

Flood Event of 1/25/2010 - 1/28/2010

Delaware

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Cooks Falls	10.00	1/25/2010	10.78	11,900	Minor	Delaware	Beaver Kill	Delaware	Delaware
Walton	9.50	1/25/2010	11.11	9,380	Minor	Delaware	West Branch Delaware River	Delaware	Delaware

James

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Bent Creek	16.00	1/26/2010	16.85	70,300	Minor	James	James River	Nelson	Appomattox
Bremo Bluff	19.00	1/26/2010	29.00	-9,999	Moderate	James	James River	Fluvanna	Fluvanna
Buchanan	17.00	1/26/2010	20.17	42,400	Minor	James	James River	Botetourt	Botetourt
Cartersville	20.00	1/26/2010	23.94	98,500	Moderate	James	James River	Goochland	Cumberland
Holcomb Rock	22.00	1/26/2010	23.78	72,700	Minor	James	James River	Bedford	Bedford
Lick Run	16.00	1/25/2010	18.58	33,300	Minor	James	James River	Botetourt	Botetourt
Palmyra	17.00	1/26/2010	23.52	23,300	Minor	James	Rivanna River	Fluvanna	Fluvanna
Richmond	12.00	1/27/2010	18.10	104,000	Moderate	James	James River	Henrico	Independent City
Scottsville	20.00	1/25/2010	22.10	88,500	Moderate	James	James River	Albemarle	Albermarle

Juniata

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
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Shirleysburg	10.00	1/26/2010	12.18	9,040	Moderate	Juniata	Aughwick Creek	Huntingdon	Huntingdon
Spruce Creek	8.00	1/25/2010	9.60	8,130	Minor	Juniata	Little Juniata River	Huntingdon	Huntingdon
Williamsburg	12.00	1/25/2010	12.25	7,160	Minor	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
Camp Hill	7.00	1/26/2010	8.09	3,140	Minor	Yellow Breeches	Yellow Breeches Creek	Cumberland	Cumberland
Conowingo	23.50	1/27/2010	24.37	325,000	Minor	Lower Main Stem Susquehanna	Susquehanna River	Harford	Cecil
Hogestown	8.00	1/26/2010	9.47	8,440	Minor	Conodoguinet	Conodoguinet Creek	Cumberland	Cumberland
Marietta	49.00	1/27/2010	49.58	316,000	Minor	Lower Main Stem Susquehanna	Susquehanna River	Lancaster	Lancaster
Meshoppen	27.00	1/26/2010	27.95	119,000	Minor	Upper Main Stem Susquehanna	Susquehanna River	Wyoming	Wyoming
Monroeton	15.50	1/25/2010	17.13	15,000	Moderate	Upper Main Stem Susquehanna	Towanda Creek	Bradford	Bradford
Penns Creek	8.00	1/25/2010	8.43	6,250	Minor	Penns Creek	Penns Creek	Snyder	Snyder
Shermans Dale	9.00	1/25/2010	10.62	10,700	Minor	Lower Main Stem Susquehanna	Sherman Creek	Perry	Perry
Towanda	16.00	1/26/2010	17.37	110,000	Minor	Upper Main Stem Susquehanna	Susquehanna River	Bradford	Bradford
Wilkes-Barre	22.00	1/27/2010	22.83	122,000	Minor	Upper Main Stem Susquehanna	Susquehanna River	Luzerne	Luzerne

Neshaminy

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Langhorne	9.00	1/25/2010	10.45	9,040	Moderate	Neshaminy	Neshaminy Creek	Bucks	Bucks

North Branch Susquehanna

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Conklin	12.00	1/25/2010	13.39	27,600	Minor	North Branch Susquehanna	North Branch Susquehanna River	Broome	Broome
Cortland	8.00	1/26/2010	9.01	4,780	Minor	North Branch Susquehanna	Tioughnioga River	Cortland	Cortland
Vestal	18.00	1/26/2010	20.89	53,000	Minor	North Branch Susquehanna	North Branch Susquehanna River	Broome	Broome
Waverly	11.00	1/26/2010	15.09	69,100	Minor	North Branch Susquehanna	North Branch Susquehanna River	Bradford	Tioga

Passaic

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Boonton above Reservoir (Old Site)	5.00	1/26/2010	5.14	2,160	Minor	Passaic	Rockaway River	Morris	Morris
Boonton below Reservoir	5.00	1/26/2010	6.00	2,100	Minor	Passaic	Rockaway River	Morris	Morris
Macopin Intake Dam	5.50	1/26/2010	5.53	1,130	Minor	Passaic	Pequannock River	Passaic	Passaic

Potomac

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Frederick	15.00	1/26/2010	16.71	17,400	Minor	Potomac	Monocacy River at Jug Bridge	Frederick	Frederick
Harpers Ferry	18.00	1/26/2010	18.40	-9,999	Minor	Potomac	Potomac River	Jefferson	Jefferson
Little Falls (Washington DC)	10.00	1/27/2010	10.98	157,000	Minor	Potomac	Potomac River	Montgomery	Montgomery
Martinsburg	10.00	1/26/2010	12.15	5,230	Minor	Potomac	Opequon Creek	Berkeley	Berkeley
Point of Rocks	16.00	1/26/2010	21.42	134,000	Moderate	Potomac	Potomac River	Frederick	Frederick

Shepherdstown	15.00	1/26/2010	18.20	-9,999	Moderate	Potomac	Potomac River	Jefferson	Jefferson
Wisconsin Ave, Washington, DC	6.00	1/27/2010	7.68	-9,999	Moderate	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
Culpeper	14.00	1/25/2010	15.43	16,200	Minor	Rappahannock	Rapidan River	Culpeper	Culpeper
Remington	15.00	1/26/2010	17.96	17,800	Minor	Rappahannock	Rappahannock River	Fauquier	Fauquier

Shenandoah

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Front Royal	12.00	1/26/2010	14.96	35,100	Moderate	Shenandoah	Shenandoah River	Warren	Warren
Luray	14.00	1/26/2010	16.88	39,000	Minor	Shenandoah	South Fork Shenandoah River	Page	Page
Lynnwood	16.00	1/25/2010	19.09	33,600	Moderate	Shenandoah	Shenandoah River	Rockingham	Rockingham
Millville	13.50	1/26/2010	15.11	50,700	Moderate	Shenandoah	Shenandoah River	Jefferson	Jefferson
Waynesboro	9.50	1/25/2010	10.01	5,470	Minor	Shenandoah	South River	Augusta	Independent City

South Branch Potomac

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Franklin	7.00	1/25/2010	9.12	9,920	Moderate	South Branch Potomac	South Branch Potomac River	Pendleton	Pendleton
Petersburg	13.00	1/25/2010	14.86	29,000	Minor	South Branch Potomac	South Branch Potomac River	Grant	Grant
Springfield	15.00	1/26/2010	18.54	30,300	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	1/25/2010	11.44	5,020	Minor	West Branch Susquehanna	Bald Eagle Creek	Clinton	Clinton
Lewisburg	18.00	1/26/2010	19.03	118,000	Minor	West Branch Susquehanna	West Branch Susquehanna River	Northumberland	Union
Loyalsockville	12.00	1/25/2010	14.20	34,900	Major	West Branch Susquehanna	Loyalsock Creek	Lycoming	Lycoming
Milton	19.00	1/26/2010	20.70	-9,999	Minor	West Branch Susquehanna	West Branch Susquehanna River	Union	Northumberland
Montgomery	20.00	1/26/2010	21.50	9,999	Minor	West Branch Susquehanna	West Branch Susquehanna River	Lycoming	Lycoming
Muncy	20.00	1/26/2010	21.50	-9,999	Minor	West Branch Susquehanna	West Branch Susquehanna River	Lycoming	Lycoming
Williamsport	20.00	1/26/2010	20.12	118,000	Minor	West Branch Susquehanna	West Branch Susquehanna River	Lycoming	Lycoming

Weather Summary

A strong low pressure system that originated over the Pacific Ocean brought heavy rains to the Eastern United States in late January. As the system moved northeastward across the country, it strengthened as it interacted with the jet stream and a large area of positive vorticity advection. By the 25th of January, the closed low had moved over the Great Lakes with a minimum central pressure near 980 mb. The fronts associated with the occluding system, which stretched into the Southeast, and its associated triple point marched right across the Mid-Atlantic on the 24th and 25th. This resulted in very high rainfall accumulations over a rather short period of time. In a period of just over 24 hours, upwards of one inch of rain fell across most of the region, with 2.00 - 5.00 inches falling across the higher elevations of Virginia. Some of these areas received more than their average January precipitation during this short period of time. The rapid accumulation of rainfall, in addition to some snow melt ahead of the system, resulted in widespread flooding and flash flooding across the region starting on the 25th. Approximately one third of the forecast points in the Mid-Atlantic reached minor or moderate flood stages. Only on Loyalsock Creek did waters briefly rise above the major flooding threshold. All of the points finally returned below their respective flood stages late on the 28th, several days after the system had moved out of the region.

Crest Statistics and Flood Information

First flood of 1 that occurred in Jan, 2010

First flood of 10 that occurred in 2010

Number of Floods at MARFC Forecast Points - 56

Number of Floods Cresting in Minor Range - 41

Number of Floods Cresting in Moderate Range - 14

Number of Floods Cresting in Major Range - 1

Number of Floods Cresting in Missing Range - 0