

# Flood Event of 1/25/1978 - 1/28/1978

## Appomattox

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Farmville	16.00	1/26/1978	21.19	12,300	Moderate	Appomattox	Appomattox River	Cumberland	Prince Edward
Mattoax	21.00	1/28/1978	27.73	14,000	Moderate	Appomattox	Appomattox River	Amelia	Amelia

## Brandywine

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Chadds Ford	9.00	1/26/1978	14.11	15,700	Major	Christina	Brandywine Creek	Delaware	Delaware
Wilmington	11.00	1/26/1978	12.78	17,200	Minor	Christina	Brandywine Creek	New Castle	New Castle

## Chemung

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Tioga Junction	15.00	1/26/1978	17.20	-9,999	Moderate	Chemung	Tioga River	Tioga	Tioga

## Delaware

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Pemberton	2.70	1/27/1978	3.14	1,110	Minor	Delaware	North Branch Rancocas Creek	Burlington	Burlington
Trenton	8.50	1/26/1978	10.55	2,720	Major	Delaware	Assunpink Creek	Mercer	Mercer

## James

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
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Bent Creek	16.00	1/27/1978	18.38	75,400	Minor	James	James River	Nelson	Appomattox
Bremo Bluff	19.00	1/28/1978	29.30	96,100	Moderate	James	James River	Fluvanna	Fluvanna
Buchanan	17.00	1/27/1978	22.31	63,200	Moderate	James	James River	Botetourt	Botetourt
Cartersville	20.00	1/27/1978	25.08	109,000	Moderate	James	James River	Goochland	Cumberland
Covington	17.00	1/26/1978	17.86	19,200	Minor	James	Jackson River below Dunlap Creek	Covington City	Independent City
Holcomb Rock	22.00	1/26/1978	25.59	79,700	Moderate	James	James River	Bedford	Bedford
Lick Run	16.00	1/26/1978	21.66	40,600	Minor	James	James River	Botetourt	Botetourt
Palmyra	17.00	1/26/1978	23.51	20,800	Minor	James	Rivanna River	Fluvanna	Fluvanna
Richmond	12.00	1/28/1978	19.36	122,000	Moderate	James	James River	Henrico	Independent City
Scottsville	20.00	1/27/1978	22.23	88,400	Moderate	James	James River	Albemarle	Albermarle

### Main Stem Susquehanna

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Conowingo	23.50	1/28/1978	25.64	377,000	Moderate	Lower Main Stem Susquehanna	Susquehanna River	Harford	Cecil
Harper Tavern	9.00	1/26/1978	12.47	12,600	Moderate	Swatara	Swatara Creek	Lebanon	Lebanon
Hershey	7.00	1/27/1978	9.19	13,400	Minor	Swatara	Swatara Creek	Dauphin	Dauphin
Lancaster	11.00	1/25/1978	18.14	25,300	Major	Conestoga	Conestoga River	Lancaster	Lancaster
Towanda	16.00	1/27/1978	16.29	97,700	Minor	Upper Main Stem Susquehanna	Susquehanna River	Bradford	Bradford
Tunkhannock	11.00	1/26/1978	11.47	15,500	Minor	Upper Main Stem Susquehanna	Tunkhannock Creek	Wyoming	Wyoming

## Neshaminy

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Langhorne	9.00	1/26/1978	13.05	14,900	Major	Neshaminy	Neshaminy Creek	Bucks	Bucks

## North Branch Susquehanna

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Conklin	11.00	1/27/1978	12.72	25,900	Minor	North Branch Susquehanna	North Branch Susquehanna River	Broome	Broome
Greene	13.00	1/27/1978	14.64	12,300	Minor	North Branch Susquehanna	Chenango River	Chenango	Chenango
Waverly	11.00	1/27/1978	13.49	58,400	Minor	North Branch Susquehanna	North Branch Susquehanna River	Bradford	Tioga

## Passaic

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Lodi	5.00	1/26/1978	6.39	1,980	Minor	Passaic	Saddle River	Bergen	Bergen
Mahwah	8.00	1/26/1978	8.17	2,210	Minor	Passaic	Ramapo River	Bergen	Bergen

## Potomac

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Dawsonville	7.50	1/26/1978	9.96	7,850	Minor	Potomac	Seneca Creek	Montgomery	Montgomery
Frederick	15.00	1/27/1978	20.33	29,100	Major	Potomac	Monocacy River at Jug Bridge	Frederick	Frederick
Great Cacapon	9.00	1/26/1978	15.03	20,200	Minor	Potomac	Cacapon River	Morgan	Morgan
Leesburg	12.00	1/26/1978	14.94	11,700	Minor	Potomac	Goose Creek	Loudoun	Loudoun

Little Falls (Washington DC)	10.00	1/28/1978	10.47	145,000	Minor	Potomac	Potomac River	Montgomery	Montgomery
Martinsburg	10.00	1/26/1978	10.44	3,060	Minor	Potomac	Opequon Creek	Berkeley	Berkeley
Point of Rocks	16.00	1/28/1978	21.22	132,000	Moderate	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	1/26/1978	17.47	14,900	Moderate	Rappahannock	Rapidan River	Culpeper	Culpeper
Remington	15.00	1/27/1978	18.52	21,800	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	1/27/1978	14.02	10,700	Moderate	Raritan	Millstone River	Somerset	Somerset
Bound Brook	28.00	1/26/1978	31.33	30,000	Moderate	Raritan	Raritan River below Calco Dam	Somerset	Somerset
Manville	14.00	1/26/1978	17.77	19,400	Moderate	Raritan	Raritan River	Somerset	Somerset
Stanton	8.00	1/26/1978	9.19	5,560	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	1/26/1978	13.03	21,100	Moderate	Schuylkill	Perkiomen Creek	Montgomery	Montgomery
Philadelphia	11.00	1/26/1978	12.33	64,000	Minor	Schuylkill	Schuylkill River	Philadelphia	Philadelphia
Pottstown	13.00	1/26/1978	15.41	32,800	Minor	Schuylkill	Schuylkill River	Montgomery	Montgomery

Reading	13.00	1/26/1978	13.51	25,800	Minor	Schuylkill	Schuylkill River	Berks	Berks
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### Shenandoah

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Front Royal	12.00	1/27/1978	14.13	32,000	Moderate	Shenandoah	Shenandoah River	Warren	Warren
Lynnwood	16.00	1/26/1978	16.74	22,700	Minor	Shenandoah	Shenandoah River	Rockingham	Rockingham
Millville	13.50	1/27/1978	15.08	48,000	Moderate	Shenandoah	Shenandoah River	Jefferson	Jefferson
Strasburg	17.00	1/27/1978	17.21	17,800	Minor	Shenandoah	North Fork Shenandoah River	Warren	Shenandoah

### South Branch Potomac

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Franklin	7.00	1/26/1978	9.15	10,100	Moderate	South Branch Potomac	South Branch Potomac River	Pendleton	Pendleton
Petersburg	10.00	1/26/1978	13.93	23,600	Moderate	South Branch Potomac	South Branch Potomac River	Grant	Grant
Springfield	15.00	1/27/1978	17.21	27,500	Minor	South Branch Potomac	South Branch Potomac River	Hampshire	Hampshire

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## Weather Summary

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A historic storm, known as the Cleveland Super Bomb, pummeled the northeastern United States in late January 1978. A low pressure system emerged into the Great Lakes region from central Canada on the 25th. The low then underwent explosive deepening, with pressure falls of 40mb in 24 hours, as it interacted with two merging jet streaks. The central pressure of the system dropped to near 950mb and Cleveland reported pressure of 28.28", the lowest pressure on record for the city. Meanwhile, the intense storm produced high winds and dumped heavy rain and snow across the Mid-Atlantic. Even a freak tornado hit Quantico, VA during the morning of the 26th. At least six inches of snow was already covering the ground in the Mid-Atlantic before the arrival of the storm. Therefore, the 1.00 - 4.00 inches of rain that fell in New Jersey, Virginia, Maryland, Pennsylvania, New York and West Virginia caused significant widespread flooding.

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## Crest Statistics and Flood Information

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Third flood of 3 that occurred in Jan, 1978

Third flood of 16 that occurred in 1978

Number of Floods at MARFC Forecast Points - 53

Number of Floods Cresting in Minor Range - 27

Number of Floods Cresting in Moderate Range - 21

Number of Floods Cresting in Major Range - 5

Number of Floods Cresting in Missing Range - 0