

Floods Caused by Tropical Systems: Monocacy River at Jug Bridge near Frederick, MD

Latitude: 39.403
Flood Stage: 15

Period of Record: 1889-Present
Last Flood: 12/16/2018

Longitude: -77.366
Number of Floods: 123

Date of Flood	Crest (ft)	Streamflow (cfs)	Weather Summary
9/17/1933	15.98	20,000	Heavy downpours from a stalled front ahead of a tropical circulation.
9/19/1945	15.5	16,300	The 1945 Southeast Florida Hurricane brought gusty winds and heavy rains to the Mid-Atlantic region.
8/13/1955	15.98	17,300	Hurricane Connie produced 4 to 8 inches of rainfall across the Mid-Atlantic region, with locally heavier amounts exceeding 10 inches.
9/26/1975	30.8	61,200	The remnants of Hurricane Eloise combined with a cold front and produced very heavy rainfall in the Mid-Atlantic. Washington, D.C. reported 9.08" of rainfall. Total damage for Virginia was estimated to be \$17.2 million.
6/23/1972	35.9	81,600	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.
10/3/1929	16	18,500	Rainfall from the most powerful hurricane of the 1929 season measured 1 to 4 inches across the Mid-Atlantic states and led to minor flooding across parts of Pennsylvania and Maryland.
10/16/1942	16.97	19,700	The remnants of the eighth tropical storm of the year produced torrential rains and caused the worst river flooding in the history of Virginia.
9/24/2003	19.71	24,100	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.
9/6/1979	22.03	33,700	Hurricane David dumped 3-7 inches of rainfall across Virginia, Maryland and Pennsylvania.

Drainage Area: 817 square miles
Gage Datum: 231.21 ft MSL

Data represent all historical events.
Potomac Basin

County of Gage: Frederick
County of Forecast Point: Frederick

Date of Flood	Crest (ft)	Streamflow (cfs)	Weather Summary
9/9/2011	17.04	18,000	The remnants of tropical storm (TS) Lee moved up the Appalachian Mountains and interacted with a quasi-stationary east-west frontal boundary. 10 to 15 inches fell at numerous locations in Central PA and NY.
9/7/1996	17.74	21,600	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.
10/30/2012	21.78	29,700	Hurricane Sandy moved across NJ through PA producing 3 to 7 inches of rain with locally higher amounts in areas that saw flooding. The hurricane rapidly lost its tropical characteristics as it moved northwest.
8/24/1933	28.1	51,000	A strong Category 1 storm, the Chesapeake-Potomac Hurricane brought more than 10 inches of rain to Maryland, Delaware and Southern New Jersey. Other locations throughout the Mid-Atlantic measured more than 4 inches of rain.
9/1/1940	17.85	24,100	The outer rainbands from Hurricane Four caused minor and moderate flooding at three MARFC forecast points.
9/29/2004	17.65	19,100	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.
9/10/2018	21.36	29,100	Remnants of Tropical Storm Gordon produced rain of 4-9 inches on very wet soils leading to major flooding in spots.

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