

Floods Caused by Tropical Systems: Shenandoah River at Front Royal, VA

Latitude: 38.914

Period of Record: 1901-Present

Longitude: -78.211

Flood Stage: 12

Last Flood: 9/18/2018

Number of Floods: 51

Date of Flood	Crest (ft)	Streamflow (cfs)	Weather Summary
9/6/1935	12.94	27,500	The "Labor Day Hurricane" dumped heavy rain along the East Coast. A total of 16.62 inches of rain was reported in Easton and 12.1 inches of rain was reported in Salisbury, MD.
9/19/1945	17.8	49,200	The 1945 Southeast Florida Hurricane brought gusty winds and heavy rains to the Mid-Atlantic region.
8/19/1955	22.54	68,200	Hurricane Diane made landfall 5 days after Hurricane Connie. Hurricane Diane produced several inches of rain with locally heavier amounts of 10 to 20 inches.
6/22/1972	23.98	75,100	Hurricane Agnes made landfall again over southeastern New York on June 22 and moved westward into Pennsylvania. Rainfall totals from June 20-25 range from 2-3 inches in the Upper Potomac to 18 inches near Shamokin, Pennsylvania.
10/16/1942	34.8	130,000	The remnants of the eighth tropical storm of the year produced torrential rains and caused the worst river flooding in the history of Virginia.
9/19/2003	18.07	47,500	Hurricane Isabel combined with another system and produced more than 3 inches of rain in VA with locally heavier amounts of 10 inches. Another low pressure system moved through the region and produced a few additional inches of rain.
9/23/2003	13.78	30,690	Hurricane Isabel combined with another system and produced more than 3 inches of rain in VA with locally heavier amounts of 10 inches. Another low pressure system moved through the region and produced a few additional inches of rain.
9/7/1979	13.92	31,200	Hurricane David dumped 3-7 inches of rainfall across Virginia, Maryland and Pennsylvania.
9/7/1996	32.57	121,000	Hurricane Fran produced up to 16 inches of rain in the western part of Virginia and up to 7 inches in the Juniata Basin in Pennsylvania. Fran was the worst flood even to hit Maryland since Hurricane Hazel and the January 1996 Flood.

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

Date of Flood	Crest (ft)	Streamflow (cfs)	Weather Summary
8/17/1940	15.86	40,400	As a strong Category 1 storm, the Southeast Hurricane produced over 1 inches of rain just south of our basins and caused widespread flooding across Virginia.
11/6/1985	32.43	120,000	Hurricane Juan produced more than 1 inch of rain in VA with more than 7 inches reported in higher elevations. A coastal low pressure system produced an additional 1-7 inches of rain and caused widespread major flooding in Virginia and Maryland.
9/29/2004	14.77	34,400	Hurricane Jeanne stalled a cold front and supplied the front with much-needed moisture. As a result, 1-day rainfall totals ranged from 1 - 6 inches throughout the Mid-Atlantic region.
9/18/2018	14.34	35,100	Remnants of Hurricane Florence produced rain up to 5+ inches in spots, leading to moderate to major flooding.

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