Historical Floods: Shenandoah River at Front Royal, VA

Latitude: 38.914 Flood Stage: 12				Period of Record Last Flood: S					Longitude: -78.211 Number of Floods: 5
Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code	Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code
4/21/1901	-9999	46,200	Missing	C1 F1 G1	12/27/1973	13.32	29,000	Minor	none
3/1/1902	23.5	76,800	Major	C1 G1	3/20/1975	18.74	50,500	Major	none
3/1/1903	13.7	22,800	Minor	C1 G1	10/10/1976	14.12	31,900	Moderate	none
12/2/1934	17.99	47,400	Moderate	none	11/8/1977	12.03	24,400	Minor	none
9/6/1935	12.94	27,500	Minor	none	1/27/1978	14.13	32,000	Moderate	none
2/16/1936	12.9	27,500	Minor	none	3/15/1978	12.33	25,500	Minor	none
3/18/1936	26.01	98,000	Major	none	2/26/1979	14.43	33,100	Moderate	none
4/27/1937	18.94	51,500	Major	none	9/7/1979	13.92	31,200	Minor	none
8/17/1940	15.86	40,400	Moderate	none	3/20/1983	12.61	26,500	Minor	none
5/23/1942	16.2	41,400	Moderate	none	2/15/1984	15.85	38,500	Moderate	none
10/16/1942	34.8	130,000	Major	none	3/30/1984	12.86	27,400	Minor	none
9/19/1945	17.8	49,200	Moderate	none	11/6/1985	32.43	120,000	Major	none
12/5/1948	12.31	25,400	Minor	none	4/18/1987	18.51	49,400	Major	none
6/19/1949	19.2	52,900	Major	none	4/23/1992	15.03	35,300	Moderate	none
12/5/1950	13.64	30,000	Minor	none	3/5/1993	16.55	41,200	Moderate	none
3/26/1953	12.44	25,800	Minor	none	1/20/1996	25.2	81,000	Major	none
8/19/1955	22.54	68,200	Major	none	9/7/1996	32.57	121,000	Major	none
5/31/1971	17.86	46,600	Moderate	none	1/9/1998	15.42	36,800	Moderate	none
6/22/1972	23.98	75,100	Major	none	2/5/1998	13.82	30,800	Minor	none
10/7/1972	21.35	62,500	Major	none	2/18/1998	15.01	35,300	Moderate	none

Drainage Area: 1634 square miles Gage Datum: 468.93 ft MSL

Data represent all historical events. Shenandoah Basin County of Gage: Warren County of Forecast Point: Warren

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Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code	Date of Flood	Crest (ft)	Streamflow (cfs)	Category	
2/24/2003	12.76	27,053	Minor	none					
9/19/2003	18.07	47,500	Major	none					
9/23/2003	13.78	30,690	Minor	none					
9/29/2004	14.77	34,400	Moderate	none					
11/30/2005	13.64	30,200	Minor	none					
1/26/2010	14.96	35,100	Moderate	none					
3/14/2010	13.14	28,400	Minor	none					
4/18/2011	15.67	37,800	Moderate	none					
5/16/2014	12.07	25,700	Minor	none					
6/3/2018	16.52	43,900	Moderate	none					
9/18/2018	14.34	35,100	Moderate	none					

Drainage Area: 1634 square miles Gage Datum: 468.93 ft MSL

Data represent all historical events. Shenandoah Basin County of Gage: Warren County of Forecast Point: Warren

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Date of Flood	Crest (ft)	Streamflow (cfs)	Category	
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Code

Code Description

- C1 Crest information looks unreliable and incomplete and not used in frequency calculations. Some of the floods are based on current flood stage and nearby gage information.
- C2 Crest information looks reliable despite potential problems. This data was used in frequency calculations.

Code

- C3 Crest height estimated by the USGS.
- C4 Crest height is from the National Weather Service.
- C5 Crest height affected by backwater.
- C6 Crest occurred at a previous flood stage that is lower than the current flood stage. The crests below the new flood stage are not used in flood frequency calculations.
- C7 Crest from USGS yearly peak and/or date is different than the crest we provide. In many cases MARFC uses crest based on backwater or ice effects.
- C8 Crest month or day of occurrence has been estimated by The Middle Atlantic River Forecast Center usually based on nearby gage information.
- C9 Crest date (day) in the month is unknown.
- F1 Flow is an estimate.
- F2 Flow affected by regulation or diversion and in some cases to an unknown degree.
- F3 Flow effected by snow-melt, ice jam or debris jam break up.
- F4 Flow affected by dam failure.
- F5 Flow All or part of the record affected by urbanization, mining, agricultural changes, channelization or other factors.
- G1 Gage height at a different site and/or datum.
- G2 Gage is not an official USGS gage with crests provided by the NWS. Crest information looks unreliable and incomplete and not used in flood frequency calculations.
- G3 Gage datum changed during this year.

none No code; Good Data