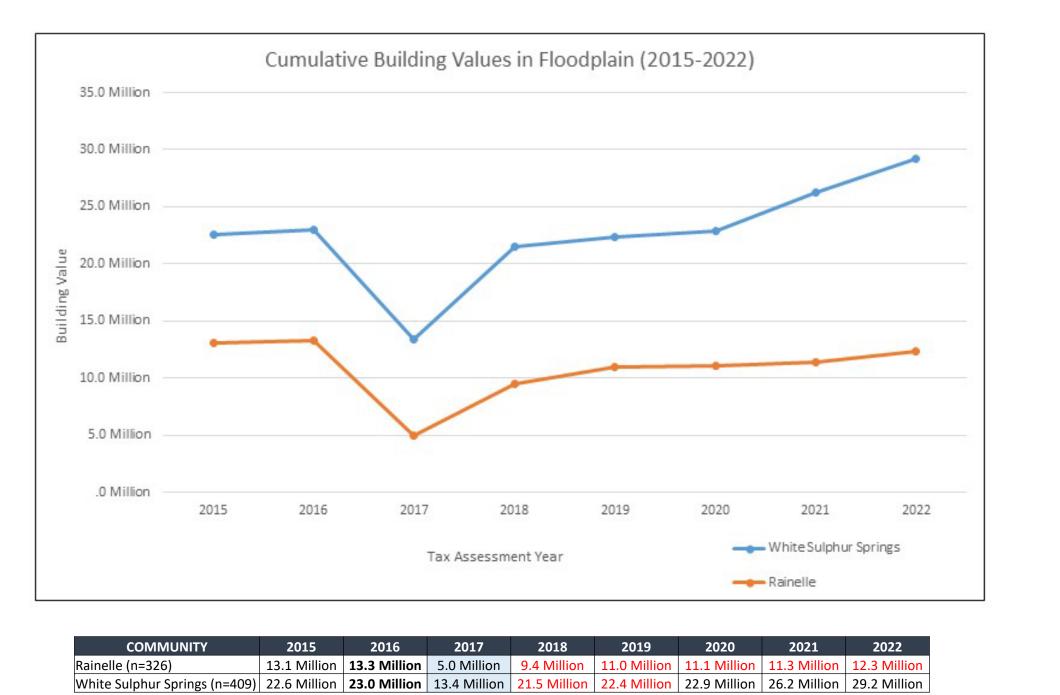
Mitigation Measures White Sulphur Springs and Rainelle

Category	Mitigation Indicator	White Sulphur Springs	Rainelle
Mitigated Structures	Elevated Structures to Design Flood Elevation (DFE)	217	87
	Rehabilitated/Repaired Structures	394	278
	Unmitigated Low Value Structures	14	47
	Structures Removed (vacant parcel)	49	41
Open Space Preservation	Buyout Parcels (Deed Restricted)	16	18
	Community-Owned Vacant Parcels	66	88
	Area of Open Space Preservation (OSP)	5 Acres	3 Acres
	Ratio of Open Space Preservation (OSP to SFHA)	2.6%	4.5%
Building Value Recovery	Net Value 2016-2022 Tax Assessment Value	+ \$6.1 Million	- \$1.0 Million
Loss Avoidance 100-year Flood	Loss Avoidance by Elevating or Removing Structures (preliminary results)	\$2.6 million	\$2.3 million

Floodplain Building Value Recovery White Sulphur Springs and Rainelle



Source: Tax assessment database. May not include values for tax exempt properties.

White Sulphur Springs and Rainelle

Mitigation Measures (Continued)

in/mapped out of SFHA)

New Construction Structures:

White Sulphur Springs, WV

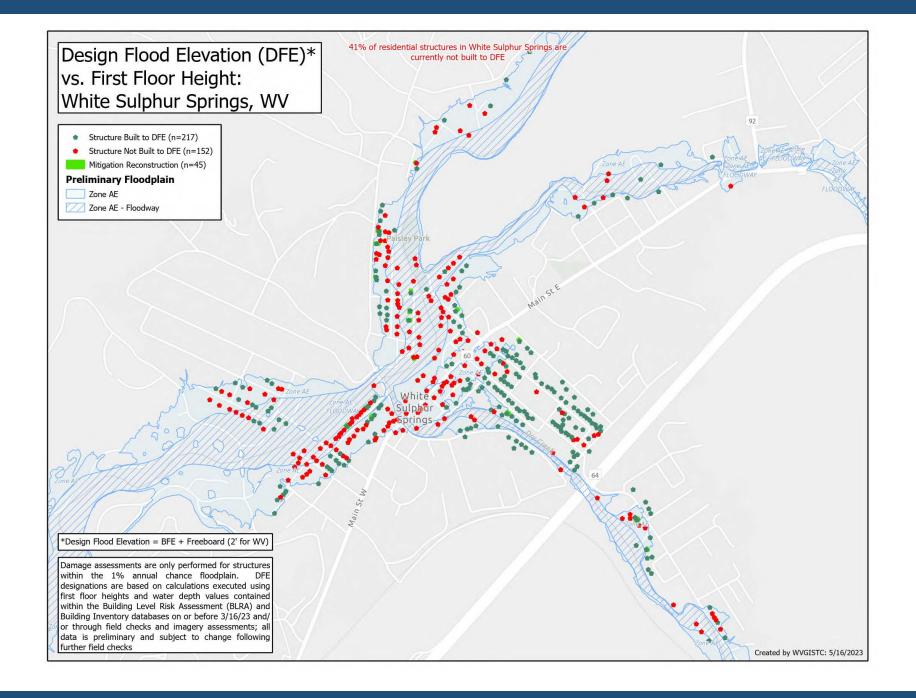
Mitigated Properties

White Sulphur Springs

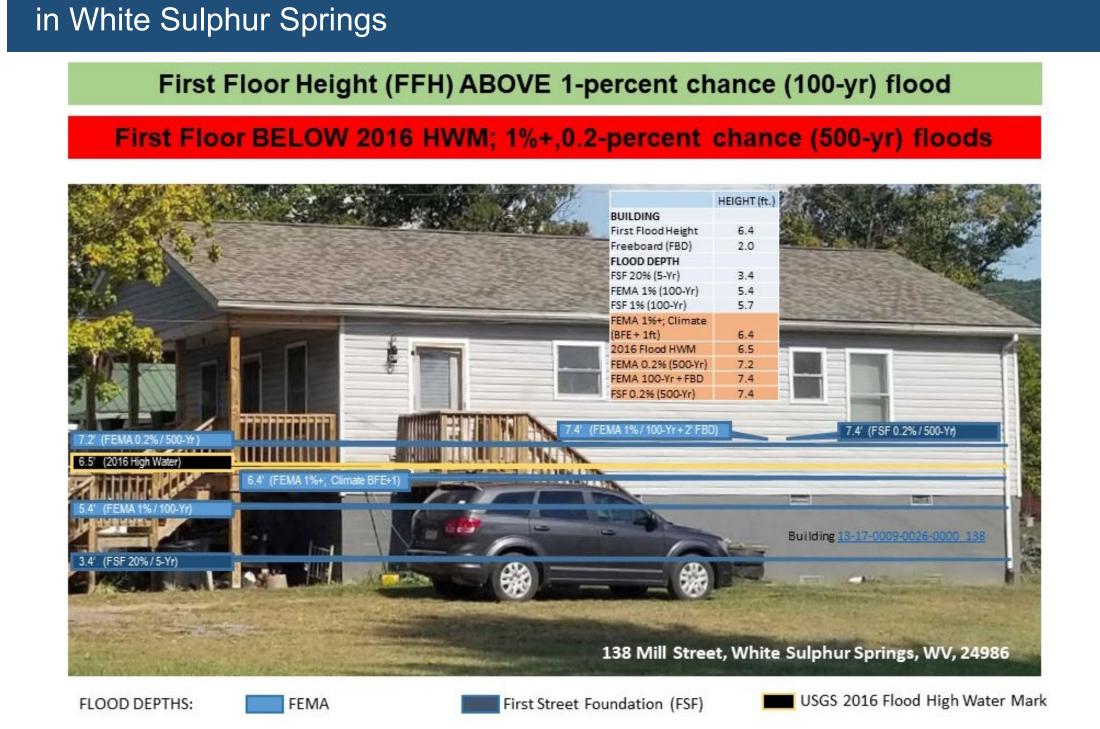
Category	Mitigation Indicator	White Sulphur Springs	Rainelle
Resiliency to Future Floods	Percent Residential Structures in 100-year floodplain elevated to Design Flood Elevation (DFE)	59%	35%
Higher Standards	Freeboard (safety elevation factor above BFE)	2 ft.	2 ft.
	Community Rating System (above min. requirements)	No	No
Floodplain Management	Incorporated Place a compacted floodplain management area to enforce floodplain ordinance	Yes	Yes
	Continuity of operations and immediate response to disasters	?	?
	Record keeping (permits, EC's, substantial damage)	Yes	?
Flood Insurance	Number of Policies 2023	67	36
Rick	Flood Risk Disclosure Laws in West Virginia	F grade	F grade

Dutreach to property owners about changes to flood maps (mappe

Building Design Flood Elevation White Sulphur Springs



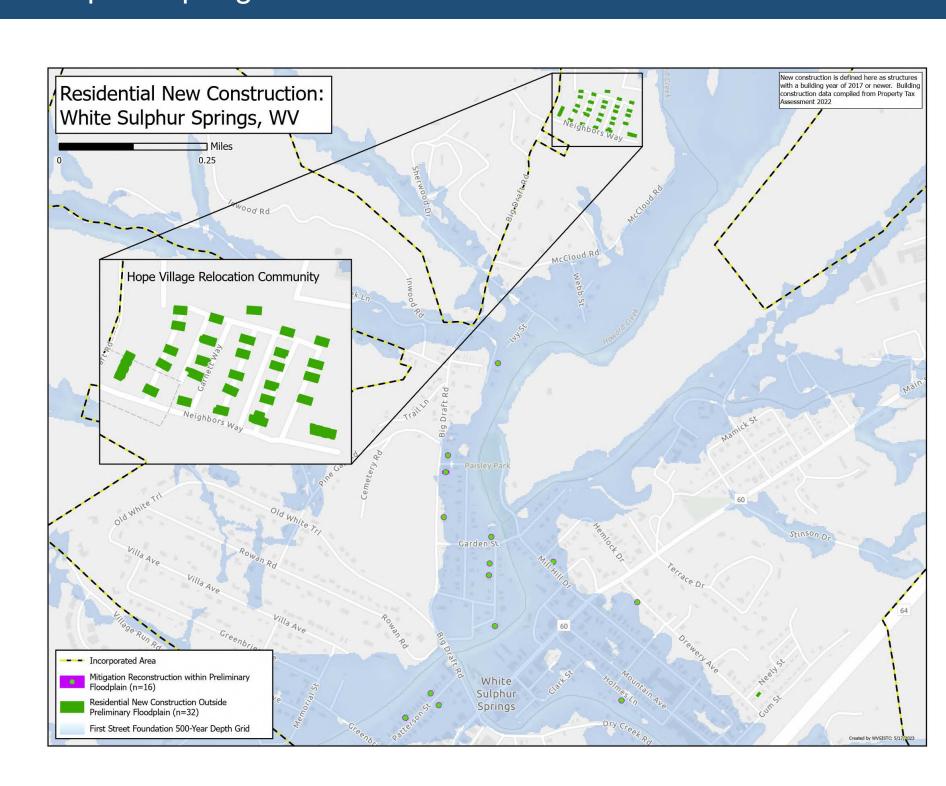
Mitigation Reconstruction Example



Flood vents not compliant (n = 1) (No flood vents) Buyout Properties FEMA 1% Annual Chance Flood Depth 24 0 — Incorporated Place

Flood Vents Compliant (n = 15)

Relocation Community White Sulphur Springs



Examples of **Properly Elevated Structures** in White Sulphur Springs





Building ID: 13-17-0009-0009-0000_148



Building ID: 13-17-0008-0152-0000_195

Flood Risk Mitigation In White Sulphur Springs

WV GIS Technical Center May 2023



New Streamgages
White Sulphur Springs

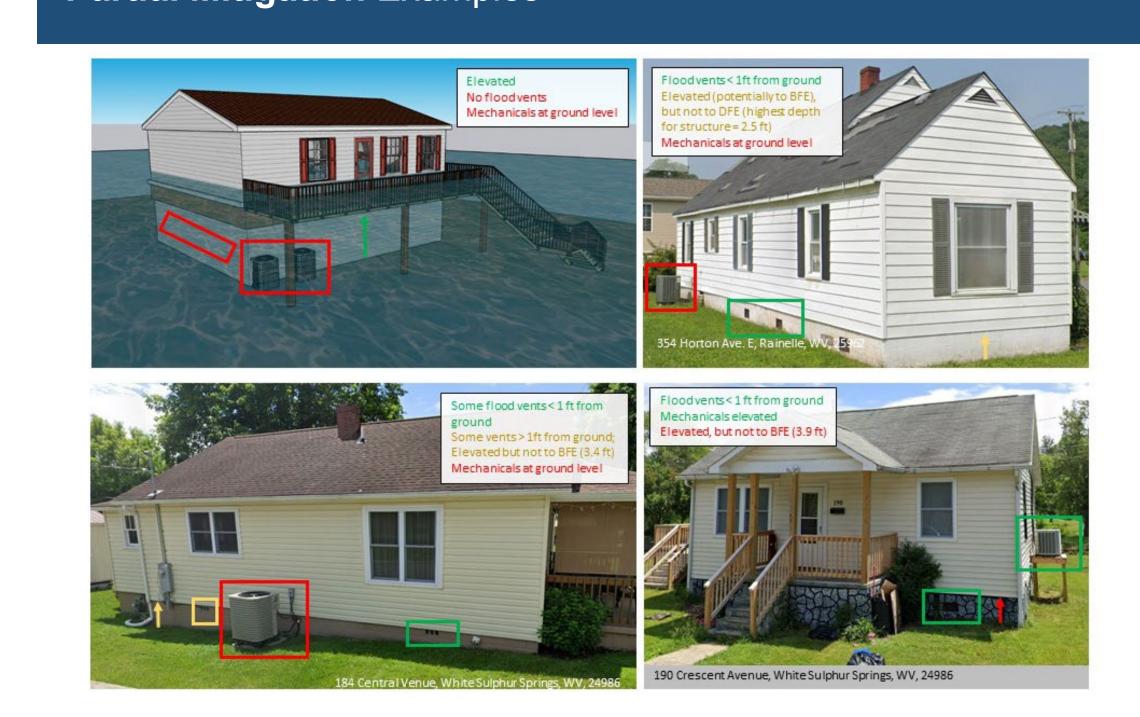


Partial Mitigation Examples

Unmitigated Example

in White Sulphur Springs

FSF 20% (5-Yr) FSF 1% (100-Yr) FSF 0.2% (500-Yr) FEMA 1% (100-Yr) 2016 Flood HWM



First Floor Height (FFH) BELOW FEMA 1-percent chance (100-yr) flood

First Floor BELOW 2016 HWM; 1%+,0.2-percent chance (500-yr) floods

220 Central Avenue, White Sulphur Springs, WV, 24986

USGS 2016 Flood High Water Mark

Damage (2016 Flood) and Mitigation Central Ave., White Sulphur Springs

Damage (2016 flood) and Mitigation: White Sulphur Springs, WV



Building REMOVED (Vacant Parcel)
 REPAIR of Substantially Damaged (>50%) Building
 Mitigation RECONSTRUCTION

ACQUISITION or Buyout Property