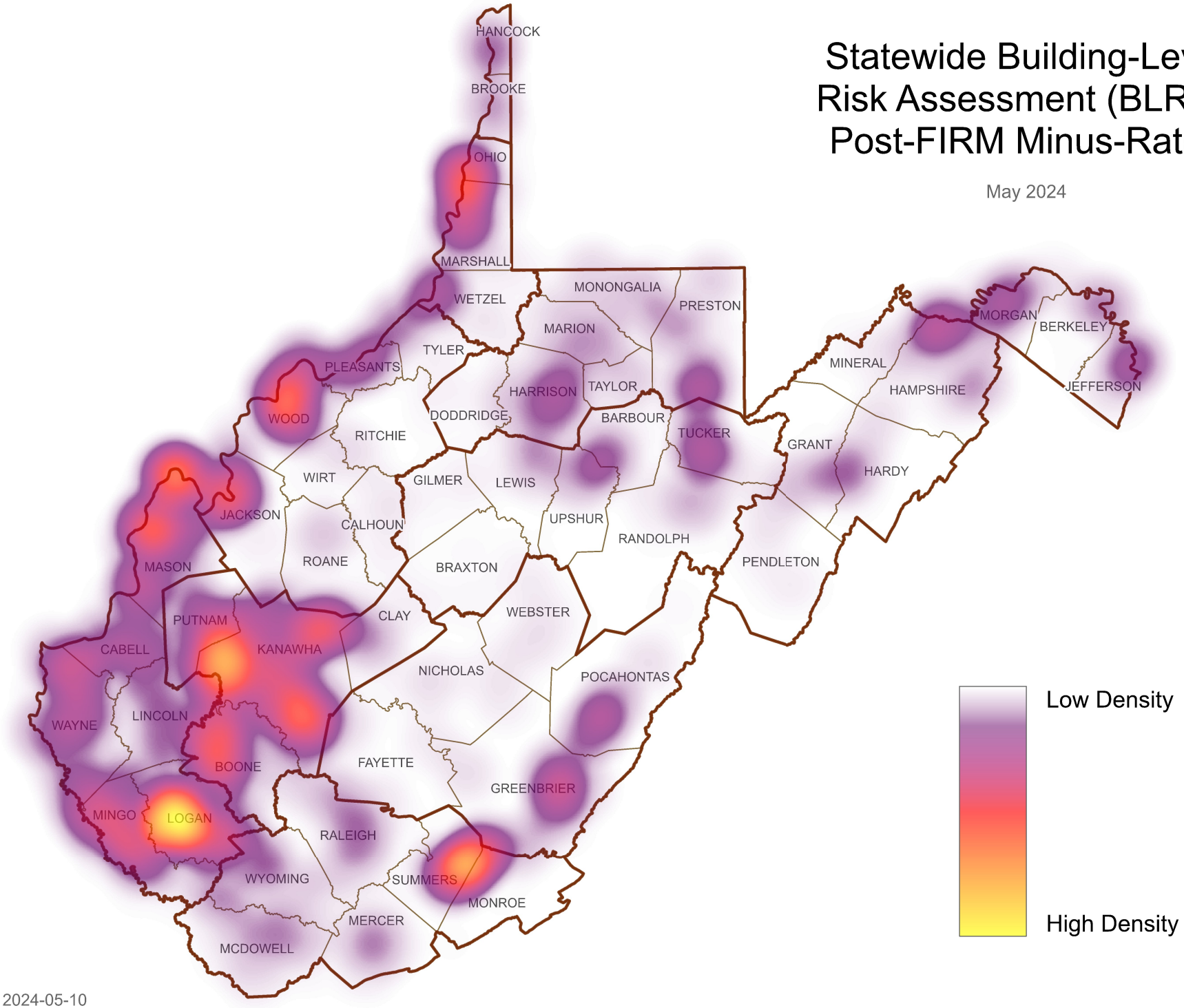
Statewide Building-Level Risk Assessment (BLRA): Post-FIRM Minus-Rated

May 2024



WVGISTC 2024-05-10

Data Source: 2024-05-03 Building Level Risk Assessment (BLRA) database; n=4,064

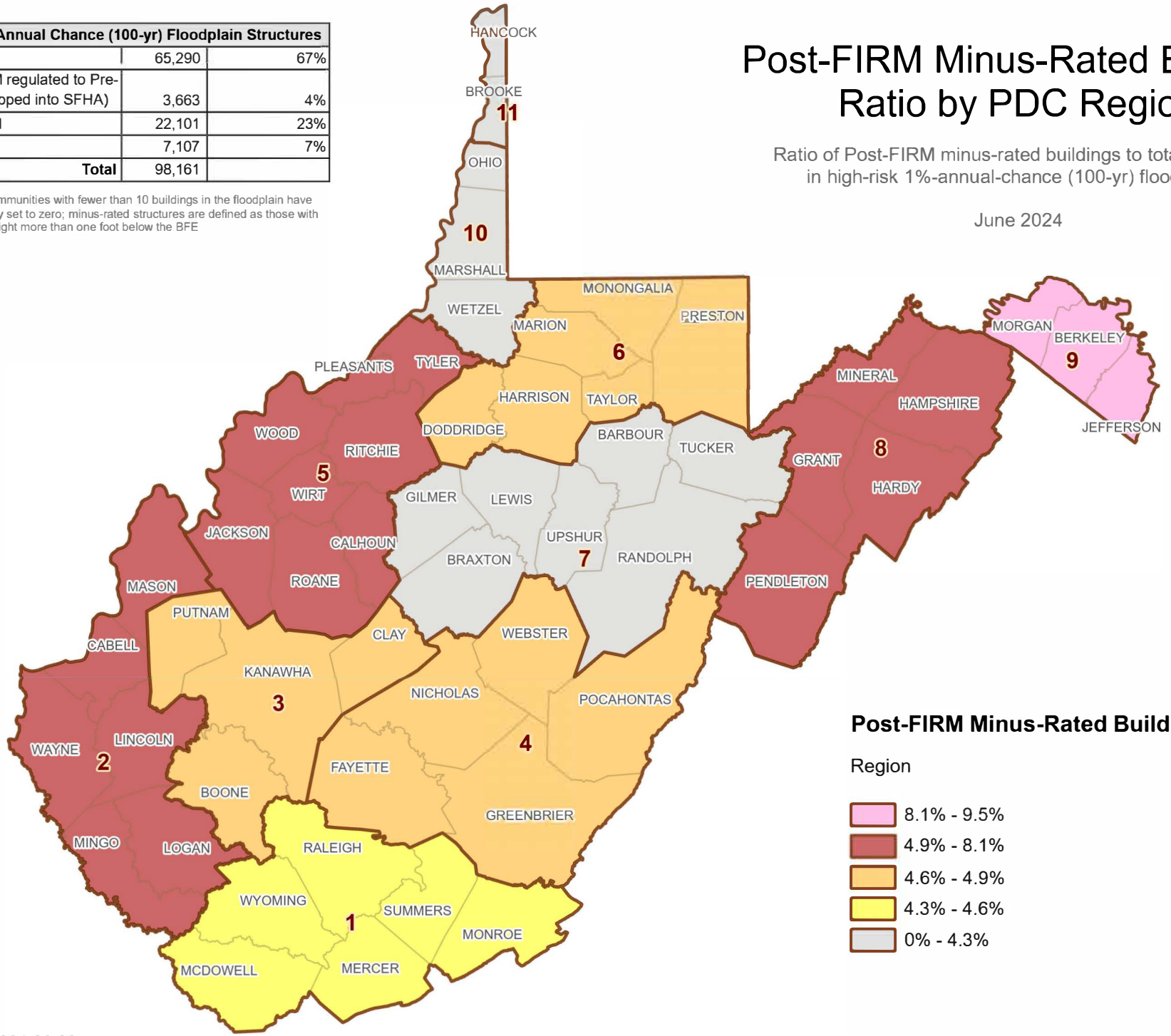
Post-FIRM Minus-Rated Building Ratio by PDC Region

Ratio of Post-FIRM minus-rated buildings to total buildings in high-risk 1%-annual-chance (100-yr) floodplains

June 2024

Total 1% Annual Chance (100-yr) Floodplain Structures		
Pre-FIRM	65,290	67%
Post-FIRM regulated to Pre-FIRM (Mapped into SFHA)	3,663	4%
Post-FIRM	22,101	23%
Unknown	7,107	7%
Total	98,161	

* Value for communities with fewer than 10 buildings in the floodplain have been manually set to zero; minus-rated structures are defined as those with a first floor height more than one foot below the BFE



Post-FIRM Minus-Rated Building Ratio

Region

- 8.1% - 9.5%
- 4.9% - 8.1%
- 4.6% - 4.9%
- 4.3% - 4.6%
- 0% - 4.3%

WVGISTC 2024-06-06

Data Source: Regulatory 1%-annual-chance (100-yr) and high-risk advisory floodplains

Data from 2024-04-22 BLRA

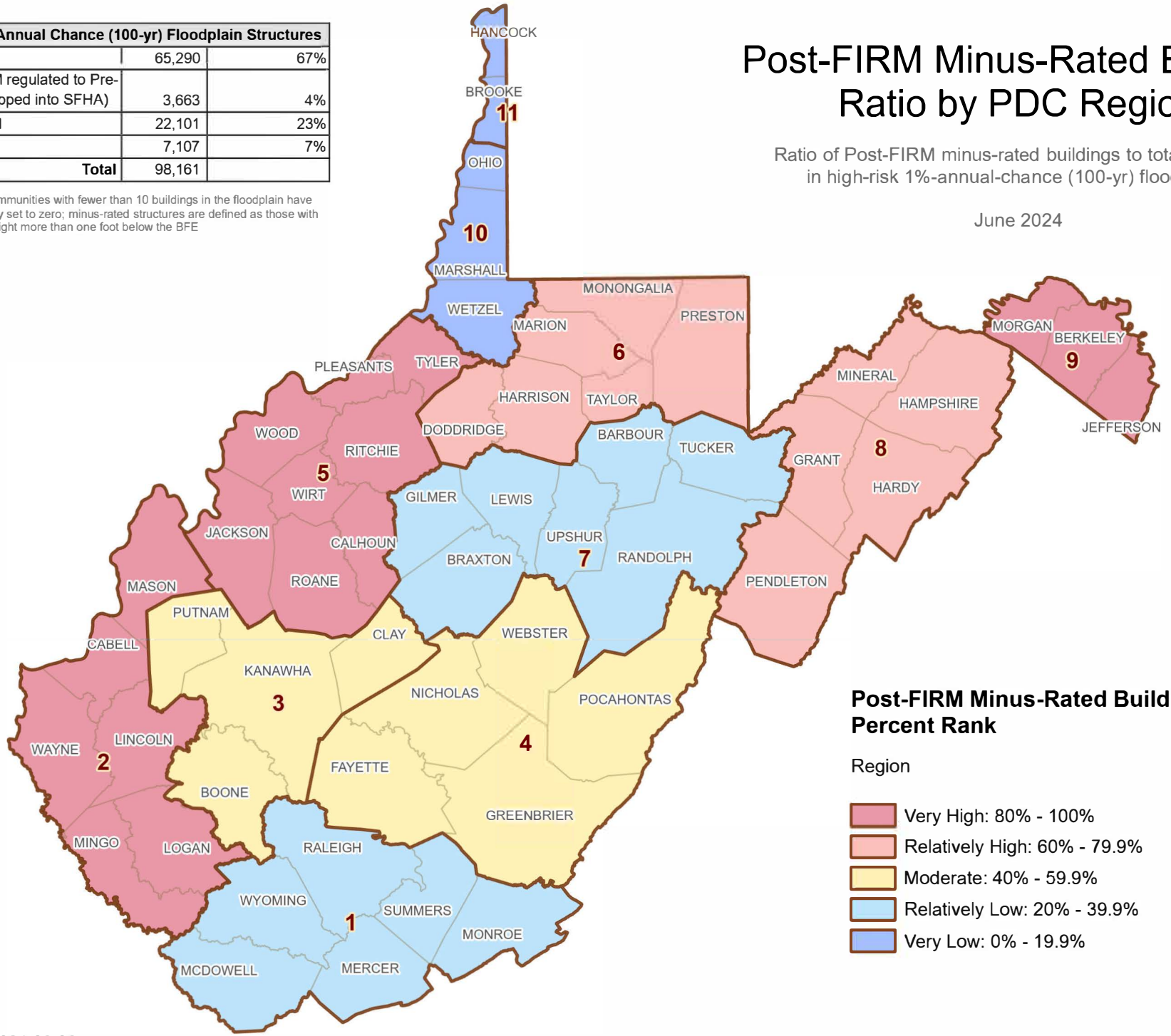
Post-FIRM Minus-Rated Building Ratio by PDC Region

Ratio of Post-FIRM minus-rated buildings to total buildings in high-risk 1%-annual-chance (100-yr) floodplains

June 2024

Total 1% Annual Chance (100-yr) Floodplain Structures		
Pre-FIRM	65,290	67%
Post-FIRM regulated to Pre-FIRM (Mapped into SFHA)	3,663	4%
Post-FIRM	22,101	23%
Unknown	7,107	7%
Total	98,161	

* Value for communities with fewer than 10 buildings in the floodplain have been manually set to zero; minus-rated structures are defined as those with a first floor height more than one foot below the BFE



Post-FIRM Minus-Rated Building Ratio Percent Rank

Region

- Very High: 80% - 100%
- Relatively High: 60% - 79.9%
- Moderate: 40% - 59.9%
- Relatively Low: 20% - 39.9%
- Very Low: 0% - 19.9%

WVGISTC 2024-06-06

Data Source: Regulatory 1%-annual-chance (100-yr) and high-risk advisory floodplains

Data from 2024-04-22 BLRA

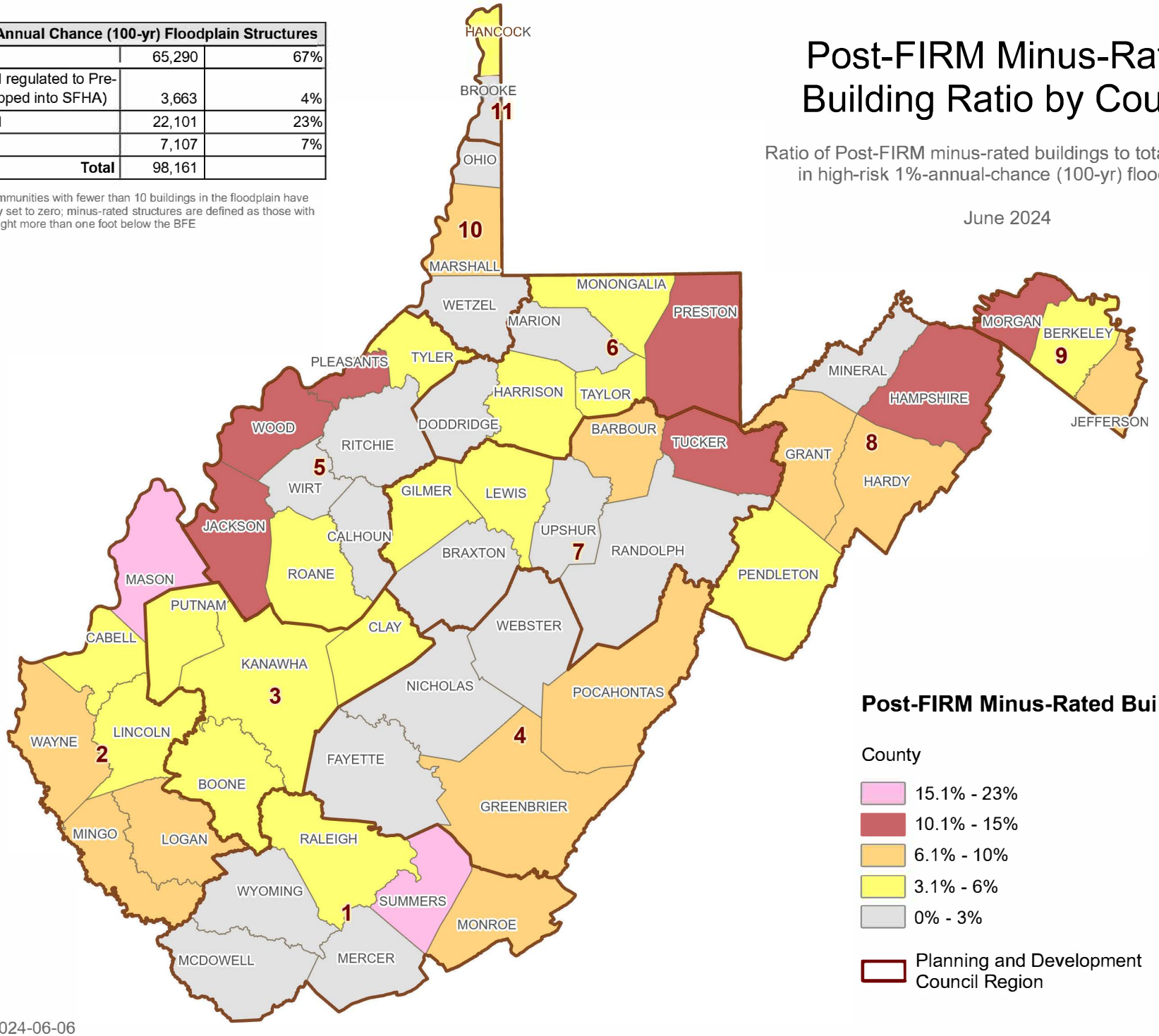
Post-FIRM Minus-Rated Building Ratio by County

Ratio of Post-FIRM minus-rated buildings to total buildings in high-risk 1%-annual-chance (100-yr) floodplains

June 2024

Total 1% Annual Chance (100-yr) Floodplain Structures		
Pre-FIRM	65,290	67%
Post-FIRM regulated to Pre-FIRM (Mapped into SFHA)	3,663	4%
Post-FIRM	22,101	23%
Unknown	7,107	7%
Total	98,161	

* Value for communities with fewer than 10 buildings in the floodplain have been manually set to zero; minus-rated structures are defined as those with a first floor height more than one foot below the BFE



Post-FIRM Minus-Rated Building Ratio

County

- 15.1% - 23%
- 10.1% - 15%
- 6.1% - 10%
- 3.1% - 6%
- 0% - 3%

Planning and Development Council Region

WVGISTC 2024-06-06

Data Source: Regulatory 1%-annual-chance (100-yr) and high-risk advisory floodplains

Data from 2024-04-22 BLRA

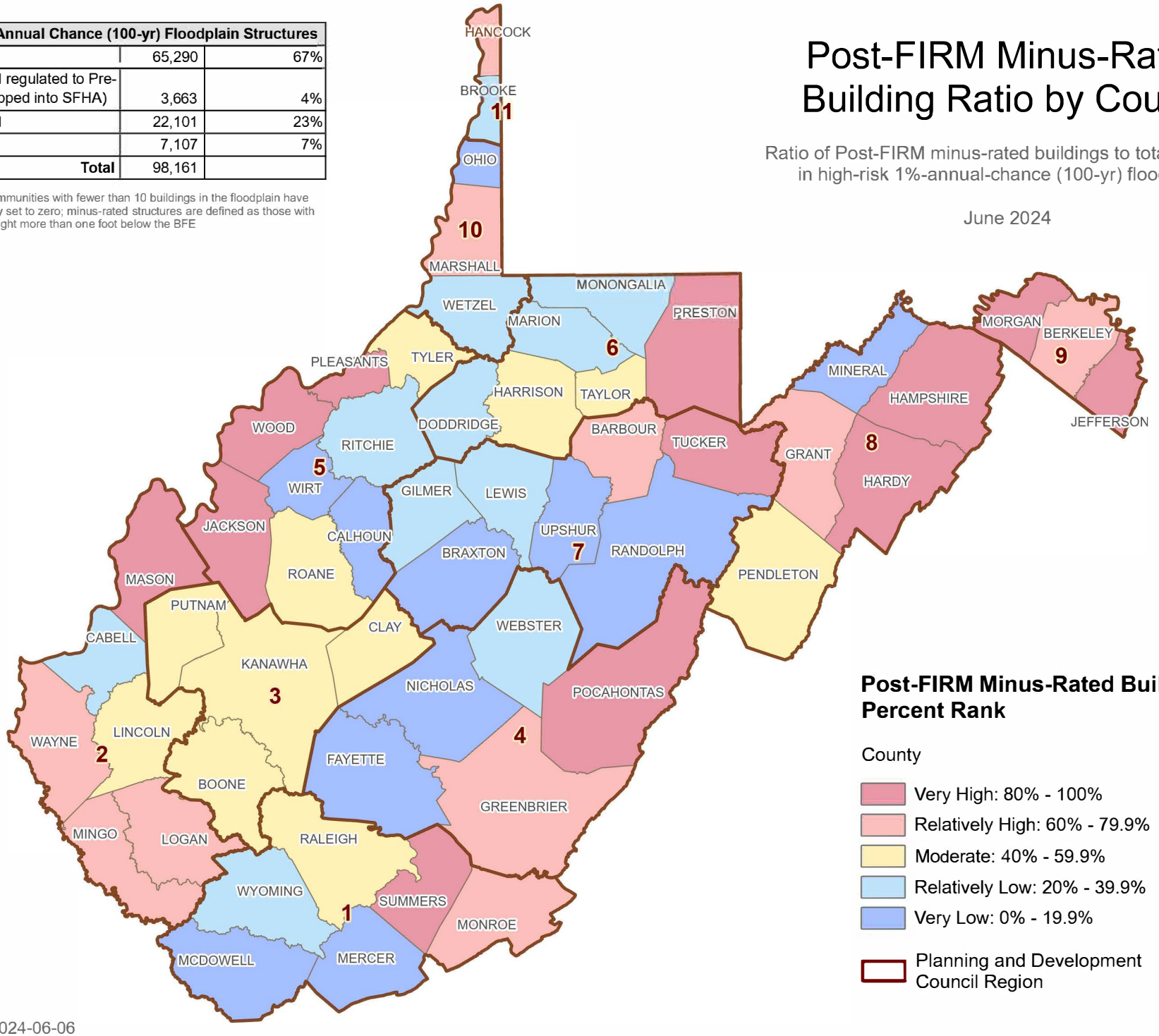
Post-FIRM Minus-Rated Building Ratio by County

Ratio of Post-FIRM minus-rated buildings to total buildings in high-risk 1%-annual-chance (100-yr) floodplains

June 2024

Total 1% Annual Chance (100-yr) Floodplain Structures		
Pre-FIRM	65,290	67%
Post-FIRM regulated to Pre-FIRM (Mapped into SFHA)	3,663	4%
Post-FIRM	22,101	23%
Unknown	7,107	7%
Total	98,161	

* Value for communities with fewer than 10 buildings in the floodplain have been manually set to zero; minus-rated structures are defined as those with a first floor height more than one foot below the BFE



Post-FIRM Minus-Rated Building Ratio Percent Rank

County

- Very High: 80% - 100%
- Relatively High: 60% - 79.9%
- Moderate: 40% - 59.9%
- Relatively Low: 20% - 39.9%
- Very Low: 0% - 19.9%

Planning and Development Council Region

WVGISTC 2024-06-06

Data Source: Regulatory 1%-annual-chance (100-yr) and high-risk advisory floodplains

Data from 2024-04-22 BLRA

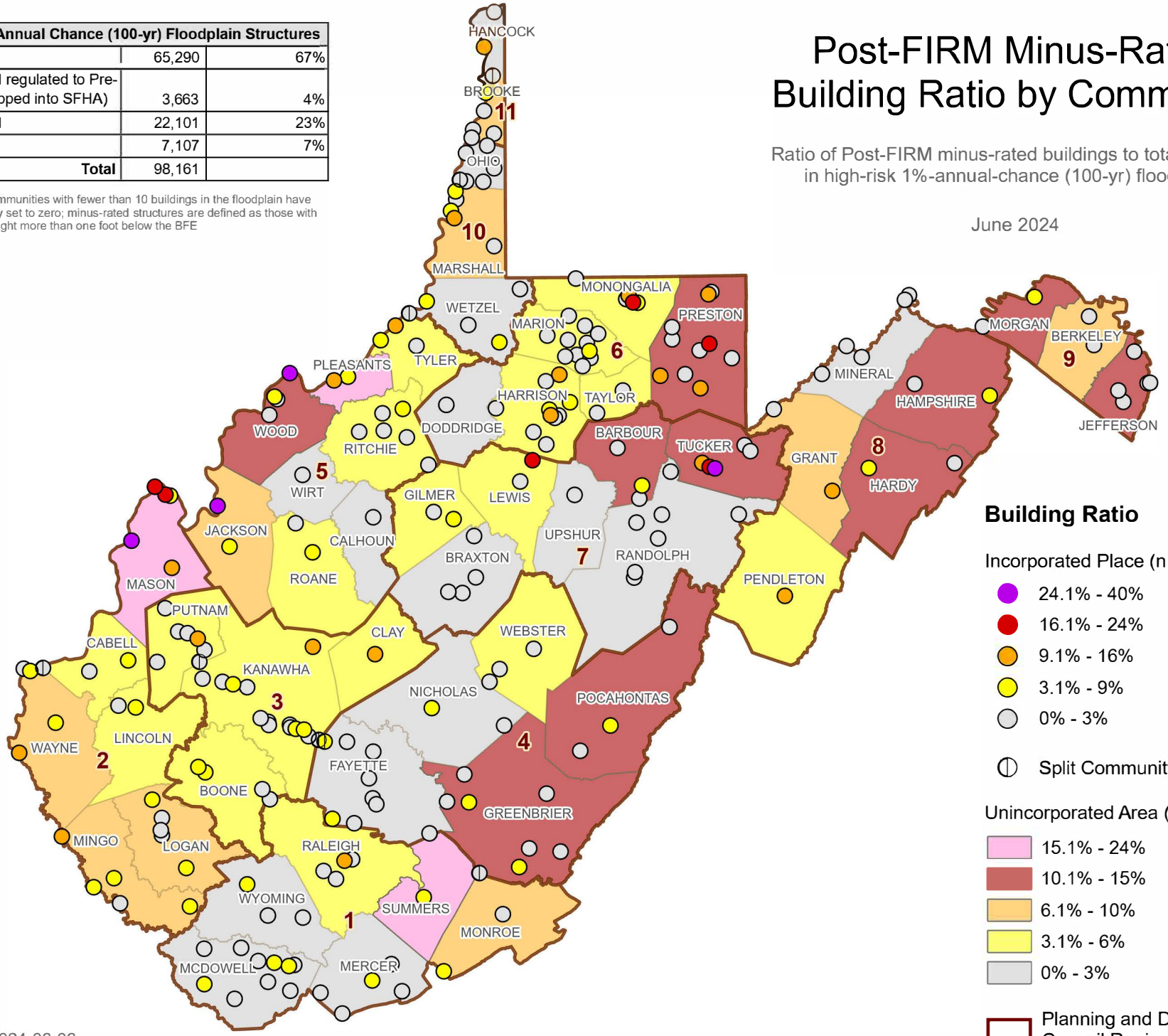
Post-FIRM Minus-Rated Building Ratio by Community

Ratio of Post-FIRM minus-rated buildings to total buildings in high-risk 1%-annual-chance (100-yr) floodplains

June 2024

Total 1% Annual Chance (100-yr) Floodplain Structures		
Pre-FIRM	65,290	67%
Post-FIRM regulated to Pre-FIRM (Mapped into SFHA)	3,663	4%
Post-FIRM	22,101	23%
Unknown	7,107	7%
Total	98,161	

* Value for communities with fewer than 10 buildings in the floodplain have been manually set to zero; minus-rated structures are defined as those with a first floor height more than one foot below the BFE



Building Ratio

Incorporated Place (n = 229)

- 24.1% - 40%
- 16.1% - 24%
- 9.1% - 16%
- 3.1% - 9%
- 0% - 3%

Split Community

Unincorporated Area (n = 55)

- 15.1% - 24%
- 10.1% - 15%
- 6.1% - 10%
- 3.1% - 6%
- 0% - 3%

Planning and Development Council Region

WVGISTC 2024-06-06

Data Source: Regulatory 1%-annual-chance (100-yr) and high-risk advisory floodplains

Data from 2024-04-22 BLRA

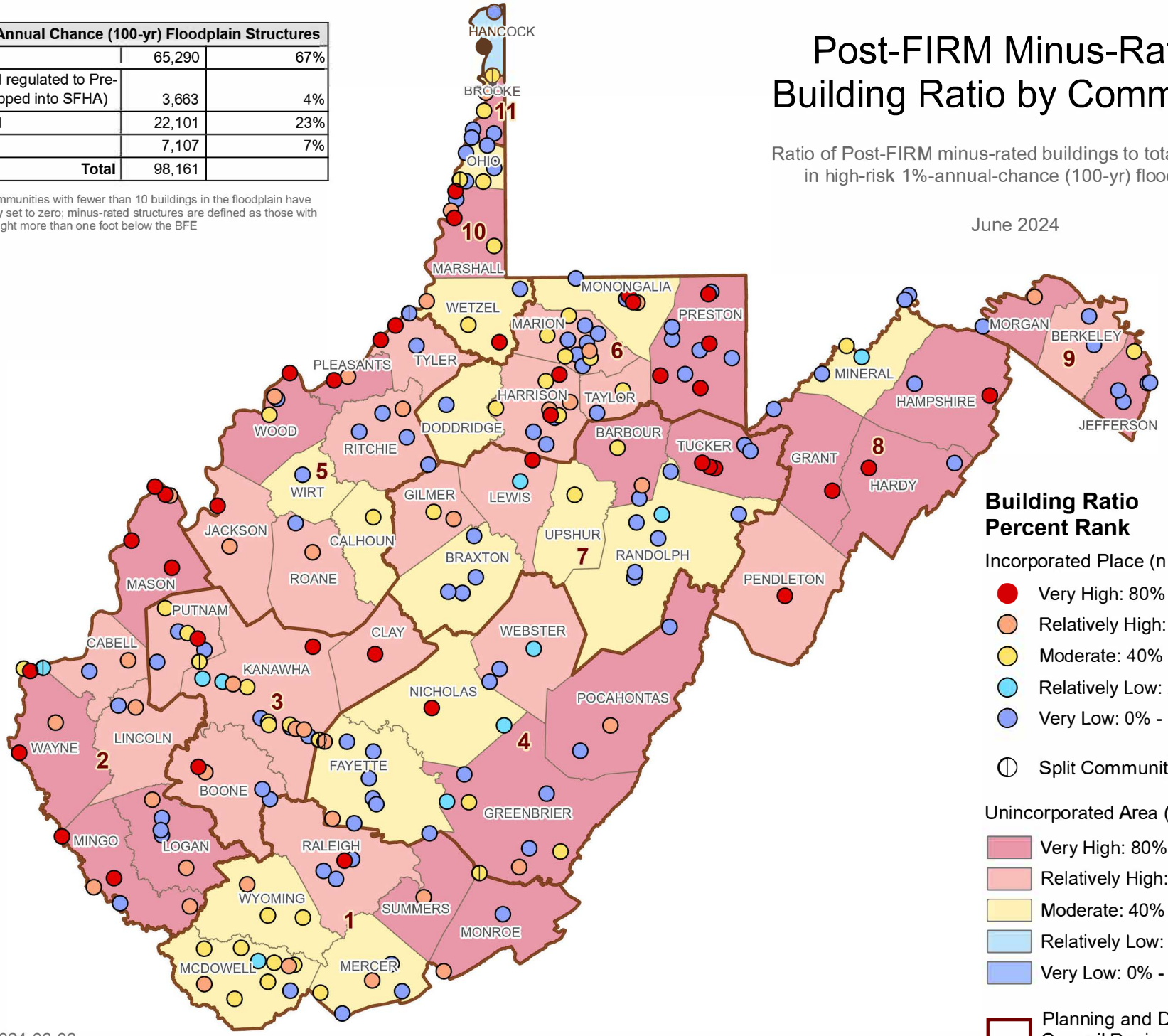
Post-FIRM Minus-Rated Building Ratio by Community

Ratio of Post-FIRM minus-rated buildings to total buildings in high-risk 1%-annual-chance (100-yr) floodplains

June 2024

Total 1% Annual Chance (100-yr) Floodplain Structures		
Pre-FIRM	65,290	67%
Post-FIRM regulated to Pre-FIRM (Mapped into SFHA)	3,663	4%
Post-FIRM	22,101	23%
Unknown	7,107	7%
Total	98,161	

* Value for communities with fewer than 10 buildings in the floodplain have been manually set to zero; minus-rated structures are defined as those with a first floor height more than one foot below the BFE



Building Ratio Percent Rank

Incorporated Place (n = 229)

- Very High: 80% - 100%
- Relatively High: 60% - 79.9%
- Moderate: 40% - 59.9%
- Relatively Low: 20% - 39.9%
- Very Low: 0% - 19.9%
- Split Community

Unincorporated Area (n = 55)

- Very High: 80% - 100%
- Relatively High: 60% - 79.9%
- Moderate: 40% - 59.9%
- Relatively Low: 20% - 39.9%
- Very Low: 0% - 19.9%

Planning and Development Council Region

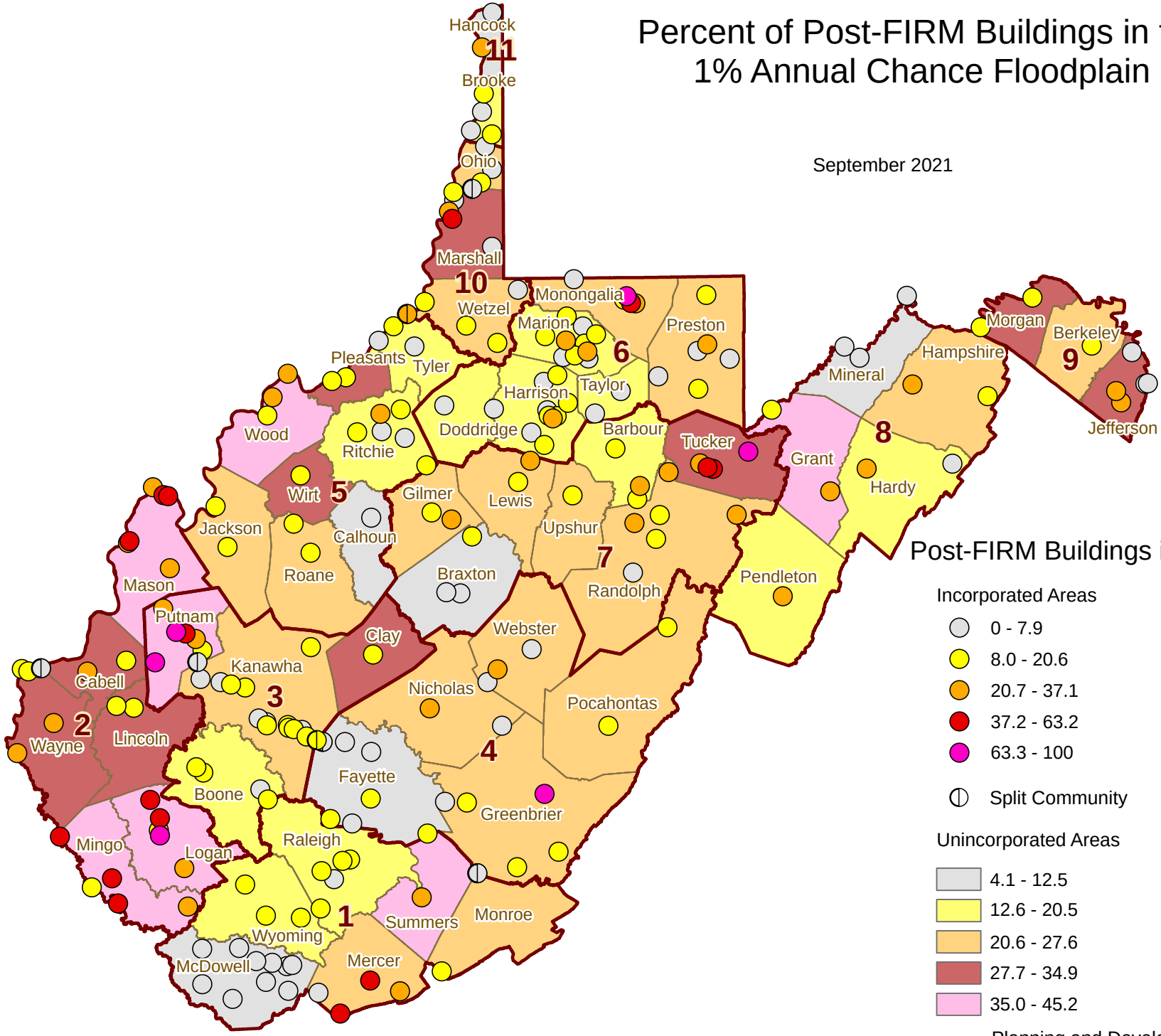
WVGISTC 2024-06-06

Data Source: Regulatory 1%-annual-chance (100-yr) and high-risk advisory floodplains

Data from 2024-04-22 BLRA

Percent of Post-FIRM Buildings in the 1% Annual Chance Floodplain

September 2021



Post-FIRM Buildings in SFHA (%)

Incorporated Areas

- 0 - 7.9
- 8.0 - 20.6
- 20.7 - 37.1
- 37.2 - 63.2
- 63.3 - 100
- Split Community

Unincorporated Areas

- 4.1 - 12.5
- 12.6 - 20.5
- 20.6 - 27.6
- 27.7 - 34.9
- 35.0 - 45.2

Planning and Development Council Region

WVGISTC 2021-09-21

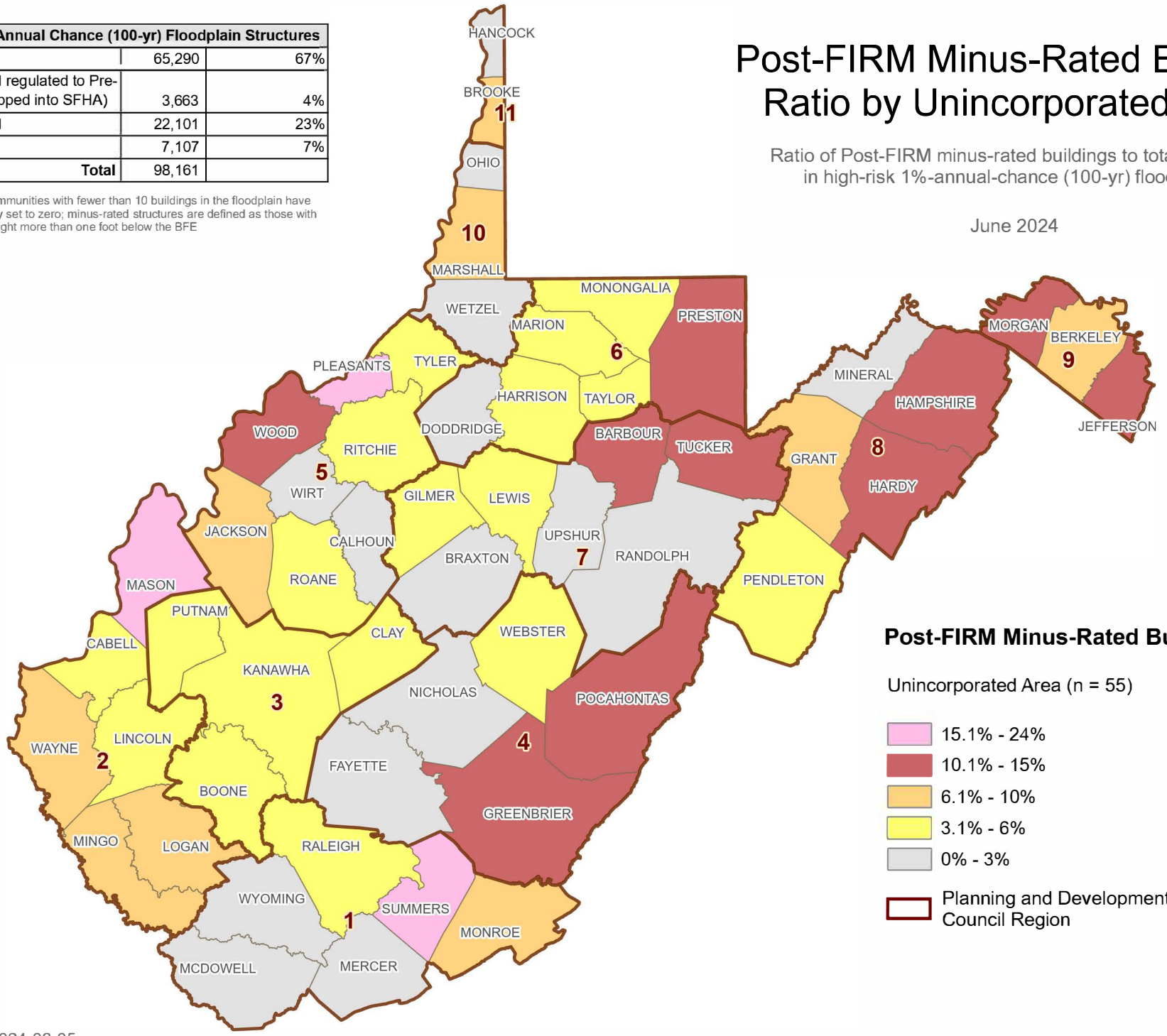
Post-FIRM Minus-Rated Building Ratio by Unincorporated Area

Ratio of Post-FIRM minus-rated buildings to total buildings in high-risk 1%-annual-chance (100-yr) floodplains

June 2024

Total 1% Annual Chance (100-yr) Floodplain Structures		
Pre-FIRM	65,290	67%
Post-FIRM regulated to Pre-FIRM (Mapped into SFHA)	3,663	4%
Post-FIRM	22,101	23%
Unknown	7,107	7%
Total	98,161	

* Value for communities with fewer than 10 buildings in the floodplain have been manually set to zero; minus-rated structures are defined as those with a first floor height more than one foot below the BFE



Post-FIRM Minus-Rated Building Ratio

Unincorporated Area (n = 55)

- 15.1% - 24%
- 10.1% - 15%
- 6.1% - 10%
- 3.1% - 6%
- 0% - 3%
- Planning and Development Council Region

WVGISTC 2024-06-05

Data Source: Regulatory 1%-annual-chance (100-yr) and high-risk advisory floodplains

Data from 2024-04-22 BLRA

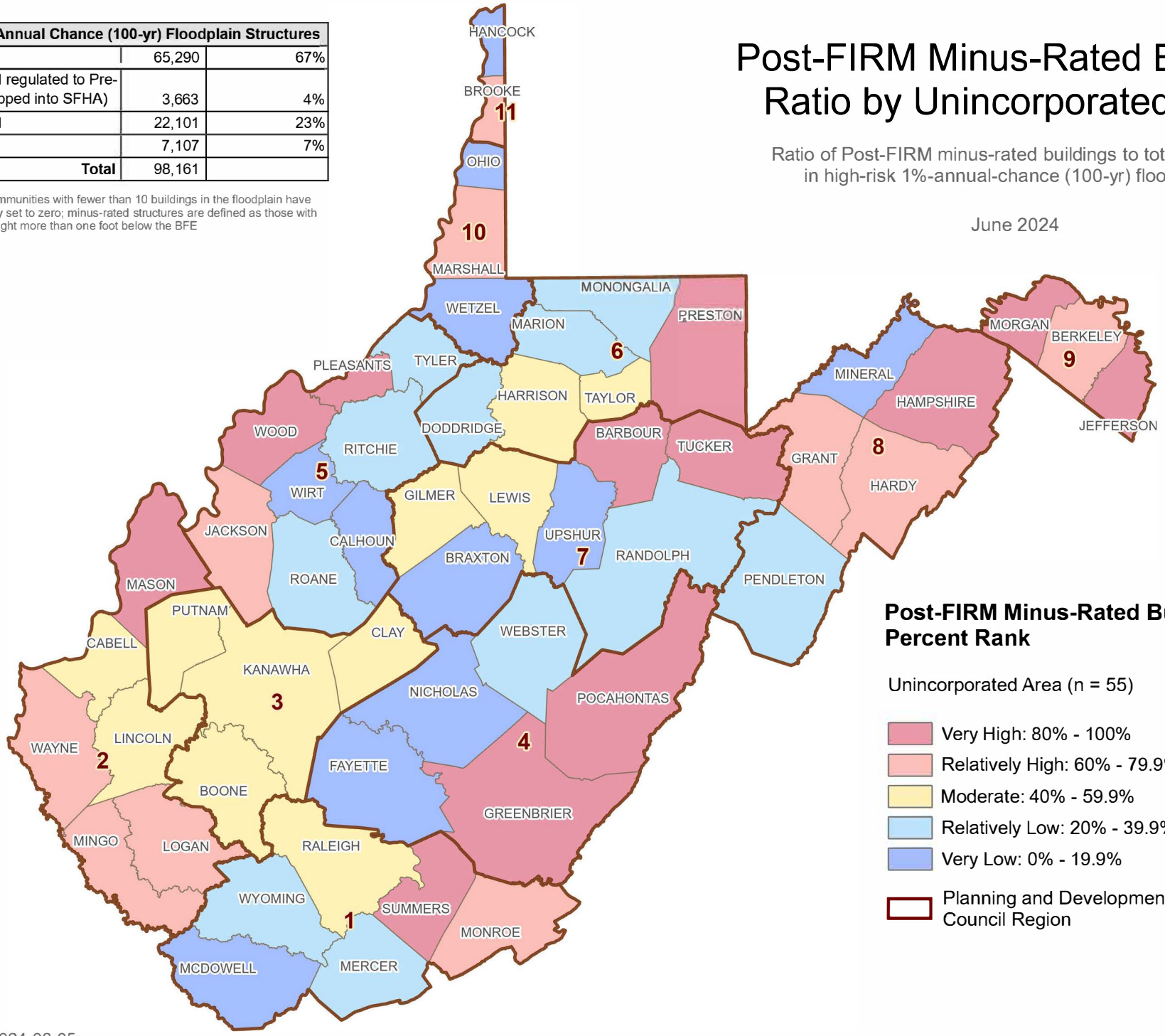
Post-FIRM Minus-Rated Building Ratio by Unincorporated Area

Ratio of Post-FIRM minus-rated buildings to total buildings in high-risk 1%-annual-chance (100-yr) floodplains

June 2024

Total 1% Annual Chance (100-yr) Floodplain Structures		
Pre-FIRM	65,290	67%
Post-FIRM regulated to Pre-FIRM (Mapped into SFHA)	3,663	4%
Post-FIRM	22,101	23%
Unknown	7,107	7%
Total	98,161	

* Value for communities with fewer than 10 buildings in the floodplain have been manually set to zero; minus-rated structures are defined as those with a first floor height more than one foot below the BFE



Post-FIRM Minus-Rated Building Ratio Percent Rank

Unincorporated Area (n = 55)

- Very High: 80% - 100%
- Relatively High: 60% - 79.9%
- Moderate: 40% - 59.9%
- Relatively Low: 20% - 39.9%
- Very Low: 0% - 19.9%

Planning and Development Council Region

WVGISTC 2024-06-05

Data Source: Regulatory 1%-annual-chance (100-yr) and high-risk advisory floodplains

Data from 2024-04-22 BLRA

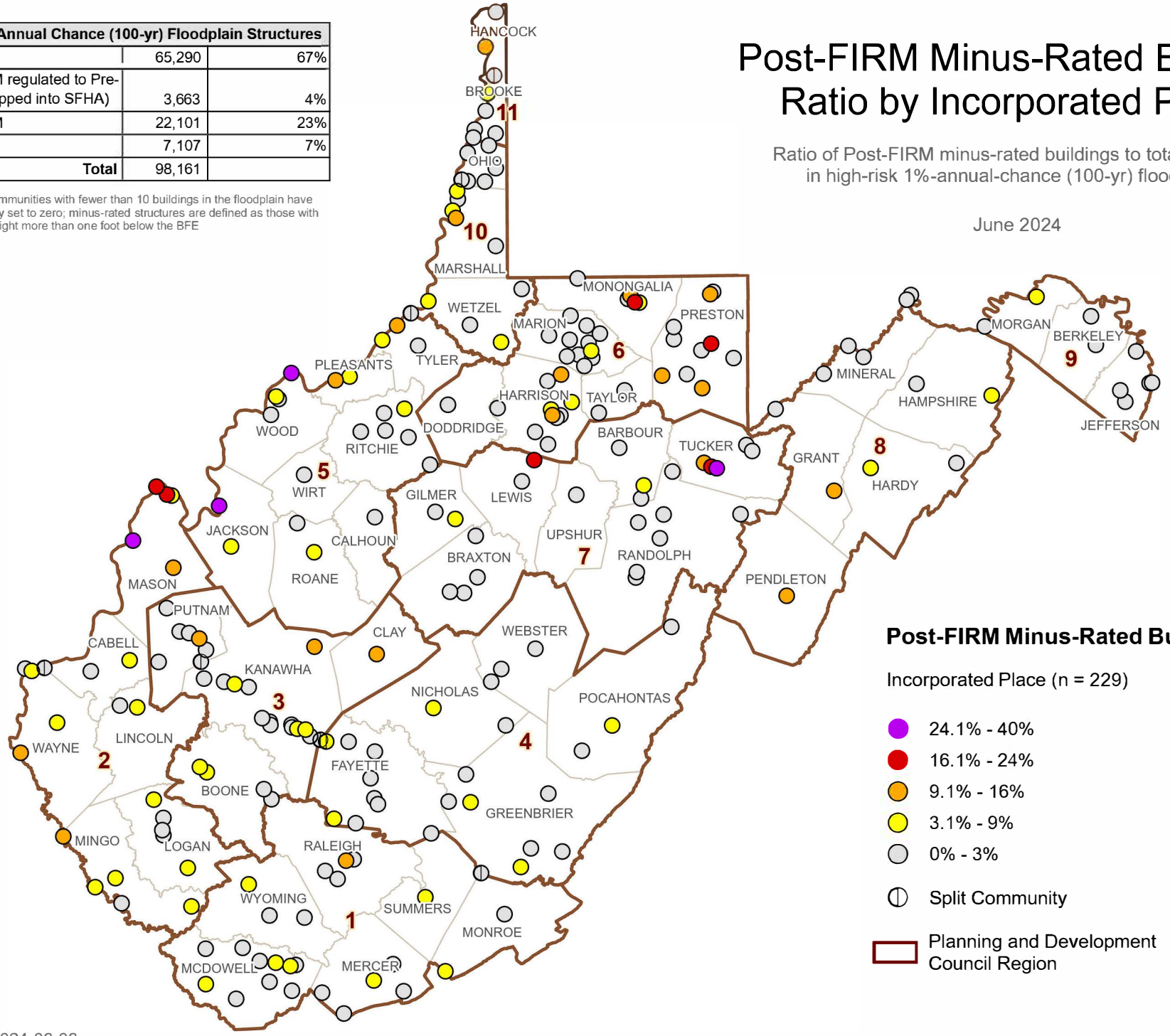
Post-FIRM Minus-Rated Building Ratio by Incorporated Place

Ratio of Post-FIRM minus-rated buildings to total buildings in high-risk 1%-annual-chance (100-yr) floodplains

June 2024

Total 1% Annual Chance (100-yr) Floodplain Structures		
Pre-FIRM	65,290	67%
Post-FIRM regulated to Pre-FIRM (Mapped into SFHA)	3,663	4%
Post-FIRM	22,101	23%
Unknown	7,107	7%
Total	98,161	

* Value for communities with fewer than 10 buildings in the floodplain have been manually set to zero; minus-rated structures are defined as those with a first floor height more than one foot below the BFE



Post-FIRM Minus-Rated Building Ratio

Incorporated Place (n = 229)

- 24.1% - 40%
- 16.1% - 24%
- 9.1% - 16%
- 3.1% - 9%
- 0% - 3%
- Split Community
- Planning and Development Council Region

WVGISTC 2024-06-06

Data Source: Regulatory 1%-annual-chance (100-yr) and high-risk advisory floodplains

Data from 2024-04-22 BLRA

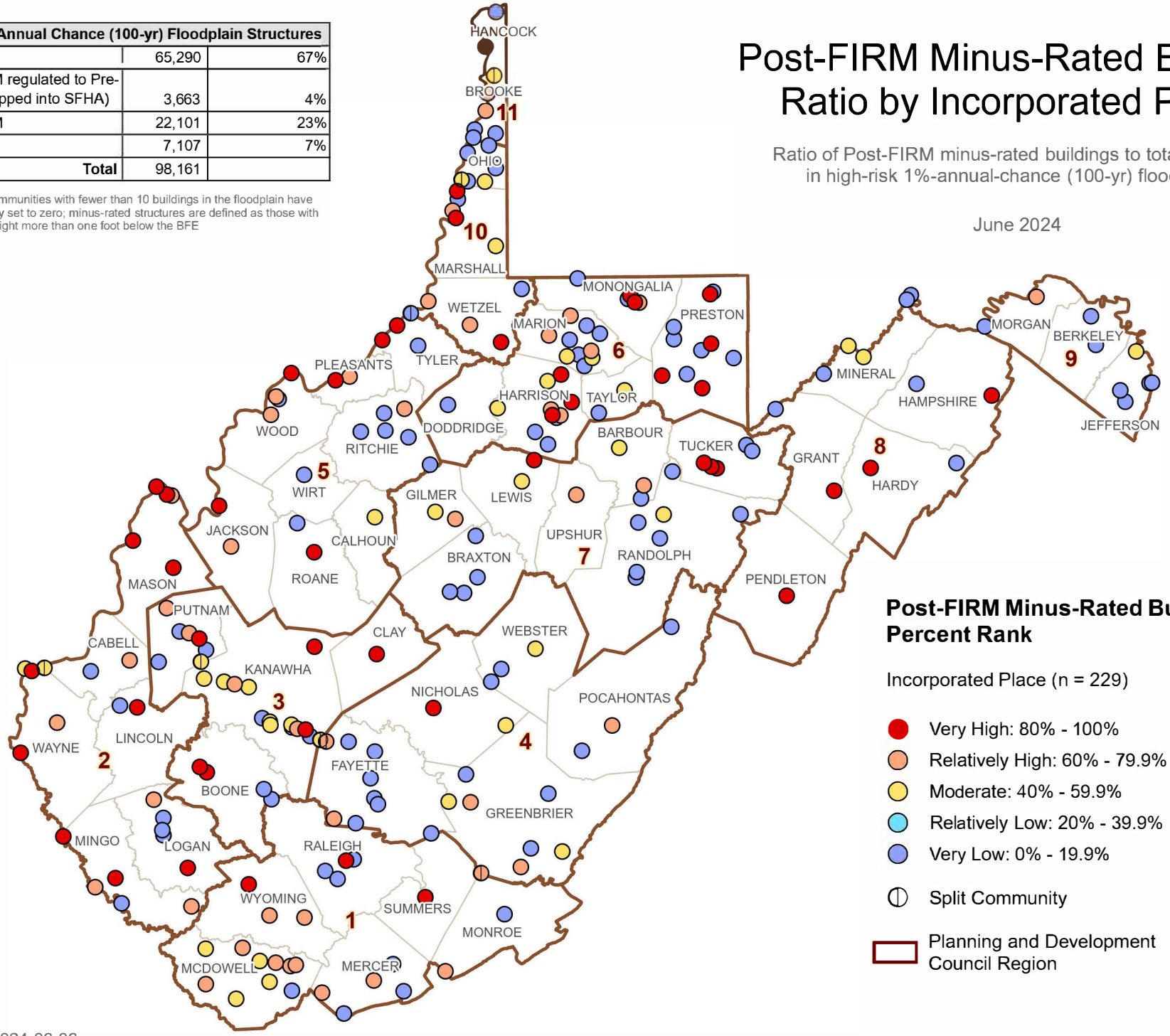
Post-FIRM Minus-Rated Building Ratio by Incorporated Place

Ratio of Post-FIRM minus-rated buildings to total buildings in high-risk 1%-annual-chance (100-yr) floodplains

June 2024

Total 1% Annual Chance (100-yr) Floodplain Structures		
Pre-FIRM	65,290	67%
Post-FIRM regulated to Pre-FIRM (Mapped into SFHA)	3,663	4%
Post-FIRM	22,101	23%
Unknown	7,107	7%
Total	98,161	

* Value for communities with fewer than 10 buildings in the floodplain have been manually set to zero; minus-rated structures are defined as those with a first floor height more than one foot below the BFE



Post-FIRM Minus-Rated Building Ratio Percent Rank

Incorporated Place (n = 229)

- Very High: 80% - 100%
- Relatively High: 60% - 79.9%
- Moderate: 40% - 59.9%
- Relatively Low: 20% - 39.9%
- Very Low: 0% - 19.9%
- Split Community
- Planning and Development Council Region

WVGISTC 2024-06-06

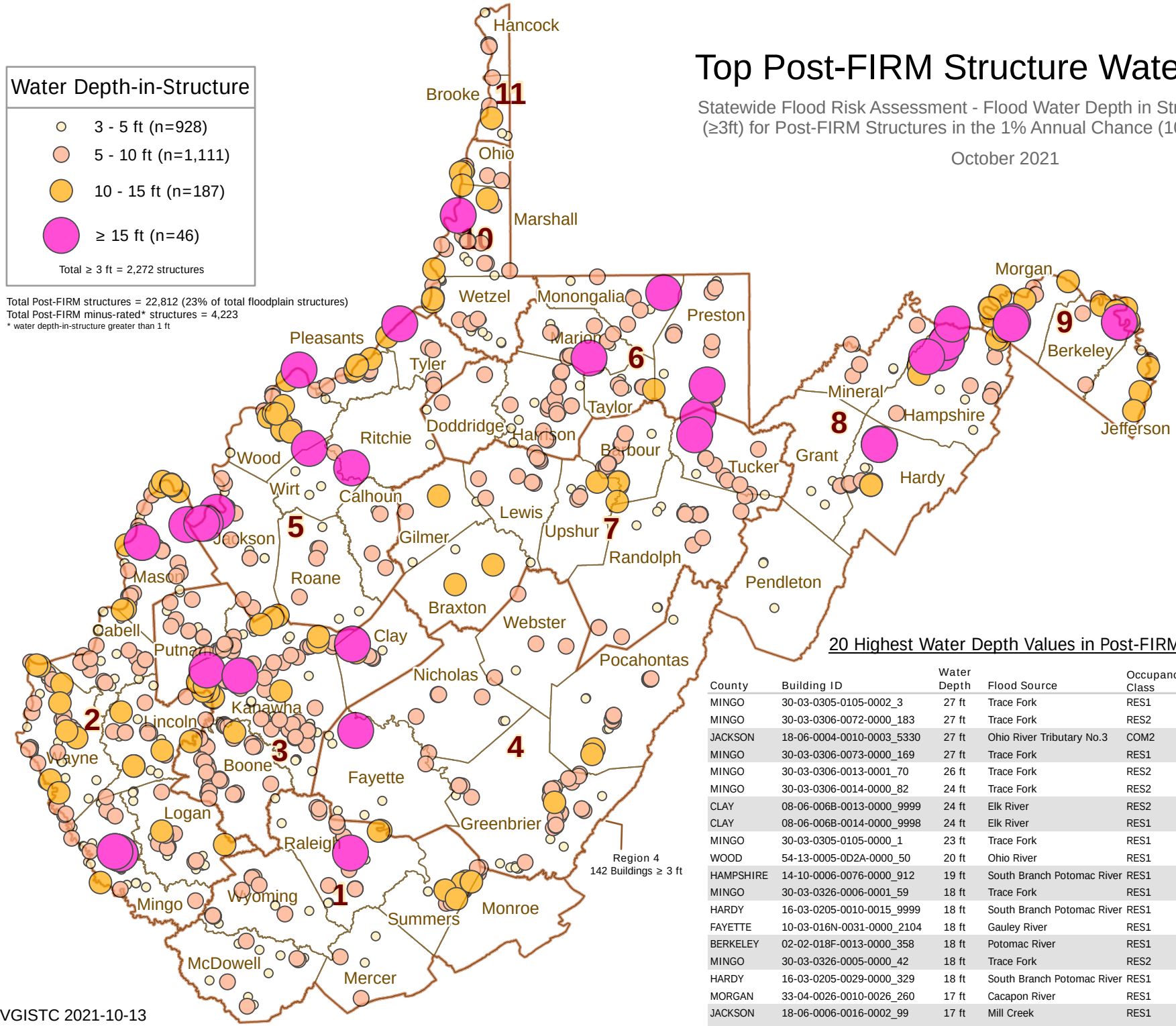
Data Source: Regulatory 1%-annual-chance (100-yr) and high-risk advisory floodplains

Data from 2024-04-22 BLRA

Top Post-FIRM Structure Water Depths

Statewide Flood Risk Assessment - Flood Water Depth in Structure Estimates (≥3ft) for Post-FIRM Structures in the 1% Annual Chance (100-yr) Floodplain

October 2021



WVGISTC 2021-10-13

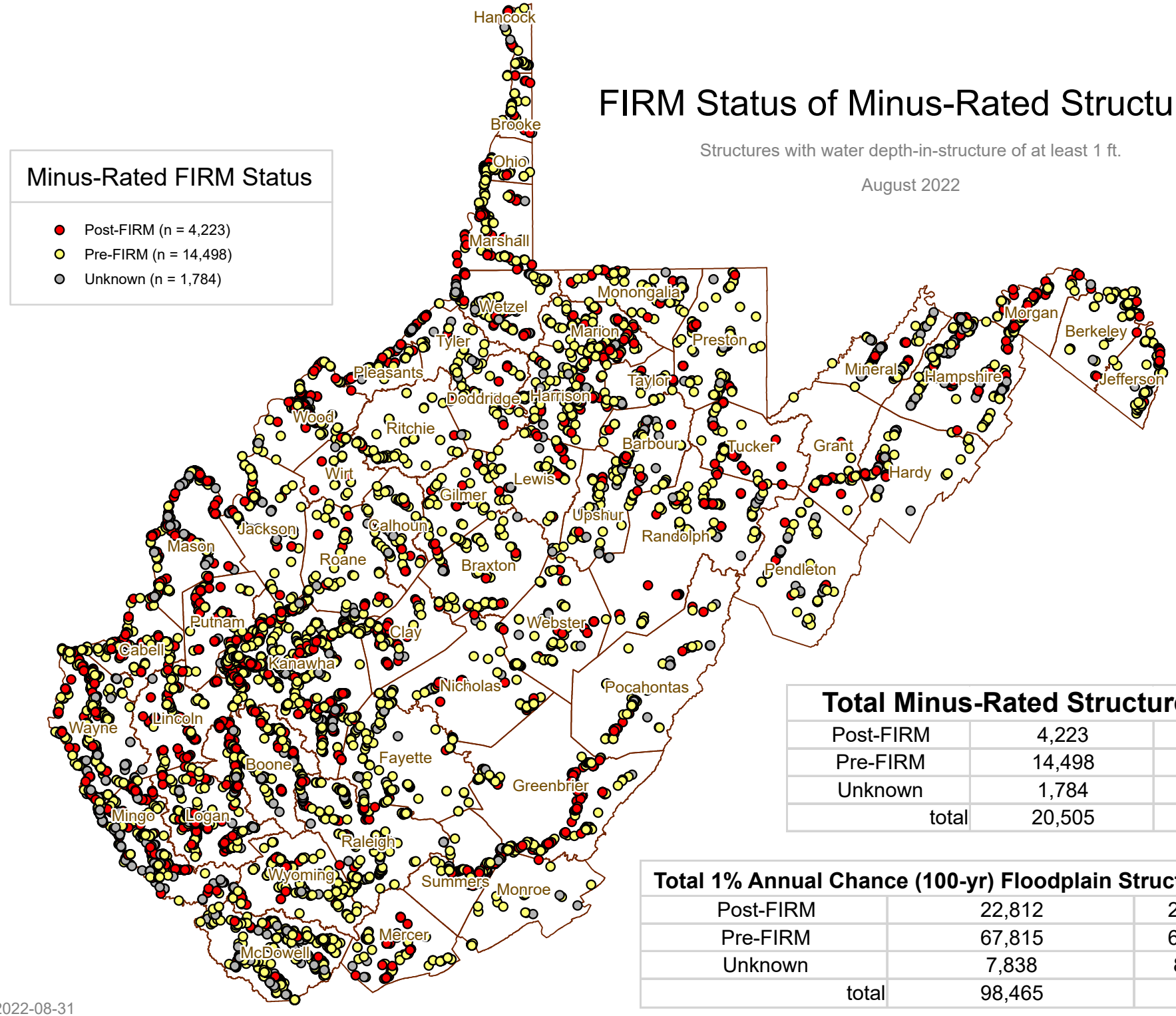
20 Highest Water Depth Values in Post-FIRM Structures

County	Building ID	Water Depth	Flood Source	Occupancy Class	Value	Loss %	Loss $
MINGO	30-03-0305-0105-0002_3	27 ft	Trace Fork	RES1	$132K	81%	$107K
MINGO	30-03-0306-0072-0000_183	27 ft	Trace Fork	RES2	$28K	100%	$28K
JACKSON	18-06-0004-0010-0003_5330	27 ft	Ohio River Tributary No.3	COM2	$1M	73%	$748K
MINGO	30-03-0306-0073-0000_169	27 ft	Trace Fork	RES1	$29K	84%	$24K
MINGO	30-03-0306-0013-0001_70	26 ft	Trace Fork	RES2	$14K	100%	$14K
MINGO	30-03-0306-0014-0000_82	24 ft	Trace Fork	RES2	$10K	100%	$10K
CLAY	08-06-006B-0013-0000_9999	24 ft	Elk River	RES2	$17K	100%	$17K
CLAY	08-06-006B-0014-0000_9998	24 ft	Elk River	RES1	$31K	84%	$26K
MINGO	30-03-0305-0105-0000_1	23 ft	Trace Fork	RES1	$62K	84%	$52K
WOOD	54-13-0005-0D2A-0000_50	20 ft	Ohio River	RES1	$62K	83%	$51K
HAMPSHIRE	14-10-0006-0076-0000_912	19 ft	South Branch Potomac River	RES1	$70K	83%	$58K
MINGO	30-03-0326-0006-0001_59	18 ft	Trace Fork	RES1	$73K	82%	$60K
HARDY	16-03-0205-0010-0015_9999	18 ft	South Branch Potomac River	RES1	$25K	82%	$20K
FAYETTE	10-03-016N-0031-0000_2104	18 ft	Gauley River	RES1	$49K	82%	$40K
BERKELEY	02-02-018F-0013-0000_358	18 ft	Potomac River	RES1	$68K	48%	$33K
MINGO	30-03-0326-0005-0000_42	18 ft	Trace Fork	RES2	$14K	95%	$13K
HARDY	16-03-0205-0029-0000_329	18 ft	South Branch Potomac River	RES1	$50K	82%	$41K
MORGAN	33-04-0026-0010-0026_260	17 ft	Cacapon River	RES1	$49K	82%	$40K
JACKSON	18-06-0006-0016-0002_99	17 ft	Mill Creek	RES1	$160K	82%	$131K
MONONGALIA	31-18-0019-0024-0001_69	17 ft	Cheat River	COM8	$896K	57%	$515K

FIRM Status of Minus-Rated Structures

Structures with water depth-in-structure of at least 1 ft.

August 2022



Total Minus-Rated Structures

Post-FIRM	4,223	20%
Pre-FIRM	14,498	71%
Unknown	1,784	9%
total	20,505	

Total 1% Annual Chance (100-yr) Floodplain Structures

Post-FIRM	22,812	23%
Pre-FIRM	67,815	69%
Unknown	7,838	8%
total	98,465	