

Flood Event of 5/17/2011 - 5/22/2011

James

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Palmyra	17.00	5/18/2011	19.19	23,300	Minor	James	Rivanna River	Fluvanna	Fluvanna

Passaic

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Boonton above Reservoir (Old Site)	5.00	5/19/2011	5.51	2,570	Minor	Passaic	Rockaway River	Morris	Morris
Boonton below Reservoir	5.00	5/19/2011	6.20	2,270	Minor	Passaic	Rockaway River	Morris	Morris
Little Falls	7.00	5/20/2011	7.39	7,310	Minor	Passaic	Passaic River	Passaic	Passaic
Macopin Intake Dam	5.50	5/19/2011	5.65	1,320	Minor	Passaic	Pequannock River	Passaic	Passaic
Pine Brook	19.00	5/20/2011	19.68	3,680	Minor	Passaic	Passaic River	Morris	Morris

Potomac

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Harpers Ferry	18.00	5/19/2011	19.14	-9,999	Minor	Potomac	Potomac River	Jefferson	Jefferson
Little Falls (Washington DC)	10.00	5/19/2011	11.40	166,000	Minor	Potomac	Potomac River	Montgomery	Montgomery
Martinsburg	10.00	5/18/2011	12.32	5,500	Minor	Potomac	Opequon Creek	Berkeley	Berkeley
Paw Paw	25.00	5/19/2011	28.67	63,400	Moderate	Potomac	Potomac River	Allegany	Morgan
Point of Rocks	16.00	5/19/2011	22.15	141,000	Moderate	Potomac	Potomac River	Frederick	Frederick

Shepherdstown	15.00	5/19/2011	-9999.00	-9,999	Missing	Potomac	Potomac River	Jefferson	Jefferson
Springfield	15.00	5/18/2011	19.00	31,500	Moderate	Potomac	South Branch Potomac River	Hampshire	Hampshire
Wisconsin Ave, Washington, DC	6.00	5/20/2011	8.63	-9,999	Moderate	Potlomag	Potomac River	Dist. of Columbia	Dist. of Columbia

Shenandoah

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Millville	13.50	5/19/2011	14.69	48,000	Minor	Shenandoah	Shenandoah River	Jefferson	Jefferson
Strasburg	17.00	5/18/2011	19.07	21,300	Minor	Shenandoah	North Fork Shenandoah River	Warren	Shenandoah

West Branch Susquehanna

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Beech Creek Station	11.00	5/19/2011	11.43	5,010	Minor	West Branch Susquehanna	Bald Eagle Creek	Clinton	Clinton

Weather Summary

The above normal rainfall trend that occurred in March and April continued through May. A very slow moving upper low provided the basins with scattered showers and thunderstorms from May 12 to May 20. The rain led to increasingly rising stages and flooding beginning on the 17th. The upper level low was across the western Great Lakes and Plains States on the 12th when it brought the first batch of rain to our western basins. The low (cut off) across the Ohio Valley on the 15th. A closed upper-level low which has become completely displaced (cut off) from basic westerly current, and moves independently of that current. Cutoff lows may remain nearly stationary for days, or on occasion may move westward opposite to the prevailing flow aloft (i.e., retrogression). (NOAA National Weather Service definitions) The cut off low dropped into Georgia, then slowly moved Northeast through Virginia/Pennsylvania before moving out to sea on the 20th. A Southeast Low Level Jet max brought in deep tropical moisture, several short waves rotating around the low and upslope conditions led to heavy rainfall at many locations.

Crest Statistics and Flood Information

Second flood of 2 that occurred in May, 2011

Eighth flood of 18 that occurred in 2011

Number of Floods at MARFC Forecast Points - 17

Number of Floods Cresting in Minor Range - 12

Number of Floods Cresting in Moderate Range - 4

Number of Floods Cresting in Major Range - 0

Number of Floods Cresting in Missing Range - 1