

Flood Event of 1/8/1998 - 1/10/1998

Chemung

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Elmira	12.00	1/8/1998	13.18	36,700	Minor	Chemung	Chemung River	Chemung	Chemung
Mansfield	12.00	1/8/1998	14.45	4,700	Major	Chemung	Tioga River	Tioga	Tioga

Delaware

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Cooks Falls	10.00	1/8/1998	10.88	11,900	Minor	Delaware	Beaver Kill	Delaware	Delaware
Walton	9.50	1/9/1998	11.94	11,300	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	1/9/1998	17.02	71,700	Minor	James	James River	Nelson	Appomattox
Bremo Bluff	19.00	1/9/1998	26.50	-9,999	Moderate	James	James River	Fluvanna	Fluvanna
Buchanan	17.00	1/9/1998	19.95	51,000	Minor	James	James River	Botetourt	Botetourt
Cartersville	20.00	1/10/1998	21.05	76,900	Minor	James	James River	Goochland	Cumberland
Lick Run	16.00	1/8/1998	18.43	33,000	Minor	James	James River	Botetourt	Botetourt
Richmond	12.00	1/10/1998	15.70	74,300	Moderate	James	James River	Henrico	Independent City
Scottsville	20.00	1/9/1998	21.13	78,800	Minor	James	James River	Albemarle	Albemarle

Main Stem Susquehanna

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Conowingo	23.50	1/10/1998	25.55	372,000	Moderate	Lower Main Stem Susquehanna	Susquehanna River	Harford	Cecil
Danville	20.00	1/10/1998	20.43	143,000	Minor	Upper Main Stem Susquehanna	Susquehanna River	Montour	Montour
Harrisburg	17.00	1/10/1998	17.27	316,000	Minor	Lower Main Stem Susquehanna	Susquehanna River	Dauphin	Dauphin
Hogestown	8.00	1/9/1998	9.20	-9,999	Minor	Conodoguinet	Conodoguinet Creek	Cumberland	Cumberland
Marietta	49.00	1/10/1998	50.17	336,000	Minor	Lower Main Stem Susquehanna	Susquehanna River	Lancaster	Lancaster
Meshoppen	27.00	1/9/1998	28.94	135,000	Minor	Upper Main Stem Susquehanna	Susquehanna River	Wyoming	Wyoming
Penns Creek	8.00	1/8/1998	8.75	6,770	Minor	Penns Creek	Penns Creek	Snyder	Snyder
Shermans Dale	9.00	1/8/1998	9.75	7,310	Minor	Lower Main Stem Susquehanna	Sherman Creek	Perry	Perry
Towanda	16.00	1/9/1998	17.88	113,000	Minor	Upper Main Stem Susquehanna	Susquehanna River	Bradford	Bradford
Wilkes-Barre	22.00	1/9/1998	24.79	138,000	Moderate	Upper Main Stem Susquehanna	Susquehanna River	Luzerne	Luzerne

North Branch Susquehanna

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Bainbridge	13.00	1/10/1998	19.91	35,800	Minor	North Branch Susquehanna	North Branch Susquehanna River	Chenango	Chenango
Chenango Forks	10.00	1/9/1998	10.34	22,200	Minor	North Branch Susquehanna	Chenango River	Broome	Broome
Conklin	11.00	1/10/1998	15.42	36,400	Moderate	North Branch Susquehanna	North Branch Susquehanna River	Broome	Broome
Cortland	8.00	1/8/1998	10.32	6,990	Moderate	North Branch Susquehanna	Tioughnioga River	Cortland	Cortland

Rockdale	11.00	1/9/1998	11.16	12,000	Minor	North Branch Susquehanna	Unadilla River	Chenango	Chenango
Sherburne	8.00	1/9/1998	8.56	-9,999	Minor	North Branch Susquehanna	Chenango River	Chenango	Chenango
Sherburne	8.00	1/8/1998	8.53	-9,999	Minor	North Branch Susquehanna	Chenango River	Chenango	Chenango
Unadilla	11.00	1/10/1998	13.60	20,300	Moderate	North Branch Susquehanna	North Branch Susquehanna River	Otsego	Otsego
Vestal	18.00	1/9/1998	21.56	54,300	Moderate	North Branch Susquehanna	North Branch Susquehanna River	Broome	Broome
Waverly	11.00	1/9/1998	15.35	67,500	Minor	North Branch Susquehanna	North Branch Susquehanna River	Bradford	Tioga
Windsor	17.00	1/10/1998	18.60	34,600	Minor	North Branch Susquehanna	North Branch Susquehanna River	Broome	Broome

Potomac

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Frederick	15.00	1/9/1998	17.79	21,700	Moderate	Potomac	Monocacy River at Jug Bridge	Frederick	Frederick
Little Falls (Washington DC)	10.00	1/10/1998	10.43	144,000	Minor	Potomac	Potomac River	Montgomery	Montgomery
Martinsburg	10.00	1/9/1998	10.57	3,190	Minor	Potomac	Opequon Creek	Berkeley	Berkeley
Point of Rocks	16.00	1/10/1998	20.07	122,000	Moderate	Potomac	Potomac River	Frederick	Frederick
Shepherdstown	15.00	1/9/1998	17.17	-9,999	Minor	Potomac	Potomac River	Jefferson	Jefferson
Wisconsin Ave, Washington, DC	6.00	1/10/1998	6.73	-9,999	Minor	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	1/9/1998	16.65	13,600	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	1/9/1998	15.42	36,800	Moderate	Shenandoah	Shenandoah River	Warren	Warren
Luray	14.00	1/8/1998	16.39	36,700	Minor	Shenandoah	South Fork Shenandoah River	Page	Page
Millville	13.50	1/9/1998	15.35	52,300	Moderate	Shenandoah	Shenandoah River	Jefferson	Jefferson

West Branch Susquehanna

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Lewisburg	18.00	1/9/1998	18.83	118,000	Minor	West Branch Susquehanna	West Branch Susquehanna River	Northumberland	Union

Weather Summary

An upper level trough developed along the southwest coast and deepened as it crossed over Texas. It picked up moisture from the Gulf of Mexico and headed northeast. On this northeast track it delved so far south that another trough was able to develop to its north over Montana. These troughs combined into one on January 9. The system was occluded at all levels by 00Z on the 10th. With this system pulling moisture up from the Gulf, it was also pulling up lots of warm air. Unseasonably warm temperatures entered the Middle Atlantic Region. This combined with presoaked grounds made way for a wide spread flood event. Maryland received 2 to 3 inches, at least 3 to 5 inches in New York, over 2 inches in Pennsylvania, up to 6 to 7 inches in some places of Virginia, and 2 to 3 inches in West Virginia.

Crest Statistics and Flood Information

First flood of 3 that occurred in Jan, 1998

First flood of 14 that occurred in 1998

Number of Floods at MARFC Forecast Points - 43

Number of Floods Cresting in Minor Range - 30

Number of Floods Cresting in Moderate Range - 12

Number of Floods Cresting in Major Range - 1

Number of Floods Cresting in Missing Range - 0