

Flood Event of 12/9/2009 - 12/11/2009

Appomattox

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Farmville	16.00	12/10/2009	16.49	5,410	Minor	Appomattox	Appomattox River	Cumberland	Prince Edward

James

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Bremo Bluff	19.00	12/10/2009	20.00	-9,999	Minor	James	James River	Fluvanna	Fluvanna
Richmond	12.00	12/10/2009	13.74	55,300	Minor	James	James River	Henrico	Independent City

Main Stem Delaware

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Trenton	8.50	12/9/2009	8.82	1,780	Minor	Delaware	Assumpink Creek	Mercer	Mercer

Potomac

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Martinsburg	10.00	12/10/2009	10.42	2,950	Minor	Potomac	Opequon Creek	Berkeley	Berkeley

Raritan

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Blackwells Mills	9.00	12/10/2009	10.30	5,020	Moderate	Raritan	Millstone River	Somerset	Somerset

Southeastern Pennsylvania

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
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Chadds Ford	9.00	12/9/2009	9.76	7,200	Minor	Delaware	Brandywine Creek	Delaware	Delaware
Langhorne	9.00	12/9/2009	10.07	8,420	Moderate	Neshaminy	Neshaminy Creek	Bucks	Bucks

Weather Summary

A strong low pressure system moved across the majority of the United States in mid-December. Warm air advection and positive vorticity advection ahead of the low allowed for the system to deepen as it moved from the Southwest into the Mississippi River Basin on the eighth and ninth. During this time, a wide swath of heavy precipitation, ranging from liquid rain to snow, moved out ahead of the system into the Mid-Atlantic States. Although most of the precipitation fell in a short period of time, some lighter precipitation lingered over the region through the 10th, as the low pushed into Canada through the Great Lakes. More specifically, the Mid-Atlantic region first saw precipitation from this system in the form of rain over southern Virginia during the afternoon of Tuesday the eighth. Snow and other freezing precipitation began to mix in that night over northern Virginia, eastern West Virginia; northern Maryland, central Pennsylvania, and northern New Jersey. Most of those areas saw anywhere from 1.00 to 6.00 inches of snowfall, with some locally higher amounts. However, the precipitation changed back over to rain across much of the region as temperatures began rising early on the ninth. Basins in Virginia that remained above freezing and thus, received little to no snow accumulation received anywhere from 1.50 to 2.50 inches of rain. Additionally, much of New Jersey and southeastern Pennsylvania received anywhere from 1.50-3.00 inches of rainfall, as well as up to 2.00 inches of snowfall. These high rainfall totals in New Jersey, eastern Pennsylvania, and Virginia led to minor to moderate flooding, largely because of the saturated conditions from the past several weeks of rainfall.

Crest Statistics and Flood Information

First flood of 3 that occurred in Dec, 2009

Fifteenth flood of 17 that occurred in 2009

Number of Floods at MARFC Forecast Points - 8

Number of Floods Cresting in Minor Range - 6

Number of Floods Cresting in Moderate Range - 2

Number of Floods Cresting in Major Range - 0

Number of Floods Cresting in Missing Range - 0