

## Storm Data and Unusual Weather Phenomena - September 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>ATLANTIC NORTH</b>				
<b>CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- (KMTN)MARTIN STATE AIRPORT [39.33, -76.42]</b>				
	09/06/18 19:15 EST	0		Marine Thunderstorm Wind (MG 52 kt)
	09/06/18 19:15 EST	0		Source: AWOS
A wind gust of 52 knots was measured at Martin State Airport (KMTN).				
<b>CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- TOLCHESTER MD (TCBM2) [39.32, -76.25]</b>				
	09/06/18 19:36 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	09/06/18 19:36 EST	0		Source: Buoy
A wind gust of 34 knots was measured at Tolchester (TCBM2).				
<b>High amounts of instability and an approaching cold front combined to produce scattered showers and thunderstorms during the afternoon and evening, some of which produced strong winds over the waters.</b>				
<b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- QUANTICO (KNYG) [38.51, -77.30]</b>				
	09/26/18 17:40 EST	0		Marine Thunderstorm Wind (MG 35 kt)
	09/26/18 17:40 EST	0		Source: AWOS
A wind gust of 35 knots was measured at Quantico (KNYG).				
<b>PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- HAMPSTEAD HILL ACADEMY (BLMHH) [39.29, -76.58]</b>				
	09/26/18 18:00 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	09/26/18 18:00 EST	0		Source: Mesonet
A wind gust of up to 34 knots was measured at Hampstead Hill Academy.				
<b>PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- ORIOLE PARK AT CAMDEN YARDS (BLTPC) [39.28, -76.62]</b>				
	09/26/18 18:00 EST	0		Marine Thunderstorm Wind (MG 35 kt)
	09/26/18 18:00 EST	0		Source: Mesonet
A wind gust of 35 knots was measured at Oriole Park at Camden Yards (BLTPC).				
<b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- POTOMAC LIGHT 33 (LT3) [38.34, -76.99]</b>				
	09/26/18 18:16 EST	0		Marine Thunderstorm Wind (MG 37 kt)
	09/26/18 18:21 EST	0		Source: Buoy
A wind gust of 37 knots was measured at Potomac Light 33 (LT3).				
<b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 1.6 E BABAR POINT (BAB) [38.31, -77.00]</b>				
	09/26/18 18:18 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	09/26/18 18:18 EST	0		Source: Buoy
A wind gust of 34 knots was measured at Pylons (PYL).				
<b>CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- GOOSES REEF BUOY (44062) [38.56, -76.41]</b>				
	09/26/18 19:00 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	09/26/18 19:10 EST	0		Source: Buoy
A wind gust of up to 34 knots was measured at Gooses Reef.				
<b>CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- 2.8 S MID BAY BUOY [38.43, -76.39]</b>				
	09/26/18 19:06 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	09/26/18 19:06 EST	0		Source: Buoy
A wind gust of up to 34 knots was measured at Cove Point.				
<b>CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- 7.9 NNE GOOSES REEF BUOY (44062) [38.66, -76.34]</b>				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	09/26/18 19:11 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	09/26/18 19:11 EST		0	Source: Buoy

A wind gust of 35 knots was measured at Black Walnut Harbor.

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### CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.9 SE GREENBERRY POINT (GBY) [38.96, -76.45]

	09/26/18 19:24 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	09/26/18 19:24 EST		0	Source: Buoy

A wind gust of up to 34 knots was measured at Annapolis Buoy.

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### TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- BISHOPS HEAD (BISM2) [38.22, -76.04]

	09/26/18 19:54 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	09/26/18 19:54 EST		0	Source: Buoy

A wind gust of up to 34 knots was measured at Bishops Head.

A cold front moving into the region combined with with an unstable hot and humid air mass to generate showers and thunderstorms, some of which produced strong winds over the waters.

## DISTRICT OF COLUMBIA

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### DISTRICT OF COLUMBIA COUNTY --- 0.3 N GEORGETOWN [38.92, -77.05], 0.4 W GEORGETOWN [38.92, -77.06], 0.7 SW GEORGETOWN [38.91, -77.06], 0.8 SSW GEORGETOWN [38.91, -77.05], 1.4 SSW GEORGETOWN [38.90, -77.06], 1.4 S GEORGETOWN [38.90, -77.05], 0.3 NE GEORGETOWN [38.92, -77.05]

	09/07/18 17:44 EST		0	Flood (due to Heavy Rain)
	09/08/18 00:00 EST		0	Source: Broadcast Media

Rock Creek Parkway was closed due to flooding between Beach Drive and Kennedy Center.

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### DISTRICT OF COLUMBIA COUNTY --- 0.3 N MOUNT PLEASANT [38.93, -77.05], 0.2 NNW MOUNT PLEASANT [38.93, -77.05], 0.3 SSW MOUNT PLEASANT [38.93, -77.05], 0.3 N GEORGETOWN [38.92, -77.05], 0.5 ESE MOUNT PLEASANT [38.93, -77.04], 0.3 ENE MOUNT PLEASANT [38.93, -77.04], 0.3 NNE MOUNT PLEASANT [38.93, -77.05]

	09/07/18 17:57 EST		0	Flood (due to Heavy Rain)
	09/08/18 00:00 EST		0	Source: Broadcast Media

Beach Drive was closed between Porter Street NW and Rock Creek Parkway due to flooding.

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### DISTRICT OF COLUMBIA COUNTY --- 1.0 SSE GEORGETOWN [38.91, -77.04], 1.0 NNE LINCOLN MEMORIAL [38.89, -77.04], 1.1 NNE LINCOLN MEMORIAL [38.89, -77.04], 1.2 NNE LINCOLN MEMORIAL [38.90, -77.04], 1.4 SSE GEORGETOWN [38.90, -77.04]

	09/07/18 18:00 EST		0	Flash Flood (due to Heavy Rain)
	09/07/18 20:00 EST		0	Source: 911 Call Center

Five locations were blocked by high water in Southwest DC. Several cars became stranded. The locations were 17th Street and New York Avenue, 17th street and Constitution Avenue, 18th Street and Virginia Avenue, and 18th Street at D and E Streets.

A boundary remain stalled over the region and tropical moisture was in place. This caused locally heavy rainfall. The steering flow aloft was weak so showers and storms moved slowly, which led to instances of flooding and flash flooding.

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### (DC-Z001) DISTRICT OF COLUMBIA

	09/09/18 17:03 EST		0	Coastal Flood
	09/12/18 11:13 EST		0	

Strong onshore flow, in addition to high amounts of freshwater from heavy rain, led to increased water level anomalies and coastal flooding along the Potomac River.

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### (DC-Z001) DISTRICT OF COLUMBIA

	09/11/18 01:52 EST		0	Dense Fog
	09/11/18 04:49 EST		0	

A combination of cold air damming, abundant low level moisture, and light winds led to the formation of fog, some of which became

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<b>dense with visibility less than a quarter of a mile.</b>				
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<b>DISTRICT OF COLUMBIA COUNTY --- 0.9 SW WALTER REED [38.97, -77.04], 1.0 SW WALTER REED [38.97, -77.04], 0.9 SW WALTER REED [38.97, -77.04], 0.8 SW WALTER REED [38.97, -77.04], 0.8 SW WALTER REED [38.97, -77.04]</b>				
	09/18/18 01:20 EST	0		Flood (due to Heavy Rain)
	09/18/18 05:33 EST	0		Source: River/Stream Gage
The water level surpassed the flood stage of 7 feet, and crested at 7.68 feet at 4:15 AM on September 18th. Water reaches several portions of the Valley Trail between Picnic Areas 7 and 10 in Rock Creek Park.				
<b>Locally heavy rainfall caused Rock Creek to rise out of its banks on the 18th of September.</b>				
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<b>(DC-Z001) DISTRICT OF COLUMBIA</b>				
	09/21/18 04:06 EST	0		Coastal Flood
	09/21/18 05:24 EST	0		
<b>Persistent onshore flow led to increased water level anomalies and coastal flooding.</b>				
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<b>(DC-Z001) DISTRICT OF COLUMBIA</b>				
	09/28/18 20:46 EST	0		Coastal Flood
	09/30/18 13:19 EST	0		
<b>High levels of freshwater on the Potomac River upstream led to increased anomalies and coastal flooding.</b>				
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<b>MARYLAND, Central</b>				
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<b>(MD-Z003) WASHINGTON, (MD-Z016) CHARLES, (MD-Z017) ST. MARY'S, (MD-Z018) CALVERT</b>				
	09/04/18 11:00 EST	0		Heat
	09/04/18 18:00 EST	0		
<b>Ridging at the surface and aloft led to hot and humid conditions.</b>				
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<b>CHARLES COUNTY --- 2.1 W WHITE PLAINS [38.57, -76.99]</b>				
	09/04/18 14:57 EST	0		Thunderstorm Wind (EG 50 kt)
	09/04/18 14:57 EST	0		Source: Emergency Manager
A tree was blown down on Turkey Hill Road. Tree damage also occurred near the intersection of Crain Highway and Theodore Green Boulevard.				
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<b>CHARLES COUNTY --- NEWTOWN [38.50, -76.95]</b>				
	09/04/18 15:17 EST	0		Thunderstorm Wind (EG 50 kt)
	09/04/18 15:17 EST	0		Source: Emergency Manager
A tree was blown down near the intersection of Springhill-Newtown Road and Rosier Place.				
<b>Isolated thunderstorms formed in the afternoon hours due to high amounts of instability and subtle mesoscale boundaries, including sea and river breezes. One storm become severe.</b>				
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<b>ALLEGANY COUNTY --- 0.3 SSE CRESAPTOWN [39.60, -78.83], 0.3 SSE CRESAPTOWN [39.60, -78.83], 0.3 SE CRESAPTOWN [39.60, -78.83], 0.2 SE CRESAPTOWN [39.60, -78.83]</b>				
	09/06/18 16:11 EST	0		Flood (due to Heavy Rain)
	09/06/18 18:11 EST	0		Source: 911 Call Center
US-220 McMullen Highway southwest was blocked by high water and debris.				
<b>An isolated flooding incident occurred from locally heavy rainfall.</b>				
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<b>HARFORD COUNTY --- 1.1 E MILL GREEN [39.67, -76.31]</b>				
	09/06/18 17:55 EST	0		Thunderstorm Wind (EG 50 kt)
	09/06/18 17:55 EST	0		Source: State Official

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A tree was blown down on Macton Road at the Broad Creek bridge. A tree was also blown down in the 1800 block of Deep Run Road.				
<b>HARFORD COUNTY --- 1.3 ENE BEL AIR [39.54, -76.33]</b>				
	09/06/18 18:20 EST	0		Thunderstorm Wind (EG 50 kt)
	09/06/18 18:20 EST	0		Source: State Official
A tree was blown down into power lines on MD SR 22 in Bel Air.				
<b>BALTIMORE COUNTY --- 0.5 W (MTN)MARTIN ARPT BAL [39.32, -76.43]</b>				
	09/06/18 19:15 EST	0		Thunderstorm Wind (EG 52 kt)
	09/06/18 19:15 EST	0		Source: State Official
A tree was blown down into an apartment building on Beech Drive.				
<b>BALTIMORE COUNTY --- 0.7 N BALTIMORE MARTIN ST [39.34, -76.42]</b>				
	09/06/18 19:15 EST	0		Thunderstorm Wind (MG 52 kt)
	09/06/18 19:15 EST	0		Source: AWOS
A 52 knot thunderstorm wind gust was measured at KMTN.				
<b>High amounts of instability and an approaching cold front combined to produce scattered showers and thunderstorms during the afternoon and evening, some of which became severe.</b>				
<b>FREDERICK COUNTY --- 0.6 SW FREDERICK [39.41, -77.43], 0.6 S FREDERICK [39.41, -77.42], 0.5 S FREDERICK [39.41, -77.42], 0.5 SW FREDERICK [39.41, -77.43]</b>				
	09/07/18 17:00 EST	0		Flood (due to Heavy Rain)
	09/07/18 19:00 EST	0		Source: 911 Call Center
Patrick Street was closed due to high water in the downtown area.				
<b>PRINCE GEORGE'S COUNTY --- 0.7 SW ALEXANDRIA JCT [38.94, -76.94], 0.7 SW ALEXANDRIA JCT [38.94, -76.94], 0.7 SW ALEXANDRIA JCT [38.94, -76.94], 0.8 SW ALEXANDRIA JCT [38.94, -76.94]</b>				
	09/07/18 17:31 EST	0		Flood (due to Heavy Rain)
	09/07/18 19:31 EST	0		Source: Fire Department/Rescue
A vehicle was stranded in high water along the 4700 Block of Upshur Street.				
<b>PRINCE GEORGE'S COUNTY --- 0.3 E CHILLUM [38.97, -76.99], 0.3 E CHILLUM [38.97, -76.99], 0.3 E CHILLUM [38.97, -76.99], 0.3 E CHILLUM [38.97, -76.99]</b>				
	09/07/18 17:41 EST	0		Flash Flood (due to Heavy Rain)
	09/07/18 19:41 EST	0		Source: 911 Call Center
The 6500 Block of Knollbrook Drive was under water with multiple vehicles stranded.				
<b>BALTIMORE COUNTY --- 0.7 SW ST GEORGES [39.44, -76.81], 0.7 SW ST GEORGES [39.44, -76.81], 0.6 SW ST GEORGES [39.44, -76.81], 0.6 SW ST GEORGES [39.44, -76.81]</b>				
	09/07/18 18:04 EST	0		Flood (due to Heavy Rain)
	09/07/18 20:04 EST	0		Source: Social Media
Six to eight inches of water were flowing over MD-140 Reisterstown Road near Hammershire Road.				
<b>HOWARD COUNTY --- 2.1 W CLARKSVILLE [39.20, -76.92], 2.0 W CLARKSVILLE [39.20, -76.92], 2.1 W CLARKSVILLE [39.20, -76.92], 2.3 W CLARKSVILLE [39.20, -76.92]</b>				
	09/07/18 18:24 EST	0		Flood (due to Heavy Rain)
	09/07/18 20:24 EST	0		Source: 911 Call Center
The road was impassable due to high water along the 6100 Block of Trotter Road. The creek was out of its banks.				
<b>HOWARD COUNTY --- 0.9 SW CLARKSVILLE [39.19, -76.89], 0.7 NW SIMPSONVILLE [39.19, -76.89], 1.0 WNW SIMPSONVILLE [39.19, -76.89], 1.0 NW SIMPSONVILLE [39.19, -76.89]</b>				
	09/07/18 19:03 EST	0		Flood (due to Heavy Rain)
	09/07/18 21:03 EST	0		Source: 911 Call Center

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Harriet Tubman Lane was blocked by high water near Cedar Lane.				
<b>WASHINGTON COUNTY --- 2.0 ESE SECURITY [39.64, -77.67], 1.9 ESE SECURITY [39.64, -77.67], 1.7 ESE SECURITY [39.64, -77.67], 1.8 ESE SECURITY [39.64, -77.67]</b>				
	09/07/18 19:08 EST		0	Flood (due to Heavy Rain)
	09/07/18 21:08 EST		0	Source: Emergency Manager
There were reports of two feet of water flowing over Jefferson Boulevard near the 20200 Block.				
<b>WASHINGTON COUNTY --- 1.2 WSW CHEWSVILLE [39.64, -77.65], 1.6 WSW CHEWSVILLE [39.64, -77.66], 1.6 WSW CHEWSVILLE [39.64, -77.66], 1.4 WSW CHEWSVILLE [39.64, -77.65]</b>				
	09/07/18 19:18 EST		0	Flood (due to Heavy Rain)
	09/07/18 21:18 EST		0	Source: Department of Highways
MD-64 Jefferson Boulevard was closed due to high water near Robinwood Drive.				
<b>A boundary remain stalled over the region and tropical moisture was in place. This caused locally heavy rainfall. The steering flow aloft was weak so showers and storms moved slowly, which led to instances of flooding and flash flooding.</b>				
<b>HOWARD COUNTY --- 1.8 WNW CLARKSVILLE [39.21, -76.91]</b>				
	09/07/18 17:55 EST		0	Thunderstorm Wind (EG 50 kt)
	09/07/18 17:55 EST		0	Source: State Official
A tree was blown down in the 6400 block of South Wind Circle.				
<b>A pair of surface cold fronts interacted with a moist and warm unstable air mass to generate showers and thunderstorms. One thunderstorm became severe.</b>				
<b>ANNE ARUNDEL COUNTY --- 1.0 SE CROFTON [38.99, -76.64], 1.2 NNE RUTLAND [38.99, -76.62], 1.2 WNW LUSBY XRDS [38.99, -76.62], 0.9 ESE CROFTON [38.99, -76.64]</b>				
	09/09/18 07:26 EST		0	Flood (due to Heavy Rain)
	09/09/18 09:26 EST		0	Source: Department of Highways
MD-455 Defense Highway was closed due to flooding between Huntwood Drive and Rutland road.				
<b>ANNE ARUNDEL COUNTY --- 1.9 WSW RAYNOR HGTS [39.21, -76.70], 1.8 WNW FERNDAL [39.21, -76.70], 1.5 WSW RAYNOR HGTS [39.21, -76.70], 1.6 WSW RAYNOR HGTS [39.21, -76.70], 1.7 WSW RAYNOR HGTS [39.21, -76.70]</b>				
	09/09/18 07:57 EST		0	Flood (due to Heavy Rain)
	09/10/18 12:16 EST		0	Source: River/Stream Gage
The stream gage on the Patapsco River at Elkridge exceeded the 16 foot flood stage during the indicated period. Hammonds Ferry Road flooded and was closed at the Patapsco River. Backwater flooding led to the closure of Furnace Avenue in Elkridge. The peak level of 19.64 feet occurred at 8:05 PM on the 9th.				
<b>ALLEGANY COUNTY --- 0.7 N ALLEGANY [39.68, -78.90], 0.5 NNE ALLEGANY [39.68, -78.90], 0.6 NE ALLEGANY [39.68, -78.89], 0.7 NNE ALLEGANY [39.68, -78.89]</b>				
	09/09/18 09:22 EST		0	Flood (due to Heavy Rain)
	09/09/18 11:22 EST		0	Source: Department of Highways
MD-36 Mount Savage Road northwest was closed due to flooding near MD-638.				
<b>ANNE ARUNDEL COUNTY --- 0.9 W ARUNDEL GARDENS [39.20, -76.64], 0.8 W ARUNDEL GARDENS [39.20, -76.64], 0.7 W ARUNDEL GARDENS [39.20, -76.63], 0.7 WSW ARUNDEL GARDENS [39.20, -76.63]</b>				
	09/09/18 10:30 EST		0	Flood (due to Heavy Rain)
	09/09/18 12:30 EST		0	Source: 911 Call Center
Furnace Branch Road was closed due to flooding near Ritchie Street.				
<b>CARROLL COUNTY --- 1.3 NNW KEYMAR [39.62, -77.24], 1.2 NNW KEYMAR [39.62, -77.24], 1.2 NNW KEYMAR [39.62, -77.24], 1.2 NNW KEYMAR [39.62, -77.24], 1.3 NNW KEYMAR [39.62, -77.24]</b>				
	09/09/18 11:15 EST		0	Flood (due to Heavy Rain)
	09/10/18 01:40 EST		0	Source: River/Stream Gage

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
The USGS stream gage on Big Pipe Creek near Bruceville exceeded the 8 foot flood stage during the indicated period, flooding Keysville-Bruceville Road. The peak level observed was 9.53 feet, which occurred at 3:30pm on the 9th.				

**ALLEGANY COUNTY --- 0.7 NNE LUKE [39.49, -79.04], 0.7 NNE LUKE [39.49, -79.04], 0.7 NNE LUKE [39.49, -79.04], 0.8 NNE LUKE [39.49, -79.04], 0.8 NE LUKE [39.49, -79.04], 0.7 NE LUKE [39.49, -79.04]**

	09/09/18 11:58 EST	0		Flood (due to Heavy Rain)
	09/10/18 09:24 EST	0		Source: River/Stream Gage

The river level surpassed flood stage at Georges Creek at Westernport, cresting at 8.83 feet on September 9th at 3:45 PM EST. Water reached the underside of the railroad bridge at downtown Westernport.

**ALLEGANY COUNTY --- 0.6 NE LONG [39.68, -78.79], 0.5 E LONG [39.67, -78.79], 0.5 W ECKHART JCT [39.67, -78.79], 0.6 NE LONG [39.68, -78.79]**

	09/09/18 12:31 EST	0		Flood (due to Heavy Rain)
	09/10/18 13:55 EST	0		Source: River/Stream Gage

The USGS stream gage on Wills Creek near Cumberland exceeded the 10 foot flood stage during the indicated period. This caused flooding of a car wash at Motor City, with water in parking lots in the same area. The peak level of 11.57 feet was observed at 4:45pm EST on the 9th.

**CARROLL COUNTY --- 0.6 SW NEW WINDSOR [39.54, -77.11], 0.6 SW NEW WINDSOR [39.54, -77.11], 0.6 SW NEW WINDSOR [39.54, -77.11], 0.6 SW NEW WINDSOR [39.54, -77.11]**

	09/09/18 13:28 EST	0		Flood (due to Heavy Rain)
	09/09/18 15:28 EST	0		Source: Department of Highways

MD-31 Main Street was closed due to flooding near Union Bridge Road.

**ANNE ARUNDEL COUNTY --- 0.1 NE CHURCHTON [38.80, -76.53], 0.2 ENE CHURCHTON [38.80, -76.53], 0.2 E CHURCHTON [38.80, -76.53], 0.1 E CHURCHTON [38.80, -76.53]**

	09/09/18 14:15 EST	0		Flood (due to Heavy Rain)
	09/09/18 16:15 EST	0		Source: Trained Spotter

Broadwater Creek was out of its banks onto Battee Drive.

**FREDERICK COUNTY --- 0.6 E WOODSBORO [39.53, -77.31], 0.5 E WOODSBORO [39.53, -77.31], 0.7 E WOODSBORO [39.53, -77.31], 0.7 E WOODSBORO [39.53, -77.31]**

	09/09/18 14:16 EST	0		Flood (due to Heavy Rain)
	09/09/18 16:16 EST	0		Source: Department of Highways

MD-550 Woodsboro Road was closed due to flooding near Council Drive.

**WASHINGTON COUNTY --- 0.6 NNE CEARFOSS [39.71, -77.77], 0.3 NE CEARFOSS [39.70, -77.78], 0.4 NE CEARFOSS [39.70, -77.77], 0.7 NE CEARFOSS [39.71, -77.77]**

	09/09/18 15:23 EST	0		Flood (due to Heavy Rain)
	09/09/18 17:23 EST	0		Source: Department of Highways

MD-63 Greencastle Pike was closed due to flooding near Bivens Lane.

**WASHINGTON COUNTY --- 2.1 NW PEARRE [39.65, -78.34], 2.0 NW PEARRE [39.65, -78.34], 1.9 NW PEARRE [39.65, -78.34], 1.8 NW PEARRE [39.65, -78.34], 1.7 NW PEARRE [39.65, -78.34], 1.9 NNW PEARRE [39.65, -78.34]**

	09/09/18 15:25 EST	0		Flood (due to Heavy Rain)
	09/09/18 23:45 EST	0		Source: River/Stream Gage

The USGS stream gage on Sideling Hill Creek near Bellegrove exceeded the 7.5 foot flood stage during the indicated period, flooding lowlands near the creek. The peak level of 8.37 feet was observed at 7:15pm EST.

**ALLEGANY COUNTY --- 0.9 SE OLDTOWN [39.54, -78.61], 1.1 SSE OLDTOWN [39.54, -78.61], 1.0 SSE OLDTOWN [39.54, -78.61], 0.8 SSE OLDTOWN [39.54, -78.61]**

	09/09/18 15:40 EST	0		Flood (due to Heavy Rain)
	09/10/18 15:40 EST	0		Source: 911 Call Center

The Oldtown Toll Bridge was closed due to high water.

**CARROLL COUNTY --- 0.9 SW CRANBERRY STATION [39.57, -76.99], 1.6 SSE TANEYTOWN [39.65, -77.17], 1.8 WSW MC KINSTRYS [39.54, -77.20], 0.7 WNW WESTMINSTER CLRWW AR [39.47, -77.03]**

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	09/09/18 15:53 EST		0	Flood (due to Heavy Rain)
	09/09/18 17:53 EST		0	Source: 911 Call Center

Numerous Road closures were reported across Carroll County due to high water.

**FREDERICK COUNTY --- 0.5 E FREDERICK [39.42, -77.41], 1.0 ENE PLEASANT VIEW [39.29, -77.48], 2.5 SE URBANA [39.30, -77.32], 0.6 ESE MT PLEASANT [39.45, -77.32]**

	09/09/18 16:07 EST		0	Flood (due to Heavy Rain)
	09/09/18 18:07 EST		0	Source: 911 Call Center

Numerous road closures were across Frederick County.

**WASHINGTON COUNTY --- 1.2 E BROADFORDING [39.68, -77.78], 0.2 S KEMPS [39.62, -77.82], 0.3 ESE BEAVER CREEK [39.58, -77.64], 2.0 SE LEITERSBURG [39.68, -77.59]**

	09/09/18 17:50 EST		0	Flood (due to Heavy Rain)
	09/09/18 19:50 EST		0	Source: 911 Call Center

Around a dozen roads were closed throughout the county due to flooding.

**WASHINGTON COUNTY --- 1.6 E FAIRVIEW [39.72, -77.82], 1.3 ESE FAIRVIEW [39.71, -77.83], 1.2 ESE FAIRVIEW [39.71, -77.83], 1.0 ESE FAIRVIEW [39.71, -77.83], 1.2 E FAIRVIEW [39.72, -77.83]**

	09/09/18 18:13 EST		0	Flood (due to Heavy Rain)
	09/11/18 13:43 EST		0	Source: River/Stream Gage

The stream gauge along the Conococheague Creek surpassed the flood stage of 10 feet. the gauge crested at 12.49 feet at 6:45 EST September 10th. Wishard Road and Kemp Mill Road were both flooded.

**MONTGOMERY COUNTY --- 4.1 SW WHITES FERRY [39.16, -77.52], 4.2 SW WHITES FERRY [39.15, -77.52], 4.1 SW WHITES FERRY [39.15, -77.52], 4.0 SW WHITES FERRY [39.16, -77.52]**

	09/10/18 11:01 EST		0	Flood (due to Heavy Rain)
	09/12/18 13:03 EST		0	Source: River/Stream Gage

The USGS stream gage on the Potomac River at Edwards Ferry exceeded the 15 foot flood stage during the indicated period. The peak level of 20.31 feet occurred at 10:15am EST on the 11th. Several parking lots along the C&O Canal were flooded, along with the store at Whites Ferry and the basements of lockhouses along the C&O Canal.

**ALLEGANY COUNTY --- 0.4 SSW WOLFE MILL [39.67, -78.73], 0.5 S WOLFE MILL [39.66, -78.73], 0.6 SE WOLFE MILL [39.66, -78.72], 0.5 ESE WOLFE MILL [39.67, -78.72], 0.3 SE WOLFE MILL [39.67, -78.73]**

	09/10/18 13:48 EST		0	Flood (due to Heavy Rain)
	09/10/18 15:48 EST		0	Source: 911 Call Center

Country Club Road was closed near Christie Road due to flooding.

**FREDERICK COUNTY --- 1.3 SW BRUNSWICK [39.31, -77.65], 1.6 SE BRUNSWICK [39.30, -77.61], 0.9 SSE POINTS OF ROCKS [39.27, -77.55], 0.9 NE POINTS OF ROCKS [39.29, -77.54], 0.9 WSW CATOCTIN [39.32, -77.57]**

	09/10/18 13:50 EST		0	Flood (due to Heavy Rain)
	09/12/18 00:45 EST		0	Source: River/Stream Gage

The river level surpassed the flood stage of 16 feet at Point of Rocks along the Potomac River. The river level crested at 19.92 feet at 7:30 AM EST September 11th.

Farmland behind the Tarara Vineyard was flooded. Water approached structures at the Brunswick campground. Water entered the comfort station at the Brunswick boat ramp parking area. The parking lots at both the McKimmey and Brunswick boat ramps were flooded. Flooding of an agricultural field adjacent to the McKimmey boat ramp occurred. About half the lower parking lot of the Point of Rocks boat ramp was also flooded.

**ANNE ARUNDEL COUNTY --- 1.9 WSW RAYNOR HGTS [39.21, -76.70], 1.8 WNW FERNDAL [39.21, -76.70], 1.5 WSW RAYNOR HGTS [39.21, -76.70], 1.6 WSW RAYNOR HGTS [39.21, -76.70], 1.7 WSW RAYNOR HGTS [39.21, -76.70]**

	09/10/18 14:12 EST		0	Flood (due to Heavy Rain)
	09/10/18 15:11 EST		0	Source: River/Stream Gage

The stream gage on the Patapsco River at Elkridge exceeded the 16 foot flood stage during the indicated period. Hammonds Ferry Road flooded and was closed at the Patapsco River. Backwater flooding led to the closure of Furnace Avenue in Elkridge. The peak level of 17 feet occurred at 2:55 PM.

## Storm Data and Unusual Weather Phenomena - September 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>MONTGOMERY COUNTY --- 0.2 E KENWOOD [38.95, -77.13], 0.1 ESE KENWOOD [38.95, -77.13], 0.8 SW GLEN ECHO [38.96, -77.14], 0.6 SW GLEN ECHO [38.96, -77.14], 0.5 N KENWOOD [38.96, -77.13]</b>				
	09/10/18 23:21 EST		0	Flood (due to Heavy Rain)
	09/12/18 01:52 EST		0	Source: River/Stream Gage
The USGS stream gage on the Potomac River at Little Falls Dam exceeded the 10 foot flood stage during the indicated period, flooding low lying areas and trails on the Maryland side of the river, especially near Chain Bridge. The peak level of 10.85 feet occurred at 1:30pm EST on the 11th.				
<b>HOWARD COUNTY --- 1.4 SE LISBON [39.32, -77.05], 1.3 NE DAISY [39.31, -77.05], 1.3 NE DAISY [39.31, -77.05], 1.4 NE DAISY [39.31, -77.05]</b>				
	09/12/18 18:10 EST		0	Flood (due to Heavy Rain)
	09/12/18 20:10 EST		0	Source: 911 Call Center
Carrs Mill Road was flooded near Bush Park Road due to high water.				
<b>WASHINGTON COUNTY --- 1.6 E FAIRVIEW [39.72, -77.82], 1.3 ESE FAIRVIEW [39.71, -77.83], 1.2 ESE FAIRVIEW [39.71, -77.83], 1.0 ESE FAIRVIEW [39.71, -77.83], 1.2 E FAIRVIEW [39.72, -77.83]</b>				
	09/13/18 16:03 EST		0	Flood (due to Heavy Rain)
	09/13/18 21:51 EST		0	Source: River/Stream Gage
The stream gauge along the Conococheague Creek surpassed the flood stage of 10 feet. the gauge crested at 10.58 feet at 6:30 PM EST September 13th. Wishard Road and Kemp Mill Road were both flooded.				
<b>Low pressure tracked to the west while a nearly stationary boundary was to the south. Warm and moist tropical air overran the surface cooler air in place, resulting in a moderate to heavy rainfall. Excess runoff from the rainfall led to flooding. One and a half to three inches of rain fell across northern Maryland late on the 8th into the 9th, followed by another one to three inches on the 9th into the 10th. This combination produced fairly widespread flooding, including of the mainstem rivers, which continued through the 11th and into the 12th.</b>				
<b>(MD-Z014) ANNE ARUNDEL, (MD-Z017) ST. MARY'S</b>				
	09/09/18 10:25 EST		0	Coastal Flood
	09/11/18 16:00 EST		0	
<b>Strong onshore flow led to increased water level anomalies and coastal flooding.</b>				
<b>(MD-Z011) SOUTHERN BALTIMORE, (MD-Z013) PRINCE GEORGES, (MD-Z014) ANNE ARUNDEL, (MD-Z503) NORTHWEST MONTGOMERY, (MD-Z504) CENTRAL AND SOUTHEAST MONTGOMERY, (MD-Z505) NORTHWEST HOWARD, (MD-Z506) CENTRAL AND SOUTHEAST HOWARD</b>				
	09/11/18 01:52 EST		0	Dense Fog
	09/11/18 08:54 EST		0	
<b>A combination of cold air damming, abundant low level moisture, and light winds led to the formation of fog, some of which became dense with visibility less than a quarter of a mile.</b>				
<b>(MD-Z017) ST. MARY'S</b>				
	09/14/18 16:00 EST		0	Coastal Flood
	09/14/18 16:01 EST		0	
<b>Strong onshore flow as Hurricane Florence passed south of the region led to increased water level anomalies and coastal flooding.</b>				
<b>ANNE ARUNDEL COUNTY --- 1.8 WSW RAYNOR HGTS [39.21, -76.70], 0.9 NNE RAYNOR HGTS [39.23, -76.66], 1.5 WSW RAYNOR HGTS [39.21, -76.70], 1.9 WSW RAYNOR HGTS [39.21, -76.70]</b>				
	09/18/18 00:52 EST		0	Flood (due to Heavy Rain)
	09/18/18 07:52 EST		0	Source: River/Stream Gage
The stream gage on the Patapsco River at Elkridge exceeded the 16 foot flood stage during the indicated period. Hammonds Ferry Road flooded and was closed at the Patapsco River. Backwater flooding led to the closure of Furnace Avenue in Elkridge. The peak level of 18.72 feet occurred at 3:25 AM.				
<b>PRINCE GEORGE'S COUNTY --- 0.7 SSE OAK CREST [39.07, -76.84], 0.8 SSE OAK CREST [39.07, -76.84], 0.8 SSE OAK CREST [39.07, -76.84], 0.7 SSE OAK CREST [39.07, -76.84]</b>				
	09/18/18 00:56 EST		0	Flash Flood (due to Heavy Rain)
	09/18/18 02:56 EST		0	Source: 911 Call Center
Several vehicles were trapped in high water on MD-197 Laurel Bowie Road.				



## Storm Data and Unusual Weather Phenomena - September 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>BALTIMORE COUNTY --- 1.0 N BALTIMORE HIGHLANDS [39.24, -76.65], 1.0 N BALTIMORE HIGHLANDS [39.24, -76.65], 0.9 N BALTIMORE HIGHLANDS [39.24, -76.65], 1.0 N BALTIMORE HIGHLANDS [39.24, -76.65]</b>				
	09/18/18 01:00 EST		0	Flash Flood (due to Heavy Rain)
	09/18/18 03:00 EST		0	Source: 911 Call Center
Three feet of swift moving water was moving over Hollins Ferry Road near Landsdowne Road.				
<b>PRINCE GEORGE'S COUNTY --- 0.7 SSE OAK CREST [39.07, -76.84], 0.8 SSE OAK CREST [39.07, -76.84], 0.8 SSE OAK CREST [39.07, -76.84], 0.7 SSE OAK CREST [39.07, -76.84]</b>				
	09/18/18 01:08 EST		0	Flash Flood (due to Heavy Rain)
	09/18/18 04:00 EST		0	Source: Broadcast Media
All lanes of MD-197 Laurel Bowie Road were blocked by high water near Montpelier Drive.				
<b>BALTIMORE COUNTY --- 0.8 NNE RELAY [39.24, -76.69], 0.8 NNE RELAY [39.24, -76.69], 0.7 SE HALETHORPE [39.24, -76.69], 0.4 ESE HALETHORPE [39.25, -76.69], 0.4 ESE HALETHORPE [39.25, -76.69]</b>				
	09/18/18 01:14 EST		0	Flash Flood (due to Heavy Rain)
	09/18/18 01:53 EST		0	Source: River/Stream Gage
The USGS stream gage on East Branch Herbert Run near Arbutus rapidly exceeded the 7 foot flood stage during the short period indicated. It rose a foot over flood stage within 20 minutes, peaking at 8.02 feet at 1:35 am EST. Yards near the stream flooded, with water up to the top of the culvert at Sulphur Spring Road.				
<b>BALTIMORE COUNTY --- 0.7 NNW LINHIGH [39.38, -76.50], 0.7 NNW LINHIGH [39.38, -76.50], 0.6 NNW LINHIGH [39.38, -76.50], 0.6 NNW LINHIGH [39.38, -76.50]</b>				
	09/18/18 01:19 EST		0	Flash Flood (due to Heavy Rain)
	09/18/18 03:19 EST		0	Source: 911 Call Center
Hill is being washed down the roadway on MD43 at US Route 1.				
<b>MONTGOMERY COUNTY --- 1.1 NNE WHITE OAK [39.04, -76.99], 1.0 NNE WHITE OAK [39.04, -76.99], 1.0 NNE WHITE OAK [39.04, -76.99], 1.0 NNE WHITE OAK [39.04, -76.99]</b>				
	09/18/18 01:25 EST		0	Flood (due to Heavy Rain)
	09/18/18 03:25 EST		0	Source: Broadcast Media
All lanes of MD-650 New Hampshire Avenue were blocked by high water at US-29 Colesville Road.				
<b>MONTGOMERY COUNTY --- 0.9 NW TAKOMA PARK [38.98, -77.01], 1.0 NW TAKOMA PARK [38.98, -77.01], 0.9 NW TAKOMA PARK [38.98, -77.01], 0.9 NW TAKOMA PARK [38.98, -77.01]</b>				
	09/18/18 01:29 EST		0	Flood (due to Heavy Rain)
	09/18/18 01:43 EST		0	Source: River/Stream Gage
The water levels crested at the flood stage of 5.5 feet. Water approached Sligo Creek Parkway just north of Maple Avenue.				
<b>BALTIMORE COUNTY --- 0.9 NW STEMMERS RUN [39.34, -76.48], 0.9 NW STEMMERS RUN [39.34, -76.48], 0.9 NW STEMMERS RUN [39.34, -76.48], 0.9 NW STEMMERS RUN [39.34, -76.48]</b>				
	09/18/18 01:30 EST		0	Flood (due to Heavy Rain)
	09/18/18 03:30 EST		0	Source: 911 Call Center
A vehicle was stranded in high water in Golden Ring Plaza.				
<b>BALTIMORE COUNTY --- 1.3 WSW WHITE MARSH [39.37, -76.45], 1.2 WSW WHITE MARSH [39.37, -76.45], 1.2 SW WHITE MARSH [39.37, -76.45], 1.0 SW WHITE MARSH [39.37, -76.45], 1.3 WSW WHITE MARSH [39.37, -76.45]</b>				
	09/18/18 01:44 EST		0	Flash Flood (due to Heavy Rain)
	09/18/18 03:30 EST		0	Source: River/Stream Gage
The water level at Whitmarsh Run rapidly surpassed flood stage of 11 feet, cresting at 12.97 feet at 2:15 AM EST on the 18th of September. Town Center Court was flooded, and water covered the parking lots near the stream.				
<b>BALTIMORE COUNTY --- 2.1 ENE HALETHORPE [39.27, -76.67], 2.1 ENE HALETHORPE [39.27, -76.67], 2.0 ENE HALETHORPE [39.27, -76.67], 2.1 ENE HALETHORPE [39.27, -76.67]</b>				

## Storm Data and Unusual Weather Phenomena - September 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	09/18/18 01:48 EST		0	Flash Flood (due to Heavy Rain)
	09/18/18 04:00 EST		0	Source: Department of Highways

I-95 northbound was blocked by high water at Exit 50A for US-1 Caton Avenue.

**MONTGOMERY COUNTY --- 1.0 S KEMP MILL [39.02, -77.02], 1.0 SSE KEMP MILL [39.02, -77.02], 1.1 SSE KEMP MILL [39.01, -77.02], 1.1 S KEMP MILL [39.01, -77.02]**

	09/18/18 02:03 EST		0	Flood (due to Heavy Rain)
	09/18/18 04:03 EST		0	Source: Department of Highways

US-29 Colesville Road was blocked by high water near I-495 Capital Beltway.

**BALTIMORE COUNTY --- 0.8 SW LUTZ HILL [39.31, -76.53], 0.8 SW LUTZ HILL [39.31, -76.53], 0.7 SW LUTZ HILL [39.31, -76.53], 0.7 SW LUTZ HILL [39.31, -76.53]**

	09/18/18 02:28 EST		0	Flash Flood (due to Heavy Rain)
	09/18/18 04:00 EST		0	Source: 911 Call Center

A vehicle was stalled in high water on US-40 Pulaski Highway near MD-7 Philadelphia Road.

**HARFORD COUNTY --- 0.6 SW SINGER [39.47, -76.34], 0.5 SW SINGER [39.47, -76.34], 0.6 SSW SINGER [39.47, -76.34], 0.7 SSW SINGER [39.47, -76.34]**

	09/18/18 02:55 EST		0	Flood (due to Heavy Rain)
	09/18/18 03:32 EST		0	Source: River/Stream Gage

The stream gage on Otter Point Creek in Edgewood exceeded the flood stage of 8 feet during the indicated period, flooding Winters Run Road near Singer Road. The peak level of 8.16 feet was observed at 3:15am EST.

**BALTIMORE COUNTY --- 0.5 SSW ST DENIS [39.21, -76.70], 0.6 SSW ST DENIS [39.21, -76.70], 0.7 S ST DENIS [39.21, -76.70], 0.7 SSE ST DENIS [39.21, -76.70], 0.5 SSE ST DENIS [39.21, -76.70]**

	09/18/18 03:10 EST		0	Flash Flood (due to Heavy Rain)
	09/18/18 04:00 EST		0	Source: 911 Call Center

Furnace Avenue was closed due to high water near the Baltimore County line.

**HOWARD COUNTY --- 2.3 SSW ST DENIS [39.19, -76.72], 2.4 SSW ST DENIS [39.19, -76.72], 2.3 SSW ST DENIS [39.19, -76.72], 2.3 SSW ST DENIS [39.19, -76.72]**

	09/18/18 03:10 EST		0	Flash Flood (due to Heavy Rain)
	09/18/18 04:00 EST		0	Source: 911 Call Center

A car was trapped in high water near the intersection of Race Road and Hanover road. Race Road was closed.

**BALTIMORE COUNTY --- 1.0 SW WHITE MARSH [39.37, -76.44], 1.1 SW WHITE MARSH [39.37, -76.45], 1.2 WSW WHITE MARSH [39.37, -76.45], 1.3 WSW WHITE MARSH [39.37, -76.45], 1.2 WSW WHITE MARSH [39.37, -76.45]**

	09/18/18 03:30 EST		0	Flood (due to Heavy Rain)
	09/18/18 04:08 EST		0	Source: River/Stream Gage

The water level at Whitmarsh Run was above flood stage of 11 feet. Water covered parking lots near the stream, particularly near Town Center Court.

**ANNE ARUNDEL COUNTY --- 1.8 WSW RAYNOR HGTS [39.21, -76.70], 2.0 WSW RAYNOR HGTS [39.21, -76.71], 1.9 WSW RAYNOR HGTS [39.21, -76.70], 1.7 WSW RAYNOR HGTS [39.21, -76.70]**

	09/18/18 15:31 EST		0	Flood (due to Heavy Rain)
	09/18/18 17:31 EST		0	Source: 911 Call Center

A vehicle was stalled in flowing water over the road on Furnace Avenue near Race road. Deep Run was out of its banks.

**ANNE ARUNDEL COUNTY --- 1.8 WSW RAYNOR HGTS [39.21, -76.70], 0.9 NNE RAYNOR HGTS [39.23, -76.66], 1.5 WSW RAYNOR HGTS [39.21, -76.70], 1.9 WSW RAYNOR HGTS [39.21, -76.70]**

	09/18/18 15:58 EST		0	Flood (due to Heavy Rain)
	09/18/18 17:18 EST		0	Source: River/Stream Gage

The stream gage on the Patapsco River at Elkridge exceeded the 16 foot flood stage during the indicated period. Hammonds Ferry Road flooded and was closed at the Patapsco River. Backwater flooding led to the closure of Furnace Avenue in Elkridge. The peak level of 16.23 feet occurred at 4:05 PM.

## Storm Data and Unusual Weather Phenomena - September 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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The remnants of Florence slowly tracked through the area on the 17th and 18th. Plenty of tropical moisture caused showers and thunderstorms to contain locally heavy rainfall, which led to instances of flooding.

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**(MD-Z014) ANNE ARUNDEL, (MD-Z017) ST. MARY'S**

	09/20/18 20:45 EST	0		Coastal Flood
	09/21/18 05:12 EST	0		

Persistent onshore flow led to increased water level anomalies and coastal flooding.

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**(MD-Z017) ST. MARY'S**

	09/25/18 00:10 EST	0		Coastal Flood
	09/26/18 03:15 EST	0		

Persistent onshore flow led to increased water level anomalies and coastal flooding.

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**WASHINGTON COUNTY --- 2.2 ESE CAVETOWN [39.64, -77.54]**

	09/26/18 15:40 EST	0		Thunderstorm Wind (EG 50 kt)
	09/26/18 15:40 EST	0		Source: Emergency Manager

A tree was blown down on Pleasant Valley Road near the intersection of Foxville Road.

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**FREDERICK COUNTY --- 0.7 N LOYS [39.61, -77.35]**

	09/26/18 16:12 EST	0		Thunderstorm Wind (EG 50 kt)
	09/26/18 16:12 EST	0		Source: Emergency Manager

Power lines were blown down at the 14000 block of Old Frederick Road.

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**FREDERICK COUNTY --- 0.7 N BETHEL [39.51, -77.45]**

	09/26/18 16:19 EST	0		Thunderstorm Wind (EG 50 kt)
	09/26/18 16:19 EST	0		Source: Emergency Manager

A tree was blown down at the 10300 block of Putnam Road.

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**FREDERICK COUNTY --- 1.3 ENE MT PLEASANT [39.46, -77.31]**

	09/26/18 16:37 EST	0		Thunderstorm Wind (EG 50 kt)
	09/26/18 16:37 EST	0		Source: Department of Highways

A tree was blown down across Liberty Road near the intersection of Old Annapolis Road.

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**FREDERICK COUNTY --- 1.7 ENE UNIONVILLE [39.49, -77.15]**

	09/26/18 16:50 EST	0		Thunderstorm Wind (EG 50 kt)
	09/26/18 16:50 EST	0		Source: Department of Highways

A tree was blown down across New Windsor Road between Oak Orchard Road and Hemp Avenue.

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**MONTGOMERY COUNTY --- 0.7 N BRINKLOW [39.18, -77.02]**

	09/26/18 17:32 EST	0		Thunderstorm Wind (EG 50 kt)
	09/26/18 17:32 EST	0		Source: Department of Highways

A tree was blown down on MD Route 650 near Haviland Mill Road.

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**ANNE ARUNDEL COUNTY --- 0.9 SW GLEN BURNIE PARK [39.14, -76.64]**

	09/26/18 18:05 EST	0		Thunderstorm Wind (EG 50 kt)
	09/26/18 18:05 EST	0		Source: Amateur Radio

A large tree limb was blown down onto a house near the intersection of Burton Road and Baylor Road.

A cold front moving into the region combined with with an unstable hot and humid air mass to generate showers and thunderstorms, some of which became severe.

## Storm Data and Unusual Weather Phenomena - September 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>FREDERICK COUNTY --- 1.8 SSW MONROVIA [39.35, -77.29], 1.9 SW MONROVIA [39.35, -77.29], 2.2 SE IJAMSVILLE [39.35, -77.30], 2.1 SE IJAMSVILLE [39.35, -77.30]</b>				
	09/26/18 17:51 EST	0		Flood (due to Heavy Rain)
	09/26/18 19:51 EST	0		Source: Department of Highways
High water blocked MD 80/Fingerboard Road between Whiskey Road and Ed Mclain Road.				
<b>FREDERICK COUNTY --- 0.5 SW REELS MILL [39.37, -77.39], 1.3 NW URBANA [39.34, -77.37], 1.4 WNW URBANA [39.34, -77.37], 0.7 SW REELS MILL [39.36, -77.39]</b>				
	09/26/18 17:59 EST	0		Flood (due to Heavy Rain)
	09/26/18 19:59 EST	0		Source: Department of Highways
MD-355 Urbana Pike was closed due to flooding at Ball Road.				
<b>FREDERICK COUNTY --- 0.6 E WOODSBORO [39.53, -77.31], 0.7 E WOODSBORO [39.53, -77.31], 0.8 E WOODSBORO [39.53, -77.31], 0.7 E WOODSBORO [39.53, -77.31]</b>				
	09/26/18 18:11 EST	0		Flood (due to Heavy Rain)
	09/26/18 20:11 EST	0		Source: Department of Highways
MD-550 Woodsboro Road was closed due to flooding near Council Drive.				
<b>FREDERICK COUNTY --- 0.8 W SAMS CREEK [39.50, -77.12], 2.4 NW SAMS CREEK [39.52, -77.14], 2.6 WNW SAMS CREEK [39.52, -77.14], 1.1 WSW SAMS CREEK [39.50, -77.12]</b>				
	09/26/18 22:08 EST	0		Flood (due to Heavy Rain)
	09/27/18 00:08 EST	0		Source: Emergency Manager
Sam Creek Road was closed between Frederick and the Carroll County Line.				
<b>MONTGOMERY COUNTY --- 4.3 SW POOLESVILLE [39.10, -77.47], 4.4 SW POOLESVILLE [39.10, -77.47], 4.3 SW POOLESVILLE [39.10, -77.47], 4.3 SW POOLESVILLE [39.10, -77.47]</b>				
	09/27/18 00:06 EST	0		Flood (due to Heavy Rain)
	09/27/18 11:39 EST	0		Source: River/Stream Gage
The USGS stream gage on the Potomac River near Edwards Ferry exceeded the 15 foot flood stage during the indicated period, flooding the lower parking area and boat ramp at Edwards Ferry, and forcing the suspension of service at Whites Ferry. The peak level of 15.38 feet occurred at 6:30am EST.				
<b>ALLEGANY COUNTY --- 0.7 NNE LUKE [39.49, -79.04], 0.7 NNE LUKE [39.49, -79.04], 0.7 NNE LUKE [39.49, -79.04], 0.8 NNE LUKE [39.49, -79.04], 0.8 NE LUKE [39.49, -79.04], 0.7 NNE LUKE [39.49, -79.04]</b>				
	09/27/18 22:45 EST	0		Flood (due to Heavy Rain)
	09/27/18 23:33 EST	0		Source: River/Stream Gage
The river level surpassed flood stage at Georges Creek at Westernport, cresting at 8.09 feet on September 27th at 10:00 PM EST. Water reached the underside of the railroad bridge at downtown Westernport.				
<b>Showers and thunderstorms associated with a cold front produced locally heavy rainfall in Frederick County on the 26th. Runoff from this heavy rain moved into larger rivers, causing flooding on a portion of the Potomac into the 27th.</b>				
<b>MONTGOMERY COUNTY --- 0.9 N SENECA [39.09, -77.33], 0.8 N SENECA [39.09, -77.33], 0.7 N SENECA [39.09, -77.33], 0.8 NNE SENECA [39.09, -77.33], 0.8 N SENECA [39.09, -77.33]</b>				
	09/28/18 00:21 EST	0		Flood (due to Heavy Rain)
	09/28/18 07:46 EST	0		Source: River/Stream Gage
The USGS stream gage on Seneca Creek near Dawsonville exceeded the 7.5 foot flood stage during the indicated period. The peak level of 8.26 feet was observed at 2:55 AM EST. Berryville Road was closed due to flooding between Seneca Road and Finnegan Farm Road.				
<b>WASHINGTON COUNTY --- 2.1 NW PEARRE [39.65, -78.34], 2.0 NW PEARRE [39.65, -78.34], 1.9 NW PEARRE [39.65, -78.34], 1.8 NW PEARRE [39.65, -78.34], 1.7 NNW PEARRE [39.65, -78.34], 1.9 NNW PEARRE [39.65, -78.34]</b>				
	09/28/18 01:05 EST	0		Flood (due to Heavy Rain)
	09/28/18 09:21 EST	0		Source: River/Stream Gage
The USGS stream gage on Sideling Hill Creek near Bellegrave exceeded the 7.5 foot flood stage during the indicated period, flooding lowlands and farmlands near the creek. The peak level of 8.76 feet occurred at 4:15am EST.				

## Storm Data and Unusual Weather Phenomena - September 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>ANNE ARUNDEL COUNTY --- 1.5 WSW RAYNOR HGTS [39.21, -76.70], 1.9 WSW RAYNOR HGTS [39.21, -76.70], 1.9 WSW RAYNOR HGTS [39.21, -76.70], 0.9 NNE RAYNOR HGTS [39.23, -76.66]</b>				
	09/28/18 01:20 EST		0	Flood (due to Heavy Rain)
	09/29/18 01:11 EST		0	Source: River/Stream Gage
The stream gauge on the Patapsco River at Elkridge exceeded the 16 foot flood stage during the indicated period. Hammonds Ferry Road flooded and was closed at the Patapsco River. Backwater flooding led to the closure of Furnace Avenue in Elkridge. The peak level of 20.29 feet occurred at 10:40 AM on the 28th.				
<b>CARROLL COUNTY --- 1.3 NNW KEYMAR [39.62, -77.24], 1.3 NNW KEYMAR [39.62, -77.24], 1.2 NNW KEYMAR [39.62, -77.24], 1.2 NNW KEYMAR [39.61, -77.24], 1.3 NNW KEYMAR [39.62, -77.24]</b>				
	09/28/18 01:24 EST		0	Flood (due to Heavy Rain)
	09/28/18 03:22 EST		0	Source: River/Stream Gage
The USGS stream gage on Big Pipe Creek near Bruceville exceeded the 8 foot flood stage during the indicated period, flooding Keysville-Bruceville Road. The peak level of 8.40 feet was observed at 2:15 am EST.				
<b>WASHINGTON COUNTY --- 0.4 ENE PECKTONVILLE [39.67, -78.04], 0.8 NE PECKTONVILLE [39.68, -78.04], 0.7 NNE PECKTONVILLE [39.68, -78.04], 0.4 NE PECKTONVILLE [39.67, -78.04]</b>				
	09/28/18 02:40 EST		0	Flood (due to Heavy Rain)
	09/28/18 04:40 EST		0	Source: 911 Call Center
The 13200 block of Pectonville Road was closed due to flooding.				
<b>WASHINGTON COUNTY --- 0.7 SSE ASHTON [39.62, -77.91], 0.7 SSE ASHTON [39.62, -77.91], 0.7 SSE ASHTON [39.62, -77.92], 0.7 SSE ASHTON [39.62, -77.92]</b>				
	09/28/18 02:41 EST		0	Flood (due to Heavy Rain)
	09/28/18 04:41 EST		0	Source: 911 Call Center
Ashton Road was closed at Gruber Road due to flooding.				
<b>WASHINGTON COUNTY --- 2.1 NE PECKTONVILLE [39.69, -78.02], 2.3 NE PECKTONVILLE [39.69, -78.02], 2.2 NE PECKTONVILLE [39.69, -78.02], 2.1 NE PECKTONVILLE [39.69, -78.02]</b>				
	09/28/18 02:42 EST		0	Flood (due to Heavy Rain)
	09/28/18 04:42 EST		0	Source: 911 Call Center
The 10400 block of Catholic Church Road was closed due to flooding.				
<b>WASHINGTON COUNTY --- 0.3 NE CORBETT [39.63, -77.73], 0.4 ENE CORBETT [39.63, -77.72], 0.4 ENE CORBETT [39.63, -77.72], 0.3 ENE CORBETT [39.63, -77.73]</b>				
	09/28/18 02:44 EST		0	Flood (due to Heavy Rain)
	09/28/18 04:44 EST		0	Source: 911 Call Center
West Memorial Boulevard was closed at the railroad underpass due to flooding.				
<b>FREDERICK COUNTY --- 0.3 W NEW LONDON [39.42, -77.26], 0.3 W NEW LONDON [39.42, -77.26], 0.3 W NEW LONDON [39.42, -77.26], 0.3 W NEW LONDON [39.42, -77.26]</b>				
	09/28/18 03:43 EST		0	Flood (due to Heavy Rain)
	09/28/18 05:43 EST		0	Source: 911 Call Center
Gas House Pike was closed at New London Road due to flooding.				
<b>FREDERICK COUNTY --- 1.9 E PARK MILLS [39.30, -77.39], 2.0 E PARK MILLS [39.30, -77.38], 2.0 E PARK MILLS [39.30, -77.38], 1.8 E PARK MILLS [39.30, -77.39]</b>				
	09/28/18 03:43 EST		0	Flood (due to Heavy Rain)
	09/28/18 05:43 EST		0	Source: 911 Call Center
The 8100 block of Peters Road was closed due to flooding.				
<b>FREDERICK COUNTY --- 1.2 SE BOLIVAR [39.46, -77.58], 1.3 SE BOLIVAR [39.46, -77.58], 1.2 SE BOLIVAR [39.46, -77.58], 1.2 SE BOLIVAR [39.46, -77.58]</b>				

## Storm Data and Unusual Weather Phenomena - September 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	09/28/18 03:45 EST		0	Flood (due to Heavy Rain)
	09/28/18 05:45 EST		0	Source: 911 Call Center

Shank Road was closed at Alternate Route 40 due to flooding.

**FREDERICK COUNTY --- 1.0 SSE MONROVIA [39.36, -77.26], 1.0 SSE MONROVIA [39.36, -77.26], 1.0 SSE MONROVIA [39.36, -77.26], 1.0 SSE MONROVIA [39.36, -77.26]**

	09/28/18 03:47 EST		0	Flood (due to Heavy Rain)
	09/28/18 05:47 EST		0	Source: 911 Call Center

Weller Road was closed at Weller Hill Drive due to flooding.

**FREDERICK COUNTY --- 1.5 N CATOCTIN [39.34, -77.55], 1.5 N CATOCTIN [39.34, -77.55], 1.4 N CATOCTIN [39.34, -77.55], 1.4 N CATOCTIN [39.34, -77.55]**

	09/28/18 03:48 EST		0	Flood (due to Heavy Rain)
	09/28/18 05:48 EST		0	Source: 911 Call Center

The 3500 Block of Sigler Road was closed due to flooding.

**FREDERICK COUNTY --- 0.8 S JEFFERSON [39.36, -77.53], 0.8 S JEFFERSON [39.36, -77.53], 0.8 S JEFFERSON [39.36, -77.53], 0.8 S JEFFERSON [39.36, -77.53]**

	09/28/18 03:49 EST		0	Flood (due to Heavy Rain)
	09/28/18 03:49 EST		0	Source: 911 Call Center

The 4300 Block of Lander Road was closed due to flooding.

**FREDERICK COUNTY --- 1.6 SW IJAMSVILLE [39.35, -77.35], 1.5 SW IJAMSVILLE [39.36, -77.35], 1.6 SW IJAMSVILLE [39.35, -77.35], 1.6 SW IJAMSVILLE [39.35, -77.35]**

	09/28/18 03:49 EST		0	Flood (due to Heavy Rain)
	09/28/18 05:49 EST		0	Source: 911 Call Center

The 8800 Block of Ball Road was closed due to flooding.

**HOWARD COUNTY --- 2.1 N LISBON [39.36, -77.06], 2.1 NNE LISBON [39.36, -77.06], 2.1 ENE POPLAR SPGS [39.36, -77.06], 2.1 ENE POPLAR SPGS [39.36, -77.06]**

	09/28/18 04:04 EST		0	Flood (due to Heavy Rain)
	09/28/18 06:04 EST		0	Source: 911 Call Center

Woodbine Road was closed at Morgan-Woodbine Road due to flooding.

**BALTIMORE COUNTY --- 0.3 W GLENCOE [39.55, -76.64], 0.4 W GLENCOE [39.55, -76.64], 0.3 W GLENCOE [39.55, -76.64], 0.3 W GLENCOE [39.55, -76.64]**

	09/28/18 04:06 EST		0	Flood (due to Heavy Rain)
	09/28/18 08:12 EST		0	Source: River/Stream Gage

The water levels at Gunpowder Falls at Glencoe surpassed flood stage of 7 feet. The water levels crested at 8.47 feet at 6:00 AM September 28th.

Portions of Upper Glencoe Road and Lower Glencoe Road began to flood.

**CARROLL COUNTY --- 0.7 NW HOUCKSVILLE [39.59, -76.89], 0.6 NNW HOUCKSVILLE [39.59, -76.89], 0.7 NNW HOUCKSVILLE [39.59, -76.89], 0.7 NW HOUCKSVILLE [39.59, -76.89]**

	09/28/18 04:11 EST		0	Flood (due to Heavy Rain)
	09/28/18 06:11 EST		0	Source: 911 Call Center

The 3000 Block of Hofmann Mill Road was closed due to flooding.

**MONTGOMERY COUNTY --- 0.6 SSE BRIGHTON [39.19, -77.02], 0.6 SSE BRIGHTON [39.19, -77.03], 0.5 SSE BRIGHTON [39.19, -77.03], 0.5 SSE BRIGHTON [39.19, -77.03]**

	09/28/18 06:09 EST		0	Flood (due to Heavy Rain)
	09/28/18 08:09 EST		0	Source: Emergency Manager

The EM reported Brighton Dam Road closed due to flooding near New Hampshire Avenue.

## Storm Data and Unusual Weather Phenomena - September 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>WASHINGTON COUNTY --- 1.5 E FAIRVIEW [39.72, -77.82], 1.3 E FAIRVIEW [39.72, -77.83], 1.1 ESE FAIRVIEW [39.71, -77.83], 1.3 ESE FAIRVIEW [39.71, -77.83], 1.5 ESE FAIRVIEW [39.71, -77.82]</b>				
	09/28/18 06:37 EST		0	Flood (due to Heavy Rain)
	09/29/18 00:03 EST		0	Source: River/Stream Gage

The stream gauge along the Conocochoague Creek surpassed the flood stage of 10 feet. the gauge crested at 11.08 feet at 1:00 PM EST September 28th. Wishard Road and Kemp Mill Road were both flooded.

<b>ALLEGANY COUNTY --- 0.9 NE KEIFER [39.54, -78.46], 1.5 N KEIFER [39.55, -78.47], 1.4 WSW GREEN RIDGE [39.57, -78.45], 2.4 SSE GREEN RIDGE [39.55, -78.41], 1.9 ENE KEIFER [39.54, -78.44]</b>				
	09/28/18 12:37 EST		0	Flood (due to Heavy Rain)
	09/28/18 23:23 EST		0	Source: River/Stream Gage

The river level surpassed the flood stage of 25 feet at Paw Paw along the Potomac River. The river level crested at 25.90 feet at 6:15 PM EST September 28th.

A parking area adjacent to the highway bridge was flooded. The roadway to the C&O Canal parking area flooded, as did the lowest end of the Purslane Run hiker/biker area.

<b>FREDERICK COUNTY --- 1.3 SW BRUNSWICK [39.31, -77.65], 1.6 SE BRUNSWICK [39.30, -77.61], 1.3 SSE POINTS OF ROCKS [39.26, -77.54], 0.3 NW DOUBS [39.30, -77.52], 1.0 WSW CATOCTIN [39.32, -77.57]</b>				
	09/28/18 16:15 EST		0	Flood (due to Heavy Rain)
	09/30/18 09:18 EST		0	Source: River/Stream Gage

The river level surpassed the flood stage of 16 feet at Point of Rocks along the Potomac River. The river level crested at 21.39 feet at 11:30 AM EST September 29th.

The boat ramp and lower parking lot at Point of Rocks was flooded. Water approached the water treatment plant in Brunswick. Farmland behind the Tarara Vineyard was flooded. Water approached structures at the Brunswick campground. Water entered the comfort station at the Brunswick boat ramp parking area. The parking lots at both the McKimney and Brunswick boat ramps were flooded. Flooding of an agricultural field adjacent to the McKimney boat ramp occurred. About half the lower parking lot of the Point of Rocks boat ramp was also flooded.

<b>MONTGOMERY COUNTY --- 0.2 E KENWOOD [38.95, -77.13], 0.1 ESE KENWOOD [38.95, -77.13], 0.8 SSW GLEN ECHO [38.96, -77.14], 0.7 SSW GLEN ECHO [38.96, -77.13], 0.4 N KENWOOD [38.96, -77.13]</b>				
	09/29/18 01:00 EST		0	Flood (due to Heavy Rain)
	09/30/18 08:54 EST		0	Source: River/Stream Gage

The USGS stream gage on the Potomac River near Little Falls Dam exceeded the 10 foot flood stage during the indicated period, flooding lowlands and trails near the C&O Canal. The peak level of 11.01 feet occurred at 4:45pm EST on the 29th.

**A warm front moved through the area during the morning hours of the 28th. Warm and moist air associated with a tropical air mass overran the relatively cooler air in place, resulting in heavy rainfall. Also, the steering flow aloft was weak so showers and thunderstorms were slow to move. This enhanced the flooding threat. The resulting flooding moved into larger streams and rivers and continued through the 30th.**

<b>(MD-Z501) EXTREME WESTERN ALLEGANY, (MD-Z502) CENTRAL AND EASTERN ALLEGANY</b>				
	09/29/18 01:07 EST		0	Dense Fog
	09/29/18 05:27 EST		0	

**A combination of clear skies, abundant low level moisture, and light winds led to the formation of fog, some of which became dense with visibility less than a quarter of a mile.**

### VIRGINIA, North

<b>ROCKINGHAM COUNTY --- 2.8 N ROCKY BAR [38.39, -78.68]</b>				
	09/01/18 14:30 EST		0	Thunderstorm Wind (EG 50 kt)
	09/01/18 14:30 EST		0	Source: State Official

Three trees and power lines were blown down in the MaGaheysville and Elkton area.

## Storm Data and Unusual Weather Phenomena - September 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>CLARKE COUNTY --- 2.1 SSW WADESVILLE [39.22, -78.04]</b>				
	09/01/18 15:45 EST		0	Thunderstorm Wind (EG 50 kt)
	09/01/18 15:45 EST		0	Source: State Official
A tree was blown down on Longmarsh Road.				
<b>CLARKE COUNTY --- 2.6 NW BOYCE [39.13, -78.08]</b>				
	09/01/18 15:50 EST		0	Thunderstorm Wind (EG 50 kt)
	09/01/18 15:50 EST		0	Source: State Official
Tree limbs and wires were blown down on Pyletown Road.				
<b>A stalled frontal boundary interacted with a warm and moist air mass to generate showers and thunderstorms, a couple of which became severe.</b>				
<b>PAGE COUNTY --- 0.9 WSW INGHAM [38.53, -78.60], 0.7 NE COMERTOWN [38.51, -78.59], 1.1 NE COMERTOWN [38.51, -78.58], 0.7 WSW INGHAM [38.52, -78.59]</b>				
	09/01/18 15:00 EST		0	Flash Flood (due to Heavy Rain)
	09/01/18 17:00 EST		0	Source: 911 Call Center
A water rescue took place on VA-602. Multiple roads were flooded and closed in town.				
<b>ROCKINGHAM COUNTY --- 4.0 SE ATHLONE [38.49, -78.64], 4.1 SE ATHLONE [38.49, -78.64], 4.1 SE ATHLONE [38.49, -78.64], 4.1 SE ATHLONE [38.49, -78.64]</b>				
	09/01/18 15:53 EST		0	Flash Flood (due to Heavy Rain)
	09/01/18 17:53 EST		0	Source: 911 Call Center
Rinacas Corner Road at Batman Road was closed due to flash flooding.				
<b>PAGE COUNTY --- 0.4 NE SHENANDOAH [38.48, -78.62], 0.4 NE SHENANDOAH [38.48, -78.62], 0.4 NE SHENANDOAH [38.48, -78.62], 0.4 NE SHENANDOAH [38.48, -78.62]</b>				
	09/01/18 15:56 EST		0	Flash Flood (due to Heavy Rain)
	09/01/18 17:56 EST		0	Source: 911 Call Center
Maryland Avenue near First Street was closed due to high water.				
<b>PAGE COUNTY --- 1.3 S GROVE HILL [38.51, -78.62], 1.4 S GROVE HILL [38.51, -78.62], 1.4 WNW COMERTOWN [38.51, -78.62], 1.3 S GROVE HILL [38.51, -78.62]</b>				
	09/01/18 15:58 EST		0	Flash Flood (due to Heavy Rain)
	09/01/18 17:58 EST		0	Source: 911 Call Center
Shenandoah river road at Route 340 was closed due to high water.				
<b>PAGE COUNTY --- 1.0 NNE SHENANDOAH [38.49, -78.62], 1.0 WSW COMERTOWN [38.49, -78.62], 1.1 WSW COMERTOWN [38.49, -78.62], 1.0 NE SHENANDOAH [38.49, -78.62]</b>				
	09/01/18 16:00 EST		0	Flash Flood (due to Heavy Rain)
	09/01/18 18:00 EST		0	Source: 911 Call Center
Water was getting into houses on Junior Avenue. Two water rescues occurred with people trapped in vehicles due to high water.				
<b>FREDERICK COUNTY --- 0.5 NW FREYCO [39.24, -78.11], 0.2 NNW FREYCO [39.23, -78.10], 0.3 N FREYCO [39.23, -78.10], 0.5 NNW FREYCO [39.24, -78.10]</b>				
	09/01/18 16:50 EST		0	Flood (due to Heavy Rain)
	09/01/18 18:50 EST		0	Source: 911 Call Center
Stephonson Road was blocked by high water.				
<b>FREDERICK COUNTY --- 1.6 SE FREYCO [39.21, -78.08], 1.2 SE FREYCO [39.22, -78.08], 1.1 SE FREYCO [39.22, -78.09], 1.5 SE FREYCO [39.21, -78.08]</b>				
	09/01/18 16:50 EST		0	Flood (due to Heavy Rain)
	09/01/18 18:50 EST		0	Source: 911 Call Center
Part of Jordan Springs Road was blocked by high water.				



## Storm Data and Unusual Weather Phenomena - September 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A boundary remain stalled over the region and tropical moisture was in place. This caused locally heavy rainfall which led to instances of flooding and flash flooding.

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(VA-Z025) AUGUSTA, (VA-Z026) ROCKINGHAM, (VA-Z027) SHENANDOAH, (VA-Z028) FREDERICK, (VA-Z029) PAGE, (VA-Z030) WARREN, (VA-Z031) CLARKE, (VA-Z040) RAPPAHANNOCK, (VA-Z501) NORTHERN FAUQUIER, (VA-Z502) SOUTHERN FAUQUIER, (VA-Z503) WESTERN HIGHLAND, (VA-Z504) EASTERN HIGHLAND, (VA-Z507) NORTHERN VIRGINIA BLUE RIDGE, (VA-Z508) CENTRAL VIRGINIA BLUE RIDGE

	09/02/18 02:15 EST	0		Dense Fog
	09/02/18 09:15 EST	0		

A combination of recent rainfall, abundant low level moisture, and light winds led to the formation of fog, some of which became dense with visibility less than a quarter of a mile.

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(VA-Z028) FREDERICK, (VA-Z031) CLARKE, (VA-Z051) CULPEPER, (VA-Z052) PRINCE WILLIAM, (VA-Z055) STAFFORD, (VA-Z056) SPOTSYLVANIA, (VA-Z057) KING GEORGE, (VA-Z501) NORTHERN FAUQUIER, (VA-Z502) SOUTHERN FAUQUIER

	09/04/18 11:00 EST	0		Heat
	09/04/18 18:00 EST	0		

Ridging at the surface and aloft led to hot and humid conditions.

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ARLINGTON COUNTY --- 0.7 SE SOUTH WASHINGTON [38.86, -77.04], 0.9 SSE SOUTH WASHINGTON [38.86, -77.04], 0.7 S SOUTH WASHINGTON [38.86, -77.05], 0.6 SSE SOUTH WASHINGTON [38.86, -77.05]

	09/07/18 21:05 EST	0		Flood (due to Heavy Rain)
	09/07/18 23:05 EST	0		Source: Fire Department/Rescue

A vehicle was trapped in high water on the George Washington Memorial Parkway near Ronald Reagan National Airport.

A boundary remain stalled over the region and tropical moisture was in place. This caused locally heavy rainfall. The steering flow aloft was weak so showers and storms moved slowly, which led to instances of flooding.

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AUGUSTA COUNTY --- 1.6 W MT SOLON [38.35, -79.11], 1.4 W MT SOLON [38.35, -79.11], 1.2 W MT SOLON [38.35, -79.10], 1.5 WSW MT SOLON [38.34, -79.11]

	09/09/18 04:17 EST	0		Flood (due to Heavy Rain)
	09/09/18 06:17 EST	0		Source: Department of Highways

VA-758 George Waltons Road was closed due to flooding between VA-730 North River Road and VA-747 Free Mason Road.

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FAIRFAX COUNTY --- 0.8 WNW CLARKS CROSSING [38.92, -77.31], 0.6 WNW CLARKS CROSSING [38.92, -77.31], 0.5 WNW CLARKS CROSSING [38.92, -77.31], 0.8 WNW CLARKS CROSSING [38.92, -77.31]

	09/09/18 12:48 EST	0		Flood (due to Heavy Rain)
	09/09/18 14:48 EST	0		Source: Emergency Manager

Lawyers Road was shut down near Hunter Mill Road due to high water.

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SHENANDOAH COUNTY --- 0.7 SSE JEROME [38.86, -78.71], 0.5 E JEROME [38.87, -78.71], 0.5 NE JEROME [38.88, -78.71], 0.4 SW LIBERTY FURNACE [38.88, -78.71], 0.9 ESE JEROME [38.86, -78.71]

	09/09/18 13:56 EST	0		Flood (due to Heavy Rain)
	09/09/18 15:56 EST	0		Source: Department of Highways

VA-611 Supinlick Ridge road was closed due to flooding between VA-717 Liberty Furnace Road and VA-701 Dellinger Gap Road.

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CLARKE COUNTY --- 1.8 S WADESVILLE [39.22, -78.03], 2.2 S WADESVILLE [39.22, -78.03], 1.8 SSW SWIMLEY [39.22, -78.01], 1.6 SSW SWIMLEY [39.23, -78.01]

	09/09/18 13:57 EST	0		Flood (due to Heavy Rain)
	09/10/18 09:00 EST	0		Source: Department of Highways

VA-761 Old Charles Town Road was closed due to flooding between VA-632 Crums Church Road and VA-659 Longmarsh Road.

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FREDERICK COUNTY --- 1.8 ESE ARMEL [39.07, -78.12], 1.7 SE ARMEL [39.06, -78.13], 0.6 SE ARMEL [39.07, -78.14], 0.5 ESE ARMEL [39.08, -78.14]

	09/09/18 13:57 EST	0		Flood (due to Heavy Rain)
	09/09/18 15:57 EST	0		Source: Department of Highways

VA-646 Nations Spring Road was closed due to flooding between VA-644 and US-522.

## Storm Data and Unusual Weather Phenomena - September 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>LOUDOUN COUNTY --- 1.4 S LEESBURG MUNI [39.06, -77.55], 1.3 S LEESBURG MUNI [39.06, -77.55], 1.3 S LEESBURG MUNI [39.06, -77.55], 1.4 S LEESBURG MUNI [39.06, -77.55]</b>				
	09/09/18 14:42 EST		0	Flood (due to Heavy Rain)
	09/09/18 16:42 EST		0	Source: Department of Highways
VA-653 Shreve Mill Road was closed due to flooding at VA-643 Sycolin Road.				
<b>FAIRFAX COUNTY --- 2.1 NNW VALE [38.91, -77.36], 1.9 NNW VALE [38.91, -77.36], 1.9 NNW VALE [38.91, -77.36], 2.2 NNW VALE [38.91, -77.36]</b>				
	09/09/18 14:50 EST		0	Flood (due to Heavy Rain)
	09/09/18 16:50 EST		0	Source: 911 Call Center
Fox Mill Road near Shady Mill Lane was closed due to high water.				
<b>FREDERICK COUNTY --- 2.8 N SILER [39.39, -78.25], 3.1 N SILER [39.40, -78.25], 3.1 N SILER [39.40, -78.25], 2.7 N SILER [39.39, -78.25]</b>				
	09/09/18 14:59 EST		0	Flood (due to Heavy Rain)
	09/10/18 09:00 EST		0	Source: Department of Highways
VA-692 Pack Horse Road was closed due to flooding.				
<b>CLARKE COUNTY --- 2.8 NW WATERLOO [39.11, -78.12], 2.6 NW WATERLOO [39.11, -78.11], 2.1 NW WATERLOO [39.10, -78.10], 2.3 NNW WATERLOO [39.11, -78.10]</b>				
	09/09/18 17:26 EST		0	Flood (due to Heavy Rain)
	09/09/18 19:26 EST		0	Source: Department of Highways
High water blocked the end of VA-644 Ginss Road/East Parkins Mill Road.				
<b>FREDERICK COUNTY --- 1.2 E WINCHESTER ARPT [39.15, -78.13], 2.6 SE BURNING KNOLLS [39.15, -78.09], 2.4 ESE BURNING KNOLLS [39.15, -78.09], 0.8 E WINCHESTER ARPT [39.15, -78.13]</b>				
	09/09/18 17:26 EST		0	Flood (due to Heavy Rain)
	09/10/18 09:00 EST		0	Source: Department of Highways
VA-655 Sulphur Springs Road was closed due to flooding near US-50 Millwood Pike.				
<b>FREDERICK COUNTY --- 0.6 ENE NAIN [39.23, -78.19], 0.5 ENE NAIN [39.23, -78.19], 0.7 ENE NAIN [39.23, -78.19], 0.8 ENE NAIN [39.23, -78.19]</b>				
	09/09/18 19:26 EST		0	Flood (due to Heavy Rain)
	09/10/18 09:00 EST		0	Source: Department of Highways
Golds Hill Road was closed due to flooding.				
<b>FREDERICK COUNTY --- 1.3 WNW GREEN SPG [39.31, -78.19], 0.9 NW GREEN SPG [39.31, -78.18], 0.9 NNW GREEN SPG [39.31, -78.18], 1.4 NW GREEN SPG [39.31, -78.19]</b>				
	09/09/18 19:26 EST		0	Flood (due to Heavy Rain)
	09/09/18 21:26 EST		0	Source: Department of Highways
Glaize Orchard Road was closed due to flooding near Drillers Lane.				
<b>FREDERICK COUNTY --- 0.9 NE WHITACRE [39.34, -78.32], 0.5 ENE WHITACRE [39.33, -78.32], 0.4 ENE WHITACRE [39.33, -78.32], 0.9 NNE WHITACRE [39.34, -78.32]</b>				
	09/09/18 19:29 EST		0	Flood (due to Heavy Rain)
	09/09/18 21:29 EST		0	Source: Department of Highways
VA-700 Gardners Road was closed due to flooding.				
<b>FREDERICK COUNTY --- 1.3 ESE SILER [39.34, -78.23], 1.6 SE SILER [39.34, -78.23], 1.7 ESE SILER [39.34, -78.22], 1.5 ESE SILER [39.34, -78.22]</b>				
	09/09/18 19:29 EST		0	Flood (due to Heavy Rain)
	09/09/18 21:29 EST		0	Source: Department of Highways
VA-681 Three Creeks Road/Hunting Ridge Road was closed due to flooding near Shadow Brook Lane.				
<b>FREDERICK COUNTY --- 1.6 SSW SILER [39.33, -78.26], 1.7 SSW SILER [39.33, -78.27], 1.6 SW SILER [39.33, -78.27], 1.5 SSW SILER [39.33, -78.26], 1.4 SSW SILER [39.33, -78.26]</b>				

## Storm Data and Unusual Weather Phenomena - September 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	09/09/18 19:29 EST		0	Flood (due to Heavy Rain)
	09/09/18 21:29 EST		0	Source: Department of Highways

VA-689 Adams Road was closed due to flooding near Easter Ridge Lane.

**FREDERICK COUNTY --- 1.6 W GREEN SPG [39.30, -78.20], 1.5 WSW GREEN SPG [39.29, -78.20], 1.0 SW GREEN SPG [39.29, -78.19], 0.7 WSW GREEN SPG [39.30, -78.18]**

	09/09/18 19:29 EST		0	Flood (due to Heavy Rain)
	09/09/18 21:29 EST		0	Source: Department of Highways

VA-731 Cattail Road was closed due to flooding near Creola Drive.

**FREDERICK COUNTY --- 1.7 NNE WHITACRE [39.35, -78.31], 1.4 NE WHITACRE [39.35, -78.31], 1.5 NE WHITACRE [39.34, -78.31], 1.6 NE WHITACRE [39.35, -78.31]**

	09/09/18 19:29 EST		0	Flood (due to Heavy Rain)
	09/09/18 21:29 EST		0	Source: Department of Highways

VA-699 New Hope Road was closed due to flooding near US-522 North Frederick Pike.

**FREDERICK COUNTY --- 2.2 N ROUND HILL [39.23, -78.24], 2.2 ENE HAYFIELD [39.25, -78.27], 1.5 ENE HAYFIELD [39.24, -78.28], 1.9 N ROUND HILL [39.23, -78.25]**

	09/09/18 19:29 EST		0	Flood (due to Heavy Rain)
	09/10/18 09:00 EST		0	Source: Department of Highways

Indian Hollow Road was closed due to flooding near North Hayfield Road and Frederick Pike.

**FREDERICK COUNTY --- 3.6 NNE WHITACRE [39.38, -78.31], 3.4 NW SILER [39.38, -78.30], 3.6 NW SILER [39.38, -78.30], 3.9 NW SILER [39.38, -78.31]**

	09/09/18 19:29 EST		0	Flood (due to Heavy Rain)
	09/09/18 21:29 EST		0	Source: Department of Highways

VA-694 Cumberland Trail Road was closed due to flooding near VA-696 South Timber Ridge Road.

**FREDERICK COUNTY --- 5.1 NNW SILER [39.42, -78.28], 4.2 NW SILER [39.39, -78.30], 3.6 NW SILER [39.39, -78.29], 4.6 NNW SILER [39.42, -78.27]**

	09/09/18 19:29 EST		0	Flood (due to Heavy Rain)
	09/09/18 21:29 EST		0	Source: Department of Highways

VA-695 Middle Fork Road was closed due to flooding north of US-522.

**SHENANDOAH COUNTY --- 0.7 S FAIRMONT SCHOOL [39.02, -78.47], 0.8 NNW FAIRMONT SCHOOL [39.04, -78.48], 1.2 NW FAIRMONT SCHOOL [39.04, -78.49], 0.8 SSW FAIRMONT SCHOOL [39.02, -78.47]**

	09/09/18 19:29 EST		0	Flood (due to Heavy Rain)
	09/10/18 09:00 EST		0	Source: Department of Highways

VA-600 Zepp Road was closed due to flooding near the Shenandoah County Line.

**Low pressure tracked to the west while a nearly stationary boundary was to the south. Warm and moist tropical air overran the surface cooler air in place, resulting in a moderate to heavy rainfall. Excess runoff from the rainfall led to flooding.**

**(VA-Z054) ARLINGTON**

	09/09/18 17:17 EST		0	Coastal Flood
	09/11/18 22:24 EST		0	

**Strong onshore flow, in addition to high amounts of freshwater from heavy rain, led to increased water level anomalies and coastal flooding along the Potomac River.**

**(VA-Z052) PRINCE WILLIAM, (VA-Z053) FAIRFAX, (VA-Z054) ARLINGTON, (VA-Z055) STAFFORD, (VA-Z502) SOUTHERN FAUQUIER, (VA-Z506) EASTERN LOUDOUN**

	09/11/18 01:52 EST		0	Dense Fog
	09/11/18 08:15 EST		0	

**A combination of cold air damming, abundant low level moisture, and light winds led to the formation of fog, some of which became dense with visibility less than a quarter of a mile.**

## Storm Data and Unusual Weather Phenomena - September 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>AUGUSTA COUNTY --- 1.5 E SHERANDO [37.98, -78.97], 1.5 E SHERANDO [37.98, -78.97], 1.5 E SHERANDO [37.98, -78.97], 1.5 E SHERANDO [37.98, -78.97]</b>				
	09/17/18 07:44 EST		0	Flood (due to Heavy Rain)
	09/17/18 09:44 EST		0	Source: 911 Call Center
Howardsville Turnpike was closed at the intersection with China Clay Road.				
<b>AUGUSTA COUNTY --- 0.2 NE AUGUSTA SPGS [38.10, -79.32], 0.2 ENE AUGUSTA SPGS [38.10, -79.32], 0.2 ENE AUGUSTA SPGS [38.10, -79.32], 0.1 NE AUGUSTA SPGS [38.10, -79.32]</b>				
	09/17/18 08:20 EST		0	Flood (due to Heavy Rain)
	09/17/18 10:20 EST		0	Source: 911 Call Center
Estaline Valley Road was closed due to flooding.				
<b>AUGUSTA COUNTY --- 2.1 SE WAYNESBORO ARPT [38.06, -78.90], 2.2 SE WAYNESBORO ARPT [38.06, -78.90], 2.2 SE WAYNESBORO ARPT [38.06, -78.90], 2.2 SE WAYNESBORO ARPT [38.06, -78.90], 2.1 SE WAYNESBORO ARPT [38.06, -78.90]</b>				
	09/17/18 08:22 EST		0	Flood (due to Heavy Rain)
	09/17/18 19:30 EST		0	Source: River/Stream Gage
The water level at Waynesboro near Rife Road surpassed flood stage of 10.5 feet, cresting at 13.14 feet on September 17th at 12:45 PM.				
<b>AUGUSTA COUNTY --- 2.2 SE WAYNESBORO ARPT [38.06, -78.90], 2.4 SE WAYNESBORO ARPT [38.06, -78.89], 2.4 ESE WAYNESBORO ARPT [38.06, -78.89], 2.1 SE WAYNESBORO ARPT [38.06, -78.90]</b>				
	09/17/18 08:22 EST		0	Flood (due to Heavy Rain)
	09/17/18 19:30 EST		0	Source: River/Stream Gage
The stream gauge indicated minor flooding at Rife Road. The gauge crested at 10.5 feet, above the flood stage of 9 feet.				
<b>NELSON COUNTY --- 0.9 W NELLYSFORD [37.88, -78.90], 1.0 W NELLYSFORD [37.88, -78.90], 1.3 WSW NELLYSFORD [37.87, -78.90], 1.4 W NELLYSFORD [37.88, -78.91], 1.1 W NELLYSFORD [37.88, -78.90]</b>				
	09/17/18 08:30 EST		0	Flood (due to Heavy Rain)
	09/17/18 10:30 EST		0	Source: 911 Call Center
Glenthorn Loop Road was closed due to flooding.				
<b>NELSON COUNTY --- 2.1 WSW BUFFALO MINES [37.72, -79.07], 2.2 WSW BUFFALO MINES [37.72, -79.07], 2.2 WSW BUFFALO MINES [37.72, -79.07], 2.1 WSW BUFFALO MINES [37.72, -79.07]</b>				
	09/17/18 08:30 EST		0	Flood (due to Heavy Rain)
	09/17/18 10:30 EST		0	Source: 911 Call Center
There was a swift water rescue on the bridge over Piney River.				
<b>NELSON COUNTY --- LOVINGSTON [37.77, -78.88], 0.3 S LOVINGSTON [37.77, -78.88], 0.2 SSE LOVINGSTON [37.77, -78.88], 0.2 E LOVINGSTON [37.77, -78.88]</b>				
	09/17/18 08:30 EST		0	Flood (due to Heavy Rain)
	09/17/18 10:30 EST		0	Source: Emergency Manager
Crabtree Falls highway was closed due to flooding.				
<b>AUGUSTA COUNTY --- 1.8 SE WAYNESBORO ARPT [38.06, -78.91], 1.8 SE WAYNESBORO ARPT [38.06, -78.91], 1.9 SE WAYNESBORO ARPT [38.06, -78.91], 2.0 SE WAYNESBORO ARPT [38.06, -78.91], 2.0 SE WAYNESBORO ARPT [38.06, -78.91], 1.8 SE WAYNESBORO ARPT [38.06, -78.91]</b>				
	09/17/18 08:36 EST		0	Flood (due to Heavy Rain)
	09/17/18 18:50 EST		0	Source: River/Stream Gage
The water level surpassed flood stage of 9.5 feet, cresting at 11.92 feet on September 17th at noon. Portions of the Club Court neighborhood was flooded.				
<b>AUGUSTA COUNTY --- 2.0 SE WAYNESBORO ARPT [38.06, -78.91], 1.7 SE WAYNESBORO ARPT [38.06, -78.91], 1.7 SE WAYNESBORO ARPT [38.06, -78.91], 2.0 SE WAYNESBORO ARPT [38.06, -78.91]</b>				
	09/17/18 08:36 EST		0	Flood (due to Heavy Rain)
	09/17/18 18:50 EST		0	Source: River/Stream Gage

## Storm Data and Unusual Weather Phenomena - September 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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The stream on south River at Waynesboro crested above the flood stage of 8 feet at 9.5 feet. Portions of the Club Court neighborhood flooded.

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**NELSON COUNTY --- 2.1 S ROSELAND [37.72, -78.98], 0.4 WNW ROSELAND [37.75, -78.99], 0.2 ENE ROSELAND [37.75, -78.98], 1.7 NNW COLLEEN [37.72, -78.96]**

09/17/18 10:15 EST	0	Flood (due to Heavy Rain)
09/17/18 16:38 EST	0	Source: River/Stream Gage

The water level on the Tye River in Lovingson surpassed flood stage of 13 feet, cresting at 15.6 feet on September 17th at 12:45 PM. Roseland Road was flooded. Agricultural fields near the river were flooded.

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**MADISON COUNTY --- 0.5 SE PEOLA MILLS [38.53, -78.26], 1.0 ESE PEOLA MILLS [38.52, -78.25], 2.0 E PEOLA MILLS [38.53, -78.23], 1.5 NE PEOLA MILLS [38.55, -78.25]**

09/17/18 10:24 EST	0	Flood (due to Heavy Rain)
09/17/18 12:24 EST	0	Source: Department of Highways

Multiple roads were flooded and closed in the Ethan area.

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**ALBEMARLE COUNTY --- 3.5 N IVY [38.10, -78.59], 3.3 N IVY [38.10, -78.59], 3.0 N IVY [38.09, -78.59], 3.1 N IVY [38.09, -78.60], 3.3 N IVY [38.10, -78.60], 3.4 N IVY [38.10, -78.60]**

09/17/18 10:30 EST	0	Flood (due to Heavy Rain)
09/17/18 12:30 EST	0	Source: River/Stream Gage

The stream gauge at Mechums River indicated that minor flooding was occurring when it crested above the flood stage of 11 feet.

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**GREENE COUNTY --- 2.2 ENE LYDIA [38.34, -78.46], 2.4 ENE LYDIA [38.34, -78.46], 2.4 SW KINDERHOOK [38.34, -78.46], 2.3 SW KINDERHOOK [38.34, -78.46]**

09/17/18 10:51 EST	0	Flood (due to Heavy Rain)
09/17/18 12:51 EST	0	Source: Department of Highways

Octonai Road was closed and flooded near south River Road. Every Run Road and Route 634 were also flooded and closed in the area.

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**NELSON COUNTY --- 1.4 N ADIAL [37.87, -78.82], 1.3 NNW ADIAL [37.87, -78.83], 1.2 NNW ADIAL [37.87, -78.83], 1.0 NNW ADIAL [37.86, -78.83], 1.0 N ADIAL [37.86, -78.82], 1.2 N ADIAL [37.87, -78.82], 1.3 N ADIAL [37.87, -78.82]**

09/17/18 11:06 EST	0	Flood (due to Heavy Rain)
09/17/18 16:08 EST	0	Source: River/Stream Gage

The stream gauge on Rockfish River crested at 13.2 feet, above the flood stage of 12 feet. Water covered a portion of Route 617 near the river. Also, nearby fields were flooded.

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**NELSON COUNTY --- 2.0 N LOVINGSTON [37.80, -78.88], 2.3 SW LOVINGSTON [37.75, -78.91], 2.3 ESE ELMA [37.74, -78.76], 5.5 ENE SCHUYLER [37.80, -78.60], 1.4 N FABER [37.85, -78.75]**

09/17/18 11:06 EST	0	Flood (due to Heavy Rain)
09/17/18 13:06 EST	0	Source: Department of Highways

Numerous roads were closed due to flooding in Nelson County.

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**ALBEMARLE COUNTY --- 2.4 SSE FREE UNION [38.14, -78.56], 2.2 SSE FREE UNION [38.14, -78.56], 2.2 SSE FREE UNION [38.14, -78.56], 2.1 SSE FREE UNION [38.14, -78.56], 2.2 SSE FREE UNION [38.14, -78.56], 2.3 SSE FREE UNION [38.14, -78.56]**

09/17/18 11:30 EST	0	Flood (due to Heavy Rain)
09/17/18 13:30 EST	0	Source: River/Stream Gage

The stream gauge at Morrman's River near Free Union indicated that minor flooding occurred when it crested above the flood stage of 14 feet.

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**ALBEMARLE COUNTY --- 1.9 NE FARMINGTON [38.07, -78.52], 2.2 S BATESVILLE [37.97, -78.74], 1.1 ESE ESMONT [37.82, -78.60], 1.7 N RUGBY [38.04, -78.33]**

09/17/18 11:39 EST	0	Flood (due to Heavy Rain)
09/17/18 13:39 EST	0	Source: Department of Highways

Several roads were closed in Albemarle County.

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**ROCKINGHAM COUNTY --- 4.3 S GROTTOS [38.21, -78.84], 2.2 SSW GROTTOS [38.24, -78.84], 0.9 SSW GROTTOS [38.26, -78.83], 0.8 S GROTTOS [38.26, -78.83], 3.0 S GROTTOS [38.23, -78.83], 4.3 S GROTTOS [38.21, -78.83]**

## Storm Data and Unusual Weather Phenomena - September 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	09/17/18 11:47 EST		0	Flood (due to Heavy Rain)
	09/18/18 04:19 EST		0	Source: River/Stream Gage

The water level at the Harriston Gauge along the South River surpassed the flood stage of 9.5 feet, and crested at 12.32 feet on September 17th at 6:00 PM EST.

Trixie Lane was flooded. Water approached homes near the river, along with nearby fields.

Water reached a low spot on Route 625. The very end of Route 770 was flooded,

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<b>AUGUSTA COUNTY --- 0.7 WSW CHURCHVILLE [38.23, -79.16], 1.3 WSW CHURCHVILLE [38.22, -79.17], 1.0 SW CHURCHVILLE [38.22, -79.16], 0.7 SSW CHURCHVILLE [38.22, -79.15], 0.7 SSE CHURCHVILLE [38.22, -79.15], 0.2 SSW CHURCHVILLE [38.23, -79.15]</b>	09/17/18 12:11 EST		0	Flood (due to Heavy Rain)
	09/17/18 14:11 EST		0	Source: Department of Highways

Numerous roads were closed in the Churchville area and throughout Augusta County.

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<b>AUGUSTA COUNTY --- 1.4 S MT MERIDIAN [38.25, -78.87], 0.8 E MT MERIDIAN [38.27, -78.86], 0.2 NE MT MERIDIAN [38.27, -78.87], 1.6 SSW MT MERIDIAN [38.25, -78.88]</b>	09/17/18 16:00 EST		0	Flood (due to Heavy Rain)
	09/18/18 13:16 EST		0	Source: River/Stream Gage

The water level at Grottoes on the Middle River passed flood stage of 12 feet. The water crested at 17.83 feet at 6:30 AM, September 18th.

Water approached a driveway near Route 778, and water approached Route 774. Fields along the river were to flooded.

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<b>PAGE COUNTY --- 0.9 ESE LURAY [38.66, -78.46], 0.7 SW LURAY [38.66, -78.48], 1.5 SSW LURAY [38.65, -78.48], 1.8 S LURAY [38.64, -78.47], 1.2 WNW FAIRVIEW [38.66, -78.45]</b>	09/17/18 16:54 EST		0	Flood (due to Heavy Rain)
	09/17/18 18:54 EST		0	Source: Department of Highways

Several roads were closed in Page County.

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<b>FREDERICK COUNTY --- 2.2 ENE HAYFIELD [39.24, -78.26], 1.2 NE ALBIN [39.23, -78.17], 0.6 NE BURNING KNOLLS [39.18, -78.12], 1.6 N CAUNTERBURG [39.07, -78.19], 0.7 SSE MT PLEASANT [39.16, -78.30]</b>	09/17/18 16:58 EST		0	Flood (due to Heavy Rain)
	09/17/18 18:58 EST		0	Source: Department of Highways

Several roads were closed in Frederick County.

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<b>SHENANDOAH COUNTY --- 0.3 SSE WOODSTOCK [38.88, -78.52], 0.8 ENE LANTZ MILLS [38.84, -78.59], 0.5 ESE BOWMAN [38.80, -78.57], 2.1 WNW CARMEL [38.83, -78.46], 3.2 NW SEVEN FOUNTAINS [38.88, -78.45]</b>	09/17/18 17:01 EST		0	Flood (due to Heavy Rain)
	09/17/18 19:01 EST		0	Source: Department of Highways

Several roads were closed in Shenandoah County.

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<b>RAPPAHANNOCK COUNTY --- 0.9 SE WASHINGTON [38.71, -78.16], 2.1 ESE SMEDLEY [38.69, -78.19], 2.1 NNW FIVE FORKS [38.68, -78.18], 1.7 SSW MASSIES CORNER [38.70, -78.13]</b>	09/17/18 20:16 EST		0	Flood (due to Heavy Rain)
	09/17/18 22:16 EST		0	Source: 911 Call Center

Over a dozen roads were closed across Rappahannock County due to flooding.

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<b>SHENANDOAH COUNTY --- 2.0 ENE WOODSTOCK [38.89, -78.48], 0.8 NW BOWMAN [38.81, -78.59], 1.0 SE BOWMAN [38.79, -78.57], 3.0 SSE MAURERTOWN [38.89, -78.44]</b>	09/17/18 22:30 EST		0	Flood (due to Heavy Rain)
	09/17/18 23:45 EST		0	Source: River/Stream Gage

The river level at Mount Jackson on the Shenandoah River surpassed flood stage of 13 feet, cresting at 13.05 feet.

Agricultural flooding took place along the river. Water approached a road near the river in Mount Jackson. Downstream, several low water crossings were flooded between Woodstock and Strasburg.

## Storm Data and Unusual Weather Phenomena - September 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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**PAGE COUNTY --- 0.7 WNW LEAKSVILLE [38.63, -78.54], 1.5 SW HAMBURG [38.65, -78.55], 0.4 S HAMBURG [38.66, -78.53], 0.8 NE LEAKSVILLE [38.64, -78.52]**

09/18/18 00:23 EST		0		Flood (due to Heavy Rain)
09/18/18 22:51 EST		0		Source: River/Stream Gage

Water level at the gauge along the South Fork Shenandoah River at Luray surpassed flood stage of 14 feet. The water crested at 17.63 feet at 10:15 AM ES, September 18th.

Water covered the entire parking area at the Bixlers Ferry boat launch. Portions of Kaufmann Mill Road, Ganders Drive, and Egypt Bend Road were flooded. Water covered yards and fields near the river southwest of Luray.

**AUGUSTA COUNTY --- 1.1 ENE PIEDMONT [38.23, -78.88], 1.0 ENE PIEDMONT [38.23, -78.88], 1.0 ENE PIEDMONT [38.23, -78.89], 1.0 ENE PIEDMONT [38.23, -78.88]**

09/18/18 05:18 EST		0		Flood (due to Heavy Rain)
09/18/18 07:18 EST		0		Source: 911 Call Center

Battlefield Road at Hatchery Road was closed due to high water. A water rescue occurred for a car that drove into the high water.

**WARREN COUNTY --- 1.8 WSW FRONT ROYAL [38.91, -78.21], 1.7 W FRONT ROYAL [38.92, -78.21], 1.8 W FRONT ROYAL [38.92, -78.21], 1.8 WSW FRONT ROYAL [38.91, -78.21]**

09/18/18 12:11 EST		0		Flood (due to Heavy Rain)
09/19/18 07:34 EST		0		Source: River/Stream Gage

Water level at the gauge along the South Fork Shenandoah River at Front Royal surpassed flood stage of 12 feet. The water crested at 14.34 feet at 9:15 PM EST, September 18th.

Railroad tracks along the river south of Front Royal began to flood. Water approached structures in Riverton. Backwater begins to creep up Luray Avenue toward the railroad trestle. A riverside parking area at the end of Luray Avenue was flooded.

**The remnants of Florence slowly tracked through the area on the 17th and 18th. Plenty of tropical moisture caused showers and thunderstorms to contain locally heavy rainfall, which led to instances of flooding.**

**ALBEMARLE COUNTY --- 0.7 N GILBERT [38.14, -78.37]**

09/19/18 15:35 EST		0		Hail (1.00 in)
09/19/18 15:35 EST		0		Source: Broadcast Media

Hail up to the size of quarters fell at this location.

**ALBEMARLE COUNTY --- 1.6 SE GILBERT [38.12, -78.35]**

09/19/18 15:35 EST		0		Thunderstorm Wind (EG 60 kt)
09/19/18 15:35 EST		0		Source: State Official

Multiple large trees were blown down, some onto wires, concentrated near the intersection of Turkey Sag Road and Stony Point Road.

**A weakening front combined with a weak disturbance to generate an isolated severe thunderstorm in the late afternoon hours.**

**(VA-Z025) AUGUSTA, (VA-Z026) ROCKINGHAM, (VA-Z027) SHENANDOAH, (VA-Z029) PAGE, (VA-Z030) WARREN, (VA-Z037) ALBEMARLE, (VA-Z038) GREENE, (VA-Z039) MADISON, (VA-Z040) RAPPAHANNOCK, (VA-Z050) ORANGE, (VA-Z051) CULPEPER, (VA-Z056) SPOTSYLVANIA, (VA-Z502) SOUTHERN FAUQUIER**

09/20/18 00:35 EST		0		Dense Fog
09/20/18 08:55 EST		0		

**A combination of clear skies, abundant low level moisture, and light winds led to the formation of fog, some of which became dense with visibility less than a quarter of a mile.**

**AUGUSTA COUNTY --- 2.2 N SWOOPE [38.20, -79.19], 2.2 NNE SWOOPE [38.20, -79.19], 2.1 NNE SWOOPE [38.20, -79.19], 2.2 N SWOOPE [38.20, -79.20]**

09/23/18 03:24 EST		0		Flood (due to Heavy Rain)
09/23/18 05:24 EST		0		Source: 911 Call Center

Morris Mill Road was closed due to flooding between Buffalo Gap Highway and Buffalo Branch Line.

## Storm Data and Unusual Weather Phenomena - September 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>AUGUSTA COUNTY --- 1.6 S NEW HOPE [38.18, -78.90], 1.6 S NEW HOPE [38.18, -78.90], 1.6 S NEW HOPE [38.18, -78.90], 1.6 S NEW HOPE [38.18, -78.90]</b>				
	09/23/18 03:27 EST	0		Flood (due to Heavy Rain)
	09/23/18 05:27 EST	0		Source: 911 Call Center
New Hope-Crimora Road was closed due to flooding between the 300 and 1000 Block.				
<b>AUGUSTA COUNTY --- 0.5 ESE BURKETOWN [38.30, -78.92], 0.9 SE BURKETOWN [38.29, -78.92], 0.8 SE BURKETOWN [38.29, -78.92], 0.4 ESE BURKETOWN [38.30, -78.92]</b>				
	09/23/18 03:29 EST	0		Flood (due to Heavy Rain)
	09/23/18 05:29 EST	0		Source: 911 Call Center
Dices Spring Road was closed due to flooding.				
<b>AUGUSTA COUNTY --- 0.7 NW WEST VIEW [38.18, -79.18], 0.7 NNW HEBRON [38.16, -79.15], 0.6 NW HEBRON [38.16, -79.16], 0.8 WNW WEST VIEW [38.17, -79.18]</b>				
	09/23/18 05:11 EST	0		Flood (due to Heavy Rain)
	09/23/18 07:11 EST	0		Source: 911 Call Center
Parkersburg Turnpike was closed in multiple spots due to flooding.				
<b>AUGUSTA COUNTY --- 1.2 NNE ESTALINE [38.09, -79.34], 0.1 SE AUGUSTA SPGS [38.10, -79.32], 0.1 W AUGUSTA SPGS [38.10, -79.32], 1.4 WSW AUGUSTA SPGS [38.09, -79.34]</b>				
	09/23/18 05:11 EST	0		Flood (due to Heavy Rain)
	09/23/18 07:11 EST	0		Source: 911 Call Center
Augusta Springs road was closed due to flooding.				
<b>AUGUSTA COUNTY --- 1.9 SSW FORDWICK [38.05, -79.39], 1.9 SW FORDWICK [38.05, -79.39], 1.9 SSW FORDWICK [38.05, -79.39], 1.8 SSW FORDWICK [38.05, -79.39]</b>				
	09/23/18 05:11 EST	0		Flood (due to Heavy Rain)
	09/23/18 07:11 EST	0		Source: 911 Call Center
Wallace Mill Road was closed near Bashaw Road due to flooding.				
<b>AUGUSTA COUNTY --- 2.4 SE CHURCHVILLE [38.21, -79.11], 2.5 SE CHURCHVILLE [38.21, -79.12], 2.4 SE CHURCHVILLE [38.21, -79.12], 2.3 SE CHURCHVILLE [38.21, -79.12]</b>				
	09/23/18 05:11 EST	0		Flood (due to Heavy Rain)
	09/23/18 07:11 EST	0		Source: 911 Call Center
The 400 block of Franks Mill Road was closed due to flooding.				
<b>ROCKINGHAM COUNTY --- 1.8 SSW SWIFT RUN [38.37, -78.59], 1.6 NE BELDOR [38.37, -78.58], 1.4 NE BELDOR [38.37, -78.58], 1.8 NNE BELDOR [38.37, -78.59]</b>				
	09/23/18 07:30 EST	0		Flood (due to Heavy Rain)
	09/23/18 09:30 EST	0		Source: 911 Call Center
Spotswood Trail was closed near Mountain Road due to flooding.				
<b>AUGUSTA COUNTY --- 1.3 SE CHURCHVILLE [38.22, -79.13], 1.2 SE CHURCHVILLE [38.22, -79.13], 1.1 SE CHURCHVILLE [38.22, -79.14], 1.3 SE CHURCHVILLE [38.22, -79.14]</b>				
	09/23/18 11:00 EST	0		Flood (due to Heavy Rain)
	09/23/18 13:00 EST	0		Source: 911 Call Center
Parts of Vinegar Hill Road were closed due to flooding near Churchill Avenue.				
<b>AUGUSTA COUNTY --- 1.4 S MT MERIDIAN [38.25, -78.87], 0.8 E MT MERIDIAN [38.27, -78.86], 0.2 NE MT MERIDIAN [38.27, -78.87], 1.5 SSW MT MERIDIAN [38.25, -78.88]</b>				
	09/23/18 12:02 EST	0		Flood (due to Heavy Rain)
	09/24/18 05:47 EST	0		Source: River/Stream Gage



## Storm Data and Unusual Weather Phenomena - September 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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The water level at Grottoes on the Middle River passed flood stage of 12 feet. The water crested at 13.81 feet at 3:45 PM, September 23rd.

Fields along the river were to flooded.

**A boundary stalled overhead, causing showers and thunderstorms to develop. The stalled boundary caused persistent convection over central Virginia, which led to flooding.**

**AUGUSTA COUNTY --- 1.1 W JOLIVUE [38.10, -79.10]**

09/26/18 15:43 EST	0	0	0	Thunderstorm Wind (EG 50 kt)
09/26/18 15:43 EST	0	0	0	Source: Emergency Manager

A tree was blown down at the intersection of Old Greenville Road and Cochrans Mill Road.

**CULPEPER COUNTY --- 1.4 N NORMAN [38.54, -78.07]**

09/26/18 16:19 EST	0	0	0	Thunderstorm Wind (EG 50 kt)
09/26/18 16:19 EST	0	0	0	Source: Emergency Manager

A tree was blown down near the intersection of Scotts Mill Road and Stone Bridge Road.

**CULPEPER COUNTY --- 1.8 NE CORDOVA [38.55, -78.01]**

09/26/18 16:35 EST	0	0	0	Thunderstorm Wind (EG 50 kt)
09/26/18 16:35 EST	0	0	0	Source: State Official

A tree was blown down on Dutch Hollow Road near Alum Spring Road. A tree was also blown down on Shiloh Church Road near Ryland Chapel Road.

**PRINCE WILLIAM COUNTY --- 0.7 N ANTIOCH [38.86, -77.68]**

09/26/18 16:36 EST	0	0	0	Thunderstorm Wind (EG 50 kt)
09/26/18 16:36 EST	0	0	0	Source: Emergency Manager

A tree was blown down near the intersection of Mountain Road and Waterfall Road.

**A cold front moving into the region combined with with an unstable hot and humid air mass to generate showers and thunderstorms, some of which became severe.**

**LOUDOUN COUNTY --- 1.3 NW WATERFORD [39.19, -77.62], 1.2 NW WATERFORD [39.19, -77.62], 1.1 NW WATERFORD [39.19, -77.61], 1.2 NW WATERFORD [39.19, -77.62]**

09/27/18 23:41 EST	0	0	0	Flood (due to Heavy Rain)
09/28/18 10:09 EST	0	0	0	Source: River/Stream Gage

The water level surpassed flood stage of 7 feet at Waterford along the Catoclin Creek, cresting at 9.78 feet on September 28th at 4:30 AM. Portions of Route 662 were flooded near the creek.

**LOUDOUN COUNTY --- 0.2 NW TAYLORSTOWN [39.25, -77.58], 0.3 NW TAYLORSTOWN [39.25, -77.58], 0.3 N TAYLORSTOWN [39.25, -77.58], 0.2 N TAYLORSTOWN [39.25, -77.58]**

09/28/18 00:55 EST	0	0	0	Flood (due to Heavy Rain)
09/28/18 05:33 EST	0	0	0	Source: River/Stream Gage

The water level surpassed flood stage of 12 feet, cresting at 12.3 feet at 2:45 AM on September 28th. Downey Mill Road was flooded.

**FAIRFAX COUNTY --- 1.1 NE CENTREVILLE [38.84, -77.40], 1.0 NE CENTREVILLE [38.84, -77.40], 1.0 NE CENTREVILLE [38.84, -77.41], 1.1 NE CENTREVILLE [38.84, -77.41]**

09/28/18 01:00 EST	0	0	0	Flood (due to Heavy Rain)
09/28/18 03:00 EST	0	0	0	Source: 911 Call Center

Route 29 was closed at Clifton Road due to flooding.

**LOUDOUN COUNTY --- 2.1 SSE STUMPTOWN [39.17, -77.54], 2.3 S STUMPTOWN [39.17, -77.54], 2.4 SSE STUMPTOWN [39.17, -77.54], 2.2 SSE STUMPTOWN [39.17, -77.54]**

09/28/18 01:02 EST	0	0	0	Flood (due to Heavy Rain)
09/28/18 01:51 EST	0	0	0	Source: River/Stream Gage

The water level at Limestone Branch surpassed flood stage of 7 feet, cresting at 7.25 feet at 1:20 AM September 28th.

Greenfield Farm Lane and another access road were flooded. Field flooding near the stream was widespread.

## Storm Data and Unusual Weather Phenomena - September 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>ROCKINGHAM COUNTY --- 1.7 SSE MT CRAWFORD [38.35, -78.92], 1.8 SSE MT CRAWFORD [38.34, -78.92], 2.1 SSE MT CRAWFORD [38.34, -78.91], 2.5 SSE MT CRAWFORD [38.34, -78.91], 2.5 SSE MT CRAWFORD [38.34, -78.91], 2.1 SSE MT CRAWFORD [38.34, -78.91], 1.8 SSE MT CRAWFORD [38.35, -78.92]</b>				
	09/28/18 01:25 EST		0	Flood (due to Heavy Rain)
	09/28/18 10:31 EST		0	Source: River/Stream Gage
The USGS stream gage on North River near Burkettown exceeded the 11 foot flood stage during the indicated period. The peak level of 13.29 feet occurred at 5:30am EST.				
<b>AUGUSTA COUNTY --- 1.4 S MT MERIDIAN [38.25, -78.87], 0.8 E MT MERIDIAN [38.27, -78.86], 0.2 NE MT MERIDIAN [38.27, -78.87], 1.5 SSW MT MERIDIAN [38.25, -78.88]</b>				
	09/28/18 01:26 EST		0	Flood (due to Heavy Rain)
	09/29/18 04:34 EST		0	Source: River/Stream Gage
The water level at Grottoes on the Middle River passed flood stage of 12 feet. The water crested at 15.71 feet at 6:30 PM, September 28th.				
Fields along the river were to flooded.				
<b>AUGUSTA COUNTY --- 1.9 S SWOOPE [38.14, -79.20], 1.9 S SWOOPE [38.14, -79.20], 1.9 S SWOOPE [38.14, -79.20], 1.9 S SWOOPE [38.14, -79.20]</b>				
	09/28/18 02:22 EST		0	Flood (due to Heavy Rain)
	09/28/18 04:22 EST		0	Source: 911 Call Center
The 100 Block of Cattleman Road was closed due to flooding.				
<b>AUGUSTA COUNTY --- 1.9 SW FORDWICK [38.05, -79.39], 1.8 SW FORDWICK [38.05, -79.39], 1.9 SW FORDWICK [38.05, -79.39], 1.9 SW FORDWICK [38.05, -79.39]</b>				
	09/28/18 02:23 EST		0	Flood (due to Heavy Rain)
	09/28/18 04:23 EST		0	Source: 911 Call Center
Little River Road at Wallace Mill Road was closed due to flooding.				
<b>AUGUSTA COUNTY --- 1.0 WSW BRAND [38.12, -79.02], 1.0 WSW BRAND [38.12, -79.02], 1.0 WSW BRAND [38.12, -79.02], 1.0 WSW BRAND [38.12, -79.02]</b>				
	09/28/18 02:25 EST		0	Flood (due to Heavy Rain)
	09/28/18 04:25 EST		0	Source: 911 Call Center
Desper Hollow Road was closed at Jefferson Highway due to flooding.				
<b>ROCKINGHAM COUNTY --- 0.9 SW PINEVILLE [38.34, -78.81], 0.9 SW PINEVILLE [38.34, -78.81], 0.9 SW PINEVILLE [38.34, -78.81], 0.8 SSW PINEVILLE [38.34, -78.81]</b>				
	09/28/18 02:29 EST		0	Flood (due to Heavy Rain)
	09/28/18 04:29 EST		0	Source: 911 Call Center
Goods Mill Road was closed at Oak Shade Road due to flooding.				
<b>ROCKINGHAM COUNTY --- 0.9 SW PINEVILLE [38.34, -78.81], 0.9 SW PINEVILLE [38.34, -78.81], 0.9 SW PINEVILLE [38.34, -78.81], 1.0 SW PINEVILLE [38.34, -78.81]</b>				
	09/28/18 02:31 EST		0	Flood (due to Heavy Rain)
	09/28/18 04:31 EST		0	Source: 911 Call Center
Goods Mill Road was closed at Charlie Town Road due to flooding.				
<b>SHENANDOAH COUNTY --- 19.5 S NEW MARKET [38.37, -78.66], 19.5 S NEW MARKET [38.37, -78.66], 19.5 S NEW MARKET [38.37, -78.66], 19.5 S NEW MARKET [38.37, -78.66]</b>				
	09/28/18 02:32 EST		0	Flood (due to Heavy Rain)
	09/28/18 04:32 EST		0	Source: 911 Call Center
Berrytown Road was closed at Little Gap Road due to flooding.				
<b>ROCKINGHAM COUNTY --- 1.0 SSW DALE ENTERPRISE [38.44, -78.94], 1.0 SSW DALE ENTERPRISE [38.44, -78.94], 0.9 SSW DALE ENTERPRISE [38.44, -78.93], 1.0 SSW DALE ENTERPRISE [38.44, -78.93]</b>				

## Storm Data and Unusual Weather Phenomena - September 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	09/28/18 02:33 EST		0	Flood (due to Heavy Rain)
	09/28/18 04:33 EST		0	Source: 911 Call Center

The 1200 Block of Silver Lake Road was closed due to flooding.

**ROCKINGHAM COUNTY --- 1.5 W CLOVER HILL [38.45, -79.06], 1.5 W CLOVER HILL [38.45, -79.06], 1.4 W CLOVER HILL [38.45, -79.06], 1.5 W CLOVER HILL [38.45, -79.06]**

	09/28/18 02:34 EST		0	Flood (due to Heavy Rain)
	09/28/18 04:34 EST		0	Source: 911 Call Center

Daniel Cupp Road was closed at Waggys Creek Road due to flooding.

**SHENANDOAH COUNTY --- 2.3 ENE QUICKSBURG [38.69, -78.64], 2.1 ENE QUICKSBURG [38.69, -78.64], 2.1 E QUICKSBURG [38.68, -78.64], 2.2 E QUICKSBURG [38.68, -78.64]**

	09/28/18 02:45 EST		0	Flood (due to Heavy Rain)
	09/28/18 11:05 EST		0	Source: River/Stream Gage

The water level surpassed the flood stage of 10 feet, cresting at 10.88 feet at 02:15 AM September 28th. Water overflowed the banks downstream of the gauge.

**LOUDOUN COUNTY --- 2.7 E NORTH FORK [39.07, -77.68], 2.6 E NORTH FORK [39.07, -77.68], 2.6 NNE MOUNTVILLE [39.06, -77.68], 2.7 NNE MOUNTVILLE [39.06, -77.67]**

	09/28/18 03:06 EST		0	Flood (due to Heavy Rain)
	09/28/18 17:59 EST		0	Source: River/Stream Gage

The water level surpassed the flood stage of 10 feet, cresting at 10.88 feet at 02:15 AM September 28th. Water overflowed the banks downstream of the gauge.

**PRINCE WILLIAM COUNTY --- 1.6 NNW YORKSHIRE [38.80, -77.44], 1.5 NNW YORKSHIRE [38.80, -77.44], 1.8 NNW YORKSHIRE [38.80, -77.44], 2.0 NNW YORKSHIRE [38.80, -77.45], 1.8 NNW YORKSHIRE [38.80, -77.45]**

	09/28/18 03:06 EST		0	Flood (due to Heavy Rain)
	09/28/18 17:59 EST		0	Source: River/Stream Gage

The water level surpassed the flood stage of 12 feet, cresting at 14.64 feet at 12:13 PM September 28th.

Water covered backyards in the Yorkshire area. Portions of the trail system along Bull Run in the vicinity of Yorkshire were also flooded.

**SHENANDOAH COUNTY --- 1.8 NE WOODSTOCK [38.90, -78.49], 1.8 NE WOODSTOCK [38.90, -78.49], 1.9 NE WOODSTOCK [38.90, -78.49], 1.8 NE WOODSTOCK [38.90, -78.49]**

	09/28/18 03:36 EST		0	Flood (due to Heavy Rain)
	09/28/18 05:36 EST		0	Source: 911 Call Center

The 22000 Block of Route 11 was closed due to flooding.

**FAIRFAX COUNTY --- 0.3 W CLARKS CROSSING [38.92, -77.31], 0.3 W CLARKS CROSSING [38.92, -77.31], 0.2 W CLARKS CROSSING [38.92, -77.30], 0.3 W CLARKS CROSSING [38.92, -77.31]**

	09/28/18 03:58 EST		0	Flood (due to Heavy Rain)
	09/28/18 05:58 EST		0	Source: 911 Call Center

Lawyers Road was closed at Hunters Mill Road due to flooding.

**PRINCE WILLIAM COUNTY --- 0.6 N BRISTOW [38.73, -77.53], 0.5 NNW BRISTOW [38.73, -77.53], 0.4 N BRISTOW [38.73, -77.53], 0.6 N BRISTOW [38.73, -77.53]**

	09/28/18 04:48 EST		0	Flood (due to Heavy Rain)
	09/28/18 06:48 EST		0	Source: Broadcast Media

Traffic reports were received that indicated Piper Lane was closed between Observations Drive and Nokesville Road.

**CULPEPER COUNTY --- 1.6 W RAPIDAN [38.32, -78.10], 3.2 NW RAPIDAN [38.35, -78.11], 1.7 NW RAPIDAN [38.34, -78.09], 0.6 NW RAPIDAN [38.33, -78.08]**

	09/28/18 04:59 EST		0	Flood (due to Heavy Rain)
	09/28/18 07:37 EST		0	Source: River/Stream Gage

## Storm Data and Unusual Weather Phenomena - September 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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The water level at Robinson River surpassed flood stage of 11 feet, cresting at 11.56 feet at 06:15 AM September 28th.

Water covered a portion of Route 721. Agricultural flooding also took place nearby.

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**LOUDOUN COUNTY --- 1.4 S LEESBURG MUNI [39.06, -77.55], 1.4 S LEESBURG MUNI [39.06, -77.55], 1.4 S LEESBURG MUNI [39.06, -77.55], 1.4 S LEESBURG MUNI [39.06, -77.55]**

	09/28/18 05:03 EST	0	Flood (due to Heavy Rain)
	09/28/18 07:03 EST	0	Source: Broadcast Media

Shreve Mill Road was closed near Sycolin Road due to flooding.

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**LOUDOUN COUNTY --- 1.0 SSE PHILOMONT [39.04, -77.72], 1.0 SSE PHILOMONT [39.04, -77.72], 0.9 SSE PHILOMONT [39.04, -77.72], 1.0 SSE PHILOMONT [39.04, -77.72]**

	09/28/18 06:52 EST	0	Flood (due to Heavy Rain)
	09/28/18 08:52 EST	0	Source: Trained Spotter

Snickersville Turnpike was closed due to flooding near Hibbs Bridge Road.

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**LOUDOUN COUNTY --- 1.4 N WATSON [39.02, -77.58], 1.3 N WATSON [39.02, -77.58], 1.0 N WATSON [39.01, -77.58], 1.4 NNE WATSON [39.02, -77.57], 1.5 NNE WATSON [39.02, -77.57]**

	09/28/18 07:54 EST	0	Flood (due to Heavy Rain)
	09/28/18 15:28 EST	0	Source: River/Stream Gage

The water level at Goose Creek surpassed flood stage of 12 feet, cresting at 12.6 feet at 12:30 PM September 28th.

The creek overflowed its banks near Oatlands, south of Leesburg. Backwater flooding begins to affect a low spot on State Route 650, Oatlands Road. Water also reaches the Goose Creek Golf Course.

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**FAUQUIER COUNTY --- 1.6 NNW CALVERTON [38.65, -77.68], 1.6 NNW CALVERTON [38.65, -77.68], 1.7 NNW CALVERTON [38.65, -77.68], 1.6 NNW CALVERTON [38.65, -77.68]**

	09/28/18 08:09 EST	0	Flood (due to Heavy Rain)
	09/28/18 10:09 EST	0	Source: 911 Call Center

Bastable Mill Road was closed near Brookfield Drive due to flooding.

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**PRINCE WILLIAM COUNTY --- 2.6 SSW ADEN [38.62, -77.56], 2.6 SSW ADEN [38.62, -77.55], 2.7 SSW ADEN [38.61, -77.55], 2.8 SSW ADEN [38.61, -77.55]**

	09/28/18 08:30 EST	0	Flood (due to Heavy Rain)
	09/28/18 17:07 EST	0	Source: River/Stream Gage

The stream gage on Cedar Run near Aden exceeded the 10 foot flood stage during the indicated period, flooding Fleetwood Road. The peak level of 10.49 feet occurred at 1:57pm EST.

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**RAPPAHANNOCK COUNTY --- 14.1 SE AMISSVILLE [38.53, -77.81], 14.2 SE AMISSVILLE [38.53, -77.80], 14.3 SE AMISSVILLE [38.53, -77.80], 14.4 SE AMISSVILLE [38.53, -77.81], 14.2 SE AMISSVILLE [38.53, -77.81]**

	09/28/18 12:48 EST	0	Flood (due to Heavy Rain)
	09/28/18 19:22 EST	0	Source: River/Stream Gage

The water level surpassed flood stage of 15 feet and crested at 15.29 feet at 3:45 PM on September 28th.

Tin Pot Run Road and Sumerduck Road near Remington were flooded..

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**PAGE COUNTY --- 0.9 NW LEAKSVILLE [38.64, -78.54], 0.8 WSW LEAKSVILLE [38.63, -78.55], 0.4 WSW LEAKSVILLE [38.63, -78.54], 0.7 NNW LEAKSVILLE [38.64, -78.53]**

	09/28/18 14:45 EST	0	Flood (due to Heavy Rain)
	09/28/18 22:51 EST	0	Source: River/Stream Gage

Water level at the gauge along the South Fork Shenandoah River at Luray surpassed flood stage of 14 feet. The water crested at 14.53 feet at 7:00 PM, September 28th.

Water covered yards and fields near the river southwest of Luray.

**A warm front moved through the area during the early morning hours of the 28th. Warm and moist air associated with a tropical air mass overran the relatively cooler air in place, resulting in heavy rainfall. Also, the steering flow aloft was weak so showers and**

## Storm Data and Unusual Weather Phenomena - September 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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thunderstorms were slow to move. This enhanced the flooding threat. Some of the flooding persisted on larger streams into the 29th.

(VA-Z025) AUGUSTA, (VA-Z026) ROCKINGHAM, (VA-Z027) SHENANDOAH, (VA-Z028) FREDERICK, (VA-Z029) PAGE, (VA-Z030) WARREN, (VA-Z031) CLARKE, (VA-Z037) ALBEMARLE, (VA-Z038) GREENE, (VA-Z039) MADISON, (VA-Z040) RAPPAHANNOCK, (VA-Z050) ORANGE, (VA-Z051) CULPEPER, (VA-Z501) NORTHERN FAUQUIER, (VA-Z502) SOUTHERN FAUQUIER, (VA-Z503) WESTERN HIGHLAND, (VA-Z504) EASTERN HIGHLAND, (VA-Z507) NORTHERN VIRGINIA BLUE RIDGE, (VA-Z508) CENTRAL VIRGINIA BLUE RIDGE

09/29/18 00:15 EST	0	0	Dense Fog
09/29/18 08:55 EST	0	0	

A combination of clear skies, abundant low level moisture, and light winds led to the formation of fog, some of which became dense with visibility less than a quarter of a mile.

### WEST VIRGINIA, East

HARDY COUNTY --- 0.5 W ARKANSAS [39.07, -78.74], 0.7 W ARKANSAS [39.07, -78.74], 0.5 WSW ARKANSAS [39.07, -78.74], 0.2 NW ARKANSAS [39.07, -78.73]

09/01/18 13:55 EST	0	0	Flood (due to Heavy Rain)
09/01/18 15:55 EST	0	0	Source: 911 Call Center

Low Arkansaw Road was closed due to high water going into Baker.

HARDY COUNTY --- 3.3 WSW NEEDMORE [39.04, -78.84], 3.3 WSW NEEDMORE [39.03, -78.84], 3.3 WSW NEEDMORE [39.03, -78.84], 3.3 WSW NEEDMORE [39.04, -78.84]

09/01/18 13:55 EST	0	0	Flood (due to Heavy Rain)
09/01/18 15:55 EST	0	0	Source: State Official

The 1000 Block of Caldwell Hollow Road was closed due to high water.

A boundary remain stalled over the region and tropical moisture was in place. This caused locally heavy rainfall which led to a couple instances of flooding.

(WV-Z055) HARDY, (WV-Z505) WESTERN PENDLETON, (WV-Z506) EASTERN PENDLETON

09/02/18 02:15 EST	0	0	Dense Fog
09/02/18 09:15 EST	0	0	

A combination of recent rainfall, abundant low level moisture, and light winds led to the formation of fog, some of which became dense with visibility less than a quarter of a mile.

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

09/04/18 11:00 EST	0	0	Heat
09/04/18 18:00 EST	0	0	

Ridging at the surface and aloft led to hot and humid conditions.

MINERAL COUNTY --- 4.4 SW SHORT GAP [39.50, -78.87]

09/06/18 15:35 EST	0	0	Thunderstorm Wind (EG 50 kt)
09/06/18 15:35 EST	0	0	Source: State Official

Three large trees were blown down, including one into a barn, near the 4400 block of Knobley Road in Short Gap.

GRANT COUNTY --- 3.6 NNE WILLIAMSPORT [39.25, -79.01]

09/06/18 16:30 EST	0	0	Thunderstorm Wind (EG 50 kt)
09/06/18 16:30 EST	0	0	Source: State Official

A few trees were blown down on Patterson Creek Road near the Mineral County line.

High amounts of instability and an approaching cold front combined to produce scattered showers and thunderstorms during the afternoon and evening, some of which became severe.

MINERAL COUNTY --- 1.7 ESE LIMESTONE [39.42, -78.94], 2.5 E LIMESTONE [39.42, -78.92], 3.0 E LIMESTONE [39.43, -78.91], 2.4 E LIMESTONE [39.43, -78.93], 1.6 E LIMESTONE [39.43, -78.94]

## Storm Data and Unusual Weather Phenomena - September 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	09/07/18 17:55 EST		0	Flood (due to Heavy Rain)
	09/07/18 19:55 EST		0	Source: 911 Call Center

Two spots on Headsville Road were blocked by high water between Keyser and Headsville.

**MINERAL COUNTY --- 2.4 NNE NEW CREEK [39.40, -79.01], 2.4 SSW KEYSER [39.40, -79.00], 2.4 SW KEYSER [39.40, -79.01], 2.4 NNE NEW CREEK [39.40, -79.01]**

	09/07/18 19:35 EST		0	Flood (due to Heavy Rain)
	09/07/18 21:35 EST		0	Source: Trained Spotter

High water blocked US-220 New Creek Highway near Walmart.

A boundary remain stalled over the region and tropical moisture was in place. This caused locally heavy rainfall. The steering flow aloft was weak so showers and storms moved slowly, which led to instances of flooding.

**JEFFERSON COUNTY --- 0.7 N SHEPHERDSTOWN [39.44, -77.80], 0.7 NNW SHEPHERDSTOWN [39.44, -77.80], 0.1 NE SHEPHERDSTOWN [39.43, -77.80], 1.6 NNE MOLER XRDS [39.42, -77.75], 2.2 NNE MOLER XRDS [39.43, -77.76]**

	09/09/18 04:00 EST		0	Flood (due to Heavy Rain)
	09/12/18 05:57 EST		0	Source: River/Stream Gage

The water level along the Potomac at Shepherdstown surpassed the flood stage of 15 feet, cresting at 21.79 feet on September 11th at 6:15 AM.

Water approached homes on the West Virginia side of the river near Shepherdstown, and impacts were also observed on the Maryland side, not just to the C&O Canal towpath, but also to roads and structures. Water covered the pedestrian bridge adjacent to the Shepherdstown boat ramp. Significant portions of the C&O Canal towpath were flooded. Water flowed over the banks of the Potomac near the mouth of the Opequon River. River Road was completely flooded in low spots between Shepherdstown and Harpers Ferry. Significant portions of the C&O Canal towpath are flooded between McMahons Mill and Dam Number Four.

**MORGAN COUNTY --- 0.1 N OAKLAND [39.48, -78.25], 0.0 SSE OAKLAND [39.48, -78.25], 0.1 E OAKLAND [39.48, -78.25], 0.2 NNE OAKLAND [39.48, -78.25]**

	09/09/18 12:02 EST		0	Flood (due to Heavy Rain)
	09/09/18 14:02 EST		0	Source: 911 Call Center

A vehicle was stuck in high water in the 2900 Block of Virginia Line Road.

**MORGAN COUNTY --- 2.4 NNW HOLTON [39.63, -78.09], 1.9 NW HOLTON [39.62, -78.09], 1.9 NNW HOLTON [39.62, -78.09], 2.4 NNW HOLTON [39.63, -78.09]**

	09/09/18 13:00 EST		0	Flood (due to Heavy Rain)
	09/09/18 15:00 EST		0	Source: 911 Call Center

A vehicle was stuck in high water in the 8900 Block of Martinsburg Road.

**BERKELEY COUNTY --- 1.4 N MARTINSBURG [39.47, -77.97], 1.4 N MARTINSBURG [39.47, -77.97], 1.5 N MARTINSBURG [39.47, -77.97], 1.4 N MARTINSBURG [39.47, -77.97]**

	09/09/18 14:53 EST		0	Flood (due to Heavy Rain)
	09/09/18 20:00 EST		0	Source: River/Stream Gage

The level along the Tuscarora Creek surpassed flood stage of 5.5 feet, cresting at 5.68 feet on September 9th at 4:00 PM.

Widespread overflow of the banks of the creek occurred. Water reached the north parking lot of War Memorial Park.

**MORGAN COUNTY --- BERKELEY SPGS [39.63, -78.23], 1.6 SW BERKELEY SPGS [39.61, -78.25], 1.8 S BERKELEY SPGS [39.60, -78.22], 1.3 NW RIDERSVILLE [39.63, -78.20]**

	09/09/18 15:55 EST		0	Flood (due to Heavy Rain)
	09/09/18 17:55 EST		0	Source: 911 Call Center

Around a half a dozen road closures were reported throughout the county due to high water.

**BERKELEY COUNTY --- 3.0 SE RIDGEWAY [39.27, -78.03], 0.8 NNE BEDINGTON [39.53, -77.90], 1.4 E BEDINGTON [39.52, -77.87], 5.5 SSE TARICO HGTS [39.26, -77.96]**

	09/09/18 16:30 EST		0	Flood (due to Heavy Rain)
	09/11/18 01:15 EST		0	Source: River/Stream Gage

## Storm Data and Unusual Weather Phenomena - September 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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The level along the Opequon Creek surpassed the flood stage of 10 feet, cresting at 12.89 feet at 5:30 AM September 10th.

The creek was well out of its banks with lowlands nearby flooded. Golf Course Road /County Road 36/ was flooded near the Van Metre Ford Pedestrian Bridge. Fields and backyards near the creek were flooded. Several other roads were flooded, including Grapevine Road, Douglas Grove Road, and Paynes Ford Road. Backwater flooding was occurring on small tributaries, including Tuscarora Creek.

Water begins covered backyards of homes on Bowers Road (County Road 1/1). Douglas Grove Road (County Road 9/16) was flooded and impassible. Water also moved onto Golf Course Road (County Road 36) and Grapevine Road (County Road 9/14).

Floodwaters covered Douglas Grove Road (County Road 9/16) east of Martinsburg. A portion of Bowers Road was also flooded. Low lying areas near the creek were flooded. Water also covered the stream access point at the Van Metre Ford Pedestrian Bridge.

**MORGAN COUNTY --- 37.0 E PATTERSON CREEK [39.51, -78.04], 37.1 E PATTERSON CREEK [39.51, -78.04], 37.4 E PATTERSON CREEK [39.51, -78.03], 37.2 E PATTERSON CREEK [39.51, -78.04]**

09/09/18 17:51 EST	0	Flood (due to Heavy Rain)
09/10/18 15:31 EST	0	Source: River/Stream Gage

The level at Jones Springs reached flood stage of 11 feet. Dry Run Road was flooded and water approached Daisy Lane.

**MORGAN COUNTY --- 37.0 E PATTERSON CREEK [39.51, -78.04], 37.1 E PATTERSON CREEK [39.51, -78.04], 37.4 E PATTERSON CREEK [39.51, -78.03], 37.2 E PATTERSON CREEK [39.51, -78.04]**

09/09/18 17:51 EST	0	Flood (due to Heavy Rain)
09/10/18 15:31 EST	0	Source: River/Stream Gage

The level at Jones Springs reached flood surpassed the flood stage of 11 feet, and crested at 13.32 feet at 6:00 AM September 10th. Dry Run Road was flooded and water approached Daisy Lane.

**MORGAN COUNTY --- 3.5 NW ROCK GAP [39.57, -78.32], 3.5 SSW GREAT CACAPON [39.58, -78.31], 3.1 SSW GREAT CACAPON [39.58, -78.31], 2.9 SSW GREAT CACAPON [39.58, -78.31], 3.2 S WOODMONT [39.58, -78.32], 3.4 S WOODMONT [39.58, -78.32]**

09/10/18 05:52 EST	0	Flood (due to Heavy Rain)
09/10/18 19:07 EST	0	Source: River/Stream Gage

The water level along the Cacapon River at Great Cacapon surpassed flood stage of 9 feet. The water crested at 9.33 feet on September 10th at 10:00 AM EST. Rock Ford Road begins to flood in multiple locations, including flowing completely over the low water bridge. Constant Run Road also begins to flood.

**JEFFERSON COUNTY --- 1.8 WNW ALDRIDGE [39.33, -77.95], 0.2 NE LEETOWN [39.35, -77.93], 0.8 NNW LEETOWN [39.36, -77.93], 1.9 WSW LEETOWN [39.34, -77.96]**

09/10/18 10:05 EST	0	Flood (due to Heavy Rain)
09/10/18 12:05 EST	0	Source: 911 Call Center

Parts of Leetown Road were closed due to flooding.

**JEFFERSON COUNTY --- 0.7 N UVILLA [39.38, -77.80], 1.7 S SHEPHERDSTOWN [39.41, -77.80], 1.9 SSW SHEPHERDSTOWN [39.41, -77.82], 0.9 NW UVILLA [39.38, -77.81]**

09/10/18 10:13 EST	0	Flood (due to Heavy Rain)
09/10/18 12:13 EST	0	Source: 911 Call Center

Parts of Sheppardstown Pike were closed due to flooding.

**BERKELEY COUNTY --- 0.5 E BEDINGTON [39.52, -77.89], 0.5 ESE BEDINGTON [39.52, -77.89], 0.8 ESE BEDINGTON [39.52, -77.89], 0.7 E BEDINGTON [39.52, -77.89]**

09/10/18 11:30 EST	0	Flood (due to Heavy Rain)
09/10/18 13:30 EST	0	Source: 911 Call Center

Scrabble Road was closed at the Opequon Bridge due to flooding.

**BERKELEY COUNTY --- 0.5 W BERKELEY [39.50, -77.94], 0.7 WSW BERKELEY [39.50, -77.94], 0.6 WSW BERKELEY [39.50, -77.94], 0.4 W BERKELEY [39.50, -77.94]**

09/10/18 11:30 EST	0	Flood (due to Heavy Rain)
09/10/18 13:30 EST	0	Source: 911 Call Center

Parts of Williamsport Pike were closed due to flooding near Berkeley Station Road.

## Storm Data and Unusual Weather Phenomena - September 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>BERKELEY COUNTY --- 0.8 NNE RIDGEWAY [39.31, -78.07], 0.5 NNE RIDGEWAY [39.31, -78.07], 0.5 N RIDGEWAY [39.31, -78.07], 0.8 N RIDGEWAY [39.31, -78.07]</b>				
	09/10/18 11:30 EST		0	Flood (due to Heavy Rain)
	09/10/18 13:30 EST		0	Source: 911 Call Center
Montmorency Drive was closed due to high water near Winchester Avenue.				
<b>BERKELEY COUNTY --- 0.9 NE BERKELEY [39.51, -77.92], 0.2 NNW BERKELEY [39.50, -77.93], 0.1 ENE BERKELEY [39.50, -77.93], 1.0 SSW BEDINGTON [39.51, -77.91]</b>				
	09/10/18 11:30 EST		0	Flood (due to Heavy Rain)
	09/10/18 13:30 EST		0	Source: 911 Call Center
Parts of Berkeley Station Road were closed near the Railroad Crossing due to flooding.				
<b>BERKELEY COUNTY --- 0.9 SW INWOOD [39.34, -78.06], 0.9 SW INWOOD [39.34, -78.06], 1.0 NW BUNKER HILL [39.34, -78.06], 0.9 NW BUNKER HILL [39.34, -78.06]</b>				
	09/10/18 11:30 EST		0	Flood (due to Heavy Rain)
	09/10/18 13:30 EST		0	Source: 911 Call Center
Henshaw Road was closed due to flooding at the I-81 underpass.				
<b>BERKELEY COUNTY --- 1.3 NE JOHNSTOWN [39.59, -78.02], 1.1 NE JOHNSTOWN [39.59, -78.01], 1.3 NE JOHNSTOWN [39.59, -78.01], 1.4 NE JOHNSTOWN [39.59, -78.01]</b>				
	09/10/18 11:30 EST		0	Flood (due to Heavy Rain)
	09/10/18 13:30 EST		0	Source: 911 Call Center
The 3700 Block of Allensville Road was closed due to flooding.				
<b>BERKELEY COUNTY --- 1.4 NNE MARTINSBURG [39.47, -77.96], 1.5 NNE MARTINSBURG [39.47, -77.96], 1.4 NNE MARTINSBURG [39.47, -77.96], 1.4 NNE MARTINSBURG [39.47, -77.96]</b>				
	09/10/18 11:30 EST		0	Flood (due to Heavy Rain)
	09/10/18 13:30 EST		0	Source: 911 Call Center
Rothwell Avenue was closed due to flooding.				
<b>BERKELEY COUNTY --- 2.2 WSW VANCELEVESVILLE [39.42, -77.94], 2.0 SSW BLAIRTON [39.42, -77.94], 2.0 WSW VANCELEVESVILLE [39.42, -77.94], 2.0 WSW VANCELEVESVILLE [39.42, -77.94]</b>				
	09/10/18 11:30 EST		0	Flood (due to Heavy Rain)
	09/10/18 13:30 EST		0	Source: 911 Call Center
Parts of Douglas Grove Road were closed due to flooding.				
<b>BERKELEY COUNTY --- 2.4 WSW JOHNSTOWN [39.57, -78.07], 1.8 SW JOHNSTOWN [39.56, -78.06], 2.0 SW JOHNSTOWN [39.56, -78.06], 2.5 WSW JOHNSTOWN [39.57, -78.08]</b>				
	09/10/18 11:30 EST		0	Flood (due to Heavy Rain)
	09/10/18 13:30 EST		0	Source: 911 Call Center
Parts of Kesecker Road were closed due to flooding near Baxter Road and Providence Church Road was closed near Kesecker Road.				
<b>BERKELEY COUNTY --- SPRING MILLS [39.55, -77.95], 0.3 WNW SPRING MILLS [39.55, -77.96], 0.4 WSW SPRING MILLS [39.55, -77.96], 0.2 SW SPRING MILLS [39.55, -77.95]</b>				
	09/10/18 11:30 EST		0	Flood (due to Heavy Rain)
	09/10/18 13:30 EST		0	Source: 911 Call Center
Harlan Springs Road was closed due to flooding at Ropp Drive.				
<b>Heavy rain fell to the north of a stalled front on September 9th and 10th. One to three inches of rain fell across the eastern West Virginia Panhandle late on the 8th into the 9th, followed by another one to three inches on the 9th into the 10th. This combination produced fairly widespread flooding, including of the mainstem rivers, which continued through the 11th and into the 12th.</b>				
<b>JEFFERSON COUNTY --- 0.6 ENE MEYERSTOWN [39.20, -77.86], 2.0 ESE MEYERSTOWN [39.19, -77.84], 0.9 ESE MILLVILLE [39.29, -77.76], 0.5 NNW MILLVILLE [39.31, -77.78]</b>				



## Storm Data and Unusual Weather Phenomena - September 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	09/18/18 16:54 EST		0	Flood (due to Heavy Rain)
	09/20/18 00:35 EST		0	Source: River/Stream Gage

The water level along the Shenandoah River at Milleville surpassed the flood stage of 10 feet, cresting at 13.5 feet on September 19th at 5:15 AM.

Water reached the river access at Wagon Trail Place near Harpers Ferry, and completely covered the parking lot of the lower boat ramp at Millville Dam. Portions of the Cool Spring Battlefield were also flooded.

A small portion of Wilt Road (County Road 9/8) was flooded. Water also flowed over Millville Dam.

Parts of Bloomery Road and John Rissler Road were flooded near Bloomery, West Virginia. Once these roads flood, access to homes is impaired. Moulton Park and the Millville boat launch were also flooded.

**Heavy rain from the remnants of Florence caused flooding along the Shenandoah River.**

**(WV-Z055) HARDY, (WV-Z502) EASTERN GRANT**

09/20/18 01:35 EST	0	Dense Fog
09/20/18 08:15 EST	0	

**A combination of clear skies, abundant low level moisture, and light winds led to the formation of fog, some of which became dense with visibility less than a quarter of a mile.**

**JEFFERSON COUNTY --- 0.6 NNW SHEPHERDSTOWN [39.44, -77.80], 0.1 NE SHEPHERDSTOWN [39.43, -77.80], 1.1 ESE SHEPHERDSTOWN [39.43, -77.78], 1.3 E SHEPHERDSTOWN [39.43, -77.78]**

09/26/18 11:15 EST	0	Flood (due to Heavy Rain)
09/27/18 02:04 EST	0	Source: River/Stream Gage

The water level along the Potomac at Shepherdstown surpassed the flood stage of 15 feet, cresting at 15.59 feet on September 26th at 3:45 PM

River Road was completely flooded in low spots between Shepherdstown and Harpers Ferry. Significant portions of the C&O Canal towpath are flooded between McMahons Mill and Dam Number Four.

**MINERAL COUNTY --- 1.4 NNW KEYSER [39.45, -78.99], 1.5 NNW KEYSER [39.45, -78.99], 1.5 NNW KEYSER [39.45, -78.99], 1.4 NNW KEYSER [39.45, -78.99]**

09/28/18 02:01 EST	0	Flood (due to Heavy Rain)
09/28/18 04:01 EST	0	Source: 911 Call Center

Carrol Avenue was closed at Villa Street due to high water.

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

09/28/18 02:02 EST	0	Flood (due to Heavy Rain)
09/28/18 04:02 EST	0	Source: 911 Call Center

Patterson Creek Road was closed at Headsville Road due to high water.

**MINERAL COUNTY --- 2.1 W FT ASHBY [39.50, -78.81], 2.1 W FT ASHBY [39.50, -78.81], 2.1 W FT ASHBY [39.50, -78.81], 2.1 W FT ASHBY [39.50, -78.81]**

09/28/18 02:06 EST	0	Flood (due to Heavy Rain)
09/28/18 04:06 EST	0	Source: 911 Call Center

Georges Run Road was closed at the 2100 block due to flooding.

**BERKELEY COUNTY --- 0.5 SW BLAIRTON [39.45, -77.93], 0.5 SW BLAIRTON [39.44, -77.93], 0.6 SW BLAIRTON [39.44, -77.93], 0.5 SW BLAIRTON [39.44, -77.93]**

09/28/18 03:31 EST	0	Flood (due to Heavy Rain)
09/28/18 05:31 EST	0	Source: 911 Call Center

The 1500 block of Golf Course Road was closed due to flooding.

**BERKELEY COUNTY --- 0.6 WSW BERKELEY [39.50, -77.94], 0.6 WSW BERKELEY [39.50, -77.94], 0.6 WSW BERKELEY [39.50, -77.94], 0.6 WSW BERKELEY [39.50, -77.94]**

## Storm Data and Unusual Weather Phenomena - September 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	09/28/18 03:32 EST		0	Flood (due to Heavy Rain)
	09/28/18 05:32 EST		0	Source: 911 Call Center

Berkeley Station Road was closed at Williamsport Pike due to flooding.

**MORGAN COUNTY --- 3.4 NW ROCK GAP [39.57, -78.32], 3.6 NW ROCK GAP [39.57, -78.32], 3.6 NNE LARGENT [39.53, -78.36], 2.9 WSW LARGENT [39.46, -78.43], 5.1 SSW LARGENT [39.41, -78.42], 4.5 S LARGENT [39.42, -78.37], 2.1 W ROCK GAP [39.53, -78.32]**

	09/28/18 07:43 EST		0	Flood (due to Heavy Rain)
	09/29/18 03:21 EST		0	Source: River/Stream Gage

The water level along the Cacapon River at Great Cacapon surpassed flood stage of 9 feet. The water crested at 11.44 feet on September 28th at 3:45 PM EST. Rock Ford Road begins to flood in multiple locations, including flowing completely over the low water bridge. Constant Run Road also begins to flood. Running Waters Way flooded along with Kilgore Road.

**JEFFERSON COUNTY --- 0.6 ENE MEYERSTOWN [39.20, -77.86], 2.0 ESE MEYERSTOWN [39.19, -77.83], 0.9 ESE MILLVILLE [39.29, -77.76], 0.5 NNW MILLVILLE [39.31, -77.78]**

	09/28/18 09:05 EST		0	Flood (due to Heavy Rain)
	09/28/18 11:27 EST		0	Source: River/Stream Gage

The water level along the Shenandoah River at Millville surpassed the flood stage of 10 feet, cresting at 12.98 feet on September 29th at 11:15 AM.

Water reached the river access at Wagon Trail Place near Harpers Ferry, and completely covered the parking lot of the lower boat ramp at Millville Dam. Portions of the Cool Spring Battlefield were also flooded.

A small portion of Wilt Road (County Road 9/8) was flooded. Water also flowed over Millville Dam.

Parts of Bloomery Road and John Rissler Road were flooded near Bloomery, West Virginia. Once these roads flood, access to homes is impaired. Moulton Park and the Millville boat launch were also flooded.

**JEFFERSON COUNTY --- 0.6 NNW SHEPHERDSTOWN [39.44, -77.80], 0.1 NE SHEPHERDSTOWN [39.43, -77.80], 1.1 ESE SHEPHERDSTOWN [39.43, -77.78], 1.3 E SHEPHERDSTOWN [39.43, -77.78]**

	09/28/18 10:47 EST		0	Flood (due to Heavy Rain)
	09/30/18 06:33 EST		0	Source: River/Stream Gage

The water level along the Potomac at Shepherdstown surpassed the flood stage of 15 feet, cresting at 21.79 feet on September 29th at 3:45 AM.

Water approached homes on the West Virginia side of the river near Shepherdstown, and impacts were also observed on the Maryland side, not just to the C&O Canal towpath, but also to roads and structures. Water covered the pedestrian bridge adjacent to the Shepherdstown boat ramp. Significant portions of the C&O Canal towpath were flooded. Water flowed over the banks of the Potomac near the mouth of the Opequon River. River Road was completely flooded in low spots between Shepherdstown and Harpers Ferry. Significant portions of the C&O Canal towpath are flooded between McMahons Mill and Dam Number Four.

**HAMPSHIRE COUNTY --- 1.7 ENE MILLESONS MILL [39.44, -78.65], 1.8 NE MILLESONS MILL [39.45, -78.65], 2.0 NW POINTS [39.45, -78.65], 1.5 WNW POINTS [39.44, -78.65]**

	09/28/18 12:02 EST		0	Flood (due to Heavy Rain)
	09/29/18 00:20 EST		0	Source: River/Stream Gage

The water level at Springfield surpassed flood stage of 15 feet, cresting at 15.93 feet at 6:30 PM, September 28th.

Milleson Mill Road (County Route 28/5) and Clarence Taylor Road (Route 3/7) were flooded. Water covered a significant portion of meadowlands near the river. The boat launch ramp on the upstream right abutment of the bridge also flooded.

**MORGAN COUNTY --- 6.4 SSE HOLTON [39.51, -78.04], 6.6 SSE HOLTON [39.51, -78.03], 6.3 SSE HOLTON [39.51, -78.03], 6.2 SSE HOLTON [39.51, -78.04]**

	09/28/18 12:52 EST		0	Flood (due to Heavy Rain)
	09/28/18 17:43 EST		0	Source: River/Stream Gage

The river level at Jones Springs along the Back Creek surpassed the flood stage of 11 feet, cresting at 11.28 feet at 4:00 PM September 28th. Dry Run Road was flooded and water approached Daisy Lane.

**JEFFERSON COUNTY --- 0.7 S HARPERS FERRY [39.32, -77.73], 0.4 S HARPERS FERRY [39.32, -77.73], 0.3 SW HARPERS FERRY [39.33, -77.73], 0.7 SSW HARPERS FERRY [39.32, -77.74]**

## Storm Data and Unusual Weather Phenomena - September 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	09/29/18 04:12 EST		0	Flood (due to Heavy Rain)
	09/29/18 14:11 EST		0	Source: River/Stream Gage

The water level at Harpers Ferry along the Potomac surpassed the flood stage of 18 feet, cresting at 18.33 feet at 9:20 AM EST September 29th.

Due to backwater effects on the Shenandoah River, floodwaters covered much of the Hamilton Street area of historic Harpers Ferry, and approached the employee parking lot.

**A warm front moved through the area during the morning hours of the 28th. Warm and moist air associated with a tropical air mass overran the relatively cooler air in place, resulting in heavy rainfall. Also, the steering flow aloft was weak so showers and thunderstorms were slow to move. This enhanced the flooding threat.**

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**(WV-Z050) HAMPSHIRE, (WV-Z055) HARDY, (WV-Z501) WESTERN GRANT, (WV-Z502) EASTERN GRANT, (WV-Z503) WESTERN MINERAL, (WV-Z504) EASTERN MINERAL, (WV-Z505) WESTERN PENDLETON, (WV-Z506) EASTERN PENDLETON**

09/29/18 01:15 EST	0	Dense Fog
09/29/18 07:55 EST	0	

**A combination of clear skies, abundant low level moisture, and light winds led to the formation of fog, some of which became dense with visibility less than a quarter of a mile.**