

Flood Event of 9/28/2004 - 10/1/2004

Brandywine

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Chadds Ford	9.00	9/29/2004	13.62	16,300	Major	Christina	Brandywine Creek	Delaware	Delaware
Wilmington	11.00	9/29/2004	13.52	20,800	Moderate	Christina	Brandywine Creek	New Castle	New Castle

Delaware

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Trenton	8.50	9/29/2004	11.08	2,840	Major	Delaware	Assunpink Creek	Mercer	Mercer

James

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Bent Creek	16.00	9/29/2004	16.97	71,300	Minor	James	James River	Nelson	Appomattox
Bremo Bluff	19.00	9/30/2004	26.00	-9,999	Moderate	James	James River	Fluvanna	Fluvanna
Buchanan	17.00	9/29/2004	25.66	61,200	Moderate	James	James River	Botetourt	Botetourt
Cartersville	20.00	9/30/2004	20.49	73,500	Minor	James	James River	Goochland	Cumberland
Covington	17.00	9/28/2004	17.27	18,100	Minor	James	Jackson River below Dunlap Creek	Covington City	Independent City
Holcomb Rock	22.00	9/29/2004	24.35	71,900	Moderate	James	James River	Bedford	Bedford
Lick Run	16.00	9/29/2004	21.69	43,700	Minor	James	James River	Botetourt	Botetourt
Palmyra	17.00	9/29/2004	18.39	12,600	Minor	James	Rivanna River	Fluvanna	Fluvanna

Richmond	12.00	10/1/2004	15.50	72,000	Moderate	James	James River	Henrico	Independent City
Scottsville	20.00	9/30/2004	20.68	74,700	Minor	James	James River	Albemarle	Albermarle

Main Stem Delaware

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Washington Crossing	20.00	9/28/2004	20.20	-9,999	Minor	Main Stem Delaware	Delaware River	Mercer	Bucks

Main Stem Susquehanna

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Camp Hill	7.00	9/29/2004	7.56	2,830	Minor	Yellow Breeches	Yellow Breeches Creek	Cumberland	Cumberland
Harper Tavern	9.00	9/29/2004	10.09	8,690	Minor	Swatara	Swatara Creek	Lebanon	Lebanon
Hershey	7.00	9/29/2004	7.01	8,880	Minor	Swatara	Swatara Creek	Dauphin	Dauphin
Hogestown	8.00	9/30/2004	8.73	7,150	Minor	Conodoguinet	Conodoguinet Creek	Cumberland	Cumberland
Middletown (Old Site)	11.00	9/29/2004	11.00	-9,999	Minor	Lower Main Stem Susquehanna	Swatara Creek	Dauphin	Dauphin

Neshaminy

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Langhorne	9.00	9/29/2004	15.21	19,900	Major	Neshaminy	Neshaminy Creek	Bucks	Bucks

Passaic

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Boonton below Reservoir	5.00	9/29/2004	5.87	2,000	Minor	Passaic	Rockaway River	Morris	Morris

Lodi	6.00	9/29/2004	6.57	2,080	Minor	Passaic	Saddle River	Bergen	Bergen
Pompton Lakes	9.00	9/29/2004	12.78	3,600	Missing	Passaic	Ramapo River	Passaic	Passaic

Potomac

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Frederick	15.00	9/29/2004	17.65	19,100	Moderate	Potomac	Monocacy River at Jug Bridge	Frederick	Frederick
Point of Rocks	16.00	9/30/2004	17.25	98,100	Minor	Potomac	Potomac River	Frederick	Frederick

Rappahannock

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Culpeper	14.00	9/29/2004	14.06	14,300	Minor	Rappahannock	Rapidan River	Culpeper	Culpeper
Remington	15.00	9/29/2004	18.13	16,300	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	9/29/2004	10.26	5,210	Moderate	Raritan	Millstone River	Somerset	Somerset
Bound Brook	28.00	9/29/2004	28.79	19,900	Minor	Raritan	Raritan River below Calco Dam	Somerset	Somerset
Manville	14.00	9/29/2004	15.96	17,900	Minor	Raritan	Raritan River	Somerset	Somerset
Raritan	10.00	9/29/2004	10.48	10,000	Minor	Raritan	North Branch Raritan River	Somerset	Somerset
Stanton	8.00	9/29/2004	8.10	4,080	Minor	Raritan	South Branch Raritan River	Hunterdon	Hunterdon

Schuylkill

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Graterford	11.00	9/29/2004	12.53	19,200	Minor	Schuylkill	Perkiomen Creek	Montgomery	Montgomery
Philadelphia	11.00	9/29/2004	11.86	58,500	Minor	Schuylkill	Schuylkill River	Philadelphia	Philadelphia

Shenandoah

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Front Royal	12.00	9/29/2004	14.77	34,400	Moderate	Shenandoah	Shenandoah River	Warren	Warren
Luray	14.00	9/29/2004	16.24	36,000	Minor	Shenandoah	South Fork Shenandoah River	Page	Page
Lynnwood	16.00	9/29/2004	18.92	32,900	Moderate	Shenandoah	Shenandoah River	Rockingham	Rockingham
Millville	13.50	9/30/2004	14.15	44,500	Minor	Shenandoah	Shenandoah River	Jefferson	Jefferson
Waynesboro	9.50	9/28/2004	10.45	6,460	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
Moorefield	10.00	9/28/2004	17.09	7,570	Major	South Branch Potomac	South Fork South Branch Potomac River	Hardy	Hardy
Springfield	15.00	9/29/2004	15.19	21,800	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	9/28/2004	11.64	5,310	Minor	West Branch Susquehanna	Bald Eagle Creek	Clinton	Clinton

Weather Summary

Upon passing across Florida into Georgia on September 26, Hurricane Jeanne clipped the southern end of a cold front pulling eastward into the Atlantic Ocean, stalling the lower portion of the boundary as it moved into Virginia on the 27th. A cold front rushing eastward with a low centered in Canada closed in on the system as it climbed towards the New Jersey coast providing an extra boost in precipitation across Northern Virginia, Maryland, Southeastern Pennsylvania and New Jersey on September 28. Precipitation totals for September 27-29 ranged between 1 and 3.5 inches for the West Branch and Lower Main Stem Susquehanna Basins, 3 - 6 inches for the Lower Delaware Basin, 3 - 4 inches for the Passaic and Raritan Basins, 2 - 4 inches for the Rappahannock and James River Basins and 3 - 5 inches for the Potomac and Shenandoah Basins. Since the majority of rain fell over a 24 hour period (September 28th) and in small areas including the northern Shenandoah River Basin and the lower Delaware Basin between Philadelphia, PA and Wilmington, DE, it was no surprise that significant flooding would occur from this event.

Crest Statistics and Flood Information

Third flood of 3 that occurred in Sep, 2004

Fifteenth flood of 16 that occurred in 2004

Number of Floods at MARFC Forecast Points - 42

Number of Floods Cresting in Minor Range - 28

Number of Floods Cresting in Moderate Range - 9

Number of Floods Cresting in Major Range - 4

Number of Floods Cresting in Missing Range - 1