

Flood Event of 11/28/1993 - 12/1/1993

Appomattox

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Farmville	16.00	11/29/1993	20.79	11,700	Moderate	Appomattox	Appomattox River	Cumberland	Prince Edward
Mattoax	21.00	12/1/1993	26.54	12,100	Moderate	Appomattox	Appomattox River	Chesterfield	Amelia

James

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Palmyra	17.00	11/28/1993	22.48	19,800	Minor	James	Rivanna River	Fluvanna	Fluvanna
Richmond	12.00	11/29/1993	15.30	69,600	Moderate	James	James River	Henrico	Independent City

Juniata

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Huntingdon	12.00	11/28/1993	13.07	24,700	Moderate	Juniata	Juniata River	Huntingdon	Huntingdon
Shirleysburg	10.00	11/28/1993	15.19	11,500	Moderate	Juniata	Aughwick Creek	Huntingdon	Huntingdon
Spruce Creek	8.00	11/28/1993	11.95	13,600	Moderate	Juniata	Little Juniata River	Huntingdon	Huntingdon
Williamsburg	12.00	11/28/1993	16.03	12,300	Major	Juniata	Frankstown Branch Juniata River	Blair	Blair

Lehigh

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Walnutport	8.00	11/28/1993	9.39	24,500	Minor	Lehigh	Lehigh River	Northampton	Northampton

Lower Main Stem Susquehanna

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Camp Hill	7.00	11/28/1993	8.55	3,320	Minor	Yellow Breeches	Yellow Breeches Creek	Cumberland	Cumberland
Harper Tavern	9.00	11/29/1993	15.09	15,800	Major	Swatara	Swatara Creek	Lebanon	Lebanon
Hershey	7.00	11/29/1993	10.33	16,500	Moderate	Swatara	Swatara Creek	Dauphin	Dauphin
Hogestown	8.00	11/29/1993	9.47	8,310	Minor	Conodoguinet	Conodoguinet Creek	Cumberland	Cumberland
Lancaster	11.00	11/28/1993	11.95	9,060	Minor	Conestoga	Conestoga River	Lancaster	Lancaster
Middletown (Old Site)	11.00	11/29/1993	14.00	-9,999	Moderate	Main Stem Susquehanna	Swatara Creek	Dauphin	Dauphin
Penns Creek	8.00	11/28/1993	9.47	7,980	Minor	Susquehanna	Penns Creek	Union	Snyder
Shermans Dale	9.00	11/28/1993	11.42	10,400	Moderate	Main Stem Susquehanna	Sherman Creek	Perry	Perry

Main Stem Delaware

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Cooks Falls	10.00	11/28/1993	11.22	13,100	Minor	Delaware	Beaver Kill	Delaware	Delaware

Passaic

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Lodi	5.00	11/28/1993	6.12	1,990	Minor	Passaic	Saddle River	Bergen	Bergen

Potomac

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
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Cumberland	10.00	11/28/1993	10.26	11,800	Minor	Potomac	Wills Creek	Allegany	Allegany
Dawsonville	7.50	11/28/1993	10.37	9,160	Minor	Potomac	Seneca Creek	Montgomery	Montgomery
Fairview	10.00	11/28/1993	14.11	14,600	Moderate	Potomac	Conococheague Creek	Washington	Washington
Frederick	15.00	11/29/1993	20.13	27,500	Major	Potomac	Monocacy River at Jug Bridge	Frederick	Frederick
Great Cacapon	9.00	11/28/1993	12.79	14,400	Minor	Potomac	Cacapon River	Morgan	Morgan
Little Falls (Washington DC)	10.00	11/29/1993	10.09	136,000	Minor	Potomac	Potomac River	Montgomery	Montgomery
Martinsburg	10.00	11/28/1993	13.26	7,510	Moderate	Potomac	Opequon Creek	Berkeley	Berkeley
Point of Rocks	16.00	11/29/1993	19.25	115,000	Minor	Potomac	Potomac River	Frederick	Frederick
Shepherdstown	15.00	11/29/1993	19.42	-9,999	Moderate	Potomac	Potomac River	Jefferson	Jefferson

Rappahannock

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Culpeper	14.00	11/28/1993	14.58	10,900	Minor	Rappahannock	Rapidan River	Culpeper	Culpeper
Remington	15.00	11/28/1993	18.50	21,600	Minor	Rappahannock	Rappahannock River	Fauquier	Fauquier

Southeastern Pennsylvania

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Pottstown	13.00	11/29/1993	13.64	26,000	Minor	Schuylkill	Schuylkill River	Montgomery	Montgomery
Reading	13.00	11/28/1993	15.40	26,900	Minor	Schuylkill	Schuylkill River	Berks	Berks

West Branch Susquehanna

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Beech Creek Station	11.00	11/28/1993	14.30	9,960	Major	West Branch Susquehanna	Bald Eagle Creek	Clinton	Clinton

Weather Summary

Near the end of the month, a strong albeit slow moving low pressure system traversed the Middle Atlantic Region and dropping heavy rains in the region with Maryland, Virginia, and the Eastern portion of Pennsylvania receiving the largest amounts. Strong and even severe storms were associated with this system prompting the heavy rains and gusty winds in some locations. In Eastern Pennsylvania, rainfall amounts averaged between 2 and 3 inches, with numerous locations reaching up to 4 to 5 inches in 12 hours. Many rivers flooded and caused many evacuations and rescues to occur. Maryland and Virginia suffered significant property damage into the millions from rainfall occurring for nearly 12 hours.

Crest Statistics and Flood Information

First flood of 1 that occurred in Nov, 1993

Tenth flood of 11 that occurred in 1993

Number of Floods at MARFC Forecast Points - 33

Number of Floods Cresting in Minor Range - 17

Number of Floods Cresting in Moderate Range - 12

Number of Floods Cresting in Major Range - 4

Number of Floods Cresting in Missing Range - 0