

Physical and Human Flood Loss

White Sulphur Springs and Rainelle

Category	Loss Indicator	White Sulphur Springs	Rainelle	Rate* in WV Incorporated Areas (2021)
Physical (Building) Loss	TEIF Building Dollar Loss Estimates	\$1,225K	\$997K	\$1,246K (Avg.)
	TEIF Building Loss Ratio	3%	6%	10%
	Median Individual Building Damage	\$3K	\$2K	\$7K (Mdn.)
	Substantial Damage (>50%) Estimates	0 <small>89 in 2016 Flood</small>	1	7 (Avg.)
	Percent Substantial Damage Estimates	0%	0%	6% (Avg.)
	Moderate Damage (10-50%) Estimates	78	109	47 (Avg.)
	Percent Moderate Damage Estimates	18%	32%	34% (Avg.)
	Building Debris Removal Estimates	450 ton	814 ton	165 ton (Mdn.)
	Number of Previous Paid Losses	89	152	63 (Avg.)
	Dollar Amount of Previous Insurance Claims	\$2,975K	\$3,720K	\$845K (Avg.)
Human Loss	Number of Repetitive Loss Structures	2	23	3 (Mdn.)
	Displaced Population Estimates	481	492	173 (Avg.)
	Estimated Population in Need of Short-Term Shelter	104	123	37 (Avg.)

* For numbers and dollar values, used median, or average where the median was zero or too low, in the state's 213 incorporated areas.

Structures with High Building Loss White Sulphur Springs

Highest Building Loss (USD) in White Sulphur Springs:

Building ID: 13-17-0008-0186-0000_703
Hazard Occupancy Class: COM8 (Restaurant)
FIRM Status: Pre-FIRM (1968)
Water Depth in Structure: 1.2 ft (minus rated -1 ft)
Appraised Value: \$1,422,200
Estimated Building Loss: \$133,687
Building Damage Percentage: 10%

[Flood Tool Link](#)



Highest Building Damage Percentage in White Sulphur Springs:

Building ID: 13-17-0008-0435-0000_382
Hazard Occupancy Class: RES1 (Residential 1 Family)
FIRM Status: Post-FIRM (1988)
Water Depth in Structure: 3.9 ft (minus rated -4 ft)
Appraised Value: \$62,200
Estimated Building Loss: \$28,799
Building Damage Percentage: 46%

[Flood Tool Link](#)



Structures with High Building Loss Rainelle

Highest Building Loss (USD) in Rainelle:

Building ID: 13-13-0001-0077-0000_144
Hazard Occupancy Class: RES1 (Residential 1 Family)
FIRM Status: Post-FIRM regulated to Pre-FIRM (2005)
Water Depth in Structure: 3.7 ft (minus rated -4 ft)
Appraised Value: \$92,800
Estimated Building Loss: \$41,667
Building Damage Percentage: 45%

[Flood Tool Link](#)



Highest Building Damage Percentage in Rainelle:

Building ID: 13-13-0001-0091-0000_435
Hazard Occupancy Class: RES2 (Mobile Home)
FIRM Status: Pre-FIRM (1973)
Water Depth in Structure: 2.7 ft (minus rated -3 ft)
Appraised Value: \$11,600
Estimated Building Loss: \$8,120
Building Damage Percentage: 70%

[Flood Tool Link](#)



Criteria, Rationale, and Data Sources

Loss Indicator	Criteria	Rationale	Data Source
TEIF Building Dollar Loss Estimates	Using FEMA's open-source Hazus utility, Flood Assessment Structure Tool (FAST) for a 1%-annual-chance flood event to calculate the damage percentages of the total building values (Total Exposure in Floodplain or TEIF)	Flood loss models quantify the degree of flood risk, including estimates of substantially damaged structures. Quantifying the degree of flood risk is important for risk communications and flood reduction efforts.	BLRA of 10/19/2022 (based on 2022 tax assessment), Total Exposure in Floodplain (TEIF), Building percent damage estimate values, Depth grids
TEIF Building Loss Ratio			
Median Individual Building Damage			
Substantial Damage (>50%) Estimates	Number/percent of primary structures with the estimated damages of greater than 50% of the building value		BLRA of 10/19/2022 (based on 2022 tax assessment), Total Exposure in Floodplain (TEIF), Building percent damage estimate values, Depth grids
Percent Substantial Damage Estimates			
Moderate Damage (10-50%) Estimates	Number/percent of primary structures with the estimated damages of 10% to 50% of the building value		BLRA of 10/19/2022 (based on 2022 tax assessment), Total Exposure in Floodplain (TEIF), Building percent damage estimate values, Depth grids
Percent Moderate Damage Estimates			
Building Debris Removal Estimates	The total tonnage of building debris that will be generated from a riverine 1%-annual-chance flood event based on FEMA's Hazus Flood Model. The model calculates only debris from the structure and not other types of debris (e.g., woody debris, sediment, content of buildings, etc.).	Debris disposal can be a significant issue following floods. Debris removal estimates should be incorporated into debris removal plans.	BLRA of 10/19/2022 (based on 2022 tax assessment), Total Exposure in Floodplain (TEIF)
Number of Previous Paid Losses	Number of paid losses in the community's history up to 2019	A high number of claims in a community indicates that flooding is occurring, and community members are making claims against their policies.	FEMA's Community Information System (CIS) 2019

Criteria, Rationale, and Data Sources...

Loss Indicator	Criteria	Rationale	Data Source
Dollar Amount of Previous Insurance Claims	Dollar amount of paid losses in the community's history up to 2019	A high total dollar amount of previous claims in a community indicates that flooding is occurring, and community members are making claims against their policies.	FEMA's Community Information System (CIS) 2019
Number of Repetitive Loss Structures	Number of structures (covered by NFIP Policies) that have experienced repetitive losses.	A preponderance of repetitive loss structures indicates that the community is at a higher risk for future losses.	FEMA's Community Information System (CIS) 2019
Displaced Population Estimates	Estimated Displaced Population (by inundation >= 1 foot) for a 1%-Annual-Chance Flood	The short-term displacement may happen by inundation causing damages to the residential units or blocking access to them. The evacuees plan to return to their communities after the inundation ends and the damaged residential units are restored. Until then, they may stay with their relatives or friends in safer areas, go to hotels, or use short-term shelters. The flood depth of evacuation is considered one foot that is the inundation at which vehicles begin to float.	BLRA of 10/19/2022 (based on 2017 tax assessment), Census 2017 ACS
Estimated Population in Need of Short-Term Shelter	Estimated Population in Need of Short-Term (up to two weeks) shelters computed using Hazus methodology with modifications of Age and Income (adjusted for inflation) factors.	A Short-Term Shelter is in an existing facility, such as a school, community center, convention center, or church temporarily converted to provide safe, accessible, and secure short-term housing for disaster survivors. It provides safe and accessible locations with a wide range of services for the survivors for up to two weeks.	BLRA of 10/19/2022 (based on 2017 tax assessment), Census 2017 ACS