

Flood Event of 11/23/2011 - 11/24/2011

Juniata

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Shirleysburg	10.00	11/23/2011	12.63	9,660	Moderate	Juniata	Aughwick Creek	Huntingdon	Huntingdon

Lower Main Stem Susquehanna

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Camp Hill	7.00	11/23/2011	8.35	3,100	Minor	Yellow Breeches	Yellow Breeches Creek	Cumberland	Cumberland
Harper Tavern	9.00	11/23/2011	10.22	8,660	Minor	Swatara	Swatara Creek	Lebanon	Lebanon
Hershey	7.00	11/23/2011	7.16	8,920	Minor	Swatara	Swatara Creek	Dauphin	Dauphin
Hogestown	8.00	11/24/2011	9.49	8,480	Minor	Conodoguinet	Conodoguinet Creek	Cumberland	Cumberland
Shermans Dale	9.00	11/23/2011	9.54	8,520	Minor	Main Stem Susquehanna	Sherman Creek	Perry	Perry

Passaic

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Boonton above Reservoir (Old Site)	5.00	11/24/2011	5.09	1,420	Minor	Passaic	Rockaway River	Morris	Morris

Potomac

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Fairview	10.00	11/23/2011	10.10	7,100	Minor	Potomac	Conococheague Creek	Washington	Washington
Frederick	15.00	11/23/2011	20.25	25,900	Major	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	11/23/2011	9.36	3,770	Minor	Raritan	Millstone River	Somerset	Somerset
Manville	14.00	11/23/2011	14.26	14,500	Minor	Raritan	Raritan River	Somerset	Somerset
Stanton	8.00	11/23/2011	8.09	4,070	Minor	Raritan	South Branch Raritan River	Hunterdon	Hunterdon

Southeastern Pennsylvania

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Chadds Ford	9.00	11/23/2011	10.13	6,760	Minor	Delaware	Brandywine Creek	Delaware	Delaware
Graterford	11.00	11/23/2011	12.61	18,300	Minor	Schuylkill	Perkiomen Creek	Montgomery	Montgomery
Langhorne	9.00	11/23/2011	9.49	7,390	Minor	Neshaminy	Neshaminy Creek	Bucks	Bucks
Norristown	13.00	11/23/2011	14.15	37,300	Minor	Schuylkill	Schuylkill River	Montgomery	Montgomery

Weather Summary

Low pressure deepened on the 22nd and 23rd as it moved through the Ohio Valley and then across PA and NJ. A warm front moved slowly northward across the region and brought a broad region of isentropic lift. Moisture increased with a narrow tongue of precipitable water which was around 2-3 standard deviations (STDS) above normal. Southerly flow of 50 knots at 850mb helped to transport deep moisture into the basins, which supported strong moisture flux anomalies of 3 to 4 STDS above normal. These ingredients led to a widespread rainfall of 2 to 3 inches of rain from the lower half of PA, NJ through WV and MD.

Crest Statistics and Flood Information

First flood of 1 that occurred in Nov, 2011

Seventeenth flood of 18 that occurred in 2011

Number of Floods at MARFC Forecast Points - 16

Number of Floods Cresting in Minor Range - 14

Number of Floods Cresting in Moderate Range - 1

Number of Floods Cresting in Major Range - 1

Number of Floods Cresting in Missing Range - 0