

Flood Event of 11/30/2010 - 12/3/2010

Juniata

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Huntingdon	12.00	12/1/2010	12.36	22,200	Minor	Juniata	Juniata River	Huntingdon	Huntingdon
Shirleysburg	10.00	12/2/2010	12.17	9,020	Moderate	Juniata	Aughwick Creek	Huntingdon	Huntingdon
Spruce Creek	8.00	12/1/2010	11.03	10,700	Moderate	Juniata	Little Juniata River	Huntingdon	Huntingdon
Spruce Creek	8.00	11/30/2010	8.02	5,900	Minor	Juniata	Little Juniata River	Huntingdon	Huntingdon
Williamsburg	12.00	12/1/2010	15.27	11,600	Major	Juniata	Frankstown Branch Juniata River	Blair	Blair

Lehigh

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Walnutport	8.00	12/1/2010	8.26	19,100	Minor	Lehigh	Lehigh River	Northampton	Northampton

Lower Main Stem Susquehanna

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Penns Creek	8.00	12/1/2010	9.73	8,470	Minor	Susquehanna	Penns Creek	Union	Snyder
Shermans Dale	9.00	12/1/2010	10.22	9,920	Minor	Main Stem Susquehanna	Sherman Creek	Perry	Perry

Main Stem Delaware

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Cooks Falls	10.00	12/1/2010	12.29	16,500	Minor	Delaware	Beaver Kill	Delaware	Delaware

Potomac

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Martinsburg	10.00	12/2/2010	10.13	2,710	Minor	Potomac	Opequon Creek	Berkeley	Berkeley

Upper Main Stem Susquehanna

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Monroeton	15.50	12/1/2010	15.92	12,000	Minor	Main Stem Susquehanna	Towanda Creek	Bradford	Bradford

West Branch Susquehanna

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Beech Creek Station	11.00	12/1/2010	14.57	10,400	Major	West Branch Susquehanna	Bald Eagle Creek	Clinton	Clinton
Lewisburg	18.00	12/2/2010	20.90	142,000	Minor	West Branch Susquehanna	West Branch Susquehanna River	Northumberland	Union
Lock Haven	21.00	12/1/2010	24.10	83,400	Moderate	West Branch Susquehanna	West Branch Susquehanna River	Clinton	Clinton
Milton	19.00	12/2/2010	22.76	-9,999	Moderate	West Branch Susquehanna	West Branch Susquehanna River	Union	Northumberland
Montgomery	20.00	12/2/2010	24.50	-9,999	Moderate	West Branch Susquehanna	West Branch Susquehanna River	Lycoming	Lycoming
Muncy	20.00	12/2/2010	24.30	-9,999	Moderate	West Branch Susquehanna	West Branch Susquehanna River	Lycoming	Lycoming
Renovo	16.00	12/1/2010	18.28	93,400	Moderate	West Branch Susquehanna	West Branch Susquehanna River	Clinton	Clinton
Watsonstown	23.00	12/2/2010	24.30	-9,999	Minor	West Branch Susquehanna	West Branch Susquehanna River	Northumberland	Northumberland
Williamsport	20.00	12/2/2010	23.25	143,000	Moderate	West Branch Susquehanna	West Branch Susquehanna River	Lycoming	Lycoming

Weather Summary

A Maddox Synoptic type event (Maddox et al 1979) brought heavy rain and flooding to the Mid-Atlantic region. A deep trough brought a surge of anomalously high PW air into the Eastern United States on 30 November through 1 December 2010. This plume of high PW air produced a significant severe weather event to include several late season tornadoes and heavy rainfall in the Mid-Atlantic and Northeastern United States. The anomalies of key fields showed a pattern consistent with heavy rainfall in the Eastern United States. This high impact weather event (HIWE) was generally well predicted by the NCEP ensemble forecast systems. The strong south-to-north flow over the Eastern United States and associated of plume of high PW air is a classic Maddox-Synoptic heavy rainfall event type. Synoptic rainfall events are the dominant heavy rainfall event type in the Mid-Atlantic Region during the month of December. This event will likely be a top-5 event for the month of December in terms of heavy rainfall.

Source: Grumm NWS WFO CTP

Crest Statistics and Flood Information

First flood of 1 that occurred in Nov, 2010

Tenth flood of 10 that occurred in 2010

Number of Floods at MARFC Forecast Points - 20

Number of Floods Cresting in Minor Range - 10

Number of Floods Cresting in Moderate Range - 8

Number of Floods Cresting in Major Range - 2

Number of Floods Cresting in Missing Range - 0