Floodplain Area Ratio (SFHA RT) (Incorporated Place Scale)



February 2024

Floodplain Area Ratio

Major Category	Detailed Category	Code	Indicator	Short Description	Unit
Flood Hazard Risk	Floodplain Area	SFHA_RT	Floodplain Area Ratio (Incorporated Place Scale)	Special Flood Hazard Area (SFHA) acreage to Total Community Area	%

Rationale	Recommendations	Data Source
At the community level, incorporated places with a higher ratio of floodplain area to community area face more significant challenges for development. Small towns in which a high percentage of their total incorporated land is in the Special Flood Hazard Area (SFHA) often have a higher flood exposure than other communities. Essential facilities and other significant structures that provide critical services to the community are often located in high-risk floodplains of smaller communities. Recently the small communities of Henderson (Mason), Matoaka (Mercer County), and Rhodell (Raleigh) with a high percentage of floodplain area have dissolved and are now unincorporated.	Smaller jurisdictions must be vigilant in relocating critical facilities away from the floodplain along with enforcing its floodplain management ordinance for any development. Although expensive to build and maintain, engineering flood control structures like levees, floodwalls, and dams protect vulnerable flood-prone communities.	FEMA Flood Insurance Rate Map (FIRM) Streams and Waterbodies (USGS NHD 24K), National Public Lands (USGS PAD- US)

Floodplain Area Ratio; Top 20% Rankings

RANK	All Communities	Percent_Rank	Incorporated Communities	Percent_Rank	
1	Sylvester	100.0%	Sylvester	100.0%	
2	Friendly	99.6%	Friendly	99.5%	
3	Addison	99.2%	Addison	99.1%	
4	Hambleton	98.9%	Hambleton	98.6%	
5	Reedy	98.5%	Reedy	98.2%	
6	Bruceton Mills	98.2%	Bruceton Mills	97.8%	
7	Buffalo	97.8%	Buffalo	97.3%	
8	Parsons	97.5%	Parsons	96.9%	
9	Pine Grove	97.1%	Pine Grove	96.4%	
10	Matewan	96.8%	Matewan	96.0%	
11	Elizabeth	96.4%	Elizabeth	95.6%	
12	Chesapeake	96.1%	Chesapeake	95.1%	
13	Albright	95.7%	Albright	94.7%	
14	Rowlesburg	95.4%	Rowlesburg	94.2%	
15	Capon Bridge	95.0%	Capon Bridge	93.8%	
16	Gary	94.6%	Gary	93.4%	
17	New Martinsville	94.3%	New Martinsville	92.9%	
18	Hartford	93.9%	Hartford	92.5%	
19	Whitesville	93.6%	Whitesville	92.1%	
20	Milton	93.2%	Milton	91.6%	
21	Paw Paw	92.9%	Paw Paw	91.2%	
22	Grantsville	92.5%	Grantsville	90.7%	
23	Buckhannon	92.2%	Buckhannon	90.3%	
24	Jane Lew	91.8%	Jane Lew	89.9%	
25	Marlinton	91.5%	Marlinton	89.4%	
26	Wellsburg	91.1%	Wellsburg	89.0%	
27	Sand Fork	90.8%	Sand Fork	88.5%	
28	Rainelle	90.4%	Rainelle	88.1%	
29	Bancroft	90.1%	Bancroft	87.7%	
30	Point Pleasant	89.7%	Point Pleasant	87.2%	
31	Alderson**	89.3%	Alderson**	86.8%	
32	Montrose	89.0%	Montrose	86.4%	
33	Clay	88.6%	Clay	85.9%	
34	Rupert	88.3%	Rupert	85.5%	
35	Womelsdorf (Coalton)	87.9%	Womelsdorf (Coalton)	85.0%	
36	Cowen	87.6%	Cowen	84.6%	
37	Kimball	87.2%	Kimball	84.2%	
38	Harman	86.9%	Harman	83.7%	
39	Fort Gay	86.5%	Fort Gay	83.3%	
40	Wayne	86.2%	Wayne	82.8%	
41	Mason Monongah	85.8% 85.5%	Mason Monongah	82.4% 82.0%	
42	Moundsville	85.5%	Moundsville	82.0%	
43	Beverly	84.8%	Beverly	81.5%	
44	Moorefield	84.4%	Moorefield	81.1%	
46	Kermit	84.0%	Kermit	80.7%	
40	New Haven	83.7%	Nertifit	00.270	
48	Glenville	83.3%			
49	Clendenin	83.0%			
50	Hendricks	82.6%			
51	Richwood	82.3%			
52	Ceredo	81.9%			
53	Hamlin	81.6%			
54	Pax	81.2%			
55	Eleanor	80.9%			
56	West Hamlin	80.5%			
57	Williamstown	80.2%			
<u> </u>		00.270			

Colors:

Black --> Incorporated areas

Brown --> Unincorporated areas

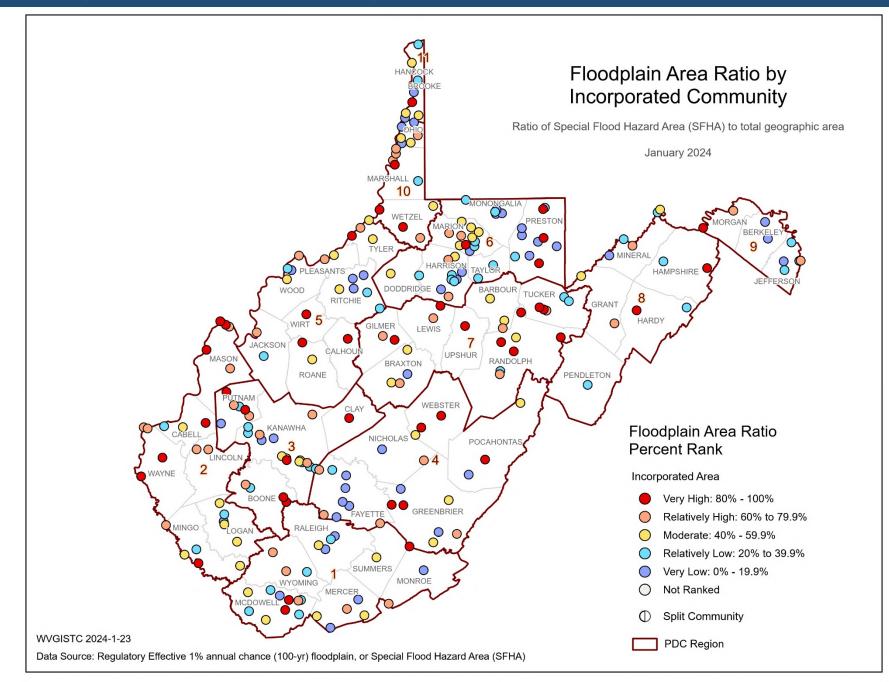
Green --> Counties (Total)

Red --> Split communities

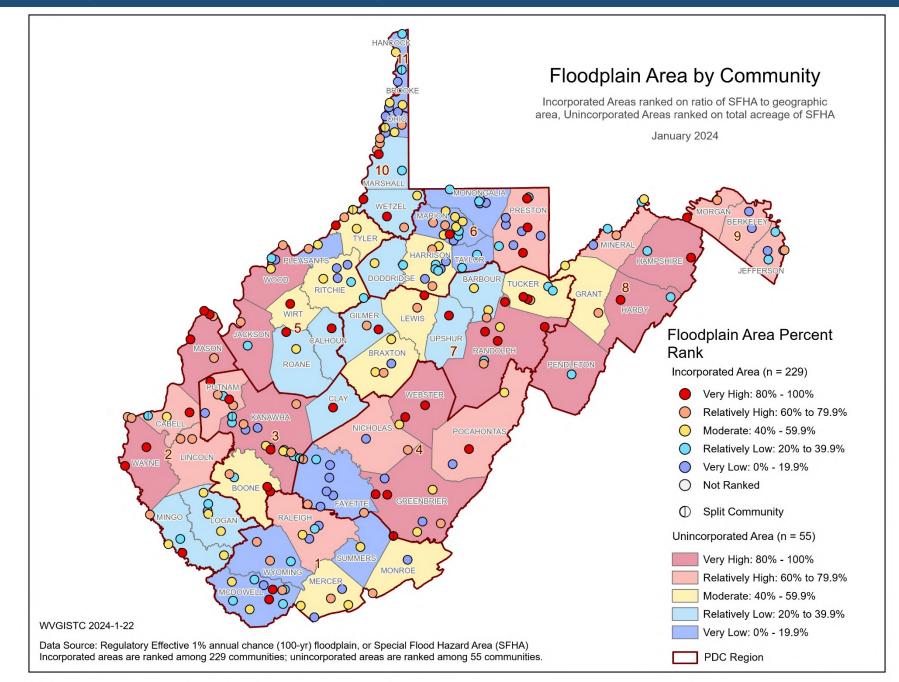
Blue --> Incorporated communities participating in the National Flood Insurance Program (NFIP) with no regulatory Special Flood Hazard Area (SFHA) Purple --> Incorporated communities with no regulatory Special Flood Hazard Area (SFHA) not participating in the National Flood Insurance Program (NFIP) (not mentioned in the FEMA's Community Status Book Report)

Black on blue: Six incorporated communities included in the detailed risk study (Camden-on-Gauley, Clendenin, Rainelle, Richwood, White Sulphur Springs, and Marlinton)

Floodplain Area Ratio; Maps



Floodplain Area Ratio; Maps



Floodplain Area Ratio; Focus Communities

Legend:

Red: 90% to 100%

Indicator	White Sulphur Springs	Rainelle	Clendenin	Richwood	Marlinton	Camden- on-Gauley	Statewide Median
Total SFHA Area (acres)	267	223	235	247	494	35	77
Water Bodies > 10 acres & Wide Streams > 500 ft.	0	0	0	0	0	0	0
Federal Lands (> 10 acres)	0	0	0	0	0	0	0
Modified Total SFHA Area (acres) (Minus large water bodies and federal lands)	267	223	235	247	494	35	74
Total Community Area (acres)	1,214	714	974	1,068	1,566	214	559
Ratio of aSFHA to Community Area	22.0%	31.2%	24.1%	23.1%	31.5%	16.4%	13.8%
Floodplain Area Ratio Percent Ranks	74.2% (Relatively High)	87.7% (Very High)	78.6% (Relatively High)	77.7% (Relatively High)	89.0% (Very High)	58.5% (Moderate)	-
Percent Rank Very High: 80% to 100% Relatively High: 60% to 79.9% Moderate: 40% to 59.9% Relatively Low: 20% to 39.9% Very Low: 0% to 19.9%							

Floodplain Area Ratio; Findings

Top 10 incorporated communities with the highest Floodplain Area Ratio:

BLDG SFHA Ratio, Top 10 Communities

	BLDG SFRA Ratio, top to communities										
Rank	Community	County	RPDC Region	Total SFHA Area (acres)	Water Bodies > 10 acres & Wide Streams > 500 ft.	Federal Lands (> 10 acres)	Modified Total SFHA Area (acres) (Minus large water bodies and federal lands)	Total Community Area (acres)	Ratio of aSFHA to Community Area	Percent Rank	
INCC	INCORPORATED										
1	Sylvester	Boone	3	27	0	0	27	34	79.4%	100.0%	
2	Friendly	Tyler	5	43	5	0	38	65	58.5%	99.5%	
3	Addison	Webster	4	171	0	0	171	303	56.4%	99.1%	
4	Hambleton	Tucker	7	83	0	0	83	166	50.0%	98.6%	
5	Reedy	Roane	5	60	0	0	60	125	48.0%	98.2%	
6	Bruceton Mills	Preston	6	17	0	0	17	36	47.2%	97.8 %	
7	Buffalo	Putnam	3	342	0	0	342	745	45.9%	97.3%	
8	Parsons	Tucker	7	230	0	0	230	529	43.5%	96.9%	
9	Pine Grove	Wetzel	10	103	0	0	103	243	42.4%	96.4%	
10	Matewan	Mingo	2	145	0	0	145	348	41.7%	96.0%	

Floodplain Area Ratio; Findings

Summary of Findings:

- The median ratio of **modified area of floodplains (aSFHA) to community area** for all incorporated places statewide is **13.8%.**
- Among the incorporated communities, **Sylvester** in Boone County has the highest ratio (79.4%) followed by **Friendly** in Tyler County (58.5%).

Focus Communities Highlights:

- Marlinton and Rainelle are among the *top 20% incorporated communities* in terms of the ratio of modified area of floodplains (aSFHA) to community area with 31.5% and 31.2% of their areas covered with such high-risk zones, respectively.
- Clendenin (24.1%), Richwood (23.1%), and White Sulphur Springs (22.0%) are among the *top 40% incorporated communities* in terms of the ratio of modified area of floodplains (aSFHA) to community area.
- The ratio of modified area of floodplains (aSFHA) to community area is **higher than the statewide median** for all incorporated areas (13.8%) in all six focus communities.