

Flood Event of 2/25/2016 - 2/27/2016

James

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Richmond	12.00	2/25/2016	13.40	52,600	Minor	James	James River	Henrico	Independent City

Lower Main Stem Susquehanna

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Camp Hill	7.00	2/25/2016	7.44	2,660	Minor	Yellow Breeches	Yellow Breeches Creek	Cumberland	Cumberland
Harper Tavern	9.00	2/25/2016	10.85	9,440	Minor	Swatara	Swatara Creek	Lebanon	Lebanon
Hershey	7.00	2/25/2016	7.84	10,300	Minor	Swatara	Swatara Creek	Dauphin	Dauphin

Main Stem Delaware

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Walton	9.50	2/25/2016	10.04	6,400	Minor	Delaware	West Branch Delaware River	Delaware	Delaware

Passaic

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Boonton below Reservoir	5.00	2/25/2016	5.34	1,510	Minor	Passaic	Rockaway River	Morris	Morris
Macopin Intake Dam	5.50	2/25/2016	5.64	1,350	Minor	Passaic	Pequannock River	Passaic	Passaic
Mahwah	8.00	2/25/2016	8.30	3,190	Minor	Passaic	Ramapo River	Bergen	Bergen
Pine Brook	19.00	2/26/2016	19.19	2,880	Minor	Passaic	Passaic River	Morris	Morris

Potomac

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Frederick	15.00	2/25/2016	16.55	17,900	Minor	Potomac	Monocacy River at Jug Bridge	Frederick	Frederick

Raritan

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Blackwells Mills	9.00	2/25/2016	10.81	5,510	Moderate	Raritan	Millstone River	Somerset	Somerset

Southeastern Pennsylvania

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Chadds Ford	9.00	2/25/2016	11.54	8,540	Moderate	Delaware	Brandywine Creek	Delaware	Delaware
Graterford	11.00	2/25/2016	11.93	16,600	Minor	Schuylkill	Perkiomen Creek	Montgomery	Montgomery
Norristown	13.00	2/25/2016	14.12	37,100	Minor	Schuylkill	Schuylkill River	Montgomery	Montgomery
Wilmington	16.50	2/25/2016	16.90	10,200	Minor	Delaware	Brandywine Creek	New Castle	New Castle

Weather Summary

Three separate waves of low pressure ran along a front draped across our southern basins Feb 21-23. This brought periods of rain from just north of the Mason-Dixon southward through Virginia. A strong low pressure deepened on Feb 24 as it moved northeast across the upper Ohio Valley, lower Great Lakes and into Quebec on Feb 25. The associated occluding surface front raced east-northeast through the basins. The front worked with an unseasonably warm and increasing unstable air mass, along with the strong wind field at the mid and upper-levels. A PW plume extended from the eastern Gulf of Mexico northeastward across the eastern U.S. PW anomalies in the plume increased to 2 TO 4 standard deviations above the mean across the region. The anomalous moisture values combined with strong diffluent flow aloft /boundary layer convergence supported organized pre-frontal convection. The final ingredient was a rapidly moving squall line that dumped over two inches of rain in less than an hour in spots. The squall line also produced severe weather including several tornadoes.

Crest Statistics and Flood Information

Second flood of 2 that occurred in Feb, 2016

Second flood of 2 that occurred in 2016

Number of Floods at MARFC Forecast Points - 15

Number of Floods Cresting in Minor Range - 13

Number of Floods Cresting in Moderate Range - 2

Number of Floods Cresting in Major Range - 0

Number of Floods Cresting in Missing Range - 0