



Building Flood Profile



Women and Children's Hospital



800 Pennsylvania Avenue, Charleston, Kanawha, WV, 25302

20-12-0027-0400-0000 800



Building Flood Profile



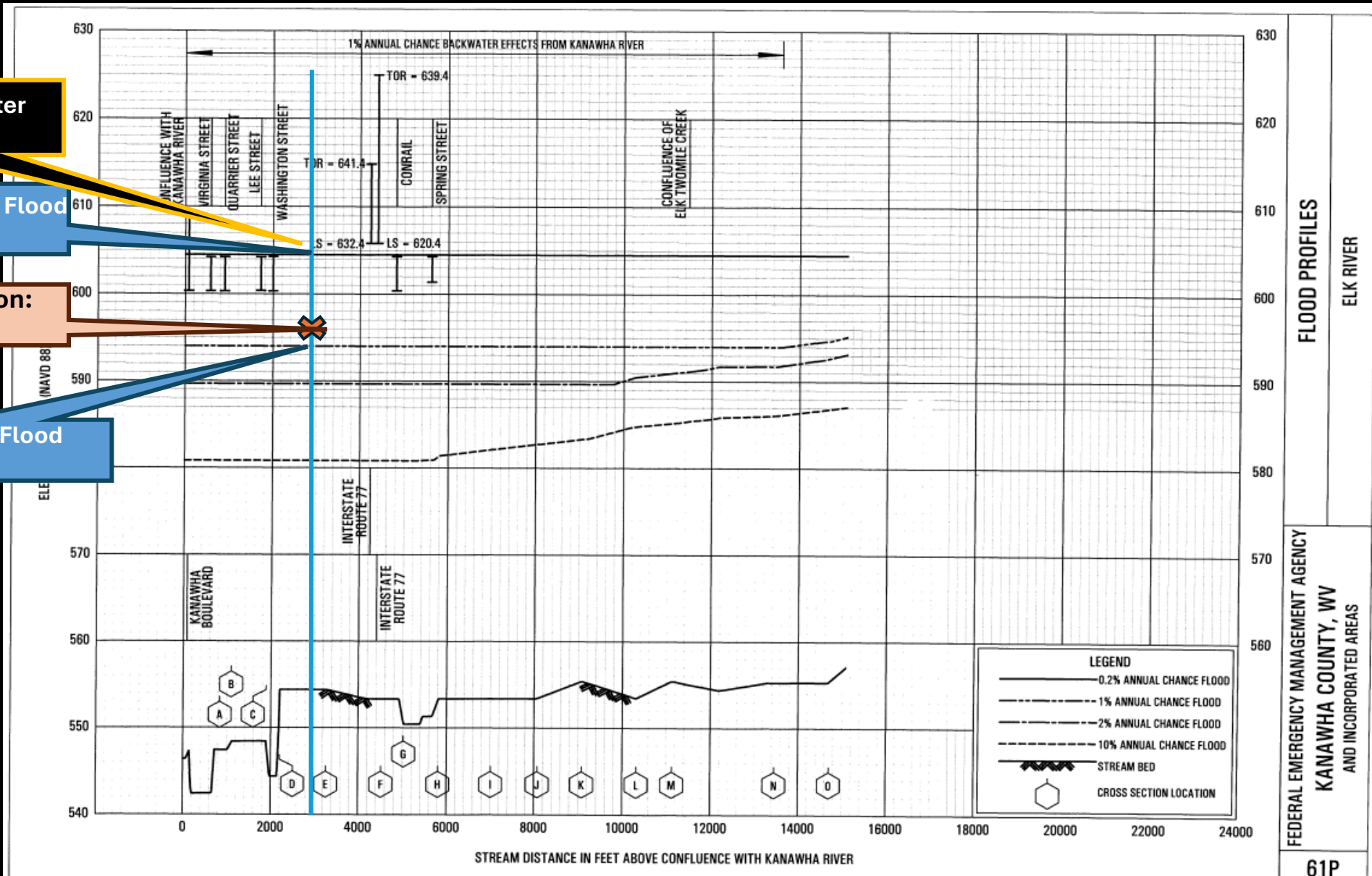
Probability and Height of Flood in a year

1861 Flood High Water Mark: 605.5 ft

FEMA (2008) 500-year Flood Elevation: 604.5 ft

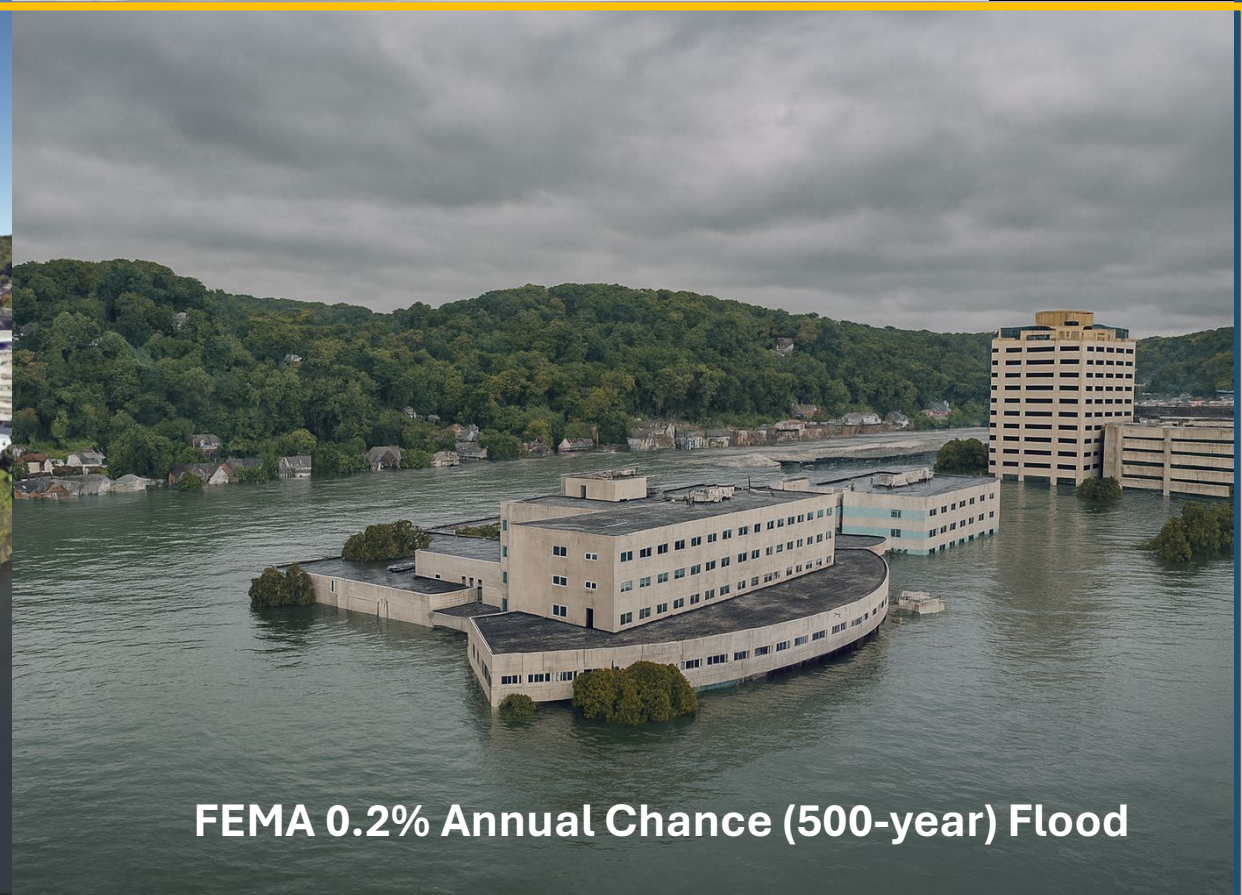
Building's Elevation: 596.7 ft

FEMA (2008) 100-year Flood Elevation: 594 ft





Women and Children's Hospital



FEMA 0.2% Annual Chance (500-year) Flood









0'ft (FEMA 1% / 100-Yr)



FEMA, Effective 2008

First Street Foundation (FSF, 2022)

1861 Flood High Water Mark

Dam Failure



8.8' ft (1861 High Water Mark)

7.8' ft (FEMA 0.2% / 500-Yr)

0'ft (FEMA 1% / 100-Yr)

AMBULANCE
ENTRANCE

Flood Level



FEMA, Effective 2008

First Street Foundation (FSF, 2022)

1861 Flood High Water Mark

Dam Failure



8.8' ft (1861 High Water Mark)

7.8' ft (FEMA 0.2% / 500-Yr)

0' ft (FEMA 1% / 100-Yr)

Flood Level

AMBULANCE
ENTRANCE

11.1 ft. Water Depth
(Sutton Dam Failure)



FEMA, Effective 2008

First Street Foundation (FSF, 2022)

1861 Flood High Water Mark

Dam Failure

12.7' ft (FSF 0.2% / 500-Yr)

8.8' ft (1861 High Water Mark)

7.8' ft (FEMA 0.2% / 500-Yr)

6.5' ft (FSF 1% / 100-Yr)

0'ft (FEMA 1% / 100-Yr)

Flood Level

AMBULANCE
ENTRANCE

11.1 ft. Water Depth
(Sutton Dam Failure)



FEMA, Effective 2008

First Street Foundation (FSF, 2022)

1861 Flood High Water Mark

Dam Failure

12.7' ft (FSF 0.2% / 500-Yr)

8.8' ft (1861 High Water Mark)

7.8' ft (FEMA 0.2% / 500-Yr)

6.5' ft (FSF 1% / 100-Yr)

0'ft (FEMA 1% / 100-Yr)

Flood Level

26 ft. Water Depth
(Summersville Dam Failure)

11.1 ft. Water Depth
(Sutton Dam Failure)

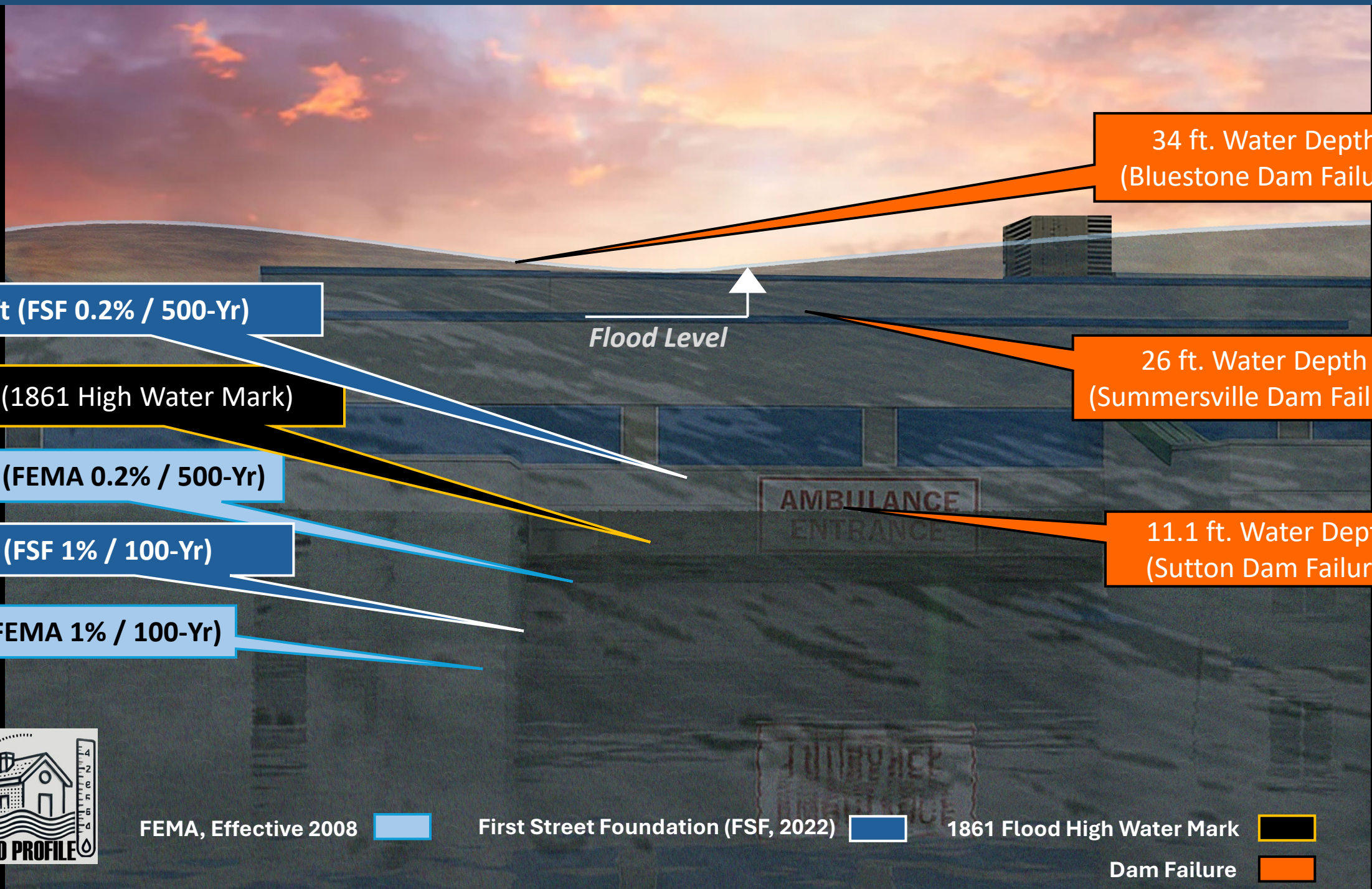


FEMA, Effective 2008

First Street Foundation (FSF, 2022)

1861 Flood High Water Mark

Dam Failure



12.7' ft (FSF 0.2% / 500-Yr)

8.8' ft (1861 High Water Mark)

7.8' ft (FEMA 0.2% / 500-Yr)

6.5' ft (FSF 1% / 100-Yr)

0'ft (FEMA 1% / 100-Yr)

34 ft. Water Depth
(Bluestone Dam Failure)

26 ft. Water Depth
(Summersville Dam Failure)

11.1 ft. Water Depth
(Sutton Dam Failure)



FEMA, Effective 2008

First Street Foundation (FSF, 2022)

1861 Flood High Water Mark

Dam Failure



September 1861 Flood

According to USGS, 1952

Maximum known flood stages and discharges in West Virginia—Continued

Stream and place of determination	Drainage area (square miles)	Datum of gage in feet above mean sea level	Period of known floods	Peak stage and discharge			
				Date	Stage in feet	Discharge	
						Second-feet	Second-feet per square mile
<i>Little Kanawha basin—Continued</i>							
North Fork Yellow Creek near Big Spring, W. Va.	1.51			Aug. 5, 1943		4,700	3,100
West Fork Little Kanawha River at Rocksdale, W. Va.	205	1 657.85	1928-43	Apr. 16, 1939	30.3	20,200	98.5
South Fork Hughes River at Macfarlan, W. Va.	210	1 635.28	1915-43	Uncertain	29	13,000	61.9
Hughes River at Cisko, W. Va.	453	1 605.35	1915-43	Jan. 22, 1917	30.25	25,700	56.8
Island Run at Girta, W. Va.	4.50			Aug. 5, 1943		6,300	1,400
<i>Kanawha River basin</i>							
New River at Glenlyn, Va.	3,768	1 1,489.76	1927-43	Aug. 14, 1940	27.5	226,000	60.0
New River near Hinton, W. Va.	4,600	1 1,368.49	1901-43	Apr. 21, 1901	24.2	234,000	50.8
		1 1,348.2	1878-1943	May 23, 1901			
				Sept. 13, 1878	20.2	260,000	41.6
New River at Hinton, W. Va.	6,257	1 1,355.18	1936-43	Aug. 15, 1940	18.97	246,000	39.3
New River at Caperton, W. Va.	6,826	1 938.44	1928-43	do	36.0	244,000	35.8
New River at Fayette, W. Va.	6,850	1 838.44	1878-1943	Sept. 13, 1878	53	310,000	45.3
Kanawha River at Kanawha Falls, W. Va.	8,367	1 623.20	1861-1943	Sept. 14, 1878	37.8	320,000	38.2
Kanawha River at London Dam, W. Va.	8,490	3 600.00	1935-43	Aug. 15, 1940	23.3		
		3 580.00			42.9		
Kanawha River at Marmet Dam, W. Va.	8,816	3 580.00	1935-43	do	21.4		
		3 560.00			40.8		
Kanawha River at Charleston, W. Va.	8,881	1 655.87	1822-1943	Sept. 29, 1861	46.9		
Kanawha River at Charleston, W. Va.	10,420	1 548.00	1939-43	Aug. 15, 1940	38.25	216,000	20.7
		3 560.00		Dec. 31, 1942	38.77		
Kanawha River at Winfield Dam, W. Va.	11,810	3 530.00	1939-43	Dec. 31, 1942	15.30		
					45.05		
Rich Creek at Peterstown, W. Va.	50.6	1 565.94	1941-43	Mar. 13, 1943	4.90	1,390	27.5
Indian Creek at Indian Mills, W. Va.	189	1 472.54	1941-43	do	9.09	4,560	24.1
Bluestone River at Lilly, W. Va.	438	1 433.7	1908-16	Mar. 25, 1935	11.0	16,600	37.9
			1929-43				

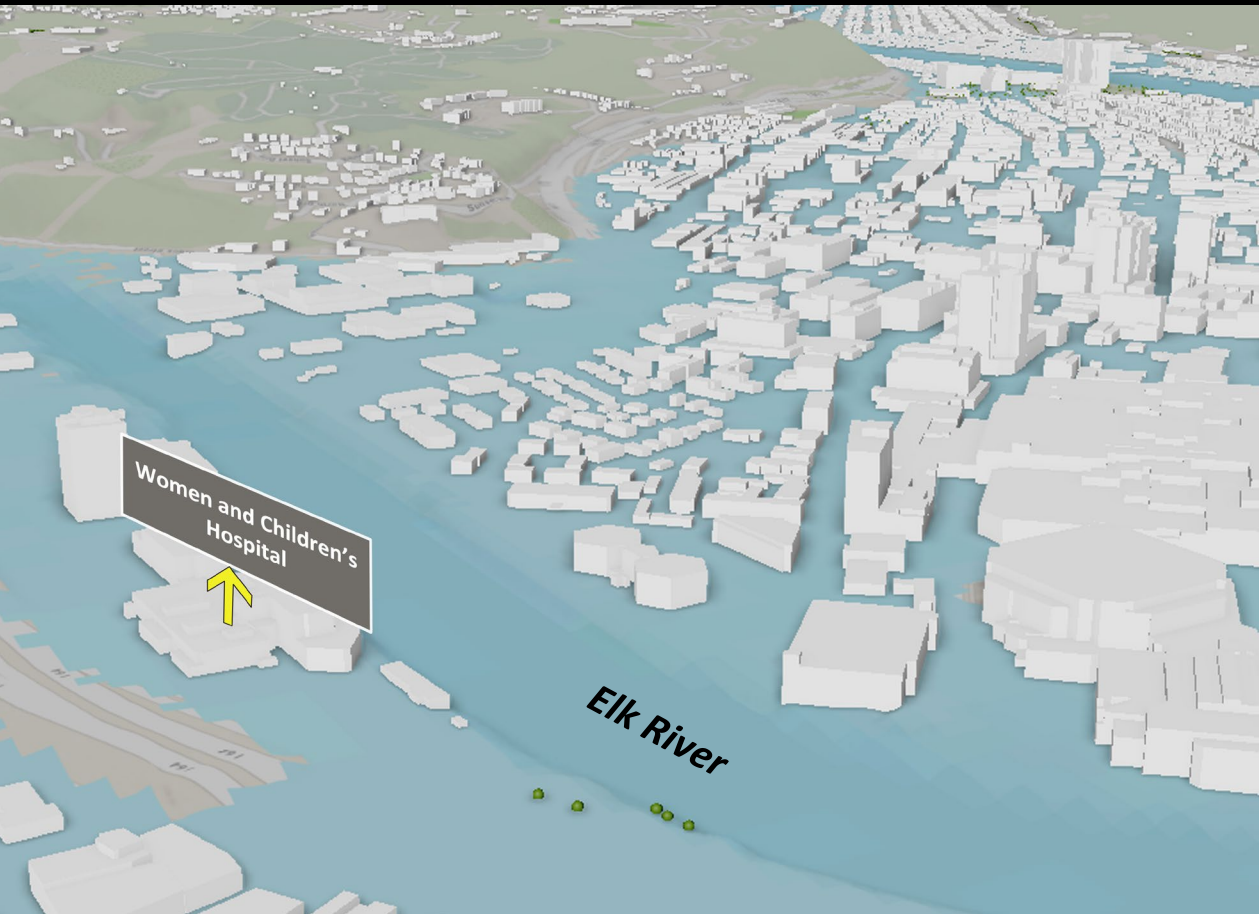
Gauge Location



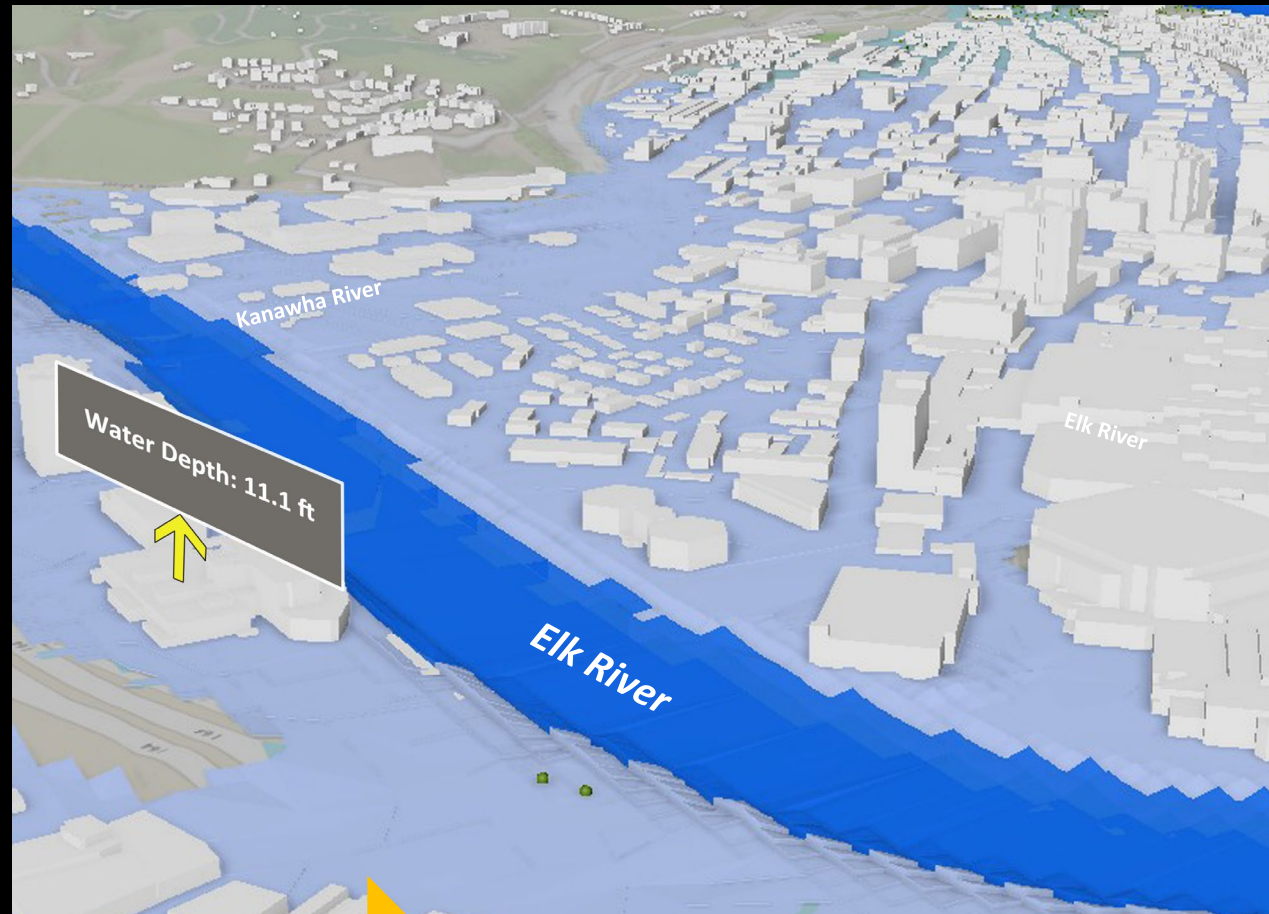
The U.S. Weather Bureau gage at river mile 58.5 on the Kanawha River reached an elevation of 605.5 feet, 5.3 feet higher than the second-highest flood of record at Charleston, which occurred in September 1878 (USACE 1958).



Sutton Dam Maximum Height



The extent of the inundated area



Water Height

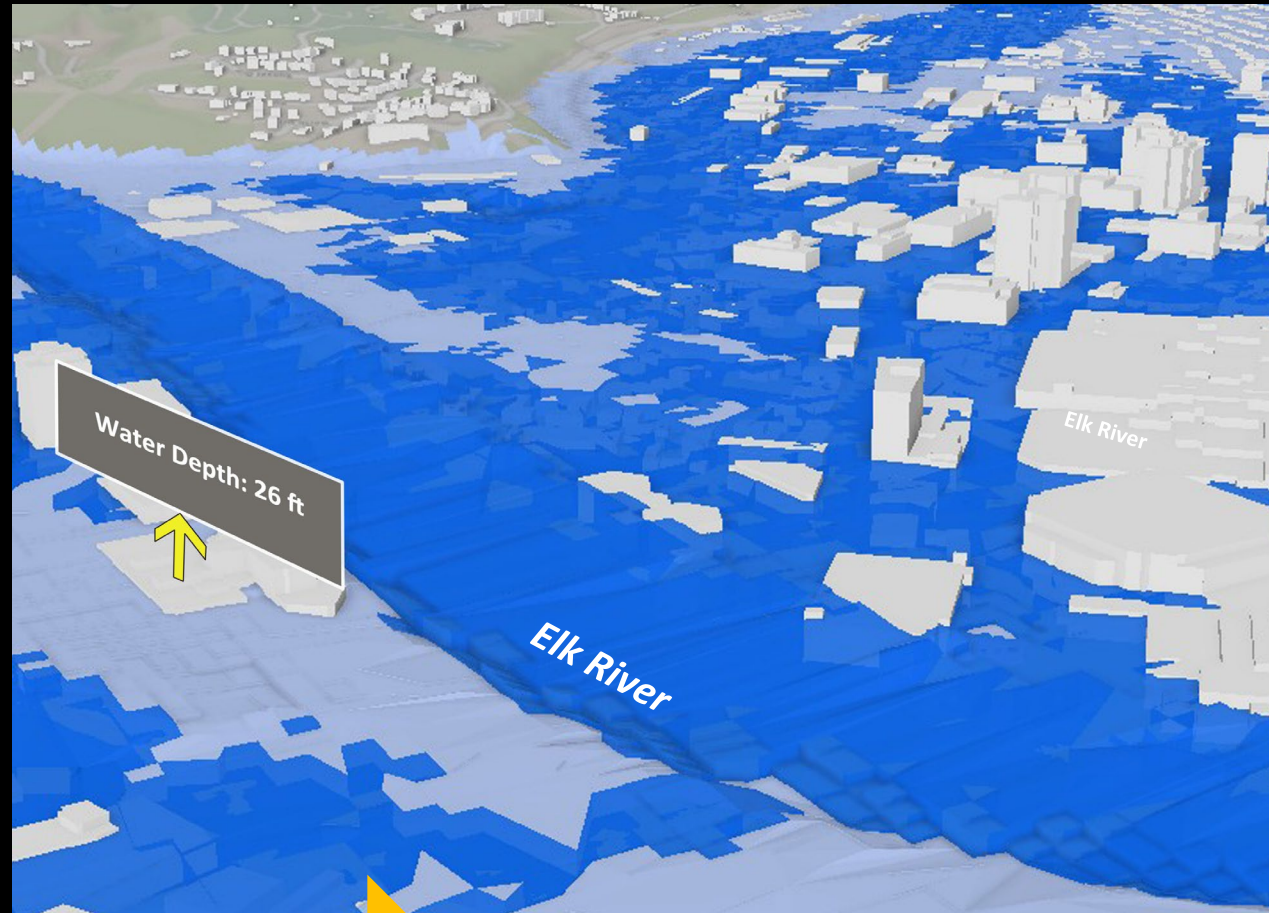
Maximum High (MH) is the pool level near the top of dam resulting from water flowing into the reservoir from heavy rainfall, snowmelt, or other significant high-water events.



Summersville Dam Maximum Height



The extent of the inundated area

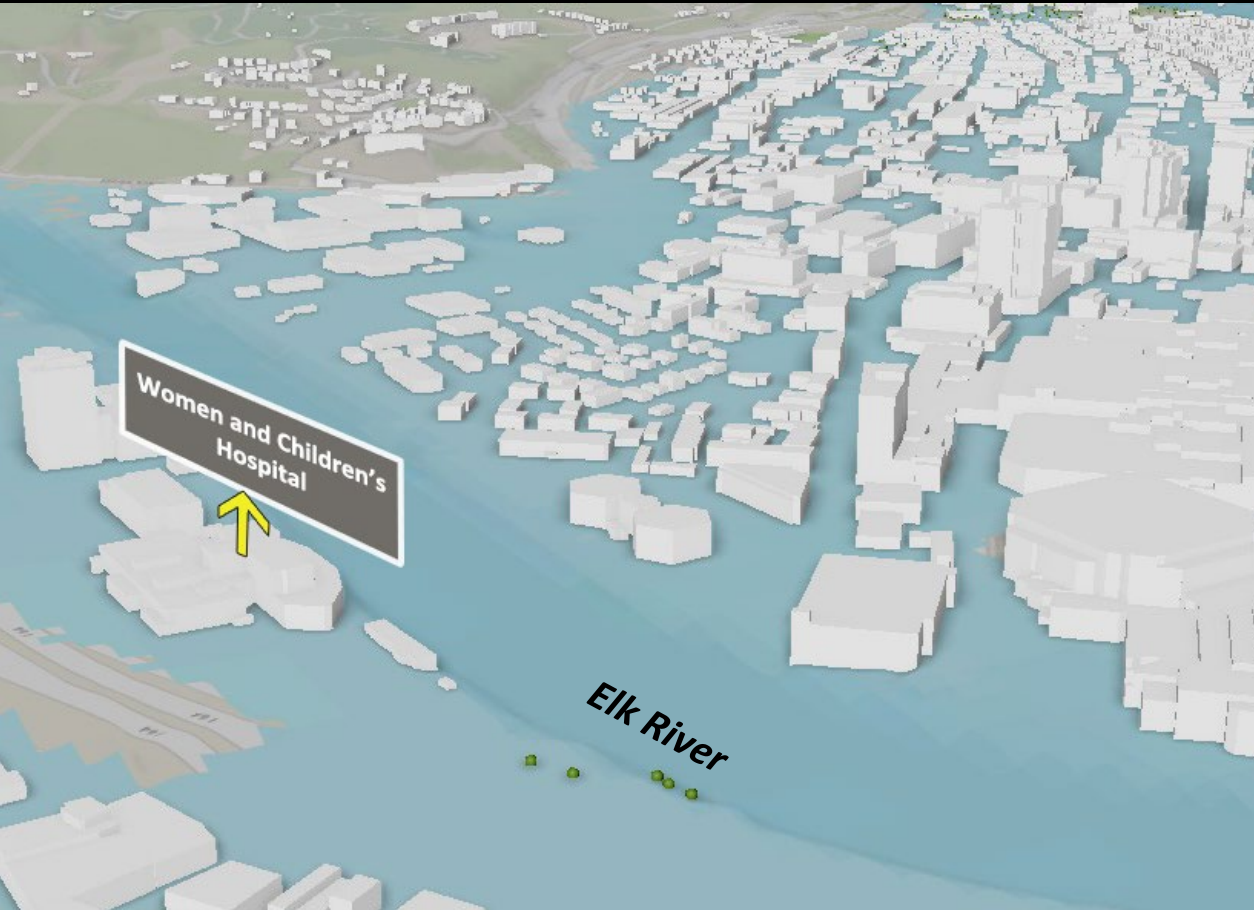


Water Height

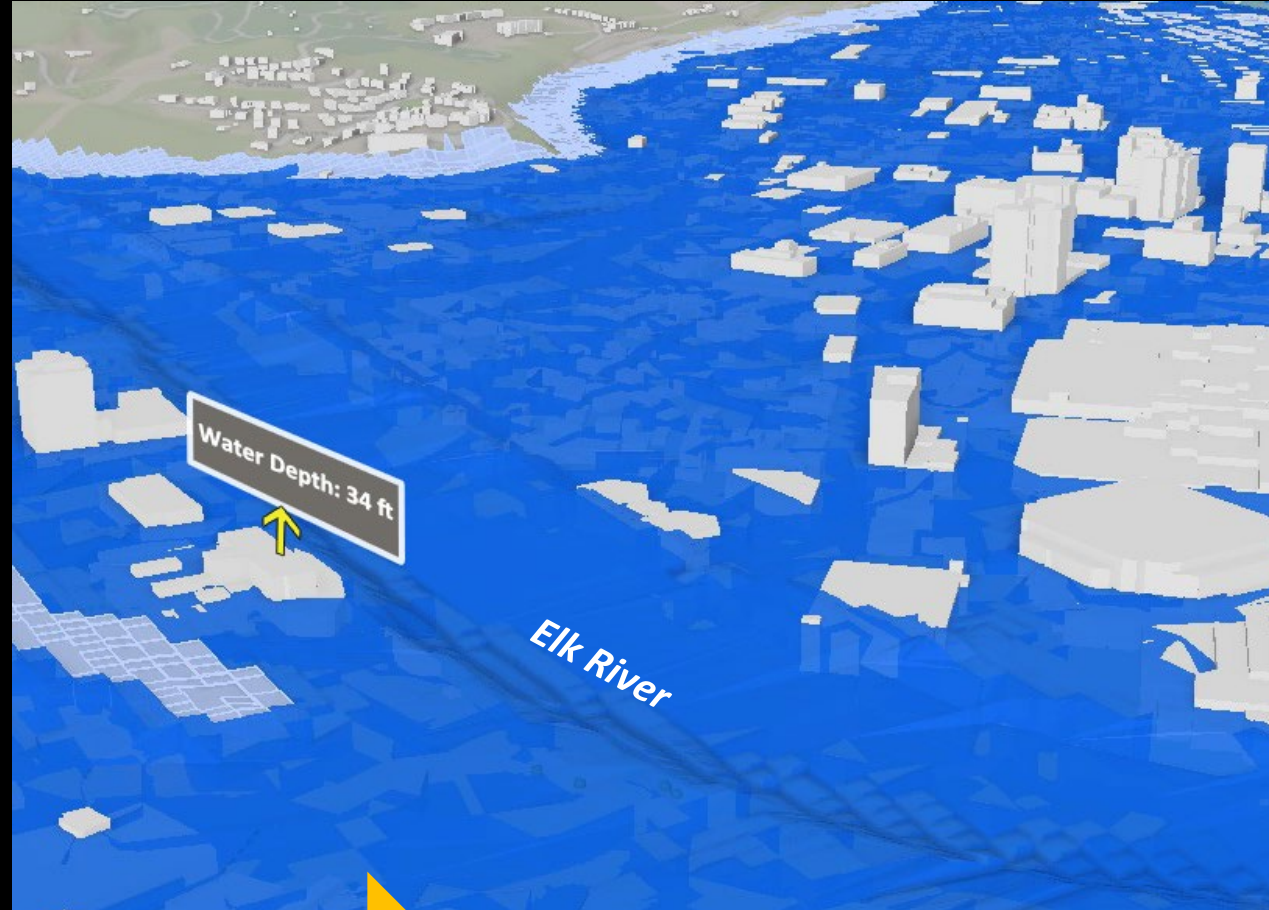
Maximum High (MH) is the pool level near the top of dam resulting from water flowing into the reservoir from heavy rainfall, snowmelt, or other significant high-water events.



Bluestone Dam Maximum Height



The extent of the inundated area



Water Height

Maximum High (MH) is the pool level near the top of dam resulting from water flowing into the reservoir from heavy rainfall, snowmelt, or other significant high-water events.