

November 24 - December 5, 2018 Preliminary Flood Summary

Delaware	Above FS (ft)	Crest (ft)	Streamflow (cfs)	Below FS (ft)	Category (ft)	Record (ft) - (cfs)
<u>Pemberton, New Jersey - (PEBN4)</u>	Flood = 2.5	3.03	1,060	Flood = 2.5	2.5 (minor)	4.91
North Branch Rancocas Creek - (WFO PHI)	11/25/2018	November 27, 2018 8:00:00 EST		11/30/2018	3.5 (moderate)	2,400
Gage & Town/Burlington County	4:30			3:20	4.2 (major)	August 29, 2011
<u>Trenton, New Jersey - (TACN4)</u>	Flood = 8.5	9.94	2,770	Flood = 8.5	8.5 (minor)	15.12
Assunpink Creek - (WFO PHI)	11/25/2018	November 25, 2018 8:20:00 EST		11/25/2018	9.5 (moderate)	missing
Gage & Town/Mercer County	1:40			12:15	11.0 (major)	August 29, 2011
Passaic	Above FS (ft)	Crest (ft)	Streflow (cfs)	Below FS (ft)	Category (ft)	Record (ft) - (cfs)
<u>Boonton, NJ (below reservoir)</u>	Flood = 5.0	5.07	1,410	Flood = 5.0	5.0 (minor)	9.73
Rockaway River - (WFO PHI) - (BONN4)	11/25/2018	November 25, 2018 22:45:00 EST		11/26/2018	7.0 (moderate)	6,140
Gage & Town/Morris County	19:15			3:05	8.0 (major)	August 28, 2011
<u>Boonton, NJ (below reservoir)</u>	Flood = 5.0	5.14	1,460	Flood = 5.0	5.0 (minor)	9.73
Rockaway River - (WFO PHI) - (BONN4)	11/27/2018	November 27, 2018 15:15:00 EST		11/27/2018	7.0 (moderate)	6,140
Gage & Town/Morris County	7:30			23:45	8.0 (major)	August 28, 2011
<u>Little Falls, New Jersey - (LTFN4)</u>	Flood = 7.0	7.18	6,860	Flood = 7.0	7.0 (minor)	17.50
Passaic River - (WFO PHI)	11/27/2018	November 28, 2018 7:00:00 EST		11/29/2018	8.0 (moderate)	31,700
Gage & Town/Passaic County	19:45			5:20	9.0 (major)	October 10, 1903
<u>Pine Brook, New Jersey - (PINN4)</u>	Flood = 19.0	20.03	9,999	Flood = 19.0	19.0 (minor)	24.12
Passaic River - (WFO PHI)	11/25/2018	November 28, 2018 10:00:00 EST		12/5/2018	20.0 (moderate)	9,750
Gage & Town/Morris County	23:30			1:45	21.0 (major)	August 30, 2011

Potomac	Above FS (ft)	Crest (ft)	Streflow (cfs)	Below FS (ft)	Category (ft)	Record (ft) - (cfs)
Dawsonville, Maryland - (DAWM2)	Flood = 7.5	8.15	2,790	Flood = 7.5	7.5 (minor)	16.40
Seneca Creek - (WFO LWX)	11/24/2018	November 24, 2018 20:10:00 EST		E11/24/2018	11.0 (moderate)	26,100
Gage & Town/Montgomery County	18:35			E22:30:00	16.0 (major)	June 22, 1972
Frederick, Maryland - (FDKM2)	Flood = 15.0	15.57	16,600	Flood = 15.0	15.0 (minor)	35.90
Monocacy River - (WFO LWX)	11/25/2018	November 25, 2018 13:45:00 EST		11/25/2018	17.0 (moderate)	81,600
Gage & Town/Frederick County	8:35			17:10	20.0 (major)	June 23, 1972
Martinsburg, West Virginia - (MBGW2)	Flood = 10.0	10.32	2,680	Flood = 10.0	10.0 (minor)	18.76
Opequon Creek - (WFO LWX)	11/25/2018	November 25, 2018 9:50:00 EST		11/25/2018	12.5 (moderate)	23,400
Gage & Town/Berkeley County	6:25			12:05	15.0 (major)	January 20, 1996
Raritan	Above FS (ft)	Crest (ft)	Streflow (cfs)	Below FS (ft)	Category (ft)	Record (ft) - (cfs)
Blackwells Mills, New Jersey - (BKWN4)	Flood = 9.0	11.98	6,780	Flood = 9.0	9.0 (minor)	21.24
Millstone River - (WFO PHI)	11/25/2018	November 25, 2018 22:00:00 EST			10.0 (moderate)	20,700
Gage & Town/Somerset County	8:15				15.0 (major)	August 28, 2011
Blackwells Mills, New Jersey - (BKWN4)	Flood = 9.0	10.04	4,750	Flood = 9.0	9.0 (minor)	21.24
Millstone River - (WFO PHI)		November 27, 2018 2:15:00 EST		11/27/2018	10.0 (moderate)	20,700
Gage & Town/Somerset County				20:05	15.0 (major)	August 28, 2011
Bound Brook, New Jersey - (BDKN4)	Flood = 28.0	29.65	22,000	Flood = 28.0	28.0 (minor)	42.13
Raritan River - (WFO PHI)	11/25/2018	November 25, 2018 18:15:00 EST		11/26/2018	30.0 (moderate)	82,900
Gage & Town/Somerset County	12:10			1:00	33.0 (major)	September 17, 1999
Manville, New Jersey - (MNVN4)	Flood = 14.0	16.12	17,200	Flood = 14.0	14.0 (minor)	27.10
Raritan River - (WFO PHI)	11/25/2018	November 25, 2018 16:00:00 EST		11/25/2018	17.0 (moderate)	77,600
Gage & Town/Somerset County	10:25			22:30	20.0 (major)	September 16, 1999
Raritan, New Jersey - (RRTN4)	Flood = 10.0	10.50	7,210	Flood = 10.0	10.0 (minor)	18.98
North Branch Raritan River - (WFO PHI)	11/25/2018	November 25, 2018 10:30:00 EST		11/25/2018	12.0 (moderate)	29,000
Gage & Town/Somerset County	7:20			12:25	15.0 (major)	September 16, 1999
Stanton, New Jersey - (STTN4)	Flood = 8.0	9.15	5,710	Flood = 8.0	8.0 (minor)	15.22
South Branch Raritan River - (WFO PHI)	11/25/2018	November 25, 2018 5:20:00 EST		11/25/2018	10.0 (moderate)	18,000
Gage & Town/Hunterdon County	1:45			10:00	12.0 (major)	August 19, 1955

Southeast PA & Delaware	Above FS (ft)	Crest (ft)	Streflow (cfs)	Below FS (ft)	Category (ft)	Record (ft) - (cfs)
Chadds Ford, Pennsylvania - (CDFP1)	Flood = 9.0	9.93	6,490	Flood = 9.0	9.0 (minor)	17.15
Brandywine Creek/Christina Basin - (WFO PHI)	11/25/2018	November 25, 2018 10:30:00 EST		11/25/2018	11.0 (moderate)	26,900
Gage & Town/Delaware County	4:25			13:45	13.0 (major)	September 17, 1999
Langhorne, Pennsylvania - (LNGP1)	Flood = 9.0	11.92	10,600	Flood = 9.0	9.0 (minor)	22.84
Neshaminy Creek - (WFO PHI)	11/25/2018	November 25, 2018 7:30:00 EST		11/25/2018	12.0 (moderate)	49,300
Gage & Town/Bucks County	1:10			12:35	14.0 (major)	August 19, 1955
Norristown, Pennsylvania - (NRSP1)	Flood = 13.0	13.72	34,200	Flood = 13.0	13.0 (minor)	25.10
Schuylkill River - (WFO PHI)	11/25/2018	November 25, 2018 6:00:00 EST		11/25/2018	17.0 (moderate)	not available
Gage & Town/Montgomery County	2:55			12:10	19.0 (major)	June 23, 1972

Crest Statistics

Flooding - 11/24/2018 - 12/5/2018
 Crests - 11/24/2018 - 11/28/2018
 Fourth flood of 4 - November, 2018
 32nd flood in 2018
 Number of MARFC Forecast Points Flooding - **18**
 Number of Floods Cresting in **Minor** Range - 14
 Number of Floods Cresting in **Moderate** Range - 4
 Number of Floods Cresting in **Major** Range - 0
 Number of Floods Cresting in **Missing** Range - 0
MARFC Power Ranking - 34 (Minor = 1 - Moderate = 5 - Major = 10 - Missing =1)
 Number of MARFC records - 0
 E = Estimated

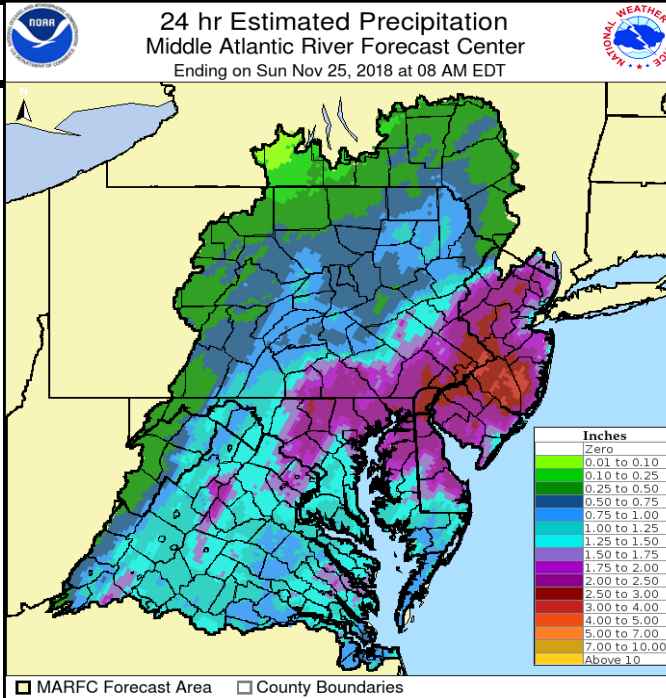
Weather Summary

Strong low pressure brought heavy rain to much of the Mid-Atlantic, particularly concentrated in New Jersey, November 24 into 25. This was quickly followed up by a second low pressure system November 26 into 27 that again brought heavy rain, though not quite as extreme, to New Jersey. This double whammy served to prolong the flood event by bringing additional rises and adding more water to the already swollen streams and rivers of New Jersey. A third weather system December 1 and 2 brought modest rain amounts, but served to delay Pine Brook from from its' eventual fall below flood stage.

TOP 24-HOUR PRECIPITATION AMOUNTS (Liquid Equivalent and in inches)

11/24/2018 (12 Z) - 11/25/2018 (12 Z)
Amount Location County State

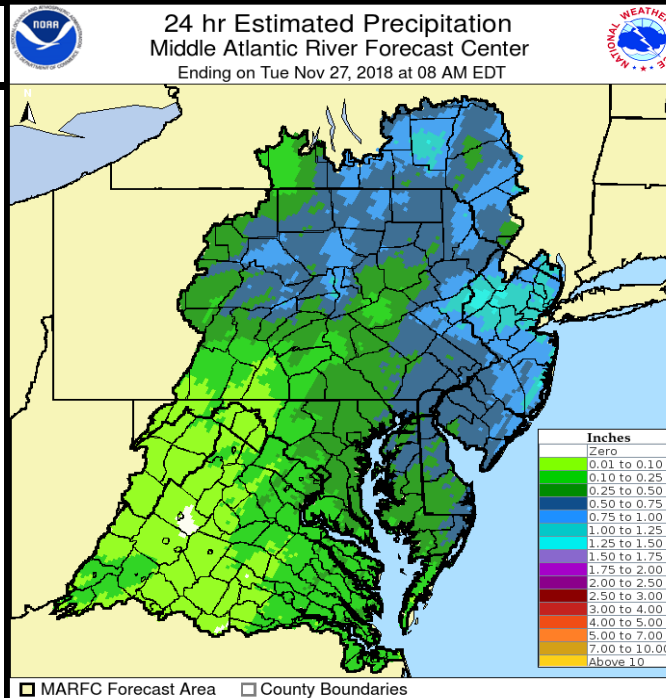
- 3.85 Jackson, NJ Ocean
- 3.46 Spruce Run, NJ Hunterdon
- 3.45 Howell Twp., NJ Monmouth
- 3.39 Wrightstown, NJ Burlington
- 3.31 Jackson Twp., NJ Ocean
- 2.99 Medford Lakes, NJ Burlington
- 2.98 Ewing Twp., NJ Mercer
- 2.98 Lawrence Twp., NJ Mercer
- 2.97 Folsom, NJ Atlantic
- 2.87 Marlton, NJ Burlington
- 2.87 Mt Laurel Twp., NJ Burlington
- 2.86 Atlantic City, NJ Atlantic
- 2.85 Egg Harbor Twp., NJ Atlantic
- 2.83 Folsom, NJ Atlantic
- 2.81 Hightstown, NJ Mercer



TOP 24-HOUR PRECIPITATION AMOUNTS (Liquid Equivalent and in inches)

11/26/2018 (12 Z) - 11/27/2018 (12 Z)
Amount Location County State

- 1.97 Phoenicia, NY Ulster
- 1.71 Long Branch, NJ Monmouth
- 1.68 Manasquan, NJ Monmouth
- 1.65 Ocean Twp., NJ Monmouth
- 1.64 East Jewitt, NY Greene
- 1.63 Brick Twp., NJ Ocean
- 1.54 Ashoken, NY Ulster
- 1.53 Oceanport, NJ Monmouth
- 1.50 Claryville, NY Ulster
- 1.50 Wall Twp., NJ Monmouth
- 1.41 Spruce Run, NJ Hunterdon
- 1.38 Little Falls Twp., NJ Passaic
- 1.35 Sea Girt, NJ Monmouth
- 1.28 Harrison, NJ Hudson
- 1.26 Flatbrookville, NJ Sussex



Floods by MARFC Basins						
MARFC Basins	Fcst Points	Minor	Moderate	Major	Unknown	Mod & Major
Appomattox	0	0	0	0	0	0
Chemung	0	0	0	0	0	0
Delaware	2	1	1	0	0	1
James	0	0	0	0	0	0
Juniata	0	0	0	0	0	0
Lehigh	0	0	0	0	0	0
Lower Main Stem Susquehanna	0	0	0	0	0	0
North Branch Susquehanna	0	0	0	0	0	0
Passaic	4	3	1	0	0	1
Potomac	3	3	0	0	0	0
Rappahannock	0	0	0	0	0	0
Raritan	6	4	2	0	0	2
SE PA and Delaware (state)	3	3	0	0	0	0
Shenandoah	0	0	0	0	0	0
Upper Main Stem Susquehanna	0	0	0	0	0	0
West Branch Susquehanna	0	0	0	0	0	0
Floods by NWS Weather Forecast Offices						
Forecast Office	Fcst Points	Minor	Moderate	Major	Unknown	Mod & Major
Blacksburg, VA (RNK)	0	0	0	0	0	0
Binghamton, NY (BGM)	0	0	0	0	0	0
Brookhaven, NY (OKX)	0	0	0	0	0	0
Philadelphia, PA (PHI)	15	11	4	0	0	4
State College, PA (CTP)	0	0	0	0	0	0
Sterling, VA (LWX)	3	3	0	0	0	0
Wakefield, VA (AKQ)	0	0	0	0	0	0