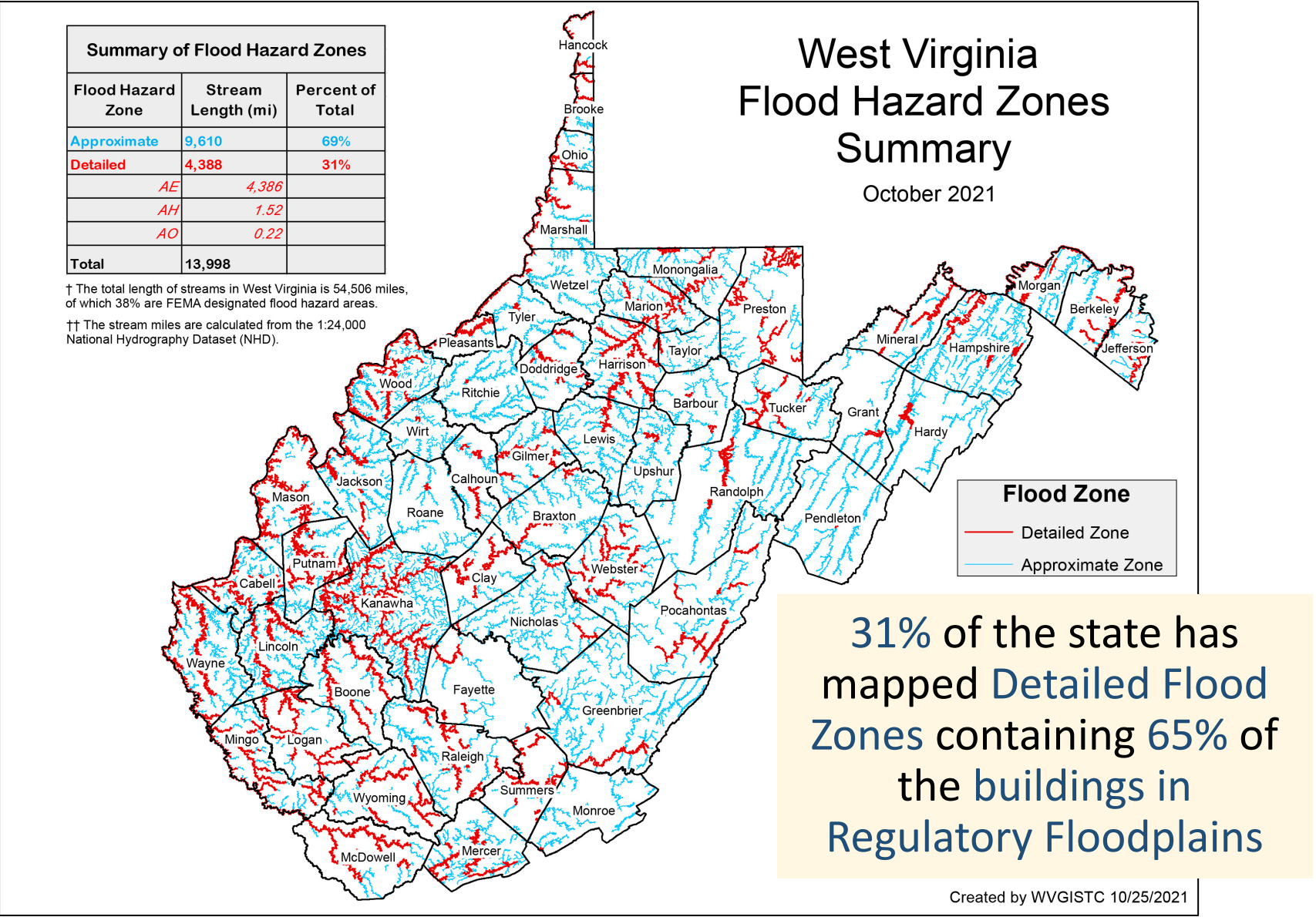


General Information

<input type="checkbox"/> Total Area: 15,500,454 acres	<input type="checkbox"/> Total Population: 1,801,049	<input type="checkbox"/> Number of Households: 711,352
<input type="checkbox"/> Total Structures: 1,118,761	<input type="checkbox"/> Population Density: 74 /sq. mile	<input type="checkbox"/> Average Household Size: 2.5

Floodplain Characteristics

- ❖ Floodplain Length: 17,205 miles of high-risk floodplain
- ❖ Floodplain Length Ratio: 0.0011 miles/acre



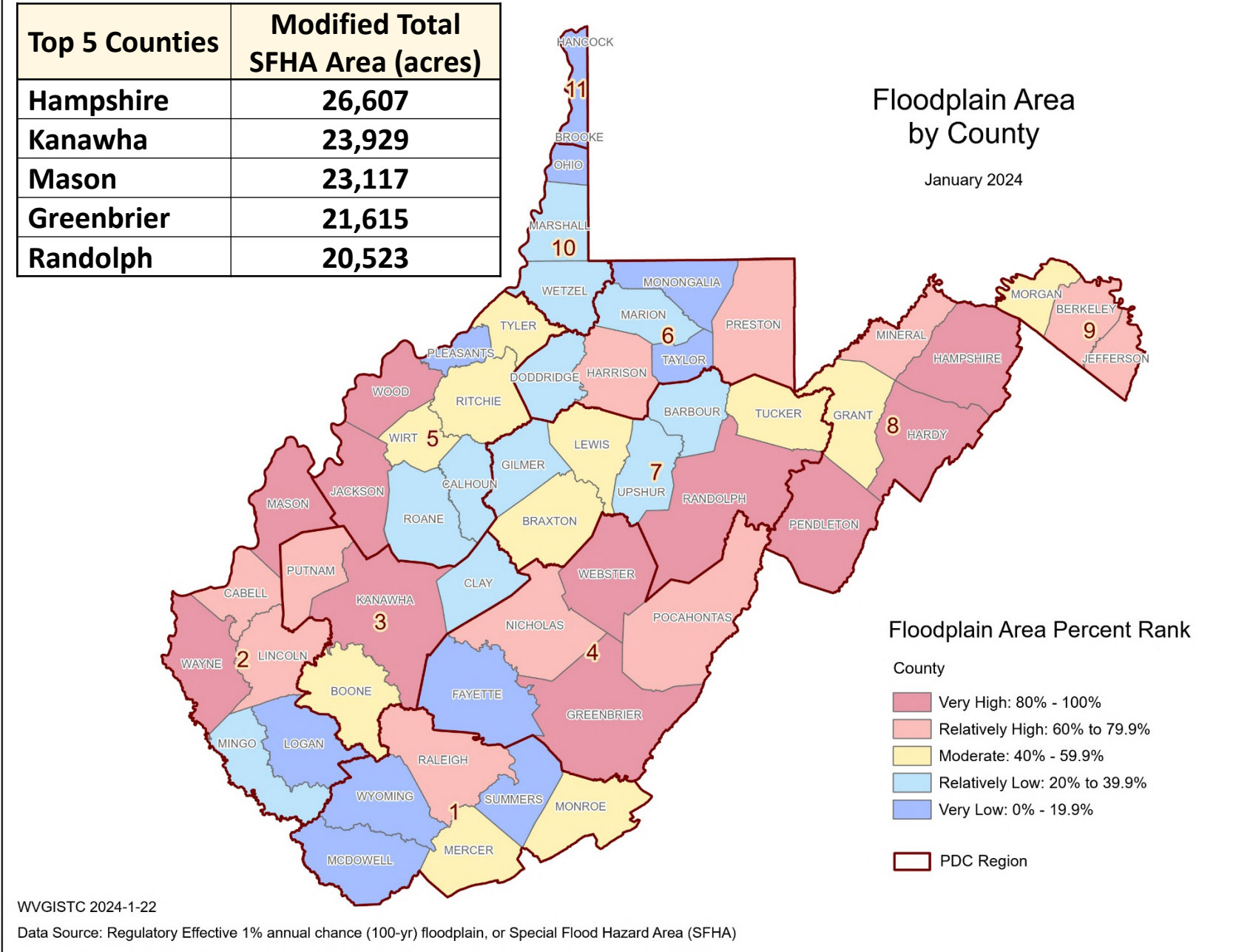
- ❖ Floodplain Area: 528,635 acres of high-risk floodplain
- Modified Area of Regulatory Floodplains (aSFHA) excluding large open water lakes (> 10 acres), large rivers (bank-to-bank > 500 ft.), and federal lands (> 10 acres)
- ❖ Floodplain Area Ratio: 3.4% of the state's area lies within the Special Flood Hazard Area



July 1961 (22 + 2 landslide fatalities), Kanawha County



February 1972 (123 fatalities including 4 missing), Buffalo Creek



- ❖ Flood Depth Median: 1.8 ft (base flood depth)
- ❖ Total Federally-Declared Flood Disasters in the State since 1953: 64 event

Building Exposure

- ❖ Building Floodplain Count: 82,408 Structures
- ❖ Building Floodway Count: 8,237 Structures
- ❖ Building Floodplain Ratio: 7.4% of Buildings in the state
- ❖ Building Density: 0.16 /acre (in floodplain)
 - Buildings in High-Risk Effective Zones: 84,621
 - Buildings in High-Risk Advisory Zones: 13,315
 - Buildings in All High-Risk Floodplains: 97,936 (8.8% of WV Bldgs.)
 - Buildings in Estimated Depths of Greater than 10 ft: 2,088

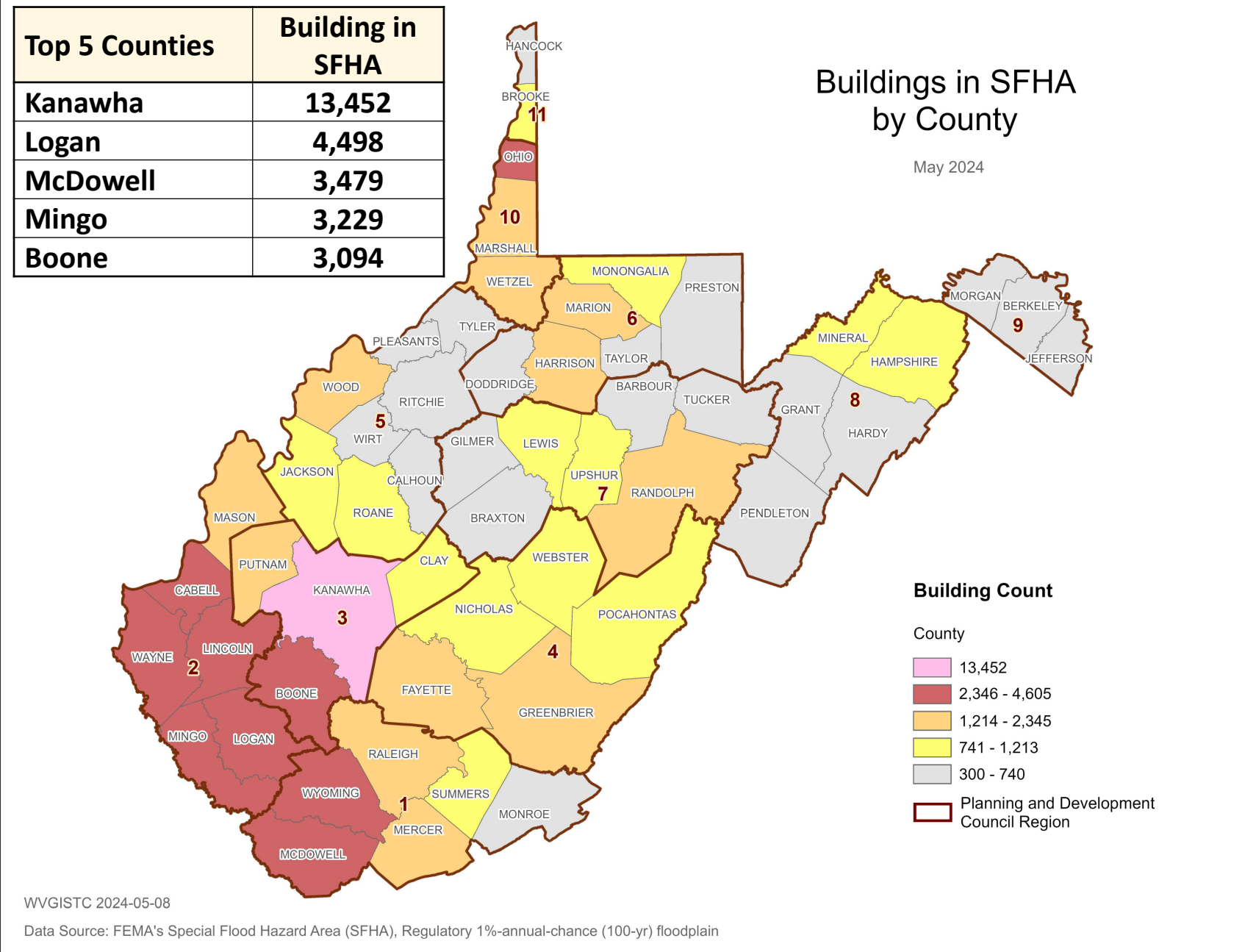


Rainelle



Clendenin

June 2016 (23 fatalities) Richwood

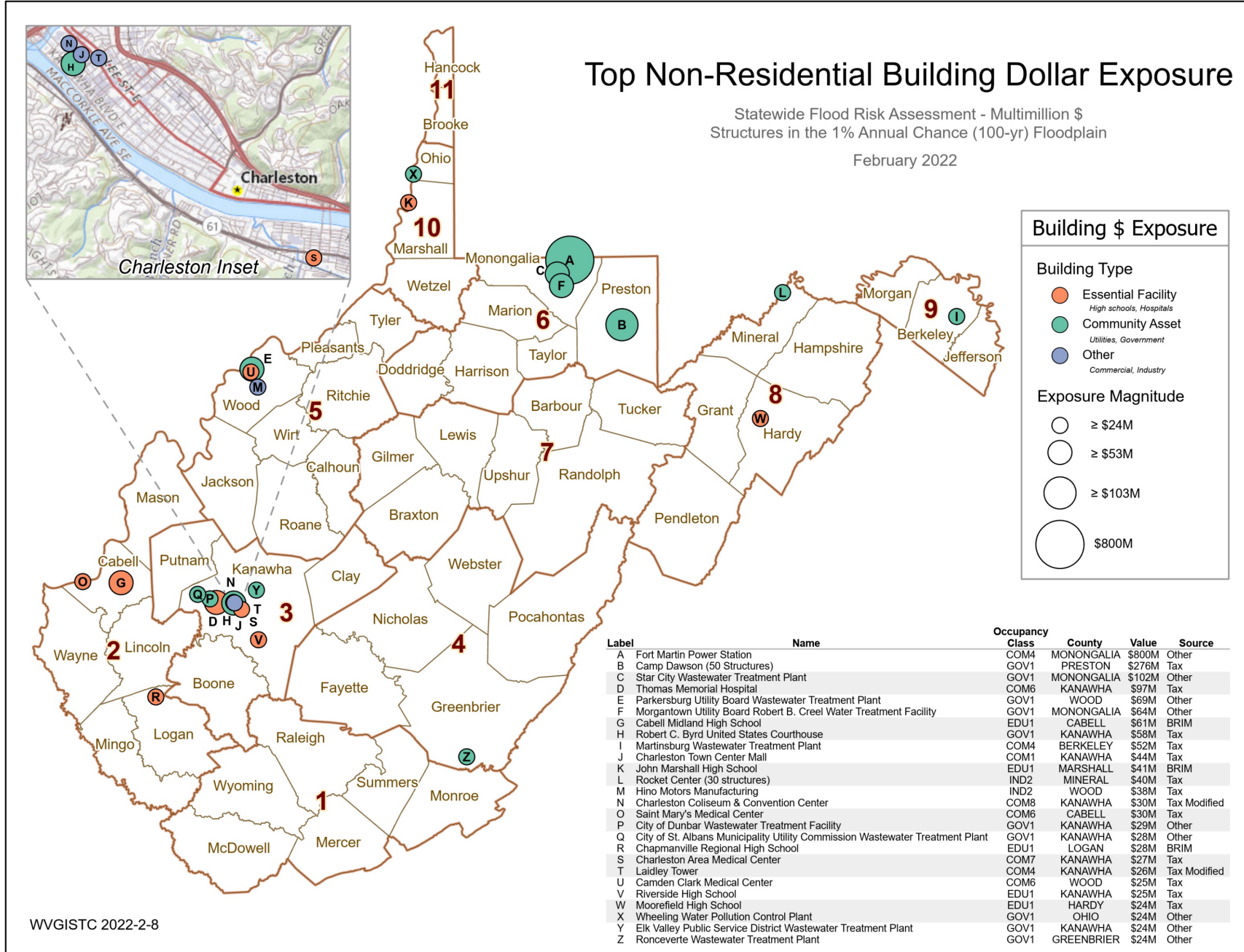
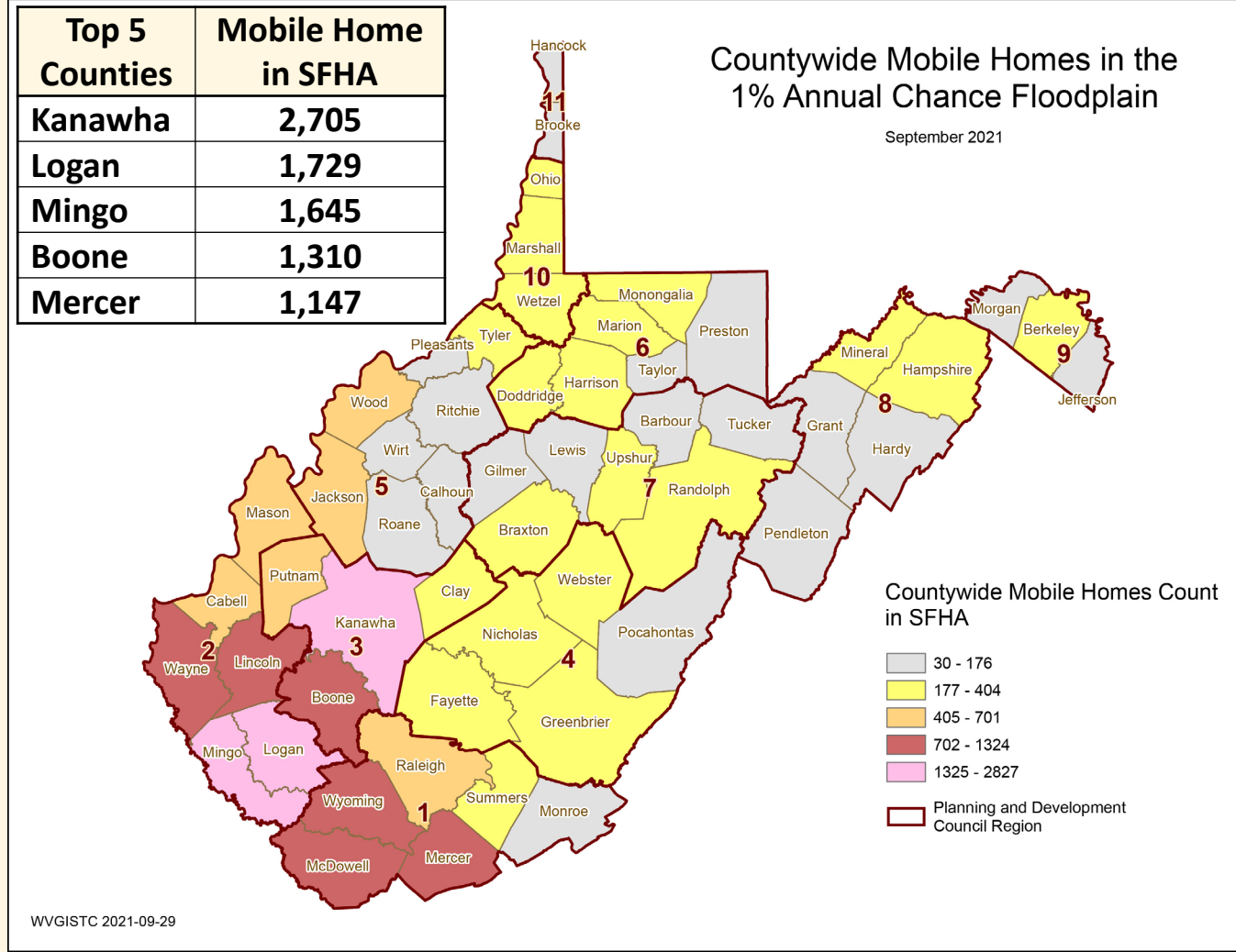


Building Characteristics (in High-Risk Floodplain)

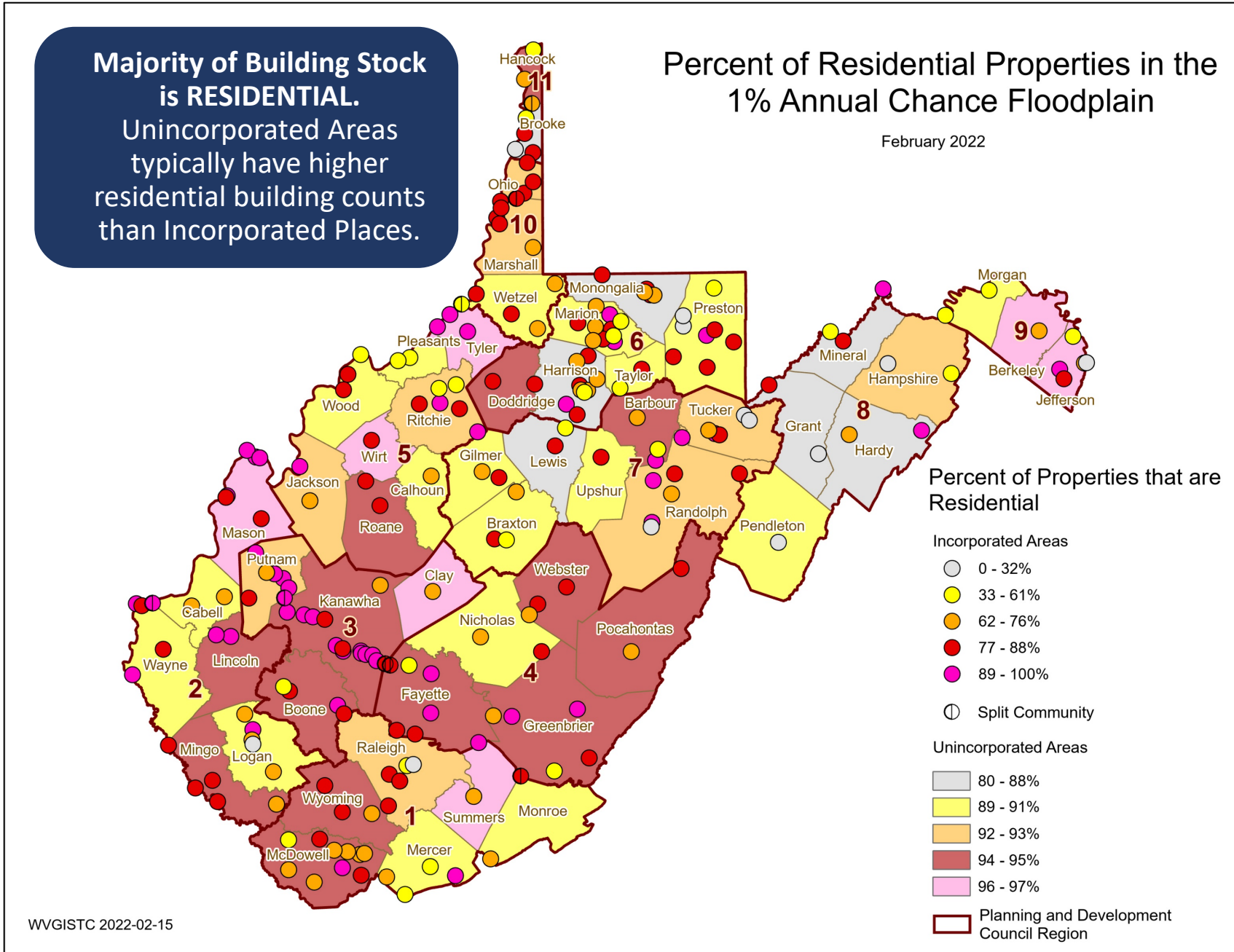
- ❖ Building Median Value: \$38,200 (in floodplain)
- ❖ Bldg. Mobile Homes Ratio: 27.5% of single-family dwellings in floodplain are manufactured homes (Count: 23,315)
- ❖ Bldg. Subgrade Basements Ratio: 24.8% of floodplain buildings have subgrade basements (Count: 24,323)
- ❖ Building 1-Story Ratio: 84.0% of floodplain buildings have only one story (Count: 82,201)
- ❖ Bldg. Year Pre-FIRM Ratio: 77.5% of floodplain buildings are Pre-FIRM or built with no FIRM in effect (Count: 75,804)
- ❖ Bldg. Year Minus Rated Post-FIRM Ratio: 5.8% of floodplain buildings are Post-FIRM with lowest floor below Base Flood Elevation (BFE) (Count: 4,740)
 - Total Building Value in High-Risk Floodplain: \$9,971M
 - Residential (1-4 Units) Building Count in High-Risk Floodplain: 86,732 (88.5% of total count)
 - Residential (1-4 Units) Building Value in High-Risk Floodplain: \$4,344M (43.5% of total value)
 - Non-Residential (including Apartments) Building Count in High-Risk Floodplain: 11,204 (11.5% of total count)
 - Non-Residential (including Apartments) Building Value in High-Risk Floodplain: \$5,627M (56.5% of total value)



Near Kimball, McDowell County, July 2001




White Sulphur Springs, June 2016




Critical Infrastructure (in High-Risk Floodplain)

❖ Essential Facilities: 489 of 1,696 essential facilities (28.8%) in moderate or high-risk floodplains




Police Station

88 of 312
(28%)




Fire Station

187 of 548
(34%)




E-911 Dispatch

10 of 54
(19%)



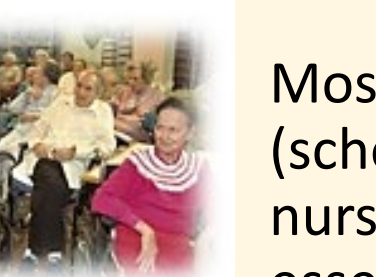
School

170 of 828
(21%)



Hospital

15 of 67
(22%)



Nursing Home

19 of 111
(17%)

Most Vulnerable: 262
(schools, hospital,
nursing homes, or other
essential facilities in
floodway or in estimated
flood depths ≥ 3 ft)



Williamson, Mingo County, February 2025



Marlinton, November 1985



Richwood, June 2016

❖ Roads Inundated: 6,503 miles of total 109,052 miles (6%) estimated to be flooded by a 1% annual chance (100-year) major flood

- Bridges Inundated: 2,603 of 7,349 public bridges (35%) can be inundated by a 1% annual chance flood.
- Railroads Inundated: 617 miles of total 3,284 miles (19%) can be inundated by a 1%-annual-chance flood.



McDowell County, February 2025

At-Risk Community Assets

- ❖ Historical Community Assets: 2,758 in high-risk floodplain
- ❖ Non-Historical Community Assets: 2,092 in high-risk floodplain


Building Damage Loss

- ❖ Substantial Damage Count: 6,493 buildings substantially damaged (≥ 50% of appraised value) by a 1%-annual-chance (100-year) flood
- ❖ Substantial Damage Ratio: 7.9% of buildings in floodplain substantially damaged by a major storm
- ❖ Previous Damage Claims: 27,882 buildings with prior damage claims
- ❖ Repetitive Loss Structures: 9,698 buildings with at least 2 paid flood losses, of more than \$1,000 each, in any 10-year period since 1978
 - Total Estimated Building Loss: \$858M (8.6% of total building value in high-risk floodplain)
 - Building Loss Median Value: \$5,970
 - Total Estimated Debris: 521,283 tons




Welch, McDowell County, February 2025

Most Vulnerable Non-Historical : 616
(in floodway or in estimated flood depths ≥ 3 ft)




Religious Organization

1,450




Educational Building

21




Emergency Medical Services

24




Government Building

423




Utility

166




National Register Historical Structure

94



In Historic District Older than 1930

2,664



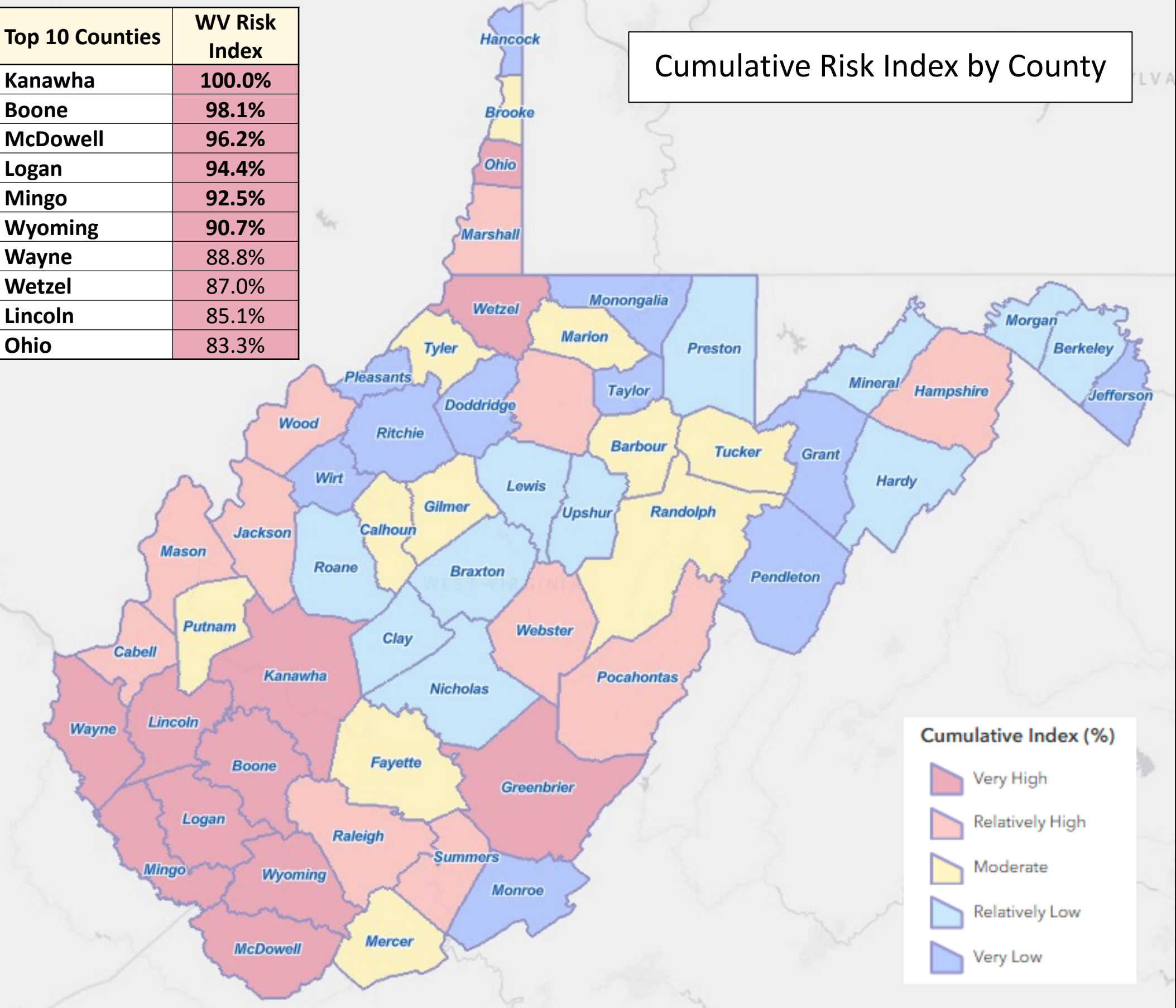
Other Assets

8

People / Social Vulnerabilities

- ❖ Population in Floodplain Ratio: 11.0% of the state's population (198,888 persons) residing in the high-risk flood zone
- ❖ Population Displaced Ratio: 6.6% of the state's population (119,350 persons) displaced by a 1%-annual-chance (100-year) flood event
 - Short-Term Shelter Population: 23,003 persons
 - Short-Term Shelter Companion Pets: 6,411 (4,057 dogs and 2,354 cats)

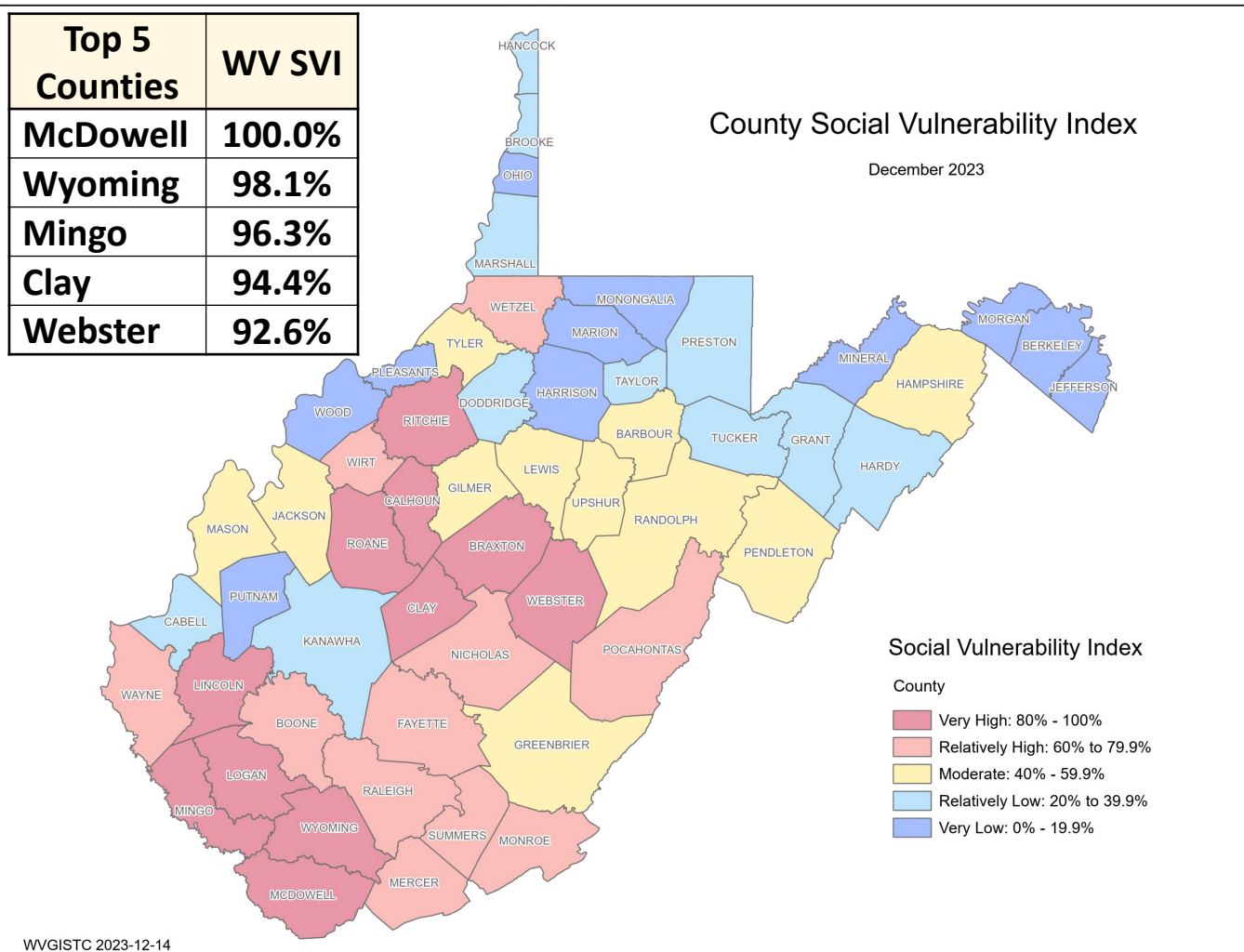
Cumulative Risk Index



Social Vulnerability Index (WV SVI) (0% to 100%)

Combines indicators of:

- Poverty Rate
- Unemployment Rate
- Vulnerable Ages Rate
- Disability Rate
- Population without a High School Diploma
- Population Change
- Median Housing Unit Value
- Percentage of Mobile Homes in Housing Units



White Sulphur Springs, June 2016



Rainelle, June 2016



Rainelle, June 2016

2016 Flood Fatalities: 23 Victims

- Three younger than 15 yrs.
- Eleven 15 to 64 yrs.
- Nine over 65 yrs.
- Five with Health Conditions or Disabilities
- Nine Risky Behavior

