Date/Time Location Deaths & Property & **Event Type and Details** Injuries Crop Dmg ATLANTIC NORTH TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- LONG BRANCH ES (ARLNL) [38.87, -77.09] 11/02/18 20:14 EST Marine Thunderstorm Wind (EG 34 kt) 11/02/18 20:25 EST 0 Source: Mesonet A wind gust of up to 34 knots was observed in Arlington, VA. TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- (DCA)REAGAN NATIONAL AIRPORT [38.86, -77.03] 11/02/18 20:17 EST 0 Marine Thunderstorm Wind (EG 34 kt) 0 11/02/18 20:17 EST Source: ASOS A wind gust of up to 34 knots was observed at Washington National Airport (KDCA). TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- NATIONALS PARK (WSHNP) [38.87, -77.01] 11/02/18 20:19 FST Marine Thunderstorm Wind (MG 37 kt) 11/02/18 20:19 EST 0 Source: Mesonet A wind gust of 37 knots was measured at Nationals Park. PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- BALTIMORE KEY BRIDGE (FSKM2) [39.22, -76.53] 11/02/18 20:48 EST Marine Thunderstorm Wind (MG 35 kt) 11/02/18 20:54 EST 0 Source: Mesonet A wind gust of 35 knots was measured at the Francis Scott Key Bridge. CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- THOMAS POINT (TPLM2) [38.90, -76.44] 11/02/18 21:00 EST Marine Thunderstorm Wind (MG 38 kt) 11/02/18 22:00 EST 0 Source: Buoy A wind gust of 38 knots was measured at Thomas Point. CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- HART MILLER ISLAND (HRT) [39.25, -76.37] 11/02/18 21:07 EST Marine Thunderstorm Wind (MG 37 kt) 11/02/18 21:12 EST 0 Source: Mesonet A wind gust of 37 knots was measured at Hart Miller Island. CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- GREENBERRY POINT (GBY) [38.97, -76.46] 11/02/18 21:09 EST Marine Thunderstorm Wind (EG 34 kt) 11/02/18 21:09 EST 0 Source: Buoy A wind gust of up to 34 knots was observed at Greenbury Point. TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- BABAR POINT (BAB) [38.31, -77.03] 11/02/18 21:12 EST 0 Marine Thunderstorm Wind (EG 34 kt) 0 11/02/18 21:12 EST Source: Mesonet A wind gust of up to 34 knots was observed at Babar Point. TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 1.3 WSW POTOMAC LIGHT 33 (LT3) [38.33, -77.01] 11/02/18 21:18 EST Marine Thunderstorm Wind (EG 34 kt) 11/02/18 21:24 EST 0 Source: Mesonet A wind gust of up to 34 knots was observed at Dahlgren. TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 1.4 NW POTOMAC LIGHT 33 (LT3) [38.35, -77.01] Marine Thunderstorm Wind (EG 34 kt) 11/02/18 21:18 FST

A wind gust of up to 34 knots was observed at Pylons.

11/02/18 21:23 EST

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Source: Mesonet

0

	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
FIDAL POTOMAC COBB IS MD TO SMITH		COB) [38.24, -76.8	33]	
	11/02/18 21:19 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	11/02/18 21:54 EST		0	Source: Buoy
A wind gust of 36 knots was measured at C	Cobb Point.			
HESAPEAKE BAY POOLES IS TO SAND		R (GUN) [39.36, -	76.37]	
	11/02/18 21:24 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	11/02/18 21:24 EST		0	Source: Mesonet
wind gust of up to 34 knots was observed	d at Gunpowder.			
CHESAPEAKE BAY POOLES IS TO SAND		R MD (TCBM2) [3	9.32, -76.25]	
	11/02/18 21:24 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	11/02/18 21:24 EST		0	Source: Mesonet
A wind gust of up to 34 knots was observed	d at Tolchester.			
TIDAL POTOMAC INDIAN HD TO COBB IS		Γ 33 (LT3) [38.34,	-76.99]	
	11/02/18 21:26 EST		0	Marine Thunderstorm Wind (MG 38 kt)
	11/02/18 21:31 EST		0	Source: Mesonet
A wind gust of 38 knots was measured at F	Potomac Light.			
PATAPSCO RIVER INCLUDING BALTIMO	ORE HARBOR COUNTY ORIOLE	PARK AT CAMDE	N YARDS (BLTPC	2) [39.28, -76.62]
	11/02/18 21:30 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	11/02/18 21:30 EST		0	Source: Mesonet
A wind gust of 34 knots was measured at C		(TOL) [38.94, -76.	44] 0 0	Marine Thunderstorm Wind (MG 41 kt) Source: Buoy
A wind gust of 41 knots was measured at T	Γolly Point.			
TIDAL POTOMAC INDIAN HD TO COBB IS	S MD COUNTY CUCKOLD CREE	K (CCK) [38.31, -7	6.93]	
	11/02/18 21:45 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	11/02/18 21:45 EST		0	Source: Mesonet
A wind gust of up to 34 knots was observed	d at Cuckold Creek.			
		′ (HRB) [38.73, -76	6.54]	
CHESAPEAKE BAY SANDY PT TO N BEA			0	Marine Thunderstorm Wind (MG 42 kt)
HESAPEAKE BAY SANDY PT TO N BEA	11/02/18 21:46 EST			· · · · ·
CHESAPEAKE BAY SANDY PT TO N BEA	11/02/18 21:46 EST 11/02/18 21:51 EST		0	Source: Buoy
	11/02/18 21:51 EST			· · · · ·
A wind gust of 42 knots was measured at F	11/02/18 21:51 EST Herring Bay.	[38.47, -76.38]		Source: Buoy
wind gust of 42 knots was measured at F	11/02/18 21:51 EST Herring Bay. PT MD COUNTY MID BAY BUOY 11/02/18 22:12 EST	⁷ [38.47, -76.38]	0	Source: Buoy Marine Thunderstorm Wind (EG 34 kt)
wind gust of 42 knots was measured at F	11/02/18 21:51 EST Herring Bay. PT MD COUNTY MID BAY BUOY	[38.47, -76.38]	0	Source: Buoy
A wind gust of 42 knots was measured at F	11/02/18 21:51 EST Herring Bay. PT MD COUNTY MID BAY BUOY 11/02/18 22:12 EST 11/02/18 22:12 EST	7 [38.47, -76.38]	0	Source: Buoy Marine Thunderstorm Wind (EG 34 kt)
CHESAPEAKE BAY SANDY PT TO N BEACH WIND GUST OF 42 knots was measured at FCHESAPEAKE BAY N BEACH TO DRUM A wind gust of up to 34 knots was observed. CHESAPEAKE BAY N BEACH TO DRUM	11/02/18 21:51 EST Herring Bay. PT MD COUNTY MID BAY BUOY 11/02/18 22:12 EST 11/02/18 22:12 EST d at Cove Point.		0 0	Marine Thunderstorm Wind (EG 34 kt) Source: Buoy
A wind gust of 42 knots was measured at H CHESAPEAKE BAY N BEACH TO DRUM A wind gust of up to 34 knots was observed	11/02/18 21:51 EST Herring Bay. PT MD COUNTY MID BAY BUOY 11/02/18 22:12 EST 11/02/18 22:12 EST d at Cove Point.		0 0	Marine Thunderstorm Wind (EG 34 kt) Source: Buoy

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CHOPTANK RIVER TO CAMBRIDGE MD AND THE LITTLE CHOPTANK RIVER COUNTY --- BLACKWALNUT HARBOR (BWH) [38.68, -76.33]

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	11/02/18 22:18 EST 11/02/18 22:18 EST		0 0	Marine Thunderstorm Wind (EG 34 kt) Source: Buoy
wind gust of up to 34 knots was observ	ved at Blackwalnut Harbor.			
A dynamic low pressure system tracked he cold front, and while instability was quasi-linear convective system. This pr	limited, deep and low level shear w	ere strong enough		
CHESAPEAKE BAY SANDY PT TO N BE	EACH MD COUNTY GREENBERR 11/06/18 09:59 EST	Y POINT (GBY) [38	3. 97 , - 76.46]	Marine Thunderstorm Wind (EG 34 kt)
wind guet of up to 24 knote was absorbed	11/06/18 09:59 EST		0	Source: Buoy
wind gust of up to 34 knots was observ	ed at Greenbury Point.			
CHESAPEAKE BAY POOLES IS TO SAN	11/06/18 11:06 EST	ER MD (TCBM2) [3	0	Marine Thunderstorm Wind (EG 34 kt)
A wind gust of up to 34 knots was observ	11/06/18 11:06 EST ved at Tolchester.		0	Source: Buoy
CHESAPEAKE BAY SANDY PT TO N BE	EACH MD COUNTY KENT ISLAND	/KNT\ [29 02 76	361	
MILOAFEANE DAT SANUT PT TO N BE	11/06/18 11:42 EST	, (MII) [30.82, -/6	. 36] 0	Marine Thunderstorm Wind (EG 34 kt)
	11/06/18 11:42 EST		0	Source: Buoy
A wind gust of up to 34 knots was observ	ved at Kent Island.			
TIDAL POTOMAC INDIAN HD TO COBB	IS MD COUNTY BABAR POINT (I	BAB) [38.31, -77.03	3]	Marine Thunderstorm Wind (EG 34 kt)
	11/06/18 11:42 EST		0	Source: Buoy
CHESAPEAKE BAY SANDY PT TO N BE	EACH MD COUNTY THOMAS POII 11/06/18 12:00 EST 11/06/18 12:00 EST	NT (TPLM2) [38.90	, -76.44] 0 0	Marine Thunderstorm Wind (MG 40 kt) Source: Buoy
A wind gust of 40 knots was measured at	t Thomas Point.			·
Mild and moist air with limited instabilit amounts of wind shear to create a squa	all line that moved across the waters	, producing gusty	winds.	Marine Thunderstorm Wind (EG 34 kt) Source: Buoy
A wind gust of up to 34 knots was observ	ved at Cuckold Creek.			ŕ
TIDAL POTOMAC COBB IS MD TO SMIT	TH PT VA COUNTY COBB POINT 11/24/18 17:04 EST	(COB) [38.24, -76.8	33] 0	Marine Thunderstorm Wind (MG 43 kt)
	11/24/18 17:29 EST		0	Source: Buoy
A wind gust of 43 knots was measured at	t Cobb Point.			
TIDAL POTOMAC COBB IS MD TO SMIT		(PPTM2) [38.13, -7	=	Morino Thunderst Win-1/MO (010)
	11/24/18 17:06 EST 11/24/18 17:36 EST		0	Marine Thunderstorm Wind (MG 40 kt) Source: Buoy
A wind gust of 40 knots was measured at			-	•
TIDAL POTOMAC COBB IS MD TO SMIT	TH PT VA COUNTY LEWISETTA (I	_WS) [38.00, -76.4	7]	
	11/24/18 17:24 EST	,	0	Marine Thunderstorm Wind (EG 34 kt)
	11/24/18 17:30 EST		0	Source: Buoy

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ocation	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
wind gust of up to 34 knots was observe	ed near Lewisetta.			
TIDAL POTOMAC COBB IS MD TO SMIT	H PT VA COUNTY LEWISETTA M	ID (LWTV2) [38.00	-76.47]	
	11/24/18 17:24 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	11/24/18 17:30 EST		0	Source: Buoy
A wind gust of up to 34 knots was observe	ed at Lewisetta.			
CHESAPEAKE BAY DRUM PT TO SMITH	PT VA COUNTY PATUXENT RIV	/ER ASOS (KNAK)	[38.29, -76.41]	
	11/24/18 17:37 EST		0	Marine Thunderstorm Wind (MG 39 kt)
	11/24/18 17:54 EST		0	Source: ASOS
A wind gust of 39 knots was measured at	Patuxent River (KNHK).			
ANGIER SOUND AND THE INLAND WA	TERS SURROUNDING BLOODSWC	ORTH ISLAND COL	INTY CRISFIEL	D CG (CRS) [37.97, -75.88]
	11/24/18 17:40 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	11/24/18 18:50 EST		0	Source: Buoy
A wind gust of 34 knots was measured at	Crisfield.			
TIDAL DOTOMAC CORD IS MD TO SMIT	U DT VA COUNTY DOTOMAC DO	NAT LOOKOUT BL	IOV (44042) [20 02	2 70 241
TIDAL POTOMAC COBB IS MD TO SMIT	11/24/18 17:40 EST	JINT LOOKOUT BU	0 (44042)	Marine Thunderstorm Wind (MG 39 kt)
	11/24/18 17:50 EST		0	Source: ASOS
A wind gust of 39 knots was measured at	Potomac Point Lookout.			
CHESAPEAKE BAY N BEACH TO DRUM		Y [38.47, -76.38]		M : TI / / /// // // // // // // // // // //
	11/24/18 18:30 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	11/24/18 19:12 EST		0	Source: Buoy
A wind gust of 34 knots was measured at	Cove Point.			
ANGIER SOUND AND THE INLAND WA		ORTH ISLAND COL		
	11/24/18 18:54 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	11/24/18 18:54 EST		0	Source: Buoy
A wind gust of up to 34 knots was observe	ed at Raccoon Point.			
A low pressure system moved up the ea across the waters during the late day ho shear to produce gusty showers.				
· - ·				

DISTRICT OF COLUMBIA

DC-Z001) DISTRICT OF COLUMBIA				
,	11/10/18 22:00 EST	0	Frost/Freeze	
	11/11/18 09:00 EST	0		
High pressure, clear skies, and light wi		9.		
(DC-Z001) DISTRICT OF COLUMBIA	11/15/18 05:00 EST	0	Winter Weather	

An area of low pressure developed across the southeastern United States on the night of November 14th, and tracked northeastward along the North and South Carolina coastlines during the daytime hours on the 15th, strengthening to around 995mb on the night of the 15th as it continued moving northward through the Delmarva to New Jersey by the morning of the 16th. Further strengthening to around 985 mb occurred on the 16th as the system sped up and moved towards Nova Scotia. Widespread precipitation was brought to the region, including snow, sleet, and rain across the District.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
		=	REED [38.97, -77	.04], 0.5 WSW WALTER REED [38.98,
-77.04], 0.7 WSW WALTER REED [38.	98, -77.04], 1.3 SW WALTER REED [38 11/24/18 18:44 EST	5.97, -77.05]	0	Flood (due to Heavy Rain)
	11/25/18 01:16 EST		0	Source: River/Stream Gage
	n DC exceeded the 7 foot flood stage duk K Creek Park. The peak level of 7.37 fe	-		hed several portions of the Valley Trail
low pressure formed along the Caroli	d the area on the 24th as surface low ina Coast. Lift ahead of the negatively heavy rain through much of the day o stances of flooding.	tilted trough/withi	n the left exit regi	on of an upper-level jet
(DC-Z001) DISTRICT OF COLUMBIA				
	11/26/18 21:09 EST		0	Coastal Flood
	11/26/18 22:39 EST		0	
Southerly onshore flow ahead of a st portions of the upper tidal Potomac.	rong low pressure system led to incre	eased tidal anomal	ies and moderate	coastal flooding across
portions of the upper tidal Potomac.		eased tidal anomal	ies and moderate	coastal flooding across
portions of the upper tidal Potomac. MARYLAND, Central	rong low pressure system led to incre	eased tidal anomal	ies and moderate	coastal flooding across
portions of the upper tidal Potomac. MARYLAND, Central	rong low pressure system led to incre	eased tidal anomal	ies and moderate	coastal flooding across Thunderstorm Wind (EG 61 kt)
portions of the upper tidal Potomac. MARYLAND, Central	rong low pressure system led to incre	eased tidal anomal		
portions of the upper tidal Potomac. MARYLAND, Central HOWARD COUNTY 1.6 W LONG C	ORNER [39.33, -77.18]		0 0	Thunderstorm Wind (EG 61 kt) Source: Emergency Manager
MARYLAND, Central HOWARD COUNTY 1.6 W LONG Country and gazebo were damaged at L	ORNER [39.33, -77.18] 11/02/18 19:18 EST 11/02/18 19:18 EST	were also down nea	0 0 ar the 19000 block	Thunderstorm Wind (EG 61 kt) Source: Emergency Manager
MARYLAND, Central HOWARD COUNTY 1.6 W LONG Country and gazebo were damaged at L	ORNER [39.33, -77.18] 11/02/18 19:18 EST 11/02/18 19:18 EST	were also down nea	0 0 ar the 19000 block	Thunderstorm Wind (EG 61 kt) Source: Emergency Manager
MARYLAND, Central HOWARD COUNTY 1.6 W LONG Country and gazebo were damaged at L	ORNER [39.33, -77.18] 11/02/18 19:18 EST 11/02/18 19:18 EST .u and Joe's Restaurant. Multiple trees	were also down nea	0 0 ar the 19000 block	Thunderstorm Wind (EG 61 kt) Source: Emergency Manager of Windsor Forest Road.
MARYLAND, Central HOWARD COUNTY 1.6 W LONG Country and gazebo were damaged at L HOWARD COUNTY 1.7 NW LONG Country	ORNER [39.33, -77.18] 11/02/18 19:18 EST 11/02/18 19:18 EST .u and Joe's Restaurant. Multiple trees CORNER [39.35, -77.17], 1.8 NNW LOR 11/02/18 19:19 EST 11/02/18 19:20 EST orthwestern Howard County, Maryland, poles were snapped along Penn Shop	were also down nea	0 0 ar the 19000 block 6, -77.16] 0 0	Thunderstorm Wind (EG 61 kt) Source: Emergency Manager of Windsor Forest Road. Tornado (EF1, L: 0.59 mi , W: 200 yd)
MARYLAND, Central HOWARD COUNTY 1.6 W LONG Country 1.7 NW LONG Countr	ORNER [39.33, -77.18] 11/02/18 19:18 EST 11/02/18 19:18 EST .u and Joe's Restaurant. Multiple trees CORNER [39.35, -77.17], 1.8 NNW LOR 11/02/18 19:19 EST 11/02/18 19:20 EST orthwestern Howard County, Maryland, poles were snapped along Penn Shop roll County. LIRY [39.35, -77.17], 1.9 SSE COVER [3	were also down nea NG CORNER [39.35 approximately 1 mi Road just east of M	0 0 ar the 19000 block 5, -77.16] 0 0 e south of Interstal D-27/Ridge Road,	Thunderstorm Wind (EG 61 kt) Source: Emergency Manager of Windsor Forest Road. Tornado (EF1, L: 0.59 mi , W: 200 yd) Source: NWS Storm Survey Ite 70/US-40/Baltimore National Pike at indicative of winds over 100 MPH. The
MARYLAND, Central HOWARD COUNTY 1.6 W LONG Country 1.7 NW LONG Countr	ORNER [39.33, -77.18] 11/02/18 19:18 EST 11/02/18 19:18 EST .u and Joe's Restaurant. Multiple trees CORNER [39.35, -77.17], 1.8 NNW LOR 11/02/18 19:19 EST 11/02/18 19:20 EST orthwestern Howard County, Maryland, poles were snapped along Penn Shop roll County.	were also down nea NG CORNER [39.35 approximately 1 mi Road just east of M	0 0 ar the 19000 block 6, -77.16] 0 0	Thunderstorm Wind (EG 61 kt) Source: Emergency Manager of Windsor Forest Road. Tornado (EF1, L: 0.59 mi , W: 200 yd) Source: NWS Storm Survey tte 70/US-40/Baltimore National Pike at

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Location	Date/Time	Deaths &	Property &	Event Type and Details
		Injurios	Crop Dmg	

A tornado moved northeastward from Howard County and entered Carroll County around 8:20 PM EDT on the evening of November 2nd. Several trees were downed along Bennett Road. Numerous trees were downed in the Pheasant Ridge community just south of MD-144/Frederick Road, and several mobile homes were heavily damaged. Several power poles were snapped along MD-144/Frederick Road.

As the tornado crossed Interstate 70/US-40/Baltimore National Pike, numerous trees and branches were downed in the roadway and on vehicles, which appeared to have been pulled off the roadway by the winds. No injuries were reported.

The tornado proceeded to move into the retail area of Mt. Airy, where a canopy over the gas pumps at High's Dairy Store was partially torn off, and the TJ Maxx roof was lifted up and partially removed. There were also numerous trees snapped and uprooted in a convergent manner behind the shopping center to near the Mt. Airy water tower. In the immediate path, virtually no trees were left undamaged, indicative of winds over 100 MPH.

The tornado continued northward from this point, where several outbuildings at the Knills Farm Market just east of MD-27/Ridge Road were severely damaged or completely destroyed, including a metal silo which twisted and collapsed. Nearby along Watersville Road, several more power poles were snapped purely from wind (not from trees falling on power lines). On either side of the farm, virtually all trees in the tornado's path were downed in a convergent manner, including at a residence along Watersville Road, with some showing signs of bark being stripped by the wind. This was one area where maximum winds are estimated to have been near 120 mph.

The tornado continued northeastward, with several residences experiencing shingle and roof damage/removal along Arrowwood Circle, and downed numerous trees and power lines, consistent with winds around 90 MPH.

Numerous hardwood trees, virtually all in the tornado's path, were snapped with signs of stripped bark along the 6000 block of Runkles Road. At Snell's Greenhouses, water was completely removed from a pond, and several greenhouses were destroyed. A nearby home weather station in the tornado's path just to the northeast measured a wind gust of 112 mph. Based on this, it is likely the tornado's maximum winds again approached 120 mph in this area. This occurred at around 825 PM EDT, when the FAA's Terminal Doppler Weather Radar near Washington Dulles International Airport showed it's strongest rotational signature.

The last evidence of tornadic damage was observed on Gillis Falls Road where a few trees were uprooted in convergent fashion just east of Runkles Road. Radar imagery from the FAA's Terminal Doppler Weather Radar near Washington Dulles International Airport showed the tornadic velocity couplet dissipate just north of Gillis Ford Road at about 826 PM EDT.

The damage estimate was provided by Carroll County Emergency Management.

CARROLL COUNTY 0.4 NNE SHILOH	H [39.61, -76.88]			
	11/02/18 19:42 EST	0	Thunderstorm Wind (MG 62 kt)	
	11/02/18 19:42 EST	0	Source: Trained Spotter	
A trained spotter reported a measured 7	1 mph (62 knot) gust.			
HOWARD COUNTY 1.1 W HIGHLAND	D [39.18, -76.99]			
	11/02/18 19:54 EST	0	Thunderstorm Wind (EG 50 kt)	
	11/02/18 19:54 EST	0	Source: Emergency Manager	
Hollow Road.		don onaron redución de la	s also blown down in the 7000 block of Mink	
		usir sharsh read. A ties no	S also blown down in the 7000 block of Millik	
		0	Thunderstorm Wind (EG 50 kt)	
Hollow Road. HOWARD COUNTY 0.7 S MARRIOTS	SVILLE [39.34, -76.90]			
HOWARD COUNTY 0.7 S MARRIOTS	SVILLE [39.34, -76.90] 11/02/18 20:04 EST	0 0	Thunderstorm Wind (EG 50 kt)	
HOWARD COUNTY 0.7 S MARRIOTS A large tree was blown down across the	SVILLE [39.34, -76.90] 11/02/18 20:04 EST 11/02/18 20:04 EST	0 0 Road.	Thunderstorm Wind (EG 50 kt) Source: Emergency Manager	
HOWARD COUNTY 0.7 S MARRIOTS A large tree was blown down across the	SVILLE [39.34, -76.90] 11/02/18 20:04 EST 11/02/18 20:04 EST road near the 1200 block of Marriottsville	0 0 Road.	Thunderstorm Wind (EG 50 kt) Source: Emergency Manager	

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Location	Date/Time	Deaths &	Property &	Event Type and Details
		Iniuries	Crop Dma	

A tornado touched down in Baltimore City at about 9:42 PM EDT on Friday evening, November 2, 2018. Initial damage was to a tractor trailer which was blown over on Interstate 95 just north of the Fort McHenry Tunnel. A few trees were topped just west of the interstate, and a fence line blew over on South Newkirk Street just to the east. This damage is consistent with winds of about 70 MPH.

The tornado tracked generally eastward roughly parallel to Holabird Avenue. It blew in large garage doors on both side of the building at Flexi-Van Leasing facility, consistent with wind speeds over 90 MPH.

As it continued eastward, it impacted the north building of the Amazon sorting facility, reaching a peak intensity of around 105 MPH. It blew the roof off a portion of the building, including iron rafters. With the loss of the roof, the eight inch concrete wall panels pushed in and collapsed into the building towards the north end of the west wall. Two fatalities occurred inside the building with the wall collapse. About a dozen truck trailers were pushed over, moved, or rolled by the wind. Two of the trailers were noted to have been blown in an opposite direction of the wind that toppled the wall. Several light stanchions and signs were blown over, and several car windows were blown out by flying debris. Radar data from the FAA's Terminal Doppler Weather Radar near Baltimore-Washington International Thurgood Marshall Airport indicated this was around 9:43 PM EDT, and this is when the strongest velocity signature was noted

The tornado continued east along the south side of Holabird Avenue, uprooting several large trees, and snapping dozens of large branches, consistent with winds of about 80 MPH.

Damage along the entire path was mainly convergent, and while much of the damage was from west-southwest to east-northeast, there were several notable exceptions of damage in differing directions. An eyewitness fire fighter outside the Baltimore City Fire Department Engine 50 firehouse in the area saw the swirling debris and funnel cloud as it passed. The tornado lifted as it reached the intersection with Dundalk Avenue, which according to radar would have been at about 9:44 PM EDT.

Direct Fatalities: M54PS, M37PS

CHARLES COUNTY --- 0.9 SW SPRINGHILL [38.49, -76.99]

11/02/18 21:21 EST

11/02/18 21:21 EST

BALTIMORE COUNTY 0.1 NNW ST HELEN	A [39.27	76.531.	0.7 ENE DUNDALK	[39.27	-76.511
DALIMONE COCKET C.T. MINT CT TIELEN	~ [UU.Z/	, -, 0.00],	O.7 EILE DONDALK	[00.27	, -, 0.0 1

 11/02/18 20:44 EST
 15K
 Tornado (EF1, L: 1.22 mi , W: 150 yd)

 11/02/18 20:45 EST
 1
 0
 Source: NWS Storm Survey

A tornado tracked eastward from Baltimore City into southern Baltimore County near the city of Dundalk, around 9:44 PM EDT. After it initially lifted, the tornado briefly touched down one last time at the Holabird East Apartments on 4 Georges Court in Dundalk. The northeast building in the complex was unroofed entirely, and the building was uninhabitable displacing 42 people. The strong southwest wind hit the building broadside and lifted the roof off the building. No other damage was noted in the area. Lifting of the entire roof is consistent with wind speeds near 100 MPH. A resident reported swirling winds with the event. One resident in the building was treated for cuts. This was the last area of damage, and the tornado signature on radar weakened after this point just after 9:45 PM EDT. The monetary damage is an estimate provided by the county emergency management office.

HARFORD COUNTY 1.1 W SCARF	F [39.53, -76.45]			
	11/02/18 20:48 EST	0	Thunderstorm Wind (EG 50 kt)	
	11/02/18 20:48 EST	0	Source: State Official	
Trees were blown down on Pleasantvi	ille Road.			
HARFORD COUNTY 0.5 W GIBSO	N [39.58, -76.34]			
	11/02/18 21:03 EST	0	Thunderstorm Wind (EG 50 kt)	
	11/02/18 21:03 EST	0	Source: State Official	
Trees and wires were blown down alo	ng Conowingo Road.			
CHARLES COUNTY 1.6 WSW NEV	VBURG CLIFFTON ARP [38.36, -77.00]			
	11/02/18 21:06 EST	0	Thunderstorm Wind (EG 50 kt)	
	11/02/18 21:06 EST	0	Source: 911 Call Center	
A tractor trailer truck partially overturn	ed on the US-301 Harry Nice Bridge.			
CHARLES COUNTY 0.8 ESE POPE	ES CREEK [38.39, -76.97]			
	11/02/18 21:20 EST	0	Thunderstorm Wind (EG 50 kt)	
	11/02/18 21:20 EST	0	Source: NWS Storm Survey	

0

0

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Source: State Official

Thunderstorm Wind (EG 50 kt)

A tree was blown down near the intersection o	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	of Preference Drive and US-301	Crain Highway.		
CHARLES COUNTY 0.7 S ALLENS FRESH	H [38.41, -76.95]			
	11/02/18 21:25 EST		0	Thunderstorm Wind (EG 50 kt)
	11/02/18 21:25 EST		0	Source: NWS Storm Survey
Straight line winds caused minor damage to the Several trees were also downed along Glasva	-	=	_	-
A dynamic low pressure system tracked thr the cold front, and while instability was limit	•	•		
quasi-linear convective system. The most ir tornadoes.	ntense portions of the system w	ere able to genera	ite localized sever	re damaging winds and
CARROLL COUNTY 1.3 NNW KEYMAR [3 77.24]	9.62, -77.24], 1.2 NNW KEYMAR	R [39.62, -77.24], 1.	1 NNW KEYMAR [39.61, -77.24], 1.3 NW KEYMAR [39.62,
	11/02/18 21:05 EST		0	Flood (due to Heavy Rain)
	11/03/18 00:57 EST		0	Source: River/Stream Gage
The stream gage on the Big Pipe Creek in Brupeak level of 9.54 feet was observed at 23:15		d stage during the i	ndicated period, flo	ooding Keysville-Bruceville Road. The
A dynamic low pressure system tracked thr stratiform precipitation in the late afternoon	=	=	· ·	ducing a period of
MD-Z011) SOUTHERN BALTIMORE, (MD-Z0	013) PRINCE GEORGES, (MD-Z0	14) ANNE ARUND	EL, (MD-Z016) CH	IARLES, (MD-Z017) ST. MARY'S,
MD-Z018) CALVERT, (MD-Z507) NORTHWE	• •	HEAST HARFORD		F==+1/F=====
	11/10/18 22:00 EST		0	Frost/Freeze
	11/11/18 09:00 EST		0	
High pressure, clear skies, and light winds I	led to temperatures that fell belo	ow freezing.		
(MD-Z003) WASHINGTON, (MD-Z004) FREDE ALLEGANY, (MD-Z502) CENTRAL AND EAS				
(MD-Z507) NORTHWEST HARFORD				
	11/15/18 05:00 EST		0	Winter Storm
	11/16/18 00:00 EST		0	
	013) PRINCE GEORGES. (MD-Z0	014) ANNE ARUND	EL, (MD-Z504) CE	INTRAL AND SOUTHEAST
(MD-Z011) SOUTHERN BALTIMORE, (MD-Z0				
	• •		0	146
	11/15/18 05:00 EST		U	Winter Weather
(MD-Z011) SOUTHERN BALTIMORE, (MD-Z0 MONTGOMERY, (MD-Z506) CENTRAL AND	11/15/18 05:00 EST 11/15/18 15:00 EST		0	winter weather
MONTGOMERY, (MD-Z506) CENTRAL AND :	11/15/18 15:00 EST	on the niaht of No		
MONTGOMERY, (MD-Z506) CENTRAL AND S An area of low pressure developed across t	11/15/18 15:00 EST he southeastern United States of	=	vember 14th, and	tracked northeastward
	11/15/18 15:00 EST he southeastern United States ones during the daytime hours or	the 15th, strengt	vember 14th, and hening to around	tracked northeastward 995mb on the night of the
MONTGOMERY, (MD-Z506) CENTRAL AND S An area of low pressure developed across t along the North and South Carolina coastlin 15th as it continued moving northward thro	11/15/18 15:00 EST he southeastern United States of the daytime hours or ugh the Delmarva to New Jerse	n the 15th, strengt y by the morning	vember 14th, and hening to around s of the 16th. Furthe	tracked northeastward 995mb on the night of the er strengthening to around
MONTGOMERY, (MD-Z506) CENTRAL AND S An area of low pressure developed across t along the North and South Carolina coastlin 15th as it continued moving northward thro 185 mb occurred on the 16th as the system	11/15/18 15:00 EST he southeastern United States of the daytime hours or the ugh the Delmarva to New Jerse sped up and moved towards No	n the 15th, strengt y by the morning ova Scotia. Wides	vember 14th, and hening to around s of the 16th. Furthe pread precipitation	tracked northeastward 995mb on the night of the er strengthening to around n was brought to the
MONTGOMERY, (MD-Z506) CENTRAL AND and area of low pressure developed across to along the North and South Carolina coastling 15th as it continued moving northward through the system to be sometimes on the 16th as the system to be sometimes on the 16th as the system to be sometimes on the 16th as the system to be sometimes on the 16th as the system to be sometimes on the 16th as the system to be sometimes of the system to be system. The system to be sometimes of the system to be system to be system. The system to be syst	11/15/18 15:00 EST he southeastern United States of the daytime hours of the Delmarva to New Jerse sped up and moved towards Note in the I-95	n the 15th, strengt y by the morning ova Scotia. Wides	vember 14th, and hening to around s of the 16th. Furthe pread precipitation	tracked northeastward 995mb on the night of the er strengthening to around n was brought to the
MONTGOMERY, (MD-Z506) CENTRAL AND and area of low pressure developed across to along the North and South Carolina coastling 15th as it continued moving northward through the system to be sometimes on the 16th as the system to be sometimes on the 16th as the system to be sometimes on the 16th as the system to be sometimes on the 16th as the system to be sometimes on the 16th as the system to be sometimes of the system to be system. The system to be sometimes of the system to be system to be system. The system to be syst	11/15/18 15:00 EST he southeastern United States of the daytime hours of the Delmarva to New Jerse sped up and moved towards Note in the I-95	n the 15th, strengt y by the morning o ova Scotia. Wides	vember 14th, and hening to around s of the 16th. Furthe pread precipitation	tracked northeastward 995mb on the night of the er strengthening to around n was brought to the
MONTGOMERY, (MD-Z506) CENTRAL AND and area of low pressure developed across to along the North and South Carolina coastling 15th as it continued moving northward through the system to be sometimes on the 16th as the system to be sometimes on the 16th as the system to be sometimes on the 16th as the system to be sometimes on the 16th as the system to be sometimes on the 16th as the system to be sometimes of the system to be system. The system to be sometimes of the system to be system to be system. The system to be syst	he southeastern United States on the southeastern United States on the during the daytime hours or ugh the Delmarva to New Jerse sped up and moved towards Not ecipitation northwest of the I-95	n the 15th, strengt y by the morning o ova Scotia. Wides	vember 14th, and hening to around to of the 16th. Furthe oread precipitation nly rain in southe	tracked northeastward 995mb on the night of the er strengthening to around n was brought to the rn Maryland.
MONTGOMERY, (MD-Z506) CENTRAL AND a An area of low pressure developed across to along the North and South Carolina coastling 15th as it continued moving northward through the soccurred on the 16th as the system region, including heavy snow and mixed prompts.	he southeastern United States on the southeastern United States on the during the daytime hours or the United States of the Delmarva to New Jerse sped up and moved towards Not the I-95 ERICK 11/24/18 07:00 EST 11/24/18 13:00 EST	n the 15th, strengt y by the morning ova Scotia. Wides i corridor, and mai	vember 14th, and hening to around to of the 16th. Furthe oread precipitation nly rain in souther 0 0	tracked northeastward 995mb on the night of the er strengthening to around n was brought to the rn Maryland.
MONTGOMERY, (MD-Z506) CENTRAL AND S An area of low pressure developed across t along the North and South Carolina coastlin	he southeastern United States on the southeastern United States on the during the daytime hours or the United States of the Delmarva to New Jerse sped up and moved towards Not the I-95 ERICK 11/24/18 07:00 EST 11/24/18 13:00 EST	n the 15th, strengt y by the morning ova Scotia. Wides i corridor, and mai	vember 14th, and hening to around to of the 16th. Furthe oread precipitation nly rain in souther 0 0	tracked northeastward 995mb on the night of the er strengthening to around n was brought to the rn Maryland.

moving northeastward through the Delmarva to off the coast of New Jersey by the morning of the 25th. The system then began weakening on the 25th as it moved out into the western Atlantic Ocean. Widespread rain was brought to the region, along with a period of freezing rain and ice accumulations along and west of the Blue Ridge/Catoctin Mountains.

An area of low pressure developed along the Gulf Coast on the night of November 23rd, and tracked northeastward to the North and South Carolina coastlines during the daytime hours on the 24th, strengthening to around 990mb on the night of the 24th as it continued

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	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MONTGOMERY COUNTY 1.9 N DARI	NESTOWN [39.13, -77.30], 2.0 N DAR!	NESTOWN [39.13,	-77.30], 1.9 N DAF	RNESTOWN [39.13, -77.29], 1.8 N
DARNESTOWN [39.13, -77.30]	11/24/18 18:38 EST		0	Flood (due to Heavy Rain)
	11/25/18 04:14 EST		0	Source: River/Stream Gage
The stream gage on the Seneca Creek a Greenway, as well as a small portion of E			-	I, leading to flooding of the Seneca Creek t 7:55 PM on the 25th.
CARROLL COUNTY 1.3 NNW KEYMA	AR [39.62, -77.24], 1.2 NNW KEYMAR	[39.62, -77.24], 1.1	NNW KEYMAR [39.61, -77.24], 1.3 NNW KEYMAR
[39.62, -77.24]	11/24/18 18:56 EST		0	Flood (due to Heavy Rain)
	11/24/18 23:36 EST		0	Source: River/Stream Gage
The stream gage on the Big Pipe Creek and Road. The peak level of 9.06 feet occurre		stage during the in	ndicated period, lea	ading to flooding on Keysville-Bruceville
	=).7 NW ROCK CRE	EK FOREST [38.9	99, -77.06], 0.7 NW ROCK CREEK FOREST
[38.99, -77.06], 0.7 WNW ROCK CREEK	FOREST [38.99, -77.06] 11/24/18 19:12 EST		0	Flood (due to Heavy Rain)
	11/24/18 19:12 EST		0	Source: Fire Department/Rescue
	1 1/27/ 10 21.12 LOT		•	234,00. File Department Nosout
Nater rescue required of people strande	d by floodwaters in the Meadowbrook	Park Community C	Center.	
MONTGOMERY COUNTY 0.8 SW BR	IGHTON [39.19, -77.04], 0.7 SW BRIG	HTON [39.19, -77.	04], 0.7 SW BRIGH	HTON [39.19, -77.04], 0.8 SW
BRIGHTON [39.19, -77.04]	11/24/18 19:36 EST		0	Flood (due to Heavy Rain)
	11/24/18 21:36 EST		0	Source: Fire Department/Rescue
Car stranded in floodwaters on Brighton	Dam Road at the Hawlings River.			
MONTGOMERY COUNTY 0.8 NW RO (38.99, -77.06], 0.7 WNW ROCK CREEK	CK CREEK FOREST [38.99, -77.06], 0		=	- -
MONTGOMERY COUNTY 0.8 NW RO (38.99, -77.06], 0.7 WNW ROCK CREEK	CK CREEK FOREST [38.99, -77.06], 0		=	, 0.6 N ROCK CREEK FOREST [38.99,
MONTGOMERY COUNTY 0.8 NW RO 38.99, -77.06], 0.7 WNW ROCK CREEK	CK CREEK FOREST [38.99, -77.06], 0 FOREST [38.98, -77.06], 0.5 NNW RO		ST [38.99, -77.05],	- -
MONTGOMERY COUNTY 0.8 NW RO [38.99, -77.06], 0.7 WNW ROCK CREEK -77.05]	CK CREEK FOREST [38.99, -77.06], 0 FOREST [38.98, -77.06], 0.5 NNW RO 11/24/18 20:32 EST 11/24/18 22:32 EST	CK CREEK FORE	ST [38.99 , -77. 05] ,	, 0.6 N ROCK CREEK FOREST [38.99, Flood (due to Heavy Rain)
MONTGOMERY COUNTY 0.8 NW RO [38.99, -77.06], 0.7 WNW ROCK CREEK -77.05] Beach Drive closed from East West High	CK CREEK FOREST [38.99, -77.06], 0 FOREST [38.98, -77.06], 0.5 NNW RO 11/24/18 20:32 EST 11/24/18 22:32 EST way to the DC line due to flooding of F	CK CREEK FORE Rock Creek. E [39.54, -76.64], 0	ST [38.99, -77.05], 0 0	Flood (due to Heavy Rain) Source: Fire Department/Rescue
Car stranded in floodwaters on Brighton MONTGOMERY COUNTY 0.8 NW RO [38.99, -77.06], 0.7 WNW ROCK CREEK -77.05] Beach Drive closed from East West High BALTIMORE COUNTY 0.2 SW GLENG [39.54, -76.64], 0.8 WSW GLENCOE [39.	CK CREEK FOREST [38.99, -77.06], 0 FOREST [38.98, -77.06], 0.5 NNW RO 11/24/18 20:32 EST 11/24/18 22:32 EST way to the DC line due to flooding of F COE [39.55, -76.63], 0.7 SW GLENCOI 54, -76.64], 0.4 W GLENCOE [39.55, -	CK CREEK FORE Rock Creek. E [39.54, -76.64], 0	ST [38.99, -77.05], 0 0 0 0 0.9 SSW GLENCOR ENCOE [39.56, -76	Flood (due to Heavy Rain) Source: Fire Department/Rescue E [39.54, -76.64], 0.8 NE SPARKS 6.64], 0.7 NW GLENCOE [39.56, -76.64]
MONTGOMERY COUNTY 0.8 NW RO [38.99, -77.06], 0.7 WNW ROCK CREEK -77.05] Beach Drive closed from East West High	CK CREEK FOREST [38.99, -77.06], 0 FOREST [38.98, -77.06], 0.5 NNW RO 11/24/18 20:32 EST 11/24/18 22:32 EST way to the DC line due to flooding of R COE [39.55, -76.63], 0.7 SW GLENCOI 54, -76.64], 0.4 W GLENCOE [39.55, -11/24/18 20:36 EST 11/25/18 05:42 EST Glencoe exceeded the flood stage of pad, Sparks Road and Home Road. Ad	CK CREEK FORE Rock Creek. E [39.54, -76.64], 076.64], 0.8 NW GL	ST [38.99, -77.05], 0 0 0 0 0.9 SSW GLENCOI ENCOE [39.56, -76 0 0 dicated time period	Flood (due to Heavy Rain) Source: Fire Department/Rescue E [39.54, -76.64], 0.8 NE SPARKS 6.64], 0.7 NW GLENCOE [39.56, -76.64] Flood (due to Heavy Rain) Source: River/Stream Gage d, leading to flooding on portions of
MONTGOMERY COUNTY 0.8 NW RO [38.99, -77.06], 0.7 WNW ROCK CREEK -77.05] Beach Drive closed from East West High BALTIMORE COUNTY 0.2 SW GLENC [39.54, -76.64], 0.8 WSW GLENCOE [39. The stream gage on Gunpowder Falls at Upper Glencoe Road, Lower Glencoe Ro	CK CREEK FOREST [38.99, -77.06], 0 FOREST [38.98, -77.06], 0.5 NNW RO 11/24/18 20:32 EST 11/24/18 22:32 EST way to the DC line due to flooding of R COE [39.55, -76.63], 0.7 SW GLENCOI 54, -76.64], 0.4 W GLENCOE [39.55, -11/24/18 20:36 EST 11/25/18 05:42 EST Glencoe exceeded the flood stage of pad, Sparks Road and Home Road. Add e 25th.	CK CREEK FORE Rock Creek. E [39.54, -76.64], 0 76.64], 0.8 NW GL	ST [38.99, -77.05], 0 0 0 0 0 0 0 0 0 0 0 dicated time perior	Flood (due to Heavy Rain) Source: Fire Department/Rescue E [39.54, -76.64], 0.8 NE SPARKS 6.64], 0.7 NW GLENCOE [39.56, -76.64] Flood (due to Heavy Rain) Source: River/Stream Gage d, leading to flooding on portions of ings off of Sparks Road. The peak level
MONTGOMERY COUNTY 0.8 NW RO [38.99, -77.06], 0.7 WNW ROCK CREEK [77.05] Beach Drive closed from East West High BALTIMORE COUNTY 0.2 SW GLENC [39.54, -76.64], 0.8 WSW GLENCOE [39.6] The stream gage on Gunpowder Falls at Upper Glencoe Road, Lower Glencoe Ro [5] 10.74 feet occurred at 12:15 AM on the FREDERICK COUNTY 1.0 NE UTICA	CK CREEK FOREST [38.99, -77.06], 0 FOREST [38.98, -77.06], 0.5 NNW RO 11/24/18 20:32 EST 11/24/18 22:32 EST way to the DC line due to flooding of R COE [39.55, -76.63], 0.7 SW GLENCOI 54, -76.64], 0.4 W GLENCOE [39.55, -11/24/18 20:36 EST 11/25/18 05:42 EST Glencoe exceeded the flood stage of pad, Sparks Road and Home Road. Add e 25th.	CK CREEK FORE Rock Creek. E [39.54, -76.64], 0 76.64], 0.8 NW GL	ST [38.99, -77.05], 0 0 0 0 0 0 0 0 0 0 0 dicated time perior	Flood (due to Heavy Rain) Source: Fire Department/Rescue E [39.54, -76.64], 0.8 NE SPARKS 6.64], 0.7 NW GLENCOE [39.56, -76.64] Flood (due to Heavy Rain) Source: River/Stream Gage d, leading to flooding on portions of ings off of Sparks Road. The peak level
MONTGOMERY COUNTY 0.8 NW RO [38.99, -77.06], 0.7 WNW ROCK CREEK [77.05] Beach Drive closed from East West High BALTIMORE COUNTY 0.2 SW GLENC [39.54, -76.64], 0.8 WSW GLENCOE [39. The stream gage on Gunpowder Falls at Jpper Glencoe Road, Lower Glencoe Ro of 10.74 feet occurred at 12:15 AM on the FREDERICK COUNTY 1.0 NE UTICA	CK CREEK FOREST [38.99, -77.06], 0 FOREST [38.98, -77.06], 0.5 NNW RO 11/24/18 20:32 EST 11/24/18 22:32 EST way to the DC line due to flooding of R COE [39.55, -76.63], 0.7 SW GLENCOI 54, -76.64], 0.4 W GLENCOE [39.55, -11/24/18 20:36 EST 11/25/18 05:42 EST Glencoe exceeded the flood stage of bad, Sparks Road and Home Road. Added 25th. [39.54, -77.39], 0.9 NW CERESVILLE	CK CREEK FORE Rock Creek. E [39.54, -76.64], 0 76.64], 0.8 NW GL	ST [38.99, -77.05], 0 0 0 0 0 0 0 0 0 0 dicated time perior egan to enter build	Flood (due to Heavy Rain) Source: Fire Department/Rescue E [39.54, -76.64], 0.8 NE SPARKS 6.64], 0.7 NW GLENCOE [39.56, -76.64] Flood (due to Heavy Rain) Source: River/Stream Gage d, leading to flooding on portions of ings off of Sparks Road. The peak level
MONTGOMERY COUNTY 0.8 NW RO [38.99, -77.06], 0.7 WNW ROCK CREEK -77.05] Beach Drive closed from East West High BALTIMORE COUNTY 0.2 SW GLENC [39.54, -76.64], 0.8 WSW GLENCOE [39. The stream gage on Gunpowder Falls at Upper Glencoe Road, Lower Glencoe Ro of 10.74 feet occurred at 12:15 AM on the	CK CREEK FOREST [38.99, -77.06], 0 FOREST [38.98, -77.06], 0.5 NNW RO 11/24/18 20:32 EST 11/24/18 22:32 EST way to the DC line due to flooding of R COE [39.55, -76.63], 0.7 SW GLENCOI 54, -76.64], 0.4 W GLENCOE [39.55, -11/24/18 20:36 EST 11/25/18 05:42 EST Glencoe exceeded the flood stage of bad, Sparks Road and Home Road. Adde 25th. [39.54, -77.39], 0.9 NW CERESVILLE 11/24/18 21:06 EST 11/24/18 23:06 EST	Rock Creek. E [39.54, -76.64], 076.64], 0.8 NW GL 7 feet during the inditionally, water be	ST [38.99, -77.05], 0 0 0 0 0 0 0 0 0 0 dicated time period egan to enter build S LIBERTYTOWN 0 0	Flood (due to Heavy Rain) Source: Fire Department/Rescue E [39.54, -76.64], 0.8 NE SPARKS 6.64], 0.7 NW GLENCOE [39.56, -76.64] Flood (due to Heavy Rain) Source: River/Stream Gage d, leading to flooding on portions of ings off of Sparks Road. The peak level N [39.46, -77.25], 1.5 NW JOHNSVILLE Flood (due to Heavy Rain) Source: State Official
MONTGOMERY COUNTY 0.8 NW RO [38.99, -77.06], 0.7 WNW ROCK CREEK [-77.05] Beach Drive closed from East West High BALTIMORE COUNTY 0.2 SW GLENC [39.54, -76.64], 0.8 WSW GLENCOE [39. The stream gage on Gunpowder Falls at Upper Glencoe Road, Lower Glencoe Ro of 10.74 feet occurred at 12:15 AM on the FREDERICK COUNTY 1.0 NE UTICA [39.54, -77.25] Frederick County 911 Center reported at City.	CK CREEK FOREST [38.99, -77.06], 0 FOREST [38.98, -77.06], 0.5 NNW RO 11/24/18 20:32 EST 11/24/18 22:32 EST way to the DC line due to flooding of F COE [39.55, -76.63], 0.7 SW GLENCOI 54, -76.64], 0.4 W GLENCOE [39.55, - 11/24/18 20:36 EST 11/25/18 05:42 EST Glencoe exceeded the flood stage of odd, Sparks Road and Home Road. Adde 25th. [39.54, -77.39], 0.9 NW CERESVILLE 11/24/18 21:06 EST 11/24/18 23:06 EST pout thirty roads closed due to high war	Rock Creek. E [39.54, -76.64], 076.64], 0.8 NW GL 7 feet during the inditionally, water be [39.46, -77.38], 1.4 ter. The areas that	ST [38.99, -77.05], 0 0 0 0 0 0 0 0 0 0 0 dicated time period egan to enter build 0 0 0 had the most clos	Flood (due to Heavy Rain) Source: Fire Department/Rescue E [39.54, -76.64], 0.8 NE SPARKS 6.64], 0.7 NW GLENCOE [39.56, -76.64] Flood (due to Heavy Rain) Source: River/Stream Gage d, leading to flooding on portions of ings off of Sparks Road. The peak level N [39.46, -77.25], 1.5 NW JOHNSVILLE Flood (due to Heavy Rain) Source: State Official sures were north and east of Frederick
MONTGOMERY COUNTY 0.8 NW RO [38.99, -77.06], 0.7 WNW ROCK CREEK -77.05] Beach Drive closed from East West High BALTIMORE COUNTY 0.2 SW GLENC [39.54, -76.64], 0.8 WSW GLENCOE [39. The stream gage on Gunpowder Falls at Upper Glencoe Road, Lower Glencoe Ro of 10.74 feet occurred at 12:15 AM on the FREDERICK COUNTY 1.0 NE UTICA [39.54, -77.25] Frederick County 911 Center reported at City.	CK CREEK FOREST [38.99, -77.06], 0 FOREST [38.98, -77.06], 0.5 NNW RO 11/24/18 20:32 EST 11/24/18 22:32 EST way to the DC line due to flooding of F COE [39.55, -76.63], 0.7 SW GLENCOI 54, -76.64], 0.4 W GLENCOE [39.55, - 11/24/18 20:36 EST 11/25/18 05:42 EST Glencoe exceeded the flood stage of bad, Sparks Road and Home Road. Adde 25th. [39.54, -77.39], 0.9 NW CERESVILLE 11/24/18 21:06 EST 11/24/18 23:06 EST cout thirty roads closed due to high war	Rock Creek. E [39.54, -76.64], 076.64], 0.8 NW GL 7 feet during the inditionally, water be [39.46, -77.38], 1.4 ter. The areas that	ST [38.99, -77.05], 0 0 0 0 0 0 0 0 0 0 0 dicated time period egan to enter build 0 0 0 had the most clos	Flood (due to Heavy Rain) Source: Fire Department/Rescue E [39.54, -76.64], 0.8 NE SPARKS 6.64], 0.7 NW GLENCOE [39.56, -76.64] Flood (due to Heavy Rain) Source: River/Stream Gage d, leading to flooding on portions of ings off of Sparks Road. The peak level N [39.46, -77.25], 1.5 NW JOHNSVILLE Flood (due to Heavy Rain) Source: State Official sures were north and east of Frederick 17, -77.09], 1.0 SE MT ZION [39.17,
MONTGOMERY COUNTY 0.8 NW RO [38.99, -77.06], 0.7 WNW ROCK CREEK [-77.05] Beach Drive closed from East West High BALTIMORE COUNTY 0.2 SW GLENC [39.54, -76.64], 0.8 WSW GLENCOE [39. The stream gage on Gunpowder Falls at Upper Glencoe Road, Lower Glencoe Ro of 10.74 feet occurred at 12:15 AM on the FREDERICK COUNTY 1.0 NE UTICA [39.54, -77.25] Frederick County 911 Center reported at City.	CK CREEK FOREST [38.99, -77.06], 0 FOREST [38.98, -77.06], 0.5 NNW RO 11/24/18 20:32 EST 11/24/18 22:32 EST way to the DC line due to flooding of F COE [39.55, -76.63], 0.7 SW GLENCOI 54, -76.64], 0.4 W GLENCOE [39.55, - 11/24/18 20:36 EST 11/25/18 05:42 EST Glencoe exceeded the flood stage of odd, Sparks Road and Home Road. Adde 25th. [39.54, -77.39], 0.9 NW CERESVILLE 11/24/18 21:06 EST 11/24/18 23:06 EST pout thirty roads closed due to high war	Rock Creek. E [39.54, -76.64], 076.64], 0.8 NW GL 7 feet during the inditionally, water be [39.46, -77.38], 1.4 ter. The areas that	ST [38.99, -77.05], 0 0 0 0 0 0 0 0 0 0 0 dicated time period egan to enter build 0 0 0 had the most clos	Flood (due to Heavy Rain) Source: Fire Department/Rescue E [39.54, -76.64], 0.8 NE SPARKS 6.64], 0.7 NW GLENCOE [39.56, -76.64] Flood (due to Heavy Rain) Source: River/Stream Gage d, leading to flooding on portions of ings off of Sparks Road. The peak level N [39.46, -77.25], 1.5 NW JOHNSVILLE Flood (due to Heavy Rain) Source: State Official sures were north and east of Frederick

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
HARFORD COUNTY 0.5 SW SINGER	[39.47, -76.34], 0.6 SSW SINGER [39).47, -76.34], 0.9 S\$	W SINGER [39.47	7, -76.34], 0.9 SSW SINGER [39.47,
-76.34], 0.6 SW SINGER [39.47, -76.34], 0	0.6 SW SINGER [39.47, -76.34]			
	11/24/18 21:11 EST		0	Flood (due to Heavy Rain)
	11/24/18 23:46 EST		0	Source: River/Stream Gage
The stream gage on Otter Point Creek at near Singer Road. The peak level of 8.38	_		ndicated period, lea	ading to flooding along Winters Run Road
HOWARD COUNTY 4.0 S SAVAGE [3	9.07, -76.84], 4.2 S SAVAGE [39.07, 11/24/18 21:23 EST	-76.84], 4.1 S SAV	AGE [39.07, -76.83	8], 3.9 S SAVAGE [39.07, -76.84] Flood (due to Heavy Rain)
	11/25/18 03:35 EST		0	Source: River/Stream Gage
	. ,,20, 10 00100 20 1		· ·	
The stream gage on the Little Patuxent R water approached fields off of Bald Eagle	_	-	-	riod. Riverside trains began to flood, and ed at 11:00 PM on the 24th.
HOWARD COUNTY 0.7 N COLUMBIA [39.24, -76.85]	[39.24, -76.85], 0.7 NNE COLUMBIA	[39.24, -76.85], 0.7	NNE COLUMBIA	[39.24, -76.85], 0.6 N COLUMBIA
[00.E4, -10.00]	11/24/18 23:34 EST		0	Flood (due to Heavy Rain)
	11/25/18 01:34 EST		0	Source: Emergency Manager
Road closed due to flooding at intersectio	on of Route 108 and Woodland Road.			
BALTIMORE COUNTY 0.8 SSW OELL		6, -76.78], 1.7 SE (DELLA [39.25, -76	.76], 1.6 SSE OELLA [39.25, -76.77]
BALTIMORE COUNTY 0.8 SSW OELL	11/24/18 23:56 EST	6, -76.78], 1.7 SE (0	Flood (due to Heavy Rain)
The stream gage on the Patapsco River a Road in Patapsco Valley State Park. Larg	11/24/18 23:56 EST 11/25/18 03:52 EST at Elkridge (ERDM2) exceeded the 19	5 foot flood stage d	0 0 uring the indicated	Flood (due to Heavy Rain) Source: River/Stream Gage period, leading to flooding along River
The stream gage on the Patapsco River a Road in Patapsco Valley State Park. Larg 1:45 AM on the 25th. ST. MARY'S COUNTY 0.3 NE GREAT	11/24/18 23:56 EST 11/25/18 03:52 EST at Elkridge (ERDM2) exceeded the 19 ge portions of the park also flooded no	5 foot flood stage d ear the playground	0 0 uring the indicated off Gunn Road. TI	Flood (due to Heavy Rain) Source: River/Stream Gage I period, leading to flooding along River ne peak level of 15.3 feet occurred at
The stream gage on the Patapsco River a Road in Patapsco Valley State Park. Larg I:45 AM on the 25th. ST. MARY'S COUNTY 0.3 NE GREAT	11/24/18 23:56 EST 11/25/18 03:52 EST at Elkridge (ERDM2) exceeded the 19 ge portions of the park also flooded no	5 foot flood stage d ear the playground	0 0 uring the indicated off Gunn Road. TI	Flood (due to Heavy Rain) Source: River/Stream Gage I period, leading to flooding along River ne peak level of 15.3 feet occurred at
The stream gage on the Patapsco River a Road in Patapsco Valley State Park. Larg 1:45 AM on the 25th. ST. MARY'S COUNTY 0.3 NE GREAT	11/24/18 23:56 EST 11/25/18 03:52 EST at Elkridge (ERDM2) exceeded the 19 ge portions of the park also flooded no	5 foot flood stage d ear the playground	0 0 uring the indicated off Gunn Road. TI 5.49], 0.4 E GREA	Flood (due to Heavy Rain) Source: River/Stream Gage I period, leading to flooding along River ne peak level of 15.3 feet occurred at T MILLS [38.23, -76.49], 0.2 E GREAT
The stream gage on the Patapsco River a Road in Patapsco Valley State Park. Larg 1:45 AM on the 25th. ST. MARY'S COUNTY 0.3 NE GREAT MILLS [38.23, -76.50] The stream gage on the St. Marys River a some yards in Great Mills. The peak level	11/24/18 23:56 EST 11/25/18 03:52 EST at Elkridge (ERDM2) exceeded the 19 ge portions of the park also flooded not MILLS [38.23, -76.50], 0.4 NE GREA 11/25/18 00:45 EST 11/25/18 00:45 EST	5 foot flood stage dear the playground T MILLS [38.23, -76]	0 0 uring the indicated off Gunn Road. TI 6.49], 0.4 E GREA 0 0	Flood (due to Heavy Rain) Source: River/Stream Gage I period, leading to flooding along River ne peak level of 15.3 feet occurred at T MILLS [38.23, -76.49], 0.2 E GREAT Flood (due to Heavy Rain)
The stream gage on the Patapsco River a Road in Patapsco Valley State Park. Larg 1:45 AM on the 25th. ST. MARY'S COUNTY 0.3 NE GREAT MILLS [38.23, -76.50] The stream gage on the St. Marys River a some yards in Great Mills. The peak level	11/24/18 23:56 EST 11/25/18 03:52 EST at Elkridge (ERDM2) exceeded the 18 ge portions of the park also flooded not MILLS [38.23, -76.50], 0.4 NE GREA 11/25/18 00:45 EST 11/25/18 00:45 EST at Great Mills exceeded the 6 feet flood of 6.00 feet occurred at 12:45 AM of	of foot flood stage dear the playground T MILLS [38.23, -7] The stage during the part of the 25th.	0 0 uring the indicated off Gunn Road. Ti 6.49], 0.4 E GREA 0 0 indicated period.	Flood (due to Heavy Rain) Source: River/Stream Gage I period, leading to flooding along River ne peak level of 15.3 feet occurred at T MILLS [38.23, -76.49], 0.2 E GREAT Flood (due to Heavy Rain) Source: River/Stream Gage Flat Iron Road flooded, and water entered
The stream gage on the Patapsco River a Road in Patapsco Valley State Park. Large 1:45 AM on the 25th. ST. MARY'S COUNTY 0.3 NE GREAT WILLS [38.23, -76.50] The stream gage on the St. Marys River a some yards in Great Mills. The peak level	11/24/18 23:56 EST 11/25/18 03:52 EST at Elkridge (ERDM2) exceeded the 18 ge portions of the park also flooded not MILLS [38.23, -76.50], 0.4 NE GREA 11/25/18 00:45 EST 11/25/18 00:45 EST at Great Mills exceeded the 6 feet flood of 6.00 feet occurred at 12:45 AM of	of foot flood stage dear the playground T MILLS [38.23, -7] The stage during the part of the 25th.	0 0 uring the indicated off Gunn Road. Ti 6.49], 0.4 E GREA 0 0 indicated period.	Flood (due to Heavy Rain) Source: River/Stream Gage I period, leading to flooding along River ne peak level of 15.3 feet occurred at T MILLS [38.23, -76.49], 0.2 E GREAT Flood (due to Heavy Rain) Source: River/Stream Gage Flat Iron Road flooded, and water entered
The stream gage on the Patapsco River a Road in Patapsco Valley State Park. Larg 1:45 AM on the 25th. ST. MARY'S COUNTY 0.3 NE GREAT MILLS [38.23, -76.50] The stream gage on the St. Marys River a	11/24/18 23:56 EST 11/25/18 03:52 EST at Elkridge (ERDM2) exceeded the 18 ge portions of the park also flooded not MILLS [38.23, -76.50], 0.4 NE GREA 11/25/18 00:45 EST 11/25/18 00:45 EST at Great Mills exceeded the 6 feet flood of 6.00 feet occurred at 12:45 AM of N [39.35, -77.41], 0.3 WSW REELS M 77.39], 0.8 S FREDERICK JCT [39.37	of foot flood stage dear the playground T MILLS [38.23, -7] The stage during the part of the 25th.	0 0 uring the indicated off Gunn Road. Ti 6.49], 0.4 E GREA 0 0 indicated period.	Flood (due to Heavy Rain) Source: River/Stream Gage I period, leading to flooding along River ne peak level of 15.3 feet occurred at T MILLS [38.23, -76.49], 0.2 E GREAT Flood (due to Heavy Rain) Source: River/Stream Gage Flat Iron Road flooded, and water entered
The stream gage on the Patapsco River at Road in Patapsco Valley State Park. Large 1:45 AM on the 25th. ST. MARY'S COUNTY 0.3 NE GREAT MILLS [38.23, -76.50] The stream gage on the St. Marys River at some yards in Great Mills. The peak level FREDERICK COUNTY 1.2 E LIME KIL-77.38], 0.3 E FREDERICK JCT [39.38, -7] The river gage on the Monocacy River at	11/24/18 23:56 EST 11/25/18 03:52 EST at Elkridge (ERDM2) exceeded the 18 ge portions of the park also flooded not MILLS [38.23, -76.50], 0.4 NE GREA 11/25/18 00:45 EST 11/25/18 00:45 EST at Great Mills exceeded the 6 feet flood of 6.00 feet occurred at 12:45 AM of IN [39.35, -77.41], 0.3 WSW REELS NOT 11/25/18 08:35 EST 11/25/18 17:08 EST Frederick exceeded the 15 foot flood	of foot flood stage dear the playground T MILLS [38.23, -7] The desired stage during the part of the 25th. MILL [39.37, -77.39] 1, -77.40], 0.9 NE LI	0 0 uring the indicated off Gunn Road. The G.49], 0.4 E GREA 0 0 indicated period.	Flood (due to Heavy Rain) Source: River/Stream Gage I period, leading to flooding along River ne peak level of 15.3 feet occurred at T MILLS [38.23, -76.49], 0.2 E GREAT Flood (due to Heavy Rain) Source: River/Stream Gage Flat Iron Road flooded, and water entered [39.39, -77.37], 0.4 SSE GROVE [39.40, 77.42] Flood (due to Heavy Rain) Source: River/Stream Gage ading to flooding of portions of Pinecliff
The stream gage on the Patapsco River a Road in Patapsco Valley State Park. Larg 1:45 AM on the 25th. ST. MARY'S COUNTY 0.3 NE GREAT MILLS [38.23, -76.50] The stream gage on the St. Marys River a some yards in Great Mills. The peak level	11/24/18 23:56 EST 11/25/18 03:52 EST at Elkridge (ERDM2) exceeded the 18 ge portions of the park also flooded not get portions at Great Mills exceeded the 6 feet flood of 6.00 feet occurred at 12:45 AM of get portions of the flooded not get portions at 12:45 AM of get portions of the get portions of the get portions of the get portions of the get portions at Monocacy National Battlefield. The area on the 24th as surface low parts of the get portions of the get portion	of foot flood stage dear the playground T MILLS [38.23, -7] T MILLS [38.23, -7] T MILL [39.37, -77.39] T MILL [39.37, -77.39] T MILL [39.47, -77.40] The peak level of 1 The peak level of 1	0 0 0 uring the indicated off Gunn Road. The Green the left exit region of the Green Road.	Flood (due to Heavy Rain) Source: River/Stream Gage I period, leading to flooding along River the peak level of 15.3 feet occurred at I MILLS [38.23, -76.49], 0.2 E GREAT Flood (due to Heavy Rain) Source: River/Stream Gage Flat Iron Road flooded, and water entered I [39.39, -77.37], 0.4 SSE GROVE [39.40, 177.42] Flood (due to Heavy Rain) Source: River/Stream Gage adding to flooding of portions of Pinecliff I at 1:45 PM on the 25th. at Lakes and secondary on of an upper-level jet
The stream gage on the Patapsco River at Road in Patapsco Valley State Park. Large 1:45 AM on the 25th. ST. MARY'S COUNTY 0.3 NE GREAT MILLS [38.23, -76.50] The stream gage on the St. Marys River at some yards in Great Mills. The peak level FREDERICK COUNTY 1.2 E LIME KIL-77.38], 0.3 E FREDERICK JCT [39.38, -7] The river gage on the Monocacy River at Park, as well as many of the low-lying fiel A negatively tilted trough approached the low pressure formed along the Carolina streak led to a period of moderate to he	11/24/18 23:56 EST 11/25/18 03:52 EST at Elkridge (ERDM2) exceeded the 18 ge portions of the park also flooded not get portions at Great Mills exceeded the 6 feet flood of 6.00 feet occurred at 12:45 AM of the flood flood flood flooded not get portions at Monocacy National Battlefield. Frederick exceeded the 15 foot flood ds at Monocacy National Battlefield. The area on the 24th as surface low particles of flooding.	of foot flood stage dear the playground T MILLS [38.23, -7] T MILLS [38.23, -7] T MILL [39.37, -77.39] T MILL [39.37, -77.39] T MILL [39.47, -77.40] The peak level of 1 The peak level of 1	0 0 0 uring the indicated off Gunn Road. The Green the left exit region of the Green Road.	Flood (due to Heavy Rain) Source: River/Stream Gage I period, leading to flooding along River the peak level of 15.3 feet occurred at I MILLS [38.23, -76.49], 0.2 E GREAT Flood (due to Heavy Rain) Source: River/Stream Gage Flat Iron Road flooded, and water entered I [39.39, -77.37], 0.4 SSE GROVE [39.40, 177.42] Flood (due to Heavy Rain) Source: River/Stream Gage adding to flooding of portions of Pinecliff I at 1:45 PM on the 25th. at Lakes and secondary on of an upper-level jet
The stream gage on the Patapsco River at Road in Patapsco Valley State Park. Large 1:45 AM on the 25th. ST. MARY'S COUNTY 0.3 NE GREAT MILLS [38.23, -76.50] The stream gage on the St. Marys River at some yards in Great Mills. The peak level of FREDERICK COUNTY 1.2 E LIME KIL-77.38], 0.3 E FREDERICK JCT [39.38, -7] The river gage on the Monocacy River at Park, as well as many of the low-lying field A negatively tilted trough approached the low pressure formed along the Carolina streak led to a period of moderate to he across the area, resulting in many instated.	11/24/18 23:56 EST 11/25/18 03:52 EST at Elkridge (ERDM2) exceeded the 18 ge portions of the park also flooded not get portions at Great Mills exceeded the 6 feet flood of 6.00 feet occurred at 12:45 AM of the flood flood flood flooded not get portions at Monocacy National Battlefield. Frederick exceeded the 15 foot flood ds at Monocacy National Battlefield. The area on the 24th as surface low particles of flooding.	of foot flood stage dear the playground T MILLS [38.23, -7] T MILLS [38.23, -7] T MILL [39.37, -77.39] T MILL [39.37, -77.39] T MILL [39.47, -77.40] The peak level of 1 The peak level of 1	0 0 0 uring the indicated off Gunn Road. The Green the left exit region of the Green Road.	Flood (due to Heavy Rain) Source: River/Stream Gage I period, leading to flooding along River the peak level of 15.3 feet occurred at I MILLS [38.23, -76.49], 0.2 E GREAT Flood (due to Heavy Rain) Source: River/Stream Gage Flat Iron Road flooded, and water entered I [39.39, -77.37], 0.4 SSE GROVE [39.40, 177.42] Flood (due to Heavy Rain) Source: River/Stream Gage adding to flooding of portions of Pinecliff I at 1:45 PM on the 25th. at Lakes and secondary on of an upper-level jet

VIRGINIA, North

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	KS CROSSING [38.92, -77.30], 0.2 SSW (CLARKS CROSSI	NG [38.92, -77.30],	0.2 S CLARKS CROSSING [38.92,
-77.30], 0.2 SW CLARKS CROSSING	5 [38.92, -77.30] 11/05/18 11:04 EST		0	Flood (due to Heavy Rain)
	11/05/18 13:04 EST		0	Source: Department of Highways
_awyers Road closed near Hunter Mi				, ,
FAIRFAX COUNTY 0.8 SSE BUR	KE [38.79, -77.27], 0.8 SSE BURKE [38.79	9, -77.27], 0.9 S BL	=	
	11/05/18 11:04 EST		0	Flood (due to Heavy Rain)
	11/05/18 15:00 EST		0	Source: Department of Highways
Burke Road closed near Heritage Sq	uare Drive due to flooding.			
	MONT [38.85, -77.24], 0.9 WSW TREMON	NT [38.85, -77.24],	1.0 WSW TREMOR	NT [38.85, -77.24], 1.1 WSW
TREMONT [38.85, -77.24]	11/05/18 11:04 EST		0	Flood (due to Heavy Rain)
	11/05/18 15:00 EST		0	Source: Department of Highways
Woodburn Road closed due to floodii	ng near intersection with Spicewood Drive) .		
FAIRFAX COUNTY 1.7 S KENMO	RE [38.93, -77.27], 1.7 N VIENNA [38.92, 11/05/18 11:04 EST	-77.26], 1.8 SSE K	ENMORE [38.93 , -	77.26], 1.6 S KENMORE [38.93, -77.27] Flood (due to Heavy Rain)
	11/05/18 13:04 EST		0	Source: Department of Highways
Old Courthouse Road closed near Be	eslev Road due to flooding.			. ,
FAIRFAX COUNTY 2.5 SSW SUN: SSW SUNSET HILLS [38.92, -77.37]	SET HILLS [38.92, -77.37], 2.4 SSW SUN	SET HILLS [38.92,	, -77.37], 2.2 SSW	SUNSET HILLS [38.92, -77.37], 2.3
33W 30N3E1 HILLS [30.32, -77.37]	11/05/18 11:04 EST		0	Flood (due to Heavy Rain)
	11/05/18 13:04 EST		0	Source: Department of Highways
Fox Mill Road closed near Steeplech	ase Drive due to flooding.			
FAIREAY COUNTY 2 4 NNW VAL	E [38.91, -77.36], 2.5 NNW VALE [38.91, -	-77 371 1 9 NNW \	/ALE [38 91 _77 36	S1 1 9 NNW VALE [38 91 _77 36]
1 AIN AX COOK 11 2.4 KKW VAL	11/05/18 13:00 EST	-77.57], 1.5 KHVV V	0	Flood (due to Heavy Rain)
	11/05/18 15:00 EST		0	Source: Law Enforcement
Fox Mill Road closed near Thorought	ored Road and between Westwood Hills D	Orive and Shady M	ill Lane due to flood	ding.
• •	entropic ascent to the north of a warm fr of rainfall, which led to localized floodin	•	narily during the n	norning nours of the 5th.
(VA-Z054) ARLINGTON, (VA-Z057) K	KING GEORGE			
,	11/10/18 22:00 EST		0	Frost/Freeze
	11/11/18 09:00 EST		0	
High pressure clear skips and ligh	t winds led to temperatures that fell belo	ow freezing		
ingii pressure, ciear skies, anu lign	t will be to temperatures that left belo	ow inecalling.		
(VA-Z025) AUGUSTA, (VA-Z026) RO	CKINGHAM, (VA-Z028) FREDERICK, (VA	A-Z029) PAGE, (V	A-Z030) WARREN,	(VA-Z031) CLARKE, (VA-Z505)
WESTERN LOUDOUN, (VA-Z507) NO	ORTHERN VIRGINIA BLUE RIDGE, (VA-Z	Z508) CENTRAL V		
	11/15/18 03:00 EST		0	Winter Storm
	11/16/18 00:00 EST		0	
(VA-Z036) NELSON, (VA-Z037) ALBI	EMARLE, (VA-Z038) GREENE, (VA-Z039)) MADISON, (VA-Z	(040) RAPPAHANN	NOCK, (VA-Z050) ORANGE,
(VA-Z051) CULPEPER, (VA-Z052) PF	RINCE WILLIAM, (VA-Z053) FAIRFAX, (V	A-Z054) ARLINGT	ON, (VA-Z501) NO	RTHERN FAUQUIER, (VA-Z502)
SOUTHERN FAUQUIER, (VA-Z503) \	WESTERN HIGHLAND, (VA-Z504) EASTE	ERN HIGHLAND, (
	11/15/18 03:00 EST		0	Winter Weather

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0

11/16/18 00:00 EST

An area of low pressure developed across the southeastern United States on the night of November 14th, and tracked northeastward along the North and South Carolina coastlines during the daytime hours on the 15th, strengthening to around 995mb on the night of the

Location Date/Time Deaths & **Event Type and Details** Property & Injuries Crop Dmg 15th as it continued moving northward through the Delmarva to New Jersey by the morning of the 16th. Further strengthening to around 985 mb occurred on the 16th as the system sped up and moved towards Nova Scotia. Widespread precipitation was brought to the region, including heavy snow and mixed precipitation north of I-66 and west of I-81, and mainly rain in central Virginia. PRINCE WILLIAM COUNTY --- 2.6 SW ADEN [38.62, -77.56], 2.9 SSW ADEN [38.61, -77.56], 2.7 SSW ADEN [38.61, -77.55], 2.4 SSW ADEN [38.62, -77.551 11/15/18 11:37 EST 0 Flood (due to Heavy Rain) 11/16/18 12:27 EST 0 Source: River/Stream Gage The stream gage on Cedar Run at Aden exceeded the 10 foot flood stage during the indicated period, flooding Fleetwood Drive near Cedar Run. The peak level of 11 feet occurred at 8:36 AM on November 16th. CULPEPER COUNTY --- 2.5 NW RAPIDAN [38.34, -78.10], 1.6 NW RAPIDAN [38.34, -78.09], 0.9 NW RAPIDAN [38.33, -78.08], 0.9 NW RAPIDAN [38.34, -78.09], 0.9 NW RAPIDAN [38.34, -78.08], 0.9 NW RAPIDAN [38.34, -78.09], 0.9 NW RAPIDAN [38.34, -78.08], 0.9 NW RAP -78.08], 1.3 NW RAPIDAN [38.33, -78.09], 1.7 NW RAPIDAN [38.34, -78.09], 2.4 NW RAPIDAN [38.34, -78.10], 2.5 NW RAPIDAN [38.34, -78.10] 11/15/18 19:54 EST 0 Flood (due to Heavy Rain) 11/15/18 23:54 EST 0 Source: River/Stream Gage The stream gage on the Robinson River at Locust Dale exceeded the 11 foot flood stage during the indicated period. Water covered portions of Route 721 (Robinson River Road) and agricultural flooding occurred. The peak level of 11.54 feet occurred at 9:45 PM. PRINCE WILLIAM COUNTY --- 1.1 NNW YORKSHIRE [38.80, -77.44], 0.8 NNW YORKSHIRE [38.79, -77.44], 0.5 NNW YORKSHIRE [38.79, -77.43], 0.2 W YORKSHIRE [38.78, -77.43], 0.1 WNW YORKSHIRE [38.78, -77.43], 0.5 NNW YORKSHIRE [38.79, -77.43], 1.0 NNW YORKSHIRE [38.79, -77.44], 1.1 NNW YORKSHIRE [38.80, -77.44] 11/16/18 04:00 EST 0 Flood (due to Heavy Rain) 11/16/18 09:20 EST 0 Source: River/Stream Gage The stream gage on the Bull Run at Manassas Park exceeded the 12 foot flood stage during the indicated period. Water covered backyards in the Yorkshire area and flooded portions of the Bull Run trail system. The peak level of 12.23 feet occurred at 7:00 AM. A potent upper-level low approached the area from the Mississippi Valley as low pressure developed along the North Carolina coastline and moved north. Heavy precipitation (some of which fell in the form of snow) overspread the area during the morning of the 15th and lasted through the mid-afternoon hours, leading to some localized instances of flooding. (VA-Z025) AUGUSTA, (VA-Z026) ROCKINGHAM, (VA-Z027) SHENANDOAH, (VA-Z028) FREDERICK, (VA-Z029) PAGE, (VA-Z030) WARREN, (VA-Z031) CLARKE, (VA-Z036) NELSON, (VA-Z037) ALBEMARLE, (VA-Z038) GREENE, (VA-Z039) MADISON, (VA-Z040) RAPPAHANNOCK, (VA-Z050) ORANGE, (VA-Z501) NORTHERN FAUQUIER, (VA-Z503) WESTERN HIGHLAND, (VA-Z504) EASTERN HIGHLAND, (VA-Z505) WESTERN LOUDOUN, (VA-Z507) NORTHERN VIRGINIA BLUE RIDGE, (VA-Z508) CENTRAL VIRGINIA BLUE RIDGE 11/24/18 05:00 EST Winter Weather 0 11/24/18 13:00 EST An area of low pressure developed along the Gulf Coast on the night of November 23rd, and tracked northeastward to the North and South Carolina coastlines during the daytime hours on the 24th, strengthening to around 990mb on the night of the 24th as it continued moving northeastward through the Delmarva to off the coast of New Jersey by the morning of the 25th. The system then began weakening on the 25th as it moved out into the western Atlantic Ocean. Widespread rain was brought to the region, along with a period of freezing rain and ice accumulations along and west of the Blue Ridge. FAIRFAX COUNTY --- 1.0 NE CENTREVILLE [38.84, -77.41], 1.4 WSW LEGATO [38.84, -77.39], 1.4 WSW LEGATO [38.84, -77.39], 1.1 NE CENTREVILLE [38.84, -77.41] 11/24/18 17:45 EST 0 Flood (due to Heavy Rain) n 11/24/18 19:45 FST Source: Law Enforcement Both eastbound lanes of Lee Highway were closed at Stringfellow Road due to floodwaters. FAIRFAX COUNTY --- 1.1 WSW TREMONT [38.85, -77.24], 1.0 WSW TREMONT [38.85, -77.24], 0.9 WSW TREMONT [38.85, -77.24], 1.0 WSW TREMONT [38.85, -77.24] 11/24/18 17:46 EST 0 Flood (due to Heavy Rain) 11/24/18 19:46 EST Source: Fire Department/Rescue Water rescue required after car became stranded in floodwaters on Woodburn Road at Accotink Creek.

FAIRFAX COUNTY --- 0.2 SW CLARKS CROSSING [38.92, -77.30], 0.1 WSW CLARKS CROSSING [38.92, -77.30], 0.2 SSE CLARKS CROSSING [38.92,

-77.30], 0.3 S CLARKS CROSSING [38.92, -77.30]

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	11/24/18 18:30 EST		0	Flood (due to Heavy Rain)
	11/24/18 20:30 EST		0	Source: State Official
awyers Road at Hunter Mill Road was c	closed due to high water.			
		OVANS CORNER	[38.77, -77.31], 0.7	E DONOVANS CORNER [38.77, -77.31],
0.6 E DONOVANS CORNER [38.77, -77.	11/24/18 18:30 EST		0	Flood (due to Heavy Rain)
	11/24/18 20:30 EST		0	Source: State Official
Burke Lake Road at Jeremiah Court was	s closed due to high water.			
FAIRFAX COUNTY 0.8 SSE BURKE [[38.79, -77.27], 0.8 SSE BURKE [38.79] 11/24/18 18:30 EST	9, -77.27], 0.9 SSE	BURKE [38.79, -77	7.26], 0.9 SSE BURKE [38.79, -77.27] Flood (due to Heavy Rain)
	11/24/18 20:30 EST		0	Source: State Official
Burke Road at Heritage Square Drive wa	as closed due to high water.			
AIRFAX COUNTY 2.2 NNW VALE [3	88 91 -77 361 2 3 NNW VALE [38 91	-77 361 2 3 NNW \	ΔI F [38 91 -77 36	SI 2.3 NNW VALE [38.91 -77.36]
The latest	11/24/18 18:30 EST		0	Flood (due to Heavy Rain)
	11/24/18 20:30 EST		0	Source: State Official
Fox Mill Road at Folkstone Drive was clo	osed due to high water.			
OUDOUN COUNTY 1.4 S LEESBUR	RG MUNI [39.06, -77.55], 1.2 S LEESB	URG MUNI [39.06,	-77.55], 1.2 S LEE	SBURG MUNI [39.06, -77.55], 1.4 S
EESBURG MUNI [39.06, -77.55]	-			-
	11/24/18 19:42 EST 11/24/18 21:42 EST		0	Flood (due to Heavy Rain) Source: State Official
PRINCE WILLIAM COUNTY 1.2 NNW 'ORKSHIRE [38.78, -77.43], 0.1 WNW Y	=	_		NW YORKSHIRE [38.79, -77.43], 0.2 W V YORKSHIRE [38.79, -77.44], 1.1 NNW
ORKSHIRE [38.80, -77.44]	11/24/18 23:35 EST		0	Flood (due to Heavy Pain)
	11/24/18 23:35 EST 11/25/18 08:56 EST		0	Flood (due to Heavy Rain) Source: River/Stream Gage
The stream gage on the Bull Run at Man	nassas Park exceeded the 12 foot floo	d stage during the	indicated period. W	Vater covered backyards in the Yorkshire
area and flooded portions of the Bull Rur			· ·	
PRINCE WILLIAM COUNTY 2.6 SSW 77.55]	ADEN [38.62, -77.56], 2.8 SSW ADEN	I [38.61, -77.56], 2	7 SSW ADEN [38.	61, -77.55], 2.5 SSW ADEN [38.62,
	11/25/18 00:15 EST		0	Flood (due to Heavy Rain)
	11/25/18 08:53 EST		0	Source: River/Stream Gage
The stream gage on Cedar Run at Aden evel of 10.48 feet occurred at 5:45 AM o	•	ng the indicated pe	eriod, flooding Flee	twood Drive near Cedar Run. The peak
PRINCE WILLIAM COUNTY 0.8 N BR 38.73, -77.53]	RISTOW [38.73, -77.53], 0.8 N BRISTO	W [38.73, -77.53],	0.5 N BRISTOW [3	8.73, -77.53], 0.5 NNW BRISTOW
55.15, -11. 55]	11/25/18 00:54 EST		0	Flood (due to Heavy Rain)
	11/25/18 04:41 EST		0	Source: River/Stream Gage
The stream gage on the Broad Run at Br rails along the stream were also flooded		-		ane flooded near Manassas Airport and
A negatively tilted trough approached to low pressure formed along the Carolina streak led to a period of moderate to he across the area, resulting in many insta	a Coast. Lift ahead of the negatively eavy rain through much of the day o	tilted trough/withi	n the left exit region	on of an upper-level jet

(VA-Z503) WESTERN HIGHLAND

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Location				
	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	11/28/18 01:00 EST		0	Cold/Wind Chill
	11/28/18 09:00 EST		0	
A low pressure system moved up the eas temperatures and strong northwest winds was able to produce wind chill values as i	s funneling behind the system fro	m the night of the	27th into the morr	
WEST VIRGINIA, East				
NAV ZEOS) MEGTERN RENDI ETON (MA)	7500) FAOTERN BENDLETON			
WV-Z505) WESTERN PENDLETON, (WV-Z	11/15/18 03:00 EST		0	Winter Weather
	11/16/18 00:00 EST		0	willer weather
	11/10/10 00:00 E01		O	
WV-Z050) HAMPSHIRE, (WV-Z051) MORG	GAN, (WV-Z052) BERKELEY, (WV-	Z053) JEFFERSOI	I, (WV-Z055) HARI	DY, (WV-Z501) WESTERN GRANT,
NV-Z502) EASTERN GRANT, (WV-Z503)		EASTERN MINERA		Window Others
	11/15/18 05:00 EST		0	Winter Storm
	11/16/18 00:00 EST		0	
85 mb occurred on the 16th as the syste egion, including heavy snow and mixed NV-Z050) HAMPSHIRE, (WV-Z051) MORC	precipitation.			
WV-Z505) WESTERN PENDLETON, (WV-Z	Z506) EASTERN PENDLETON	2000, 021 1 211001	., (*** 2 000)	51, (*** 2001) ***2012********************************
	11/24/18 05:00 EST		0	Winter Weather
	11/24/18 13:00 EST		0	
NV-Z502) EASTERN GRANT, (WV-Z503)	WESTERN MINERAL, (WV-Z504) E	EASTERN MINERA	L	
VV-Z502) EASTERN GRANT, (WV-Z503)	WESTERN MINERAL, (WV-Z504) B 11/24/18 07:00 EST	EASTERN MINERA	L 0	Winter Storm
WV-Z502) EASTERN GRANT, (WV-Z503) \		EASTERN MINERA		Winter Storm
on area of low pressure developed along touth Carolina coastlines during the day noving northeastward through the Delma reakening on the 25th as it moved out in freezing rain and ice accumulations.	11/24/18 07:00 EST 11/24/18 15:00 EST the Gulf Coast on the night of No time hours on the 24th, strengthe arva to off the coast of New Jerse to the western Atlantic Ocean. Wi	ovember 23rd, and ning to around 990 y by the morning o despread rain was E (MRB)SHEPHER	0 0 tracked northeast Imb on the night of the 25th. The sys brought to the res	ward to the North and of the 24th as it continued stem then began gion, along with a period -77.95], 2.6 SSE (MRB)SHEPHERD FLD
an area of low pressure developed along touth Carolina coastlines during the day noving northeastward through the Delma reakening on the 25th as it moved out in freezing rain and ice accumulations. SERKELEY COUNTY 2.2 WSW VANCLIR [39.37, -77.96], 2.8 SSE (MRB)SHEPHE	11/24/18 07:00 EST 11/24/18 15:00 EST the Gulf Coast on the night of No time hours on the 24th, strengthe arva to off the coast of New Jerse to the western Atlantic Ocean. Wi EVESVILLE [39.42, -77.94], 2.0 EN ERD FLD MR [39.37, -77.95], 3.0 ES	ovember 23rd, and ning to around 990 y by the morning o despread rain was E (MRB)SHEPHER	0 0 tracked northeast Imb on the night of if the 25th. The system brought to the resolution	ward to the North and of the 24th as it continued stem then began gion, along with a period -77.95], 2.6 SSE (MRB)SHEPHERD FLD , -77.93], 0.3 SW BLAIRTON [39.45,
n area of low pressure developed along outh Carolina coastlines during the days loving northeastward through the Delma eakening on the 25th as it moved out in freezing rain and ice accumulations. ERKELEY COUNTY 2.2 WSW VANCLIR [39.37, -77.96], 2.8 SSE (MRB)SHEPHE	11/24/18 07:00 EST 11/24/18 15:00 EST the Gulf Coast on the night of No time hours on the 24th, strengthe arva to off the coast of New Jerse to the western Atlantic Ocean. Wi EVESVILLE [39.42, -77.94], 2.0 EN ERD FLD MR [39.37, -77.95], 3.0 EM 11/25/18 06:30 EST	ovember 23rd, and ning to around 990 y by the morning o despread rain was E (MRB)SHEPHER	0 0 tracked northeast bmb on the night of the 25th. The system brought to the res	ward to the North and of the 24th as it continued stem then began gion, along with a period -77.95], 2.6 SSE (MRB)SHEPHERD FLD , -77.93], 0.3 SW BLAIRTON [39.45, Flood (due to Heavy Rain)
n area of low pressure developed along outh Carolina coastlines during the day noving northeastward through the Delma reakening on the 25th as it moved out in freezing rain and ice accumulations. ERKELEY COUNTY 2.2 WSW VANCLI	11/24/18 07:00 EST 11/24/18 15:00 EST the Gulf Coast on the night of No time hours on the 24th, strengthe arva to off the coast of New Jerse to the western Atlantic Ocean. Wi EVESVILLE [39.42, -77.94], 2.0 EN ERD FLD MR [39.37, -77.95], 3.0 ES	ovember 23rd, and ning to around 990 y by the morning o despread rain was E (MRB)SHEPHER	0 0 tracked northeast Imb on the night of if the 25th. The system brought to the resolution	ward to the North and of the 24th as it continued stem then began gion, along with a period -77.95], 2.6 SSE (MRB)SHEPHERD FLD , -77.93], 0.3 SW BLAIRTON [39.45,
outh Carolina coastlines during the days noving northeastward through the Delma reakening on the 25th as it moved out inferezing rain and ice accumulations. ERKELEY COUNTY 2.2 WSW VANCLI IR [39.37, -77.96], 2.8 SSE (MRB)SHEPHE 77.92], 1.0 WSW BLAIRTON [39.44, -77.94] the river gage on the Opequon Creek at Managas Grove Road (County Road 9/16) as the peak level of 10.32 feet occurred at 9:30 an egatively tilted trough approached the	11/24/18 07:00 EST 11/24/18 15:00 EST the Gulf Coast on the night of No time hours on the 24th, strengthe arva to off the coast of New Jerse to the western Atlantic Ocean. Wi EVESVILLE [39.42, -77.94], 2.0 EN ERD FLD MR [39.37, -77.95], 3.0 EST 11/25/18 06:30 EST 11/25/18 12:01 EST artinsburg exceeded the 10 foot floand Bowers Road. Additionally, was 30 AM on the 25th.	ovember 23rd, and ning to around 990 by the morning of despread rain was E (MRB)SHEPHER SE (MRB)SHEPHER and stage during the ater covered the stropressure tracked upper stracked upper st	tracked northeast bimb on the night of the 25th. The system of the 25th of the reserved brought to the reserved brought to the reserved brought (39.42, RD FLD MR [39.38] 0 0 c indicated period, seam access point and properties of the control of	ward to the North and of the 24th as it continued stem then began gion, along with a period -77.95], 2.6 SSE (MRB)SHEPHERD FLD , -77.93], 0.3 SW BLAIRTON [39.45, Flood (due to Heavy Rain) Source: River/Stream Gage leading to flooding along portions of at the Van Metre Ford Pedestrian Bridge.
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on area of low pressure developed along outh Carolina coastlines during the days to a control of the county of the	11/24/18 07:00 EST 11/24/18 15:00 EST the Gulf Coast on the night of No time hours on the 24th, strengthe arva to off the coast of New Jerses to the western Atlantic Ocean. William Service (Service of New Jerses (New Jers	ovember 23rd, and ning to around 990 by the morning of despread rain was E (MRB)SHEPHER SE (MRB)SHEPHER and stage during the ater covered the stropressure tracked utilted trough/withing	tracked northeast bimb on the night of the 25th. The system brought to the resolution D FLD MR [39.42, RD FLD MR [39.38 0 0 c indicated period, earn access point and	ward to the North and of the 24th as it continued stem then began gion, along with a period -77.95], 2.6 SSE (MRB)SHEPHERD FLD , -77.93], 0.3 SW BLAIRTON [39.45, Flood (due to Heavy Rain) Source: River/Stream Gage leading to flooding along portions of at the Van Metre Ford Pedestrian Bridge.
AV-Z502) EASTERN GRANT, (WV-Z503) in area of low pressure developed along touth Carolina coastlines during the days noving northeastward through the Delma reakening on the 25th as it moved out into f freezing rain and ice accumulations. EERKELEY COUNTY 2.2 WSW VANCLI IR [39.37, -77.96], 2.8 SSE (MRB)SHEPHE 77.92], 1.0 WSW BLAIRTON [39.44, -77.94] The river gage on the Opequon Creek at M bouglas Grove Road (County Road 9/16) at the peak level of 10.32 feet occurred at 9:3 in negatively tilted trough approached the ow pressure formed along the Carolina County area of the county for the county of the county of the county of the county of the carolina County in the carolina County of the carolina Coun	11/24/18 07:00 EST 11/24/18 15:00 EST the Gulf Coast on the night of No time hours on the 24th, strengthe arva to off the coast of New Jerses to the western Atlantic Ocean. William Service (Service of New Jerses (New Jers	ovember 23rd, and ning to around 990 by the morning of despread rain was E (MRB)SHEPHER SE (MRB)SHEPHER and stage during the ater covered the stropressure tracked utilted trough/withing	tracked northeast bimb on the night of the 25th. The system brought to the resolution D FLD MR [39.42, RD FLD MR [39.38 0 0 c indicated period, earn access point and	ward to the North and of the 24th as it continued stem then began gion, along with a period -77.95], 2.6 SSE (MRB)SHEPHERD FLD , -77.93], 0.3 SW BLAIRTON [39.45, Flood (due to Heavy Rain) Source: River/Stream Gage leading to flooding along portions of at the Van Metre Ford Pedestrian Bridge.

Gusty northwest flow behind a departing low pressure system combined with lingering low level moisture and elevated terrain to generate up-slope snow showers along and near the Allegheny Front from the afternoon of November 27th into the morning of the 28th.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
(WV-Z505) WESTERN PENDLETON				
	11/28/18 01:00 EST		0	Cold/Wind Chill
	11/28/18 09:00 EST		0	

A low pressure system moved up the eastern seaboard of the United States from November 26th through the 27th, with cold temperatures and strong northwest winds funneling behind the system from the night of the 27th into the morning of the 28th. This was able to produce wind chill values as low as -10 degrees over the higher terrain near the Allegheny Front.

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