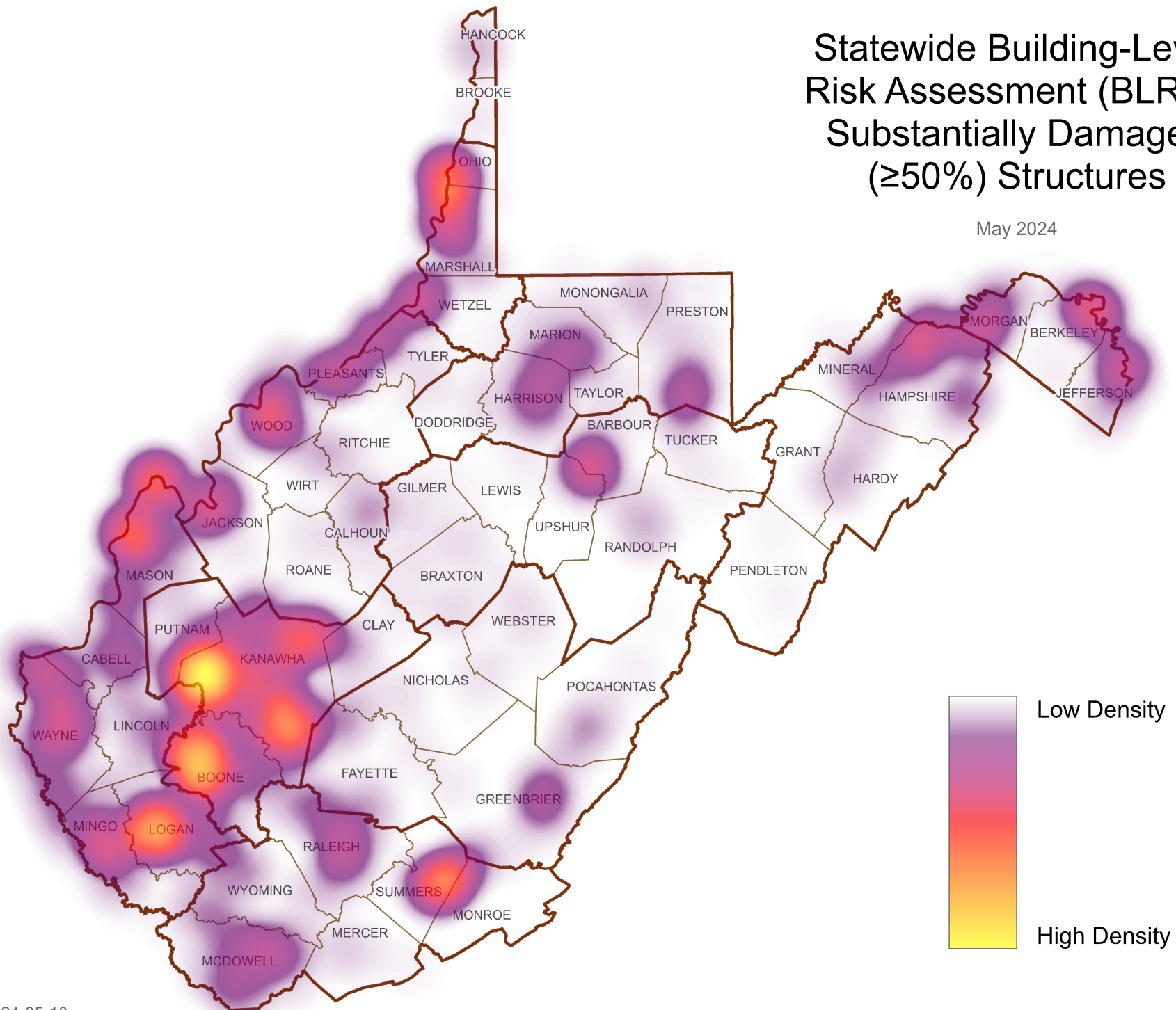


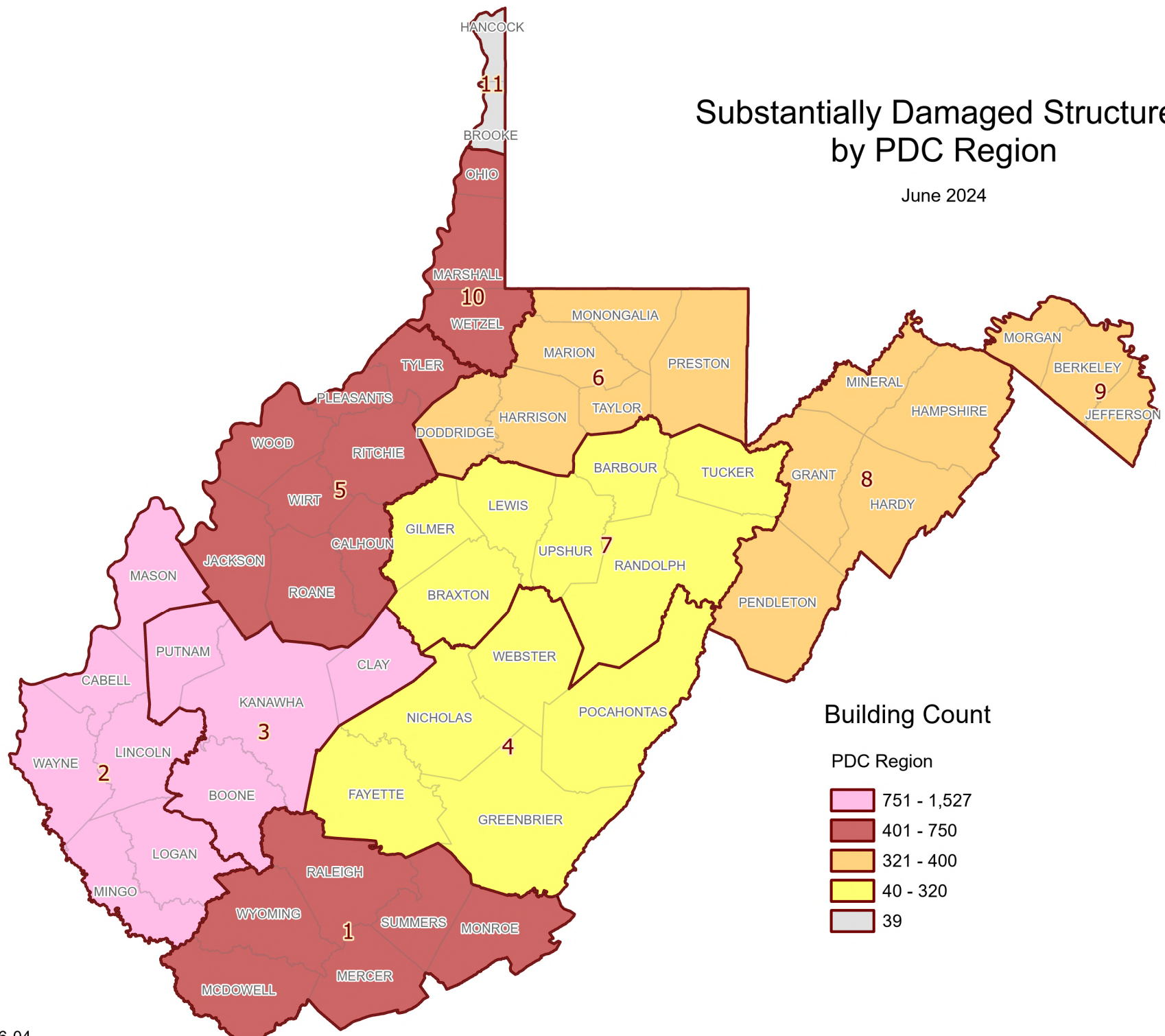
# Statewide Building-Level Risk Assessment (BLRA): Substantially Damaged (≥50%) Structures

May 2024



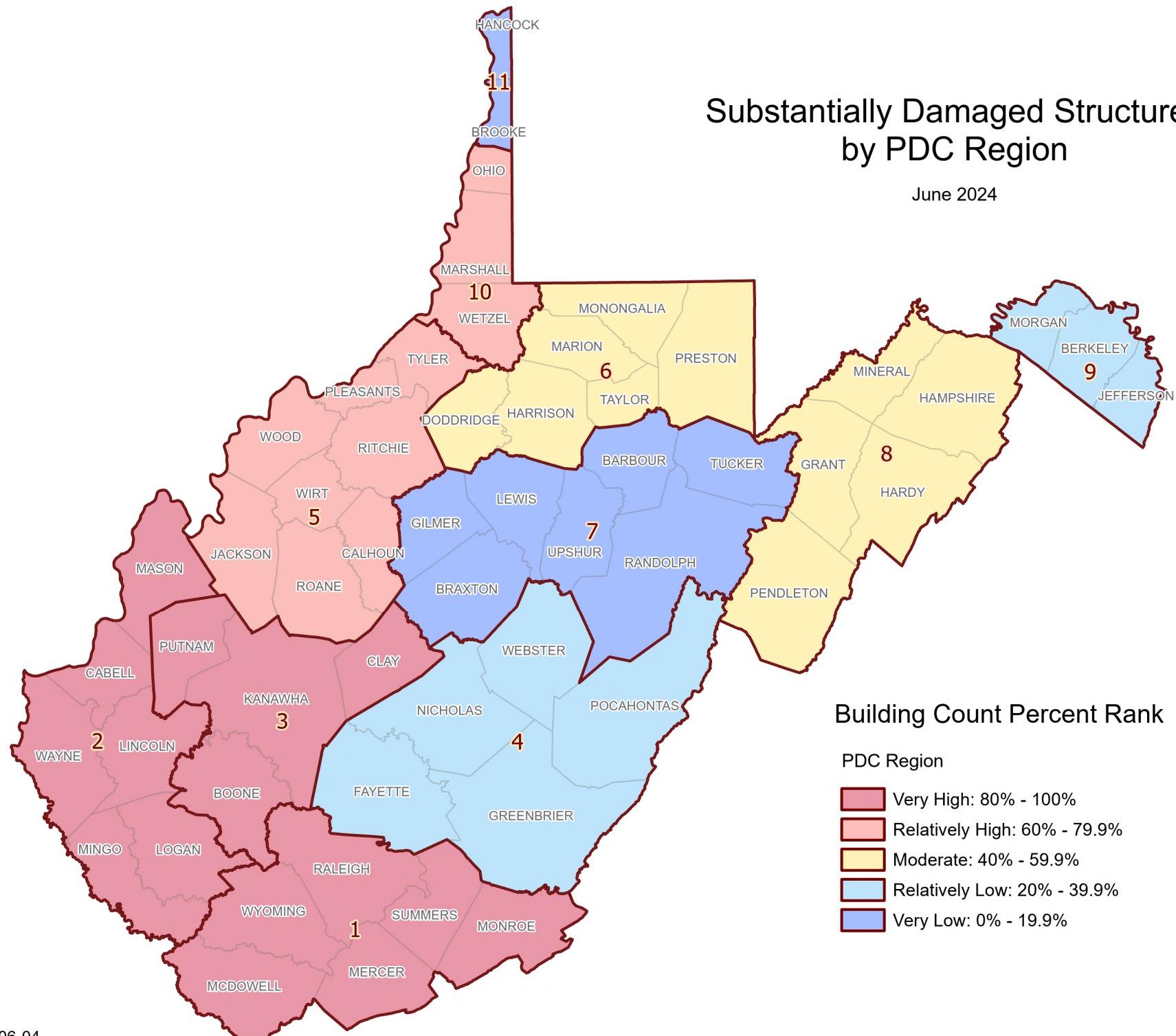
# Substantially Damaged Structures by PDC Region

June 2024



# Substantially Damaged Structures by PDC Region

June 2024



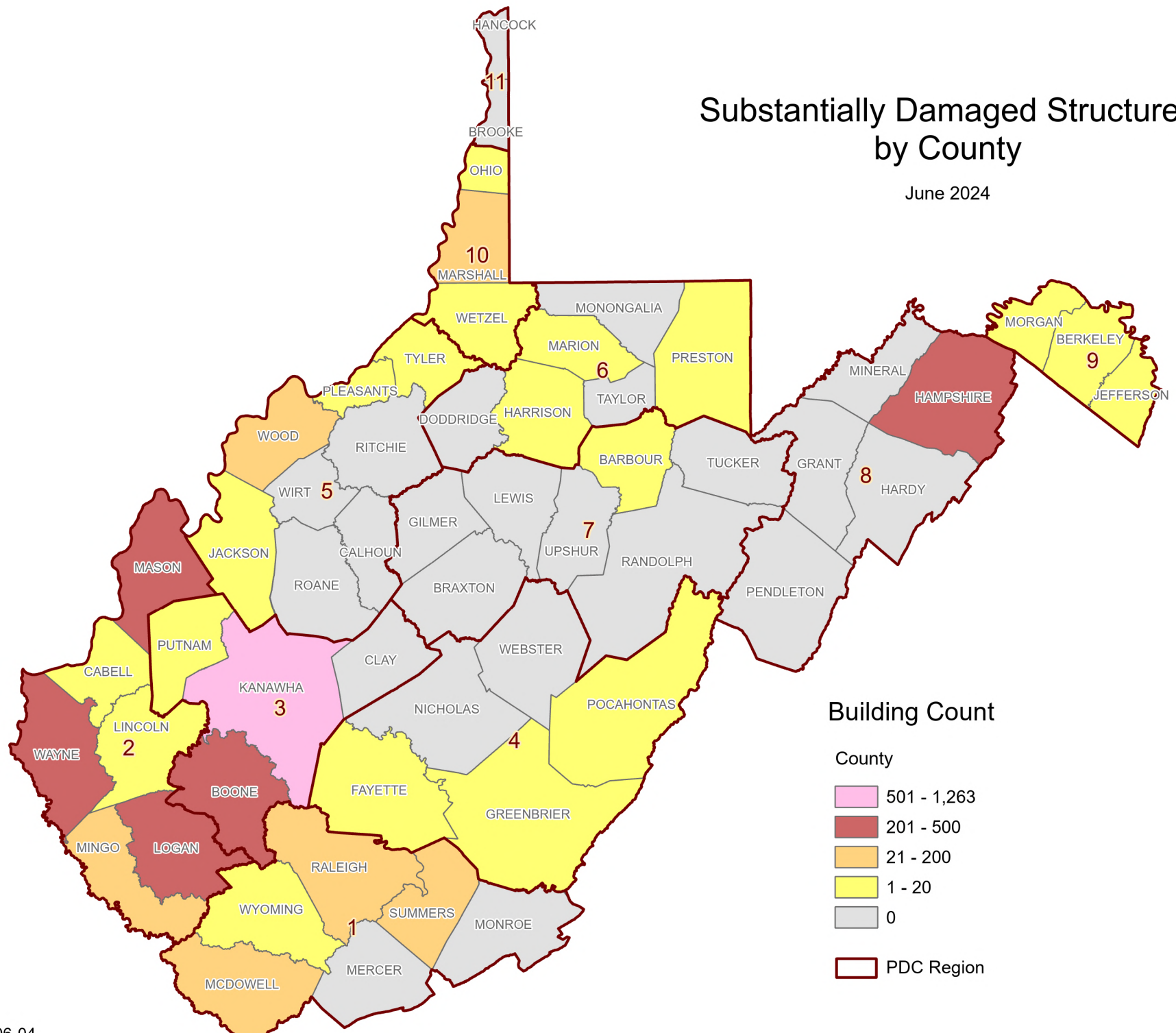
## August 2021





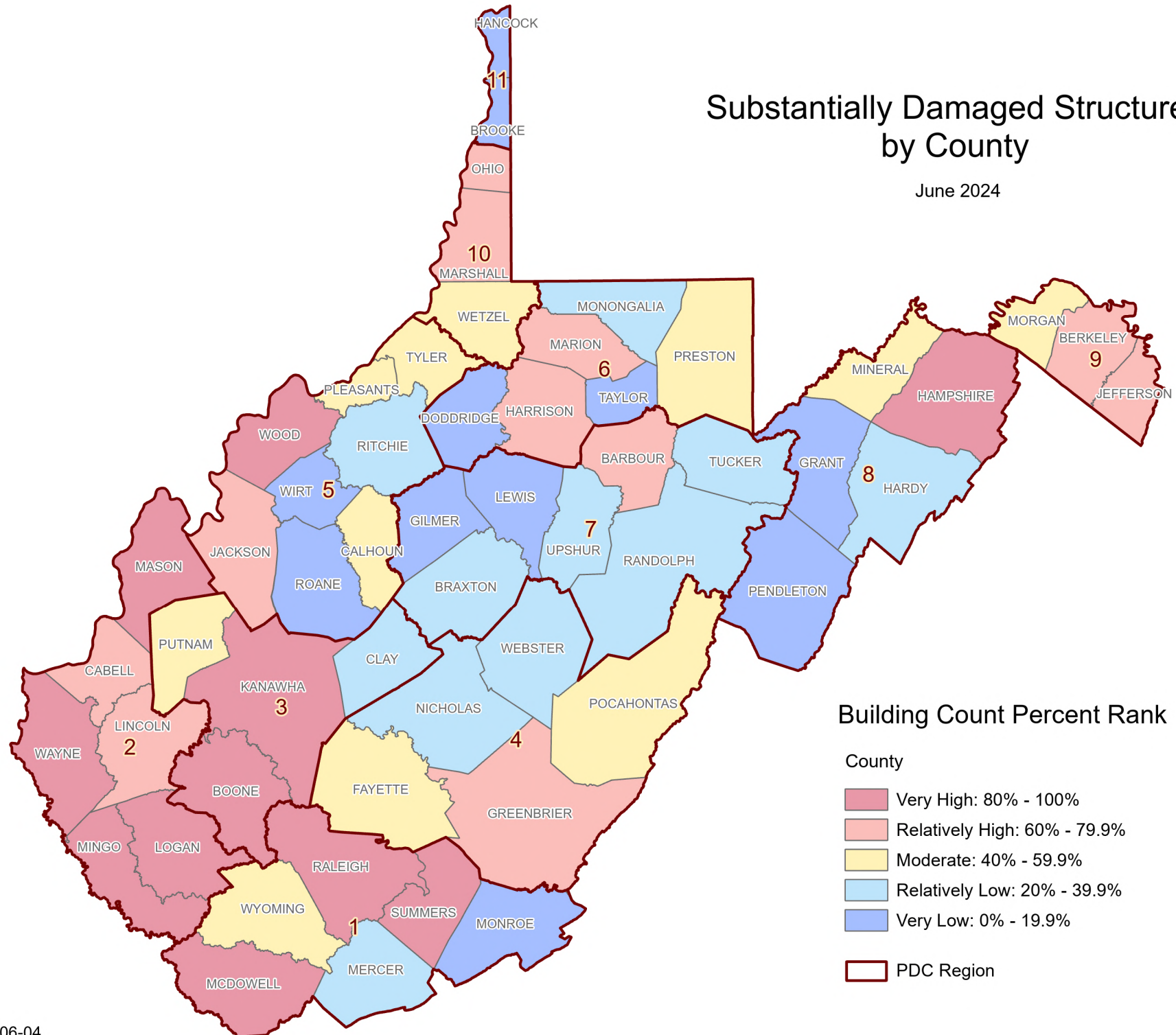
# Substantially Damaged Structures by County

June 2024



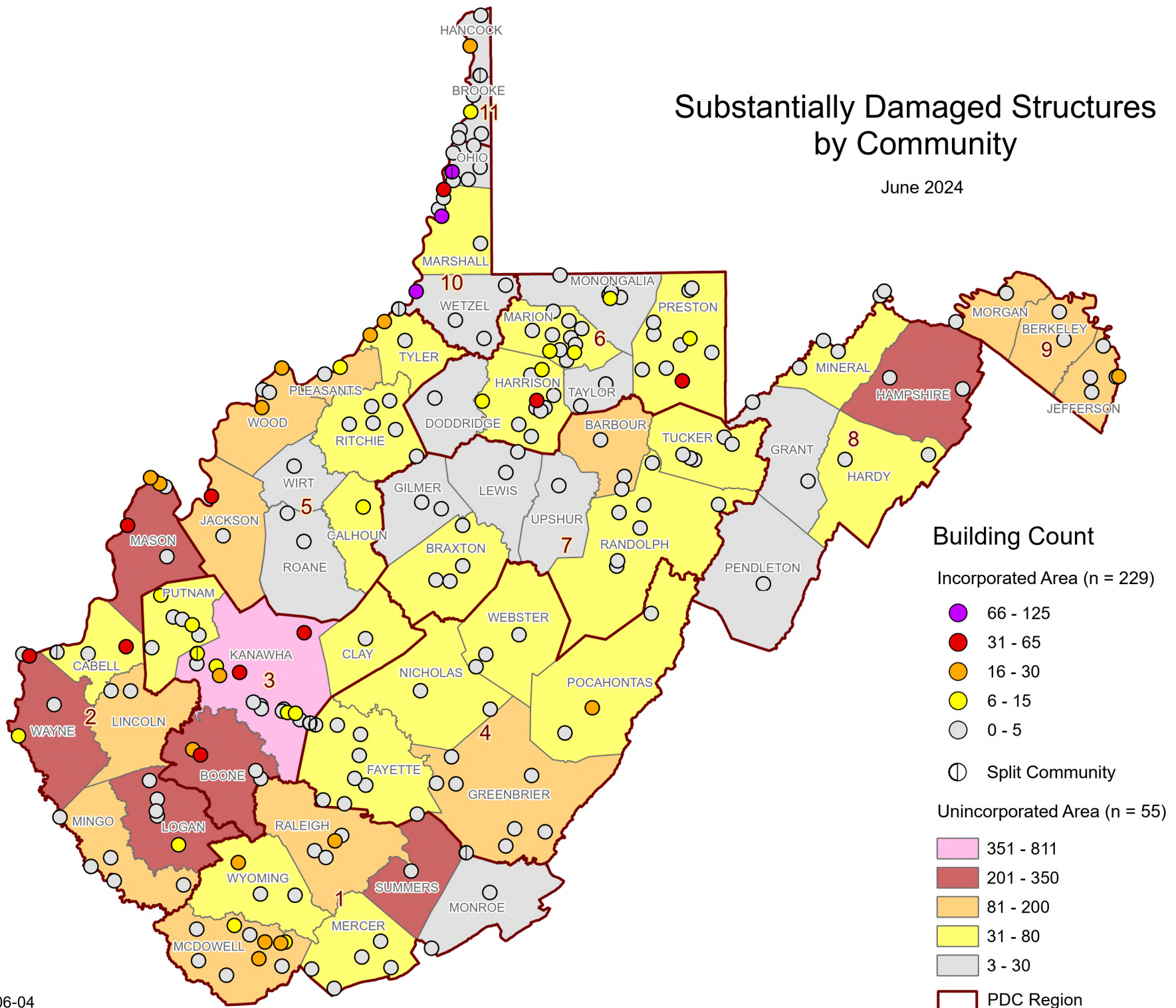
# Substantially Damaged Structures by County

June 2024



## Substantially Damaged Structures by Community

June 2024



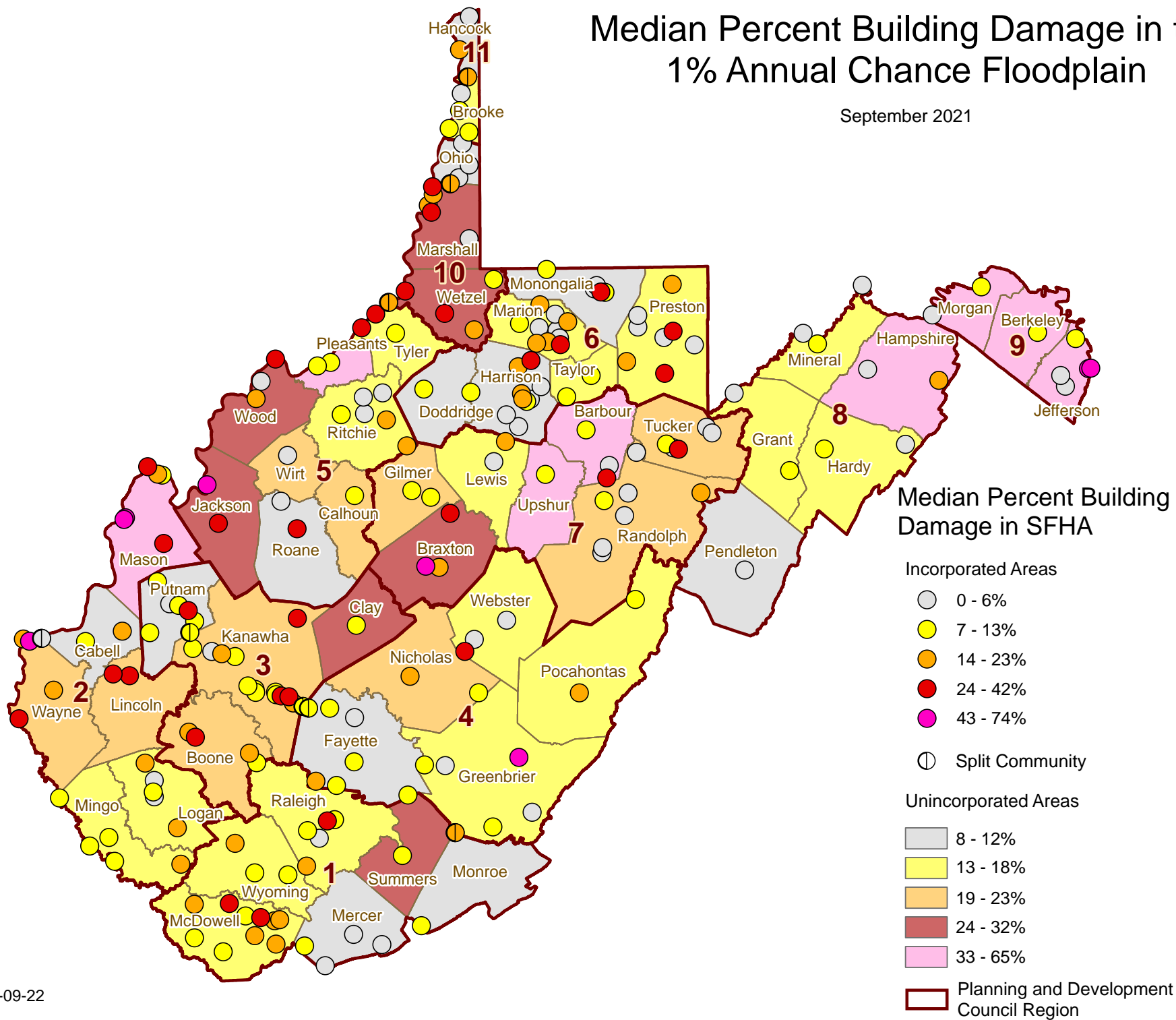






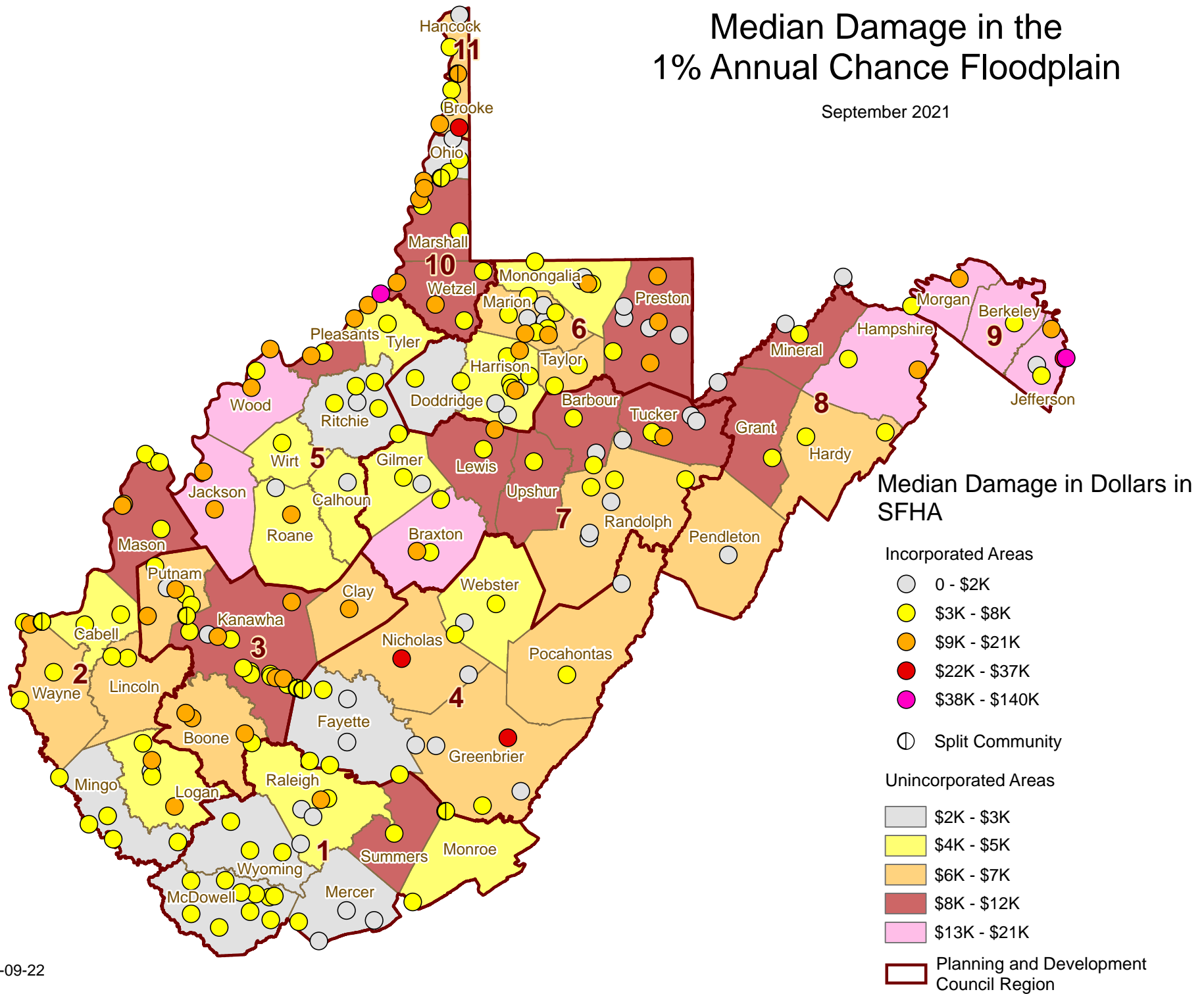
## Median Percent Building Damage in the 1% Annual Chance Floodplain

September 2021



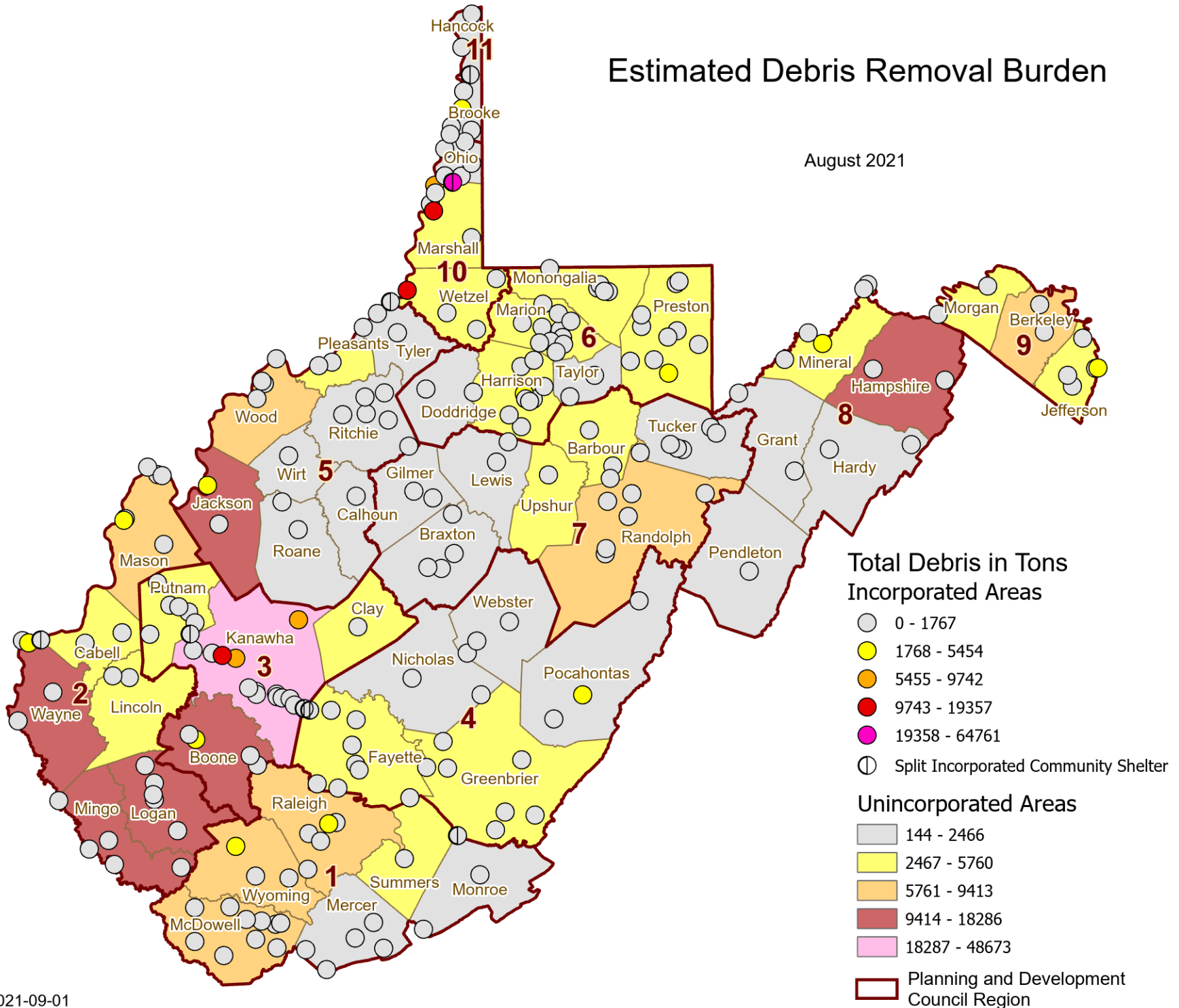
# Median Damage in the 1% Annual Chance Floodplain

September 2021



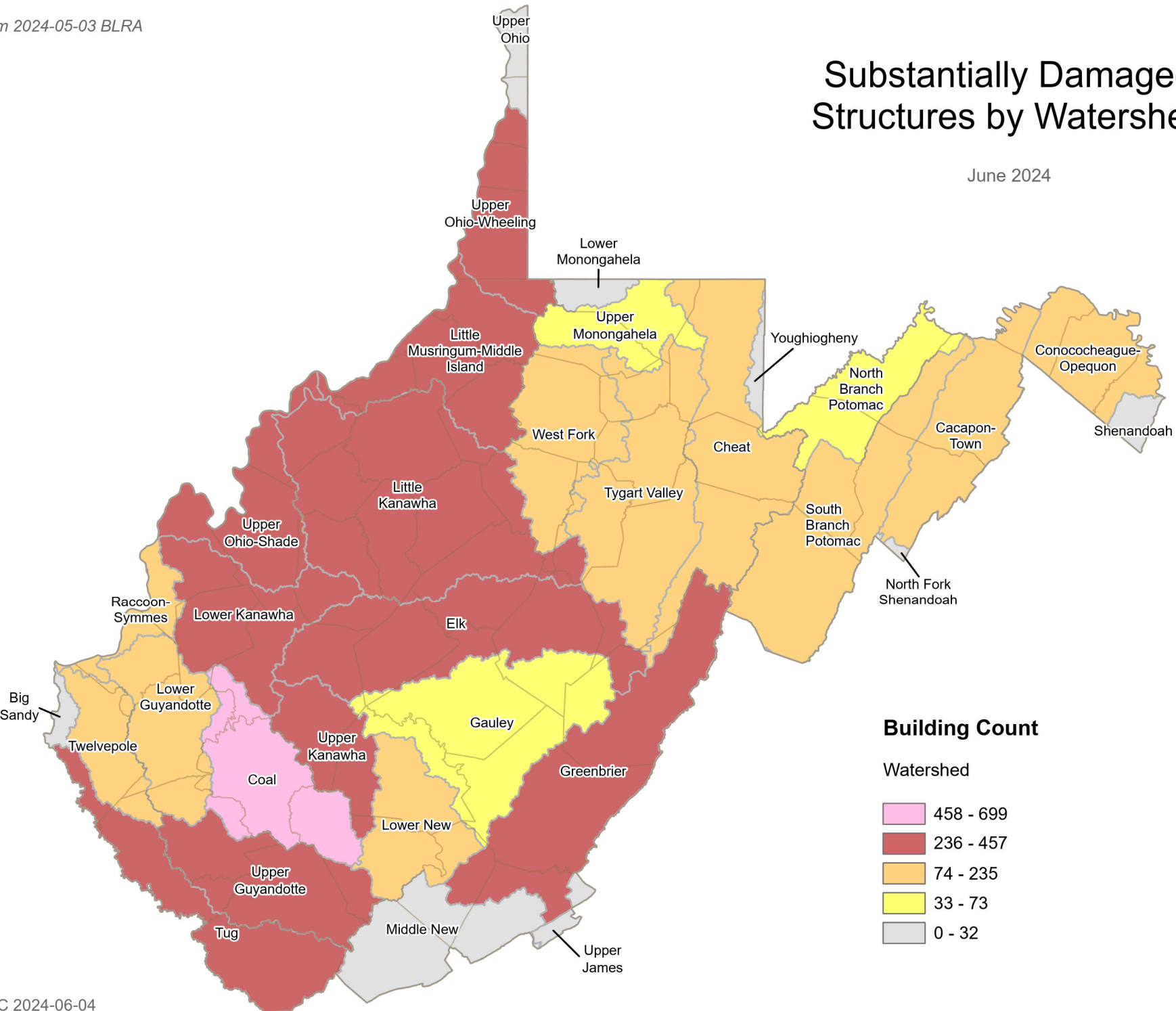
# Estimated Debris Removal Burden

August 2021



# Substantially Damaged Structures by Watershed

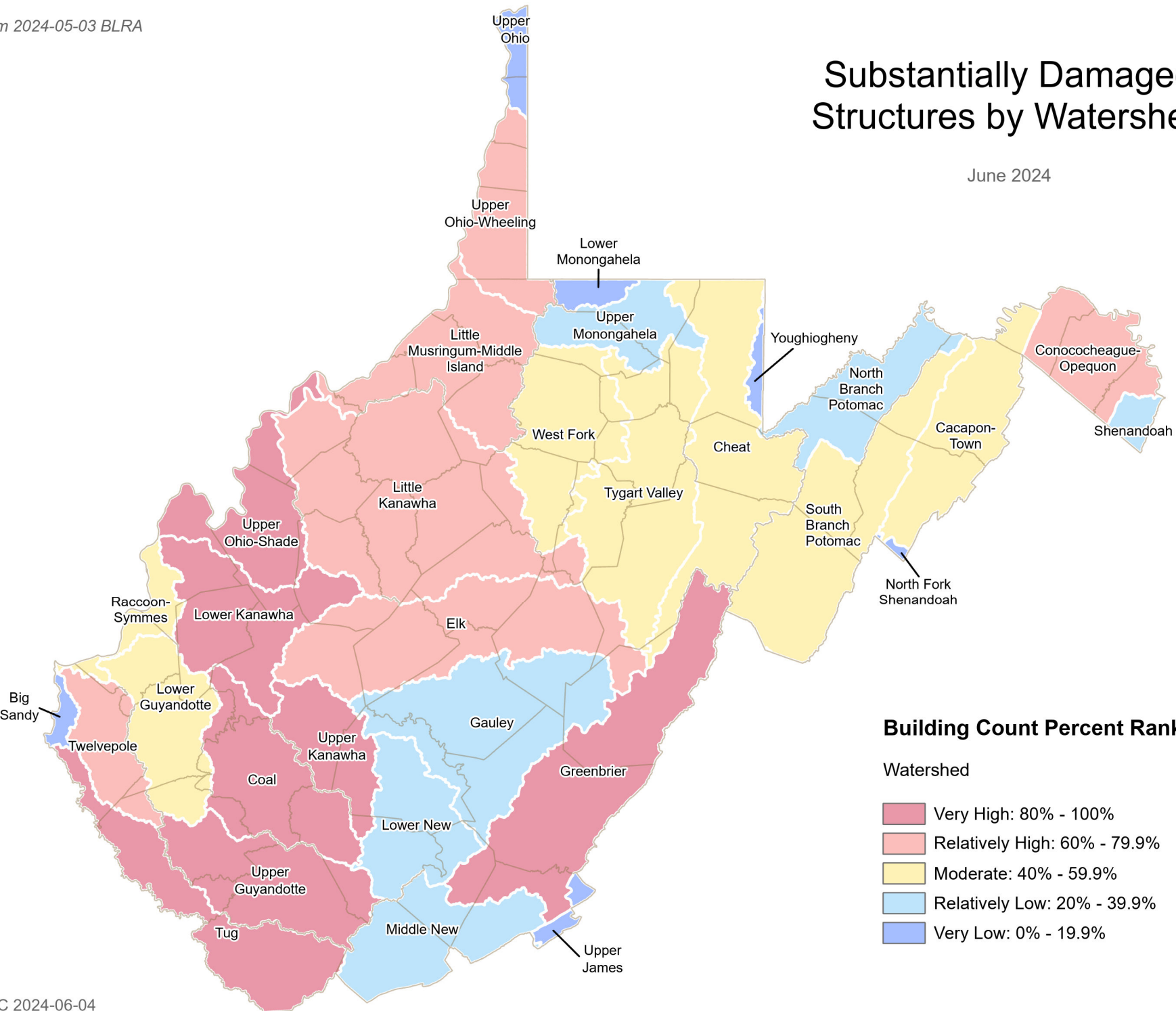
June 2024





# Substantially Damaged Structures by Watershed

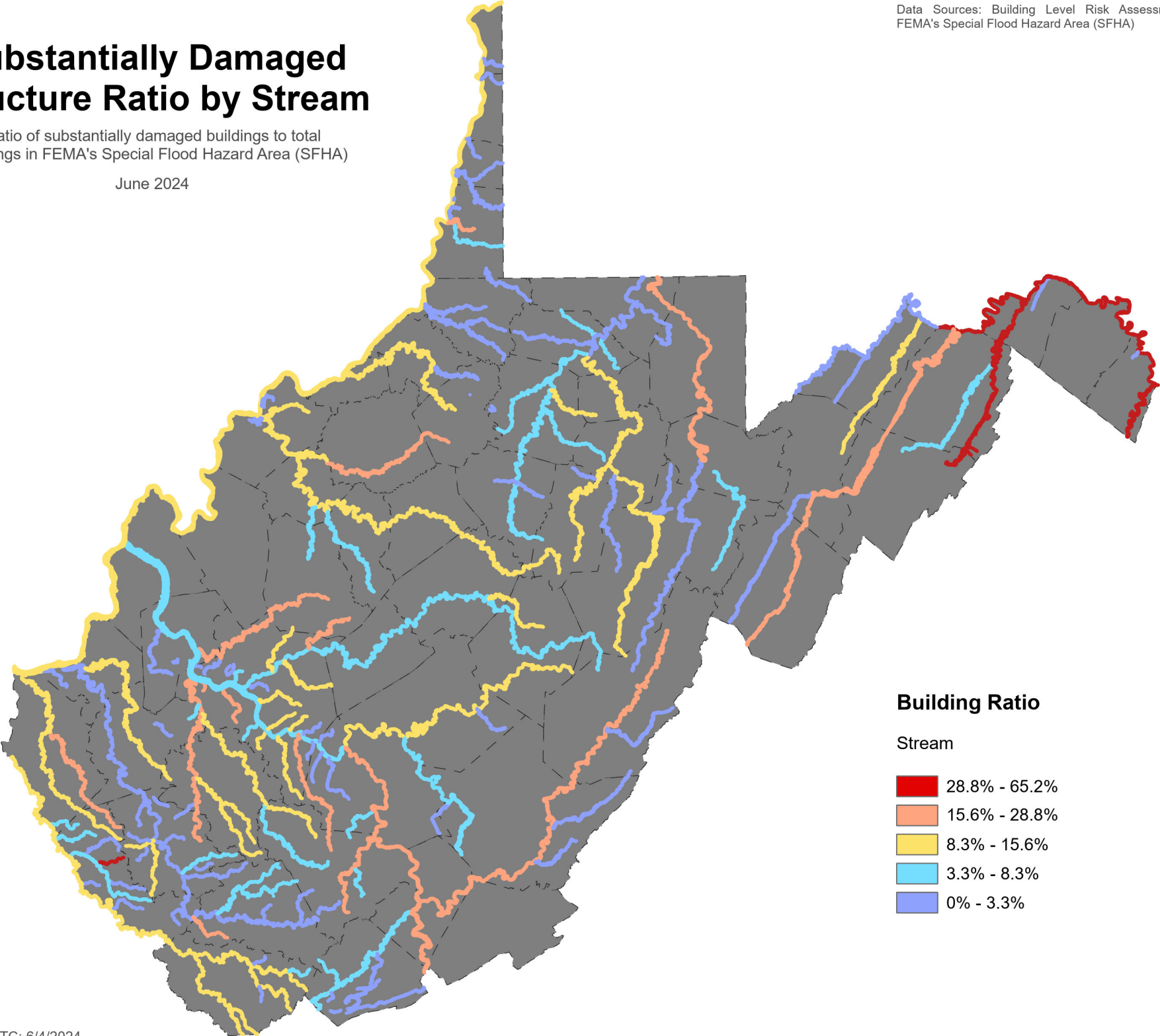
June 2024



# Substantially Damaged Structure Ratio by Stream

Ratio of substantially damaged buildings to total  
buildings in FEMA's Special Flood Hazard Area (SFHA)

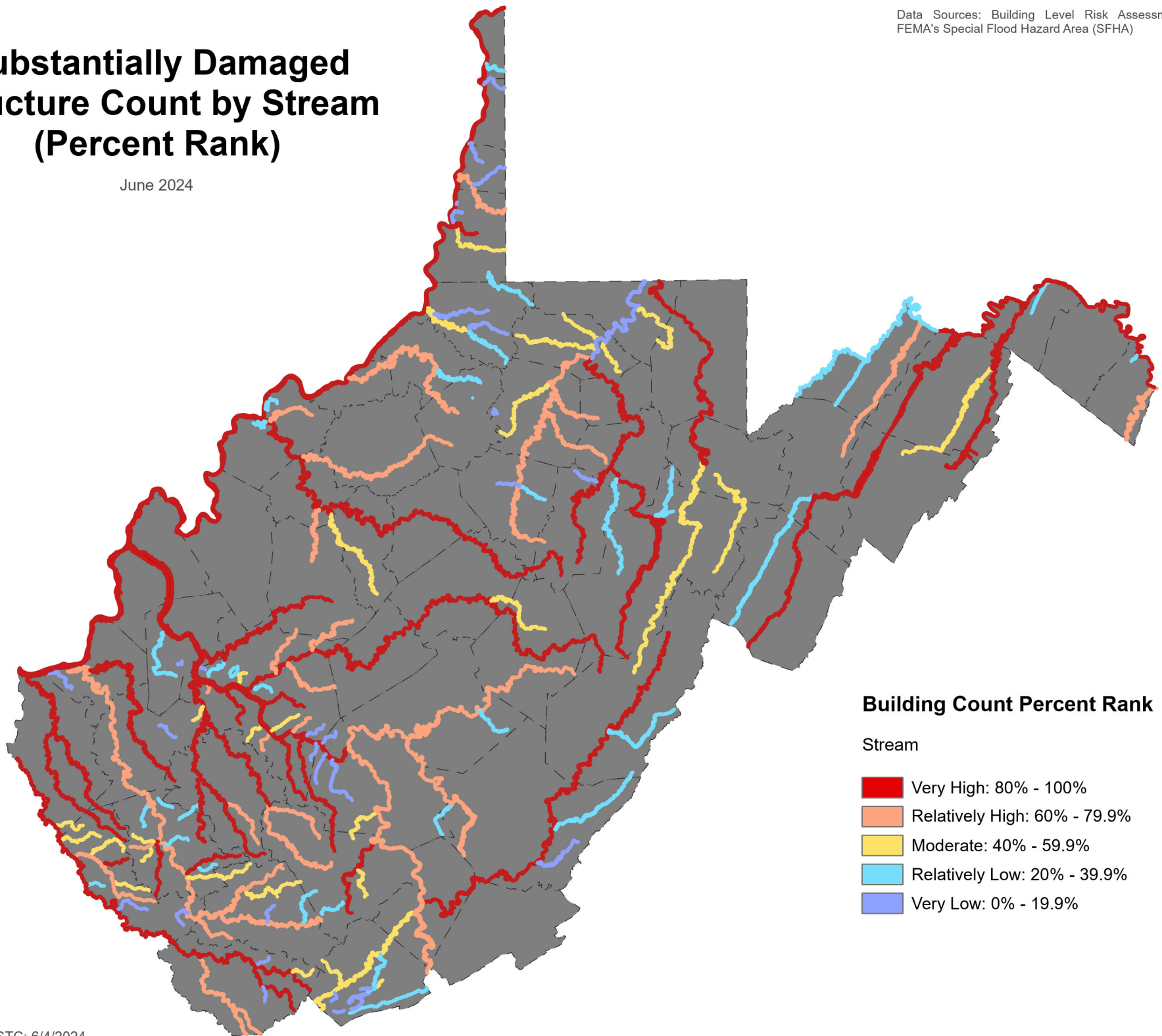
June 2024



# Substantially Damaged Structure Count by Stream (Percent Rank)

June 2024

Data Sources: Building Level Risk Assessment (BLRA),  
FEMA's Special Flood Hazard Area (SFHA)

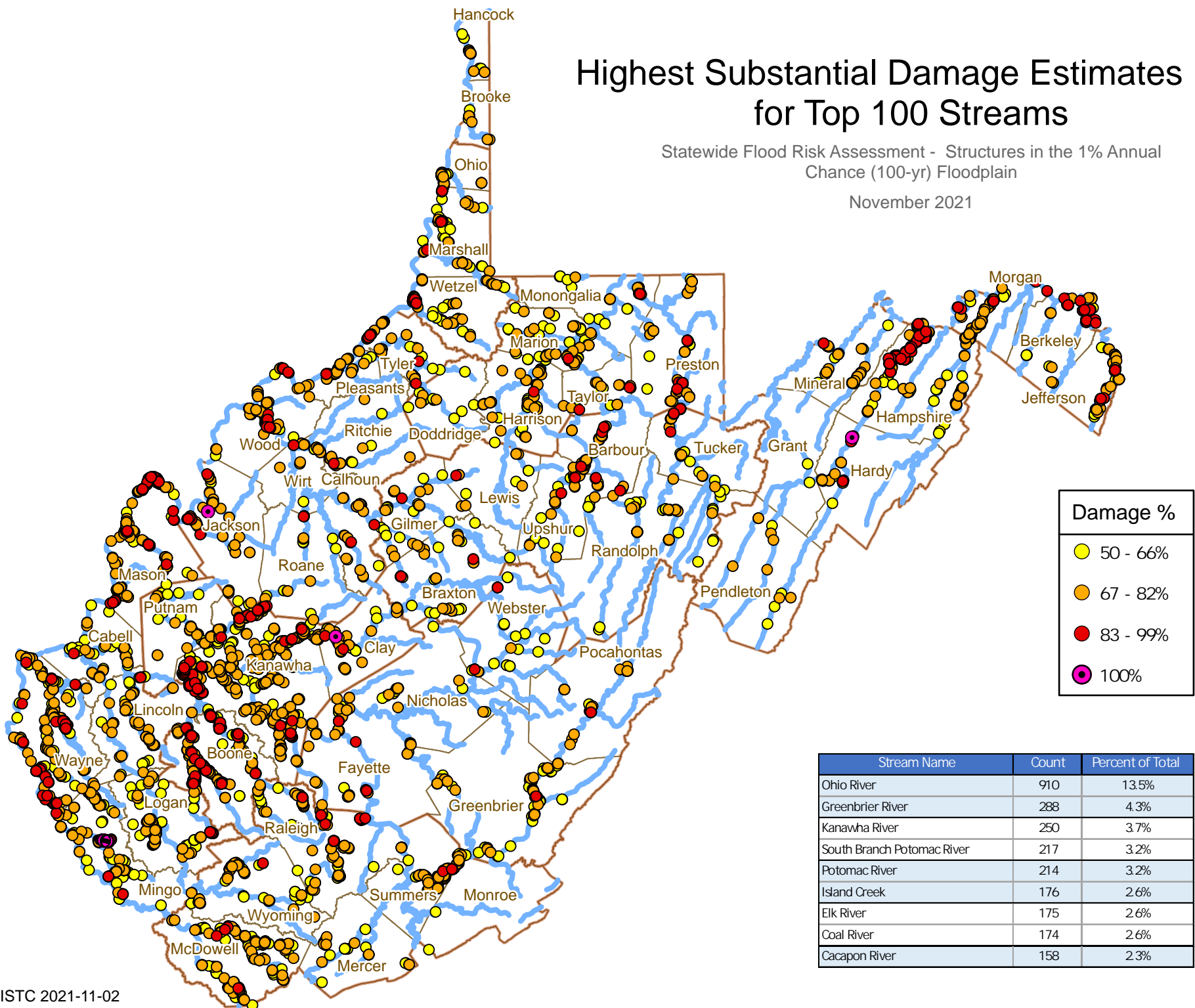




# Highest Substantial Damage Estimates (%) for Top 100 Streams

Statewide Flood Risk Assessment - Structures in the 1% Annual  
Chance (100-yr) Floodplain

November 2021





Occupancy Class		Count	Percent of Total
Residential	RES1	3180	47.1%
	RES2	3489	51.7%
	RES3x	14	0.2%
Non-Residential Commercial	COMx	52	0.8%
	INDx	5	0.1%
Other Non-Residential	GOVx	7	0.1%
	RELx	3	0.0%
	AGRx	1	0.0%
Total		6751	

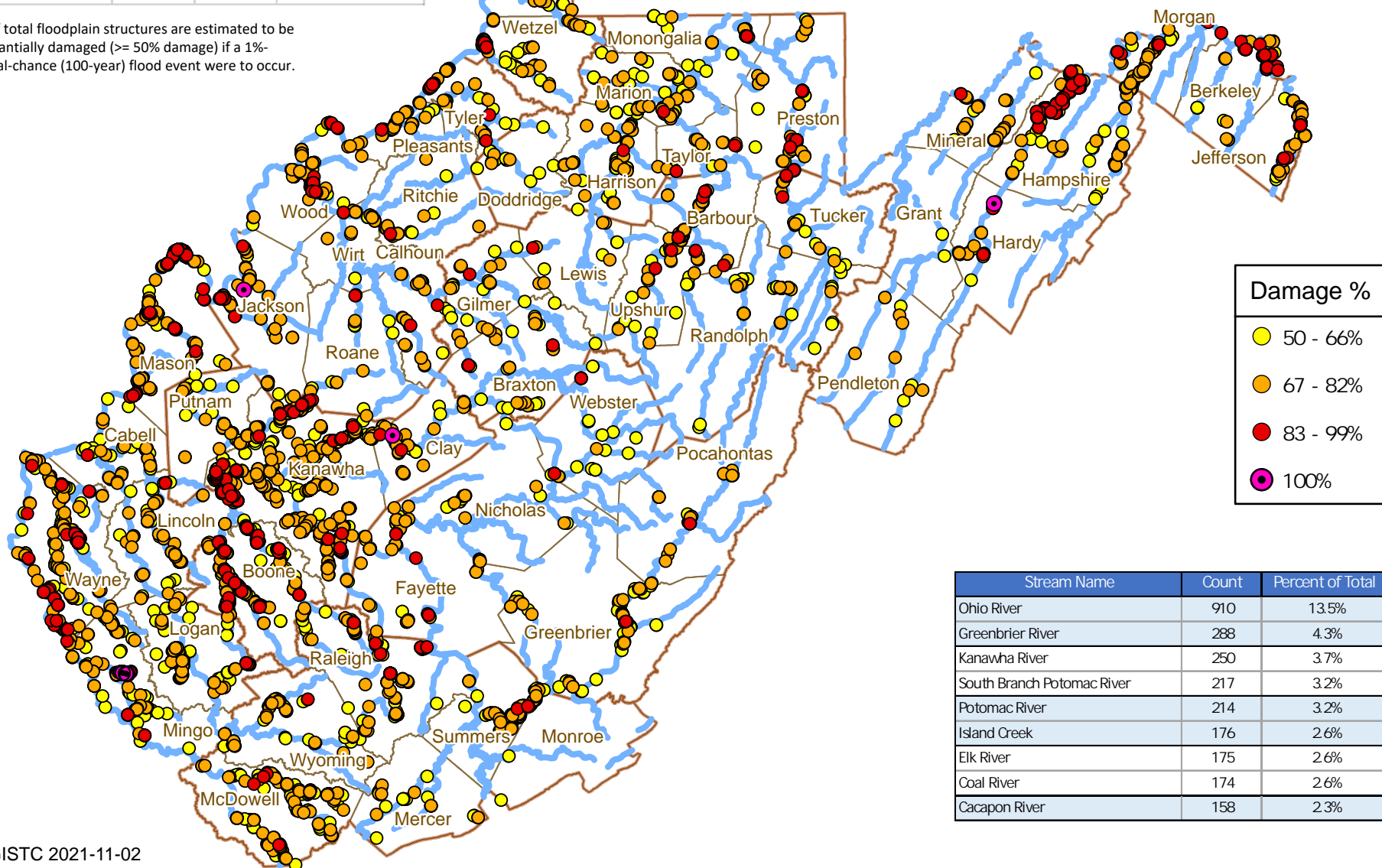
7% of total floodplain structures are estimated to be substantially damaged ( $\geq 50\%$  damage) if a 1%-annual-chance (100-year) flood event were to occur.

## High Substantial Damage Estimates (%)

6,751 ( $\geq 50\%$  damage) of 98,451 Floodplain Structures

Statewide Flood Risk Assessment - 1% Annual Chance (100-yr) Floodplain

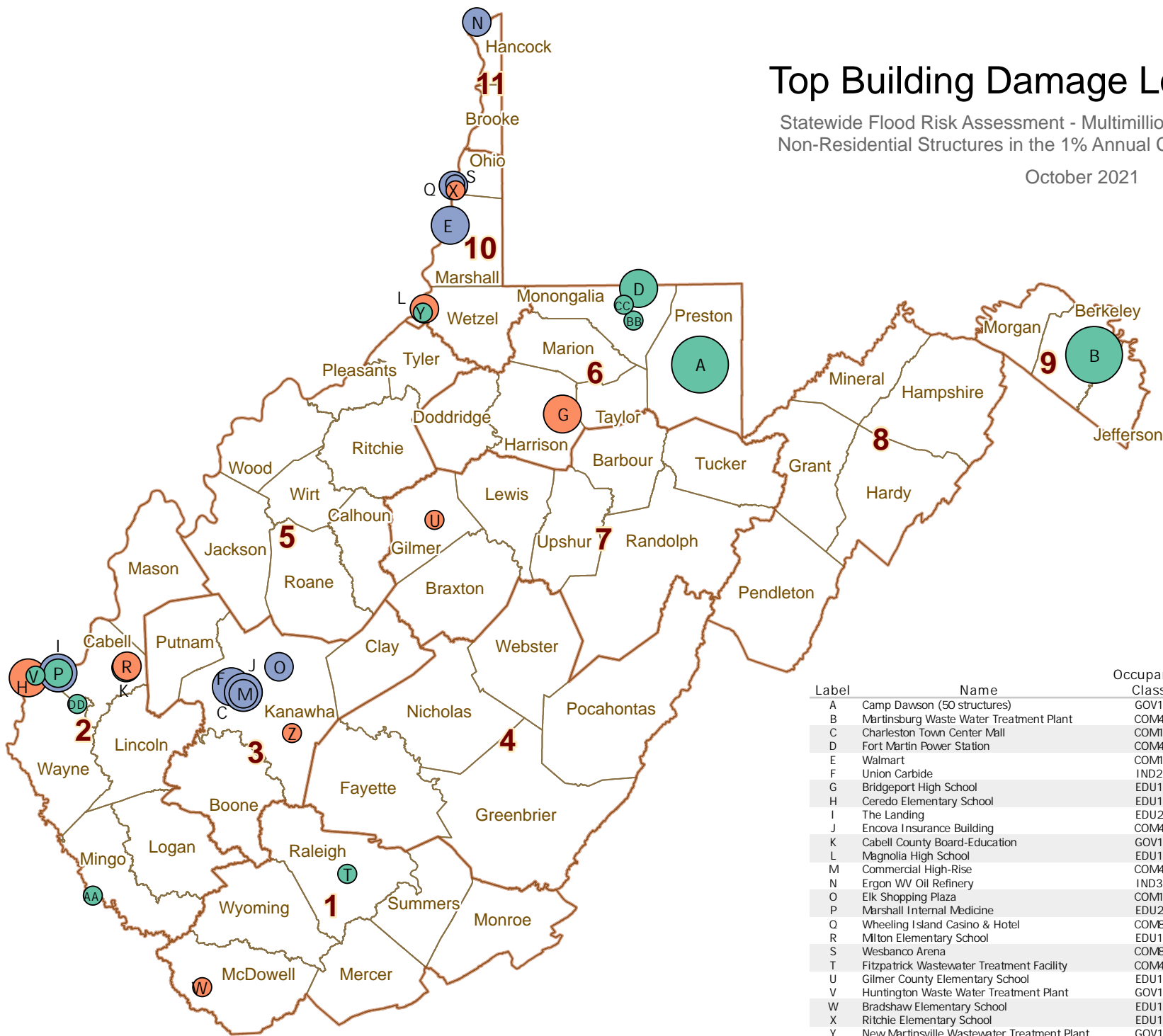
November 2021



# Top Building Damage Loss Estimates

Statewide Flood Risk Assessment - Multimillion \$ Damage Estimates for Non-Residential Structures in the 1% Annual Chance (100-yr) Floodplain

October 2021



Building \$ Loss

Building Type

Essential Facility

Community Asset

Other

Loss Magnitude

\$474K

\$1M

\$2M

\$14M

		Occupancy				
Label	Name	Class	County	Value	Loss %	Loss \$
A	Camp Dawson (50 structures)	GOV1	PRESTON	\$276M	7%	\$20M
B	Martinsburg Waste Water Treatment Plant	COM4	BERKELEY	\$52M	27%	\$14M
C	Charleston Town Center Mall	COM1	KANAWHA	\$55M	16%	\$9M
D	Fort Martin Power Station	COM4	MONONGALIA	\$21M	24%	\$5M
E	Walmart	COM1	MARSHALL	\$8M	52%	\$4M
F	Union Carbide	IND2	KANAWHA	\$5M	54%	\$3M
G	Bridgeport High School	EDU1	HARRISON	\$22M	8%	\$2M
H	Ceredo Elementary School	EDU1	WAYNE	\$5M	37%	\$2M
I	The Landing	EDU2	CABELL	\$10M	16%	\$2M
J	Encova Insurance Building	COM4	KANAWHA	\$15M	1%	\$2M
K	Cabell County Board-Education	GOV1	CABELL	\$13M	12%	\$1M
L	Magnolia High School	EDU1	WETZEL	\$11M	13%	\$1M
M	Commercial High-Rise	COM4	KANAWHA	\$2M	76%	\$1M
N	Ergon WV Oil Refinery	IND3	HANCOCK	\$6M	21%	\$1M
O	Elk Shopping Plaza	COM1	KANAWHA	\$7M	18%	\$1M
P	Marshall Internal Medicine	EDU2	CABELL	\$8M	13%	\$1M
Q	Wheeling Island Casino & Hotel	COMB	OHIO	\$5M	22%	\$1M
R	Milton Elementary School	EDU1	CABELL	\$9M	11%	\$1M
S	Wesbanco Arena	COMB	OHIO	\$6M	17%	\$957K
T	Fitzpatrick Wastewater Treatment Facility	COM4	RALEIGH	\$5M	18%	\$953K
U	Gilmer County Elementary School	EDU1	GILMER	\$14M	7%	\$947K
V	Huntington Waste Water Treatment Plant	GOV1	WAYNE	\$6M	15%	\$880K
W	Bradshaw Elementary School	EDU1	MCDOWELL	\$10M	8%	\$817K
X	Ritchie Elementary School	EDU1	OHIO	\$16M	5%	\$779K
Y	New Martinsville Wastewater Treatment Plant	GOV1	WETZEL	\$5M	14%	\$721K
Z	Cedar Grove Elementary School	EDU1	KANAWHA	\$11M	6%	\$688K
AA	U.S. Railroad Building	GOV1	MINGO	\$5M	14%	\$669K
BB	Federal Correctional Institution	GOV1	MONONGALIA	\$21M	3%	\$641K
CC	Star City Waste Water Treatment Plant	GOV1	MONONGALIA	\$4M	14%	\$588K
DD	Beech Fork State Park Headquarters	GOV1	WAYNE	\$496K	96%	\$474K

# Top Single Family Residential Structure Damage Loss Estimates ( \$100K)

Statewide Flood Risk Assessment - High Value ( \$100K) Damage Estimates for  
125 Single Family Dwellings in the 1% Annual Chance (100-yr) Floodplain

October 2021

