

# Flood Event of 4/26/2011 - 5/1/2011

## Juniata

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Shirleysburg	10.00	4/28/2011	10.16	5,760	Minor	Juniata	Aughwick Creek	Huntingdon	Huntingdon

## Main Stem Susquehanna

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Bloomsburg	19.00	4/29/2011	22.22	175,000	Moderate	Upper Main Stem Susquehanna	Susquehanna River	Columbia	Columbia
Camp Hill	7.00	4/28/2011	10.48	5,170	Moderate	Yellow Breeches	Yellow Breeches Creek	Cumberland	Cumberland
Conowingo	23.50	4/29/2011	25.06	354,000	Moderate	Lower Main Stem Susquehanna	Susquehanna River	Harford	Cecil
Danville	20.00	4/29/2011	22.41	169,000	Minor	Upper Main Stem Susquehanna	Susquehanna River	Montour	Montour
Harper Tavern	9.00	4/28/2011	9.26	7,520	Minor	Swatara	Swatara Creek	Lebanon	Lebanon
Harrisburg	17.00	4/29/2011	18.37	346,000	Minor	Lower Main Stem Susquehanna	Susquehanna River	Dauphin	Dauphin
Marietta	49.00	4/29/2011	51.15	370,000	Minor	Lower Main Stem Susquehanna	Susquehanna River	Lancaster	Lancaster
Meshoppen	27.00	4/27/2011	27.52	114,000	Minor	Upper Main Stem Susquehanna	Susquehanna River	Wyoming	Wyoming
Meshoppen	27.00	4/29/2011	30.86	152,000	Minor	Upper Main Stem Susquehanna	Susquehanna River	Wyoming	Wyoming
Monroeton	15.50	4/28/2011	16.25	12,800	Minor	Upper Main Stem Susquehanna	Towanda Creek	Bradford	Bradford
Sunbury	24.00	4/29/2011	25.57	297,000	Minor	Lower Main Stem Susquehanna	Susquehanna River	Snyder	Northumberland
Towanda	16.00	4/28/2011	19.41	128,000	Moderate	Upper Main Stem Susquehanna	Susquehanna River	Bradford	Bradford

Tunkhannock	11.00	4/28/2011	11.60	14,300	Minor	Upper Main Stem Susquehanna	Tunkhannock Creek	Wyoming	Wyoming
Wilkes-Barre	22.00	4/29/2011	27.29	159,000	Minor	Upper Main Stem Susquehanna	Susquehanna River	Luzerne	Luzerne

### North Branch Susquehanna

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Bainbridge	15.00	4/29/2011	16.54	25,500	Minor	North Branch Susquehanna	North Branch Susquehanna River	Chenango	Chenango
Chenango Forks	10.00	4/28/2011	10.96	25,300	Minor	North Branch Susquehanna	Chenango River	Broome	Broome
Conklin	12.00	4/28/2011	14.98	33,300	Moderate	North Branch Susquehanna	North Branch Susquehanna River	Broome	Broome
Sherburne	8.50	4/28/2011	10.35	7,910	Moderate	North Branch Susquehanna	Chenango River	Chenango	Chenango
Unadilla	11.00	4/29/2011	11.34	14,000	Minor	North Branch Susquehanna	North Branch Susquehanna River	Otsego	Otsego
Vestal	18.00	4/27/2011	18.95	44,900	Minor	North Branch Susquehanna	North Branch Susquehanna River	Broome	Broome
Vestal	18.00	4/28/2011	23.17	63,300	Moderate	North Branch Susquehanna	North Branch Susquehanna River	Broome	Broome
Waverly	11.00	4/28/2011	16.70	80,800	Moderate	North Branch Susquehanna	North Branch Susquehanna River	Bradford	Tioga

### Potomac

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Martinsburg	10.00	4/28/2011	10.38	2,920	Minor	Potomac	Opequon Creek	Berkeley	Berkeley
Sharpsburg	8.00	4/28/2011	8.39	4,000	Minor	Potomac	Antietam Creek	Washington	Washington

### South Branch Potomac

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
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Franklin	7.00	4/28/2011	7.46	6,560	Minor	South Branch Potomac	South Branch Potomac River	Pendleton	Pendleton
Springfield	15.00	4/29/2011	15.37	22,200	Minor	South Branch Potomac	South Branch Potomac River	Hampshire	Hampshire

### West Branch Susquehanna

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Beech Creek Station	11.00	4/28/2011	12.13	6,070	Minor	West Branch Susquehanna	Bald Eagle Creek	Clinton	Clinton
Lewisburg	18.00	4/29/2011	20.10	113,000	Minor	West Branch Susquehanna	West Branch Susquehanna River	Northumberland	Union
Milton	19.00	4/29/2011	21.03	-9,999	Minor	West Branch Susquehanna	West Branch Susquehanna River	Union	Northumberland
Montgomery	20.00	4/28/2011	22.20	-9,999	Minor	West Branch Susquehanna	West Branch Susquehanna River	Lycoming	Lycoming
Muncy	20.00	4/28/2011	22.20	-9,999	Moderate	West Branch Susquehanna	West Branch Susquehanna River	Lycoming	Lycoming
Williamsport	20.00	4/28/2011	20.27	120,000	Minor	West Branch Susquehanna	West Branch Susquehanna River	Lycoming	Lycoming

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## Weather Summary

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Several weather systems produced periods of scattered to widespread rain across the MARFC Basins from April 22 to April 29. The first system was a slow moving warm front which caused widespread rain on Apr 22 and 23. Some locales in our far western basins picked up over one inch. The warm front exited the basins on April 23 followed by a cold front late April 23 into the 24. Amounts of 0.25 to around 0.75 of an inch were common across the upper Potomac and the MARFC eastern basins from the two fronts. The cold front became nearly stationary near the Mason Dixon line on April 24. A couple waves of low pressure moved along the front spreading another 0.75 to 1.50 inches across eastern MD/PA into New Jersey. The front returned northward as a warm front early on April 25 ushering in deep moisture across the region. More showers and thunderstorms developed as a pre-frontal trough moved into our northwestern basins and kicked off numerous showers and thunderstorms. Another 1.00 to 3.00 inches of rain fell over northern PA and NY Basins which led to the flooding in this area. The 500mb trough continued to deepen on April 26 - 27 and moved into the southern and eastern United States with a strong ridge of high pressure to the east. The strong southerly flow between these two systems produced an elongated south-to-north 250mb jet which enhanced the transport of deep moisture from the Gulf of Mexico into the eastern United States. A slow moving cold front dumped another 1.00 to 2.75 inches of rain by 12Z April 27 and 1.00 to 2.50 inches ending 12Z April 28. The cold front moved out to sea on the 29th and gave our eastern basins 1.00 to 1.50 inches of rain.

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## Crest Statistics and Flood Information

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Fourth flood of 4 that occurred in Apr, 2011

Sixth flood of 18 that occurred in 2011

Number of Floods at MARFC Forecast Points - 33

Number of Floods Cresting in Minor Range - 24

Number of Floods Cresting in Moderate Range - 9

Number of Floods Cresting in Major Range - 0

Number of Floods Cresting in Missing Range - 0