

Storm Data and Unusual Weather Phenomena - December 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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DISTRICT OF COLUMBIA

DISTRICT OF COLUMBIA COUNTY --- 1.3 SW WALTER REED [38.97, -77.05], 0.7 SW WALTER REED [38.97, -77.04], 0.5 WSW WALTER REED [38.98, -77.04], 0.6 WSW WALTER REED [38.98, -77.04], 1.0 SW WALTER REED [38.97, -77.05], 1.4 SW WALTER REED [38.97, -77.05]				
	12/15/18 20:25 EST		0	Flood (due to Heavy Rain)
	12/16/18 07:30 EST		0	Source: River/Stream Gage

The stream gage on Rock Creek at Sherrill Drive/DC exceeded the 7 foot flood stage during the indicated period. Water reached several portions of the Valley Trail between Picnic Areas 7 and 10 in Rock Creek Park, and completely covered the Rolling Meadows Trailbridge. The peak level of 8.02 feet occurred at 3:45 AM on the 16th.

A potent upper-level low and associated area of surface low pressure approached the region from southwest on the 15th. Strong forcing for ascent and ample moisture transport in advance of the upper level low led to a prolonged period of rain across the region. Eventually low pressure transferred to the coast before precipitation wound down on the 16th. Widespread rainfall totals of 2-4 inches were observed across the area.

(DC-Z001) DISTRICT OF COLUMBIA				
	12/17/18 00:47 EST		0	Coastal Flood
	12/18/18 08:30 EST		0	

An influx of freshwater due to heavy rain led to increased water level anomalies and coastal flooding along the Potomac River.

(DC-Z001) DISTRICT OF COLUMBIA				
	12/21/18 17:52 EST		0	Coastal Flood
	12/21/18 19:32 EST		0	

Increased southerly and onshore flow in addition to an influx of freshwater due to heavy rain led to increased water level anomalies and coastal flooding along the Potomac River.

(DC-Z001) DISTRICT OF COLUMBIA				
	12/29/18 00:23 EST		0	Dense Fog
	12/29/18 05:03 EST		0	

Clearing skies, falling temperatures, and abundant low level moisture led to the formation of dense fog.

MARYLAND, Central

(MD-Z006) NORTHERN BALTIMORE, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z013) PRINCE GEORGES, (MD-Z014) ANNE ARUNDEL, (MD-Z016) CHARLES, (MD-Z017) ST. MARY'S, (MD-Z018) CALVERT, (MD-Z505) NORTHWEST HOWARD, (MD-Z506) CENTRAL AND SOUTHEAST HOWARD, (MD-Z507) NORTHWEST HARFORD, (MD-Z508) SOUTHEAST HARFORD				
	12/02/18 06:05 EST		0	Dense Fog
	12/02/18 11:07 EST		0	

Cool, moist easterly flow underneath warm air advection aloft led to the formation of fog, some of which became locally dense.

(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z502) CENTRAL AND EASTERN ALLEGANY, (MD-Z505) NORTHWEST HOWARD, (MD-Z507) NORTHWEST HARFORD, (MD-Z508) SOUTHEAST HARFORD				
	12/02/18 15:26 EST		0	Dense Fog
	12/03/18 04:34 EST		0	

Cool, moist easterly flow underneath warm air advection aloft led to the formation of fog, some of which became locally dense.

(MD-Z016) CHARLES, (MD-Z018) CALVERT				
	12/09/18 13:00 EST		0	Winter Weather
	12/09/18 21:00 EST		0	

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
(MD-Z017) ST. MARY'S				
	12/09/18 13:00 EST		0	Winter Storm
	12/09/18 21:00 EST		0	
<p>An area of low pressure developed along the Gulf Coast on December 8th and tracked northeastward along the North and South Carolina coastlines during the daytime hours on the 9th, strengthening to around 1000mb by the evening. The low then exited eastward off the coast of Cape Hatteras and weakened on the night of the 9th. Accumulating snow was brought to southern Maryland, with a sharp cutoff to completely dry conditions from the Capitol Beltway northward.</p>				
(MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z014) ANNE ARUNDEL, (MD-Z018) CALVERT, (MD-Z503) NORTHWEST MONTGOMERY, (MD-Z505) NORTHWEST HOWARD, (MD-Z506) CENTRAL AND SOUTHEAST HOWARD, (MD-Z507) NORTHWEST HARFORD, (MD-Z508) SOUTHEAST HARFORD				
	12/14/18 05:45 EST		0	Dense Fog
	12/14/18 13:48 EST		0	
<p>Low clouds and fog, locally dense, advected westward from the Atlantic Ocean and across portions of Maryland.</p>				
PRINCE GEORGE'S COUNTY --- 0.4 NW GLEN DALE [38.98, -76.82], 0.3 NW GLEN DALE [38.98, -76.82], 0.3 NNW GLEN DALE [38.98, -76.82], 0.4 NNW GLEN DALE [38.99, -76.82]				
	12/15/18 17:23 EST		0	Flood (due to Heavy Rain)
	12/15/18 19:23 EST		0	Source: Department of Highways
<p>MD-564 closed at Duvall Street due to flooding.</p>				
MONTGOMERY COUNTY --- 0.8 SW BRIGHTON [39.19, -77.04], 0.6 SW BRIGHTON [39.19, -77.04], 0.7 SW BRIGHTON [39.19, -77.04], 0.8 SW BRIGHTON [39.19, -77.04]				
	12/15/18 19:01 EST		0	Flood (due to Heavy Rain)
	12/15/18 21:01 EST		0	Source: Fire Department/Rescue
<p>Water rescue on Brighton Dam Road near Bordly Drive. Road closed, with 1.5 feet of water flowing across roadway.</p>				
MONTGOMERY COUNTY --- 2.3 WSW UNITY [39.21, -77.09], 2.4 WSW UNITY [39.22, -77.09], 2.4 NNE MT ZION [39.21, -77.09], 2.4 NNE MT ZION [39.21, -77.09]				
	12/15/18 19:28 EST		0	Flood (due to Heavy Rain)
	12/15/18 21:28 EST		0	Source: Emergency Manager
<p>Zion Road was closed in both direction at Gregg Road due to high water.</p>				
MONTGOMERY COUNTY --- 1.3 NW QUINCE ORCHARD [39.13, -77.27], 1.4 NW QUINCE ORCHARD [39.13, -77.27], 1.4 NW QUINCE ORCHARD [39.13, -77.27], 1.2 NW QUINCE ORCHARD [39.13, -77.27]				
	12/15/18 19:31 EST		0	Flood (due to Heavy Rain)
	12/15/18 21:31 EST		0	Source: Emergency Manager
<p>Riffle Ford Road was closed in both directions at Great Seneca Creek due to high water.</p>				
MONTGOMERY COUNTY --- 0.5 E BROOKEVILLE [39.18, -77.06], 0.4 ENE BROOKEVILLE [39.18, -77.06], 0.5 ENE BROOKEVILLE [39.18, -77.06], 0.5 E BROOKEVILLE [39.18, -77.06]				
	12/15/18 20:19 EST		0	Flood (due to Heavy Rain)
	12/15/18 22:19 EST		0	Source: Emergency Manager
<p>Georgia Avenue closed near Brookeville Road due to flooding.</p>				
ANNE ARUNDEL COUNTY --- 1.8 NNE MARYLAND CITY [39.13, -76.81], 0.6 SW FT MEADE JCT [39.11, -76.79], 1.2 SSE FT MEADE JCT [39.10, -76.77], 0.8 NNE TIPTON AAF ARPT [39.09, -76.76], 0.4 NE TIPTON AAF ARPT [39.08, -76.76], 0.4 NNW TIPTON AAF ARPT [39.09, -76.77]				
	12/15/18 20:41 EST		0	Flood (due to Heavy Rain)
	12/16/18 09:36 EST		0	Source: River/Stream Gage
<p>The river gage on the Little Patuxent River at Savage exceeded the 10 foot flood stage during the indicated period. Riverside trails were flooded. Additionally, water approached Brock Bridge Road, as well as fields off of Bald Eagle Drive. The peak level of 12.27 feet occurred at 4:45 AM on December 16th.</p>				

Storm Data and Unusual Weather Phenomena - December 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MONTGOMERY COUNTY --- 1.6 NNE DARNESTOWN [39.12, -77.29], 1.0 E DAWSONVILLE [39.13, -77.33], 0.5 NNE SENECA [39.09, -77.33], 1.1 WNW SENECA [39.09, -77.35], 1.6 S DAWSONVILLE [39.11, -77.35], 1.5 SSE DAWSONVILLE [39.11, -77.33], 0.8 ENE DAWSONVILLE [39.13, -77.34], 2.1 NNE DARNESTOWN [39.13, -77.29]				
	12/15/18 22:11 EST		0	Flood (due to Heavy Rain)
	12/16/18 12:24 EST		0	Source: River/Stream Gage
The stream gage on the Seneca Creek at Dawsonville exceeded the 7.5 foot flood stage during the indicated period, leading to flooding of the Seneca Creek Greenway, as well as a small portion of Berryville Road west of Darnestown. The peak level of 8.98 feet occurred at 1:35 AM on the 16th.				
MONTGOMERY COUNTY --- 0.5 ENE KEMP MILL [39.03, -77.01], 1.1 SW HOLLYWOOD PARK [39.06, -77.01], 1.5 ENE WHEATON [39.06, -77.02], 1.0 ESE WHEATON HILLS [39.07, -77.03], 1.3 ESE LAYHILL [39.08, -77.03], 1.2 WSW HOLLYWOOD PARK [39.06, -77.02], 0.9 SSW HOLLYWOOD PARK [39.06, -77.01], 0.4 NW WHITE OAK [39.03, -77.01]				
	12/15/18 23:19 EST		0	Flood (due to Heavy Rain)
	12/16/18 01:35 EST		0	Source: River/Stream Gage
The stream gage on the Northwest Branch of the Anacostia River at Colesville exceeded the 9 foot flood stage during the indicated period. Portions of the Northwest Branch Trail and Indian Spring Country Club, as well as backyards of homes on Kemps Mill Road just south of Randolph Road were flooded. The peak level of 9.25 feet occurred at 12:45 AM on the 16th.				
CARROLL COUNTY --- 1.4 NNW KEYMAR [39.62, -77.24], 1.2 NW KEYMAR [39.61, -77.24], 1.0 NNW KEYMAR [39.61, -77.24], 1.2 NNW KEYMAR [39.62, -77.24]				
	12/16/18 00:58 EST		0	Flood (due to Heavy Rain)
	12/16/18 05:31 EST		0	Source: River/Stream Gage
The stream gage on the Big Pipe Creek at Bruceville exceeded the 8 foot flood stage during the indicated period. Keysville-Bruceville Road experienced flooding. The peak level of 8.78 feet occurred at 2:15 AM.				
PRINCE GEORGE'S COUNTY --- 0.3 E UPPER MARLBORO [38.82, -76.75], 0.2 ESE UPPER MARLBORO [38.82, -76.75], 0.4 SSE UPPER MARLBORO [38.81, -76.75], 0.4 S UPPER MARLBORO [38.81, -76.75], 0.4 S UPPER MARLBORO [38.81, -76.75], 0.4 SSE UPPER MARLBORO [38.81, -76.75], 0.4 SE UPPER MARLBORO [38.82, -76.74]				
	12/16/18 01:58 EST		0	Flood (due to Heavy Rain)
	12/17/18 09:57 EST		0	Source: River/Stream Gage
The river gage on the Western Branch at Upper Marlboro exceeded the 11 foot flood stage during the indicated period. The Water Street bridge was completely covered by water and much of Race Track Road flooded between Marlboro Pike and the community center. The peak level of 13.44 feet occurred at 12:40 PM on December 16th.				
HOWARD COUNTY --- 0.5 N ELKRIDGE [39.23, -76.72], 0.7 NNW ELKRIDGE [39.23, -76.73], 1.4 NW ELKRIDGE [39.23, -76.74], 1.2 ESE ILCHESTER [39.24, -76.75], 1.1 ESE ILCHESTER [39.24, -76.75], 1.4 NW ELKRIDGE [39.23, -76.74], 0.5 NNW ELKRIDGE [39.23, -76.72]				
	12/16/18 02:00 EST		0	Flood (due to Heavy Rain)
	12/16/18 11:31 EST		0	Source: River/Stream Gage
The river gage on the Patapsco River at Elkridge exceeded the 15 foot flood stage during the indicated period. Water covered a portion of River Road in Patapsco Valley State Park, and large portions of the park were flooded near the playground off Gunn Road. The peak level of 16.80 feet occurred at 5:50 AM on December 16th.				
BALTIMORE COUNTY --- 0.7 SW GLENCOE [39.54, -76.64], 0.3 WSW GLENCOE [39.55, -76.64], 0.8 NW GLENCOE [39.56, -76.64], 0.7 WSW GLENCOE [39.54, -76.64]				
	12/16/18 03:10 EST		0	Flood (due to Heavy Rain)
	12/16/18 08:28 EST		0	Source: River/Stream Gage
The stream gage on Gunpowder Falls at Glencoe exceeded the 7 foot flood stage during the indicated period. Flooding occurred along portions of Upper Glencoe Road and Lower Glencoe Road. The peak level of 7.76 feet occurred at 5:45 AM on December 16th.				
HOWARD COUNTY --- 1.1 S NORTH LAUREL [39.11, -76.88], 1.7 SSE NORTH LAUREL [39.11, -76.86], 1.6 SE NORTH LAUREL [39.11, -76.86], 1.0 SSE NORTH LAUREL [39.12, -76.87]				
	12/16/18 06:07 EST		0	Flood (due to Heavy Rain)
	12/16/18 19:46 EST		0	Source: River/Stream Gage
The stream gage on the Patuxent River below Duckett Dam near Laurel exceeded the 9.5 foot flood stage during the indicated period. Water overflowed the banks into nearby park land. The peak level of 9.65 feet occurred at 6:45 PM.				
MONTGOMERY COUNTY --- 1.4 ESE BRIGHTON [39.19, -77.01], 1.5 ESE BRIGHTON [39.19, -77.00], 1.4 ESE BRIGHTON [39.19, -77.00], 1.3 ESE BRIGHTON [39.19, -77.01]				

Storm Data and Unusual Weather Phenomena - December 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	12/16/18 06:30 EST		0	Flood (due to Heavy Rain)
	12/16/18 08:30 EST		0	Source: State Official

Brighton Dam Road closed due to flooding.

ALLEGANY COUNTY --- 0.5 E KEIFER [39.53, -78.46], 0.7 NE KEIFER [39.54, -78.46], 1.3 ENE KEIFER [39.54, -78.45], 1.4 ENE KEIFER [39.54, -78.45], 0.7 NE KEIFER [39.54, -78.46], 0.3 ENE KEIFER [39.53, -78.47]

	12/16/18 09:30 EST		0	Flood (due to Heavy Rain)
	12/16/18 18:40 EST		0	Source: River/Stream Gage

The river gage on the Potomac River at Paw Paw exceeded the 25 foot flood stage during the indicated period. The roadway to the C&O Canal parking area flooded, as did the lowest end of the Purslane Run hiker/biker area, and a parking area adjacent to the highway bridge. The peak level of 25.33 feet occurred at 1:00 PM.

FREDERICK COUNTY --- 0.4 SSE GROVE [39.40, -77.38], 0.5 S PEARL [39.39, -77.37], 0.3 W REELS MILL [39.37, -77.39], 1.1 E LIME KILN [39.35, -77.41], 1.1 NE LIME KILN [39.36, -77.41], 0.2 E FREDERICK JCT [39.38, -77.40]

	12/16/18 09:37 EST		0	Flood (due to Heavy Rain)
	12/17/18 02:03 EST		0	Source: River/Stream Gage

The river gage on the Monocacy River at Frederick exceeded the 15 foot flood stage during the indicated period, leading to flooding of portions of Pinecliff Park, as well as many of the low-lying fields at Monocacy National Battlefield. The peak level of 16.38 feet occurred at 8:45 PM on the 16th.

HOWARD COUNTY --- 0.9 NW SIMPSONVILLE [39.19, -76.89], 0.9 NW SIMPSONVILLE [39.19, -76.89], 0.6 NW SIMPSONVILLE [39.19, -76.89], 0.7 NW SIMPSONVILLE [39.19, -76.89]

	12/16/18 11:39 EST		0	Flood (due to Heavy Rain)
	12/16/18 13:39 EST		0	Source: State Official

Harriet Tubman Lane was closed due to flooding.

HOWARD COUNTY --- 0.7 ESE ELKRIDGE [39.22, -76.71], 0.7 ESE ELKRIDGE [39.22, -76.71], 1.2 ESE ELKRIDGE [39.21, -76.70], 1.2 ESE ELKRIDGE [39.21, -76.70]

	12/16/18 11:41 EST		0	Flood (due to Heavy Rain)
	12/16/18 13:41 EST		0	Source: State Official

Furnace Avenue was closed due to flooding.

MONTGOMERY COUNTY --- 0.7 S SENECA [39.07, -77.33], 4.0 SW POOLESVILLE [39.12, -77.48], 4.9 WSW POOLESVILLE [39.13, -77.51], 3.7 SW WHITES FERRY [39.16, -77.52], 4.3 SW WHITES FERRY [39.16, -77.54], 6.3 WSW POOLESVILLE [39.12, -77.53], 6.0 SSW POOLESVILLE [39.07, -77.46], 1.7 SSW SENECA [39.06, -77.34]

	12/16/18 15:07 EST		0	Flood (due to Heavy Rain)
	12/18/18 17:00 EST		0	Source: River/Stream Gage

The river gage on the Potomac River at Edwards Ferry exceeded the 15 foot flood stage during the indicated period. The basements at Edwards Ferry Lockhouse and Rileys Lockhouse were flooded. Backwater flooding affected homes on the Loudoun County side of the river near Broad Run in Sterling. Additionally, the parking lots at Edwards Ferry and Seneca were flooded, along with the store at Whites Ferry. The peak level of 20.98 feet occurred at 9:00 AM on December 17th.

FREDERICK COUNTY --- 1.8 S TUSCARORA [39.22, -77.48], 1.3 S POINTS OF ROCKS [39.26, -77.55], 0.2 SSW CATOCTIN STATION [39.30, -77.57], 1.4 SW BRUNSWICK [39.31, -77.65], 0.8 WSW BRUNSWICK [39.31, -77.64], 0.7 SW CATOCTIN [39.31, -77.56], 1.4 S PLEASANT VIEW [39.26, -77.50], 2.3 SE TUSCARORA [39.22, -77.44]

	12/16/18 16:08 EST		0	Flood (due to Heavy Rain)
	12/18/18 04:55 EST		0	Source: River/Stream Gage

The river gage on the Potomac River at Point of Rocks exceeded the 16 foot flood stage during the indicated period. Water covered the C&O towpath near Point of Rocks and Brunswick. Many low lying fields, as well as some boat launch ramps and parking lots, were also flooded. The peak level of 22.40 feet occurred at 7:45 AM on December 17th.

MONTGOMERY COUNTY --- 0.8 WNW GLEN ECHO [38.97, -77.14], 1.6 WNW CARDEROCK [38.99, -77.23], 1.1 W GLEN [39.05, -77.24], 1.7 SW SENECA [39.07, -77.36], 2.6 WSW POTOMAC [39.01, -77.27], 2.4 W CARDEROCK [38.98, -77.24], 1.2 WNW KENWOOD [38.95, -77.15], 1.5 S BROOKMONT [38.93, -77.12]

	12/17/18 00:09 EST		0	Flood (due to Heavy Rain)
	12/18/18 06:24 EST		0	Source: River/Stream Gage

Storm Data and Unusual Weather Phenomena - December 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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The river gage on the Potomac River at Little Falls exceeded the 10 foot flood stage during the indicated period. Water covered many locations along the C&O Canal towpath, and many hiking trails along the Potomac between Pennyfield Lock and Little Falls were closed as a result of the flooding. The peak level of 11.56 feet occurred at 1:00 PM on December 17th.

A potent upper-level low and associated area of surface low pressure approached the region from southwest on the 15th. Strong forcing for ascent and ample moisture transport in advance of the upper-level low led to a prolonged period of rain across the region. Eventually low pressure transferred to the coast before precipitation wound down on the 16th. Widespread rainfall totals of 2-4 inches were observed across the area.

(MD-Z017) ST. MARY'S

12/21/18 12:30 EST	0	Coastal Flood
12/21/18 13:30 EST	0	

Increased southerly and onshore flow led to increased water level anomalies and coastal flooding along the tidal Potomac and Chesapeake Bay.

MONTGOMERY COUNTY --- 0.9 NW GAITHERSBURG [39.14, -77.21]

12/21/18 15:54 EST	0	Thunderstorm Wind (EG 50 kt)
12/21/18 15:54 EST	0	Source: Emergency Manager

A tree was blown down blocking the right lane and shoulder of southbound I-270 near Exit 10 for westbound MD-117.

FREDERICK COUNTY --- 0.9 SW URBANA [39.32, -77.36]

12/21/18 16:47 EST	0	Thunderstorm Wind (EG 50 kt)
12/21/18 16:47 EST	0	Source: Broadcast Media

A tree was blown down on I-270 near Exit 26 for MD-80 Fingerboard Road.

CARROLL COUNTY --- EASTVIEW [39.52, -76.95]

12/21/18 16:48 EST	0	Hail (1.00 in)
12/21/18 16:48 EST	0	Source: Trained Spotter

Quarter size hail was reported on the southeast side of Westminster.

FREDERICK COUNTY --- 0.7 S PLANE NUMBER FOUR [39.37, -77.20]

12/21/18 16:56 EST	0	Thunderstorm Wind (EG 50 kt)
12/21/18 16:56 EST	0	Source: Emergency Manager

A tree was blown down near the intersection of Bill Moxley Road and Autumn Crest Drive.

FREDERICK COUNTY --- 1.9 ENE UNIONVILLE [39.49, -77.15]

12/21/18 17:06 EST	0	Thunderstorm Wind (EG 50 kt)
12/21/18 17:06 EST	0	Source: Emergency Manager

A tree was blown down near the intersection of Barnes Road and Oak Orchard Road.

CARROLL COUNTY --- 1.3 WNW SAMS CREEK [39.51, -77.12]

12/21/18 17:08 EST	0	Thunderstorm Wind (EG 50 kt)
12/21/18 17:08 EST	0	Source: Emergency Manager

A tree was blown down in the 3500 block of Sams Creek Road.

CARROLL COUNTY --- 2.1 N WATERSVILLE [39.40, -77.10]

12/21/18 17:08 EST	0	Thunderstorm Wind (EG 50 kt)
12/21/18 17:08 EST	0	Source: State Official

A tree was blown down near the intersection of Gillis Falls Road and Davis Road.

FREDERICK COUNTY --- 2.9 SE EMMITSBURG [39.68, -77.29]

12/21/18 17:09 EST	0	Thunderstorm Wind (EG 50 kt)
12/21/18 17:09 EST	0	Source: Emergency Manager

A tree was blown down on Toms Creek Road near Simmons Road.

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CARROLL COUNTY --- 0.9 NW FRIZZELLBURG [39.61, -77.08]				
	12/21/18 17:15 EST	0		Thunderstorm Wind (EG 50 kt)
	12/21/18 17:15 EST	0		Source: Law Enforcement
A tree was blown down blocking MD-832 Old Taneytown Road near Richardson Road.				
<p>A surface low tracked northeastward through the Appalachians as a potent jetstreak in the upper levels shifted northward. Unseasonably warm and moist air was transported northward and this, in combination with colder air moving in at the mid-levels, caused the atmosphere to destabilize, resulting in showers and thunderstorms. A few of these storms became locally severe.</p>				
MONTGOMERY COUNTY --- 0.7 SSW SENECA [39.07, -77.33], 4.3 SSW POOLESVILLE [39.09, -77.45], 3.9 SW WHITES FERRY [39.16, -77.52], 4.5 SW WHITES FERRY [39.16, -77.53], 5.9 WSW POOLESVILLE [39.12, -77.52], 4.7 SW POOLESVILLE [39.10, -77.48], 5.9 SSW POOLESVILLE [39.07, -77.46], 1.7 S SENECA [39.06, -77.34]				
	12/22/18 20:03 EST	0		Flood (due to Heavy Rain)
	12/23/18 23:37 EST	0		Source: River/Stream Gage
The river gage on the Potomac River at Edwards Ferry exceeded the 15 foot flood stage during the indicated period. Water reached the boat ramp and lower parking area at Edwards Ferry, and began to inundate areas near Whites Ferry. The peak level of 16.08 feet occurred at 9:00 AM on the 23rd.				
<p>Following immediately on the heels of the system that produced flooding on the 20th in VA, another wave of low pressure tracked up along the spine of the Appalachians on the 21st. Showers and thunderstorms moved across the area during the afternoon hours of the 21st, locally producing an additional 1-2 inches of rain on top of previously saturated soils. This rainfall eventually led to some larger-stem river flooding on the 22nd and 23rd as the runoff drained downstream.</p>				
(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z006) NORTHERN BALTIMORE, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z013) PRINCE GEORGES, (MD-Z014) ANNE ARUNDEL, (MD-Z016) CHARLES, (MD-Z018) CALVERT, (MD-Z502) CENTRAL AND EASTERN ALLEGANY, (MD-Z503) NORTHWEST MONTGOMERY, (MD-Z504) CENTRAL AND SOUTHEAST MONTGOMERY, (MD-Z505) NORTHWEST HOWARD, (MD-Z506) CENTRAL AND SOUTHEAST HOWARD				
	12/28/18 18:43 EST	0		Dense Fog
	12/29/18 08:56 EST	0		
Clearing skies, falling temperatures, and abundant low level moisture led to the formation of dense fog.				
VIRGINIA, North				
(VA-Z027) SHENANDOAH, (VA-Z028) FREDERICK, (VA-Z030) WARREN, (VA-Z031) CLARKE, (VA-Z051) CULPEPER, (VA-Z052) PRINCE WILLIAM, (VA-Z502) SOUTHERN FAUQUIER				
	12/02/18 20:55 EST	0		Dense Fog
	12/03/18 08:53 EST	0		
Cool, moist easterly flow underneath warm air advection aloft led to the formation of fog, some of which became locally dense.				
(VA-Z503) WESTERN HIGHLAND, (VA-Z504) EASTERN HIGHLAND, (VA-Z508) CENTRAL VIRGINIA BLUE RIDGE				
	12/04/18 21:00 EST	0		Winter Weather
	12/05/18 16:00 EST	0		
An upper level disturbance tracked eastward from the Ohio Valley in the morning of December 5th. This moved across the region during the morning hours, aided by the left front quadrant of an upper jetmax. The disturbance then exited during the afternoon hours. Areas of light snow moved across portions of the region, although meaningful accumulations were confined to the higher elevations.				
(VA-Z025) AUGUSTA, (VA-Z036) NELSON, (VA-Z037) ALBEMARLE, (VA-Z038) GREENE, (VA-Z039) MADISON, (VA-Z050) ORANGE, (VA-Z055) STAFFORD, (VA-Z056) SPOTSYLVANIA, (VA-Z057) KING GEORGE, (VA-Z508) CENTRAL VIRGINIA BLUE RIDGE				
	12/09/18 09:00 EST	0		Winter Storm
	12/09/18 21:00 EST	0		
(VA-Z026) ROCKINGHAM, (VA-Z029) PAGE, (VA-Z040) RAPPAHANNOCK, (VA-Z051) CULPEPER, (VA-Z502) SOUTHERN FAUQUIER, (VA-Z503) WESTERN HIGHLAND, (VA-Z504) EASTERN HIGHLAND, (VA-Z507) NORTHERN VIRGINIA BLUE RIDGE				

Storm Data and Unusual Weather Phenomena - December 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	12/09/18 09:00 EST		0	Winter Weather
	12/09/18 21:00 EST		0	

An area of low pressure developed along the Gulf Coast on December 8th and tracked northeastward along the North and South Carolina coastlines during the daytime hours on the 9th, strengthening to around 1000mb by the evening. The low then exited eastward off the coast of Cape Hatteras and weakened on the night of the 9th. Widespread significant snow was brought to central Virginia, with a sharp cutoff to completely dry conditions across far northern Virginia.

FAIRFAX COUNTY --- 1.7 NNE VIENNA [38.92, -77.26], 1.7 SSE KENMORE [38.93, -77.26], 1.7 S KENMORE [38.93, -77.26], 1.7 N VIENNA [38.92, -77.27]				
	12/15/18 10:30 EST		0	Flood (due to Heavy Rain)
	12/15/18 15:15 EST		0	Source: Emergency Manager

Old Courthouse Road closed near intersection with Besley Road due to flooding.

FAIRFAX COUNTY --- 0.4 SW CLARKS CROSSING [38.92, -77.30], 0.3 SW CLARKS CROSSING [38.92, -77.30], 0.2 SW CLARKS CROSSING [38.92, -77.30], 0.3 WSW CLARKS CROSSING [38.92, -77.30]				
	12/15/18 12:15 EST		0	Flood (due to Heavy Rain)
	12/15/18 15:15 EST		0	Source: Emergency Manager

Hunter Mill Road closed near intersection with Lawyers Road due to flooding.

FAIRFAX COUNTY --- 1.0 WSW TREMONT [38.85, -77.24], 0.9 WSW TREMONT [38.85, -77.24], 1.0 WSW TREMONT [38.85, -77.24], 1.0 WSW TREMONT [38.85, -77.24]				
	12/15/18 12:15 EST		0	Flood (due to Heavy Rain)
	12/15/18 15:15 EST		0	Source: Emergency Manager

Woodburn Road closed due to flooding between Spicewood Drive and Robey Avenue.

MADISON COUNTY --- 1.1 ESE DUET [38.47, -78.25], 0.8 SW SYRIA [38.47, -78.34], 1.1 NNE ETLAN [38.55, -78.28], 2.2 ENE PEOLA MILLS [38.55, -78.24], 2.0 E PEOLA MILLS [38.53, -78.23]				
	12/15/18 12:25 EST		0	Flood (due to Heavy Rain)
	12/15/18 14:25 EST		0	Source: Department of Highways

VA-642 (Duet Road) closed due to high water near VA-603 (Whipoorwill Road). VA-600 Bohannon Road closed due to high water between Old Blue Ridge Turnpike and Nethers Road. VA-602 (Hughes River Road) closed due to high water near VA-231 (S F T Valley Road). VA-644 (Emmett Road) closed due to high water near VA-646 (Champe Plain Road).

MADISON COUNTY --- 2.5 SSW BRIGHTWOOD [38.39, -78.22], 2.2 SSW BRIGHTWOOD [38.39, -78.22], 2.2 SSW BRIGHTWOOD [38.39, -78.22], 2.5 SSW BRIGHTWOOD [38.39, -78.22]				
	12/15/18 12:25 EST		0	Flood (due to Heavy Rain)
	12/15/18 14:25 EST		0	Source: Department of Highways

VA-680 (Gate Road) closed due to high water east of US-29 (Seminole Trail).

LOUDOUN COUNTY --- 1.7 ESE LEESBURG [39.11, -77.52], 1.7 ESE LEESBURG [39.11, -77.52], 1.6 ESE LEESBURG [39.11, -77.52], 1.6 ESE LEESBURG [39.11, -77.52]				
	12/15/18 12:42 EST		0	Flood (due to Heavy Rain)
	12/15/18 14:42 EST		0	Source: Broadcast Media

Edwards Ferry Road NE closed between Battlefield Parkway and Red Rock Way.

FAIRFAX COUNTY --- 0.5 E DONOVANS CORNER [38.77, -77.31], 0.6 E DONOVANS CORNER [38.77, -77.31], 0.7 E DONOVANS CORNER [38.77, -77.31], 0.6 E DONOVANS CORNER [38.77, -77.31]				
	12/15/18 12:45 EST		0	Flood (due to Heavy Rain)
	12/15/18 15:15 EST		0	Source: Emergency Manager

Burke Lake Road closed near intersection with Kilkenny Lane due to flooding.

LOUDOUN COUNTY --- 1.4 S LEESBURG MUNI [39.06, -77.55], 1.4 S LEESBURG MUNI [39.06, -77.55], 1.2 S LEESBURG MUNI [39.06, -77.55], 1.3 S LEESBURG MUNI [39.06, -77.55]				
	12/15/18 12:53 EST		0	Flood (due to Heavy Rain)
	12/15/18 14:53 EST		0	Source: Broadcast Media

Storm Data and Unusual Weather Phenomena - December 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Shreve Mill Road closed west of Sycolin Road due to flooding.				
CULPEPER COUNTY --- 0.4 W MONUMENT MILLS [38.60, -78.01], 0.3 W MONUMENT MILLS [38.60, -78.01], 0.4 WSW MONUMENT MILLS [38.60, -78.01], 0.5 WSW MONUMENT MILLS [38.60, -78.01]				
	12/15/18 13:51 EST		0	Flood (due to Heavy Rain)
	12/15/18 15:51 EST		0	Source: Department of Highways
Hazel River Road closed near Monumental Mills Road due to high water.				
PRINCE WILLIAM COUNTY --- 1.0 SSE NOKESVILLE [38.69, -77.57], 1.1 SSE NOKESVILLE [38.68, -77.58], 1.2 SSE NOKESVILLE [38.68, -77.57], 1.1 SSE NOKESVILLE [38.68, -77.57]				
	12/15/18 15:57 EST		0	Flood (due to Heavy Rain)
	12/15/18 17:57 EST		0	Source: Emergency Manager
Aden Road at Parkgate Drive closed as a result of flooding.				
FAIRFAX COUNTY --- 0.1 WNW SIDEBURN [38.80, -77.30], 0.1 W SIDEBURN [38.80, -77.30], 0.1 WSW SIDEBURN [38.80, -77.30], 0.0 W SIDEBURN [38.80, -77.30]				
	12/15/18 16:46 EST		0	Flood (due to Heavy Rain)
	12/15/18 18:46 EST		0	Source: Emergency Manager
New Guinea Road (10000 block) closed due to flooding.				
LOUDOUN COUNTY --- 1.1 E MOUNTVILLE [39.03, -77.68], 1.6 W OATLANDS [39.03, -77.65], 1.7 W OATLANDS [39.03, -77.65], 1.1 ENE MOUNTVILLE [39.03, -77.68]				
	12/15/18 18:04 EST		0	Flood (due to Heavy Rain)
	12/15/18 20:04 EST		0	Source: Emergency Manager
Lime Kiln Road (38000 block) closed due to flooding/vehicle in the water.				
LOUDOUN COUNTY --- 0.9 SE PHILOMONT [39.04, -77.72], 0.9 SSE PHILOMONT [39.04, -77.72], 1.0 SSE PHILOMONT [39.04, -77.72], 1.0 SE PHILOMONT [39.04, -77.72]				
	12/15/18 18:05 EST		0	Flood (due to Heavy Rain)
	12/15/18 20:05 EST		0	Source: Department of Highways
Snickersville Turnpike at Hibbs Bridge Road closed due to flooding.				
PRINCE WILLIAM COUNTY --- 1.2 NNW YORKSHIRE [38.80, -77.44], 0.5 NNW YORKSHIRE [38.79, -77.44], 0.3 W YORKSHIRE [38.78, -77.44], 0.1 WNW YORKSHIRE [38.78, -77.43], 0.6 NNW YORKSHIRE [38.79, -77.43], 1.2 NNW YORKSHIRE [38.80, -77.44]				
	12/15/18 18:06 EST		0	Flood (due to Heavy Rain)
	12/16/18 18:35 EST		0	Source: River/Stream Gage
The stream gage on Bull Run at Manassas Park exceeded the 12 foot flood stage during the indicated period. Backyards were flooded along Lake Drive in Manassas, along with much of the Bull Run trail system. The peak level of 15.63 feet occurred at 7:38 AM on the 16th.				
PRINCE WILLIAM COUNTY --- 0.8 N BRISTOW [38.73, -77.53], 0.5 N BRISTOW [38.73, -77.53], 0.5 NNW BRISTOW [38.73, -77.53], 0.8 N BRISTOW [38.73, -77.53]				
	12/15/18 18:10 EST		0	Flood (due to Heavy Rain)
	12/16/18 10:13 EST		0	Source: River/Stream Gage
The stream gage on the Broad Run at Bristow exceeded the 9.5 foot flood stage during the indicated period. Piper Lane flooded near Manassas Airport and trails along the stream were also flooded. The peak level of 13.35 feet occurred at 11:07 PM on the 15th.				
PRINCE WILLIAM COUNTY --- 1.2 NNW YORKSHIRE [38.80, -77.44], 0.5 NW YORKSHIRE [38.79, -77.44], 0.4 WSW YORKSHIRE [38.78, -77.44], 0.2 WSW YORKSHIRE [38.78, -77.43], 0.5 NNW YORKSHIRE [38.79, -77.43], 1.2 NNW YORKSHIRE [38.80, -77.44]				
	12/15/18 18:14 EST		0	Flood (due to Heavy Rain)
	12/15/18 20:14 EST		0	Source: Emergency Manager
Lake Drive closed from Dead End to Pine Street due to flooding.				
PRINCE WILLIAM COUNTY --- 1.1 S BRISTOW [38.70, -77.53], 1.3 S BRISTOW [38.70, -77.53], 1.2 S BRISTOW [38.70, -77.53], 1.1 S BRISTOW [38.70, -77.53]				

Storm Data and Unusual Weather Phenomena - December 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	12/15/18 18:37 EST		0	Flood (due to Heavy Rain)
	12/15/18 20:37 EST		0	Source: Emergency Manager

Valley View Drive at Bristow Road closed due to flooding.

PRINCE WILLIAM COUNTY --- 2.5 SW ADEN [38.62, -77.56], 2.2 SSW ADEN [38.62, -77.55], 2.7 SSW ADEN [38.61, -77.55], 3.0 SSW ADEN [38.61, -77.56]

	12/15/18 18:44 EST		0	Flood (due to Heavy Rain)
	12/16/18 19:30 EST		0	Source: River/Stream Gage

The stream gage on Cedar Run at Aden exceeded the 10 foot flood stage during the indicated period, flooding Fleetwood Drive near Cedar Run. The peak level of 11.80 feet occurred at 7:06 AM on the 16th.

FREDERICK COUNTY --- 2.6 SE BURNING KNOLLS [39.15, -78.09], 2.6 SE BURNING KNOLLS [39.15, -78.09], 2.7 SE BURNING KNOLLS [39.15, -78.09], 2.7 SE BURNING KNOLLS [39.15, -78.09]

	12/15/18 18:48 EST		0	Flood (due to Heavy Rain)
	12/15/18 20:48 EST		0	Source: Department of Highways

Sulphur Springs Road between Millwood Pike and Opequon Road closed due to flooding.

CULPEPER COUNTY --- 1.5 WSW MONUMENT MILLS [38.59, -78.03], 1.5 WSW MONUMENT MILLS [38.59, -78.03], 0.3 WSW MONUMENT MILLS [38.60, -78.01], 0.4 W MONUMENT MILLS [38.60, -78.01]

	12/15/18 18:52 EST		0	Flood (due to Heavy Rain)
	12/15/18 20:52 EST		0	Source: Department of Highways

Hazel River Road closed due to flooding.

PRINCE WILLIAM COUNTY --- 0.6 WSW BRENTSVILLE [38.68, -77.51], 0.5 WSW BRENTSVILLE [38.68, -77.51], 0.5 WSW BRENTSVILLE [38.68, -77.51], 0.6 WSW BRENTSVILLE [38.68, -77.51]

	12/15/18 18:54 EST		0	Flood (due to Heavy Rain)
	12/15/18 20:54 EST		0	Source: Emergency Manager

Old Church Road at Oxfordshire Drive closed due to flooding.

LOUDOUN COUNTY --- 0.4 SSE OATLANDS [39.02, -77.62], 1.6 E MOUNTVILLE [39.03, -77.67], 1.5 SE MOUNTVILLE [39.02, -77.68], 1.0 SE MOUNTVILLE [39.02, -77.69], 1.1 ENE MOUNTVILLE [39.04, -77.68], 1.6 NNW OATLANDS [39.04, -77.65], 0.3 NE OATLANDS [39.03, -77.62]

	12/15/18 19:38 EST		0	Flood (due to Heavy Rain)
	12/16/18 18:06 EST		0	Source: River/Stream Gage

The stream gage on Goose Creek at Leesburg exceeded the 12 foot flood stage during the indicated period. Water approached low spots along State Route 733 (Lime Kiln Road). Water was in the backyards of homes near Highway 15 and reached the underside of two low bridges over the creek at Crooked Bridge Lane. The peak level of 14.75 feet occurred at 08:15 AM on the 16th.

FAUQUIER COUNTY --- 3.7 NNW SUMERDUCK [38.47, -77.78], 2.8 S REMINGTON [38.49, -77.79], 0.9 WSW REMINGTON [38.53, -77.82], 0.3 NW REMINGTON [38.53, -77.80], 0.1 NNW REMINGTON [38.53, -77.80], 3.0 SSE REMINGTON [38.49, -77.78], 3.5 NNW SUMERDUCK [38.48, -77.77]

	12/15/18 19:48 EST		0	Flood (due to Heavy Rain)
	12/17/18 04:19 EST		0	Source: River/Stream Gage

The river gage on the Rappahannock River at Remington exceeded the 15 foot flood stage during the indicated period. Water reached the top of the boat ramp at Kellys Ford. Tin Pot Lane and Summerduck Road were flooded due to backwater effects on Tin Pot Run. The peak level of 18.45 feet occurred at 2:45 PM on the 16th.

FAIRFAX COUNTY --- 0.6 SSW TREMONT [38.84, -77.22], 0.9 S TREMONT [38.84, -77.22], 0.9 S TREMONT [38.84, -77.22], 0.4 S TREMONT [38.84, -77.22], 0.7 SW TREMONT [38.84, -77.23], 1.0 WSW TREMONT [38.85, -77.24], 1.1 WSW TREMONT [38.85, -77.24], 0.9 SW TREMONT [38.84, -77.23]

	12/15/18 20:06 EST		0	Flood (due to Heavy Rain)
	12/15/18 23:40 EST		0	Source: River/Stream Gage

The stream gage on Accotink Creek at Annandale exceeded the 9.5 foot flood stage during the indicated period. Woodburn Road was flooded, as well as trails along the creek. The peak level of 10.03 feet occurred at 10:15 PM on the 15th.

FAIRFAX COUNTY --- 0.2 N CLIFTON [38.78, -77.38], 0.2 N CLIFTON [38.78, -77.38], 0.2 NNE CLIFTON [38.78, -77.38], 0.2 NE CLIFTON [38.78, -77.38]

	12/15/18 20:10 EST		0	Flood (due to Heavy Rain)
	12/15/18 22:10 EST		0	Source: Fire Department/Rescue

Storm Data and Unusual Weather Phenomena - December 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Water rescue on Chapel Road near Cold Point Road. Car stranded in high water.				
PRINCE WILLIAM COUNTY --- 1.3 ENE HICKORY GROVE [38.91, -77.61], 1.4 ENE HICKORY GROVE [38.91, -77.61], 1.6 ENE HICKORY GROVE [38.91, -77.61], 1.4 NE HICKORY GROVE [38.91, -77.61]				
	12/15/18 20:15 EST	0		Flood (due to Heavy Rain)
	12/15/18 22:15 EST	0		Source: Emergency Manager
Water rescue on Little River Road near the Prince William/Loudoun County line. Submerged vehicle with four occupants, self rescued.				
PRINCE WILLIAM COUNTY --- 2.8 SSW ADEN [38.61, -77.56], 2.7 SSW ADEN [38.61, -77.55], 2.4 SSW ADEN [38.62, -77.55], 2.5 SW ADEN [38.62, -77.56]				
	12/15/18 21:20 EST	0		Flood (due to Heavy Rain)
	12/15/18 23:20 EST	0		Source: Emergency Manager
Fleetwood Drive near Sowego Road impassable due to flooding.				
FREDERICK COUNTY --- 1.3 WSW SILER [39.34, -78.27], 0.9 S CEDAR GROVE [39.26, -78.20], 2.6 NE GREEN SPG [39.33, -78.14], 2.5 NE SILER [39.37, -78.22]				
	12/15/18 21:28 EST	0		Flood (due to Heavy Rain)
	12/15/18 23:28 EST	0		Source: Department of Highways
Numerous roads closed due to flooding in Frederick County VA, particularly north of US Route 522 and west of Interstate 81, including Adams Road, Green Spring Road, Hunting Ridge Road, and Cattail Road.				
PRINCE WILLIAM COUNTY --- 1.9 SSW CATHARPIN [38.82, -77.58], 1.7 SSW CATHARPIN [38.83, -77.58], 1.7 S CATHARPIN [38.83, -77.57], 1.9 S CATHARPIN [38.82, -77.57]				
	12/15/18 21:30 EST	0		Flood (due to Heavy Rain)
	12/15/18 23:30 EST	0		Source: Emergency Manager
Artemus Road at Pageland Lane is closed due to flooding.				
FREDERICK COUNTY --- 1.8 NE MOUNTAIN FALLS [39.14, -78.38], 2.1 NE MOUNTAIN FALLS [39.14, -78.38], 2.0 NNE MOUNTAIN FALLS [39.15, -78.38], 1.7 NNE MOUNTAIN FALLS [39.14, -78.38]				
	12/15/18 22:08 EST	0		Flood (due to Heavy Rain)
	12/16/18 00:08 EST	0		Source: State Official
High water reported in the 4000 block of Back Mountain Road in vicinity of Pifer Run.				
PRINCE WILLIAM COUNTY --- 1.8 ESE CATHARPIN [38.84, -77.54], 1.7 ESE CATHARPIN [38.84, -77.54], 1.6 ESE CATHARPIN [38.84, -77.54], 1.7 ESE CATHARPIN [38.84, -77.54]				
	12/15/18 22:41 EST	0		Flood (due to Heavy Rain)
	12/16/18 00:41 EST	0		Source: Emergency Manager
Featherbed Lane closed at Sudley Road as a result of flooding.				
PRINCE WILLIAM COUNTY --- 1.0 N BRISTOW [38.73, -77.53], 0.4 NNW BRISTOW [38.72, -77.53], 0.4 N BRISTOW [38.73, -77.53], 1.1 N BRISTOW [38.74, -77.53]				
	12/15/18 22:49 EST	0		Flood (due to Heavy Rain)
	12/16/18 00:49 EST	0		Source: Emergency Manager
Piper Lane closed as a result of flooding.				
LOUDOUN COUNTY --- 1.4 WNW WATERFORD [39.18, -77.63], 1.1 NW WATERFORD [39.19, -77.62], 1.8 NW WATERFORD [39.20, -77.62], 1.8 NNW WATERFORD [39.20, -77.62], 0.9 NW WATERFORD [39.19, -77.61], 1.1 W WATERFORD [39.18, -77.62]				
	12/15/18 23:34 EST	0		Flood (due to Heavy Rain)
	12/16/18 05:43 EST	0		Source: River/Stream Gage
The stream gage on the South Fork of the Catoctin Creek near Waterford exceeded the 8 foot flood stage during the indicated period. Lowland fields near the creek were flooded. The peak level of 8.45 feet occurred at 1:00 AM on the 16th.				
CULPEPER COUNTY --- 0.8 NW RAPIDAN [38.33, -78.08], 2.6 NW RAPIDAN [38.34, -78.11], 3.3 NW RAPIDAN [38.35, -78.11], 3.3 NW RAPIDAN [38.35, -78.11], 1.8 NW RAPIDAN [38.34, -78.09], 0.8 NW RAPIDAN [38.33, -78.08]				

Storm Data and Unusual Weather Phenomena - December 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	12/16/18 01:21 EST		0	Flood (due to Heavy Rain)
	12/16/18 06:23 EST		0	Source: River/Stream Gage

The river gage on the Robinson River at Locust Dale exceeded the 11 foot flood stage during the indicated period. Water covered a portion of Route 721 (Robinson River Road). Agricultural flooding was also observed. The peak level of 11.91 feet occurred at 3:45 AM on the 16th.

PRINCE WILLIAM COUNTY --- 0.6 WNW INDEPENDENT HILL [38.63, -77.44], 1.2 SE KEPP [38.57, -77.43], 0.8 SSW JOPLIN [38.56, -77.38], 0.4 NW INDEPENDENT HILL [38.63, -77.43]

	12/16/18 01:26 EST		0	Flood (due to Heavy Rain)
	12/16/18 03:26 EST		0	Source: Department of Highways

Joplin Road from Bristow Road to Liming Lane closed due to flooding.

PRINCE WILLIAM COUNTY --- 2.2 WSW NOKESVILLE [38.69, -77.62], 0.9 NW NOKESVILLE [38.71, -77.59], 2.4 N NOKESVILLE [38.73, -77.59], 2.6 NNW NOKESVILLE [38.74, -77.60], 2.3 W NOKESVILLE [38.70, -77.62]

	12/16/18 01:26 EST		0	Flood (due to Heavy Rain)
	12/16/18 03:26 EST		0	Source: Department of Highways

Reid Lane closed from Fauquier Drive to Vint Hill Road due to flooding.

CLARKE COUNTY --- 4.0 NNW BOYCE [39.15, -78.09], 4.0 NW BOYCE [39.15, -78.09], 3.9 NNW BOYCE [39.15, -78.09], 3.9 NNW BOYCE [39.15, -78.09]

	12/16/18 01:47 EST		0	Flood (due to Heavy Rain)
	12/16/18 03:47 EST		0	Source: State Official

Opequon Road closed near Clarke and Frederick County line due to flooding.

FREDERICKSBURG (C) COUNTY --- 1.0 ESE FREDERICKSBURG [38.29, -77.45], 0.8 E FREDERICKSBURG [38.30, -77.46], 0.8 NE FREDERICKSBURG [38.31, -77.46], 1.3 N FREDERICKSBURG [38.32, -77.47], 1.4 N FREDERICKSBURG [38.32, -77.47], 1.2 NNE FREDERICKSBURG [38.32, -77.46], 0.9 ENE FREDERICKSBURG [38.31, -77.46], 1.1 ESE FREDERICKSBURG [38.30, -77.45]

	12/16/18 02:18 EST		0	Flood (due to Heavy Rain)
	12/17/18 07:19 EST		0	Source: River/Stream Gage

The river gage on the Rappahannock River at Fredericksburg exceeded the 13 foot flood stage during the indicated period. The City Dock in Fredericksburg was flooded and closed. Water entered the basement of a home near Fredericksburg City Dock, as well as a guest house off of Caroline Street. The Old Mill Park maintenance facility was flooded. Old Mill Park was flooded and inaccessible by car. Water also reached River Road on the east side of the river. The peak level of 15.20 feet occurred at 7:25 PM on the 16th.

FAUQUIER COUNTY --- 1.3 S CATLETT [38.63, -77.63], 1.0 SSE CATLETT [38.64, -77.62], 0.8 SSE CATLETT [38.64, -77.62], 0.8 SSE CATLETT [38.64, -77.62], 1.1 S CATLETT [38.63, -77.63]

	12/16/18 04:15 EST		0	Flood (due to Heavy Rain)
	12/16/18 05:15 EST		0	Source: River/Stream Gage

The stream gage on Cedar Run at Catlett exceeded the 12 foot flood stage during the indicated period. Water overflowed the banks into the lowlands. The peak level of 12.02 feet occurred at 4:30 AM on the 16th.

A potent upper-level low and associated area of surface low pressure approached the region from southwest on the 15th. Strong forcing for ascent and ample moisture transport in advance of the upper level low led to a prolonged period of rain across the region. Eventually low pressure transferred to the coast before precipitation wound down on the 16th. Widespread rainfall totals of 2-4 inches were observed across the area.

NELSON COUNTY --- 2.2 WSW BUFFALO MINES [37.72, -79.07], 2.1 WSW BUFFALO MINES [37.72, -79.06], 2.0 WSW BUFFALO MINES [37.72, -79.06], 2.1 WSW BUFFALO MINES [37.72, -79.07]

	12/20/18 20:28 EST		0	Flood (due to Heavy Rain)
	12/20/18 22:28 EST		0	Source: Emergency Manager

Road closure reported near the intersection of Lowesville Road and Woodson Road due to flooding along the Piney River.

AUGUSTA COUNTY --- 0.9 WSW BRAND [38.11, -79.01], 0.8 WSW BRAND [38.11, -79.01], 0.9 WSW BRAND [38.12, -79.01], 0.9 WSW BRAND [38.11, -79.02]

	12/20/18 23:00 EST		0	Flood (due to Heavy Rain)
	12/21/18 01:00 EST		0	Source: State Official

Five to six inches of water flowing across US-250 (Jefferson Highway) between Desper Hollow Road and VA-637 (Jericho Road).

Storm Data and Unusual Weather Phenomena - December 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
NELSON COUNTY --- 0.6 S GREENFIELD [37.92, -78.85], 0.4 WSW GREENFIELD [37.93, -78.86], 0.3 SW GREENFIELD [37.93, -78.85], 0.6 SSE GREENFIELD [37.92, -78.85]				
	12/20/18 23:41 EST		0	Flood (due to Heavy Rain)
	12/21/18 01:41 EST		0	Source: Department of Highways

VA-635 Rockfish School Lane closed due to flooding near VA-151 Rockfish Valley Highway.

ALBEMARLE COUNTY --- 1.0 SE YANCEY MILLS [38.04, -78.72], 1.0 WNW MIDWAY [38.04, -78.72], 0.9 WNW MIDWAY [38.04, -78.71], 1.0 SE YANCEY MILLS [38.04, -78.72]				
	12/20/18 23:56 EST		0	Flood (due to Heavy Rain)
	12/21/18 01:56 EST		0	Source: Department of Highways

VA-824 (Patterson Mill Lane) closed due to flooding near Stockton Creek between US-250 (Rockfish Gap Turnpike) and VA-688 (Midway Road).

ALBEMARLE COUNTY --- 3.6 N IVY [38.10, -78.59], 3.6 N IVY [38.10, -78.59], 3.7 N IVY [38.10, -78.59], 3.7 N IVY [38.10, -78.59]				
	12/21/18 00:15 EST		0	Flood (due to Heavy Rain)
	12/21/18 09:00 EST		0	Source: Mesonet

The stream gauge on Mechums River near White Hall was above minor flood stage of 11 feet during the indicated period. It peaked at 13.98 feet at 5:15 AM on the 21st.

CULPEPER COUNTY --- 0.8 NW RAPIDAN [38.33, -78.08], 2.6 NW RAPIDAN [38.34, -78.11], 3.2 NW RAPIDAN [38.35, -78.11], 3.3 NW RAPIDAN [38.35, -78.11], 1.7 NW RAPIDAN [38.34, -78.09], 0.8 NW RAPIDAN [38.33, -78.08]				
	12/21/18 06:18 EST		0	Flood (due to Heavy Rain)
	12/21/18 12:01 EST		0	Source: River/Stream Gage

The river gage on the Robinson River at Locust Dale exceeded the 11 foot flood stage during the indicated period. Water covered a portion of Route 721 (Robinson River Road). Agricultural flooding was also observed. The peak level of 11.83 feet occurred at 9:00 AM on the 21st.

AUGUSTA COUNTY --- 0.4 S MT MERIDIAN [38.26, -78.87], 1.8 SSW MT MERIDIAN [38.25, -78.89], 2.0 S MT MERIDIAN [38.24, -78.87], 0.8 SE MT MERIDIAN [38.26, -78.86]				
	12/21/18 11:15 EST		0	Flood (due to Heavy Rain)
	12/21/18 17:22 EST		0	Source: River/Stream Gage

The river gage on the Middle River at Grottoes exceeded the 12 foot flood stage during the indicated period. Fields along the river were flooded. The peak level of 12.24 feet occurred at 2:00 PM on the 21st.

A potent longwave trough approached the area from the west on the 20th. Warm advection and strong moisture transport ahead of the mid-upper level wave led to a prolonged period of rainfall through the day as surface low pressure tracked from the FL Panhandle to WV by evening. Rainfall totals on the order of 1-2 inches led to instances of flooding across portions of Augusta, Nelson and Albemarle Counties in VA.

LOUDOUN COUNTY --- 1.4 N OATLANDS [39.05, -77.62]				
	12/21/18 16:15 EST		0	Thunderstorm Wind (EG 50 kt)
	12/21/18 16:15 EST		0	Source: Broadcast Media

A tree was blown down on a car on US-15 James Monroe Highway near VA-651 Hogback Mountain Road. A second tree was also blown down on US-15 near VA-733 Lime Kiln Road.

LOUDOUN COUNTY --- 1.1 W STERLING [39.00, -77.45]				
	12/21/18 16:23 EST		0	Thunderstorm Wind (EG 50 kt)
	12/21/18 16:23 EST		0	Source: NWS Employee

A tree was blown down near the intersection of Prentice Drive and Broderick Drive.

FAIRFAX COUNTY --- 2.1 SE LEGATO [38.83, -77.34]				
	12/21/18 16:27 EST		0	Thunderstorm Wind (EG 50 kt)
	12/21/18 16:27 EST		0	Source: Emergency Manager

A tree was blown down on VA-655 Shirley Gate Road near VA-620 Braddock Road.

A surface low tracked northeastward through the Appalachians as a potent jetstream in the upper levels shifted northward. Unseasonably warm and moist air was transported northward and this, in combination with colder air moving in at the mid-levels,

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caused the atmosphere to destabilize, resulting in showers and thunderstorms. A few of these storms became locally severe.

(VA-Z031) CLARKE, (VA-Z052) PRINCE WILLIAM, (VA-Z053) FAIRFAX, (VA-Z054) ARLINGTON, (VA-Z055) STAFFORD, (VA-Z501) NORTHERN FAUQUIER, (VA-Z502) SOUTHERN FAUQUIER, (VA-Z505) WESTERN LOUDOUN, (VA-Z506) EASTERN LOUDOUN

12/28/18 16:53 EST	0	Dense Fog
12/29/18 08:56 EST	0	

Clearing skies, falling temperatures, and abundant low level moisture led to the formation of dense fog.

(VA-Z050) ORANGE, (VA-Z051) CULPEPER, (VA-Z502) SOUTHERN FAUQUIER

12/31/18 06:35 EST	0	Dense Fog
12/31/18 10:30 EST	0	

Cool, moist easterly flow underneath warm air advection aloft led to the formation of fog, some of which became locally dense.

WEST VIRGINIA, East

(WV-Z050) HAMPSHIRE, (WV-Z051) MORGAN, (WV-Z052) BERKELEY, (WV-Z053) JEFFERSON, (WV-Z055) HARDY, (WV-Z502) EASTERN GRANT, (WV-Z504) EASTERN MINERAL

12/02/18 18:11 EST	0	Dense Fog
12/03/18 04:13 EST	0	

Cool, moist easterly flow underneath warm air advection aloft led to the formation of fog, some of which became locally dense.

(WV-Z505) WESTERN PENDLETON

12/04/18 21:00 EST	0	Winter Weather
12/05/18 16:00 EST	0	

An upper level disturbance tracked eastward from the Ohio Valley in the morning of December 5th. This moved across the region during the morning hours, aided by the left front quadrant of an upper jetmax. The disturbance then exited during the afternoon hours. Areas of light snow moved across portions of the region, although meaningful accumulations were confined to the higher elevations.

(WV-Z506) EASTERN PENDLETON

12/09/18 11:00 EST	0	Winter Weather
12/09/18 21:00 EST	0	

An area of low pressure developed along the Gulf Coast on December 8th and tracked northeastward along the North and South Carolina coastlines during the daytime hours on the 9th, strengthening to around 1000mb by the evening. The low then exited eastward off the coast of Cape Hatteras and weakened on the night of the 9th. Accumulating snow clipped portions of eastern WV, with a sharp cutoff to completely dry conditions north of Pendleton County.

MINERAL COUNTY --- 1.1 W FT ASHBY [39.50, -78.79], 0.4 W FT ASHBY [39.50, -78.78], 0.6 SE CHAMPWOOD [39.44, -78.81], 1.0 WSW CHAMPWOOD [39.44, -78.84], 2.2 WSW FT ASHBY [39.49, -78.81]

12/15/18 12:47 EST	0	Flood (due to Heavy Rain)
12/17/18 03:02 EST	0	Source: River/Stream Gage

The stream gage on Patterson Creek at Headsville exceeded the 9 foot flood stage during the indicated period. Dry Run Road and Daisy Lane were flooded, and water began to cover pastureland near the creek. The peak level of 10.52 feet occurred at 10:45 PM on December 15th.

MINERAL COUNTY --- 0.8 SE HEADSVILLE [39.39, -78.86], 1.0 SE HEADSVILLE [39.39, -78.85], 1.0 ESE HEADSVILLE [39.39, -78.85], 0.8 ESE HEADSVILLE [39.39, -78.86]

12/15/18 12:48 EST	0	Flood (due to Heavy Rain)
12/15/18 14:48 EST	0	Source: Emergency Manager

Intersection of Headsville Road and Patterson Creek Road closed due to flooding.

BERKELEY COUNTY --- 0.9 SW INWOOD [39.34, -78.06], 1.0 NW BUNKER HILL [39.34, -78.06], 0.6 NNW BUNKER HILL [39.34, -78.05], 0.7 NNW BUNKER HILL [39.34, -78.05]

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	12/15/18 16:00 EST		0	Flood (due to Heavy Rain)
	12/15/18 18:00 EST		0	Source: State Official

Henshaw Road (500 block) closed due to flooding along Mill Creek.

HAMPSHIRE COUNTY --- 0.9 ENE YELLOW SPG [39.18, -78.50], 0.4 NNE YELLOW SPG [39.19, -78.52], 1.5 S CAPON BRIDGE [39.28, -78.45], 1.6 SSE CAPON BRIDGE [39.28, -78.44], 1.2 W HIGH VIEW [39.23, -78.44]

	12/15/18 20:29 EST		0	Flood (due to Heavy Rain)
	12/15/18 22:29 EST		0	Source: State Official

Capon River Road was closed due to flooding.

BERKELEY COUNTY --- 1.1 ENE MARTINSBURG [39.45, -77.95], 1.0 E MARTINSBURG [39.45, -77.95], 1.0 WSW BLAIRTON [39.44, -77.94], 2.0 ENE (MRB)SHEPHERD FLD MR [39.42, -77.95], 2.6 SSE (MRB)SHEPHERD FLD MR [39.37, -77.96], 2.8 SSE (MRB)SHEPHERD FLD MR [39.37, -77.95], 3.1 ESE (MRB)SHEPHERD FLD MR [39.38, -77.93], 0.0 SE BLAIRTON [39.45, -77.92]

	12/15/18 21:41 EST		0	Flood (due to Heavy Rain)
	12/17/18 05:46 EST		0	Source: River/Stream Gage

The river gage on the Opequon Creek at Martinsburg exceeded the 12.5 foot flood stage during the indicated period. This pushed the creek well out of its banks, leading to flooding in the nearby lowlands. Fields and backyards near the creek flooded, along with many local roads. Golf Course Road (County Road 36) was flooded near the Van Metre Ford Pedestrian Bridge. Several other roads experienced flooding, including Grapevine Road, Douglas Grove Road, and Paynes Ford Road. Backwater flooding also occurred on small tributaries, including Tuscarora Creek. The peak level of 13.52 feet occurred at 3:30 PM on December 16th.

MORGAN COUNTY --- 0.4 SSW LARGENT [39.48, -78.38], 2.6 WNW ROCK GAP [39.54, -78.33], 2.4 SSW GREAT CACAPON [39.59, -78.29], 1.3 SSW GREAT CACAPON [39.60, -78.29], 3.3 S WOODMONT [39.58, -78.32], 2.4 N LARGENT [39.52, -78.38], 1.5 W LARGENT [39.48, -78.41]

	12/15/18 23:54 EST		0	Flood (due to Heavy Rain)
	12/17/18 06:12 EST		0	Source: River/Stream Gage

The stream gage on the Cacapon River at Great Cacapon exceeded the 9 foot flood stage during the indicated period. Rock Ford Road flooded in multiple locations, including flowing completely over the low water bridge. Flooding was also observed along Constant Run Road, Kilgore Road and Running Waters Way. The peak level of 13.05 feet occurred at 10:15 AM.

BERKELEY COUNTY --- 1.8 S TOMAHAWK [39.50, -78.05], 1.9 SSE TOMAHAWK [39.51, -78.04], 1.4 SE TOMAHAWK [39.51, -78.03], 1.1 S TOMAHAWK [39.51, -78.05]

	12/16/18 00:26 EST		0	Flood (due to Heavy Rain)
	12/17/18 00:34 EST		0	Source: River/Stream Gage

The stream gage on Back Creek at Jones Springs exceeded the 11 foot flood stage during the indicated period. Dry Run Road, Daisy Lane and pastureland near the creek were flooded. The peak level of 14.77 feet occurred at 2:15 PM on December 16th.

BERKELEY COUNTY --- 0.9 SW INWOOD [39.34, -78.06], 1.0 NW BUNKER HILL [39.34, -78.06], 0.8 NW BUNKER HILL [39.34, -78.06], 0.8 SW INWOOD [39.34, -78.06]

	12/16/18 00:41 EST		0	Flood (due to Heavy Rain)
	12/16/18 06:34 EST		0	Source: River/Stream Gage

The stream gage on Mill Creek at Bunker Hill exceeded the 4.3 foot flood stage during the indicated period. Henshaw Road was flooded where it passes under interstate 81. The peak level of 4.75 feet occurred at 3:30 AM on December 16th.

HAMPSHIRE COUNTY --- 1.9 E MILLESON [39.47, -78.64], 0.8 E BLUES BEACH [39.42, -78.70], 1.5 WNW THREE CHURCHES [39.40, -78.68], 1.3 NNW THREE CHURCHES [39.42, -78.65], 2.1 NNW POINTS [39.46, -78.63]

	12/16/18 04:30 EST		0	Flood (due to Heavy Rain)
	12/16/18 20:10 EST		0	Source: River/Stream Gage

The stream gage on the South Branch Potomac River at Springfield exceeded the 15 foot flood stage during the indicated period. Flooding was observed along Mileson Mill Road (County Route 28/5) and Clarence Taylor Road (Route 3/7). A significant portion of the meadowlands near the river, as well as the boat launch ramp were also flooded. The peak level of 16.25 feet occurred at 10:30 AM on December 16th.

BERKELEY COUNTY --- 2.8 ESE BEDINGTON [39.50, -77.85], 5.9 ESE BEDINGTON [39.48, -77.80], 5.0 E VANCLEVESVILLE [39.43, -77.81], 7.8 E VANCLEVESVILLE [39.42, -77.75], 6.5 E VANCLEVESVILLE [39.45, -77.78], 7.6 E BEDINGTON [39.50, -77.76], 3.2 SSE MARLOWE [39.54, -77.84]

	12/16/18 10:33 EST		0	Flood (due to Heavy Rain)
	12/18/18 02:45 EST		0	Source: River/Stream Gage

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The river gage on the Potomac River at Shepherdstown exceeded the 15 foot flood stage during the indicated period. River Road was completely flooded in low spots between Shepherdstown and Harpers Ferry. Water covered the pedestrian bridge to the Shepherdstown boat ramp and significant portions of the C&O canal were flooded. Water approached homes on the West Virginia side of the river near Shepherdstown and impacts to roads and structures were also observed on the Maryland side of the river. The peak level of 22.11 feet occurred at 3:00 AM on December 17th.

JEFFERSON COUNTY --- 1.1 ESE MILLVILLE [39.30, -77.76], 0.7 WSW MILLVILLE [39.30, -77.79], 0.7 NNE KABLETOWN [39.23, -77.85], 0.6 E MEYERSTOWN [39.20, -77.86], 4.9 SSW MEYERSTOWN [39.13, -77.89], 5.2 S MEYERSTOWN [39.13, -77.87], 0.7 NNE SUMMIT PT [39.26, -77.78]

	12/16/18 10:38 EST	0	Flood (due to Heavy Rain)
	12/18/18 00:10 EST	0	Source: River/Stream Gage

The stream gage on the Shenandoah River at Millville exceeded the 10 foot flood stage during the indicated period. Portions of Bloomery Road, John Rissler Road, Wilt Road as well as a few rural roads in Clarke County, VA experienced flooding. Moulton Park, the Millville boat launch, and portions of the Cool Spring Battlefield also flooded. The peak level of 12.80 feet occurred at 9:30 PM on December 16th.

JEFFERSON COUNTY --- 0.5 ENE BOLIVAR [39.32, -77.74], 0.5 S HARPERS FERRY [39.32, -77.73], 0.4 S HARPERS FERRY [39.32, -77.73], 0.4 SE HARPERS FERRY [39.33, -77.73], 0.8 SE HARPERS FERRY [39.32, -77.72], 0.7 E BOLIVAR [39.32, -77.74]

	12/16/18 19:41 EST	0	Flood (due to Heavy Rain)
	12/17/18 11:26 EST	0	Source: River/Stream Gage

The river gage on the Potomac River at Harpers Ferry exceeded the 18 foot flood stage during the indicated period. The C&O Canal towpath on the Maryland side of the river experienced flooding. Floodwaters also covered much of the Hamilton Street area, as well as the employee parking lot in historic Harpers Ferry. The peak level of 18.81 feet occurred at 2:30 AM on December 17th.

A potent upper-level low and associated area of surface low pressure approached the region from southwest on the 15th. Strong forcing for ascent and ample moisture transport in advance of the upper level low led to a prolonged period of rain across the region. Eventually low pressure transferred to the coast before precipitation wound down on the 16th. Widespread rainfall totals of 2-4 inches were observed across the area.

JEFFERSON COUNTY --- 0.5 W MILLVILLE [39.30, -77.79], 0.8 NNE KABLETOWN [39.23, -77.84], 5.1 SSW MEYERSTOWN [39.13, -77.89], 5.3 S MEYERSTOWN [39.12, -77.88], 0.6 NNE SUMMIT PT [39.26, -77.78], 0.6 SSE MILLVILLE [39.29, -77.78]

	12/22/18 04:55 EST	0	Flood (due to Heavy Rain)
	12/23/18 20:25 EST	0	Source: River/Stream Gage

The stream gage on the Shenandoah River at Millville exceeded the 10 foot flood stage during the indicated period. Portions of Bloomery Road, John Rissler Road, Wilt Road as well as a few rural roads in Clarke County, VA experienced flooding. Moulton Park, the Millville boat launch, and portions of the Cool Spring Battlefield also flooded. The peak level of 12.56 feet occurred at 6:00 PM on the 22nd.

MORGAN COUNTY --- 3.1 SSW GREAT CACAPON [39.58, -78.31], 2.6 WNW ROCK GAP [39.54, -78.33], 2.6 NE LARGENT [39.51, -78.35], 2.4 NNE LARGENT [39.51, -78.36], 3.3 WNW ROCK GAP [39.55, -78.33], 3.1 SW GREAT CACAPON [39.59, -78.32]

	12/22/18 10:48 EST	0	Flood (due to Heavy Rain)
	12/22/18 17:07 EST	0	Source: River/Stream Gage

The stream gage on the Cacapon River at Great Cacapon exceeded the 9 foot flood stage during the indicated period. Rock Ford Road flooded in multiple locations, including flowing completely over the low water bridge. Flooding was also observed along Constant Run Road. The peak level of 9.28 feet occurred at 1:00 PM.

Following immediately on the heels of the system that produced flooding on the 20th in VA, another wave of low pressure tracked up along the spine of the Appalachians on the 21st. Showers and thunderstorms moved across the area during the afternoon hours of the 21st, locally producing an additional 1-2 inches of rain on top of previously saturated soils. This rainfall eventually led to some larger-stem river flooding on the 22nd and 23rd as the runoff drained downstream.

(WV-Z051) MORGAN, (WV-Z052) BERKELEY, (WV-Z053) JEFFERSON

	12/28/18 16:53 EST	0	Dense Fog
	12/28/18 20:01 EST	0	

Clearing skies, falling temperatures, and abundant low level moisture led to the formation of dense fog.