

Floods Caused by Tropical Systems: Rivanna River at Palmyra, VA

Latitude: 37.858
Flood Stage: 17

Period of Record: 1934-Present
Last Flood: 3/22/2019

Longitude: -78.266
Number of Floods: 126

Date of Flood	Crest (ft)	Streamflow (cfs)	Weather Summary
9/6/1935	26.27	29,000	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.
2/4/1952	17.38	11,000	The Groundhog's Day extratropical storm produced over 1 inch of rainfall and caused minor flooding in the James Basin.
10/1/1959	20.41	15,700	Hurricane Gracie produced 3 inches of rain across Virginia with locally heavier amounts. 13.2 inches of rainfall was reported in Big Meadows, VA.
8/19/1985	19.57	12,900	The remnants of Hurricane Danny brought heavy rain to parts of the Mid-Atlantic region. Most of Virginia had at least one inch of rain with locally higher amounts of 7 inches. Minor flooding occurred in the James and Appomattox Basins.
8/19/1955	29	34,800	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.
7/3/2003	21.32	17,687	The remnants of Tropical Storm Bill collided with a frontal system and produced over an inch of rain across most of Virginia and Maryland. Some locations in Central Virginia reported storm totals of 3 to 5 inches.
9/26/1975	23.46	20,300	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	37.34	73,400	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	36.5	78,000	The remnants of the eighth tropical storm of the year produced torrential rains and caused the worst river flooding in the history of Virginia.

Date of Flood	Crest (ft)	Streamflow (cfs)	Weather Summary
9/19/2003	25.91	30,000	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	25.5	25,800	Hurricane David dumped 3-7 inches of rainfall across Virginia, Maryland and Pennsylvania.
9/7/1996	31.54	50,900	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.
9/9/1987	26.65	32,200	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	21.78	16,300	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.
9/9/2004	17.98	12,200	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.
11/5/1985	26.53	31,800	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	39.85	86,000	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.
9/29/2004	18.39	12,600	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	24.22	24,800	Remnants of Hurricane Florence produced rain up to 5+ inches in spots, leading to moderate to major flooding.
10/12/2018	19.97	14,600	Remnants of Hurricane Michael dumped up to 9 inches of rain near the coast. Moderate to Major flooding in the Appomattox basin.

Drainage Area: 663 square miles
Gage Datum: 210.39 ft MSL

Data represent all historical events.
James Basin

County of Gage: Fluvanna
County of Forecast Point: Fluvanna