

August 13 - August 16, 2018 Preliminary Flood Summary

Southeast PA & Delaware	Above FS (ft)	Crest (ft)	Streflow (cfs)	Below FS (ft)	Category (ft)	Record (ft) - (cfs)
<u>Berne, Pennsylvania - (BREP1)</u>	Flood = 12.0	12.91	14,800	Flood = 12.0	12.0 (minor)	19.00
Schuylkill River - (WFO PHI)	8/13/2018	August 13, 2018 21:30:00 EST		8/14/2018	14.0 (moderate)	42,800
Gage & Town/Berks County	16:00			2:35	16.0 (major)	June 22, 1972
<u>Chadds Ford, Pennsylvania - (CDFP1)</u>	Flood = 9.0	11.41	8,380	Flood = 9.0	9.0 (minor)	17.15
Brandywine Creek/Christina Basin - (WFO PHI)	8/13/2018	August 13, 2018 21:45:00 EST		8/14/2018	11.0 (moderate)	26,900
Gage & Town/Delaware County	16:30			4:35	13.0 (major)	September 17, 1999
<u>Graterford, Pennsylvania - (GRAP1)</u>	Flood = 11.0	11.39	15,400	Flood = 11.0	11.0 (minor)	18.26
Perkiomen Creek - (WFO PHI)	8/13/2018	August 13, 2018 17:30:00 EST		8/13/2018	13.0 (moderate)	39,900
Gage & Town/Montgomery County	15:20			19:20	16.0 (major)	July 9, 1935
<u>Norristown, Pennsylvania - (NRSP1)</u>	Flood = 13.0	15.07	44,000	Flood = 13.0	13.0 (minor)	25.10
Schuylkill River - (WFO PHI)	8/13/2018	August 13, 2018 22:45:00 EST		8/14/2018	17.0 (moderate)	not available
Gage & Town/Montgomery County	14:10			8:15	19.0 (major)	June 23, 1972
<u>Pottstown, Pennsylvania - (PTNP1)</u>	Flood = 12.5	12.69	22,800	Flood = 12.5	12.5 (minor)	29.97
Schuylkill River - (WFO PHI)	8/13/2018	August 13, 2018 15:30:00 EST		8/13/2018	18.0 (moderate)	95,900
Gage & Town/Montgomery County	13:50			16:30	22.0 (major)	June 23, 1972
<u>Pottstown, Pennsylvania - (PTNP1)</u>	Flood = 12.5	12.94	23,500	Flood = 12.5	12.5 (minor)	29.97
Schuylkill River - (WFO PHI)	8/14/2018	August 14, 2018 10:00:00 EST		8/14/2018	18.0 (moderate)	95,900
Gage & Town/Montgomery County	5:40			13:30	22.0 (major)	June 23, 1972
<u>Wilmington, Delaware - (WMND1)</u>	Flood = 16.5	16.62	9,310	Flood = 16.5	16.5 (minor)	20.70
Brandywine Creek/Christina Basin - (WFO PHI)	8/14/2018	August 14, 2018 01:15:00 EST		8/14/2018	18.0 (moderate)	missing
Gage & Town/New Castle County	0:00			5:10	19.0 (major)	May 1, 2014
Susquehanna (Lower Main Stem)	Above FS (ft)	Crest (ft)	Streflow (cfs)	Below FS (ft)	Category (ft)	Record (ft) - (cfs)
<u>Harper Tavern, Pennsylvania - (HTVP1)</u>	Flood = 9.0	13.43	13,000	Flood = 9.0	9.0 (minor)	25.60
Swatara Creek - (WFO CTP)	8/13/2018	August 14, 2018 3:30:00 EST		8/14/2018	12.0 (moderate)	88,000
Gage & Town/Lebanon County	8:40			14:25	15.0 (major)	June 1, 1889
<u>Hershey, Pennsylvania - (HERP1)</u>	Flood = 7.0	9.24	12,600	Flood = 7.0	7.0 (minor)	27.22
Swatara Creek - (WFO CTP)	8/13/2018	August 14, 2018 12:15:00 EST		8/14/2018	10.0 (moderate)	96,900
Gage & Town/Dauphin County	20:00			22:05	14.0 (major)	September 8, 2011

Susquehanna Basin (North Branch)	Above FS (ft)	Crest (ft)	Streflow (cfs)	Below FS (ft)	Category (ft)	Record (ft) - (cfs)
Conklin, New York - (CKLN6)	Flood = 12.0	16.15	37,800	Flood = 12.0	12.0 (minor)	25.02
Susquehanna River (North BR) - (WFO BGM)	8/14/2018	August 14, 2018		8/14/2018	15.0 (moderate)	76,800
Gage & Town/Broome County	8:05	12:15:00 EST		18:00	20.0 (major)	June 28, 2006
Conklin, New York - (CKLN6)	Flood = 12.0	15.84	36,600	Flood = 12.0	12.0 (minor)	25.02
Susquehanna River (North BR) - (WFO BGM)	8/14/2018	August 15, 2018		8/15/2018	15.0 (moderate)	76,800
Gage & Town/Broome County	19:40	00:55:00 EST		7:00	20.0 (major)	June 28, 2006
Vestal, New York - (VSTN6)	Flood = 18.0	21.56	56,000	Flood = 18.0	18.0 (minor)	35.26
Susquehanna River - (North BR) - (WFO BGM)	8/14/2018	August 15, 2018		8/15/2018	21.0 (moderate)	129,000
Gage & Town/Broome County	12:05	3:00:00 EST		12:05	27.0 (major)	September 8, 2011
Waverly, New York - (WVYN6)	Flood = 13.0	15.37	71,000	Flood = 13.0	13.0 (minor)	26.67
Susquehanna River (North BR) - (WFO BGM)	8/14/2018	August 15, 2018		8/15/2018	16.0 (moderate)	167,000
Gage/Bradford Co, PA - Town/Tioga Co, NY	17:10	4:40:00 EST		17:00	20.0 (major)	September 8, 2011
Susquehanna Basin (Upper Main Stem)	Above FS (ft)	Crest (ft)	Streflow (cfs)	Below FS (ft)	Category (ft)	Record (ft) - (cfs)
Bloomsburg, Pennsylvania - (BMBP1)	Flood = 19.0	22.74	179,000	Flood = 19.0	19.0 (minor)	32.75
Susquehanna River - (WFO CTP)	8/15/2018	August 15, 2018		8/16/2018	22.0 (moderate)	missing
Gage & Town/Columbia County	1:45	19:20:00 EST		15:05	28.0 (major)	September 9, 2011
Danville, Pennsylvania - (DANP1)	Flood = 20.0	22.29	172,000	Flood = 20.0	20.0 (minor)	32.16
Susquehanna River - (WFO CTP)	8/15/2018	August 15, 2018		8/16/2018	23.0 (moderate)	363,000
Gage & Town/Montour County	6:35	23:35:00 EST		15:50	30.0 (major)	June 25, 1972
Meshoppen, Pennsylvania - (MHPP1)	Flood = 27.0	31.03	144,000	Flood = 27.0	27.0 (minor)	44.48
Susquehanna River - (WFO BGM)	8/14/2018	August 15, 2018		8/15/2018	31.0 (moderate)	293,000
Gage & Town/Wyoming County	15:20	00:45:00 EST		22:35	40.0 (major)	September 8, 2011
Monroeton, Pennsylvania - (MONP1)	Flood = 15.5	16.87	14,300	Flood = 15.5	15.5 (minor)	20.97
Towanda Creek - (WFO BGM)	8/13/2018	August 13, 2018		8/13/2018	17.0 (moderate)	64,200
Gage & Town/Bradford County	14:15	17:45:00 EST		22:10	18.5 (major)	September 8, 2011
Monroeton, Pennsylvania - (MONP1)	Flood = 15.5	17.31	15,500	Flood = 15.5	15.5 (minor)	20.97
Towanda Creek - (WFO BGM)	8/14/2018	August 14, 2018		8/14/2018	17.0 (moderate)	64,200
Gage & Town/Bradford County	8:05	9:15:00 EST		12:15	18.5 (major)	September 8, 2011

<u>Old Forge, Pennsylvania - (OFRP1)</u>	Flood = 11.0	14.44	19,100	Flood = 11.0	11.0 (minor)	20.05
Lackawanna River - (WFO BGM)	8/13/2018	August 13, 2018 23:15:00 EST		8/14/2018	13.0 (moderate)	31,000
Gage & Town/Lackawanna County	20:10			4:40	16.0 (major)	August 19, 1955
<u>Towanda, Pennsylvania - (TOWP1)</u>	Flood = 16.0	16.25	99,900	Flood = 16.0	16.0 (minor)	33.43
Susquehanna River - (WFO BGM)	8/15/2018	August 15, 2018 9:45:00 EST		8/15/2018	18.0 (moderate)	320,000
Gage & Town/Bradford County	6:00			13:05	25.1 (major)	June 24, 1972
<u>Tunkhannock, Pennsylvania - (TNKP1)</u>	Flood = 11.0	15.45	25,100	Flood = 11.0	11.0 (minor)	20.90
Tunkhannock Creek - (WFO BGM)	8/14/2018	August 14, 2018 8:15:00 EST		8/14/2018	14.0 (moderate)	39,500
Gage & Town/Wyoming County	0:08			20:40	17.0 (major)	June 28, 2006
<u>Tunkhannock, Pennsylvania - (TNKP1)</u>	Flood = 11.0	14.37	21,800	Flood = 11.0	11.0 (minor)	20.90
Tunkhannock Creek - (WFO BGM)	8/14/2018	August 15, 2018 8:15:00 EST		8/15/2018	14.0 (moderate)	39,500
Gage & Town/Wyoming County	23:30			14:15	17.0 (major)	June 28, 2006
<u>Wilkes-Barre, Pennsylvania - (WBRP1)</u>	Flood = 22.0	28.77	180,000	Flood = 22.0	22.0 (minor)	42.66
Susquehanna River - (WFO BGM)	8/14/2018	August 15, 2018 10:15:00 EST		8/16/2018	28.0 (moderate)	missing
Gage & Town/Luzerne County	17:55			10:10	30.0 (major)	September 9, 2011

Crest Statistics

Flooding - 08/13/2018 - 08/16/2018
 Crests - 08/13/2018 - 08/15/2018
 Third flood of 6 - August, 2018
 Nineteenth flood in 2018
 Number of MARFC Forecast Points Flooding - **23**
 Number of Floods Cresting in **Minor** Range - 11
 Number of Floods Cresting in **Moderate** Range - 12
 Number of Floods Cresting in **Major** Range - 0
 Number of Floods Cresting in **Missing** Range - 0
MARFC Power Ranking - 71 (Minor = 1 - Moderate = 5 - Major = 10 - Missing =1)
 Number of MARFC records - 0
 E = Estimated

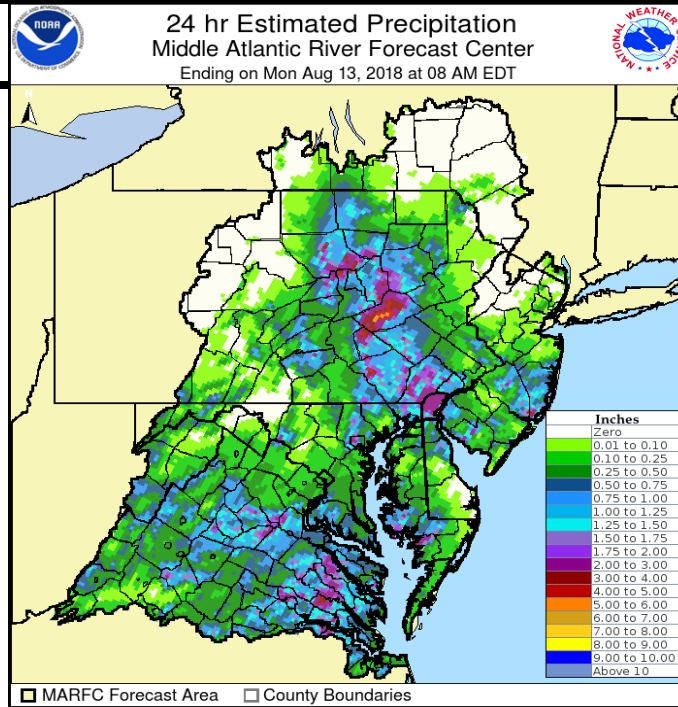
Weather Summary

A slow moving upper level low pressure system moved very slowly through the Mid-Atlantic. This low streamed Atlantic moisture repeatedly over the same general geographic area causing widespread flash flooding and river flooding.

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

8/12/2018 (12 Z) - 8/13/20187 (12 Z)
Amount Location County State

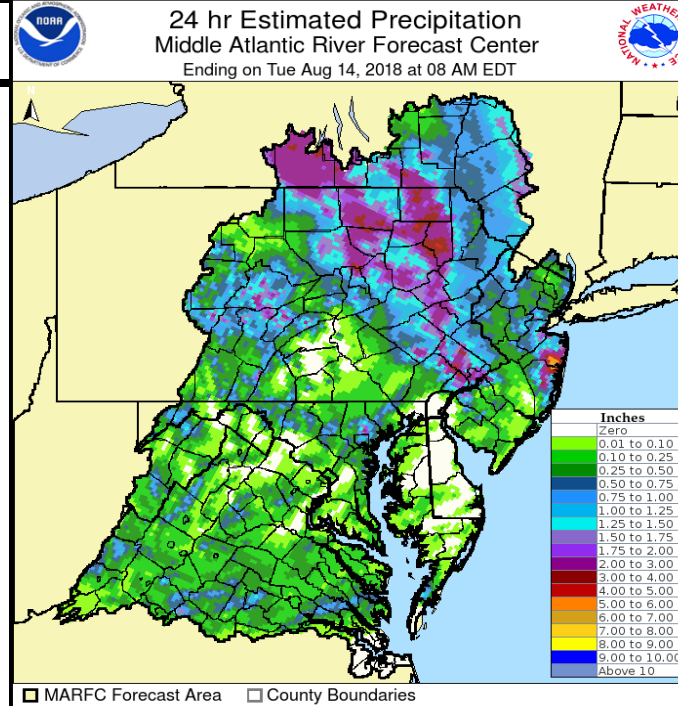
- 4.10 Coatesville, PA Chester
- 3.13 Newark, DE New Castle
- 3.12 Baltimore, MD Baltimore
- 3.04 Newark, DE New Castle
- 2.97 Muncy, PA Lycoming
- 2.81 Brick Twp, NJ Ocean
- 2.79 Lancaster, PA Lancaster
- 2.73 Glen Allen, VA Henrico
- 2.62 Mohnton, PA Berks
- 2.26 Patuxent River, MD St. Marys
- 2.19 Mahanoy City, PA Schuylkill
- 2.08 Carlisle, PA Cumberland
- 2.01 Wilmington, DE New Castle
- 1.97 Oswego Lake, NJ Burlington
- 1.96 Pequea, PA Lancaster



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Amount Location County State

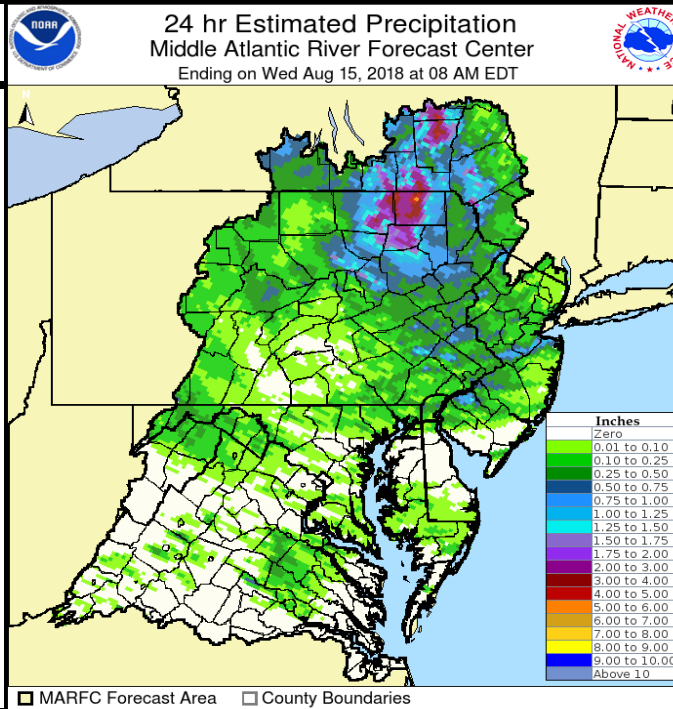
- 8.76 Dundee, NY Shuyler
- 6.33 Lakewood, NJ Ocean
- 5.56 Brick, Twp, NJ Ocean
- 5.36 Belmar, NJ Monmouth
- 4.45 Manasquan, NJ Monmouth
- 4.23 Schnecksville, PA Lehigh
- 4.16 Avoca (Scranton/Wilkes-Barre Apt), PA Luzerne
- 4.15 Elmira, NY Chemung
- 4.02 Walnutport, PA Northampton
- 3.92 Howell Twp, NJ Monmouth
- 3.82 Mecklenberg, NY Schuyler
- 3.64 Ocean Twp, NJ Monmouth
- 3.52 Tunkhannock, PA Wyoming
- 3.45 Valley Forge, PA Chester
- 3.45 Hamburg, PA Berks



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

8/14/2018 (12 Z) - 8/15/2018 (12 Z)
Amount Location County State

6.19	Earlville, NY	Madison	
4.77	Earlville, NY	Madison	
3.86	New Milford, PA	Susquehanna	
3.19	Sherburne, NY	Chenango	
3.06	Towanda, PA	Bradford	
2.89	Willet, NY	Cortland	
2.54	Conklin, NY	Broome	
2.52	Owego, NY	Tioga	
2.52	Otisville, NY	Orange	
2.27	Cazenovia, NY	Madison	
2.16	Norwich, NY	Chenango	
2.10	Apalachin, NY	Tioga	
2.02	Hop Bottom, PA	Susquehanna	
2.00	Sherburne, NY	Chenango	
1.95	Loyalsockville, PA	Lycoming	



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	0	0	0	0	0	0
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	2	1	1	0	0	1
North Branch Susquehanna	4	1	3	0	0	3
Passaic	0	0	0	0	0	0
Potomac	0	0	0	0	0	0
Rappahannock	0	0	0	0	0	0
Raritan	0	0	0	0	0	0
SE PA and Delaware (state)	7	6	1	0	0	1
Shenandoah	0	0	0	0	0	0
Upper Main Stem Susquehanna	10	3	7	0	0	7
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)	12	3	9	0	0	9
Brookhaven, NY (OKX)	0	0	0	0	0	0
Philadelphia, PA (PHI)	7	6	1	0	0	1
State College, PA (CTP)	4	2	2	0	0	2
Sterling, VA (LWX)	0	0	0	0	0	0
Wakefield, VA (AKQ)	0	0	0	0	0	0