

Floods Caused by Tropical Systems: Ramapo River near Mahwah, NJ

Latitude: 41.098

Period of Record: 1903-Present

Longitude: -74.163

Flood Stage: 8

Last Flood: 12/21/2018

Number of Floods: 106

Date of Flood	Crest (ft)	Streamflow (cfs)	Weather Summary
8/28/1971	10.76	6,700	Tropical Storm Doria dumped 3 to 7 inches of rain across the region. Localized rainfall amounts of 8 to 10 inches were reported in the Tidewater area, Eastern NJ and Eastern PA.
8/13/1955	9.53	4,740	Hurricane Connie produced 4 to 8 inches of rainfall across the Mid-Atlantic region, with locally heavier amounts exceeding 10 inches.
8/19/1955	11.35	8,580	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.
9/18/2004	8.45	3,640	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	8.85	2,940	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	8.55	2,630	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.
8/28/2011	15.77	18,300	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.
10/9/2005	9.6	5,910	Tropical Storm Tammy was absorbed into a cold front and produced 2-day rainfall totals of 4 to 7 inches. Flooding was reported in the Raritan, Passaic, Delaware and Lower Main Stem Susquehanna Basins.
9/22/1938	10.4	6,720	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.

Drainage Area: 120 square miles

Gage Datum: 253.1 ft MSL

Data represent all historical events.
Passaic Basin

County of Gage: Bergen
County of Forecast Point: Bergen

Date of Flood	Crest (ft)	Streamflow (cfs)	Weather Summary
9/13/1960	8.48	2,620	Hurricane Donna made its second landfall near Wilmington, NC as a Category 3 hurricane. It produced 6 to 8 inches of rain in Eastern Virginia and caused 3 fatalities.
9/8/2011	9.54	5,040	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.
7/14/1996	8.47	3,160	Hurricane Bertha became an extratropical system and produced over 2 inches of rain in New Jersey with locally heavier amounts near 5 inches. A frontal passage the next day brought additional rain into the region.
8/24/1933	8.4	5,650	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.
9/16/1999	12.52	11,000	Hurricane Floyd produced heavy rainfall from Virginia to Long Island. Rainfall totals ranged from 12 inches in Delaware to 16.57 inches in Newport News, Virginia. Two dams burst in New Jersey and several flood records were broken in New Jersey.

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