Flood Frequency

Frequency: Probability that a flood of a specific size will be equaled or exceeded in any given year.

FEMA			
Flood Recurrence Interval and Flood Size	Annual Probability	Cumulative Probability - Flooding at least once over 30 years	FEMA Risk Description
500 yr (1 in 500)	0.2%	6%	Moderate Risk
100 yr (1 in 100) Plus confidence error	1%+		
100 yr (1 in 100)	1%	26%	High Risk
50 yr (1 in 50)	2%	45%	High Risk
25 yr (1 in 25)	4%	71%	High Risk
10 yr (1 in 10)	10%	96%	High Risk

Climate scenarios generated from BFE + 1 ft. or 1%+ Recurrence interval

First Street Foundation (FSF)			
Flood Recurrence Interval and Flood Size (2022, 2037, 2052)*	Annual Probability (flooding at least 1 cm)	Cumulative Probability - Flooding at least once over 30 years	First Street Risk Description
500 yr (1 in 500)	0.2%	>0%	Any Risk
100 yr (1 in 100)	1%	>26%	Substantial Risk
20 yr (1 in 20)	5%	> 85%	
5 yr (1 in 5)	20%	>99%	Almost Certain Risk

5-, 10-, 20-, 25-, 50-, 100-, and 500-year flood elevations (above sea level) refer to expected water levels of the 20%, 10%, 5%, 4%, 2%, 1%, and 0.2% annual chance flood events.

The Differences between FEMA Flood Maps and Flood Risk Factors by FSI

Differences	FEMA	(FSF)
Scale of Flood Risk	Mapping Risk by Zones	Identifying the Risk on Property Level
Future Risk	Maps are not Adjusting based on Climate Change & and its impact on Future Floods	Considering the effect of Sea level Rise & Atmospheric Change in the next 30 years on Flood Risk
Insurance Rates	Maps are Intended to Inform Flood Insurance Rates	Does not Determine Whether the Property Needs Flood Insurance
Development Requirement	Determining Development for the Areas at Risk	Assessing Risk for an Individual Property

2022 Flood Study Sources: FEMA and First Street Foundation (FSF)

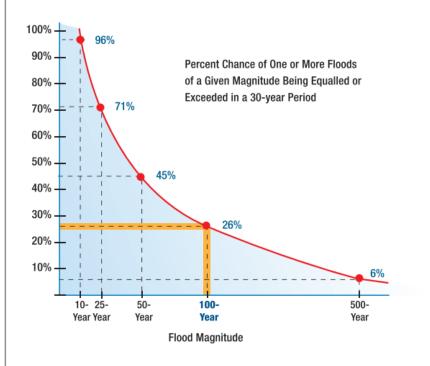
Climate scenarios available for 3 flood depth years (2022-today, 2037-15 years, 2052-30 years)

Flood Characteristics

Flood Characteristics Impacting Community

- Frequency: Probability that a flood of a specific size will be equaled or exceeded in any given year
- 5-, 10-, 20-, 25-, 50-, 100-, and 500-year flood elevations (above sea level) refer to expected water levels of the 20%, 10%, 5%, 4%, 2%, 1%, and 0.2% annual chance flood events. A 1000-yr flood has a 0.1% chance of happening in any given year.
- FEMA's 1%+ flood elevations measures how high the 100-year flood could be given the statistical uncertainties in flood modeling. It represents the upper 84-percent confidence limit of the statistical error for calculating the 1-percent annual chance event.
- The relative frequency of any given flood (e.g., 5-year or 10-year) serves as a useful reference point when selecting a mitigation options and evaluating cost effectiveness.
- Depth: Flood depth or water surface elevation above the ground surface
- o Critical during design considerations, as it is often the primary factor in evaluating the potential for flood damage
- o Flood depth sources include flood models and high water marks which measure the degree of flooding
- Velocity: Speed at which the floodwaters are flowing
- o Flowing water often causes erosion and scour, as well as debris impacts and hydrodynamic forces.
- o FEMA's detailed engineering studies provide river/stream flows
- Duration: Measure of how long water remains above normal levels.
- Prolonged contact with floodwaters may make some mitigation measures, including dry flood-proofing, inappropriate because of the increased chance of seepage and potential structural failure.
- Long periods of inundation are more likely to cause greater damage to structural members and finishes than short periods of flooding.
- Rate of Floodwater Rise and Fall: Floodwater that rises very quickly with little or now warning
- Steep topography and locations with small drainage areas may experience flash flooding in which floodwater can rise very quickly with little or no warning.
- High-velocity water flows usually accompany flash floods and preclude certain types of flood mitigation measures, especially those requiring human intervention
- Rapid rates of the rise and fall of floodwater can also lead to unequal hydrostatic pressures on a building. The probability of unequal hydrostatic pressures increases when building exteriors are designed to be watertight
- Historical Information: Use past information like the high-water marks of the 2016 Flood as an indication of the nature and severity of effects likely to occur during future events.





Relationship between flood recurrence intervals and the probability of an event occurring within a given period



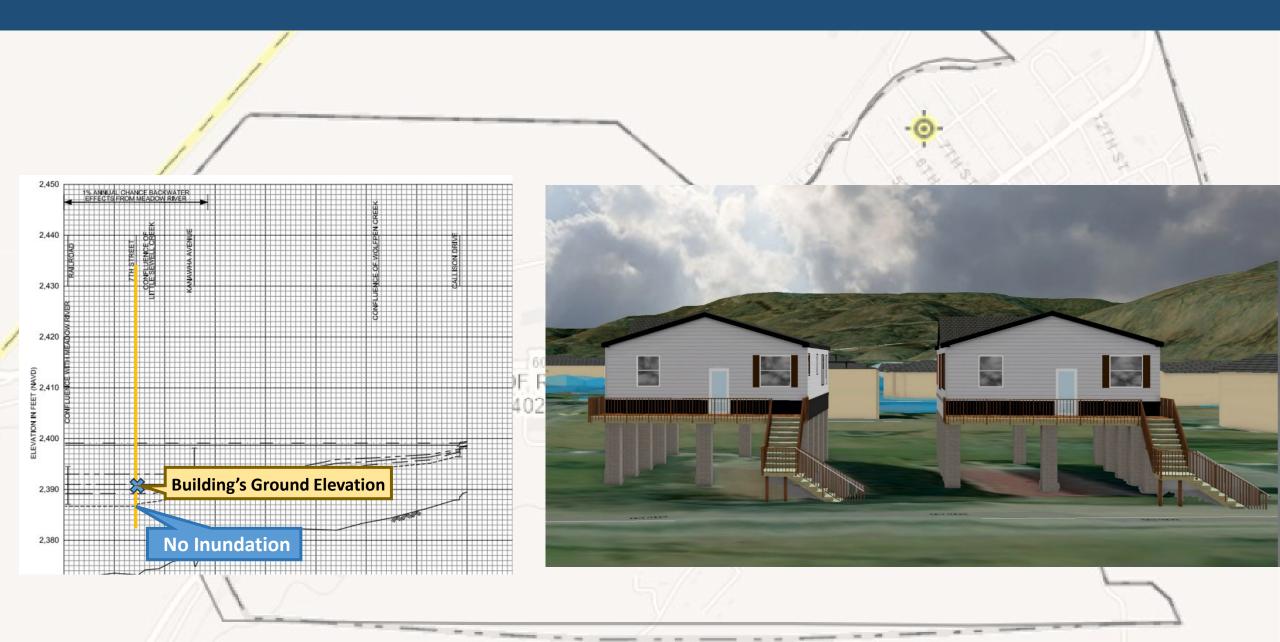
Rainelle



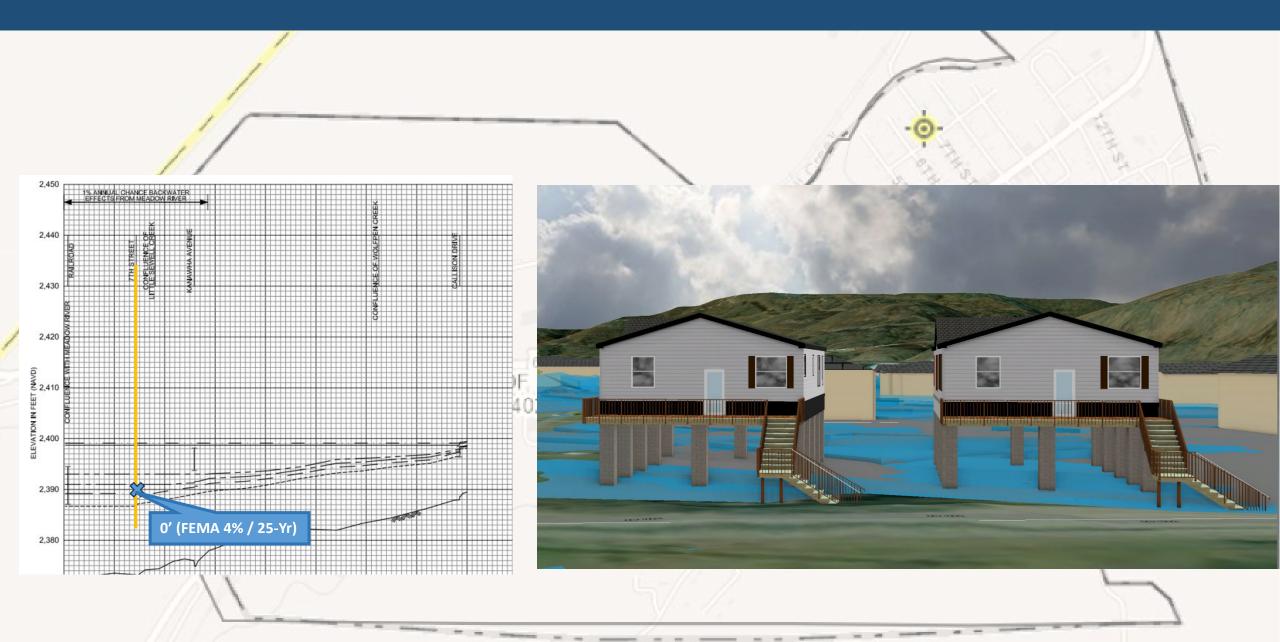


O DO

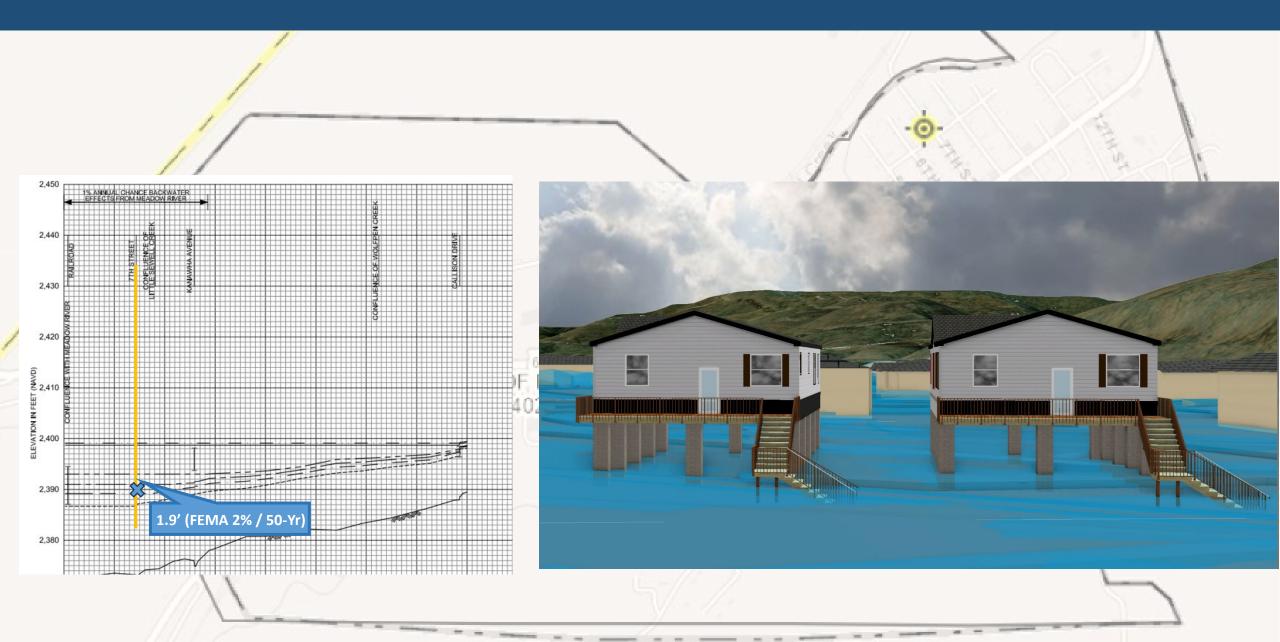
10% Probability of Flood in a year (10-year flood)



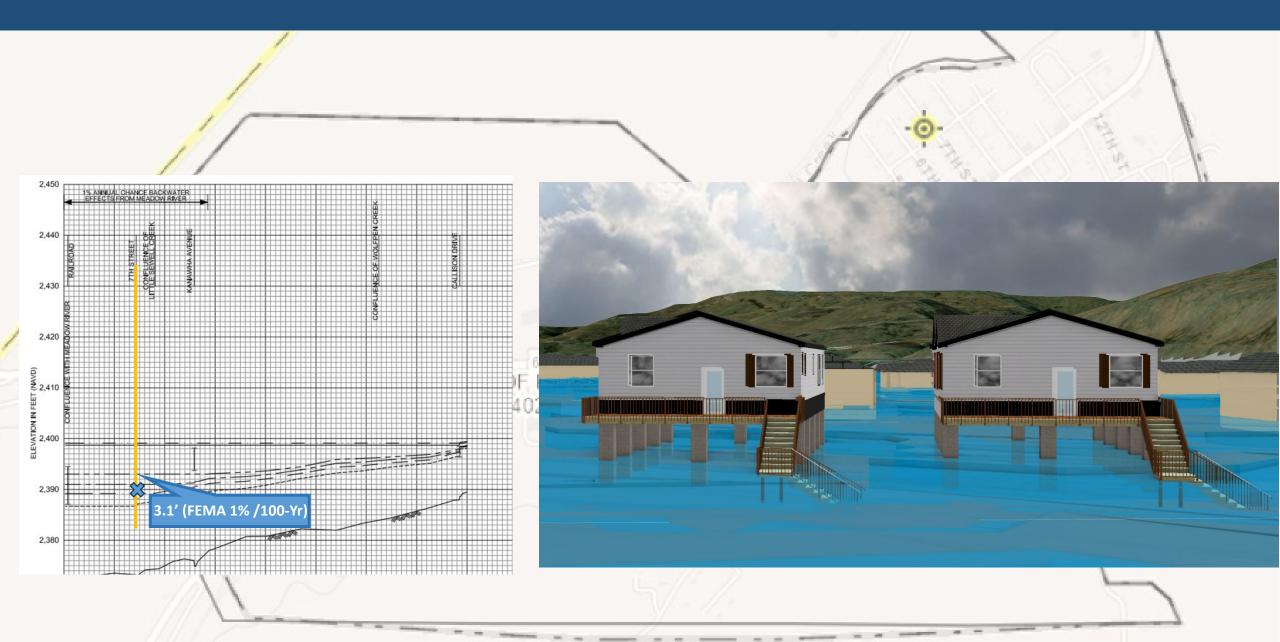
4% Probability of Flood in a year (25-year flood)



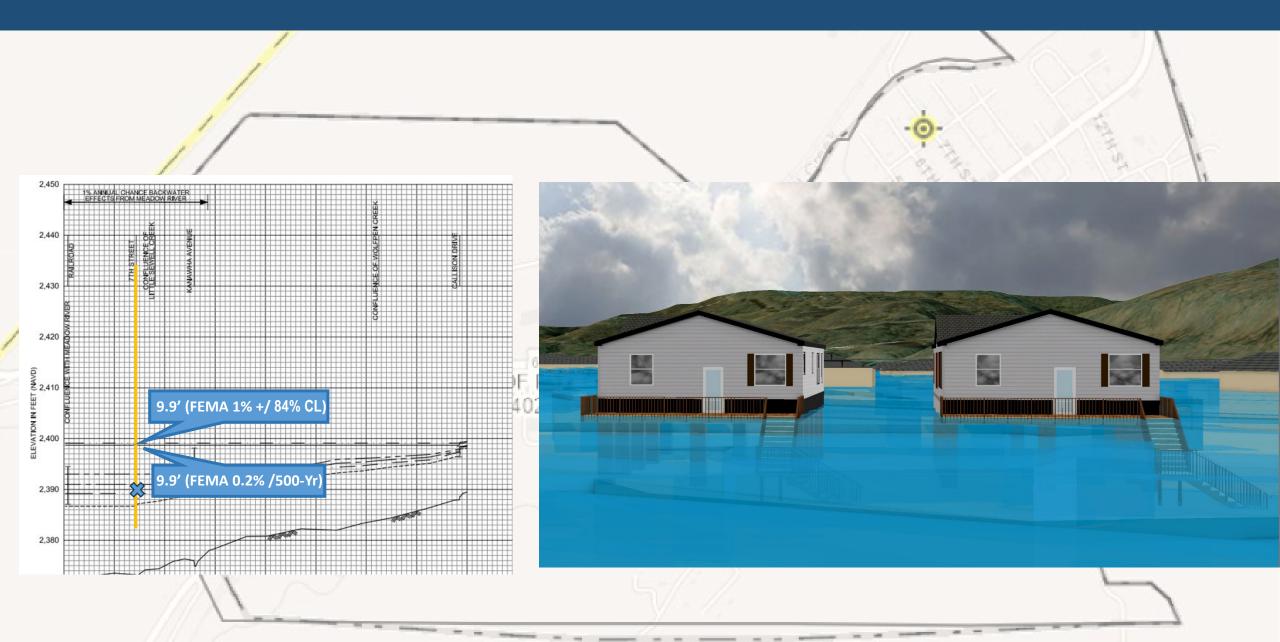
2% Probability of Flood in a year (50-year flood)



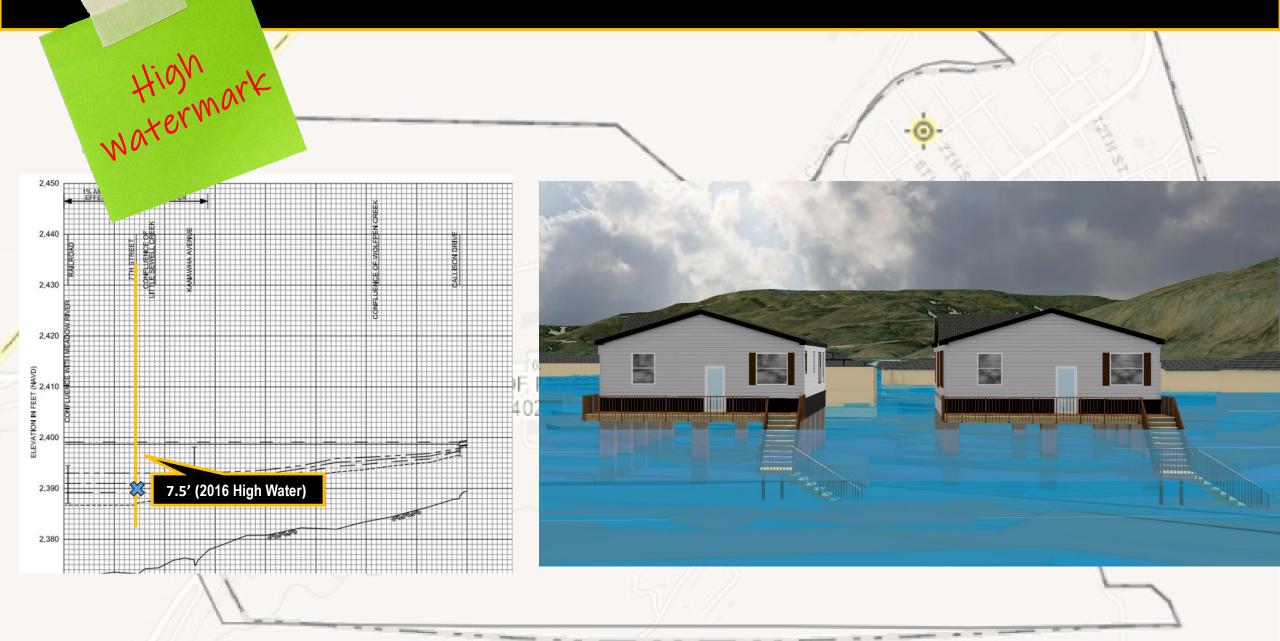
1% Probability of Flood in a year (100-year flood)



0.2% Probability of Flood in a year (500-year flood)



2016 High Watermark



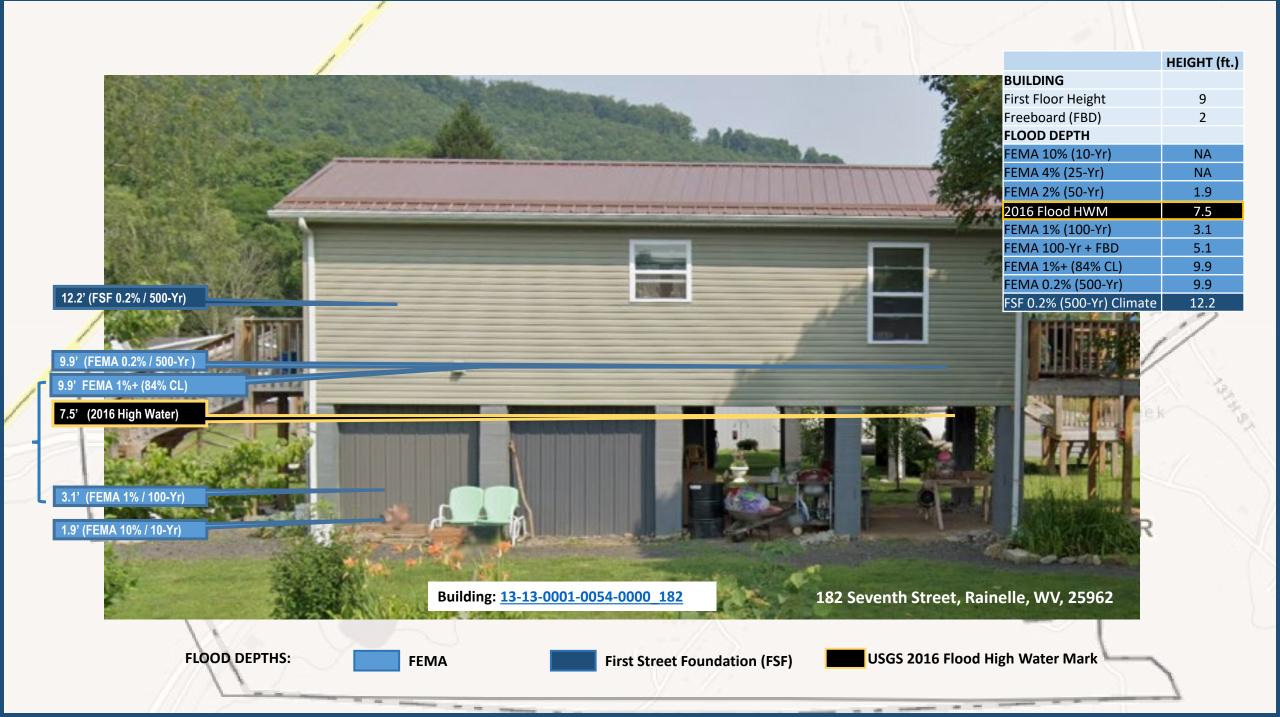










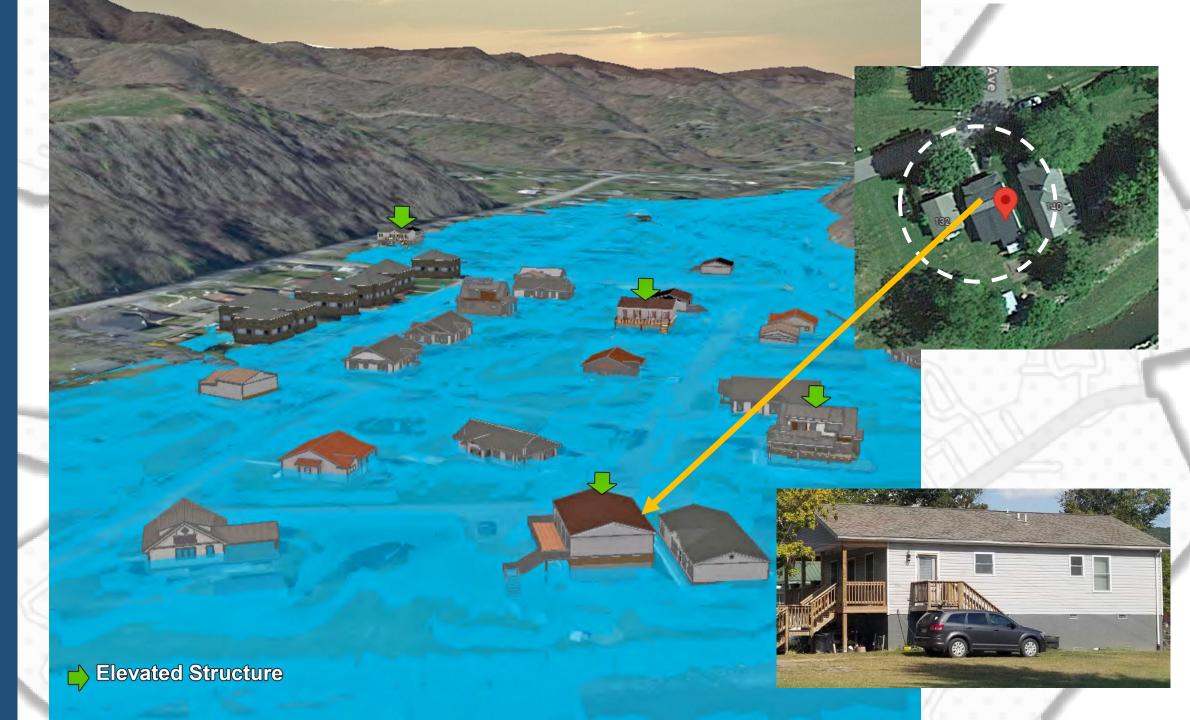




White Sulphur Springs



Building Flood Profile



Building Flood Profile



138 Mill Street, White Sulphur Springs, WV, 24986

13-17-0009-0026-0000_138

10% Probability of Flood in a year (10-year flood)



4% Probability of Flood in a year (25-year flood)



2% Probability of Flood in a year (50-year flood)



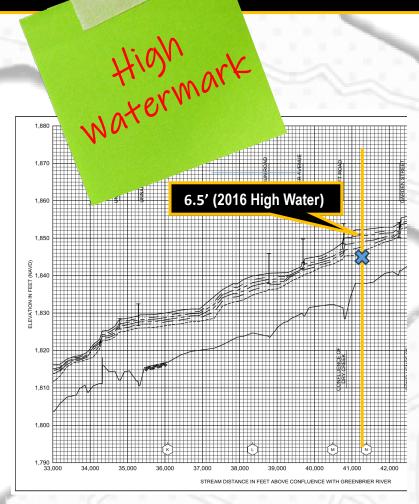
1% Probability of Flood in a year (100-year flood)



0.2% Probability of Flood in a year (500-year flood)



2016 High Watermark

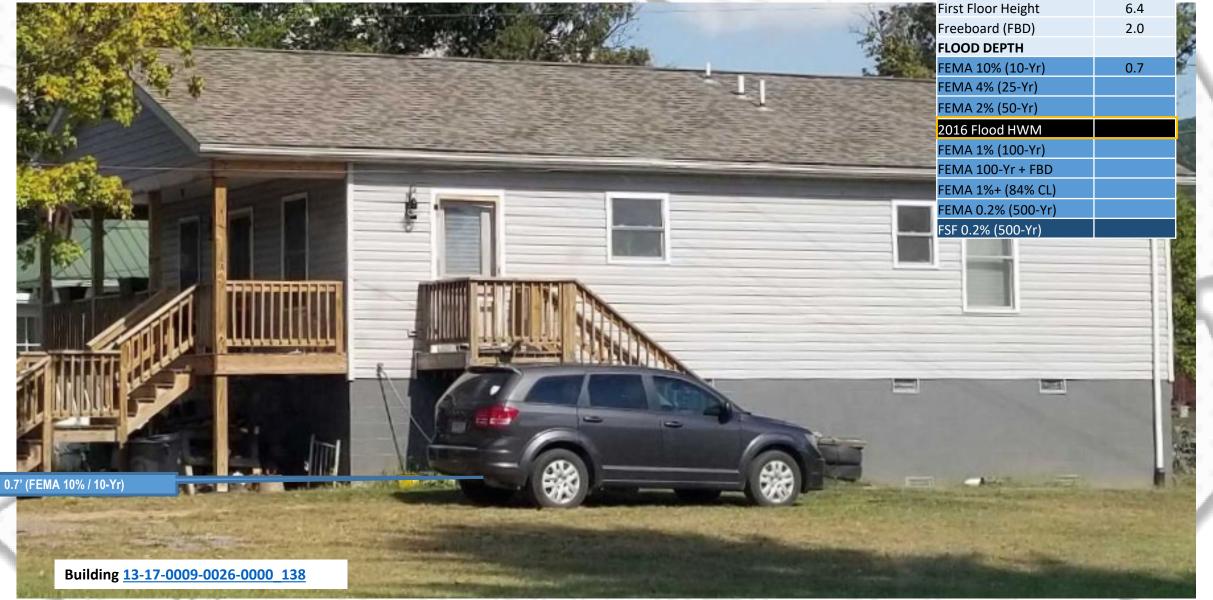


Villa Ave



The Design Flood Elevation (DFE) should be the BFE plus 2 feet of freeboard. The DFE should also be above the high-water marks of the 2016 flood plus freeboard.

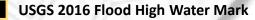
BUILDING



FLOOD DEPTHS:

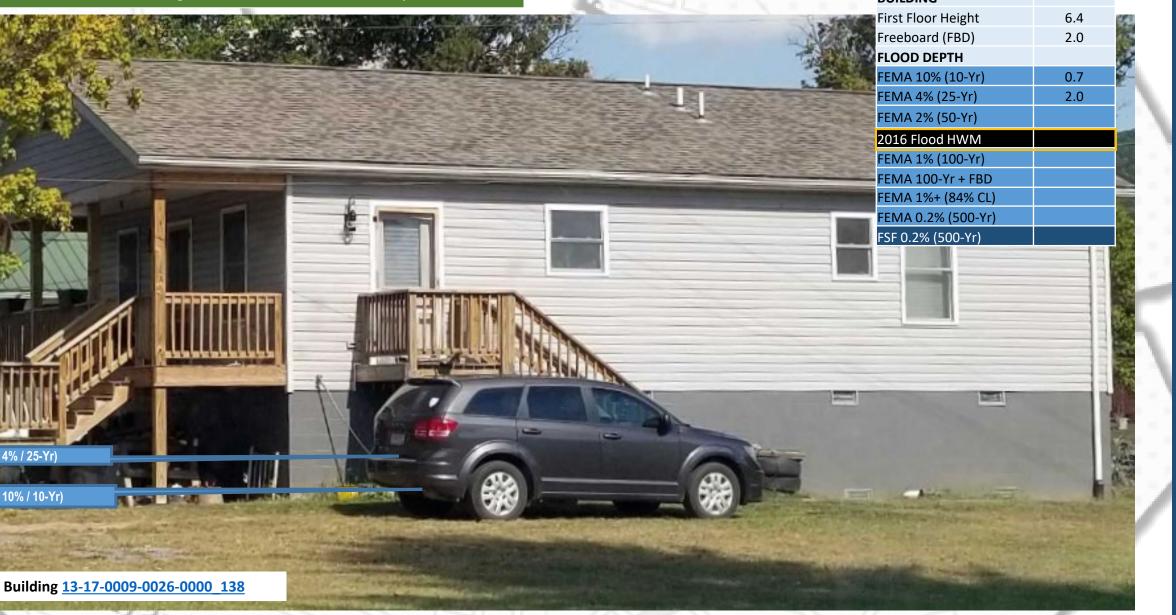
FEMA

First Street Foundation (FSF)



The Design Flood Elevation (DFE) should be the BFE plus 2 feet of freeboard. The DFE should also be above the high-water marks of the 2016 flood plus freeboard.

BUILDING



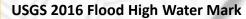
FLOOD DEPTHS:

2.0' (FEMA 4% / 25-Yr)

0.7' (FEMA 10% / 10-Yr)

FEMA

First Street Foundation (FSF)

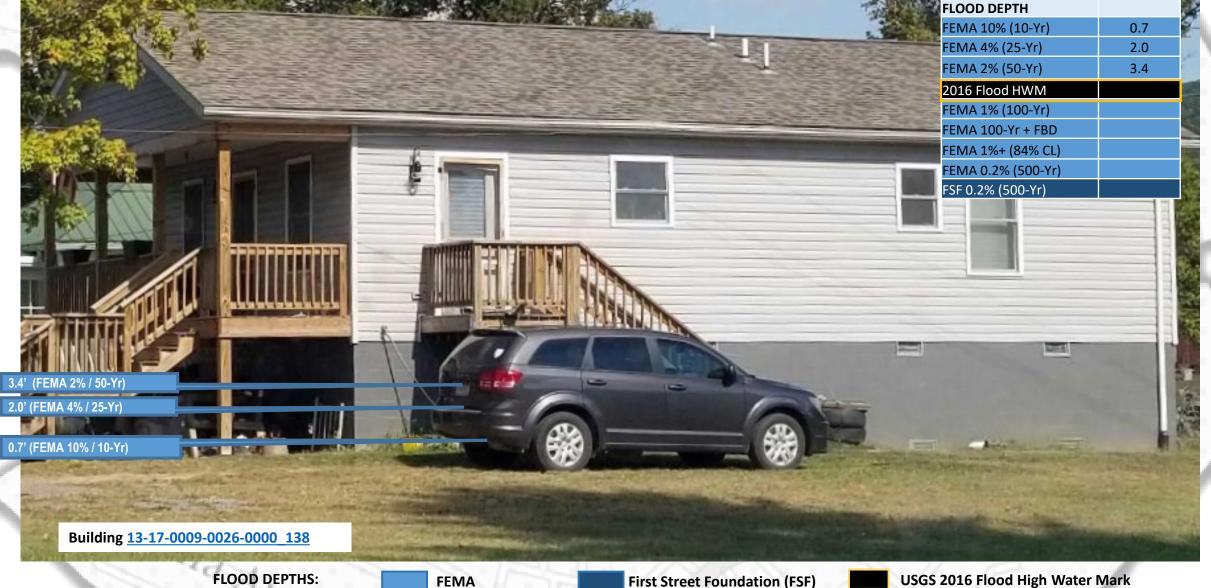


The Design Flood Elevation (DFE) should be the BFE plus 2 feet of freeboard. The DFE should also be above the high-water marks of the 2016 flood plus freeboard.

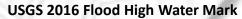
BUILDING

First Floor Height Freeboard (FBD)

HEIGHT (ft.)	
6.4	3
2.0	į.
0.7	P
2.0	
3.4	



First Street Foundation (FSF)



The Design Flood Elevation (DFE) should be the BFE plus 2 feet of freeboard. The DFE should also be above the high-water marks of the 2016 flood plus freeboard.

BUILDING

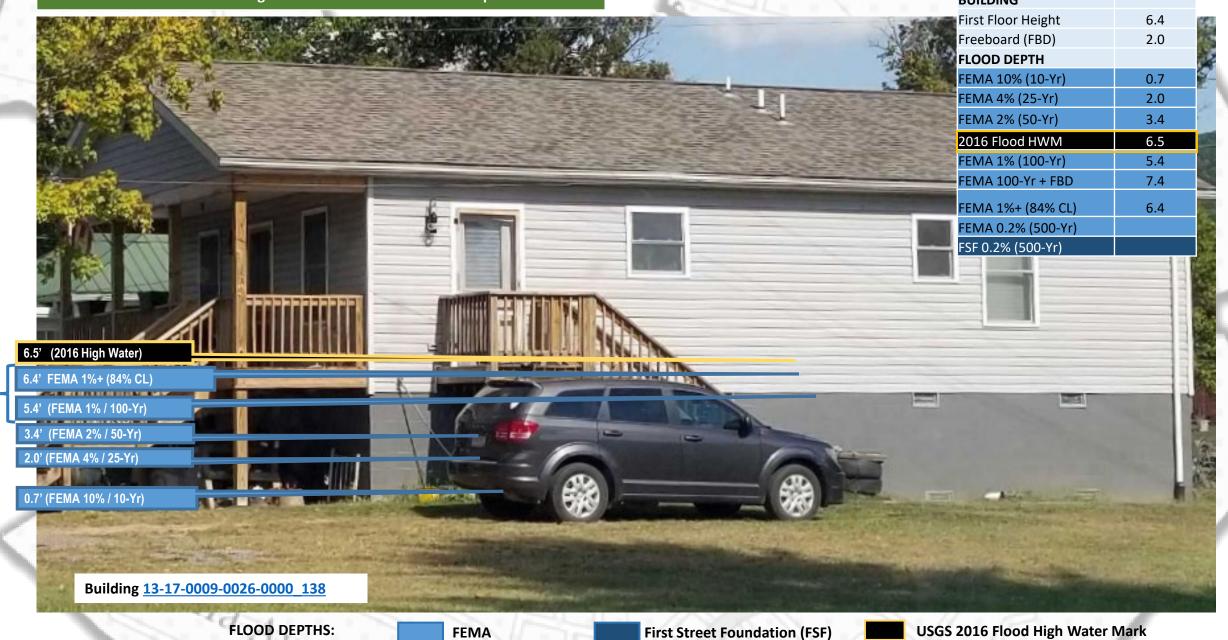
HEIGHT	(ft.)
6.4	

	2016 Flood HWM	3.4	
	FEMA 1% (100-Yr)	5.4	
	FEMA 100-Yr + FBD	7.4	
	FEMA 1%+ (84% CL)	6.4	
	FEMA 0.2% (500-Yr) FSF 0.2% (500-Yr)		
6.4' FEMA 1% + (84% CL) 5.4' (FEMA 1% / 100-Yr) 3.4' (FEMA 2% / 50-Yr) 2.0' (FEMA 4% / 25-Yr) 0.7' (FEMA 10% / 10-Yr)			Sten P ADE
Building <u>13-17-0009-0026-0000_138</u>			

The Design Flood Elevation (DFE) should be the BFE plus 2 feet of freeboard. The DFE should also be above the high-water marks of the 2016 flood plus freeboard.

BUILDING

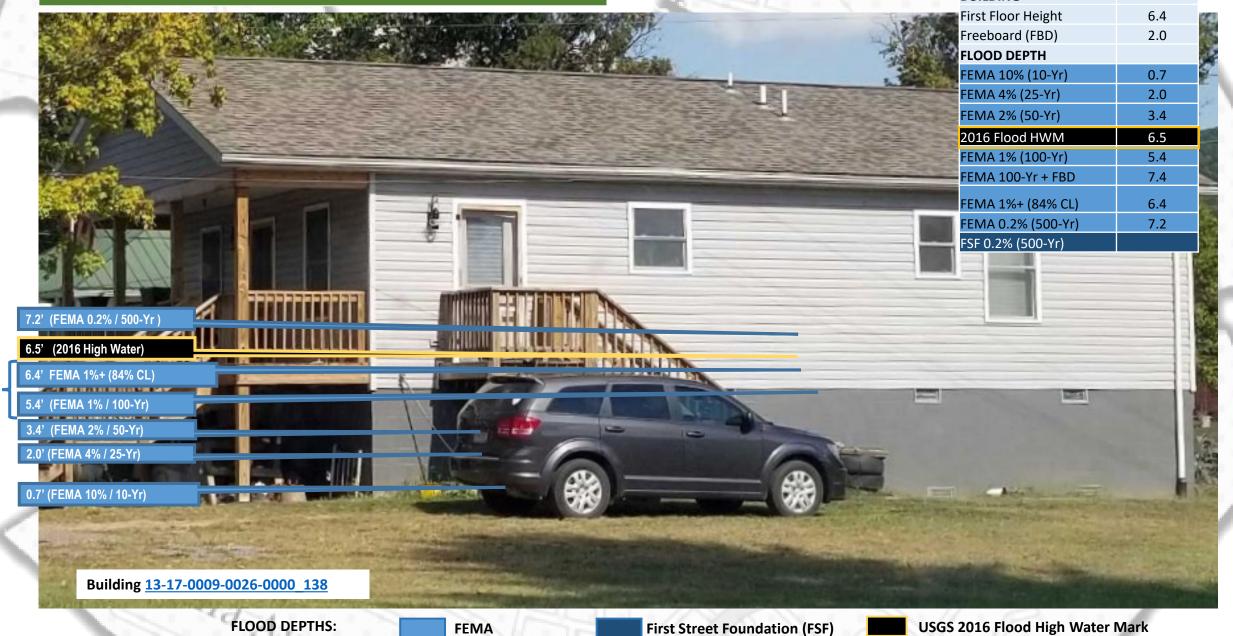
HEIGHT (ft	t.)



The Design Flood Elevation (DFE) should be the BFE plus 2 feet of freeboard. The DFE should also be above the high-water marks of the 2016 flood plus freeboard.

BUILDING

HEIGHT	(ft.)



The Design Flood Elevation (DFE) should be the BFE plus 2 feet of freeboard. The HEIGHT (ft.) DFE should also be above the high-water marks of the 2016 flood plus freeboard. BUILDING **First Floor Height** 6.4 2.0 Freeboard (FBD) FLOOD DEPTH FEMA 10% (10-Yr) 0.7 FEMA 4% (25-Yr) 2.0 FEMA 2% (50-Yr) 3.4 2016 Flood HWM 6.5 FEMA 1% (100-Yr) 5.4 FEMA 100-Yr + FBD 7.4 FEMA 1%+ (84% CL) 6.4 FEMA 0.2% (500-Yr) 7.2 FSF 0.2% (500-Yr) 7.4 7.4' (FSF 0.2% / 500-Yr) 7.2' (FEMA 0.2% / 500-Yr) 6.5' (2016 High Water) 6.4' FEMA 1%+ (84% CL) 5.4' (FEMA 1% / 100-Yr) 3.4' (FEMA 2% / 50-Yr) 2.0' (FEMA 4% / 25-Yr) 0.7' (FEMA 10% / 10-Yr) Building 13-17-0009-0026-0000 138 FLOOD DEPTHS: **USGS 2016 Flood High Water Mark FEMA** First Street Foundation (FSF)

Clendenin

20-02-0006-0044-0000 306

306 Maywood Ave., Clendenin, WV, 25045

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Cobb-Nvi

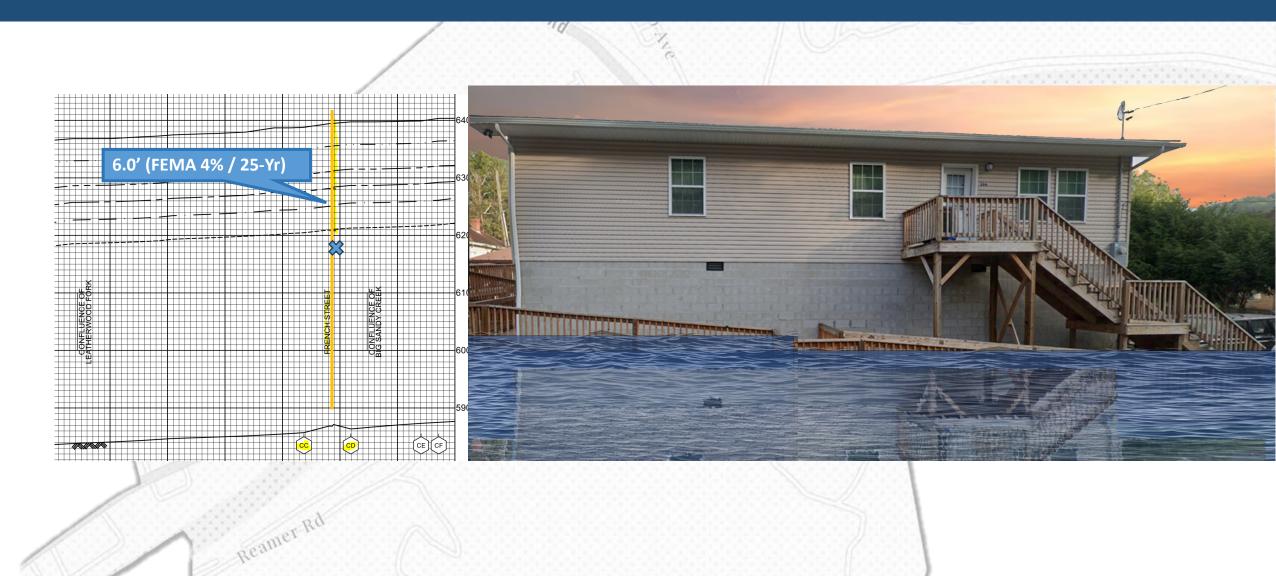
Elk River Rd 1

10% Probability of Flood in a year (10-year flood)

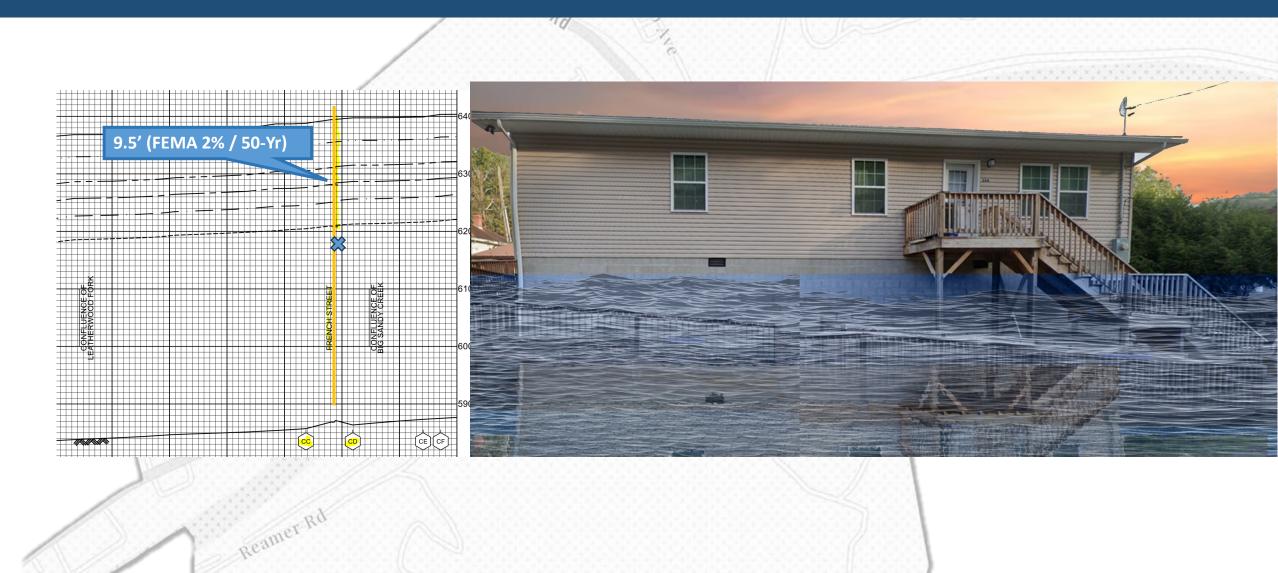




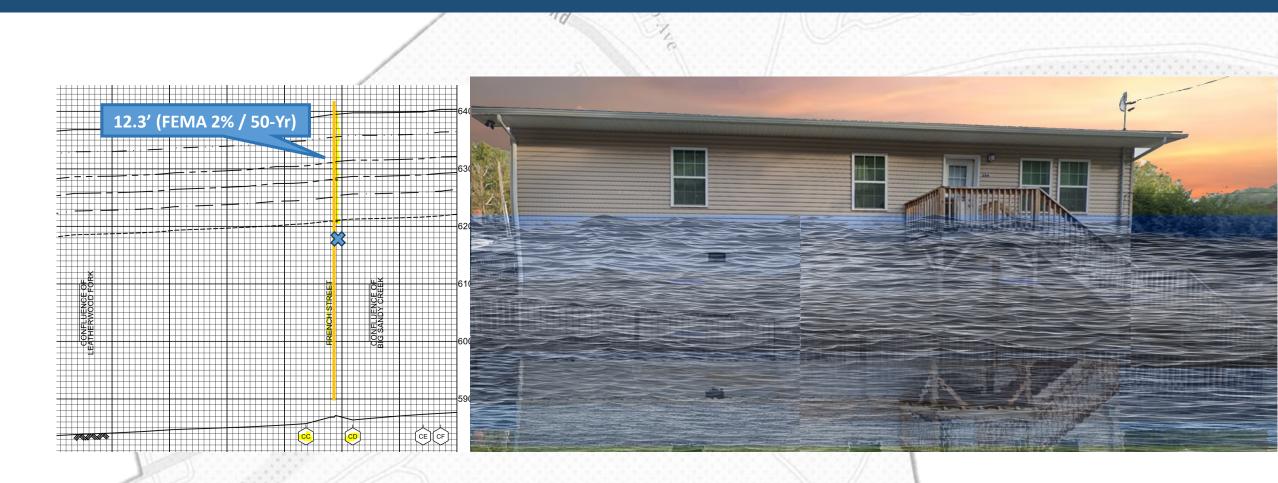
4% Probability of Flood in a year (25-year flood)



2% Probability of Flood in a year (50-year flood)

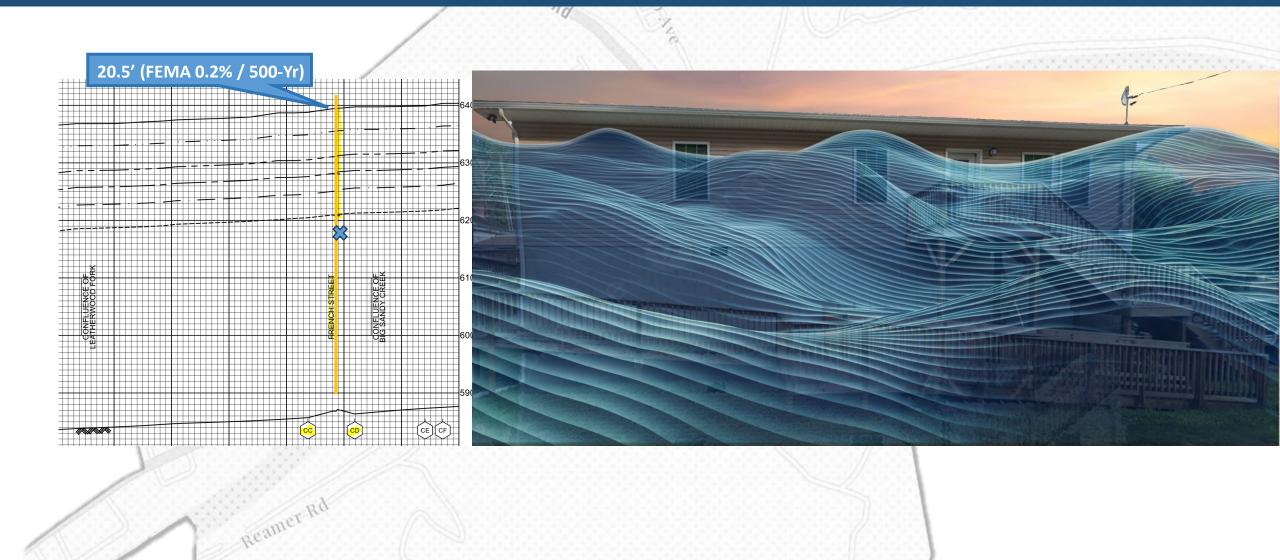


1% Probability of Flood in a year (100-year flood)

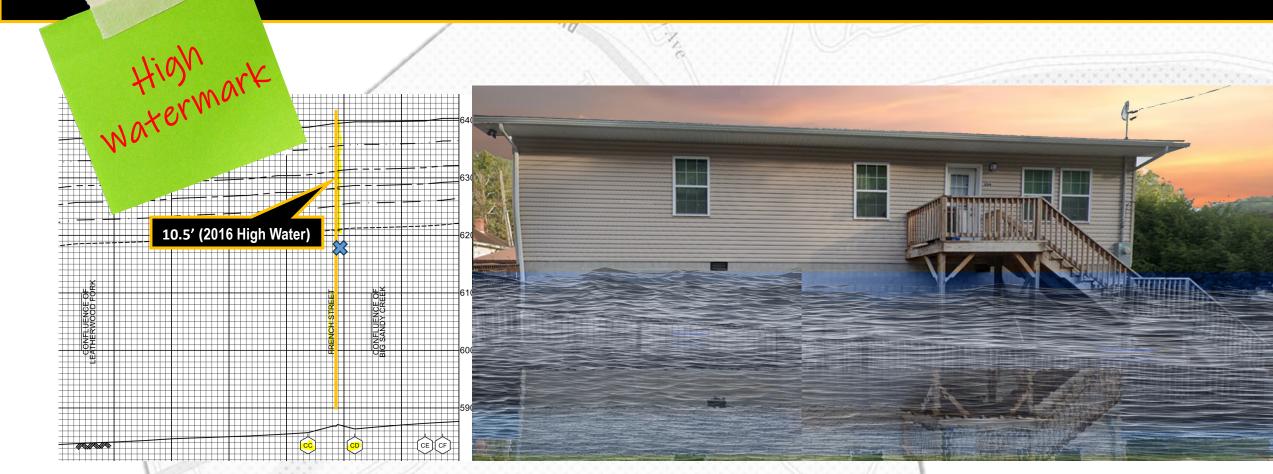


Reamer Rd

0.2% Probability of Flood in a year (500-year flood)



2016 High Watermark





306 Maywood Ave., Clendenin, WV, 25045

	HEIGHT (ft.)
BUILDING	
First Floor Height	12.0
Freeboard (FBD)	2.0
FLOOD DEPTH	2.0
FEMA 10% (10-Yr)	2.0
FEMA 4% (25-Yr)	
FEMA 2% (50-Yr)	
2016 Flood HWM	
FEMA 1% (100-Yr)	
FEMA 100-Yr + FBD	
FEMA 1%+ (84% CL)	
FEMA 0.2% (500-Yr)	
FSF 0.2% (500-Yr)	

2.0' (FEMA 10% / 10-Yr)

Building 20-02-0006-0044-0000_306

6.6

FLOOD DEPTHS:



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Cer Ra

USGS 2016 Flood High Water Mark

306 Maywood Ave., Clendenin, WV, 25045

6.0' (FEMA 4% / 25-Yr)

2.0' (FEMA 10% / 10-Yr)

	HEIGHT (ft.)
BUILDING	
First Floor Height	12.0
Freeboard (FBD)	2.0
FLOOD DEPTH	
FEMA 10% (10-Yr)	2.0
FEMA 4% (25-Yr)	6.0
FEMA 2% (50-Yr)	
2016 Flood HWM	
FEMA 1% (100-Yr)	
FEMA 100-Yr + FBD	
FEMA 1%+ (84% CL)	
FEMA 0.2% (500-Yr)	
FSF 0.2% (500-Yr)	

FLOOD DEPTHS:

Building 20-02-0006-0044-0000_306

20



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USGS 2016 Flood High Water Mark

	V, 25045	Ra		BUILDING	
306 Maywood Ave., Clendenin, W	V, 25045	Red		First Floor Height	12.0
				Freeboard (FBD)	2.0
				FLOOD DEPTH	
				FEMA 10% (10-Yr)	2.0
R	NAME AND ADDRESS OF TAXABLE PARTY.			FEMA 4% (25-Yr)	6.0
			Contraction of the second second	FEMA 2% (50-Yr)	9.5
The second se		and the second se		2016 Flood HWM	
				FEMA 1% (100-Yr)	-
			300	FEMA 100-Yr + FBD	
			IL TRAPPERTURNED	FEMA 1%+ (84% CL)	
				FEMA 0.2% (500-Yr)	
				FSF 0.2% (500-Yr)	2
(FEMA 2% / 50-Yr) (FEMA 4% / 25-Yr) FEMA 10% / 10-Yr)					
Building <u>20-02-0006-0044-0000 30</u>	<u>D6</u>				
FLOOD DEP	THS: FEMA	First Street I	Foundation (FSF)	USGS 2016 Flood High Water Mark	

HEIGHT (ft.)

	25045 ³ er _{Ra}	Comb		BUILDING	
306 Maywood Ave., Clendenin, WV, 2	25045 Rd	03		First Floor Height	12.0
				Freeboard (FBD)	2.0
				FLOOD DEPTH	
				FEMA 10% (10-Yr)	2.0
3	DESCRIPTION OF THE OWNER OF THE OWNER			FEMA 4% (25-Yr)	6.0
				FEMA 2% (50-Yr)	9.5
				2016 Flood HWM	10.5
				FEMA 1% (100-Yr)	_
			300	FEMA 100-Yr + FBD	
			INTERPRETER FOR D	FEMA 1%+ (84% CL)	
				FEMA 0.2% (500-Yr)	
				FSF 0.2% (500-Yr)	
		A REAL PROPERTY AND A REAL			
(2016 High Water)	Contraction of the second states and	Zies to be produced subsidiation.			
FEMA 2% / 50-Yr)			A Start IN / A		N & Rox
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FEMA 4% / 25-Yr)		Thread - x as a state		Constant Call	
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and the second s	Construction of the Workshop of the State	CARLEN CLUB ARE			
FEMA 10% / 10-Yr)			A REPORT OF THE PARTY OF THE PA		
			A REAL PROPERTY AND A REAL PROPERTY AND A	THE REAL PROPERTY AND INCOMENTATION OF	STATE OF STATE
					A CAR
Building <u>20-02-0006-0044-0000_306</u>			The Para State of the Para	A second second	Sec. Sec.
1 III)	
			2002204003 <u>00</u>		
FLOOD DEPTHS	S: FEMA	First Street For	undation (ESE)	USGS 2016 Flood High Water Mark	

HEIGHT (ft.)

DFE should also be	e above the high-water marks of t	he 2016 flood plus freebo	ard.			HEIGHT (ft.)
		2	Colum		BUILDING	
306 Maywood Av	ve., Clendenin, WV, 25045	"Cer Ra	3		First Floor Height	t 12.0
					Freeboard (FBD)	2.0
					FLOOD DEPTH	
					FEMA 10% (10-Y)	-
SR .		A POINT OF THE OWNER OF THE OWNER			FEMA 4% (25-Yr)	6.0
					FEMA 2% (50-Yr)	
			Contraction of the local division of the loc	and the second se	2016 Flood HWN	
					FEMA 1% (100-Y	r) 12.3
				_305	FEMA 100-Yr + FI	
16.5' FEMA1%+ (84% CL)					FEMA 1%+ (84%	-
					FEMA 0.2% (500-	
					FSF 0.2% (500-Yr)
12.3' (FEMA 1% / 100-Yr)				COLUMN STATE		
The second						
A A A A A A A A A A A A A A A A A A A						
10.5' (2016 High Water)					No. I NUMBER	
9.5' (FEMA 2% / 50-Yr)						
		TRANSPORT PURC				
6.0' (FEMA 4% / 25-Yr)						
	FERENCES AND DUEDED				No. of Concession, Name	
					REAL FOR BARREN PLANEFE	THE PERSON NAMES
	and the second s	and the second second second		THE REAL PROPERTY OF		
2.0' (FEMA 10% / 10-Yr)				a state of the second s	Streetwart and a state of the	
			All and the second	Sold and the second second	A CONTRACTOR OF A CONTRACT OF A CONTRACT. A CONTRACT OF A CONTRACT. A CONTRACT OF A CO	AND DISCONTRACTOR OF
Building 20-02-	0006-0044-0000_306			And the second second	the second second second	
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	FLOOD DEPTHS:	FERAN	F illing			vr Mark
		FEMA	First Stree	et Foundation (FSF)	USGS 2016 Flood High Wate	

306 Maywood Ave., Clendenin, WV, 25045

20.5' (FEMA 0.2% / 500-Yr)

16.5' FEMA1%+ (84% CL)

12.3' (FEMA 1% / 100-Yr)

10.5' (2016 High Water) 9.5' (FEMA 2% / 50-Yr)

6.0' (FEMA 4% / 25-Yr)

2.0' (FEMA 10% / 10-Yr)

	HEIGHT (ft.)
BUILDING	
First Floor Height	12.0
Freeboard (FBD)	2.0
FLOOD DEPTH	
FEMA 10% (10-Yr)	2.0
FEMA 4% (25-Yr)	6.0
FEMA 2% (50-Yr)	9.5
2016 Flood HWM	10.5
FEMA 1% (100-Yr)	12.3
FEMA 100-Yr + FBD	14.3
FEMA 1%+ (84% CL)	16.5
FEMA 0.2% (500-Yr)	20.5
FSF 0.2% (500-Yr)	

FLOOD DEPTHS:

Building 20-02-0006-0044-0000_306

20



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USGS 2016 Flood High Water Mark

306 Maywood Ave., Clendenin, WV, 25045

000 Ra Freeboard (FBD) 2.0 FLOOD DEPTH 2.0 FEMA 10% (10-Yr) 24.6' (FSF 0.2% / 500-Yr) FEMA 4% (25-Yr) 6.0 20.5' (FEMA 0.2% / 500-Yr) FEMA 2% (50-Yr) 9.5 2016 Flood HWM 10.5 FEMA 1% (100-Yr) 12.3 FEMA 100-Yr + FBD 14.3 FEMA 1%+ (84% CL) 16.5 16.5' FEMA1%+ (84% CL) FEMA 0.2% (500-Yr) 20.5 FSF 0.2% (500-Yr) 24.6 12.3' (FEMA 1% / 100-Yr) 10.5' (2016 High Water) 9.5' (FEMA 2% / 50-Yr) 6.0' (FEMA 4% / 25-Yr) 2.0' (FEMA 10% / 10-Yr) Building 20-02-0006-0044-0000 306 FLOOD DEPTHS: **USGS 2016 Flood High Water Mark FEMA** First Street Foundation (FSF)

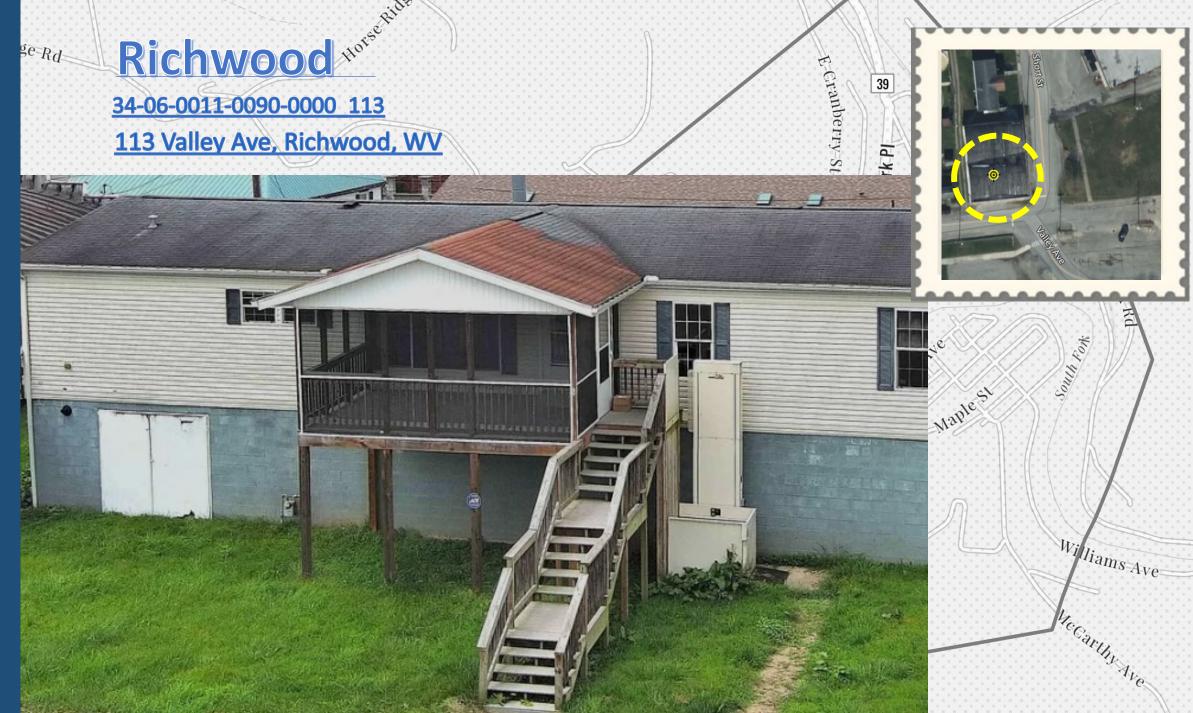
HEIGHT (ft.)

12.0

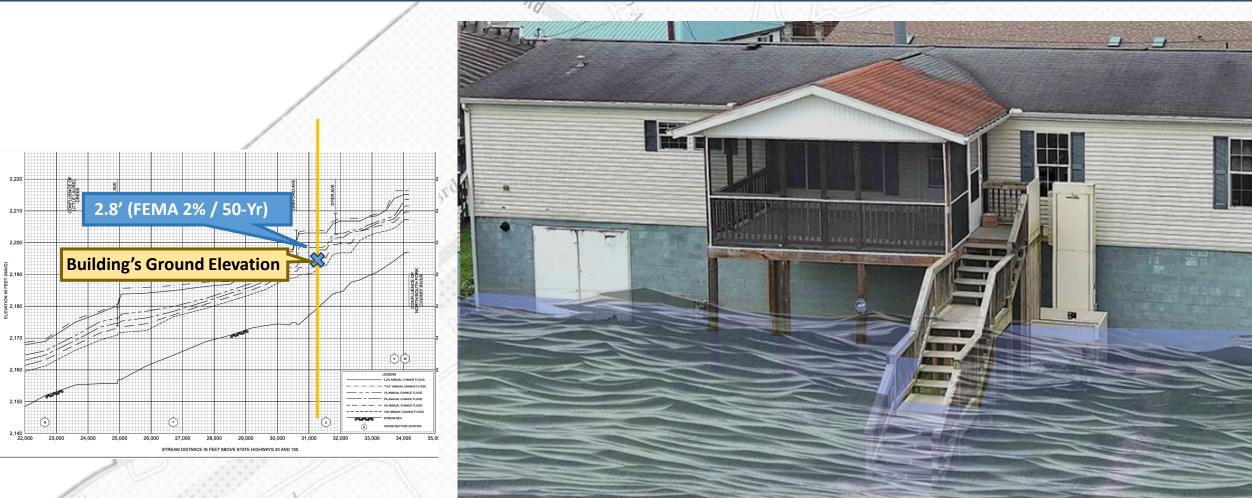
BUILDING

First Floor Height





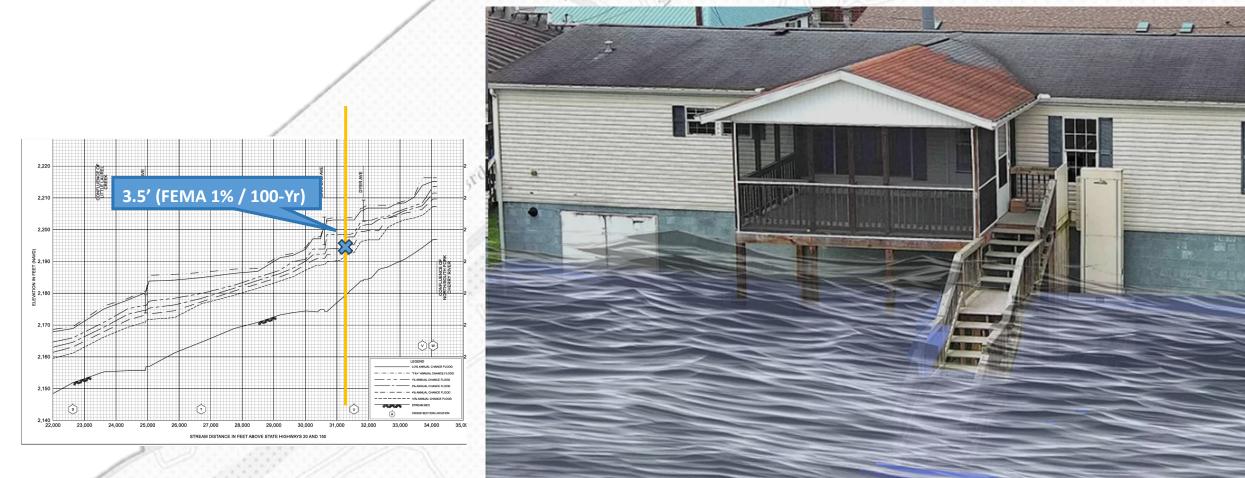
2% Probability of Flood in a year (50-year flood)





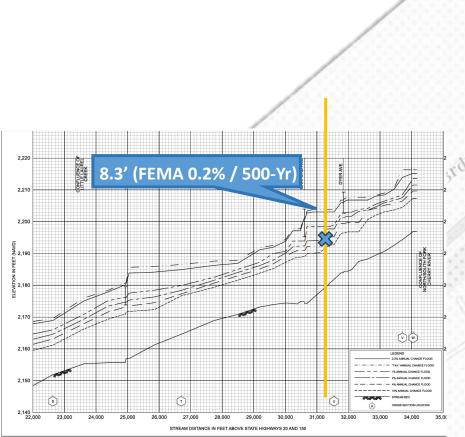
1% Probability of Flood in a year (100-year flood)

10





0.2% Probability of Flood in a year (500-year flood)

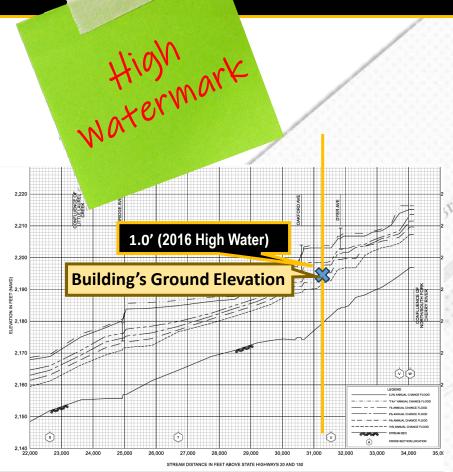






2016 High Watermark

10







113 Valley Ave, Richwood, WV



113 Valley Ave, Richwood, WV



113 Valley Ave, Richwood, WV



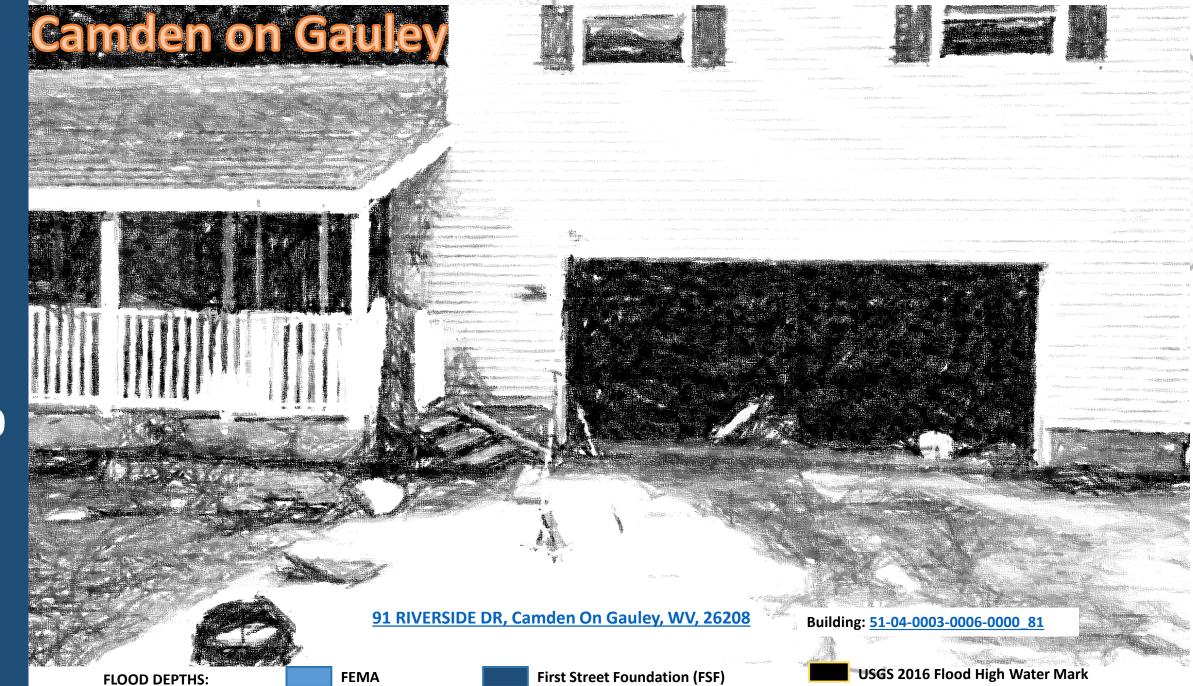
113 Valley Ave, Richwood, WV



113 Valley Ave, Richwood, WV





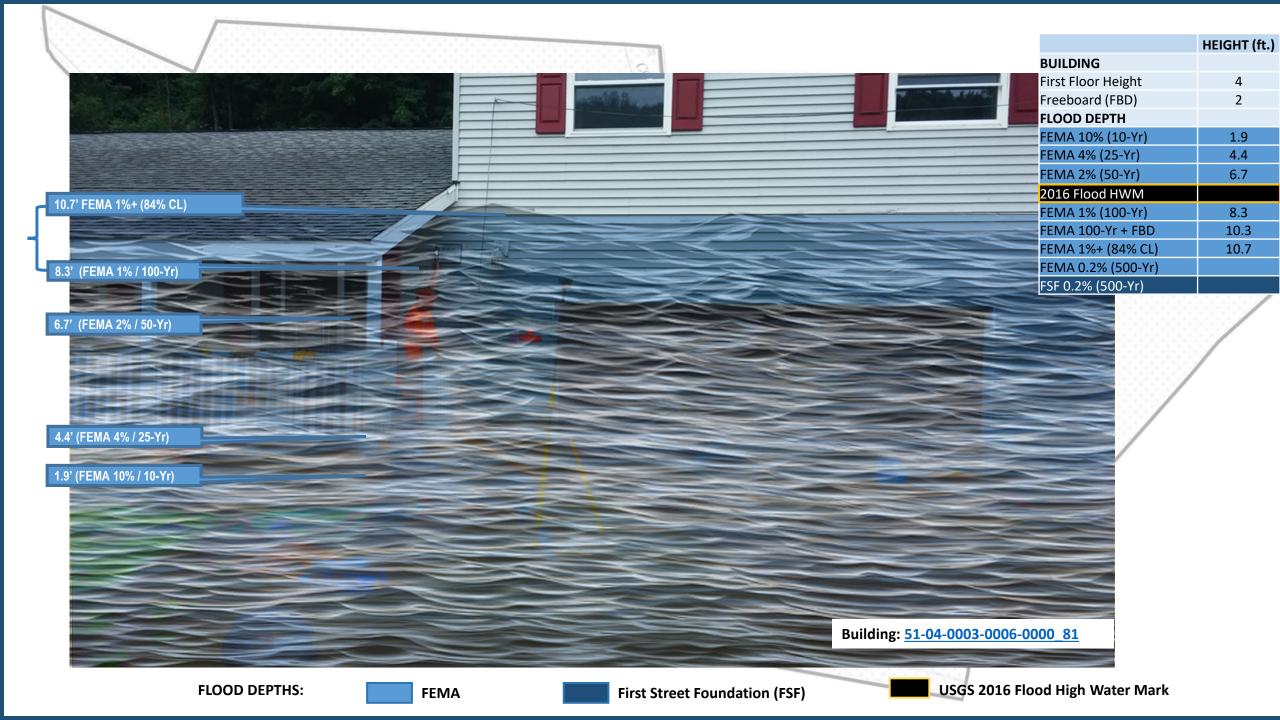


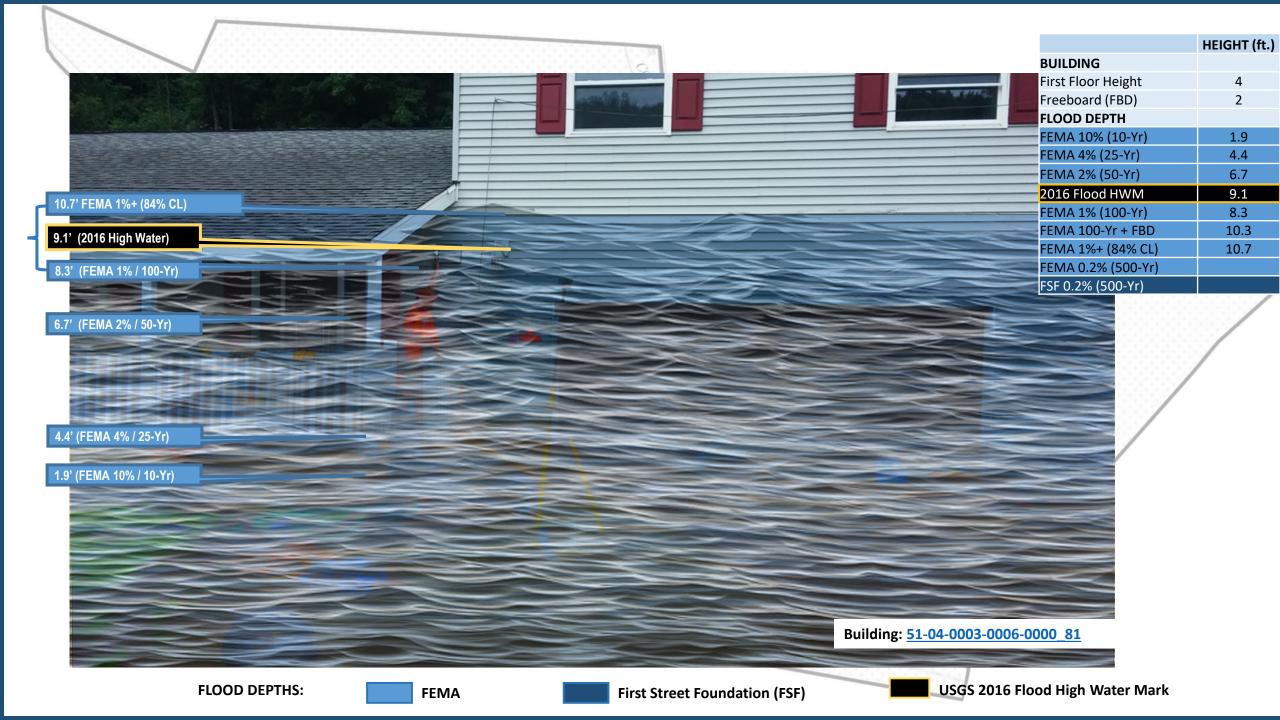


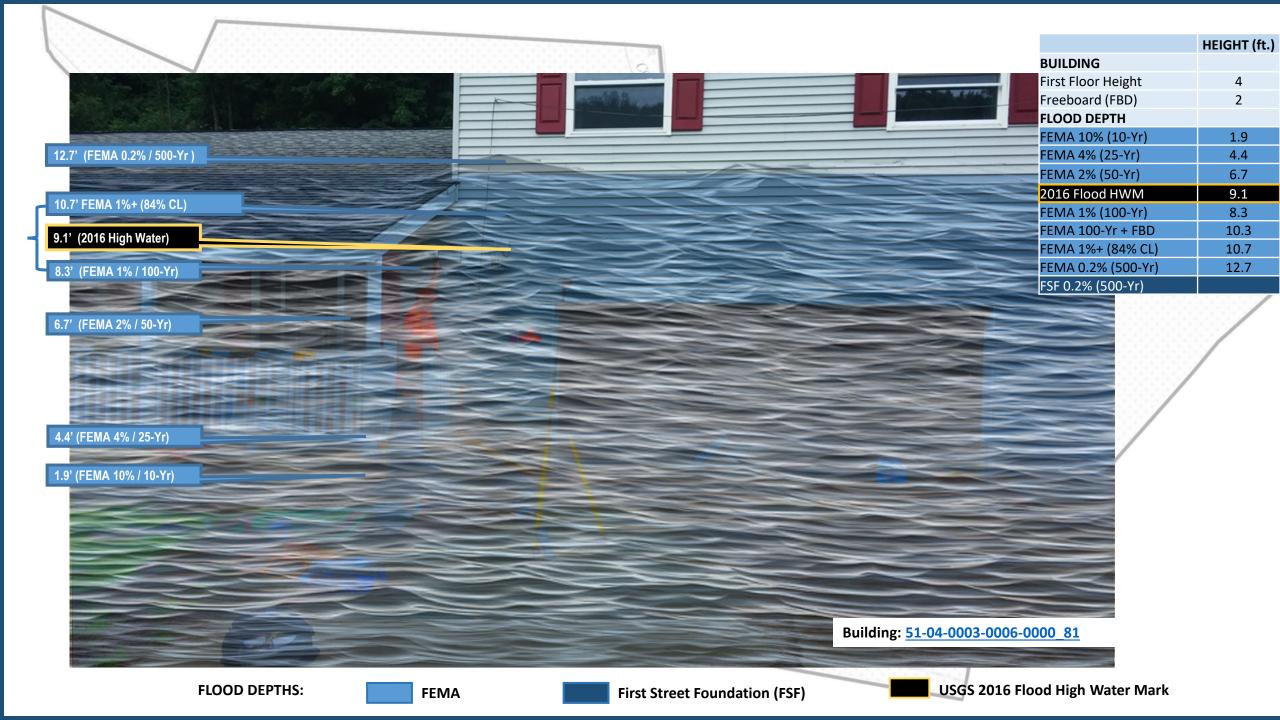


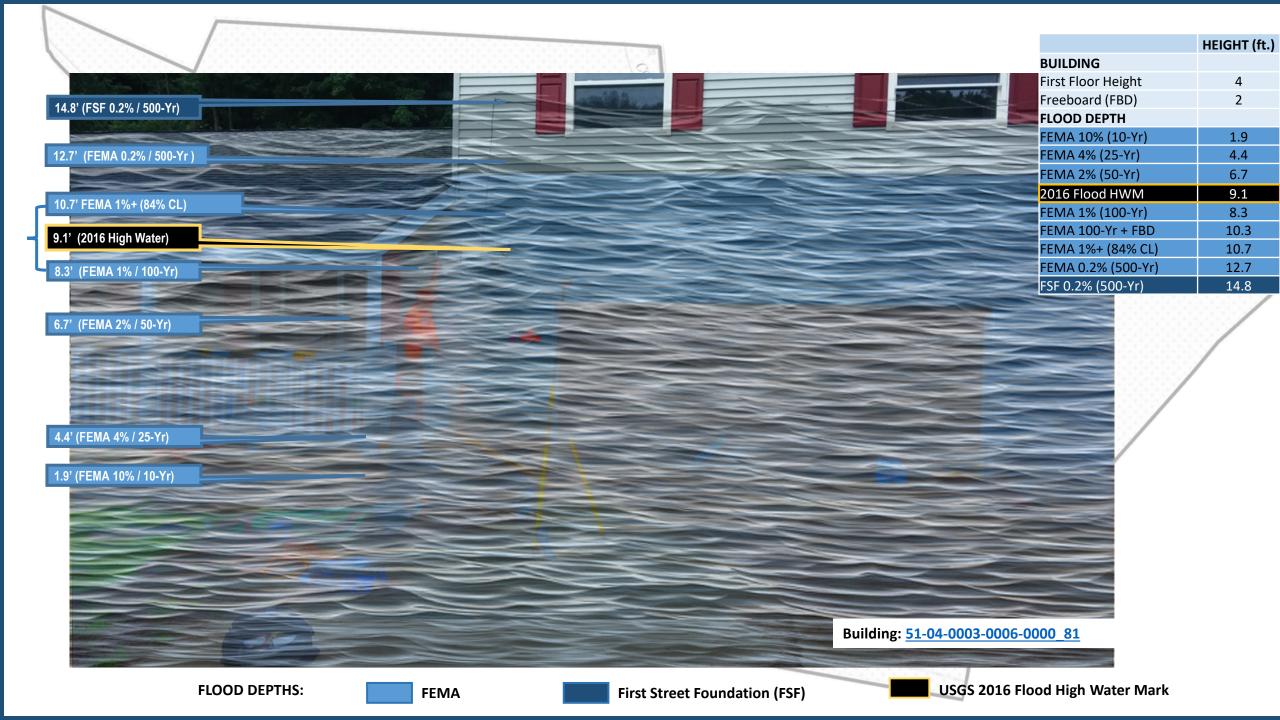








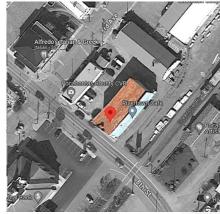




Marlinton

Building: <u>38-08-0003-0023-0000</u>

1900 Commercial Structure



309 8th St, Marlinton, WV, 24954



Ewoodrow

WEST UNION

C.J.RICH

C.J. Richardson

Ideally, the Design Flood Elevation (DFE) should be the BFE plus 2 feet of freeboard. The DFE should also be above the high-water marks of the 1985 flood plus freeboard.

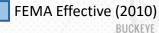
CLAWSON

Flood Intervals	Height (ft.)	Source
FEMA 10% / 10-Yr	0.4	Flood Profile (Effective 2010)
FEMA 2% / 50-yr	2.7	Flood Profile (Effective 2010)
FEMA 1% / 100-yr	3.6	Flood Profile (Effective 2010)
FEMA 100-yr + 2.0 Ft. Freeboard (DFE)	5.6	Design flood elevation (DFE)
High Water Mark (1985 Flood)	7.0	Picture
FEMA Draft NFHL 100-yr	4.8	WV Flood Tool (Draft 2023)
FEMA 500-yr	8.8	WV Flood Tool (Draft 2023)
FSF 500-yr	9.4	FSF Flood Depth (2022)



1985 Flood High Water Mark

FLOOD DEPTHS:



RROWNSBURG

Assessing the Percentage of Inundated Area in Different Flood Intervals



FEMA 10% Annual Chance (10-year)

White Sulphur Springs, WV



FEMA 4% Annual Chance (25-year)

White Sulphur Springs, WV

0.1 ft. FLOOD DEPTH 29 ft. Dľ Residential **Non-Residential** 17% of White Sulphur Springs is in the 4% Annual Flood Chance 71% probability of flooding at least once over 30 years

FEMA 2% Annual Chance (50-year)

White Sulphur Springs, WV

cee 0.1 ft. FLOOD DEPTH 30 ft. DY Residential **Non-Residential** 20% of White Sulphur Springs is in the 2% Annual Flood Chance 45% probability of flooding at least once over 30 years

FEMA 1% Annual Chance (100-year)

White Sulphur Springs, WV

cier 0.1 ft. FLOOD DEPTH 35 ft. D. Residential **Non-Residential** 22% of White Sulphur Springs is in the 1% Annual Flood Chance 26% probability of flooding at least once over 30 years

FEMA 1% +Annual Chance (100-year) White Sulphur Springs, WV



FEMA 0.2% Annual Chance (500-year) White Sulphur Springs, WV



18% of White Sulphur Springs is in the 0.2% Annual Flood Chance

Rainelle



FEMA 10% Annual Chance (10-year)



FEMA 4% Annual Chance (25-year)



FEMA 2% Annual Chance (50-year)



FEMA 1% Annual Chance (100-year)



FEMA 1%+ Annual Chance (100-year)



FEMA 0.2% Annual Chance (100-year)



Clendenin



FEMA 10% Annual Chance (10-year)

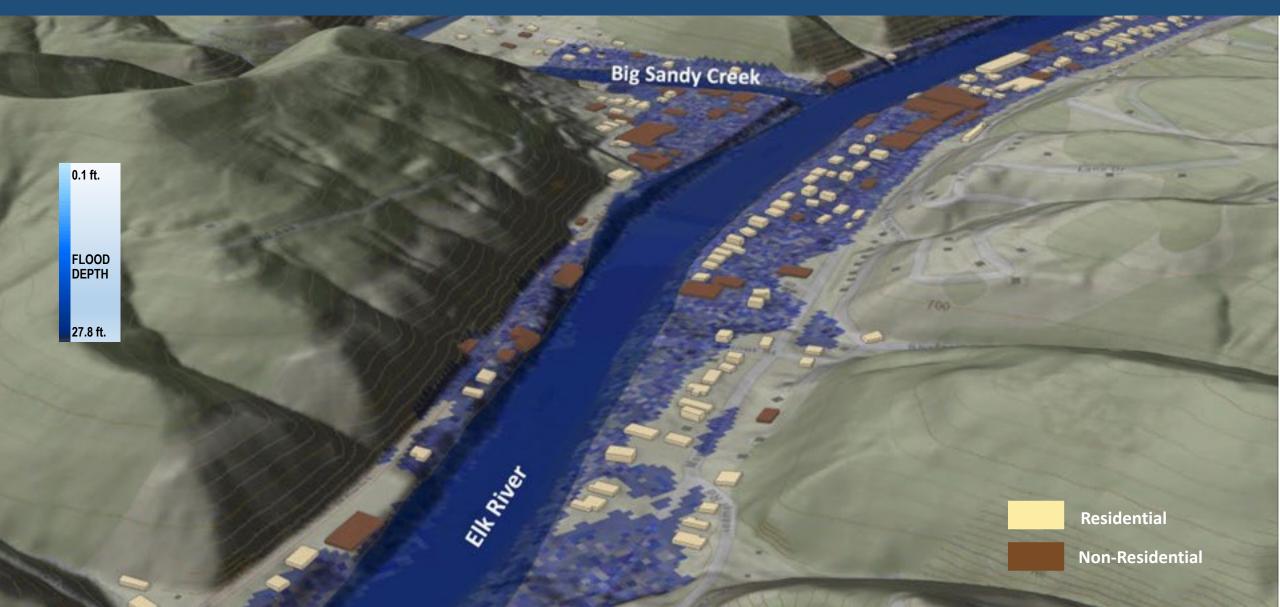
Clendenin, WV



13.4% of Clendenin is in the 10% Annual Flood Chance

FEMA 4% Annual Chance (25-year)

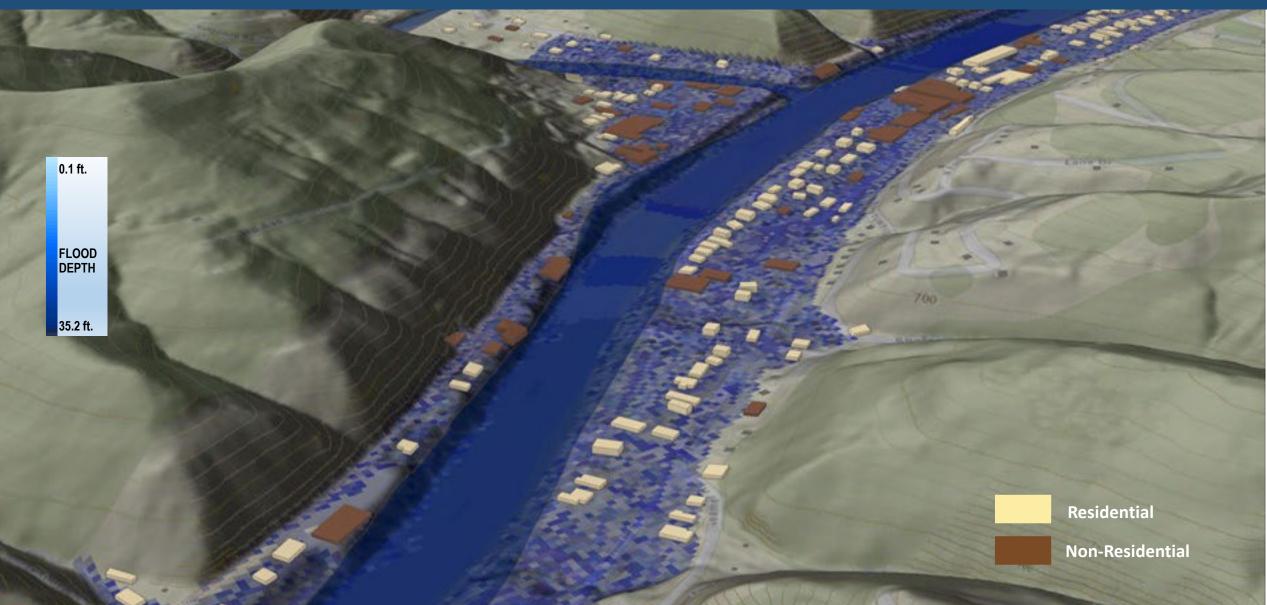
Clendenin, WV



19% of Clendenin is in the 4% Annual Flood Chance

FEMA 2% Annual Chance (50-year)

Clendenin, WV



22.5% of Clendenin is in the 2% Annual Flood Chance

FEMA 1% Annual Chance (100-year)

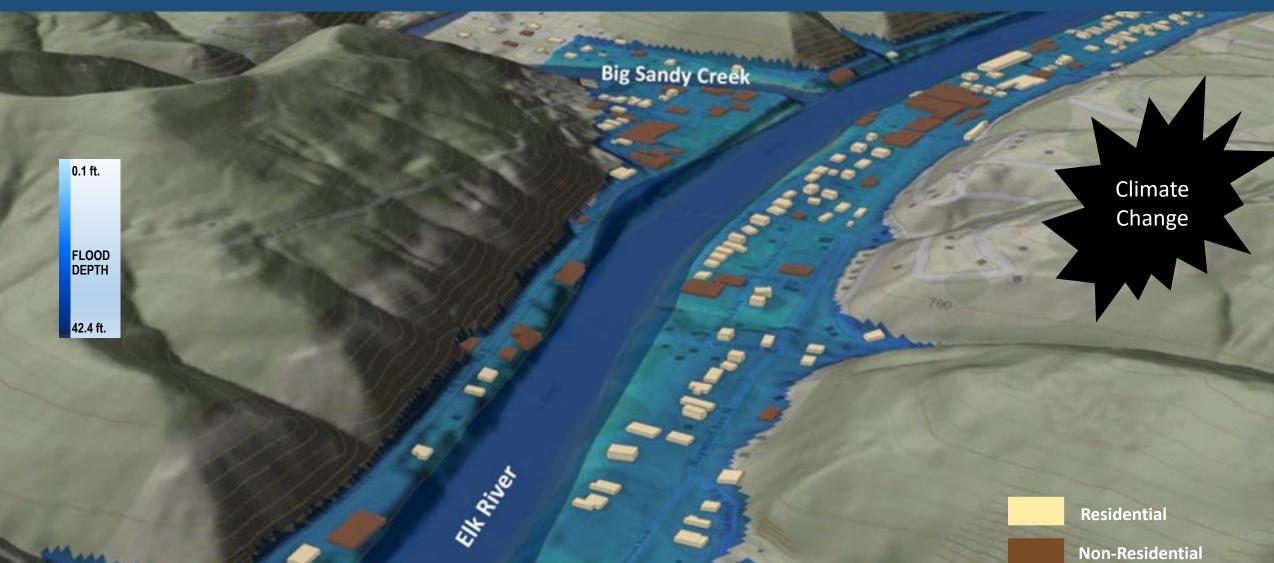
Clendenin, WV

Big Sandy Creek Lana Dr 0.1 ft. FLOOD DEPTH 38.1 ft. Ell ginet Residential **Non-Residential**

23.5% of Clendenin is in the 1% Annual Flood Chance

FEMA 1%+ Annual Chance (100-year)

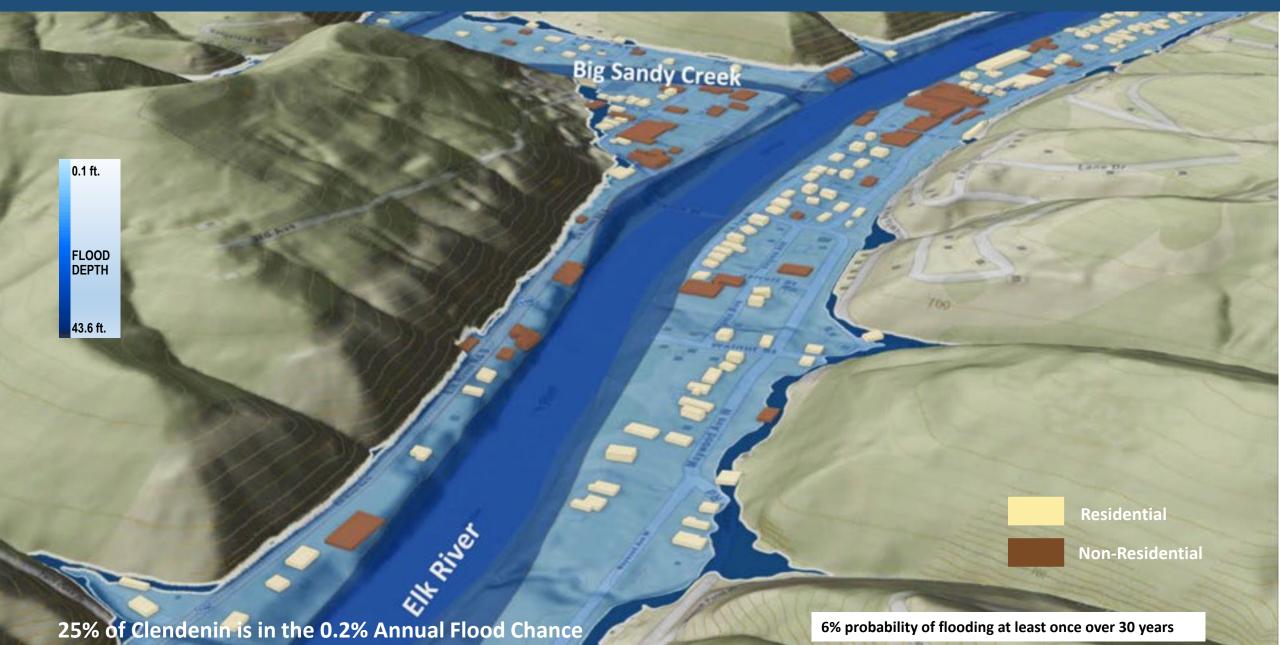
Clendenin, WV



23.5% of Clendenin is in the 1%+ Annual Flood Chance

FEMA 0.2% Annual Chance (500-year)

Clendenin, WV



Richwood



FEMA 10% Annual Chance (10-year)

perry Rive!

Richwood, WV

Residential

Non-Residential

7% of Richwood is in the 10% Annual Flood Chance

0.1 ft.

FLOOD DEPTH

11.8 ft.

FEMA 4% Annual Chance (25-year)

Cherry River

Richwood, WV

Residential

Non-Residential

11% of Richwood is in the 4% Annual Flood Chance

0.1 ft.

FLOOD DEPTH

14.7 ft.

FEMA 2% Annual Chance (50-year)

Cherry River

Richwood, WV

Residential

Non-Residential

16% of Richwood is in the 2% Annual Flood Chance

0.1 ft.

FLOOD DEPTH

17.3 ft.

FEMA 1% Annual Chance (100-year)

Cherry River

Richwood, WV

Residential

Non-Residential

18% of Richwood is in the 1% Annual Flood Chance

0.1 ft.

FLOOD DEPTH

17.9 ft.

FEMA 1%+ Annual Chance (100-year)

Cherry River

Richwood, WV

Climate Change

Residential

Non-Residential

22% of Richwood is in the 1%+ Annual Flood Chance

0.1 ft.

FLOOD DEPTH

26.7 ft.

FEMA 0.2% Annual Chance (500-year)

Cherry River

Richwood, WV

Residential

Non-Residential

22% of Richwood is in the 0.2% Annual Flood Chance

8-7.

0.1 ft.

FLOOD DEPTH

28.6 ft.

Camden-on-Gauley



FEMA 10% Annual Chance (10-year)

Gauley River

0.1 ft.

FLOOD DEPTH

22.1 ft.

ter

Camden-on-Gauley, WV

Residential

Non-Residential

10% of Camden is in the 10% Annual Flood Chance

96% probability of flooding at least once over 30 years

FEMA 4% Annual Chance (25-year)

Gauley River

wall of Parcella

0.1 ft.

FLOOD DEPTH

25.3 ft.

Camden-on-Gauley, WV

Residential

Non-Residential

12% of Camden is in the 4% Annual Flood Chance

71% probability of flooding at least once over 30 years

FEMA 2% Annual Chance (50-year)

Gauley River

No. of Lot 2 he was here

0.1 ft.

FLOOD DEPTH

27.3 ft.

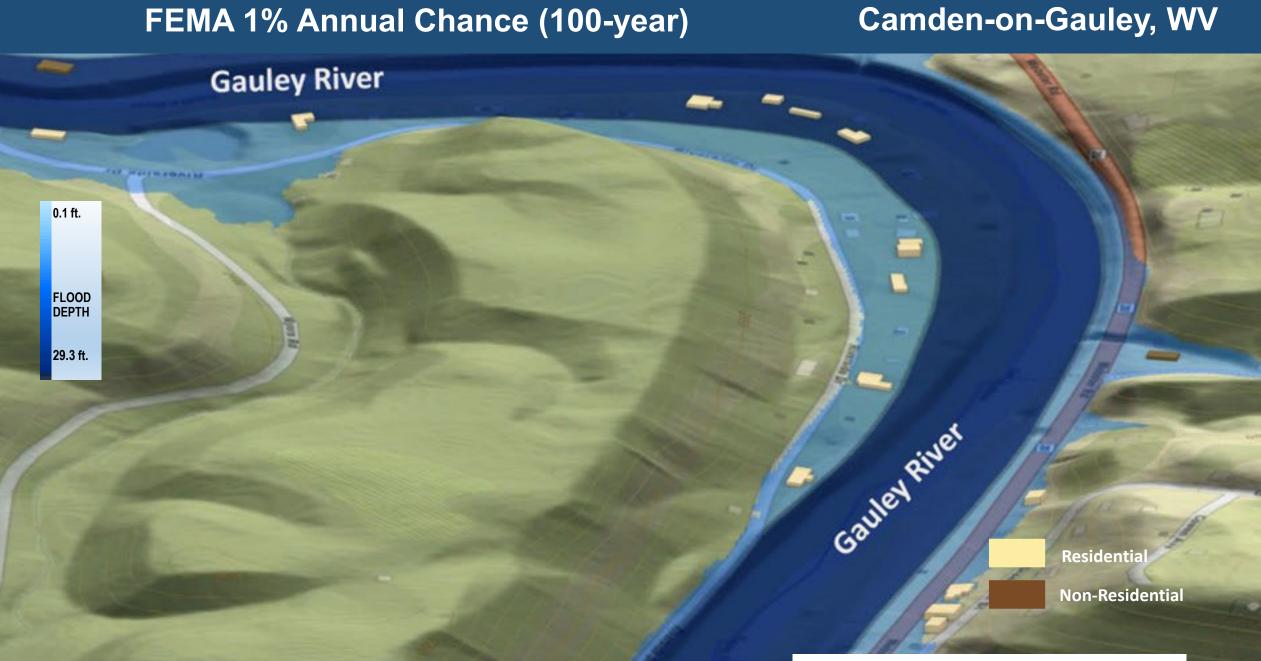
Camden-on-Gauley, WV

Residential

Non-Residential

12% of Camden is in the 2% Annual Flood Chance

45% probability of flooding at least once over 30 years



14% of Camden is in the 1% Annual Flood Chance

FEMA 1+% Annual Chance (100-year)

Gauley River

0.1 ft.

FLOOD DEPTH

31.5 ft.

Camden-on-Gauley, WV

Climate Change

Residential

Non-Residential

26% probability of flooding at least once over 30 years

Gauley River

13% of Camden is in the 1%+ Annual Flood Chance

FEMA 0.2% Annual Chance (500-year)

Camden-on-Gauley, WV

Residential

Non-Residential

15% of Camden is in the 0.2% Annual Flood Chance

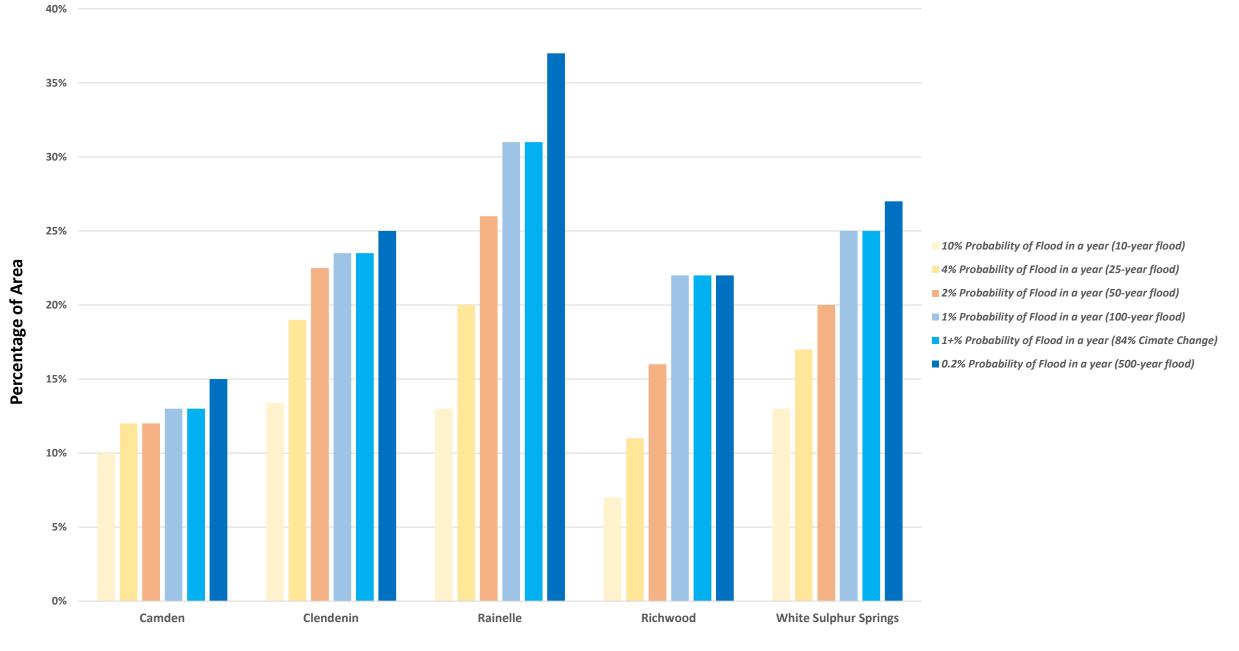
0.1 ft.

FLOOD DEPTH

32.5 ft.

6% probability of flooding at least once over 30 years

Percentage of Inundated Area in each Community



Flood Intervals	Percentage of Inundated Area in each Community				
	Camden	Clendenin	Rainelle	Richwood	White Sulphur Springs
10% Probability of Flood in a year (10-year flood)	10%	13.4%	13%	7%	13%
4% Probability of Flood in a year (25-year flood)	12%	19%	20%	11%	17%
2% Probability of Flood in a year (50-year flood)	12%	22.5%	26%	16%	20%
1% Probability of Flood in a year (100-year flood)	14%	23.5%	31%	18%	22%
*1+% Probability of Flood in a year (84% Climate Change)	13%	23.5%	31%	22%	25%
0.2% Probability of Flood in a year (500-year flood)	15%	25%	37%	22%	27%

* The 1-percent-plus flood elevation is defined as a flood elevation derived by using discharges that are at the upper 84-percent confidence limit as calculated in the gage analysis for the 1- percent-annual-chance event for the Flood Risk Project (FEMA, 2019)