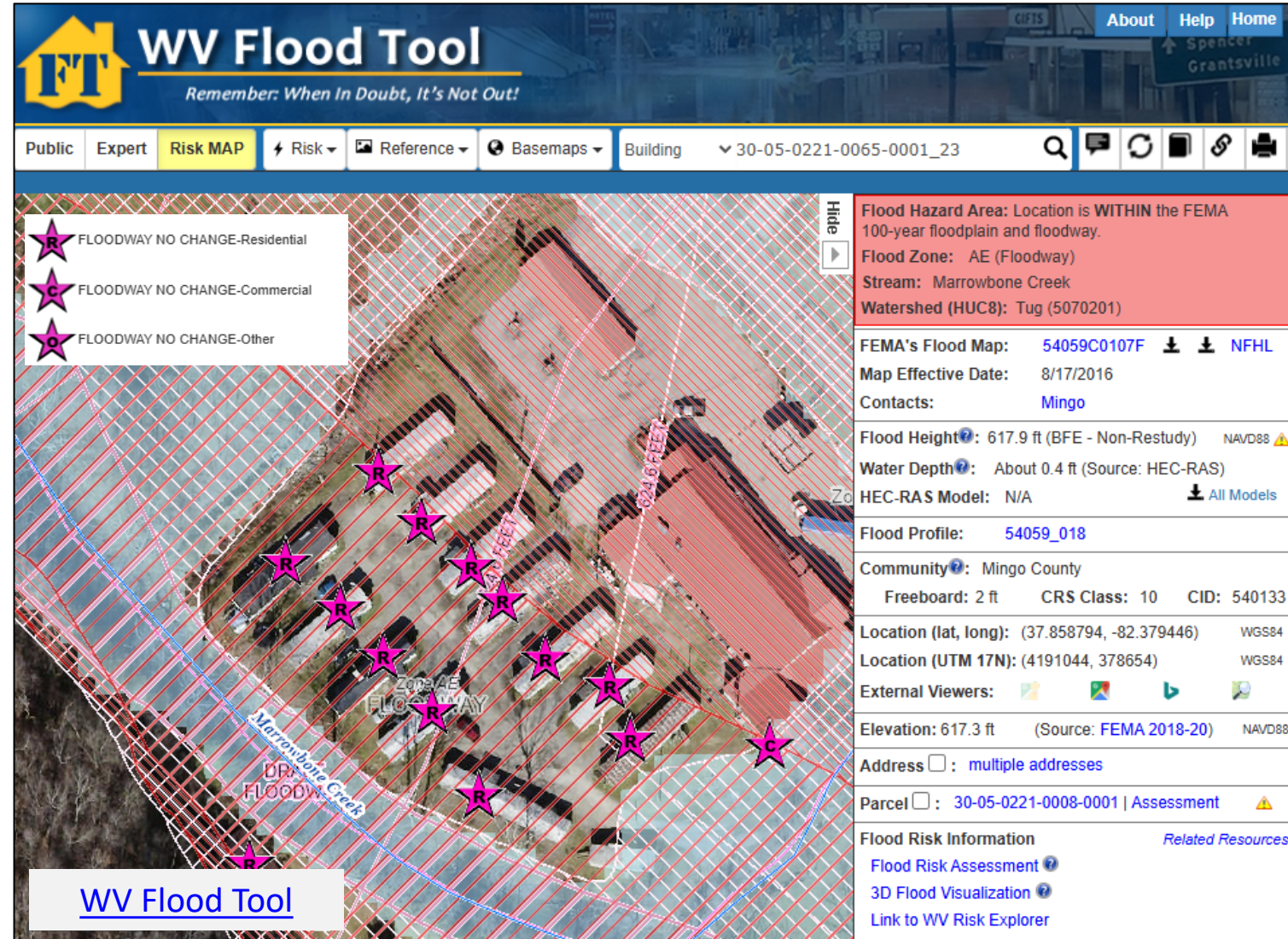
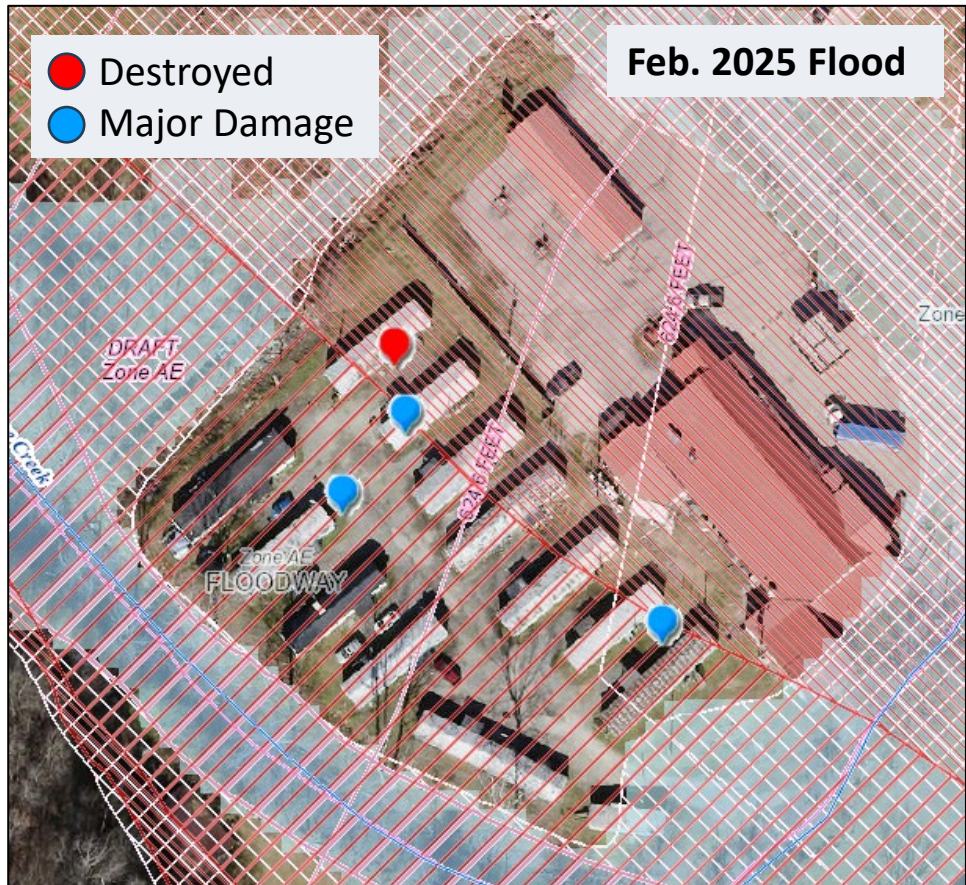
Mobile Home in Floodway Destroyed (Mingo County)



23 ROBIN LN TRLR, MARROWBONE CREEK, WV
Building ID: [30-05-0221-0065-0001_23](#)



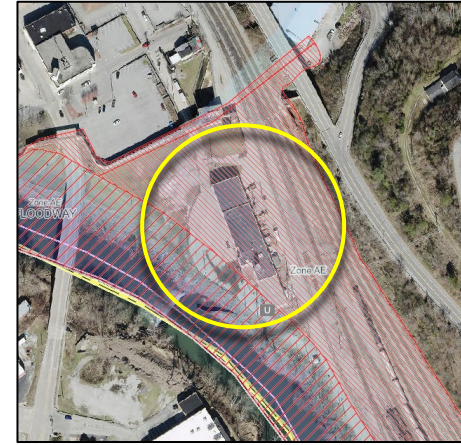
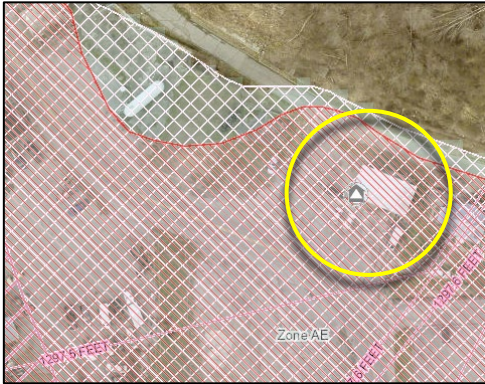
Mobile Home Park in Floodway (Mingo County)



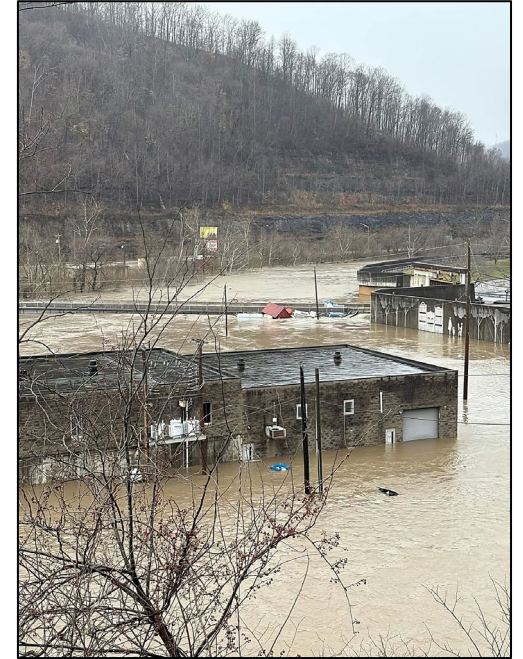
Flooded Significant Structures, Feb. 2025



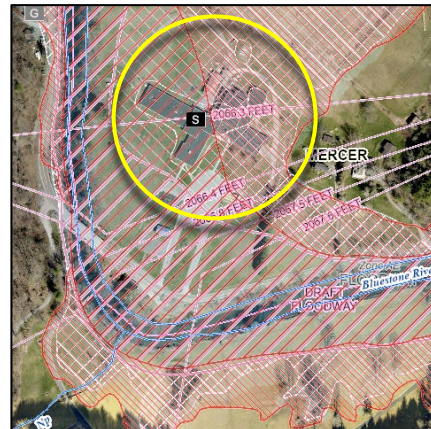
Jan-Care of Guardian Angel (EMS)
Welch, McDowell County
Inundated, Feb. 2025
Building ID: [27-15-0002-0247-0000 58](#)



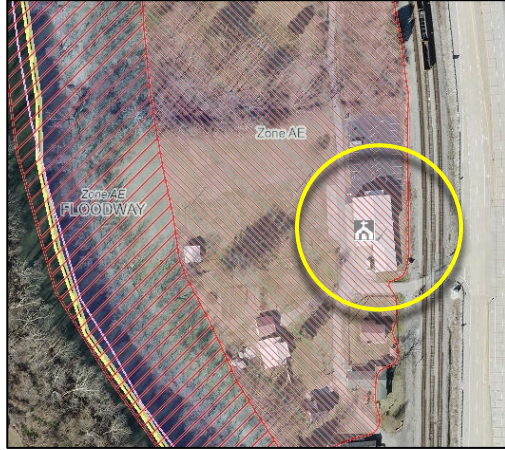
Williamson Water Plant (Veolia Water)
Williamson, Mingo County
Inundated, Feb. 2025
Building ID: [30-11-0007-0233-0000 317](#)



Spanishburg Elementary School
Mercer County
Inundated, Feb. 2025
Building ID: [28-11-0026-0075-0000 8544](#)



Flooded Significant Structures, Feb. 2025...



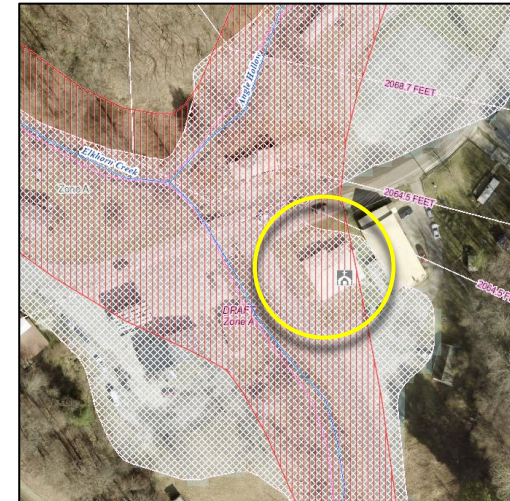
Borderland Baptist Church
Mingo County
Inundated, Feb. 2025
Building ID: [30-10-362K-0010-0000_46](#)



Cornerstone Church
Matewan, Mingo County
Inundated, Feb. 2025
Building ID: [30-08-0009-0071-0000_1028](#)

East Williamson Baptist Church
Williamson, Mingo County
Inundated, Feb. 2025
Building ID: [30-11-0010-0098-0000_9999](#)

[Query: Mingo County, Significant Structures, Religious](#)



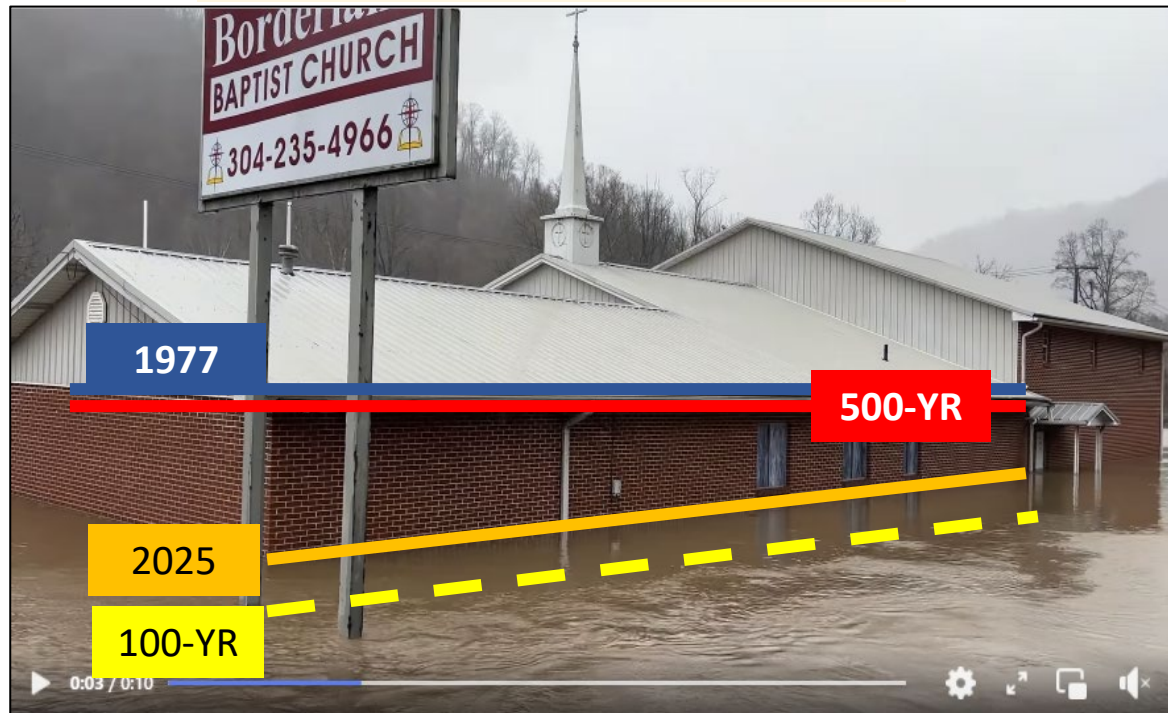
Church Of God Ennis & Maybeury
McDowell County
6 inches of water in basement, Feb. 2025
Building ID: [27-06-0011-0019-0000_40150](#)



Mingo County – Borderland Church (Borderland, WV)



Borderland Church Flood Elevations



46 DESKINS DR, BORDERLAND, WV, 25661

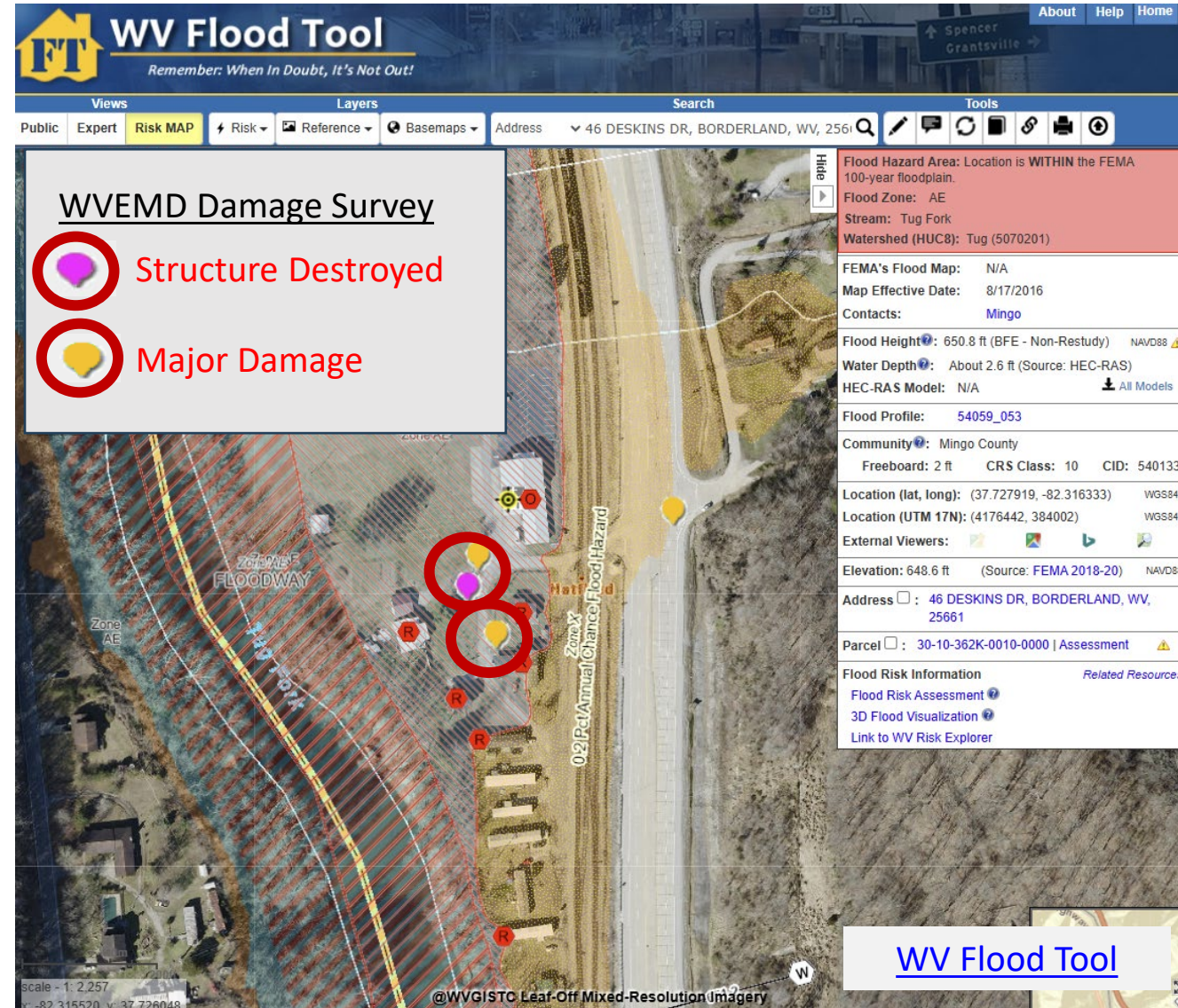
Building ID: [30-10-362K-0010-0000 46](#)

1977 Flood Elev: 659.8 ft. (9 ft. depth)

FEMA 500-YR Elev: 659.8 ft. (9 ft. depth)

2025 Flood Elev: 655.8 ft. (5 ft.; [4 to 5 feet in sanctuary](#))

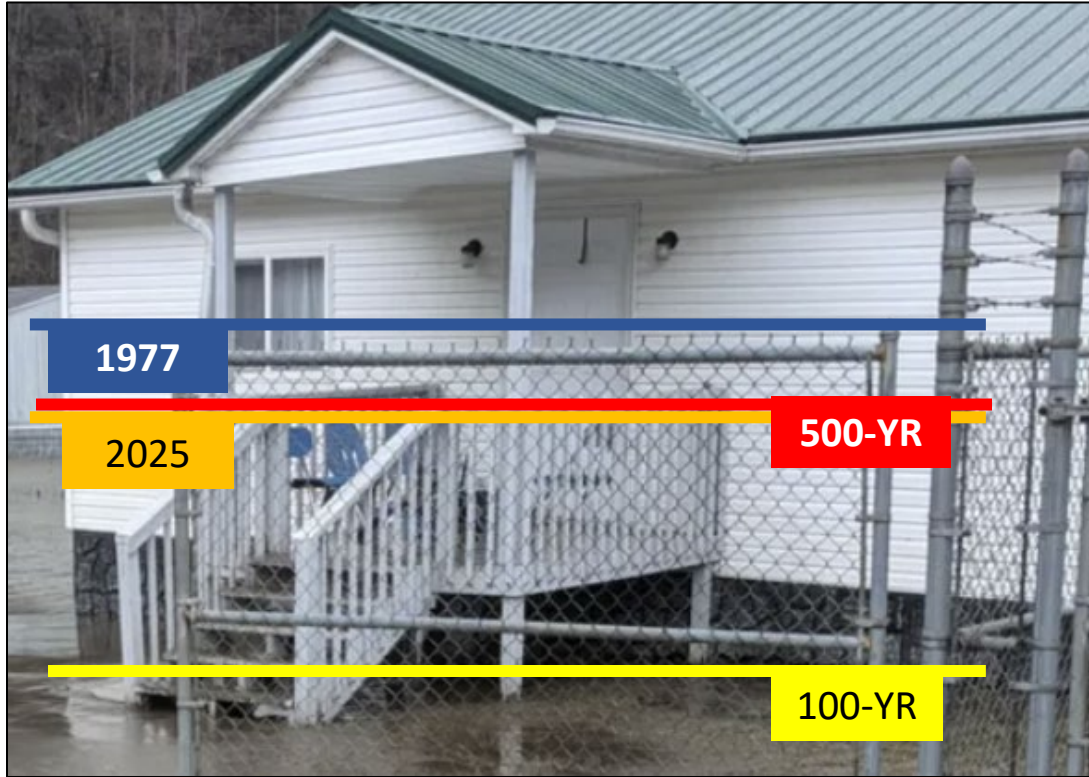
FEMA 100-YR BFE: 650.8 ft. (2.6 ft. depth)



Mingo County – Cornerstone Church (Matewan, WV)



Cornerstone Church Flood Elevations



1028 SR 49, MATEWAN, WV, 25678

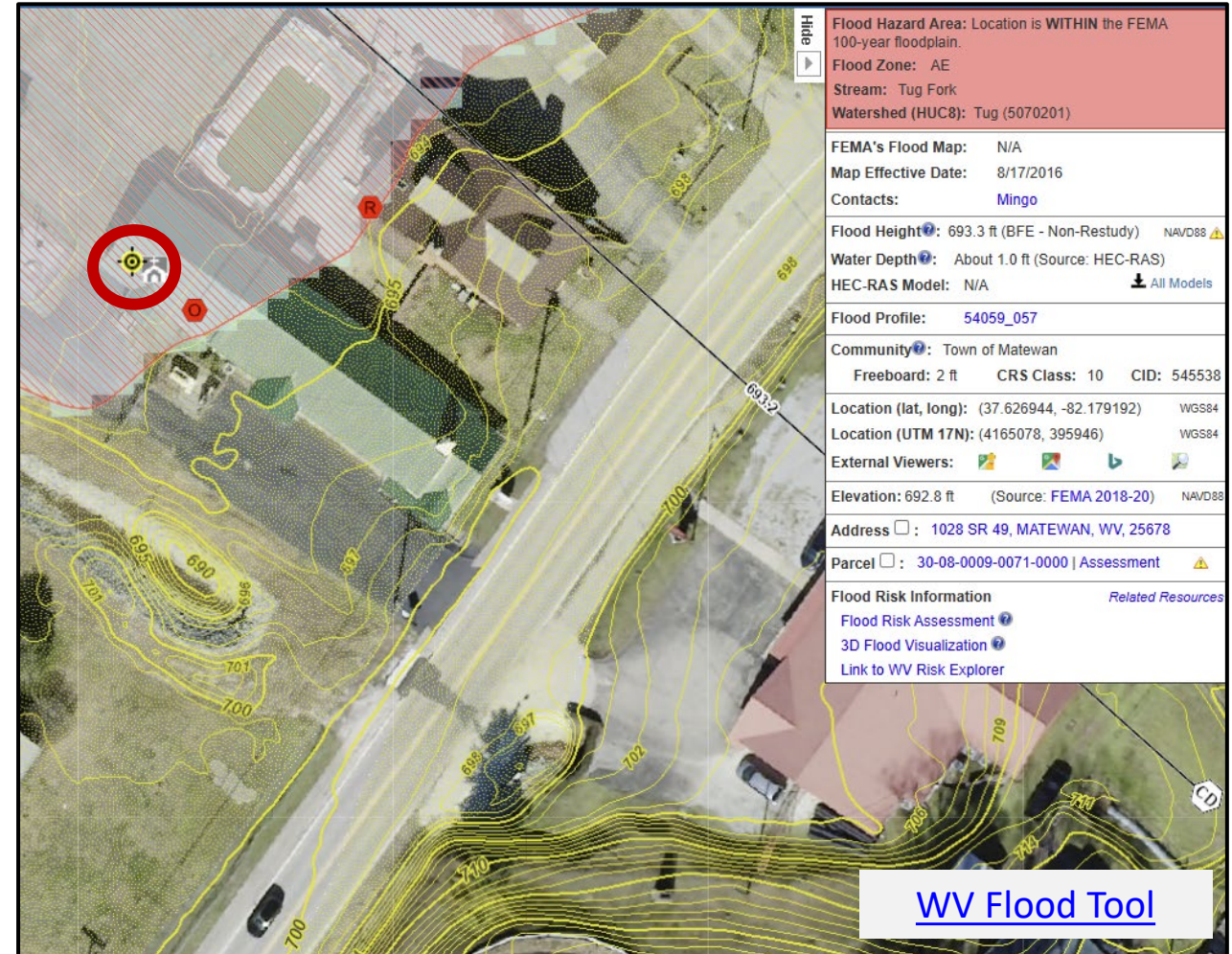
Building ID: [30-08-0009-0071-0000](#) [1028](#)

1977 Flood Elev: 701.3 ft. (8 ft. depth)

FEMA 500-YR Elev: 699.5 ft. (6 ft. depth)

2025 Flood Elev: 699.5 ft. (6 ft.; [2 ft. reported in sanctuary](#))

FEMA 100-YR BFE: 693.3 ft. (1 ft. depth)



Preliminary damage assessment reveals 2025 Flood for this location similar magnitude of FEMA 500-yr Flood Model

Mingo County – Trailers at Rawl, WV



1977 Flood Protection Level
26 ALMOND ST TRLR, RAWL, WV
First Floor Height 10 ft.

Unelevated Trailer
26 WINTERGREEN ST TRLR, RAWL, WV
MAJOR DAMAGE from 2025 Flood

1977

2025

500-YR

100-YR

26 ALMOND ST TRLR, RAWL, WV, 25691
Building ID: [30-10-0008-0060-0000 26](#)

First Floor Height: 696.4 ft. (10 feet)
1977 Flood Elev: 697.6 ft. (8 ft. depth)
FEMA 500-YR Elev: 694.0 ft. (6 ft. depth)
2025 Flood Elev: 693.0 ft. (5 ft. estimate)
FEMA 100-YR BFE: 687.0 ft. (1 ft. depth)
Ground Elevation: 686.4 ft.

Trailers not elevated incurred major damage or destroyed

Mingo County – Trailers at Rawl, WV

[WV Flood Tool](#)



Views: Public Expert **Risk MAP** Risk Reference Basemaps

Layers: Search Address: 1028 SR 49, MATEWAN, WV, 25678

Tools: [Icons for various map tools]

WVEMD Damage Survey

- Structure Destroyed
- Major Damage

1977 Flood Protection Level
26 ALMOND ST TRLR, RAWL, WV
First Floor Height 10 ft.

Mitigated Structure

| | |
|-------------------|--------------------------------------|
| Building ID | 30-10-0008-0060-0000_26 |
| Mitigation Source | USACE (5524FP) |
| Mitigation Type | Elevated - Closed Foundation (≥25ft) |
| Building Info | Solid Wall FFH 10 ft. Built 1989 |
| View Dashboard | Link |
| Picture | |

[Zoom to](#)

Flood Hazard Area: Location is **WITHIN** the FEMA 100-year floodplain.

Flood Zone: AE

Stream: Tug Fork

Watershed (HUC8): Tug (5070201)

FEMA's Flood Map: N/A

Map Effective Date: 8/17/2016

Contacts: [Mingo](#)

Flood Height: 687.0 ft (BFE - Non-Restudy) NAVD88

Water Depth: About 0.6 ft (Source: HEC-RAS)

HEC-RAS Model: N/A [All Models](#)

Flood Profile: [54059_056](#)

Community: Mingo County

Freeboard: 2 ft **CRS Class:** 10 **CID:** 540133

Location (lat, long): (37.648942, -82.188113) WGS84

Location (UTM 17N): (4167529, 395190) WGS84

External Viewers:

Elevation: 686.4 ft (Source: [FEMA 2018-20](#)) NAVD88

Address: ☒ 26 ALMOND ST TRLR, RAWL, WV, 25691

Parcel: ☒ 30-10-0008-0060-0000 | [Assessment](#) [Warning](#)

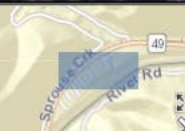
Flood Risk Information [Related Resources](#)

- [Flood Risk Assessment](#)
- [3D Flood Visualization](#)
- [Link to WV Risk Explorer](#)

Trailers not elevated incurred major damage or destroyed

26 ALMOND ST TRLR, RAWL, WV, 25691
Building ID [30-10-0008-0060-0000_26](#)

Scale - 1: 1,128
x: -82.187979, y: 37.648218



Mingo County – New 2024 Cabin (Matewan, WV)



New 2024 Cabin Built in 2024



29 Hatfield Bottom Trail (Built in July 2024)

Building ID: [30-08-0008-0016-0000_29](#)

FEMA 500-YR Elev: 699.0 ft. (6.6 ft. depth)

1977 Flood Elev: 698.3 ft. (5.9 ft. depth)

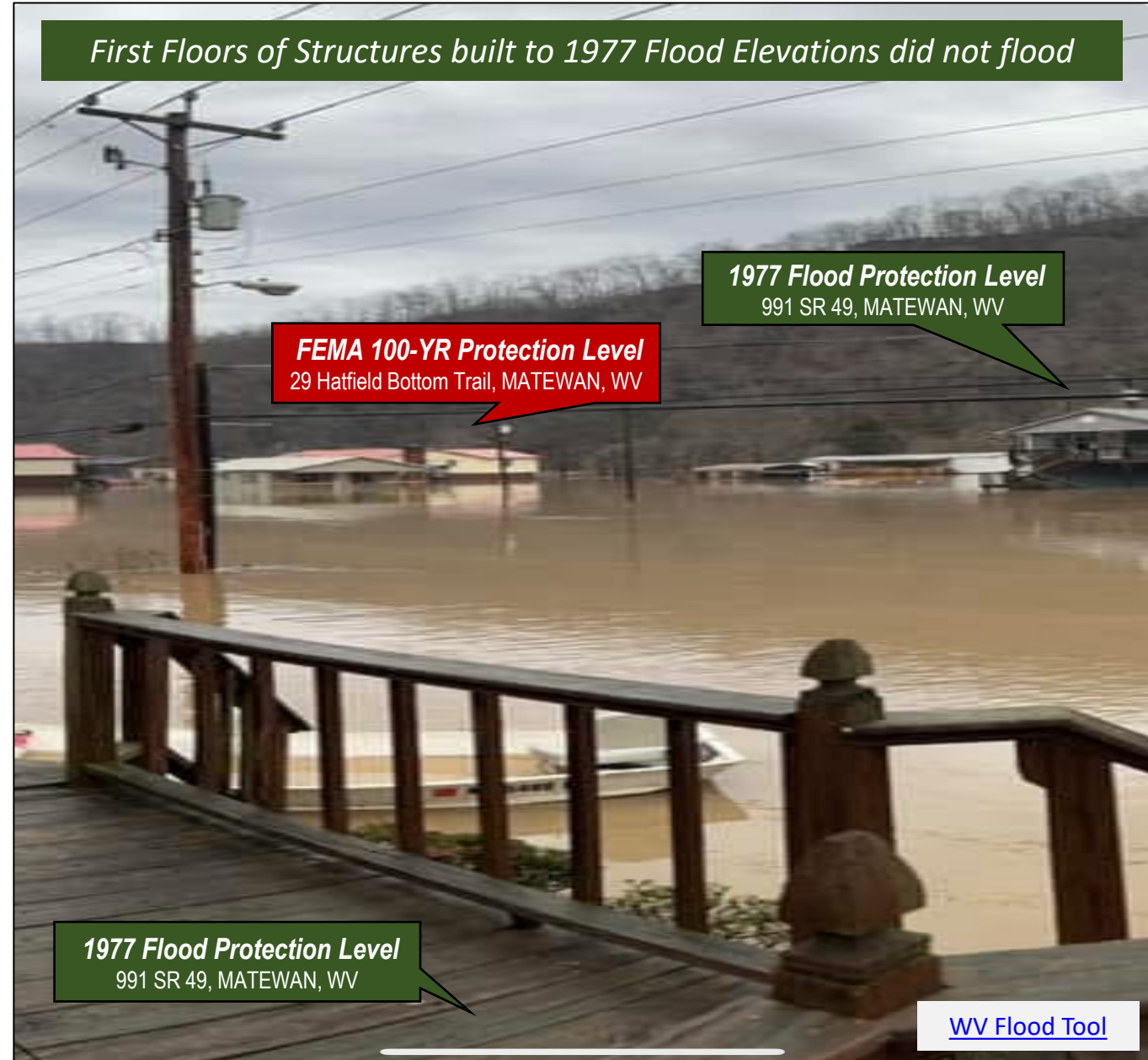
2025 Flood Elev: 697.7 ft. (5.4 ft.; 2 feet reported in cabin)

First Floor Height: 695.7 ft. (3.4 feet above ground)

FEMA 100-YR BFE: 693.0 ft. (0.8 ft. depth)

LAG from EC: 692.4 ft. (Finished Grade)

First Floors of Structures built to 1977 Flood Elevations did not flood

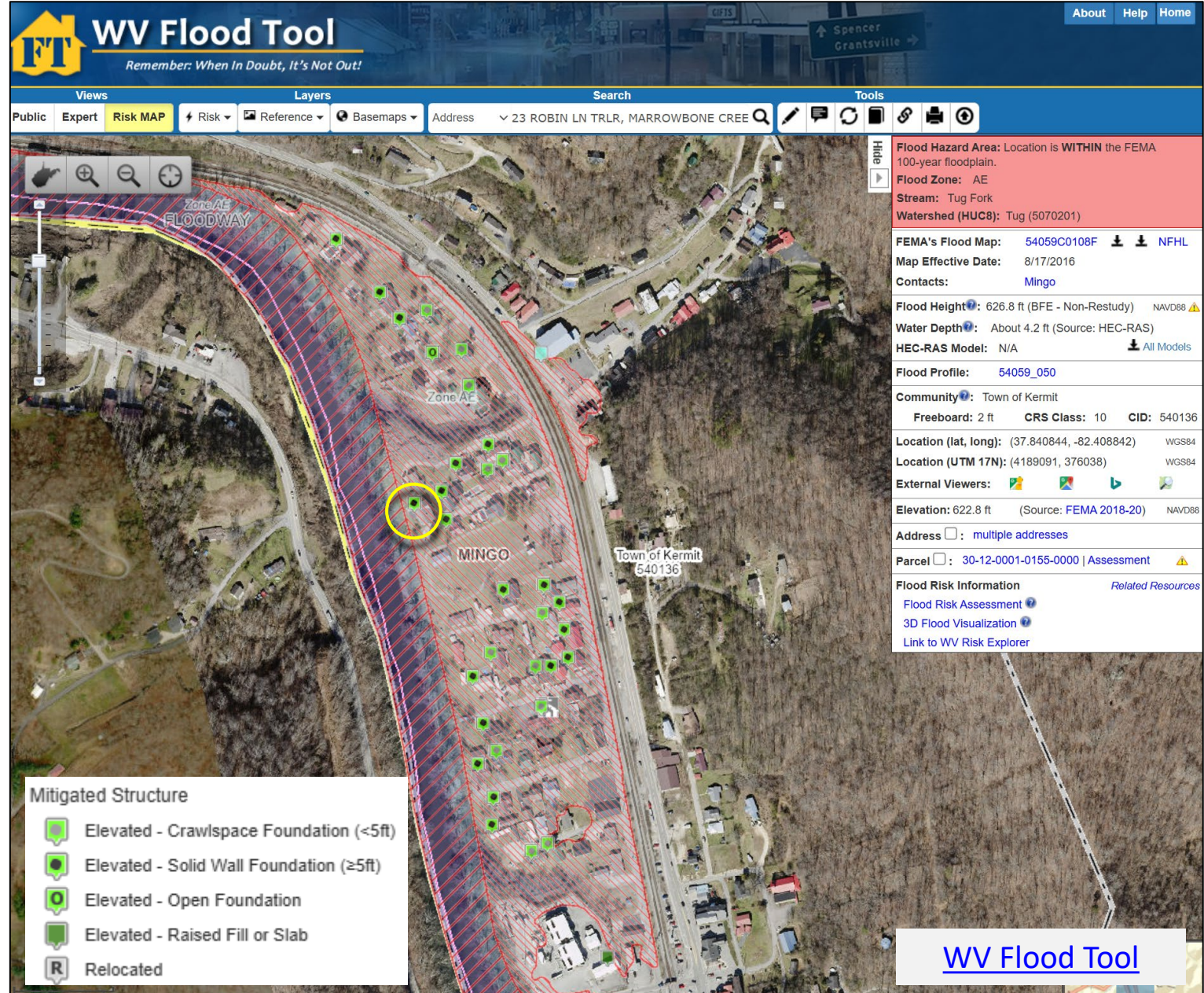


[WV Flood Tool](#)

Mitigated Structures in Kermit, Mingo County




The town of Kermit has one of the highest percentages in the state of mitigated structures in high-risk flood areas



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THE VOICE OF WEST VIRGINIA





Home News Sports Outdoors Podcasts **MetroNews** TELEVISION

Now's the Time  Learn More


NEWS

Many in Kermit clean up and count their blessings

By **Chris Lawrence**
February 17, 2025 - 6:33 pm

"I had them move it down here because I wanted more closet space upstairs. Now I have a \$10,000 closet."



Lea Ruble explains the height of the Tug Fork river in her yard from the weekend in Kermit, W.Va.
PHOTO: Chris Lawrence

No living spaces below the mitigation level
No utility equipment below the mitigation level

USACE TRACT 3316FP (Parcels 30-12-0001-0275-0000 & 1-276)

85 BLANKENSHIP ST, KERMIT, WV, 25674



USACE Section 202
picture of
Floodproofed
Structure 3316FP
taken July 2006

According to Lea Ruble in [news article](#), furnace moved from living quarters to lowest enclosure or basement.

85 BLANKENSHIP ST, KERMIT, WV
Building ID: [30-12-0001-0261-0000](#) 85

Thank you!

Questions?



Framework website: www.wvfrf.org

WV Risk Explorer web tools: www.wvfrf.org/wvre

Email:

kurt.donaldson@mail.wvu.edu

behrang.bidadian@mail.wvu.edu