

Floods Caused by Tropical Systems: James River at Bremo Bluff, VA

Latitude: 37.708

Period of Record: 1939-Present

Longitude: -78.289

Flood Stage: 19

Last Flood: 10/12/2018

Number of Floods: 123

Date of Flood	Crest (ft)	Streamflow (cfs)	Weather Summary
10/16/1954	20.3	43,000	Hurricane Hazel dumped 6- 10 inches of rain in the western portion of Virginia.
9/19/1945	23.1	56,200	The 1945 Southeast Florida Hurricane brought gusty winds and heavy rains to the Mid-Atlantic region.
8/19/1955	26.7	78,500	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.
9/25/1975	22.7	54,200	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.
6/22/1972	44.8	-9,999	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	29.2	95,000	The remnants of the eighth tropical storm of the year produced torrential rains and caused the worst river flooding in the history of Virginia.
9/11/1950	25.3	69,200	Hurricane Dog's outer rainbands produced upwards of 3 inches of rain in parts of Virginia over a short period of time.
9/7/1996	36.6	-9,999	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.
11/13/2009	20.1	-9,999	The extratropical remnants of Ida dumped more than 12 inches of rain in Coastal Virginia, 5.50 inches of rain in Richmond and 5.00 inches of rain in Farmville.

Drainage Area: 5040 square miles

Gage Datum: 101.44 ft MSL

Data represent all historical events.
James Basin

County of Gage: Fluvanna
County of Forecast Point: Fluvanna

Date of Flood	Crest (ft)	Streamflow (cfs)	Weather Summary
9/9/1987	32.7	120,200	Tropical Depression Nine merged with a cold front to produce over 5 inches of rain in Virginia and 3-7 inches of rain in Pennsylvania.
8/17/1940	33.5	124,900	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.
9/10/2004	19.2	-9,999	The remnants of Hurricane Frances combined with a low pressure system and produced heavy rain throughout the Mid-Atlantic. Rainfall totals ranged from 2 - 3 inches in New Jersey to 2.5 - 6 inches in Central Pennsylvania.
11/6/1985	40.7	207,600	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.
8/20/1969	39.1	188,100	Remnants of Hurricane Camille produced 12-20 inches of rainfall. In Virginia, most of the rainfall occurred in a 3-5 hour period and caused several record-setting floods.
9/30/2004	26	-9,999	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.
10/12/2018	20.5	-9,999	Remnants of Hurricane Michael dumped up to 9 inches of rain near the coast. Moderate to Major flooding in the Appomattox basin.

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