

May 17 - May 24, 2018 Preliminary Flood Summary

| Appomattox | Above FS (ft) | Crest (ft) | Streamflow (cfs) | Below FS (ft) | Category (ft) | Record (ft) - (cfs) |
|---|---------------|---------------------|------------------|---------------|-----------------|---------------------|
| Farmville, Virginia - (FRMV2) | Flood = 16.0 | 21.22 | 11,500 | Flood = 16.0 | 16.0 (minor) | 29.70 |
| Appomattox River - (WFO AKQ) | 5/19/2018 | May 19, 2018 | | 5/20/2018 | 20.0 (moderate) | 33,100 |
| Gage/Cumberland Co - Town/Prince Edward Co | 0:05 | 21:00:00 EST | | 16:00 | 25.0 (major) | June 22, 1972 |
| Matoaca, Virginia - (MTCV2) | Flood = 10.0 | 10.38 | 12,000 | Flood = 10.0 | 10.0 (minor) | 18.39 |
| Appomattox River - (WFO AKQ) | 5/20/2018 | May 20, 2018 | | 5/21/2018 | 13.0 (moderate) | 40,800 |
| Gage & Town/Chesterfield Co | 6:10 | 15:15:00 EST | | 9:45 | 15.0 (major) | October 7, 1972 |
| Mattoax, Virginia - (MTXV2) | Flood = 21.0 | 24.81 | 9,820 | Flood = 21.0 | 21.0 (minor) | 35.30 |
| Appomattox River - (WFO AKQ) | 5/22/2018 | May 23, 2018 | | 5/24/2018 | 25.0 (moderate) | 35,000 |
| Gage & Town/Amelia Co | 1:45 | 2:00:00 EST | | 16:00 | 28.0 (major) | August 18, 1940 |
| James | Above FS (ft) | Crest (ft) | Streflow (cfs) | Below FS (ft) | Category (ft) | Record (ft) - (cfs) |
| Bremo Bluff, Virginia - (BREV2) | Flood = 19.0 | M | M | Flood = 19.0 | 19.0 (minor) | 44.80 |
| James River - (WFO AKQ) | 5/19/2018 | May 20, 2018 | | 5/21/2018 | 23.0 (moderate) | not available |
| Gage & Town/Fluvanna County | M | M | | M | 34.0 (major) | June 22, 1972 |
| Palmyra, Virginia - (PYAV2) | Flood = 17.0 | 19.20 | 13,700 | Flood = 17.0 | 17.0 (minor) | 39.85 |
| Rivanna River - (WFO AKQ) | 5/19/2018 | May 19, 2018 | | 5/19/2018 | 25.0 (moderate) | 86,000 |
| Gage & Town/Fluvanna County | 7:35 | 12:45:00 EST | | 19:50 | 32.0 (major) | August 20, 1969 |
| Richmond, Virginia - (RMDV2) | Flood = 12.0 | 14.67 | 63,300 | Flood = 12.0 | 12.0 (minor) | 28.62 |
| James River - (WFO AKQ) | 5/19/2018 | May 20, 2018 | | 5/21/2018 | 15.0 (moderate) | 313,000 |
| Gage & Town/Independent City/Henrico County | 15:10 | 10:45:00 EST | | 18:20 | 22.0 (major) | June 23, 1972 |
| Richmond City Locks, Virginia - (RICV2) | Flood = 8.0 | 10.87 | M | Flood = 8.0 | 8.0 (minor) | 36.50 |
| James River - (WFO AKQ) | 5/19/2018 | May 20, 2018 | | 5/21/2018 | 19.0 (moderate) | not available |
| Gage & Town/Independent City/Henrico County | 19:15 | 11:20:00 EST | | 6:25 | 28.0 (major) | June 23, 1972 |

| Potomac | Above FS (ft) | Crest (ft) | Streflow (cfs) | Below FS (ft) | Category (ft) | Record (ft) - (cfs) |
|--|----------------------|--------------------------------------|-----------------------|----------------------|----------------------|----------------------------|
| <u>Edwards Ferry, Maryland - (EDFM2)</u> | Flood = 15.0 | 17.84 | M | Flood = 10.0 | 15.0 (minor) | not available |
| Potomac River - (WFO LWX) | 5/18/2018 | May 20, 2018 12:15:00 EST | | 5/21/2018 | 17.0 (Moderate) | not available |
| Gage & Town/Montgomery County | 19:15 | | | 14:05 | 24.0 (major) | not available |
| <u>Great Cacapon, West Virginia - (GCPW2)</u> | Flood = 9.0 | 12.73 | 14,500 | Flood = 9.0 | 9.0 (minor) | 30.10 |
| Cacapon River - (WFO LWX) | 5/17/2018 | May 18, 2018 6:00:00 EST | | | 16.0 (moderate) | 87,600 |
| Gage & Town/Morgan County | 17:00 | | | | 20.0 (major) | March 18, 1936 |
| <u>Great Cacapon, West Virginia - (GCPW2)</u> | Flood = 9.0 | 11.58 | 11,800 | Flood = 9.0 | 9.0 (minor) | 30.10 |
| Cacapon River - (WFO LWX) | | May 19, 2018 20:15:00 EST | | 5/20/2018 | 16.0 (moderate) | 87,600 |
| Gage & Town/Morgan County | | | | | 22:15 | 20.0 (major) |
| <u>Martinsburg, West Virginia - (MBGW2)</u> | Flood = 10.0 | 14.35 | 7,980 | Flood = 10.0 | 10.0 (minor) | 18.76 |
| Opequon Creek - (WFO LWX) | 5/17/2018 | May 17, 2018 19:45:00 EST | | 5/18/2018 | 12.5 (moderate) | 23,400 |
| Gage & Town/Berkeley County | 3:20 | | | | 18:00 | 15.0 (major) |
| <u>Martinsburg, West Virginia - (MBGW2)</u> | Flood = 10.0 | 12.48 | 4,630 | Flood = 10.0 | 10.0 (minor) | 18.76 |
| Opequon Creek - (WFO LWX) | 5/19/2018 | May 20, 2018 00:00:00 EST | | 5/20/2018 | 12.5 (moderate) | 23,400 |
| Gage & Town/Berkeley County | 1:55 | | | | 11:30 | 15.0 (major) |
| <u>Point of Rocks, Maryland - (PORM2)</u> | Flood = 16.0 | 17.39 | 99,200 | Flood = 16.0 | 16.0 (minor) | 41.03 |
| Potomac River - (WFO LWX) | 5/19/2018 | May 20, 2018 11:00:00 EST | | 5/21/2018 | 20.0 (moderate) | 480,000 |
| Gage & Town/Frederick County | 16:45 | | | | 0:35 | 25.0 (major) |
| Shepherdstown, West Virginia | Flood = 15.0 | 17.78 | 73,100 | Flood = 15.0 | 15.0 (minor) | 42.07 |
| Potomac River - (WFO LWX) - (SHEW2) | 5/18/2018 | May 20, 2018 8:45:00 EST | | 5/21/2018 | 18.0 (moderate) | 335,000 |
| Gage & Town/Jefferson County | 14:40 | | | | 0:40 | 22.0 (major) |
| <u>Wisconsin AVE, Washington, DC</u> | Flood = 6.0 | 7.49 | M | Flood = 6.0 | 6.0 (minor) | 17.72 |
| Potomac River - (WFO LWX) - (GTND2) | 5/19/2018 | May 19, 2018 10:30:00 EST | | 5/19/2018 | 7.0 (moderate) | missing |
| Gage & Town/District of Columbia | 7:50 | | | | 17:40 | 10.0 (major) |
| Rappahannock | Above FS (ft) | Crest (ft) | Streflow (cfs) | Below FS (ft) | Category (ft) | Record (ft) - (cfs) |
| <u>Remington, Virginia - (RENV2)</u> | Flood = 15.0 | 16.44 | 13,600 | Flood = 15.0 | 15.0 (minor) | 30.00 |
| Rappahannock River - (WFO LWX) | 5/19/2018 | May 19, 2018 21:15:00 EST | | 5/20/2018 | 20.0 (moderate) | 90,000 |
| Gage & Town/Fauquier County | 12:55 | | | | 4:45 | 25.0 (major) |

| Shenandoah | Above FS (ft) | Crest (ft) | Streflow (cfs) | Below FS (ft) | Category (ft) | Record (ft) - (cfs) |
|---|---------------|--------------------------------------|----------------|---------------|-----------------|---------------------|
| Millville, West Virginia - (MILW2) | Flood = 10.0 | 10.63 | 25,100 | Flood = 10.0 | 10.0 (minor) | 32.40 |
| Shenandoah River - (WFO LWX) | 5/19/2018 | May 19, 2018 17:30:00 EST | | 5/20/2018 | 14.0 (moderate) | 230,000 |
| Gage & Town/Jefferson County | 0:45 | | | 23:00 | 17.0 (major) | October 16, 1942 |
| 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 | 9.00 | 5,330 | Flood = 9.0 | 9.0 (minor) | 17.15 |
| Brandywine Creek/Christina Basin - (WFO PHI) | 5/17/2018 | May 17, 2018 16:00:00 EST | | 5/17/2018 | 11.0 (moderate) | 26,900 |
| Gage & Town/Delaware County | 16:00 | | | 16:00 | 13.0 (major) | September 17, 1999 |

Crest Statistics

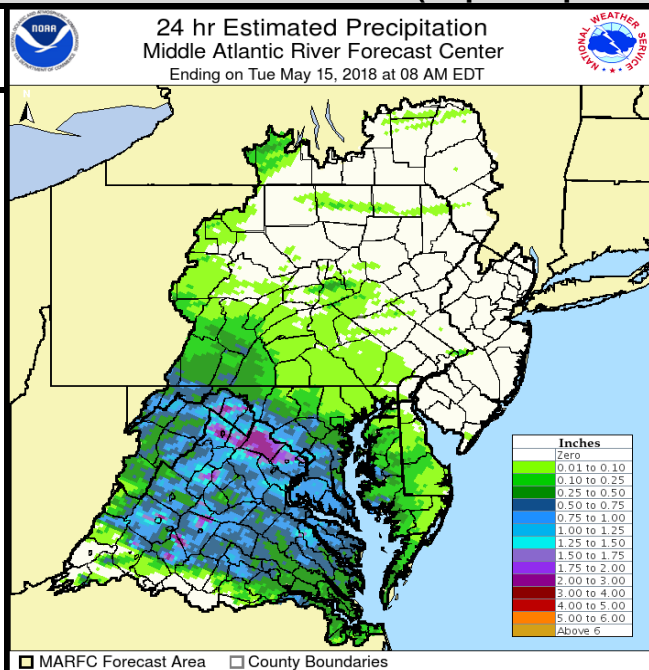
Flooding - 5/17/2018 - 5/24/2018
 Crests - 5/17/2018 - 5/23/2018
 First flood of 4 - May, 2018
 Eighth flood in 2018
 Number of MARFC Forecast Points Flooding - **14 + 2 points flooding more than once = 16**
 Number of Floods Cresting in **Minor** Range - 13
 Number of Floods Cresting in **Moderate** Range - 4
 Number of Floods Cresting in **Major** Range - 0
 Number of Floods Cresting in **Missing** Range - 1
MARFC Power Ranking - 34 (Minor = 1 - Moderate = 5 - Major = 10 - Missing =1)
 Number of MARFC records - 0
 E = Estimated

Weather Summary

A nearly stationary front undulated north and south in the Mid-Atlantic for several days. Meanwhile, deep, southerly flow drew tropical moisture into this front. The result was several days of showers and thunderstorms that produced areas of heavy rainfall that eventually added up to 6 to over 10 inches in some areas, mainly south of the Pennsylvania/Maryland state line.

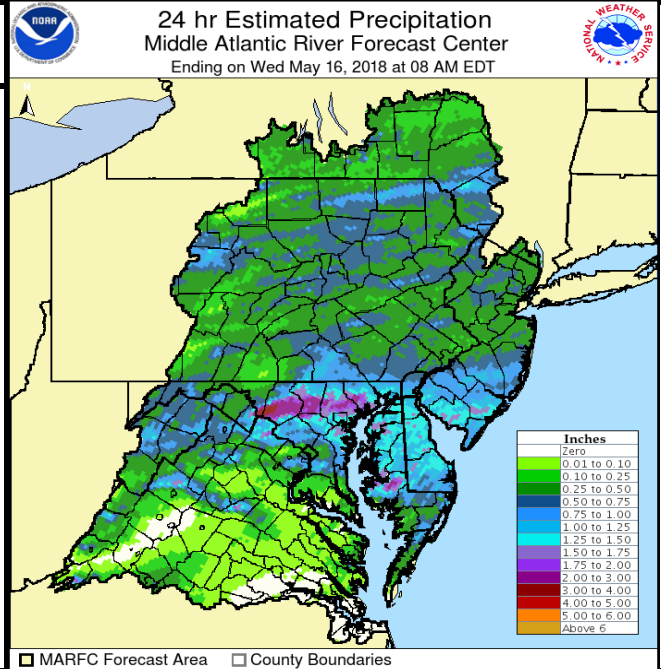
TOP 24-HOUR PRECIPITATION AMOUNTS (Liquid Equivalent and in inches)

| 5/14/2018 (12 Z) - 5/15/2018 (12 Z) | | | |
|-------------------------------------|---------------------|-------------|-------|
| Amount | Location | County | State |
| 2.98 | Luray, VA | (Page) | |
| 2.90 | Luray, VA | (Page) | |
| 2.84 | Middleburg, VA | (Loudoun) | |
| 2.24 | Winchester City, VA | | |
| 2.20 | Glasgow, VA | (Fairfax) | |
| 2.15 | Winchester, VA | (Frederick) | |
| 2.13 | Dulles Apt, VA | (Fairfax) | |
| 2.10 | Washington, DC | | |
| 2.09 | Reston, VA | (Fairfax) | |
| 2.09 | Shannondale, WV | (Jefferson) | |
| 2.06 | McLean, VA | (Fairfax) | |
| 1.90 | Vienna, VA | (Fairfax) | |
| 1.82 | Vienna, VA | (Fairfax) | |
| 1.80 | Matthews Arm, VA | (Page) | |
| 1.61 | Dunn Loring, VA | (Fairfax) | |



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

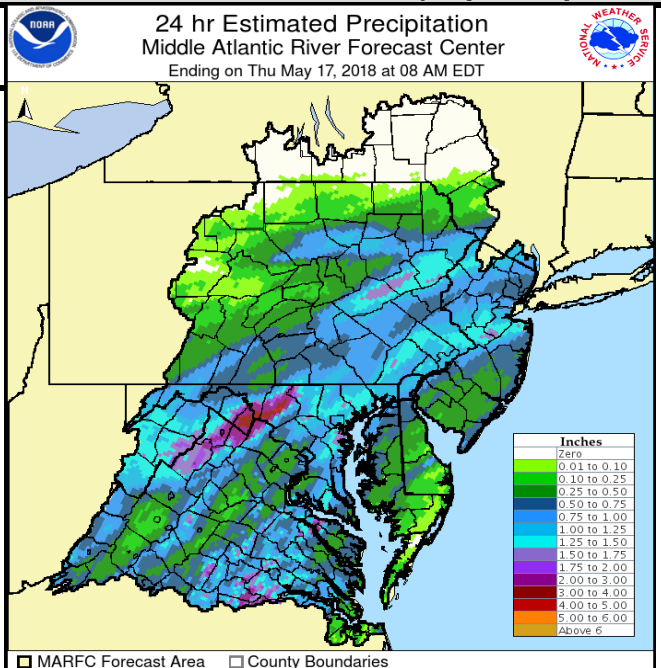
| 5/15/2018 (12 Z) - 5/16/2018 (12 Z) | | | |
|--|------------------|----------------|--------------|
| Amount | Location | County | State |
| 2.58 | Easton, MD | (Talbot) | |
| 2.36 | Trappe, MD | (Talbot) | |
| 2.32 | Severn, MD | (Anne Arundel) | |
| 2.26 | Lisbon, MD | (Howard) | |
| 2.21 | Leesburg, VA | (Loudoun) | |
| 2.19 | Bel Air, MD | (Harford) | |
| 2.19 | Frederick, MD | (Frederick) | |
| 2.06 | Long Green, MD | (Baltimore) | |
| 2.01 | Huck, WV | (Grant) | |
| 1.90 | Westminster, MD | (Carroll) | |
| 1.85 | Frederick, MD | (Frederick) | |
| 1.84 | Cambridge, MD | (Dorchester) | |
| 1.84 | Reisterstown, MD | (Baltimore) | |
| 1.76 | Seaford, DE | (Sussex) | |
| 1.75 | Kingsville, MD | (Baltimore) | |



| 5/16/2018 (12 Z) - 5/17/2018 (12 Z) | | | |
|--|------------------|----------------|--------------|
| Amount | Location | County | State |
| 4.91 | Charles Town, WV | (Jefferson) | |
| 3.55 | Bardane, WV | (Jefferson) | |
| 3.41 | Martinsburg, WV | (Berkeley) | |
| 3.32 | Shannondale, WV | (Jefferson) | |
| 3.30 | Berryville, VA | (Clarke) | |
| 2.94 | Frederick, MD | (Frederick) | |
| 2.58 | Strasburg, VA | (Shenandoah) | |
| 2.54 | Round Hill, VA | (Loudoun) | |
| 2.41 | Richmond, VA | (Goochland) | |
| 2.40 | Sheperdstown, WV | (Jefferson) | |
| 2.37 | Winterpock, VA | (Chesterfield) | |
| 2.33 | Devils Hole, WV | (Hardy) | |
| 2.20 | Woodstock, VA | (Shenandoah) | |
| 2.19 | Lovettsville, VA | (Loudoun) | |
| 2.12 | Modena, PA | (Chester) | |

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

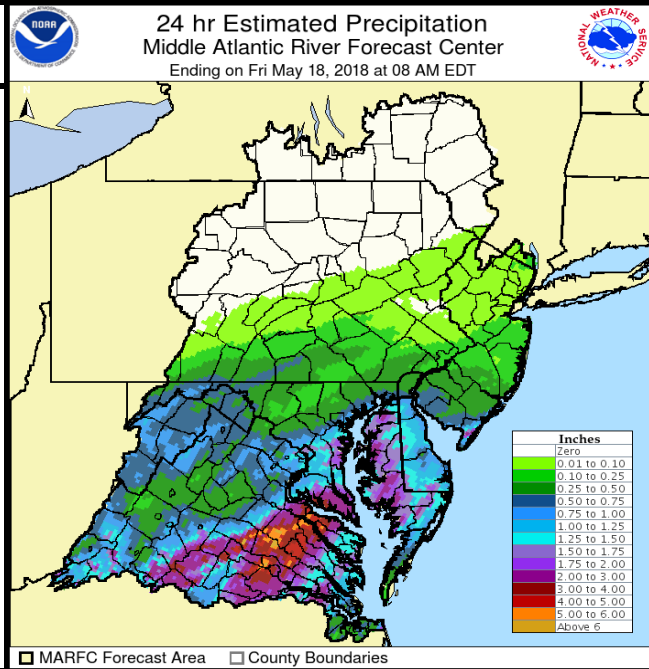
| 5/16/2018 (12 Z) - 5/17/2018 (12 Z) | | | |
|--|------------------|----------------|--------------|
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| 3.30 | Berryville, VA | (Clarke) | |
| 2.94 | Frederick, MD | (Frederick) | |
| 2.58 | Strasburg, VA | (Shenandoah) | |
| 2.54 | Round Hill, VA | (Loudoun) | |
| 2.41 | Richmond, VA | (Goochland) | |
| 2.40 | Sheperdstown, WV | (Jefferson) | |
| 2.37 | Winterpock, VA | (Chesterfield) | |
| 2.33 | Devils Hole, WV | (Hardy) | |
| 2.20 | Woodstock, VA | (Shenandoah) | |
| 2.19 | Lovettsville, VA | (Loudoun) | |
| 2.12 | Modena, PA | (Chester) | |

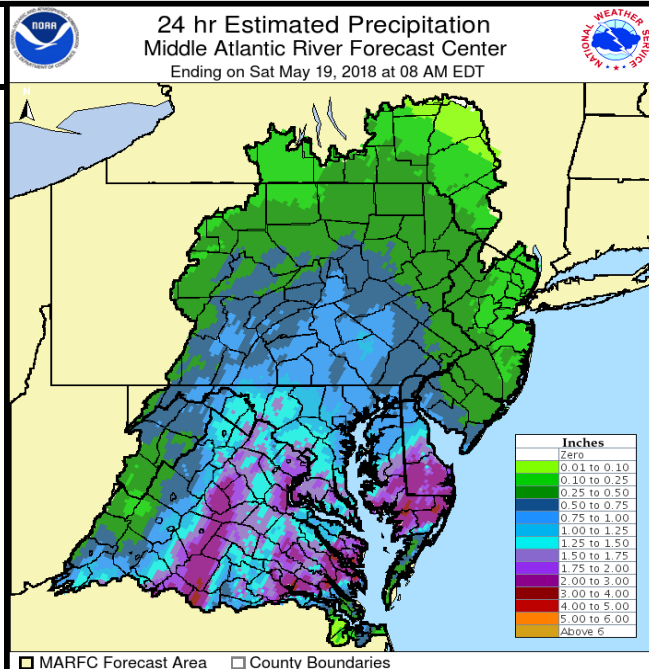
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| 5/17/2018 (12 Z) - 5/18/2018 (12 Z) | | | |
|--|---------------------|----------------|--------------|
| Amount | Location | County | State |
| 5.55 | Glen Allen, VA | (Henrico) | |
| 4.22 | Princess Anne, MD | (Somerset) | |
| 3.60 | Richmond Apt, VA | (Henrico) | |
| 3.24 | Chesterfield, VA | (Chesterfield) | |
| 3.23 | Winterpock, VA | (Chesterfield) | |
| 3.23 | Winterpock, VA | (Chesterfield) | |
| 3.00 | Park Hall, MD | (St. Marys) | |
| 2.79 | Dunkirk, MD | (Calvert) | |
| 2.63 | Roanoke Apt., VA | (Roanoke) | |
| 2.58 | Washington, DC | | |
| 2.57 | Wakefield, VA | (Sussex) | |
| 2.56 | Ft. AP Hill, VA | (Caroline) | |
| 2.41 | Buchanon, VA | (Botetourt) | |
| 2.40 | McLean, VA | (Fairfax) | |
| 2.38 | Charlottesville, VA | (Albemarle) | |



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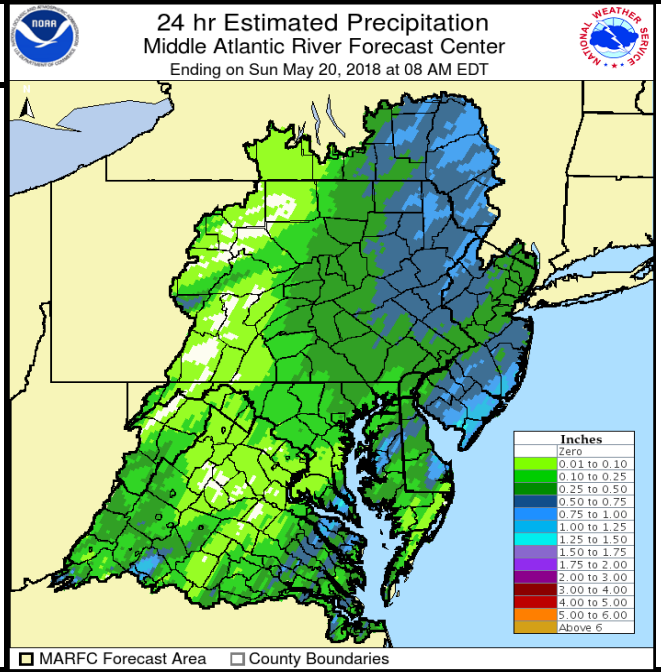
| 5/18/2018 (12 Z) - 5/19/2018 (12 Z) | | | |
|--|---------------------|------------------|--------------|
| Amount | Location | County | State |
| 3.93 | Parsonburg, MD | (Wicomico) | |
| 3.59 | Farmville, VA | (Prince Edward) | |
| 3.29 | Ocean City, MD | (Worcester) | |
| 3.14 | Somerset, VA | (Orange) | |
| 3.14 | Sterling, VA | (Loudoun) | |
| 2.99 | Charlottesville, VA | (Albemarle) | |
| 2.94 | Richmond Apt., VA | (Henrico) | |
| 2.88 | Salisbury, MD | (Wicomico) | |
| 2.75 | Bethany Beach, DE | (Sussex) | |
| 2.70 | Orange, VA | (Orange) | |
| 2.70 | Farmville, VA | (Prince Edward) | |
| 2.68 | Powellville, MD | (Wicomico) | |
| 2.68 | Urbanna, VA | (Lancaster) | |
| 2.62 | Quantico, VA | (Prince William) | |
| 2.57 | Lynchburg, VA | (Campbell) | |



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

5/19/2018 (12 Z) - 5/20/2018 (12 Z)
Amount Location County State

- 1.33 Dennis Twp, NJ (Cape May)
- 1.30 Roscoe, NY (Sullivan)
- 1.29 Phoenicia, NY (Ulster)
- 1.25 Denton, MD (Caroline)
- 1.22 Dingmans Ferry, PA (Pike)
- 1.22 Callicoon, NY (Sullivan)
- 1.22 Walnutport, PA (Northampton)
- 1.20 Claryville, NY (Ulster)
- 1.20 Easton, MD (Talbot)
- 1.19 High Point, NJ (Sussex)
- 1.19 Lovington, VA (Nelson)
- 1.18 Estelle Manor, NJ (Atlantic)
- 1.18 Stockley, DE (Sussex)
- 1.18 Woodbine, NJ (Cape May)
- 1.17 Grahamsville, NY (Sullivan)



| Floods by MARFC Basins | | | | | | |
|---|--------------------|--------------|-----------------|--------------|----------------|------------------------|
| MARFC Basins | Fcst Points | Minor | Moderate | Major | Unknown | Mod & Major |
| Appomattox | 3 | 2 | 1 | 0 | 0 | 1 |
| Chemung | 0 | 0 | 0 | 0 | 0 | 0 |
| Delaware | 0 | 0 | 0 | 0 | 0 | 0 |
| James | 4 | 4 | 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 | 0 | 0 | 0 | 0 | 0 | 0 |
| Potomac | 8 | 5 | 3 | 0 | 0 | 3 |
| Rappahannock | 1 | 1 | 0 | 0 | 0 | 0 |
| Raritan | 0 | 0 | 0 | 0 | 0 | 0 |
| SE PA and Delaware (state) | 1 | 1 | 0 | 0 | 0 | 0 |
| Shenandoah | 1 | 1 | 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) | 1 | 1 | 0 | 0 | 0 | 0 |
| State College, PA (CTP) | 0 | 0 | 0 | 0 | 0 | 0 |
| Sterling, VA (LWX) | 10 | 7 | 3 | 0 | 0 | 3 |
| Wakefield, VA (AKQ) | 7 | 6 | 1 | 0 | 0 | 1 |
| | | | | | | |