

Flood Event of 8/22/2009 - 8/23/2009

Main Stem Delaware

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Trenton	8.50	8/23/2009	10.65	2,570	Moderate	Delaware	Assunpink Creek	Mercer	Mercer

Raritan

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Blackwells Mills	9.00	8/23/2009	10.43	5,160	Moderate	Raritan	Millstone River	Somerset	Somerset

Weather Summary

An anomalously deep mid to upper level trough and an associated surface cold front drifted east and became stationary at times. Anti-cyclonically curved jet induced increasing upper divergence under the right entrance region in the jet. Lifted indices increased to (-3 to -6), and CAPES increased to 2-3 J/KG by August 22. Precipitable water values were in the 2-2.2 inch range. Hurricane Bill, a strong hurricane well out in the open Atlantic, was indirectly involved as it acted somewhat as a block, helping to keep the frontal system temporarily stalled across the Northeast. The first round of thunderstorms fell on August 21 producing 1 to 4 inches of rain across Delaware and New Jersey. The second round of thunderstorms fell on August 22 and produced another 1 to 4 inches across the same area.

Crest Statistics and Flood Information

Second flood of 2 that occurred in Aug, 2009

Twelfth flood of 17 that occurred in 2009

Number of Floods at MARFC Forecast Points - 2

Number of Floods Cresting in Minor Range - 0

Number of Floods Cresting in Moderate Range - 2

Number of Floods Cresting in Major Range - 0

Number of Floods Cresting in Missing Range - 0