

# Floods Caused by Tropical Systems: North Branch Susquehanna River near Waverly, NY

Latitude: 41.985

Period of Record: 1936-Present

Longitude: -76.501

Flood Stage: 13

Last Flood: 9/18/2018

Number of Floods: 131

Date of Flood	Crest (ft)	Streamflow (cfs)	Weather Summary
9/18/2004	18.63	89,400	The remnants of Hurricane Ivan, combined with a cold front, produced an average rainfall amount of 2-4 inches in NY, 3-7 inches in PA, 1-3.5 inches in NJ and 2 inches in WV.
9/27/1975	20.16	111,000	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	21.24	121,000	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.
8/29/2011	11.91	47,900	Hurricane Irene brought heavy rains and flooding 26-28 August 2011. Area averaged rainfall from gauge and radar data indicated a broad swath of 3 to 10 inches with over 13" at a couple of spots.
9/23/1938	11.55	54,900	The Long Island Express Hurricane produced more than 5 inches of rain in New Jersey, New York and other parts of the Northeast. Major flooding occurred across New York, New Jersey and Pennsylvania.
9/8/2011	26.67	167,000	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.
10/1/2010	11.26	43,900	Tropical moisture ahead of a north-south frontal boundary interacted with the remnants of tropical storm Nicole to produce heavy rainfall throughout the Mid-Atlantic. Rainfall amounts of 4"-5" were common, with locally heavier amounts of up to 10".
9/18/2018	13.8	60,100	Remnants of Hurricane Florence produced rain up to 5+ inches in spots, leading to moderate to major flooding.

Drainage Area: 4773 square miles

Gage Datum: 743.96 ft MSL

Data represent all historical events.  
North Branch Susquehanna Basin

County of Gage: Bradford  
County of Forecast Point: Tioga