

September 9 - September 13, 2018 Preliminary Flood Summary

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Juniata Basin	Above FS (ft)	Crest (ft)	Streflow (cfs)	Below FS (ft)	Category (ft)	Record (ft) - (cfs)
<u>Huntingdon, Pennsylvania - (HUJP1)</u>	Flood = 12.0	14.94	32,000	Flood = 12.0	12.0 (minor)	22.50
Juniata River - (WFO CTP)	9/10/2018	September 11, 2018 1:45:00 EST		9/11/2018	13.0 (moderate)	not available
Gage & Town/Huntingdon County	9:25			15:50	15.0 (major)	June 1, 1889
<u>Lewistown, Pennsylvania - (LWSP1)</u>	Flood = 23.0	23.00	44,600	Flood = 23.0	23.0 (minor)	43.30
Juniata River - (WFO CTP)	9/11/2018	September 11, 2018 11:30:00 EST		9/11/2018	27.0 (moderate)	NA
Gage & Town/Mifflin County	11:00			12:00	28.0 (major)	6/1/1889
<u>Shirleysburg, Pennsylvania - (SLYP1)</u>	Flood = 10.0	12.69	10,100	Flood = 10.0	10.0 (minor)	19.46
Aughwick Creek - (WFO CTP)	9/10/2018	September 10, 2018 15:45:00 EST		9/11/2018	12.0 (moderate)	44,400
Gage & Town/Huntingdon County	1:00			5:55 AM	20.0 (major)	January 19, 1996
<u>Spruce Creek, Pennsylvania - (SPKP1)</u>	Flood = 8.0	12.18	13,000	Flood = 8.0	8.0 (minor)	19.10
Little Juniata River - (WFO CTP)	9/10/2018	September 10, 2018 18:30:00 EST		9/11/2018	10.0 (moderate)	39,800
Gage & Town/Huntingdon County	3:45			12:10	14.0 (major)	March 18, 1936
<u>Williamsburg, Pennsylvania - (WIBP1)</u>	Flood = 12.0	16.98	14,400	Flood = 12.0	12.0 (minor)	19.46
Frankstown Branch Juniata River - (WFO CTP)	9/9/2018	September 10, 2018 19:00:00 EST		9/11/2018	13.0 (moderate)	18,000
Gage & Town/Blair County	19:35			16:45	15.0 (major)	September 18, 2004
Potomac	Above FS (ft)	Crest (ft)	Streflow (cfs)	Below FS (ft)	Category (ft)	Record (ft) - (cfs)
<u>Cumberland, Maryland - (CBEM2)</u>	Flood = 17.0	18.51	25,100	Flood = 17.0	17.0 (minor)	29.20
North Branch Potomac River - (WFO LWX)	9/9/2018	September 9, 2018 23:45:00 EST		9/10/2018	21.0 (moderate)	89,000
Gage & Town/Alleghany County	17:05			12:45	23.0 (major)	June 1, 1889
<u>Cumberland, Maryland - (CWCM2)</u>	Flood = 10.0	11.57	12,100	Flood = 10.0	10.0 (minor)	23.11
Wills Creek - (WFO LWX)	9/9/2018	September 9, 2018 16:45:00 EST			12.0 (moderate)	45,900
Gage & Town/Alleghany County	12:30				14.0 (major)	January 19, 1996
<u>Cumberland, Maryland - (CWCM2)</u>	Flood = 10.0	11.02	10,900	Flood = 10.0	10.0 (minor)	23.11
Wills Creek - (WFO LWX)		September 10, 2018 6:00:00 EST		9/10/2018	12.0 (moderate)	45,900
Gage & Town/Alleghany County				13:50	14.0 (major)	January 19, 1996
<u>Edwards Ferry, Maryland - (EDFM2)</u>	Flood = 15.0	20.31	M	Flood = 10.0	15.0 (minor)	22.42
Potomac River - (WFO LWX)	9/10/2018	September 11, 2018 10:15:00 EST		9/12/2018	17.0 (Moderate)	not available
Gage & Town/Montgomery County	11:00			13:05	24.0 (major)	June 4, 2018

<u>Fairview, Maryland - (FAVM2)</u>	Flood = 10.0	12.49	10,300	Flood = 10.0	10.0 (minor)	24.50
Conococheague CK - (WFO LWX)	9/9/2018	September 10, 2018 18:45:00 EST		9/11/2018	12.0 (Moderate)	32,400
Gage & Town/Washington County	18:10			13:45	15.0 (major)	June 23, 1972
<u>Frederick, Maryland - (FDKM2)</u>	Flood = 15.0	21.36	29,100	Flood = 15.0	15.0 (minor)	35.90
Monocacy River - (WFO LWX)	9/9/2018	September 10, 2018 15:45:00 EST		9/11/2018	17.0 (moderate)	81,600
Gage & Town/Frederick County	17:25			10:30	20.0 (major)	June 23, 1972
<u>Great Cacapon, West Virginia - (GCPW2)</u>	Flood = 9.0	9.33	7,510	Flood = 9.0	9.0 (minor)	30.10
Cacapon River - (WFO LWX)	9/10/2018	September 10, 2018 11:00:00 EST		9/10/2018	16.0 (moderate)	87,600
Gage & Town/Morgan County	6:55			20:15	20.0 (major)	March 18, 1936
<u>Little Falls, Maryland - (BRKM2)</u>	Flood = 10.0	10.85	144,000	Flood = 10.0	10.0 (minor)	28.10
Potomac River - (WFO LWX)	9/10/2018	September 11, 2018 12:10:00 EST		9/12/2018	12.0 (moderate)	484,000
Gage & Town/Montgomery County	23:25			1:50	14.0 (major)	March 19, 1936
<u>Martinsburg, West Virginia - (MBGW2)</u>	Flood = 10.0	12.89	5,230	Flood = 10.0	10.0 (minor)	18.76
Opequon Creek - (WFO LWX)	9/9/2018	September 10, 2018 7:15:00 EST		9/11/2018	12.5 (moderate)	23,400
Gage & Town/Berkeley County	17:25			2:15	15.0 (major)	January 20, 1996
<u>Point of Rocks, Maryland - (PORM2)</u>	Flood = 16.0	19.92	121,000	Flood = 16.0	16.0 (minor)	41.03
Potomac River - (WFO LWX)	9/10/2018	September 11, 2018 7:30:00 EST		9/12/2018	20.0 (moderate)	480,000
Gage & Town/Frederick County	13:50			0:45	25.0 (major)	March 19, 1936
Shepherdstown, West Virginia	Flood = 15.0	21.33	96,600	Flood = 15.0	15.0 (minor)	42.07
Potomac River - (WFO LWX) - (SHEW2)	9/10/2018	September 11, 2018 7:15:00 EST		9/12/2018	18.0 (moderate)	335,000
Gage & Town/Jefferson County	4:00			5:55	22.0 (major)	March 19, 1936
Susquehanna (Lower Main Stem)	Above FS (ft)	Crest (ft)	Streflow (cfs)	Below FS (ft)	Category (ft)	Record (ft) - (cfs)
<u>Camp Hill, Pennsylvania - (CPHP1)</u>	Flood = 7.0	7.50	2,760	Flood = 7.0	7.0 (minor)	18.77
Yellow Breeches Creek - (WFO CTP)	9/9/2018	September 10, 2018 12:55:00 EST		9/11/2018	9.0 (moderate)	19,300
Gage & Town/Cumberland County	23:35			9:15	13.0 (major)	September 26, 1975
<u>Hogestown, Pennsylvania - (HGSP1)</u>	Flood = 8.0	9.12	7,800	Flood = 8.0	8.0 (minor)	17.01
Conodoguinet Creek - (WFO CTP)	9/10/2018	September 11, 2018 10:45:00 EST		9/12/2018	10.0 (moderate)	33,700
Gage & Town/Cumberland County	12:45			2:25	12.0 (major)	June 23, 1972
<u>Middletown, Pennsylvania - (MTLP1)</u>	Flood = 11.0	11.76	M	Flood = 11.0	11.0 (minor)	28.45
Swatara Creek - (WFO CTP)	9/12/2018	September 12, 2018 12:45:00 EST		9/13/2018	15.0 (moderate)	not available
Gage & Town/Dauphin County	2:35			5:40	18.0 (major)	June 23, 1972

<u>Penns Creek, Pennsylvania - (PNCP1)</u>	Flood = 8.0	8.48	6,370	Flood = 8.0	8.0 (minor)	14.85
Penns Creek/Basin - (WFO CTP)	9/10/2018	September 11, 2018		9/11/2018	10.0 (moderate)	34,600
Gage/Union County - Town/Snyder County	21:20	5:15:00 EST		12:30	12.0 (major)	June 23, 1972
Susquehanna Basin (West Branch)	Above FS (ft)	Crest (ft)	Streflow (cfs)	Below FS (ft)	Category (ft)	Record (ft) - (cfs)
<u>Beech Creek Station, Pennsylvania</u>	Flood = 11.0	15.14	8,420	Flood = 11.0	11.0 (minor)	15.96
Bald Eagle Creek - (WFO CTP) - (BEC1)	9/10/2018	September 11, 2018		9/12/2018	13.0 (moderate)	13,400
Gage & Town/Clinton County	12:55	8:30:00 EST		6:45	14.0 (major)	September 18, 2004
<u>Lewisburg, Pennsylvania - (LWBP1)</u>	Flood = 18.0	19.35	124,000	Flood = 18.0	18.0 (minor)	34.23
West Branch Susquehanna River - (WFO CTP)	9/11/2018	September 12, 2018		9/12/2018	23.0 (moderate)	300,000
Gage/Northumberland Co - Town/Union Co	13:25	1:15:00 EST		15:00	28.0 (major)	June 24, 1972
<u>Lock Haven, Pennsylvania - (LHVP1)</u>	Flood = 21.0	21.93	80,200	Flood = 21.0	21.0 (minor)	32.30
West Branch Susquehanna River - (WFO CTP)	9/11/2018	September 11, 2018		9/11/2018	23.0 (moderate)	not available
Gage & Town/Clinton County	4:10	8:45:00 EST		16:15	25.0 (major)	March 18, 1936
<u>Milton, Pennsylvania - (ILTP1)</u>	Flood = 19.0	20.54	M	Flood = 19.0	19.0 (minor)	34.55
West Branch Susquehanna River - (WFO CTP)	9/11/2018	September 12, 2018		9/12/2018	22 (moderate)	not available
Gage/W. Milton-Union Co - Town/Northumberland Co	13:15	1:15:00 EST		13:20	25 (major)	June 24, 1972
<u>Montgomery, Pennsylvania - (MTGP1)</u>	Flood = 20.0	E21.81	M	Flood = 20.0	20.0 (minor)	37.50
West Branch Susquehanna River - (WFO CTP)	9/11/2018	September 11, 2018		9/12/2018	24 (moderate)	not available
Gage & Town/Lycoming County	E9:30:00 AM	E16:30:00 EST		E3:30:00 PM	28 (major)	June 23, 1972
<u>Muncy, Pennsylvania - (MCYP1)</u>	Flood = 20.0	E21.20	M	Flood = 20.0	20.0 (minor)	37.45
West Branch Susquehanna River - (WFO CTP)	9/11/2018	September 11, 2018		9/12/2018	22 (moderate)	not available
Gage & Town/Lycoming County	E11:00:00 AM	E18:00:00 EST		E7:00:00 AM	28 (major)	June 23, 1972
<u>Renovo, Pennsylvania - (ROVP1)</u>	Flood = 16.0	16.11	74,900	Flood = 16.0	16.0 (minor)	29.39
West Branch Susquehanna River - (WFO CTP)	9/11/2018	September 11, 2018		9/11/2018	18 (moderate)	236,000
Gage & Town/Clinton County	1:10	2:15:00 EST		3:45	22 (major)	March 18, 1936
<u>Williamsport, Pennsylvania - (WILP1)</u>	Flood = 20.0	21.08	121,000	Flood = 20.0	20.0 (minor)	34.75
W B Susquehanna River - (WFO CTP)	9/11/2018	September 11, 2018		9/12/2018	21 (moderate)	279,000
Gage & Town/Lycoming County	9:05	17:30:00 EST		3:10	30 (major)	June 23, 1972

Crest Statistics

Flooding - 9/9/2018 - 9/13/2018

Crests - 9/9/2018 - 9/12/2018

First flood of 5 - September, 2018

Twenty-third flood in 2018

Number of MARFC Forecast Points Flooding - **28**

Number of Floods Cresting in **Minor** Range - 17

Number of Floods Cresting in **Moderate** Range - 8

Number of Floods Cresting in **Major** Range - 3

Number of Floods Cresting in **Missing** Range - 0

MARFC Power Ranking - 87 (Minor = 1 - Moderate = 5 - Major = 10 - Missing =1)

Number of MARFC records - 0

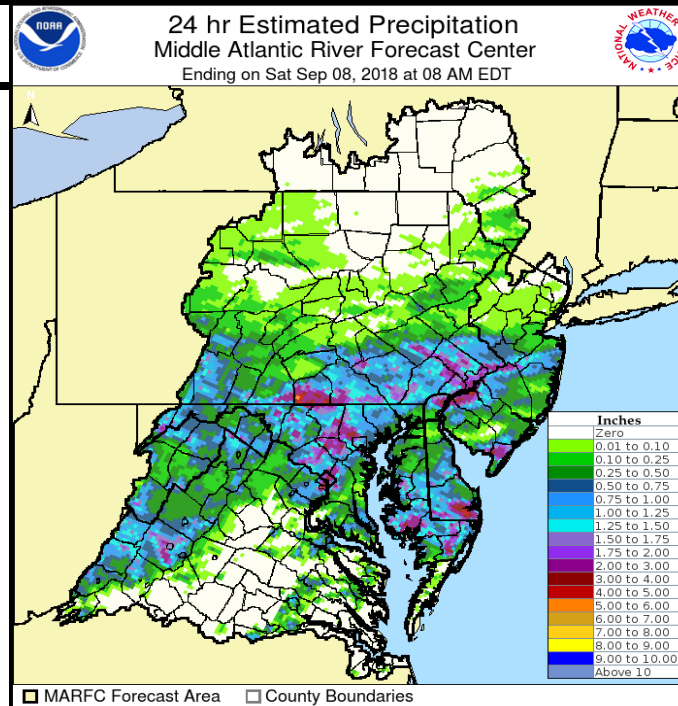
E = Estimated

Weather Summary

A nearly stationary front over a multi-day period became the focal point for heavy rain as the remaining moisture from what was once Tropcail Storm Gordon moved northeast. 4 to over 9 inches of rain on top of very wet ground as a result of multiple months of unusually wet weather led to widespread flooding.

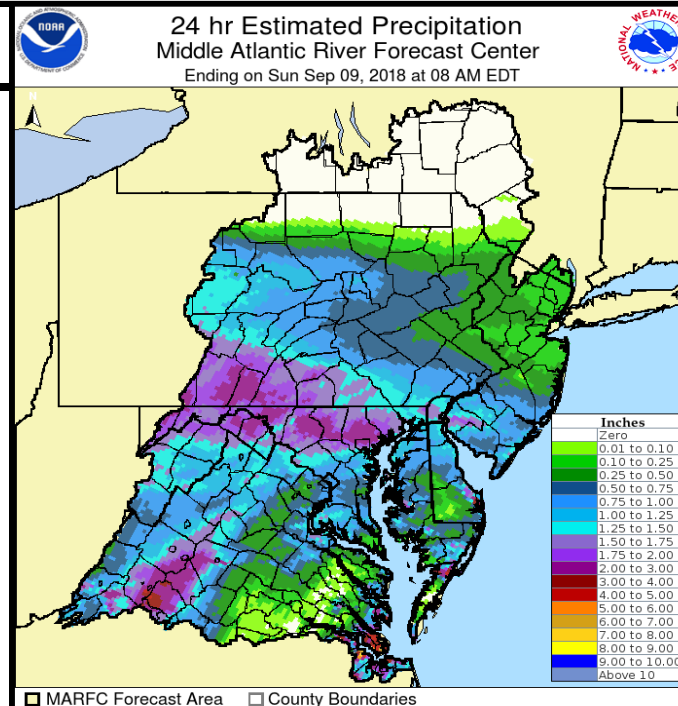
TOP 24-HOUR PRECIPITATION AMOUNTS (Liquid Equivalent and in inches)

9/07/2018 (12 Z) - 9/08/2018 (12 Z)			
Amount	Location	County	State
4.91	Philadelphia Airport, PA	Delaware	
4.02	Stockley, DE	Sussex	
3.56	Woodbine, NJ	Cape May	
3.49	Takoma Park, MD	Montgomery	
3.28	Wilmington, DE	New Castle	
3.27	Wilmington, DE	New Castle	
2.99	Woodbine, NJ	Cape May	
2.89	Washington Reagan Airport, VA	Arlington	
2.81	Hagerstown, MD	Washington	
2.76	Philadelphia (Franklin Institute), PA	Philadelphia	
2.75	Hanover, PA	York	
2.67	Indian Rock Dam, PA	York	
2.53	Woodbine, NJ	Cape May	
2.51	Valley Forge, PA	Chester	
2.45	Wyndmoor, PA	Philadelphia	



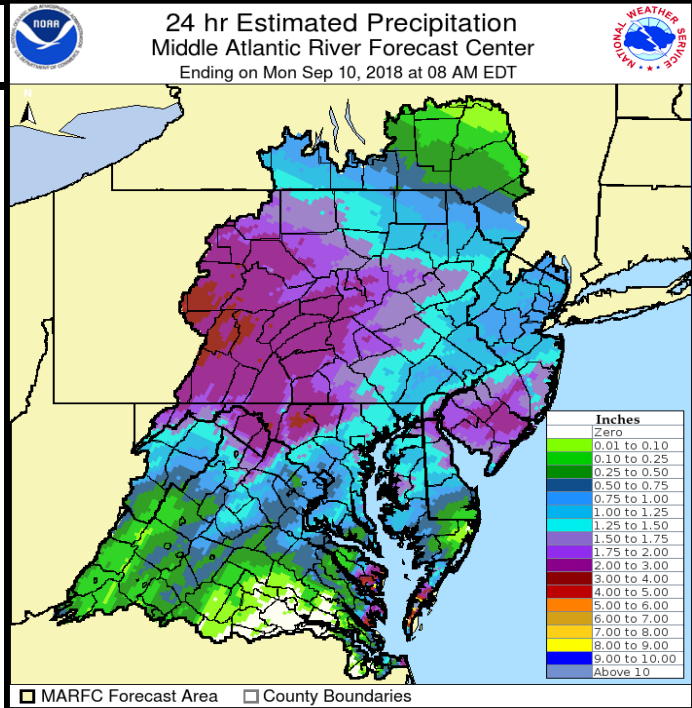
TOP 24-HOUR PRECIPITATION AMOUNTS (Liquid Equivalent and in inches)

9/08/2018 (12 Z) - 9/09/2018 (12 Z)			
Amount	Location	County	State
5.56	Newport News, VA	York	
5.28	Newport News, VA	York	
4.20	North, VA	Mathews	
4.16	Newport News (Airport), VA	James City	
3.94	Big Island, VA	Bedford	
3.30	Pedlar Dam, VA	Amherst	
3.28	Long Neck, DE	Sussex	
3.23	Norfolk (NAS), VA		
2.92	Glasgow, VA	Amherst	
2.69	Meyersdale, PA	Somerset	
2.61	Poquoson, VA		
2.51	Laurel Mountain, PA	Somerset	
2.51	Thurmont, MD	Frederick	
2.42	Newark, DE	New Castle	
2.42	Falling Waters, WV	Berkeley	



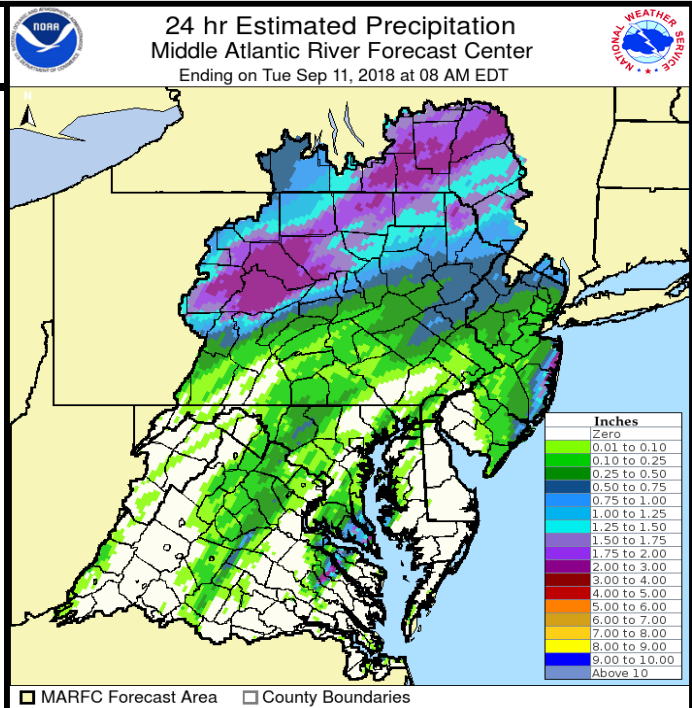
TOP 24-HOUR PRECIPITATION AMOUNTS (Liquid Equivalent and in inches)

9/09/2018 (12 Z) - 9/10/2018 (12 Z)			
Amount	Location	County	State
4.90	Upper Strasburg, PA	Franklin	
4.07	Shermans Dale, PA	Perry	
3.57	Tyrone, PA	Blair	
3.54	Laurel Mountain, PA	Somerset	
3.43	Glencoe, PA	Somerset	
3.36	Park Hall, MD	St. Marys	
3.33	Orrtanna, PA	Adams	
3.31	Frostburg, MD	Allegany	
3.28	Hollidaysburg, PA	Blair	
3.20	Tyrone, PA	Blair	
3.10	Huntingdon, PA	Huntingdon	
3.00	Pine Grove Furnace, PA	Cumberland	
2.97	Clearfield, PA	Clearfield	
2.93	Sea Isle City, NJ	Cape May	
2.92	Ebensburg, PA	Cambria	



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

9/10/2018 (12 Z) - 9/11/2018 (12 Z)			
Amount	Location	County	State
2.86	Jersey Shore, PA	Lycoming	
2.84	Coffin Rock, PA	Clinton	
2.81	Aldenville, PA	Wayne	
2.80	Slate Run, PA	Lycoming	
2.65	Sayers Dam, PA	Centre	
2.60	Renono, PA	Clinton	
2.50	Hunts Corner, NY	Cortland	
2.50	Stormstown, PA	Centre	
2.41	State College, PA	Centre	
2.37	Williamsport, PA	Lycoming	
2.35	Lock Haven, PA	Clinton	
2.35	State College, PA	Centre	
2.33	Cincinnatus, NY	Cortland	
2.33	Tyrone, PA	Blair	
2.30	Cedar Run, 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	5	1	3	1	0	4
Lehigh	0	0	0	0	0	0
Lower Main Stem Susquehanna	4	4	0	0	0	0
North Branch Susquehanna	0	0	0	0	0	0
Passaic	0	0	0	0	0	0
Potomac	11	6	4	1	0	5
Rappahannock	0	0	0	0	0	0
Raritan	0	0	0	0	0	0
SE PA and Delaware (state)	0	0	0	0	0	0
Shenandoah	0	0	0	0	0	0
Upper Main Stem Susquehanna	8	6	1	1	0	2
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)	0	0	0	0	0	0
State College, PA (CTP)	17	11	4	2	0	6
Sterling, VA (LWX)	11	6	4	1	0	5
Wakefield, VA (AKQ)	0	0	0	0	0	0