

# Flood Event of 3/12/2010 - 3/21/2010

## Brandywine

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Chadds Ford	9.00	3/14/2010	10.00	7,600	Minor	Christina	Brandywine Creek	Delaware	Delaware

## Delaware

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Pemberton	2.50	3/15/2010	3.68	1,470	Moderate	Delaware	North Branch Rancocas Creek	Burlington	Burlington
Trenton	8.50	3/13/2010	9.36	2,450	Moderate	Delaware	Assunpink Creek	Mercer	Mercer

## James

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Bremo Bluff	19.00	3/15/2010	19.40	-9,999	Minor	James	James River	Fluvanna	Fluvanna
Richmond	12.00	3/15/2010	13.38	52,500	Minor	James	James River	Henrico	Independent City

## Juniata

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Shirleysburg	10.00	3/14/2010	12.78	10,300	Moderate	Juniata	Aughwick Creek	Huntingdon	Huntingdon
Spruce Creek	8.00	3/14/2010	9.84	8,540	Minor	Juniata	Little Juniata River	Huntingdon	Huntingdon
Williamsburg	12.00	3/14/2010	13.56	8,780	Moderate	Juniata	Frankstown Branch Juniata River	Blair	Blair

### Main Stem Susquehanna

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Hogestown	8.00	3/15/2010	8.34	6,540	Minor	Conodoguinet	Conodoguinet Creek	Cumberland	Cumberland
Penns Creek	8.00	3/14/2010	8.92	7,050	Minor	Penns Creek	Penns Creek	Snyder	Snyder

### Neshaminy

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Langhorne	9.00	3/14/2010	12.85	13,900	Major	Neshaminy	Neshaminy Creek	Bucks	Bucks

### North Branch Potomac

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Cumberland	17.00	3/13/2010	17.46	23,500	Minor	North Branch Potomac	North Branch Potomac River	Allegany	Allegany
Cumberland	10.00	3/13/2010	10.85	10,600	Minor	North Branch Potomac	Wills Creek	Allegany	Allegany
Kitzmilller	9.00	3/13/2010	9.76	13,900	Minor	North Branch Potomac	Potomac River	Garret	Garret

### Passaic

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Boonton above Reservoir (Old Site)	5.00	3/14/2010	6.81	4,350	Moderate	Passaic	Rockaway River	Morris	Morris
Boonton below Reservoir	5.00	3/14/2010	8.12	4,230	Major	Passaic	Rockaway River	Morris	Morris
Chatham	6.00	3/15/2010	7.91	2,730	Moderate	Passaic	Passaic River	Morris	Morris
Little Falls	7.00	3/16/2010	11.87	15,800	Major	Passaic	Passaic River	Passaic	Passaic

Lodi	6.00	3/14/2010	7.26	2,470	Moderate	Passaic	Saddle River	Bergen	Bergen
Macopin Intake Dam	5.50	3/14/2010	7.50	3,100	Major	Passaic	Pequannock River	Passaic	Passaic
Mahwah	8.00	3/14/2010	11.90	10,200	Moderate	Passaic	Ramapo River	Bergen	Bergen
Millington	8.00	3/15/2010	9.38	1,900	Moderate	Passaic	Passaic River	Somerset	Morris
Pine Brook	19.00	3/16/2010	22.32	6,690	Major	Passaic	Passaic River	Morris	Morris
Pompton Lakes	11.50	3/14/2010	18.05	11,000	Major	Passaic	Ramapo River	Passaic	Passaic
Pompton Plains	16.00	3/14/2010	22.77	18,900	Major	Passaic	Pompton River	Passaic	Morris
Wanaque	5.00	3/14/2010	7.53	3,100	Moderate	Passaic	Wanaque River	Passaic	Passaic

### Potomac

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Frederick	15.00	3/14/2010	16.92	17,800	Minor	Potomac	Monocacy River at Jug Bridge	Frederick	Frederick
Great Cacapon	9.00	3/14/2010	13.92	17,300	Minor	Potomac	Cacapon River	Morgan	Morgan
Harpers Ferry	18.00	3/15/2010	20.78	-9,999	Minor	Potomac	Potomac River	Jefferson	Jefferson
Leesburg	12.00	3/13/2010	13.08	9,280	Minor	Potomac	Goose Creek	Loudoun	Loudoun
Little Falls (Washington DC)	10.00	3/15/2010	12.82	199,000	Moderate	Potomac	Potomac River	Montgomery	Montgomery
Martinsburg	10.00	3/14/2010	12.91	6,530	Minor	Potomac	Opequon Creek	Berkeley	Berkeley
Paw Paw	25.00	3/14/2010	29.11	65,200	Moderate	Potomac	Potomac River	Allegany	Morgan
Point of Rocks	16.00	3/15/2010	25.52	172,000	Major	Potomac	Potomac River	Frederick	Frederick

Sharpsburg	8.00	3/14/2010	9.08	4,340	Minor	Potomac	Antietam Creek	Washington	Washington
Shepherdstown	15.00	3/15/2010	22.00	-9,999	Major	Potomac	Potomac River	Jefferson	Jefferson
Wisconsin Ave, Washington, DC	6.00	3/15/2010	10.42	-9,999	Major	Potomac	Potomac River	Dist. of Columbia	Dist. of Columbia

### Rappahannock

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Remington	15.00	3/14/2010	18.09	18,100	Minor	Rappahannock	Rappahannock River	Fauquier	Fauquier

### Raritan

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Blackwells Mills	9.00	3/14/2010	16.15	12,200	Major	Raritan	Millstone River	Somerset	Somerset
Bound Brook	28.00	3/14/2010	36.04	45,900	Major	Raritan	Raritan River below Calco Dam	Somerset	Somerset
Manville	14.00	3/14/2010	21.54	28,900	Major	Raritan	Raritan River	Somerset	Somerset
Raritan	10.00	3/14/2010	13.90	14,400	Moderate	Raritan	North Branch Raritan River	Somerset	Somerset
Stanton	8.00	3/14/2010	10.57	7,830	Moderate	Raritan	South Branch Raritan River	Hunterdon	Hunterdon

### Shenandoah

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Front Royal	12.00	3/14/2010	13.14	28,400	Minor	Shenandoah	Shenandoah River	Warren	Warren
Millville	13.50	3/14/2010	15.02	50,100	Moderate	Shenandoah	Shenandoah River	Jefferson	Jefferson

## South Branch Potomac

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Springfield	15.00	3/14/2010	19.37	32,700	Moderate	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
Williamsport	20.00	3/14/2010	24.90	-9,999	Minor	West Branch Susquehanna	West Branch Susquehanna River	Lycoming	Lycoming

## Weather Summary

A low pressure system that moved across the center of the country interacted with a series of low pressure centers in the Southeast to form a deep coastal low. By the 13th of March, the newly formed low was located in eastern VA and was dumping extremely heavy rain across much of the Mid-Atlantic. The low pushed northeastward off of the NJ coastline by the afternoon on the 14th, only to linger off of the coast for the next two days. The persistent heavy rain from this system amounted to totals from 1.00 to 4.00 inches across most of the Mid-Atlantic. However, NJ received even more rain. Up to 5.00 inches of rain fell between 12Z on the 12th and 12Z on 13th alone in the state. By the time the system had moved out of the region, anywhere from 3.00 to 7.00 inches of rain had fallen across NJ, with locally heavier amounts in the northern third of the state. In addition to all of the rain, a large swath of snow cover remained over much of the region from the season's previous storms but several inches of snow melted during this storm across most of the states in the region. The rain, in combination with the water from the snow melt, caused significant flooding across many of the creeks and streams in the Mid-Atlantic Region. Flooding was mainly minor to moderate in the Juniata, Potomac, Delaware, and Lower Susquehanna Basins. However, the Potomac at Point of Rocks, MD and Neshaminy Creek in Langhorne, PA did reach major flood stage. The majority of the worst flooding occurred in NJ, where the heaviest rain had fallen. The heavy rain caused several gauges on the Raritan and Passaic reach major flood stage, and some did not return to below flood stage for about a week.

## Crest Statistics and Flood Information

First flood of 3 that occurred in Mar, 2010

Third flood of 10 that occurred in 2010

Number of Floods at MARFC Forecast Points - 47

Number of Floods Cresting in Minor Range - 18

Number of Floods Cresting in Moderate Range - 16

Number of Floods Cresting in Major Range - 13

Number of Floods Cresting in Missing Range - 0