

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ATLANTIC NORTH				
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- ANNAPOLIS (KNAK) [38.98, -76.48]				
	07/02/19 17:08 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/02/19 17:08 EST	0		Source: Buoy
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- TOLLY POINT (TOL) [38.94, -76.44]				
	07/02/19 17:10 EST	0		Marine Thunderstorm Wind (MG 39 kt)
	07/02/19 17:15 EST	0		Source: Buoy
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- GREENBERRY POINT (GBY) [38.97, -76.46]				
	07/02/19 17:13 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/02/19 17:23 EST	0		Source: Buoy
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- KENT ISLAND HS (SPVNS) [38.99, -76.31]				
	07/02/19 17:20 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/02/19 17:30 EST	0		Source: Buoy
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- TOLLY POINT (TOL) [38.94, -76.44]				
	07/02/19 18:00 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/02/19 18:00 EST	0		Source: Buoy
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- ORIOLE PARK AT CAMDEN YARDS (BLTPC) [39.28, -76.62]				
	07/02/19 18:45 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/02/19 18:45 EST	0		Source: Buoy
CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- (KMTN)MARTIN STATE AIRPORT [39.33, -76.42]				
	07/02/19 18:50 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/02/19 18:50 EST	0		Source: Buoy
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- BALTIMORE KEY BRIDGE (FSKM2) [39.22, -76.53]				
	07/02/19 19:00 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/02/19 19:00 EST	0		Source: Buoy
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- GREENBERRY POINT (GBY) [38.97, -76.46]				
	07/02/19 19:13 EST	0		Marine Thunderstorm Wind (MG 43 kt)
	07/02/19 19:38 EST	0		Source: Buoy
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.6 NW GREENBERRY POINT (GBY) [38.97, -76.47]				
	07/02/19 19:18 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/02/19 19:18 EST	0		Source: Buoy
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- TOLLY POINT (TOL) [38.94, -76.44]				
	07/02/19 19:20 EST	0		Marine Thunderstorm Wind (MG 35 kt)
	07/02/19 19:30 EST	0		Source: Buoy
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- KENT ISLAND (KNT) [38.92, -76.36]				
	07/02/19 19:26 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/02/19 19:26 EST	0		Source: Buoy
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- HERRING BAY (HRB) [38.73, -76.54]				
	07/02/19 19:35 EST	0		Marine Thunderstorm Wind (MG 38 kt)
	07/02/19 20:00 EST	0		Source: Buoy
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- KENT ISLAND HS (SPVNS) [38.99, -76.31]				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/02/19 19:35 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	07/02/19 19:50 EST		0	Source: Buoy
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CHOPTANK RIVER TO CAMBRIDGE MD AND THE LITTLE CHOPTANK RIVER COUNTY --- BLACKWALNUT HARBOR (BWH) [38.68, -76.33]				
	07/02/19 19:46 EST		0	Marine Thunderstorm Wind (MG 37 kt)
	07/02/19 20:06 EST		0	Source: Buoy
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CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- THOMAS POINT (TPLM2) [38.90, -76.44]				
	07/02/19 20:00 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	07/02/19 20:00 EST		0	Source: Buoy
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CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- MID BAY BUOY [38.47, -76.38]				
	07/02/19 20:12 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	07/02/19 20:24 EST		0	Source: Buoy
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<p>Increasing temperatures and low level moisture led to developing instability across the region during the day of July 2nd. The strongest mid-level forcing remained to the north across northern PA/OH where a stationary boundary lingered. However a weak upper level shortwave trough moving through did help showers and scattered thunderstorms to develop across the area, and given the instability a few produced gusty winds over the waters.</p>				
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TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- QUANTICO (KNYG) [38.51, -77.30]				
	07/04/19 15:18 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	07/04/19 15:18 EST		0	Source: AWOS
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<p>Heat and plentiful low level moisture led to the development of instability and therefore scattered showers and thunderstorms during the afternoon of July 4th. While forcing was limited, one of the thunderstorms did briefly produce gusty winds over portions of the waters.</p>				
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CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.3 SSW ANNAPOLIS (KNAK) [38.98, -76.48]				
	07/06/19 13:47 EST		0	Marine Thunderstorm Wind (MG 45 kt)
	07/06/19 13:47 EST		0	Source: Buoy
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CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- ANNAPOLIS (KNAK) [38.98, -76.48]				
	07/06/19 13:59 EST		0	Marine Thunderstorm Wind (MG 44 kt)
	07/06/19 13:59 EST		0	Source: Buoy
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TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- WASHINGTON DC (WASD2) [38.87, -77.02]				
	07/06/19 18:30 EST		0	Marine Thunderstorm Wind (MG 39 kt)
	07/06/19 18:36 EST		0	Source: Buoy
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TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- (DCA)REAGAN NATIONAL AIRPORT [38.86, -77.03]				
	07/06/19 18:31 EST		0	Marine Thunderstorm Wind (MG 41 kt)
	07/06/19 18:32 EST		0	Source: Buoy
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TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- NATIONALS PARK (WSHNP) [38.87, -77.01]				
	07/06/19 18:34 EST		0	Marine Thunderstorm Wind (MG 57 kt)
	07/06/19 18:39 EST		0	Source: Buoy
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CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- GREENBERRY POINT (GBY) [38.97, -76.46]				
	07/06/19 19:23 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	07/06/19 19:23 EST		0	Source: Buoy
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CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- TOLCHESTER MD (TCBM2) [39.32, -76.25]				
	07/06/19 19:48 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	07/06/19 19:48 EST		0	Source: Buoy
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TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- COBB POINT (COB) [38.24, -76.83]				
	07/06/19 22:17 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	07/06/19 22:27 EST		0	Source: Buoy

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<hr/>				
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- PINEY POINT (PPTM2) [38.13, -76.53]	07/06/19 22:54 EST	0		Marine Thunderstorm Wind (MG 35 kt)
	07/06/19 23:06 EST	0		Source: Buoy
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An approaching cold front coupled with upper level shortwave energy and instability across the region led to the development of afternoon scattered showers and thunderstorms. Several of these thunderstorms produced gusty winds over the waters.				
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TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- COBB POINT (COB) [38.24, -76.83]	07/08/19 10:32 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/08/19 10:47 EST	0		Source: Buoy
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TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- MONROE CREEK (MON) [38.23, -76.95]	07/08/19 10:35 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/08/19 10:35 EST	0		Source: Buoy
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TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- LEWISSETTA (LWS) [38.00, -76.47]	07/08/19 11:54 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/08/19 11:54 EST	0		Source: Buoy
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TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- LEWISSETTA MD (LWTV2) [38.00, -76.47]	07/08/19 11:54 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/08/19 11:54 EST	0		Source: Buoy
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A cluster of heavy rain and embedded thunderstorms traversed the waters during the late morning hours of July 8th, producing several strong wind gusts.				
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CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- GROVE POINT (GVP) [39.40, -76.04]	07/11/19 12:08 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/11/19 12:08 EST	0		Source: Buoy
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CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- GREENBERRY POINT (GBY) [38.97, -76.46]	07/11/19 16:03 EST	0		Marine Thunderstorm Wind (MG 36 kt)
	07/11/19 16:08 EST	0		Source: Buoy
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CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- HART MILLER ISLAND (HRT) [39.25, -76.37]	07/11/19 16:10 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/11/19 16:10 EST	0		Source: Buoy
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CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.3 SSW ANNAPOLIS (KNAK) [38.98, -76.48]	07/11/19 16:12 EST	0		Marine Thunderstorm Wind (MG 47 kt)
	07/11/19 16:30 EST	0		Source: Buoy
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CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- BAYSIDE ES (STVVL) [38.98, -76.31]	07/11/19 16:20 EST	0		Marine Thunderstorm Wind (MG 35 kt)
	07/11/19 16:20 EST	0		Source: Buoy
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CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- TOLCHESTER MD (TCBM2) [39.32, -76.25]	07/11/19 16:30 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/11/19 16:36 EST	0		Source: Buoy
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TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- QUANTICO (KNYG) [38.51, -77.30]	07/11/19 16:44 EST	0		Marine Thunderstorm Wind (MG 45 kt)
	07/11/19 16:44 EST	0		Source: Buoy
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TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- LEESYLVANIA STATE PARK (LSLVN) [38.67, -77.25]	07/11/19 16:46 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/11/19 16:46 EST	0		Source: Buoy

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
EASTERN BAY COUNTY --- STEVENSVILLE (D2030) [38.96, -76.31]				
	07/11/19 17:00 EST	0		Marine Thunderstorm Wind (MG 44 kt)
	07/11/19 17:00 EST	0		Source: Buoy
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 1.1 W POTOMAC LIGHT 33 (LT3) [38.34, -77.01]				
	07/11/19 17:24 EST	0		Marine Thunderstorm Wind (MG 37 kt)
	07/11/19 17:44 EST	0		Source: Buoy
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- POTOMAC LIGHT 33 (LT3) [38.34, -76.99]				
	07/11/19 17:24 EST	0		Marine Thunderstorm Wind (MG 43 kt)
	07/11/19 17:39 EST	0		Source: Buoy
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- CUCKOLD CREEK (CCK) [38.31, -76.93]				
	07/11/19 17:26 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/11/19 17:36 EST	0		Source: Buoy
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- BABAR POINT (BAB) [38.31, -77.03]				
	07/11/19 17:31 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/11/19 17:41 EST	0		Source: Buoy
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- COBB POINT (COB) [38.24, -76.83]				
	07/11/19 17:42 EST	0		Marine Thunderstorm Wind (MG 39 kt)
	07/11/19 18:07 EST	0		Source: Buoy
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- MONROE CREEK (MON) [38.23, -76.95]				
	07/11/19 17:45 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/11/19 17:45 EST	0		Source: Buoy
CHOPTANK RIVER TO CAMBRIDGE MD AND THE LITTLE CHOPTANK RIVER COUNTY --- BLACKWALNUT HARBOR (BWH) [38.68, -76.33]				
	07/11/19 17:57 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/11/19 18:02 EST	0		Source: Buoy
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- THOMAS POINT (TPLM2) [38.90, -76.44]				
	07/11/19 18:00 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/11/19 18:00 EST	0		Source: Buoy
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- ST INIGOES (KNUI) [38.13, -76.42]				
	07/11/19 18:14 EST	0		Marine Thunderstorm Wind (MG 35 kt)
	07/11/19 18:14 EST	0		Source: Buoy
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- PINEY POINT (PPTM2) [38.13, -76.53]				
	07/11/19 18:18 EST	0		Marine Thunderstorm Wind (MG 43 kt)
	07/11/19 18:36 EST	0		Source: Buoy
PATUXENT RIVER TO BROOMES ISLAND MD COUNTY --- 1.9 SE SOLOMONS ISLAND (SLIM2) [38.30, -76.43]				
	07/11/19 18:29 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/11/19 18:29 EST	0		Source: Buoy
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- LEWISSETTA (LWS) [38.00, -76.47]				
	07/11/19 18:30 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/11/19 18:30 EST	0		Source: Buoy
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- LEWISSETTA MD (LWTV2) [38.00, -76.47]				
	07/11/19 18:30 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/11/19 18:30 EST	0		Source: Buoy

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- POINT LOOKOUT (PTL) [38.04, -76.32]				
	07/11/19 18:42 EST	0		Marine Thunderstorm Wind (MG 36 kt)
	07/11/19 18:52 EST	0		Source: Buoy
CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- LOWER HOOPERS ISLAND (HPR) [38.26, -76.18]				
	07/11/19 18:43 EST	0		Marine Thunderstorm Wind (MG 42 kt)
	07/11/19 18:53 EST	0		Source: Buoy
TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.6 ESE BISHOPS HEAD (BISM2) [38.22, -76.03]				
	07/11/19 19:02 EST	0		Marine Thunderstorm Wind (MG 47 kt)
	07/11/19 19:12 EST	0		Source: Buoy
TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- BISHOPS HEAD (BISM2) [38.22, -76.04]				
	07/11/19 19:06 EST	0		Marine Thunderstorm Wind (MG 40 kt)
	07/11/19 19:12 EST	0		Source: Buoy
TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- CRISFIELD CG (CRS) [37.97, -75.88]				
	07/11/19 19:28 EST	0		Marine Thunderstorm Wind (MG 37 kt)
	07/11/19 19:33 EST	0		Source: Buoy
<p>A cold front approached from the west during the day of July 11th, with warm and moist air advection occurring on southerly flow. This promoted the development of significant amounts of instability, and that coupled with an approaching shortwave trough and modest shear values, led to the generation of scattered showers and thunderstorms, some of which produced gusty winds over the waters.</p>				
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- LEWISSETTA (LWS) [38.00, -76.47]				
	07/16/19 17:24 EST	0		Marine Thunderstorm Wind (MG 44 kt)
	07/16/19 17:42 EST	0		Source: Buoy
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- LEWISSETTA MD (LWTV2) [38.00, -76.47]				
	07/16/19 17:24 EST	0		Marine Thunderstorm Wind (MG 44 kt)
	07/16/19 17:42 EST	0		Source: Buoy
CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- POINT LOOKOUT (PTL) [38.04, -76.32]				
	07/16/19 17:37 EST	0		Marine Thunderstorm Wind (MG 45 kt)
	07/16/19 18:02 EST	0		Source: Buoy
CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- LOWER HOOPERS ISLAND (HPR) [38.26, -76.18]				
	07/16/19 18:08 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/16/19 18:18 EST	0		Source: Buoy
TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.7 SE BISHOPS HEAD (BISM2) [38.21, -76.03]				
	07/16/19 18:12 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/16/19 18:12 EST	0		Source: Buoy
TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- BISHOPS HEAD (BISM2) [38.22, -76.04]				
	07/16/19 18:12 EST	0		Marine Thunderstorm Wind (MG 35 kt)
	07/16/19 18:24 EST	0		Source: Buoy
TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- RACCOON POINT (RAC) [38.14, -75.79]				
	07/16/19 18:24 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/16/19 18:24 EST	0		Source: Buoy
<p>Increasing warmth and humidity promoted the development of instability across the region by the afternoon of July 16th. This led to the formation of a few showers and thunderstorms, some of which produced gusty winds across the waters.</p>				
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- QUANTICO (KNYG) [38.51, -77.30]				
	07/17/19 16:15 EST	0		Marine Thunderstorm Wind (MG 45 kt)
	07/17/19 16:15 EST	0		Source: Buoy

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TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- LEESYLVANIA STATE PARK (LSLVN) [38.67, -77.25]				
	07/17/19 16:21 EST	0		Marine Thunderstorm Wind (MG 51 kt)
	07/17/19 16:31 EST	0		Source: Buoy
TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- LONG BRANCH ES (ARLNL) [38.87, -77.09]				
	07/17/19 16:30 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/17/19 16:30 EST	0		Source: Buoy
TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- WASHINGTON DC (WASD2) [38.87, -77.02]				
	07/17/19 16:30 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/17/19 16:30 EST	0		Source: Buoy
TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- (DCA)REAGAN NATIONAL AIRPORT [38.86, -77.03]				
	07/17/19 16:32 EST	0		Marine Thunderstorm Wind (MG 44 kt)
	07/17/19 16:38 EST	0		Source: Buoy
TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 3.2 SSE ALEXANDRIA (D4370) [38.71, -77.03]				
	07/17/19 16:34 EST	0		Marine Thunderstorm Wind (MG 37 kt)
	07/17/19 16:34 EST	0		Source: Buoy
TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- LYLES-CROUCH ACADEMY (AXDRA) [38.80, -77.05]				
	07/17/19 16:34 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/17/19 16:34 EST	0		Source: Buoy
TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- NATIONALS PARK (WSHNP) [38.87, -77.01]				
	07/17/19 16:34 EST	0		Marine Thunderstorm Wind (MG 36 kt)
	07/17/19 16:34 EST	0		Source: Buoy
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- POTOMAC LIGHT 33 (LT3) [38.34, -76.99]				
	07/17/19 16:59 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/17/19 17:14 EST	0		Source: Buoy
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- ORIOLE PARK AT CAMDEN YARDS (BLTPC) [39.28, -76.62]				
	07/17/19 17:00 EST	0		Marine Thunderstorm Wind (MG 39 kt)
	07/17/19 17:10 EST	0		Source: Buoy
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- BABAR POINT (BAB) [38.31, -77.03]				
	07/17/19 17:01 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/17/19 17:01 EST	0		Source: Buoy
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- HAMPSTEAD HILL ACADEMY (BLMHH) [39.29, -76.58]				
	07/17/19 17:04 EST	0		Marine Thunderstorm Wind (MG 38 kt)
	07/17/19 17:20 EST	0		Source: Buoy
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- MARYLAND SCIENCE CENTER (BLMRE) [39.28, -76.61]				
	07/17/19 17:05 EST	0		Marine Thunderstorm Wind (MG 39 kt)
	07/17/19 17:05 EST	0		Source: Buoy
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- BALTIMORE (BLTM2) [39.27, -76.58]				
	07/17/19 17:06 EST	0		Marine Thunderstorm Wind (MG 36 kt)
	07/17/19 17:06 EST	0		Source: Buoy
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- HERRING BAY (HRB) [38.73, -76.54]				
	07/17/19 17:10 EST	0		Marine Thunderstorm Wind (MG 36 kt)
	07/17/19 17:15 EST	0		Source: Buoy

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CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- BAYSIDE ES (STVVL) [38.98, -76.31]				
	07/17/19 17:16 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/17/19 17:16 EST	0		Source: Buoy
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.3 SSW ANNAPOLIS (KNAK) [38.98, -76.48]				
	07/17/19 17:18 EST	0		Marine Thunderstorm Wind (MG 35 kt)
	07/17/19 17:24 EST	0		Source: Buoy
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- BALTIMORE KEY BRIDGE (FSKM2) [39.22, -76.53]				
	07/17/19 17:18 EST	0		Marine Thunderstorm Wind (MG 38 kt)
	07/17/19 17:18 EST	0		Source: Buoy
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- TOLLY POINT (TOL) [38.94, -76.44]				
	07/17/19 17:19 EST	0		Marine Thunderstorm Wind (MG 41 kt)
	07/17/19 17:39 EST	0		Source: Buoy
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- ANNAPOLIS (KNAK) [38.98, -76.48]				
	07/17/19 17:20 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/17/19 17:20 EST	0		Source: Buoy
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- GREENBERRY POINT (GBY) [38.97, -76.46]				
	07/17/19 17:23 EST	0		Marine Thunderstorm Wind (MG 40 kt)
	07/17/19 17:33 EST	0		Source: Buoy
CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- HART MILLER ISLAND (HRT) [39.25, -76.37]				
	07/17/19 17:25 EST	0		Marine Thunderstorm Wind (MG 40 kt)
	07/17/19 17:40 EST	0		Source: Buoy
CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- SANDY POINT (SPT) [39.01, -76.40]				
	07/17/19 17:25 EST	0		Marine Thunderstorm Wind (MG 40 kt)
	07/17/19 17:35 EST	0		Source: Buoy
CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- (KMTN)MARTIN STATE AIRPORT [39.33, -76.42]				
	07/17/19 17:26 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/17/19 17:26 EST	0		Source: Buoy
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- KENT ISLAND (KNT) [38.92, -76.36]				
	07/17/19 17:26 EST	0		Marine Thunderstorm Wind (MG 37 kt)
	07/17/19 17:36 EST	0		Source: Buoy
CHOPTANK RIVER TO CAMBRIDGE MD AND THE LITTLE CHOPTANK RIVER COUNTY --- 1.8 ESE BLACKWALNUT HARBOR (BWH) [38.67, -76.30]				
	07/17/19 17:32 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/17/19 17:32 EST	0		Source: Buoy
CHOPTANK RIVER TO CAMBRIDGE MD AND THE LITTLE CHOPTANK RIVER COUNTY --- BLACKWALNUT HARBOR (BWH) [38.68, -76.33]				
	07/17/19 17:32 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/17/19 17:32 EST	0		Source: Buoy
CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- TOLCHESTER MD (TCBM2) [39.32, -76.25]				
	07/17/19 17:36 EST	0		Marine Thunderstorm Wind (MG 45 kt)
	07/17/19 17:48 EST	0		Source: Buoy
EASTERN BAY COUNTY --- STEVENSVILLE (D2030) [38.96, -76.31]				
	07/17/19 17:46 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/17/19 17:46 EST	0		Source: Buoy

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- THOMAS POINT (TPLM2) [38.90, -76.44]				
	07/17/19 18:00 EST	0		Marine Thunderstorm Wind (MG 57 kt)
	07/17/19 18:00 EST		0	Source: Buoy
TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 5.6 N BISHOPS HEAD (BISM2) [38.30, -76.05]				
	07/17/19 19:05 EST	0		Marine Thunderstorm Wind (MG 51 kt)
	07/17/19 19:15 EST		0	Source: Buoy
TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- CRISFIELD CG (CRS) [37.97, -75.88]				
	07/17/19 21:53 EST	0		Marine Thunderstorm Wind (MG 41 kt)
	07/17/19 21:58 EST		0	Source: Buoy
TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- RACCOON POINT (RAC) [38.14, -75.79]				
	07/17/19 22:14 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/17/19 22:14 EST		0	Source: Buoy

On July 17th, the remnant circulation of Barry moved into Pennsylvania with a surface pressure trough out ahead of it over the Mid-Atlantic. Out ahead of the circulation, a hot, humid, and unstable air mass was in place, and this helped to initiate scattered to numerous showers and thunderstorms in the afternoon. Some of these thunderstorms produced gusty winds over the waters.

CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- POINT LOOKOUT (PTL) [38.04, -76.32]				
	07/18/19 19:40 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/18/19 19:55 EST		0	Source: Buoy

With hot and humid conditions in place on July 18th, a few showers and thunderstorms developed, one of which produced gusty winds over portions of the waters.

PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- MARYLAND SCIENCE CENTER (BLMRE) [39.28, -76.61]				
	07/21/19 19:40 EST	0		Marine Thunderstorm Wind (MG 36 kt)
	07/21/19 19:55 EST		0	Source: Buoy

PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- ORIOLE PARK AT CAMDEN YARDS (BLTPC) [39.28, -76.62]				
	07/21/19 19:50 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/21/19 19:55 EST		0	Source: Buoy

PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- HAMPSTEAD HILL ACADEMY (BLMHH) [39.29, -76.58]				
	07/21/19 19:55 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/21/19 19:55 EST		0	Source: Buoy

CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- (KMTN)MARTIN STATE AIRPORT [39.33, -76.42]				
	07/21/19 20:00 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/21/19 20:00 EST		0	Source: Buoy

CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- HART MILLER ISLAND (HRT) [39.25, -76.37]				
	07/21/19 20:05 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/21/19 20:15 EST		0	Source: Buoy

CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- GROVE POINT (GVP) [39.40, -76.04]				
	07/21/19 20:40 EST	0		Marine Thunderstorm Wind (MG 36 kt)
	07/21/19 20:50 EST		0	Source: Buoy

An upper level ridge that was in place began to break down during the afternoon hours of July 21st as a cold front moved through the Midwest and an upper-level trough dug into the northern Plains. This allowed additional moisture into the area and when combined with a weakening capping inversion from height falls it was enough for scattered showers and thunderstorms to develop. With substantial instability, some of these thunderstorms producing gusty winds over the waters.

CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- HART MILLER ISLAND (HRT) [39.25, -76.37]				
	07/22/19 14:55 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/22/19 15:20 EST		0	Source: Buoy

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- MARYLAND SCIENCE CENTER (BLMRE) [39.28, -76.61]				
	07/22/19 14:55 EST	0		Marine Thunderstorm Wind (MG 36 kt)
	07/22/19 14:55 EST	0		Source: Buoy
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- ORIOLE PARK AT CAMDEN YARDS (BLTPC) [39.28, -76.62]				
	07/22/19 15:00 EST	0		Marine Thunderstorm Wind (MG 40 kt)
	07/22/19 15:00 EST	0		Source: Buoy
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- BALTIMORE KEY BRIDGE (FSKM2) [39.22, -76.53]				
	07/22/19 15:06 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/22/19 15:06 EST	0		Source: Buoy
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- HAMPSTEAD HILL ACADEMY (BLMHH) [39.29, -76.58]				
	07/22/19 15:10 EST	0		Marine Thunderstorm Wind (MG 43 kt)
	07/22/19 15:10 EST	0		Source: Buoy
CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- PATUXENT RIVER ASOS (KNAK) [38.29, -76.41]				
	07/22/19 15:12 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/22/19 15:12 EST	0		Source: Buoy
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- PINEY POINT (PPTM2) [38.13, -76.53]				
	07/22/19 15:12 EST	0		Marine Thunderstorm Wind (MG 36 kt)
	07/22/19 15:18 EST	0		Source: Buoy
CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- (KMTN)MARTIN STATE AIRPORT [39.33, -76.42]				
	07/22/19 15:15 EST	0		Marine Thunderstorm Wind (MG 36 kt)
	07/22/19 15:15 EST	0		Source: Buoy
CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- GROVE POINT (GVP) [39.40, -76.04]				
	07/22/19 15:30 EST	0		Marine Thunderstorm Wind (MG 39 kt)
	07/22/19 15:45 EST	0		Source: Buoy
CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- TOLCHESTER MD (TCBM2) [39.32, -76.25]				
	07/22/19 15:30 EST	0		Marine Thunderstorm Wind (MG 37 kt)
	07/22/19 15:42 EST	0		Source: Buoy
CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- LOWER HOOPERS ISLAND (HPR) [38.26, -76.18]				
	07/22/19 15:36 EST	0		Marine Thunderstorm Wind (MG 41 kt)
	07/22/19 15:36 EST	0		Source: Buoy
TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 4.9 N BISHOPS HEAD (BISM2) [38.29, -76.03]				
	07/22/19 15:49 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/22/19 15:49 EST	0		Source: Buoy
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- QUANTICO (KNYG) [38.51, -77.30]				
	07/22/19 18:47 EST	0		Marine Thunderstorm Wind (MG 35 kt)
	07/22/19 18:47 EST	0		Source: Buoy
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- LEESYLVANIA STATE PARK (LSLVN) [38.67, -77.25]				
	07/22/19 19:01 EST	0		Marine Thunderstorm Wind (MG 41 kt)
	07/22/19 19:06 EST	0		Source: Buoy
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- POTOMAC LIGHT 33 (LT3) [38.34, -76.99]				
	07/22/19 19:03 EST	0		Marine Thunderstorm Wind (MG 36 kt)
	07/22/19 19:13 EST	0		Source: Buoy

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 1.0 W POTOMAC LIGHT 33 (LT3) [38.34, -77.01]				
	07/22/19 19:04 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/22/19 19:04 EST		0	Source: Buoy
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.3 WSW POTOMAC LIGHT 33 (LT3) [38.34, -77.00]				
	07/22/19 19:05 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/22/19 19:05 EST		0	Source: Buoy
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- CUCKOLD CREEK (CCK) [38.31, -76.93]				
	07/22/19 19:11 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/22/19 19:16 EST		0	Source: Buoy
TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 3.3 SSE ALEXANDRIA (D4370) [38.71, -77.02]				
	07/22/19 19:19 EST	0		Marine Thunderstorm Wind (MG 44 kt)
	07/22/19 19:19 EST		0	Source: Buoy
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- COBB POINT (COB) [38.24, -76.83]				
	07/22/19 19:22 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/22/19 19:27 EST		0	Source: Buoy
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- TOLLY POINT (TOL) [38.94, -76.44]				
	07/22/19 19:59 EST	0		Marine Thunderstorm Wind (MG 43 kt)
	07/22/19 20:04 EST		0	Source: Buoy
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- THOMAS POINT (TPLM2) [38.90, -76.44]				
	07/22/19 20:00 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/22/19 20:00 EST		0	Source: Buoy
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- LEWISSETTA (LWS) [38.00, -76.47]				
	07/22/19 22:00 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/22/19 22:00 EST		0	Source: Buoy
CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- POINT LOOKOUT (PTL) [38.04, -76.32]				
	07/22/19 22:05 EST	0		Marine Thunderstorm Wind (MG 50 kt)
	07/22/19 22:15 EST		0	Source: Buoy
TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- CRISFIELD CG (CRS) [37.97, -75.88]				
	07/22/19 22:27 EST	0		Marine Thunderstorm Wind (MG 46 kt)
	07/22/19 23:12 EST		0	Source: Buoy
TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- BISHOPS HEAD (BISM2) [38.22, -76.04]				
	07/22/19 22:30 EST	0		Marine Thunderstorm Wind (MG 41 kt)
	07/22/19 22:54 EST		0	Source: Buoy
TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- LOWER HOOPERS ISLAND (HPR) [38.26, -76.18]				
	07/22/19 22:31 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/22/19 22:51 EST		0	Source: Buoy
TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- RACCOON POINT (RAC) [38.14, -75.79]				
	07/22/19 22:35 EST	0		Marine Thunderstorm Wind (MG 45 kt)
	07/22/19 22:55 EST		0	Source: Buoy
TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- CRISFIELD CG (CRS) [37.97, -75.88]				
	07/22/19 23:17 EST	0		Marine Thunderstorm Wind (MG 45 kt)
	07/22/19 23:52 EST		0	Source: Buoy

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- POINT LOOKOUT (PTL) [38.04, -76.32]				
	07/22/19 23:20 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/22/19 23:25 EST	0		Source: Buoy
CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- LOWER HOOPERS ISLAND (HPR) [38.26, -76.18]				
	07/22/19 23:21 EST	0		Marine Thunderstorm Wind (MG 36 kt)
	07/22/19 23:41 EST	0		Source: Buoy
TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- RACCOON POINT (RAC) [38.14, -75.79]				
	07/22/19 23:30 EST	0		Marine Thunderstorm Wind (MG 42 kt)
	07/22/19 23:55 EST	0		Source: Buoy
TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 3.5 ESE BISHOPS HEAD (BISM2) [38.20, -75.98]				
	07/22/19 23:42 EST	0		Marine Thunderstorm Wind (MG 43 kt)
	07/22/19 23:42 EST	0		Source: Buoy
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- BALTIMORE KEY BRIDGE (FSKM2) [39.22, -76.53]				
	07/23/19 01:48 EST	0		Marine Thunderstorm Wind (MG 36 kt)
	07/23/19 01:54 EST	0		Source: Buoy
CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- HART MILLER ISLAND (HRT) [39.25, -76.37]				
	07/23/19 02:00 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/23/19 02:05 EST	0		Source: Buoy
CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- TOLCHESTER MD (TCBM2) [39.32, -76.25]				
	07/23/19 02:18 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/23/19 02:18 EST	0		Source: Buoy
<p>Falling heights, an increasing southwest flow aloft, an approaching cold front, and strengthening pressure trough overhead combined with instability from a hot and humid air mass in place to trigger showers and thunderstorms during the afternoon hours of July 22nd. With high levels of CAPE and increased shear profiles, thunderstorms became strong to severe as they organized into linear structures, and produced gusty winds over the waters.</p>				
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.9 NNW THOMAS POINT (TPLM2) [38.91, -76.45]				
	07/23/19 18:05 EST	0		Waterspout
	07/23/19 18:05 EST	0		Source: Trained Spotter
<p>A thin waterspout was reported by a local mariner.</p> <p>Local convergence and the warm waters of the Chesapeake Bay produced localized showers across portions of the Chesapeake Bay. One of these showers produced a waterspout.</p>				
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- LEWISSETTA (LWS) [38.00, -76.47]				
	07/31/19 14:36 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/31/19 14:36 EST	0		Source: Buoy
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- LEWISSETTA MD (LWTV2) [38.00, -76.47]				
	07/31/19 14:36 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/31/19 14:36 EST	0		Source: Buoy
TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- CRISFIELD CG (CRS) [37.97, -75.88]				
	07/31/19 17:01 EST	0		Marine Thunderstorm Wind (MG 44 kt)
	07/31/19 17:11 EST	0		Source: Buoy
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- PINEY POINT (PPTM2) [38.13, -76.53]				
	07/31/19 17:12 EST	0		Marine Thunderstorm Wind (MG 39 kt)
	07/31/19 17:18 EST	0		Source: Buoy

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- LEWISSETTA (LWS) [38.00, -76.47]				
	07/31/19 17:18 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	07/31/19 17:24 EST		0	Source: Buoy
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- LEWISSETTA MD (LWTV2) [38.00, -76.47]				
	07/31/19 17:18 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	07/31/19 17:24 EST		0	Source: Buoy
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.2 S ANNAPOLIS (KNAK) [38.98, -76.48]				
	07/31/19 17:36 EST		0	Marine Thunderstorm Wind (MG 39 kt)
	07/31/19 17:54 EST		0	Source: Buoy
CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- SANDY POINT (SPT) [39.01, -76.40]				
	07/31/19 18:15 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	07/31/19 18:15 EST		0	Source: Buoy
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- GREENBERRY POINT (GBY) [38.97, -76.46]				
	07/31/19 18:22 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	07/31/19 18:22 EST		0	Source: Buoy

A surface front moved slowly through the Ohio Valley on the afternoon of July 31st, with a secondary surface trough positioned just east of the I-95 corridor. Aloft, an upper level trough slowly moved across the region. As instability increased during the afternoon hours, scattered showers and thunderstorms developed, and a few brought gusty winds to portions of the waters.

DISTRICT OF COLUMBIA

DISTRICT OF COLUMBIA COUNTY --- 0.5 E MOUNT PLEASANT [38.93, -77.04]				
	07/06/19 18:25 EST		0	Thunderstorm Wind (EG 61 kt)
	07/06/19 18:25 EST		0	Source: Broadcast Media

Multiple large trees were blown down across 16th Street Northwest in the Adams Morgan and Columbia Heights area, including one near the intersection of 16th Street Northwest and Columbia Road Northwest, and another onto a bus near the intersection of 16th Street Northwest and Spring Street Northwest. A few other trees and numerous large branches were blown down across northwest DC, including near Rock Creek Park.

DISTRICT OF COLUMBIA COUNTY --- 1.8 SW BROOKLAND [38.91, -77.02]				
	07/06/19 18:39 EST		0	Thunderstorm Wind (MG 57 kt)
	07/06/19 18:39 EST		0	Source: Emergency Manager

Approximately four dozen trees were blown down from just north of downtown DC into southeast DC and Anacostia, with some onto cars and houses. DC-295 was also blocked by downed trees. A wind gust to 57 knots (66 mph) was measured at Nationals Park.

An approaching cold front coupled with upper level shortwave energy and instability across the region led to the development of afternoon scattered showers and thunderstorms. Several of these thunderstorms became severe.

DISTRICT OF COLUMBIA COUNTY --- 2.4 SSE DALECARLIA RESERVOIR [38.92, -77.10], 2.2 SSE DALECARLIA RESERVOIR [38.92, -77.10], 2.2 SSE DALECARLIA RESERVOIR [38.92, -77.10], 2.4 SSE DALECARLIA RESERVOIR [38.92, -77.10]				
	07/08/19 07:58 EST		0.50M	Flash Flood (due to Heavy Rain)
	07/08/19 12:00 EST		0	Source: Broadcast Media

Numerous vehicles were submerged on Canal Road NW near Fletches Cove Boathouse. Drivers were stranded on vehicle roof tops. Some swam to safety and others were escorted to safety by Fire and EMS.

DISTRICT OF COLUMBIA COUNTY --- 1.9 SSE DALECARLIA RESERVOIR [38.92, -77.11], 1.8 SSE DALECARLIA RESERVOIR [38.93, -77.10], 1.7 SSE DALECARLIA RESERVOIR [38.93, -77.11], 1.8 SSE DALECARLIA RESERVOIR [38.93, -77.11]				
	07/08/19 08:28 EST		0	Flood (due to Heavy Rain)
	07/08/19 13:28 EST		0	Source: Law Enforcement

Arizona Avenue NW was closed due to flooding between Canal Road and Macarthur Boulevard.

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A nearly stationary boundary set up near the Potomac River weak low pressure developed along the boundary. There was plenty of moisture in place from the Atlantic and Gulf of Mexico, and this combined with instability to produce very heavy rainfall rates in convection that developed. Convection was maximized around the boundary across around Washington DC, and this led to several instances of flooding and flash flooding.

DISTRICT OF COLUMBIA COUNTY --- 0.3 ESE WALTER REED [38.98, -77.02]

07/11/19 14:55 EST	0	Thunderstorm Wind (EG 50 kt)
07/11/19 14:55 EST	0	Source: Local Official

A tree was blown down near the intersection of 16th Street Northwest and Varnum Street Northwest. A tree was also blown down in the 7300 block of 8th Street Northwest.

A cold front approached from the west during the day of July 11th, with warm and moist air advection occurring on southerly flow. This promoted the development of significant amounts of instability, and that coupled with an approaching shortwave trough and modest shear values, led to the generation of scattered showers and thunderstorms, some of which became severe.

(DC-Z001) DISTRICT OF COLUMBIA

07/17/19 10:00 EST	0	Heat
07/17/19 17:21 EST	0	

Temperatures in the 90s combined with dew points in the lower 70s to create heat index values in excess of 105 degrees.

DISTRICT OF COLUMBIA COUNTY --- 0.5 W TENLEYTOWN [38.95, -77.08]

07/17/19 16:25 EST	0	Thunderstorm Wind (EG 50 kt)
07/17/19 16:25 EST	0	Source: Public

A tree was blown down onto power lines at 43rd Street Northwest and Yuma Street Northwest.

On July 17th, the remnant circulation of Barry moved into Pennsylvania with a surface pressure trough out ahead of it over the Mid-Atlantic. Out ahead of the circulation, a hot, humid, and unstable air mass was in place, and this helped to initiate scattered to numerous showers and thunderstorms in the afternoon. Some of these thunderstorms became strong to locally severe.

(DC-Z001) DISTRICT OF COLUMBIA

07/19/19 10:00 EST	0	Heat
07/19/19 20:00 EST	0	

Temperatures from the mid 90s to near 100 degrees combined with dew points near 70 degrees to create dangerously high heat index values.

(DC-Z001) DISTRICT OF COLUMBIA

07/20/19 10:00 EST	0	Excessive Heat
07/20/19 20:00 EST	0	

Temperatures from the mid 90s to the lower 100s combined with dew points near 70 degrees to create dangerously high heat index values.

(DC-Z001) DISTRICT OF COLUMBIA

07/21/19 10:00 EST	0	Excessive Heat
07/21/19 20:00 EST	0	

Temperatures from the mid 90s to around 100 degrees combined with dew points in the 70s to create dangerously high heat index values.

DISTRICT OF COLUMBIA COUNTY --- 0.9 SW GEORGETOWN [38.91, -77.06]

07/22/19 19:34 EST	0	Thunderstorm Wind (EG 50 kt)
07/22/19 19:34 EST	0	Source: Fire Department/Rescue

A tree was blown down on a car in the 3000 block of Reservoir Road Northwest.

DISTRICT OF COLUMBIA COUNTY --- 0.5 W MOUNT PLEASANT [38.93, -77.06]

07/22/19 19:37 EST	0	Thunderstorm Wind (EG 50 kt)
07/22/19 19:37 EST	0	Source: Fire Department/Rescue

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A tree was blown down on a house in the 3000 block of Macomb Street Northwest.				
DISTRICT OF COLUMBIA COUNTY --- 1.3 WSW BROOKLAND [38.92, -77.02]				
	07/22/19 19:38 EST		0	Thunderstorm Wind (MG 50 kt)
	07/22/19 19:38 EST		0	Source: Mesonet
A 50 knot (58 mph) wind gust was measured at Howard Univeristy.				
<p>Falling heights, an increasing southwest flow aloft, an approaching cold front, and strengthening pressure trough overhead combined with instability from a hot and humid air mass in place to trigger showers and thunderstorms during the afternoon hours of July 22nd. With high levels of CAPE and increased shear profiles, thunderstorms became strong to severe as they organized into linear structures.</p>				
MARYLAND, Central				
MONTGOMERY COUNTY --- 0.9 NE TRAVILAH [39.08, -77.26]				
	07/02/19 15:45 EST		0	Thunderstorm Wind (EG 50 kt)
	07/02/19 15:45 EST		0	Source: Emergency Manager
A tree was blown down on power lines at the intersection of Travilah Road and Turkey Foot Road.				
MONTGOMERY COUNTY --- 0.7 S MONTGOMERY VLG [39.16, -77.18]				
	07/02/19 16:00 EST		0	Thunderstorm Wind (EG 50 kt)
	07/02/19 16:00 EST		0	Source: Public
A tree was blown down on Midcounty Highway between Goshen Road and Woodfield Road.				
MONTGOMERY COUNTY --- ROCKVILLE [39.08, -77.15]				
	07/02/19 16:00 EST		0	Thunderstorm Wind (EG 50 kt)
	07/02/19 16:00 EST		0	Source: Trained Spotter
A tree was snapped in half at the Rockville WMATA Metro station.				
MONTGOMERY COUNTY --- 1.1 E OLNEY [39.15, -77.05]				
	07/02/19 16:04 EST		0	Thunderstorm Wind (EG 50 kt)
	07/02/19 16:04 EST		0	Source: Fire Department/Rescue
A tree was blown down on a house in the 17900 block of Shotley Bridge Place.				
PRINCE GEORGE'S COUNTY --- 0.5 E COLLINGTON [38.97, -76.76]				
	07/02/19 16:39 EST		0	Thunderstorm Wind (EG 50 kt)
	07/02/19 16:39 EST		0	Source: State Official
A tree was blown down at the intersection of Old Annapolis Road and Collington Road. Wires were also blown down in the 9800 block of Franklin Avenue and in the 12400 block of Canfield Lane.				
WASHINGTON COUNTY --- 0.7 N LEITERSBURG [39.71, -77.62]				
	07/02/19 17:07 EST		0	Thunderstorm Wind (EG 61 kt)
	07/02/19 17:07 EST		0	Source: Emergency Manager
Numerous trees were blown into power lines along Battletown Road and Strite Road.				
FREDERICK COUNTY --- 0.9 SE LOYS [39.59, -77.34]				
	07/02/19 17:32 EST		0	Thunderstorm Wind (EG 50 kt)
	07/02/19 17:32 EST		0	Source: State Official
A tree was blown down near the intersection of New Cut Road and Longs Mill Road.				
FREDERICK COUNTY --- 1.8 NW UNIONVILLE [39.50, -77.20]				

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/02/19 17:47 EST		0	Thunderstorm Wind (EG 50 kt)
	07/02/19 17:47 EST		0	Source: State Official
A tree was blown down near the intersection of Bessie Clemson Road and Coppermine Road.				
<hr/>				
FREDERICK COUNTY --- 1.1 E UNIONVILLE [39.48, -77.16]	07/02/19 17:51 EST		0	Thunderstorm Wind (EG 50 kt)
	07/02/19 17:51 EST		0	Source: State Official
A tree was blown down in the 9000 block of Albaugh Road.				
<hr/>				
CARROLL COUNTY --- 1.5 NNW SHERVETTES CORNER [39.42, -76.91]	07/02/19 18:05 EST		0	Thunderstorm Wind (EG 61 kt)
	07/02/19 18:05 EST		0	Source: Trained Spotter
Multiple trees and power lines down on Hamilton Court northeast of Eldersburg.				
<hr/>				
HOWARD COUNTY --- 1.4 N LISBON [39.35, -77.07]	07/02/19 18:06 EST		0	Thunderstorm Wind (EG 50 kt)
	07/02/19 18:06 EST		0	Source: Emergency Manager
A tree was blown down in the 3600 block of Woodbine Road.				
<hr/>				
BALTIMORE COUNTY --- 1.5 SSW BEREAN [39.55, -76.74]	07/02/19 18:14 EST		0	Thunderstorm Wind (EG 50 kt)
	07/02/19 18:14 EST		0	Source: Emergency Manager
A tree was blown down at the intersection of Falls Road and Black Road Road.				
<hr/>				
MONTGOMERY COUNTY --- 1.3 WNW GOSHEN [39.21, -77.20]	07/02/19 18:27 EST		0	Thunderstorm Wind (EG 50 kt)
	07/02/19 18:27 EST		0	Source: Emergency Manager
A tree was blown down onto wires in the 21600 block of Goshen Oaks Road.				
<hr/>				
HOWARD COUNTY --- 1.3 ESE DAISY [39.29, -77.05]	07/02/19 18:28 EST		0	Thunderstorm Wind (EG 50 kt)
	07/02/19 18:28 EST		0	Source: Emergency Manager
Several trees were blown down near the intersection of Union Chapel Road and McNeal Road.				
<hr/>				
MONTGOMERY COUNTY --- 0.9 SE LAYTONSVILLE [39.21, -77.14]	07/02/19 18:35 EST		0	Thunderstorm Wind (EG 50 kt)
	07/02/19 18:35 EST		0	Source: Emergency Manager
Multiple reports of trees and power lines down in Laytonsville.				
<hr/>				
MONTGOMERY COUNTY --- SANDY SPG [39.15, -77.03]	07/02/19 18:40 EST		0	Thunderstorm Wind (EG 50 kt)
	07/02/19 18:40 EST		0	Source: Emergency Manager
Multiple trees and power lines were reported down in the Sandy Spring area.				
<hr/>				
HARFORD COUNTY --- 2.6 NE MADONNA [39.65, -76.49]	07/02/19 18:45 EST		0	Thunderstorm Wind (EG 50 kt)
	07/02/19 18:45 EST		0	Source: State Official
Three trees were blown down on Madonna Road. A tree was also blown down on St. Clair Bridge Road at MD-165.				
<hr/>				
HARFORD COUNTY --- 0.9 SE PLEASANTVILLE [39.56, -76.42]	07/02/19 18:55 EST		0	Thunderstorm Wind (EG 50 kt)
	07/02/19 18:55 EST		0	Source: State Official

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A tree was blown down onto wires along Ingleside Road.				
PRINCE GEORGE'S COUNTY --- 1.3 ESE BOWIE [38.99, -76.76]				
	07/02/19 19:07 EST		0	Thunderstorm Wind (EG 50 kt)
	07/02/19 19:07 EST		0	Source: State Official
A tree was blown down in the 3900 block of Winchester Lane.				
PRINCE GEORGE'S COUNTY --- 0.9 SW SEABROOK [38.96, -76.86]				
	07/02/19 19:08 EST		0	Thunderstorm Wind (EG 50 kt)
	07/02/19 19:08 EST		0	Source: State Official
A tree was blown down onto wires in the 8600 block of Old Brown's Lane.				
HARFORD COUNTY --- 0.5 W SWAN CREEK [39.52, -76.14]				
	07/02/19 19:23 EST		0	Thunderstorm Wind (EG 61 kt)
	07/02/19 19:23 EST		0	Source: State Official
A large tree was blown down into a residence on Pine Street in Havre de Grace. A tree was also blown down onto wires on Oakington Road near US-40.				
Increasing temperatures and low level moisture led to developing instability across the region during the day of July 2nd. The strongest mid-level forcing remained to the north across northern PA/OH where a stationary boundary lingered. However a weak upper level shortwave trough moving through did help showers and scattered thunderstorms to develop across the state, and given the instability a few became severe.				
PRINCE GEORGE'S COUNTY --- 1.3 ENE COLLINGTON [38.98, -76.75]				
	07/04/19 12:47 EST		0	Thunderstorm Wind (EG 50 kt)
	07/04/19 12:47 EST		0	Source: State Official
Large tree limbs were blown down onto power lines in the 3500 block of Madonna Lane.				
CARROLL COUNTY --- 0.9 NW ALESIA [39.69, -76.84]				
	07/04/19 13:11 EST		0	Thunderstorm Wind (EG 50 kt)
	07/04/19 13:11 EST		0	Source: State Official
A tree was blown down near the intersection of Alesia Lineboro Road and Schalk 1 Road.				
CHARLES COUNTY --- 1.8 SE MARSHALL HALL [38.66, -77.08]				
	07/04/19 15:42 EST		0	Thunderstorm Wind (EG 50 kt)
	07/04/19 15:42 EST		0	Source: State Official
Several trees and large branches were blown down near the intersection of Marshall Hall Road and Fenwick Road, as well as Barry's Hill Road and Bird Wing Place.				
Heat and plentiful low level moisture led to the development of instability and therefore scattered showers and thunderstorms during the afternoon of July 4th. While forcing was limited, some of the thunderstorms did briefly become pulse severe.				
FREDERICK COUNTY --- 3.5 ESE PARK MILLS [39.28, -77.36]				
	07/06/19 18:15 EST		0	Thunderstorm Wind (EG 50 kt)
	07/06/19 18:15 EST		0	Source: State Official
A tree was blown down in the 1600 block of Thurston Road.				
MONTGOMERY COUNTY --- 1.3 ESE COMUS [39.24, -77.33]				
	07/06/19 18:20 EST		0	Thunderstorm Wind (EG 50 kt)
	07/06/19 18:20 EST		0	Source: State Official
A tree was blown down in the 23500 block of Peachtree Road.				
MONTGOMERY COUNTY --- 1.3 WSW WESTMORE [39.09, -77.17]				
	07/06/19 18:20 EST		0	Thunderstorm Wind (EG 50 kt)
	07/06/19 18:20 EST		0	Source: State Official

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A tree was blown down in the 700 block of Smallwood Road. A tree was also blown down in the 500 block of Monroe Street.				
WASHINGTON COUNTY --- 1.9 SSW RINGGOLD [38.69, -77.58]				
	07/06/19 18:20 EST		0	Thunderstorm Wind (EG 50 kt)
	07/06/19 18:20 EST		0	Source: State Official
A tree was blown down in the 13000 block of Newcomer Road.				
MONTGOMERY COUNTY --- 1.4 N FRIENDSHIP HGTS [38.99, -77.08]				
	07/06/19 18:22 EST		0	Thunderstorm Wind (EG 50 kt)
	07/06/19 18:22 EST		0	Source: State Official
A tree was blown down in the 7100 block of Edgevale Street.				
PRINCE GEORGE'S COUNTY --- 0.7 N RIVERDALE [38.96, -76.95]				
	07/06/19 18:38 EST		0	Thunderstorm Wind (EG 50 kt)
	07/06/19 18:38 EST		0	Source: State Official
Multiple trees and wires were blown down in the Hyattsville area.				
PRINCE GEORGE'S COUNTY --- 0.5 W UPPER MARLBORO [38.82, -76.76]				
	07/06/19 19:14 EST		0	Thunderstorm Wind (EG 50 kt)
	07/06/19 19:14 EST		0	Source: State Official
Trees and wires were blown down in the Upper Marlboro area.				
CHARLES COUNTY --- 1.3 ESE MATTAWOMAN [38.64, -76.86]				
	07/06/19 19:35 EST		0	Thunderstorm Wind (EG 50 kt)
	07/06/19 19:35 EST		0	Source: Emergency Manager
A tree was blown down at a residence with damage to a barn in the Waldorf area.				
An approaching cold front coupled with upper level shortwave energy and instability across the region led to the development of afternoon scattered showers and thunderstorms. Several of these thunderstorms became severe.				
FREDERICK COUNTY --- 2.1 NNW BRADDOCK HGTS [39.46, -77.51], 1.6 NW BRADDOCK HGTS [39.45, -77.52], 1.2 NNW BRADDOCK HGTS [39.45, -77.51], 2.0 N BRADDOCK HGTS [39.46, -77.50]				
	07/08/19 05:55 EST		0	Flood (due to Heavy Rain)
	07/08/19 08:55 EST		0	Source: Department of Highways
Hollow Road was flooded and closed between Valley View Road and Route 40.				
FREDERICK COUNTY --- 1.1 S YELLOW SPGS [39.46, -77.47], 0.8 S CERESVILLE [39.44, -77.37], 2.0 E BUCKEYSTOWN [39.33, -77.39], 1.4 E JEFFERSON [39.37, -77.50]				
	07/08/19 06:13 EST		0	Flash Flood (due to Heavy Rain)
	07/08/19 08:45 EST		0	Source: Law Enforcement
Numerous roads were flooded and impassable in the city of Frederick.				
FREDERICK COUNTY --- 1.5 SSW CREAGERSTOWN [39.56, -77.38], 1.8 SW CREAGERSTOWN [39.56, -77.39], 1.5 WSW CREAGERSTOWN [39.57, -77.39], 1.0 SW CREAGERSTOWN [39.57, -77.39]				
	07/08/19 06:14 EST		0	Flood (due to Heavy Rain)
	07/08/19 08:14 EST		0	Source: Department of Highways
Wilhide road was closed between Blacks Mill Road and Stevens Road.				
FREDERICK COUNTY --- 3.4 NW ST ANTHONY [39.72, -77.39], 3.4 NW ST ANTHONY [39.72, -77.39], 3.5 NW ST ANTHONY [39.72, -77.39], 3.4 NW ST ANTHONY [39.72, -77.39]				
	07/08/19 06:18 EST		0	Flood (due to Heavy Rain)
	07/08/19 08:18 EST		0	Source: Department of Highways
Hornets Nest Road was flooded and closed near Friends Creek.				

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MONTGOMERY COUNTY --- 0.5 E BARNESVILLE [39.22, -77.37], 0.9 E BARNESVILLE [39.22, -77.36], 0.9 E BARNESVILLE [39.22, -77.36], 0.6 ENE BARNESVILLE [39.22, -77.37]				
	07/08/19 06:48 EST	0		Flash Flood (due to Heavy Rain)
	07/08/19 11:00 EST	0		Source: Fire Department/Rescue
A vehicle was stuck in high water at the intersection of West Old Baltimore Road and Barnesville Road.				
MONTGOMERY COUNTY --- 1.5 SE BOYDS [39.16, -77.30], 1.5 SE BOYDS [39.16, -77.30], 1.6 SE BOYDS [39.16, -77.30], 1.5 SSE BOYDS [39.16, -77.30]				
	07/08/19 06:51 EST	0		Flash Flood (due to Heavy Rain)
	07/08/19 11:00 EST	0		Source: Fire Department/Rescue
A vehicle was stuck in high water at the intersection of Cornflower Road and Kings Crossing Boulevard.				
MONTGOMERY COUNTY --- 1.2 ESE BARNESVILLE [39.22, -77.36], 1.4 E BARNESVILLE [39.22, -77.35], 1.5 ESE BARNESVILLE [39.21, -77.35], 1.2 ESE BARNESVILLE [39.21, -77.36]				
	07/08/19 06:52 EST	0		Flash Flood (due to Heavy Rain)
	07/08/19 11:00 EST	0		Source: Fire Department/Rescue
Water was stuck in high water near the intersection of Peach tree Road and Barnesville Road.				
FREDERICK COUNTY --- 2.2 WNW FREDERICK [39.44, -77.45], 1.0 SSW CERESVILLE [39.44, -77.38], 0.4 NE REELS MILL [39.37, -77.38], 0.3 N FEAGAVILLE [39.38, -77.48]				
	07/08/19 07:00 EST	0		Flood (due to Heavy Rain)
	07/08/19 09:00 EST	0		Source: Emergency Manager
Numerous roads were flooded throughout the city of Frederick, including along portions of North Market and West Patrick Streets.				
MONTGOMERY COUNTY --- 1.2 ESE DARNESTOWN [39.09, -77.28], 1.4 ESE DARNESTOWN [39.09, -77.27], 1.4 ESE DARNESTOWN [39.09, -77.27], 1.2 ESE DARNESTOWN [39.09, -77.28]				
	07/08/19 07:09 EST	0		Flash Flood (due to Heavy Rain)
	07/08/19 11:00 EST	0		Source: Fire Department/Rescue
A vehicle was stuck in the water at the intersection of Turkey Foot Road and Falling Leaf Drive.				
MONTGOMERY COUNTY --- 1.4 S QUINCE ORCHARD [39.10, -77.25], 1.5 S QUINCE ORCHARD [39.10, -77.25], 1.5 S QUINCE ORCHARD [39.10, -77.25], 1.4 S QUINCE ORCHARD [39.10, -77.25]				
	07/08/19 07:09 EST	0		Flash Flood (due to Heavy Rain)
	07/08/19 11:00 EST	0		Source: Fire Department/Rescue
A vehicle was stuck in high water at the intersection of Wonder View Way and Quince Orchard Road.				
MONTGOMERY COUNTY --- 1.9 E DAWSONVILLE [39.13, -77.31], 0.7 N SENECA [39.09, -77.33], 0.8 NW SENECA [39.09, -77.34], 1.7 S DAWSONVILLE [39.11, -77.35], 0.7 ENE DAWSONVILLE [39.13, -77.34]				
	07/08/19 07:40 EST	0		Flood (due to Heavy Rain)
	07/08/19 20:56 EST	0		Source: River/Stream Gage
The Creek level rose above flood state of 7.5 feet at 7:40 AM EST and it crested at 11.73 feet at 9:30 AM EST. Water from the creek entered the gage house. Multiple roads were flooded and water also reached the first floor of Old Black Rock Mill.				
MONTGOMERY COUNTY --- 0.3 NNW BETHESDA [38.97, -77.12], 0.6 W GLEN ECHO [38.97, -77.14], 0.4 SW GLEN ECHO [38.97, -77.14], 0.4 ENE BETHESDA [38.97, -77.11]				
	07/08/19 08:09 EST	0		Flash Flood (due to Heavy Rain)
	07/08/19 11:00 EST	0		Source: Trained Spotter
Goldsboro Road was closed due to high water. Multiple vehicles were stranded in high water around the area.				
MONTGOMERY COUNTY --- 0.3 ENE ROCKVILLE [39.08, -77.15], 0.2 ENE ROCKVILLE [39.08, -77.15], 0.3 ENE ROCKVILLE [39.08, -77.15], 0.3 ENE ROCKVILLE [39.08, -77.14]				
	07/08/19 08:25 EST	0		Flood (due to Heavy Rain)
	07/08/19 10:25 EST	0		Source: Department of Highways
MD 28 was closed at MD 355 due to high water.				

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MONTGOMERY COUNTY --- 1.3 ESE CLARKSBURG [39.22, -77.26], 1.3 ESE CLARKSBURG [39.22, -77.26], 1.1 ESE CLARKSBURG [39.22, -77.26], 1.2 ESE CLARKSBURG [39.22, -77.26]				
	07/08/19 08:25 EST		0	Flash Flood (due to Heavy Rain)
	07/08/19 11:00 EST		0	Source: Broadcast Media
Newcut Road was washed out near the intersection with Frederick Road.				
MONTGOMERY COUNTY --- 0.8 WSW EMERY CORNERS [38.98, -77.18], 0.4 SSW EMERY CORNERS [38.98, -77.17], 0.2 NW CABIN JOHN [38.97, -77.17], 0.6 W CABIN JOHN [38.97, -77.18]				
	07/08/19 08:29 EST		0	Flash Flood (due to Heavy Rain)
	07/08/19 11:00 EST		0	Source: Emergency Manager
Multiple vehicles were stranded in high water on Clara Barton Barkway under Interstate 495.				
FREDERICK COUNTY --- 0.7 NE PLEASANT VIEW [39.29, -77.49], 0.7 NE PLEASANT VIEW [39.29, -77.49], 0.8 NE PLEASANT VIEW [39.29, -77.49], 0.8 NE PLEASANT VIEW [39.29, -77.49]				
	07/08/19 08:55 EST		0	Flood (due to Heavy Rain)
	07/08/19 10:55 EST		0	Source: Public
Water was over Pleasant View Road near Tuscarora Creek and the road was impassable.				
MONTGOMERY COUNTY --- 1.0 W PARKWOOD [39.02, -77.10], 0.9 W PARKWOOD [39.02, -77.10], 0.9 W PARKWOOD [39.02, -77.10], 1.0 W PARKWOOD [39.02, -77.10]				
	07/08/19 09:03 EST		0	Flash Flood (due to Heavy Rain)
	07/08/19 12:00 EST		0	Source: Emergency Manager
A water rescue occurred along Beach Drive and Franklin Street.				
MONTGOMERY COUNTY --- 1.4 WNW CARDEROCK [38.99, -77.22], 1.3 WNW CARDEROCK [38.99, -77.22], 1.3 WNW CARDEROCK [38.99, -77.22], 1.4 WNW CARDEROCK [38.99, -77.22]				
	07/08/19 09:10 EST		10K	Flash Flood (due to Heavy Rain)
	07/08/19 12:00 EST		0	Source: Fire Department/Rescue
A large sink hole developed on Belfast Road due to flash flooding.				
HOWARD COUNTY --- 2.3 WNW CLARKSVILLE [39.21, -76.92], 2.1 WNW CLARKSVILLE [39.21, -76.92], 2.2 WSW EAST LIOAK [39.22, -76.92], 2.6 WSW EAST LIOAK [39.22, -76.93]				
	07/08/19 09:15 EST		0	Flash Flood (due to Heavy Rain)
	07/08/19 10:30 EST		0	Source: Trained Spotter
Trotter road was impassable due to water flowing over the road.				
MONTGOMERY COUNTY --- 0.9 SW BRIGHTON [39.19, -77.04], 0.7 SW BRIGHTON [39.19, -77.04], 0.5 SW BRIGHTON [39.19, -77.04], 0.8 WSW BRIGHTON [39.19, -77.04]				
	07/08/19 09:39 EST		0	Flash Flood (due to Heavy Rain)
	07/08/19 12:00 EST		0	Source: Emergency Manager
Two to three feet of water was flowing over portions of Brighton Dam Road in the 1900 and 2200 Blocks.				
PRINCE GEORGE'S COUNTY --- 0.3 SE UPPER MARLBORO [38.82, -76.75], 0.3 E UPPER MARLBORO [38.82, -76.74], 0.1 E UPPER MARLBORO [38.82, -76.75], 0.5 SSW UPPER MARLBORO [38.81, -76.75]				
	07/08/19 10:03 EST		0	Flood (due to Heavy Rain)
	07/09/19 06:15 EST		0	Source: River/Stream Gage
The water level at the gauge along the West Branch of the Patuxent River in Upper Marlboro rose above flood state of 11 feet at 10:03 AM EST and fell below at 10:31 AM EST. The water level rose above flood stage of 11 feet again at 6:45 PM EST and it crested at 12.21 feet at 11:30 PM EST before falling below flood stage at 6:15 AM EST on the 9th. At 12 feet, much of Race Track Road floods between Marlboro Pike and the community center. The water street bridge in Upper Marlboro was also completely covered by water.				
MONTGOMERY COUNTY --- 0.6 WNW CARDEROCK SPGS [39.00, -77.18], 0.5 NW CARDEROCK SPGS [39.00, -77.18], 0.4 NW CARDEROCK SPGS [39.00, -77.18], 0.5 WNW CARDEROCK SPGS [39.00, -77.18]				

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/08/19 10:15 EST		0	Flash Flood (due to Heavy Rain)
	07/08/19 12:00 EST		0	Source: Emergency Manager

Road was partially washed out on Bradley Boulevard near the Norwood School.

CHARLES COUNTY --- 1.5 E ST CHARLES [38.60, -76.89], 1.5 E ST CHARLES [38.60, -76.89], 1.5 E ST CHARLES [38.60, -76.89], 1.6 E ST CHARLES [38.60, -76.89]

	07/08/19 10:18 EST		50K	Flash Flood (due to Heavy Rain)
	07/08/19 12:00 EST		0	Source: Broadcast Media

Wakefield circle was flooded with water up over the bottom of vehicle doors.

CARROLL COUNTY --- 0.5 S SYKESVILLE [39.36, -76.97], 1.1 SSE SYKESVILLE [39.36, -76.96], 1.1 SE SYKESVILLE [39.36, -76.96], 0.5 SE SYKESVILLE [39.36, -76.96]

	07/08/19 10:21 EST		0	Flood (due to Heavy Rain)
	07/08/19 12:21 EST		0	Source: 911 Call Center

River Road was closed due to flooding along the South Branch Patapsco River.

HOWARD COUNTY --- 2.0 NNE WOODSTOCK [39.36, -76.96], 1.9 NNE WOODSTOCK [39.36, -76.96], 2.0 NNE WOODSTOCK [39.36, -76.96], 2.0 NNE WOODSTOCK [39.36, -76.96]

	07/08/19 10:21 EST		0	Flood (due to Heavy Rain)
	07/08/19 13:21 EST		0	Source: 911 Call Center

River road was closed due to flooding along the South Branch Patapsco River due to flooding.

PRINCE GEORGE'S COUNTY --- 0.6 SE FT WASHINGTON FOREST [38.72, -76.97], 0.7 NE PISCATAWAY [38.71, -76.96], 0.2 N PISCATAWAY [38.70, -76.97], 0.6 SE FT WASHINGTON FOREST [38.71, -76.97]

	07/08/19 10:45 EST		0	Flood (due to Heavy Rain)
	07/08/19 12:45 EST		0	Source: Emergency Manager

Gallahan Road was closed near the 12900 Block due to flooding.

ST. MARY'S COUNTY --- 2.5 S LNRDWTN ST MARYS ARP [38.28, -76.55], 2.4 S LNRDWTN ST MARYS ARP [38.29, -76.56], 2.4 ENE REDGATE [38.28, -76.56], 2.5 ENE REDGATE [38.28, -76.56]

	07/08/19 11:05 EST		0	Flood (due to Heavy Rain)
	07/08/19 13:05 EST		0	Source: 911 Call Center

Indian Bridge Road was closed near Route 4.

ST. MARY'S COUNTY --- 0.5 NNW HUNTERVILLE [38.48, -76.73], 0.5 N HUNTERVILLE [38.48, -76.73], 0.8 N HUNTERVILLE [38.48, -76.73], 0.8 NNW HUNTERVILLE [38.48, -76.73]

	07/08/19 11:43 EST		0	Flash Flood (due to Heavy Rain)
	07/08/19 13:00 EST		0	Source: 911 Call Center

All Faith Church Road was closed near Wanda Lane.

MONTGOMERY COUNTY --- 0.9 WSW FAIRLAND [39.07, -76.96], 0.8 SW FAIRLAND [39.07, -76.96], 0.9 SW FAIRLAND [39.07, -76.96], 0.9 WSW FAIRLAND [39.07, -76.96]

	07/08/19 12:18 EST		0	Flood (due to Heavy Rain)
	07/08/19 14:18 EST		0	Source: Emergency Manager

There was a partial washout of Falling Creek Road between Hidden Valley Lane and Old Columbia Pike.

MONTGOMERY COUNTY --- 1.4 NNW TAKOMA PARK [38.99, -77.01], 1.4 NNW TAKOMA PARK [38.99, -77.01], 1.4 NNW TAKOMA PARK [38.99, -77.01], 1.4 NNW TAKOMA PARK [38.99, -77.01]

	07/08/19 12:23 EST		0	Flood (due to Heavy Rain)
	07/08/19 14:23 EST		0	Source: Emergency Manager

Park Valley Road was closed due to flooding at the crossing over Sligo Creek.

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MONTGOMERY COUNTY --- 2.3 SSW GERMANTOWN [39.15, -77.29], 1.2 NNW QUINCE ORCHARD [39.14, -77.26], 0.5 W QUINCE ORCHARD [39.12, -77.26], 1.3 W QUINCE ORCHARD [39.12, -77.27], 2.2 WNW QUINCE ORCHARD [39.13, -77.29]				
	07/08/19 12:29 EST	0		Flood (due to Heavy Rain)
	07/08/19 14:29 EST	0		Source: Emergency Manager
Riffle Ford Road was closed between MD 28 and MD 118.				
MONTGOMERY COUNTY --- 1.5 SE CLAGGETTSVILLE [39.30, -77.18], 1.5 SE CLAGGETTSVILLE [39.30, -77.18], 1.5 W MULLINIX [39.30, -77.18], 1.5 W MULLINIX [39.30, -77.18]				
	07/08/19 12:34 EST	0		Flood (due to Heavy Rain)
	07/08/19 14:34 EST	0		Source: Emergency Manager
Gue Road was closed due to flooding.				
MONTGOMERY COUNTY --- 1.4 NW BUCK LODGE [39.21, -77.35], 1.4 NW BUCK LODGE [39.21, -77.35], 1.2 NW BUCK LODGE [39.21, -77.35], 1.3 NW BUCK LODGE [39.21, -77.35]				
	07/08/19 12:38 EST	0		Flood (due to Heavy Rain)
	07/08/19 14:38 EST	0		Source: Emergency Manager
Barnesville Road was closed due to a stream flowing across the roadway.				
MONTGOMERY COUNTY --- 0.7 N KENWOOD [38.96, -77.13], 0.4 NNE KENWOOD [38.95, -77.13], 0.4 NE KENWOOD [38.96, -77.13], 0.7 NNE KENWOOD [38.96, -77.13]				
	07/08/19 13:42 EST	0		Flood (due to Heavy Rain)
	07/08/19 15:42 EST	0		Source: Emergency Manager
Wissioning Road was closed due to a partial washout.				
ST. MARY'S COUNTY --- 0.7 SE GREAT MILLS [38.22, -76.49], 1.0 SSE GREAT MILLS [38.22, -76.49], 1.1 SE GREAT MILLS [38.22, -76.49], 0.8 SE GREAT MILLS [38.22, -76.49]				
	07/08/19 16:00 EST	0		Flood (due to Heavy Rain)
	07/08/19 20:33 EST	0		Source: River/Stream Gage
The water level at Great Mills on the St Marys River rose above the flood stage of 6 feet and it crested at 7.5 feet at 6 PM EST. Flat Iron Road was flooded along with yards in Great Mills.				
CHARLES COUNTY --- 0.9 ESE INDIAN HD MRYLND ARP [38.60, -77.05], 0.8 E INDIAN HD MRYLND ARP [38.60, -77.06], 0.7 ESE INDIAN HD MRYLND ARP [38.60, -77.06], 0.8 ESE INDIAN HD MRYLND ARP [38.60, -77.06]				
	07/08/19 20:45 EST	0		Flood (due to Heavy Rain)
	07/09/19 04:00 EST	0		Source: River/Stream Gage
The water level rose to the flood stage of 7 feet along the Mattowoman Creek at Pomonkey. The water level crested at 7.43 feet at 10:00 PM EST on the 8th. At 7 feet, Pomfret Road begins to flood.				
A nearly stationary boundary set up near the Potomac River weak low pressure developed along the boundary. There was plenty of moisture in place from the Atlantic and Gulf of Mexico, and this combined with instability to produce very heavy rainfall rates in convection that developed. Convection was maximized around the boundary across central Maryland, and this led to several instances of flooding and flash flooding.				
(MD-Z003) WASHINGTON, (MD-Z502) CENTRAL AND EASTERN ALLEGANY				
	07/09/19 04:12 EST	0		Dense Fog
	07/09/19 05:20 EST	0		
Clearing skies combined with light winds and lingering low level moisture to produce areas of dense fog in the early morning hours of July 9th.				
(MD-Z017) ST. MARY'S				
	07/11/19 12:00 EST	0		Heat
	07/11/19 18:00 EST	0		
As surface high pressure moved offshore, southerly flow brought increasing warmth and humidity, combining to create heat index values in excess of 105 degrees in portions of southern Maryland.				

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ALLEGANY COUNTY --- 1.1 W EVITTS CREEK [39.63, -78.77]				
	07/11/19 13:23 EST		0	Thunderstorm Wind (EG 50 kt)
	07/11/19 13:23 EST		0	Source: State Official
A tree was blown down near the intersection of West Elder Street and Canal Parkway.				
ALLEGANY COUNTY --- 2.7 E KINGS GROVE [39.72, -78.72]				
	07/11/19 13:33 EST		0	Thunderstorm Wind (EG 50 kt)
	07/11/19 13:33 EST		0	Source: State Official
A tree was blown down along Valley Road Northeast just south of the Mason-Dixon Line.				
MONTGOMERY COUNTY --- 0.9 SE BYFORDE [39.01, -77.06]				
	07/11/19 14:53 EST		0	Thunderstorm Wind (EG 50 kt)
	07/11/19 14:53 EST		0	Source: Emergency Manager
A tree was blown down onto a house in the 9200 block of Levelle Drive. A tree was also blown down onto wires near the intersection of Blaine Drive and Grubb Road.				
MONTGOMERY COUNTY --- TAKOMA PARK [38.97, -77.00]				
	07/11/19 14:59 EST		0	Thunderstorm Wind (EG 50 kt)
	07/11/19 14:59 EST		0	Source: Emergency Manager
A tree was blown down onto a house in the 6700 block of Prince Georges Avenue. Trees were also blown down on wires near the intersection of Piney Branch Road and Philadelphia Avenue.				
PRINCE GEORGE'S COUNTY --- 1.1 WSW GREENBELT [39.00, -76.90]				
	07/11/19 15:10 EST		0	Thunderstorm Wind (EG 50 kt)
	07/11/19 15:10 EST		0	Source: County Official
A couple of trees and several large branches were blown down in the Berwyn Heights area.				
HARFORD COUNTY --- 1.5 SSE BAGLEY [39.48, -76.39]				
	07/11/19 15:15 EST		0	Thunderstorm Wind (EG 50 kt)
	07/11/19 15:15 EST		0	Source: State Official
A tree was blown down in the 2300 block of Dunwood Lane. A tree was also blown down near the intersection of Old Joppa Road and Woodtaker Mill Road.				
BALTIMORE COUNTY --- 0.9 SE PERRY HALL [39.41, -76.46]				
	07/11/19 15:45 EST		0	Thunderstorm Wind (EG 61 kt)
	07/11/19 15:45 EST		0	Source: State Official
Multiple power poles were blown down in the 4000 block of Chapel Road.				
HARFORD COUNTY --- 0.9 SW JOPPA [39.42, -76.38]				
	07/11/19 15:54 EST		0	Thunderstorm Wind (EG 50 kt)
	07/11/19 15:54 EST		0	Source: State Official
A tree was blown down onto power lines in the 100 block of Philadelphia Road. A tree was blown down across MD-7 near Joppa Farm Road.				
HARFORD COUNTY --- 0.7 S LAUREL BROOK [39.51, -76.43]				
	07/11/19 15:56 EST		0	Thunderstorm Wind (EG 50 kt)
	07/11/19 15:56 EST		0	Source: State Official
A tree was blown down across the roadway near the intersection of Guyton Road and Bottom Road just before the bridge. A large 8-inch diameter tree limb was blown near the intersection of Old Joppa Road and Old Mountain Road North.				
HARFORD COUNTY --- 0.9 SE PLEASANTVILLE [39.56, -76.42]				
	07/11/19 15:58 EST		0	Thunderstorm Wind (EG 50 kt)
	07/11/19 15:58 EST		0	Source: State Official

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A tree was blown down near the intersection of Pleasantville Road and High Point Road.				
HARFORD COUNTY --- 1.1 E CHURCHVILLE [39.57, -76.23]				
	07/11/19 15:58 EST	0		Thunderstorm Wind (EG 50 kt)
	07/11/19 15:58 EST	0		Source: County Official
A large tree was blown down in the 500 block of Bryarly Court.				
HARFORD COUNTY --- 1.6 E GLENWOOD [39.52, -76.30]				
	07/11/19 16:03 EST	0		Thunderstorm Wind (EG 50 kt)
	07/11/19 16:03 EST	0		Source: State Official
A tree was blown down blocking the 1300 block of East MacPhail Road. A tree was also blown down into wires and into water near the intersection of MD-543 and Wheel Road East.				
HARFORD COUNTY --- 0.9 SE ALDINO [39.56, -76.17]				
	07/11/19 16:15 EST	0		Thunderstorm Wind (EG 61 kt)
	07/11/19 16:15 EST	0		Source: State Official
Several trees were blown down onto Wesleyan Road near the intersection of North Paradise Road. Several trees were also blown down in the 3900 block of West Chapel Road.				
CHARLES COUNTY --- 0.5 W MARBURY [38.57, -77.16]				
	07/11/19 16:25 EST	0		Thunderstorm Wind (EG 50 kt)
	07/11/19 16:25 EST	0		Source: State Official
A tree was blown down in Marbury.				
HARFORD COUNTY --- 0.5 E OSBORNE [39.53, -76.11]				
	07/11/19 16:25 EST	0		Thunderstorm Wind (EG 50 kt)
	07/11/19 16:25 EST	0		Source: State Official
A tree limb was blown down onto power lines blocking the roadway in the 100 block of Old Bay Lane.				
ST. MARY'S COUNTY --- 1.3 ENE OAKS [38.51, -76.76]				
	07/11/19 17:34 EST	0		Thunderstorm Wind (EG 50 kt)
	07/11/19 17:34 EST	0		Source: State Official
A tree was blown down near the intersection of Indian Creek Drive and Cheyenne Court.				
CALVERT COUNTY --- 1.3 WSW PARRAN [38.59, -76.59]				
	07/11/19 17:46 EST	0		Thunderstorm Wind (EG 50 kt)
	07/11/19 17:46 EST	0		Source: State Official
A tree was blown down on Plum Point Road.				
A cold front approached from the west during the day of July 11th, with warm and moist air advection occurring on southerly flow. This promoted the development of significant amounts of instability, and that coupled with an approaching shortwave trough and modest shear values, led to the generation of scattered showers and thunderstorms, some of which became severe.				
HARFORD COUNTY --- 0.4 ENE BENSON [39.50, -76.37], 0.4 ENE BENSON [39.50, -76.37], 0.4 ENE BENSON [39.50, -76.37], 0.4 ENE BENSON [39.50, -76.37]				
	07/11/19 15:25 EST	0		Flash Flood (due to Heavy Rain)
	07/11/19 15:25 EST	0		Source: 911 Call Center
The road was flooded near the intersection of Old Joppa Road and Woodtaker Mill Road.				
HARFORD COUNTY --- 0.9 SE EMMORTON [39.49, -76.31], 0.9 SE EMMORTON [39.49, -76.31], 0.9 SE EMMORTON [39.49, -76.31], 0.9 SE EMMORTON [39.49, -76.31]				
	07/11/19 15:52 EST	0		Flash Flood (due to Heavy Rain)
	07/11/19 17:52 EST	0		Source: 911 Call Center
There was a report of more than eighteen inches of water across the roadway in the 300 Block of Regal Drive.				

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
BALTIMORE COUNTY --- 0.9 NNW OAKLEIGH [39.41, -76.55], 0.8 NNW OAKLEIGH [39.41, -76.56], 0.7 NNW OAKLEIGH [39.41, -76.55], 0.8 N OAKLEIGH [39.41, -76.55]				
	07/11/19 15:54 EST		0	Flash Flood (due to Heavy Rain)
	07/11/19 16:01 EST		0	Source: River/Stream Gage
The water level at Glen Arm along the Minebank Run rapidly rose above the flood stage of 10 feet, cresting at 10.12 feet on July 11th at 4:00 PM EST. Water covered the access road to Talmar.				
HARFORD COUNTY --- 0.5 SSW SINGER [39.47, -76.33], 1.6 NE JERUSALEM [39.47, -76.36], 1.2 NNE JERUSALEM [39.46, -76.37], 1.5 NNE JERUSALEM [39.47, -76.37]				
	07/11/19 16:10 EST		0	Flash Flood (due to Heavy Rain)
	07/11/19 18:10 EST		0	Source: 911 Call Center
Singer Road was flooded in multiple locations including near Mountain Road.				
HARFORD COUNTY --- 1.2 SW SINGER [39.47, -76.34], 1.3 SW SINGER [39.47, -76.34], 1.3 SW SINGER [39.47, -76.34], 1.2 SW SINGER [39.47, -76.34]				
	07/11/19 16:11 EST		0	Flash Flood (due to Heavy Rain)
	07/11/19 18:11 EST		0	Source: 911 Call Center
The 3200 Block of Clayton Road was completely flooded.				
HARFORD COUNTY --- 1.3 WSW SINGER [39.47, -76.35], 1.3 SW SINGER [39.47, -76.35], 1.2 SW SINGER [39.47, -76.35], 1.2 SW SINGER [39.47, -76.35]				
	07/11/19 16:11 EST		0	Flash Flood (due to Heavy Rain)
	07/11/19 18:11 EST		0	Source: 911 Call Center
There was a swift water rescue with two to three feet of water over the road.				
BALTIMORE COUNTY --- 0.3 NNW MC DONOGH [39.40, -76.75], 0.3 NNW MC DONOGH [39.40, -76.75], 0.3 NNW MC DONOGH [39.40, -76.75], 0.3 NNW MC DONOGH [39.40, -76.75]				
	07/11/19 16:21 EST		0	Flash Flood (due to Heavy Rain)
	07/11/19 18:21 EST		0	Source: 911 Call Center
A vehicle was stuck in flood waters near the intersection of Garrison Forest Road and Greenspring Valley Road.				
HARFORD COUNTY --- 0.7 ENE EMMORTON [39.50, -76.31], 0.7 ENE EMMORTON [39.50, -76.31], 0.8 ENE EMMORTON [39.50, -76.31], 0.8 ENE EMMORTON [39.50, -76.31]				
	07/11/19 16:21 EST		0	Flash Flood (due to Heavy Rain)
	07/11/19 18:21 EST		0	Source: 911 Call Center
Both sides of Patterson Mill Road were flooded near the intersection of Patterson Mill Road and Wheel Road.				
HARFORD COUNTY --- 0.5 SW SINGER [39.47, -76.34], 0.6 SW SINGER [39.47, -76.34], 0.5 SW SINGER [39.47, -76.34], 0.5 SW SINGER [39.47, -76.34]				
	07/11/19 16:25 EST		0	Flash Flood (due to Heavy Rain)
	07/11/19 18:25 EST		0	Source: 911 Call Center
Fifty feet of the bridge was washed away near the intersection of Singer Road and Winters Run Bridge.				
HARFORD COUNTY --- 0.7 SW SINGER [39.47, -76.34], 1.0 SSW SINGER [39.47, -76.34], 1.0 NNE CLAYTON [39.44, -76.32], 0.5 WSW VAN BIBBER [39.45, -76.31], 0.8 S SINGER [39.47, -76.33]				
	07/11/19 16:25 EST		0	Flash Flood (due to Heavy Rain)
	07/11/19 18:45 EST		0	Source: River/Stream Gage
The water level at Edgewood on Otter Point Creek rapidly rose above flood stage of 8 feet. The level crested at 10.29 feet at 5:30 PM EST. Significant flooding occurred along Winters Run Road in multiple spots between Singer Road and Route 7.				
HARFORD COUNTY --- 0.8 ENE EMMORTON [39.50, -76.31], 0.5 SSE EMMORTON [39.49, -76.31], 0.4 SSE EMMORTON [39.49, -76.32], 0.7 ENE EMMORTON [39.50, -76.31]				
	07/11/19 16:27 EST		0	Flash Flood (due to Heavy Rain)
	07/11/19 18:27 EST		0	Source: 911 Call Center
Wheel Road was flooded between Cedar Lane and Laurel Bush Road.				

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
BALTIMORE COUNTY --- 1.1 WSW FORK [39.47, -76.47], 1.1 WSW FORK [39.47, -76.47], 1.1 WSW FORK [39.47, -76.47], 1.0 WSW FORK [39.47, -76.47]				
	07/11/19 16:31 EST		0	Flash Flood (due to Heavy Rain)
	07/11/19 18:31 EST		0	Source: 911 Call Center
A vehicle was stuck in flood waters near the intersection of Bottom Road and Williams Road.				
BALTIMORE COUNTY --- 0.2 ESE PARKVILLE [39.38, -76.55], 0.2 ESE PARKVILLE [39.38, -76.55], 0.2 ESE PARKVILLE [39.38, -76.55], 0.2 ESE PARKVILLE [39.38, -76.55]				
	07/11/19 16:32 EST		0	Flash Flood (due to Heavy Rain)
	07/11/19 18:32 EST		0	Source: Fire Department/Rescue
Flash flooding caused the road to be impassible at the 8000 Block of Harris Avenue in Parkville.				
BALTIMORE COUNTY --- 0.9 SW BRADSHAW [39.41, -76.39], 1.0 SW BRADSHAW [39.41, -76.39], 1.1 SSW BRADSHAW [39.41, -76.39], 0.9 SSW BRADSHAW [39.41, -76.39]				
	07/11/19 16:40 EST		0	Flash Flood (due to Heavy Rain)
	07/11/19 18:40 EST		0	Source: Fire Department/Rescue
A vehicle was on its side due to flood waters near US 40 and Big Gunpowder Falls.				
BALTIMORE COUNTY --- 1.6 W WHITE MARSH [39.38, -76.46], 1.6 WSW WHITE MARSH [39.38, -76.46], 1.4 WSW WHITE MARSH [39.37, -76.46], 1.4 WSW WHITE MARSH [39.38, -76.45]				
	07/11/19 16:51 EST		0	Flash Flood (due to Heavy Rain)
	07/11/19 18:24 EST		0	Source: River/Stream Gage
The water level at White Marsh Run rapidly rose above the flood stage of 11 feet, cresting at 13.30 feet on July 11th at 5:45 PM EST. This caused flooding near Town Center Court.				
BALTIMORE COUNTY --- 1.6 W WHITE MARSH [39.38, -76.46], 1.7 W WHITE MARSH [39.38, -76.46], 1.5 WSW WHITE MARSH [39.38, -76.46], 1.6 W WHITE MARSH [39.38, -76.46]				
	07/11/19 16:51 EST		0	Flash Flood (due to Heavy Rain)
	07/11/19 18:45 EST		0	Source: Fire Department/Rescue
Multiple cars were stuck in flood waters on Honeygo Boulevard in White Marsh.				
HARFORD COUNTY --- 0.5 E GIBSON [39.58, -76.32], 0.9 E GIBSON [39.58, -76.31], 0.9 E GIBSON [39.58, -76.31], 0.7 E GIBSON [39.58, -76.32]				
	07/11/19 16:52 EST		0	Flash Flood (due to Heavy Rain)
	07/11/19 18:45 EST		0	Source: 911 Call Center
There was flooding along Ruffs Mill Road between Conowingo Road and Thomas Run Road.				
HARFORD COUNTY --- 1.0 WSW VAN BIBBER [39.44, -76.32], 1.0 SW VAN BIBBER [39.44, -76.32], 0.8 SW VAN BIBBER [39.44, -76.31], 0.9 WSW VAN BIBBER [39.44, -76.31]				
	07/11/19 16:54 EST		0	Flash Flood (due to Heavy Rain)
	07/11/19 18:45 EST		0	Source: 911 Call Center
Route 7 was completely flooded at Fashion Way.				
HARFORD COUNTY --- 0.3 NNW BENSON [39.50, -76.38], 0.3 NW BENSON [39.50, -76.38], 0.3 NNW BENSON [39.50, -76.38], 0.3 NNW BENSON [39.50, -76.38]				
	07/11/19 17:12 EST		0	Flash Flood (due to Heavy Rain)
	07/11/19 18:45 EST		0	Source: Department of Highways
Us Route 1 was flooded and closed in both directions at Connolly Road in Bel Air.				
BALTIMORE COUNTY --- 0.3 ESE WHITE MARSH [39.38, -76.42], 0.4 ESE WHITE MARSH [39.38, -76.42], 0.3 ESE WHITE MARSH [39.38, -76.42], 0.2 ESE WHITE MARSH [39.38, -76.43]				
	07/11/19 17:21 EST		0	Flash Flood (due to Heavy Rain)
	07/11/19 17:48 EST		0	Source: River/Stream Gage
The water level at White Marsh along the Honeygo Run passed flood stage of 6 feet. Water flowed around a business on Ebenezer Road. The water level crested at 7.84 feet at 5:30 PM EST.				

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
HARFORD COUNTY --- 0.7 SW SINGER [39.47, -76.34], 1.0 SSW SINGER [39.47, -76.34], 1.0 NNE CLAYTON [39.44, -76.32], 0.5 SW VAN BIBBER [39.45, -76.31]				
	07/11/19 18:45 EST		0	Flood (due to Heavy Rain)
	07/11/19 20:31 EST		0	Source: River/Stream Gage

The water level at Edgewood on Otter Point Creek rapidly remained above the flood stage of 8 feet. Significant flooding occurred along Winters Run Road in multiple spots between Singer Road and Route 7.

PRINCE GEORGE'S COUNTY --- 0.8 ESE RITCHIE [38.87, -76.84], 0.9 ESE RITCHIE [38.87, -76.83], 0.9 ESE RITCHIE [38.87, -76.83], 0.9 ESE RITCHIE [38.87, -76.83]				
	07/11/19 18:58 EST		0	Flood (due to Heavy Rain)
	07/11/19 20:58 EST		0	Source: Emergency Manager

There was a flood related closure near Ritchie Marlboro Road and White House Road.

PRINCE GEORGE'S COUNTY --- 0.4 S UPPER MARLBORO [38.81, -76.75], 0.4 S UPPER MARLBORO [38.81, -76.75], 0.5 S UPPER MARLBORO [38.81, -76.75], 0.4 SSW UPPER MARLBORO [38.81, -76.75]				
	07/12/19 05:46 EST		0	Flood (due to Heavy Rain)
	07/12/19 12:34 EST		0	Source: River/Stream Gage

The water level at Upper Marlboro along the western Branch of the Patuxent was above flood state of 11 feet. The water level crested at 11.62 feet at 9:15 AM on July 12th. The Water Street Bridge was completely covered by water.

A cold front moved into the area on the 11th, and out ahead of the boundary there was a warm and very humid airmass. The warm and humid airmass caused an unstable atmosphere which led to the development of showers and thunderstorms. Storms produced heavy rainfall, and they were slow to move due to a weak flow aloft. This led to instances of flooding and flash flooding.

(MD-Z016) CHARLES, (MD-Z017) ST. MARY'S, (MD-Z018) CALVERT				
	07/16/19 12:00 EST		0	Heat
	07/16/19 18:00 EST		0	

Temperatures in the 90s combined with dew points in the upper 60s and low 70s to create heat index values in excess of 105 degrees across portions of southern Maryland.

(MD-Z011) SOUTHERN BALTIMORE, (MD-Z013) PRINCE GEORGES, (MD-Z014) ANNE ARUNDEL, (MD-Z016) CHARLES, (MD-Z017) ST. MARY'S, (MD-Z018) CALVERT, (MD-Z504) CENTRAL AND SOUTHEAST MONTGOMERY, (MD-Z506) CENTRAL AND SOUTHEAST HOWARD, (MD-Z508) SOUTHEAST HARFORD				
	07/17/19 10:00 EST		0	Heat
	07/17/19 17:21 EST		0	

Temperatures in the 90s combined with dew points in the lower 70s to create heat index values in excess of 105 degrees.

MONTGOMERY COUNTY --- 1.8 ESE BEALLSVILLE [39.17, -77.39]				
	07/17/19 15:48 EST		0	Thunderstorm Wind (EG 61 kt)
	07/17/19 15:48 EST		0	Source: Trained Spotter

A tree was blown down at a residence in Poolesville. Multiple trees were also blown down in the area between Poolesville, Dickerson, and Beallsville.

MONTGOMERY COUNTY --- 1.4 S GERMANTOWN [39.16, -77.28]				
	07/17/19 15:56 EST		0	Thunderstorm Wind (EG 61 kt)
	07/17/19 15:56 EST		0	Source: Fire Department/Rescue

Multiple trees and wires were blown down on Germantown Road in Germantown. A tree was also blown down blocking a road near Boyds. Trees and wires were reported blocking roads near Dawsonville.

CARROLL COUNTY --- 1.3 WSW UNION MILLS [39.66, -77.05]				
	07/17/19 16:14 EST		0	Thunderstorm Wind (EG 50 kt)
	07/17/19 16:14 EST		0	Source: State Official

A tree was blown down on Study Road.

MONTGOMERY COUNTY --- 0.7 N TWIN BROOK [39.08, -77.10]				
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Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/17/19 16:14 EST		0	Thunderstorm Wind (EG 50 kt)
	07/17/19 16:14 EST		0	Source: Fire Department/Rescue
A tree was blown down near the 13600 block of Russett Road.				
<hr/>				
MONTGOMERY COUNTY --- 1.3 WNW DAWSONVILLE [39.14, -77.37]				
	07/17/19 16:18 EST		0	Thunderstorm Wind (EG 61 kt)
	07/17/19 16:18 EST		0	Source: Emergency Manager
Trees and wires were blown down near Gaithersburg, Montgomery Village, and Roxbury Mills.				
<hr/>				
CHARLES COUNTY --- 0.9 SW DONCASTER [38.49, -77.23]				
	07/17/19 16:19 EST		0	Thunderstorm Wind (EG 61 kt)
	07/17/19 16:19 EST		0	Source: Fire Department/Rescue
Multiple trees were blown down in the Nanjemoy area, especially near the intersection of Sandy Point Road and Jacksontown Road.				
<hr/>				
MONTGOMERY COUNTY --- 0.7 S GLEN ECHO [38.96, -77.13]				
	07/17/19 16:25 EST		0	Thunderstorm Wind (EG 50 kt)
	07/17/19 16:25 EST		0	Source: Emergency Manager
A tree was blown onto a house in Glen Echo. One person was injured when a tree branch fell onto them in North Bethesda.				
<hr/>				
CARROLL COUNTY --- 0.5 E REESE [39.55, -76.94]				
	07/17/19 16:28 EST		0	Thunderstorm Wind (EG 61 kt)
	07/17/19 16:28 EST		0	Source: State Official
Multiple trees were blown down near the intersection of South Tannery Road and Gorsech Road.				
<hr/>				
CARROLL COUNTY --- SYKESVILLE [39.37, -76.97]				
	07/17/19 16:28 EST		0	Thunderstorm Wind (EG 50 kt)
	07/17/19 16:28 EST		0	Source: State Official
A couple of trees were blown down near Sykesville.				
<hr/>				
CARROLL COUNTY --- 0.5 W ELDERSBURG WOLF ARPT [39.40, -76.93]				
	07/17/19 16:32 EST		0	Thunderstorm Wind (EG 61 kt)
	07/17/19 16:32 EST		0	Source: Public
Multiple trees were blown down along Liberty Road east of Eldersburg.				
<hr/>				
MONTGOMERY COUNTY --- TAKOMA PARK [38.97, -77.00]				
	07/17/19 16:32 EST		0	Thunderstorm Wind (EG 50 kt)
	07/17/19 16:32 EST		0	Source: Public
A tree was blown down onto a car on Poplar Avenue between 4th Avenue and New Hampshire Avenue. A tree was also blown down at MD-410 East-West Highway and Rosemary Hills Drive.				
<hr/>				
HARFORD COUNTY --- COOPSTOWN [39.58, -76.42]				
	07/17/19 16:46 EST		0	Thunderstorm Wind (EG 50 kt)
	07/17/19 16:46 EST		0	Source: State Official
Several trees were blown down in Forest Hill.				
<hr/>				
PRINCE GEORGE'S COUNTY --- 0.9 SE CLINTON HYDE FLD ARP [38.76, -76.94]				
	07/17/19 16:46 EST		0	Thunderstorm Wind (EG 50 kt)
	07/17/19 16:46 EST		0	Source: State Official
A tree was blown down on Steed Road.				
<hr/>				
BALTIMORE COUNTY --- 1.3 WSW LOCHEARN [39.34, -76.75]				

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/17/19 16:55 EST		0	Thunderstorm Wind (EG 50 kt)
	07/17/19 16:55 EST		0	Source: Department of Highways
A large tree was blown down blocking three lanes of I-695 Baltimore Beltway Inner Loop at Greenspring Avenue.				
<hr/>				
BALTIMORE COUNTY --- 0.9 SW TEXAS [39.46, -76.66]				
	07/17/19 17:00 EST		0	Thunderstorm Wind (EG 61 kt)
	07/17/19 17:00 EST		0	Source: Broadcast Media
Several large trees were blown down on Tintern Court.				
<hr/>				
BALTIMORE COUNTY --- 1.5 NNE BARE HILLS [39.37, -76.67]				
	07/17/19 17:00 EST		0	Thunderstorm Wind (EG 61 kt)
	07/17/19 17:00 EST		0	Source: Public
Multiple trees were blown down near the intersection of Greenspring Avenue and Kelly Avenue in Lutherville.				
<hr/>				
ANNE ARUNDEL COUNTY --- 0.5 W LOTHIAN [38.83, -76.61]				
	07/17/19 17:02 EST		0	Thunderstorm Wind (EG 50 kt)
	07/17/19 17:02 EST		0	Source: State Official
Multiple reports of trees down were received, some on power lines, in Lothian.				
<hr/>				
BALTIMORE COUNTY --- 2.3 SSE STONELEIGH [39.34, -76.60]				
	07/17/19 17:07 EST		0	Thunderstorm Wind (EG 50 kt)
	07/17/19 17:07 EST		0	Source: State Official
A tree was blown down near the intersection of East Cold Spring Lane and Marble Hall Road.				
<hr/>				
ANNE ARUNDEL COUNTY --- 0.9 SE ANNAPOLIS LEE FLD AR [38.94, -76.56]				
	07/17/19 17:09 EST		0	Thunderstorm Wind (EG 50 kt)
	07/17/19 17:09 EST		0	Source: State Official
Multiple trees were blown down in Edgewater, some onto power lines.				
<hr/>				
BALTIMORE COUNTY --- 0.9 NW SWEET AIR [39.53, -76.54]				
	07/17/19 17:09 EST		0	Thunderstorm Wind (EG 50 kt)
	07/17/19 17:09 EST		0	Source: Trained Spotter
A tree was blown down on a house near Long Green.				
<hr/>				
HARFORD COUNTY --- 1.6 W LAUREL BROOK [39.52, -76.46]				
	07/17/19 17:09 EST		0	Thunderstorm Wind (EG 50 kt)
	07/17/19 17:09 EST		0	Source: State Official
An 18-inch diameter tree was blown down blocking the roadway.				
<hr/>				
HARFORD COUNTY --- JARRETTSVILLE [39.60, -76.48]				
	07/17/19 17:14 EST		0	Thunderstorm Wind (EG 61 kt)
	07/17/19 17:14 EST		0	Source: State Official
Multiple reports of trees down in Jarrettsville were received.				
<hr/>				
HARFORD COUNTY --- 0.9 SW GIBSON [39.57, -76.34]				
	07/17/19 17:19 EST		0	Thunderstorm Wind (EG 50 kt)
	07/17/19 17:19 EST		0	Source: State Official
A tree fell onto a residence on Saddleback Way.				
<hr/>				
BALTIMORE COUNTY --- 2.1 S MIDDLE RIVER [39.30, -76.45]				
	07/17/19 17:20 EST		0	Thunderstorm Wind (EG 61 kt)
	07/17/19 17:20 EST		0	Source: State Official

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Up to four dozen reports of trees and wires down in the Dundalk, Essex and Middle River area were received.

HARFORD COUNTY --- 0.9 SW POOLE [39.62, -76.26]

	07/17/19 17:22 EST	0		Thunderstorm Wind (EG 50 kt)
	07/17/19 17:22 EST	0		Source: State Official

A tree was blown down onto a wire at the intersection of MD-136 and Trappe Road.

HARFORD COUNTY --- 1.7 WNW BERKLEY [39.68, -76.23]

	07/17/19 17:31 EST	0		Thunderstorm Wind (EG 50 kt)
	07/17/19 17:31 EST	0		Source: State Official

A tree was blown down at the intersection of Flintville Road and Broad Creek Road.

HARFORD COUNTY --- 0.5 E ABERDEEN ARPT [39.50, -76.17]

	07/17/19 17:35 EST	0		Thunderstorm Wind (EG 50 kt)
	07/17/19 17:35 EST	0		Source: State Official

Multiple trees and power lines were reported down in the Aberdeen area.

On July 17th, the remnant circulation of Barry moved into Pennsylvania with a surface pressure trough out ahead of it over the Mid-Atlantic. Out ahead of the circulation, a hot, humid, and unstable air mass was in place, and this helped to initiate scattered to numerous showers and thunderstorms in the afternoon. Some of these thunderstorms became strong to locally severe.

(MD-Z003) WASHINGTON, (MD-Z006) NORTHERN BALTIMORE, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z013) PRINCE GEORGES, (MD-Z014) ANNE ARUNDEL, (MD-Z505) NORTHWEST HOWARD, (MD-Z506) CENTRAL AND SOUTHEAST HOWARD

	07/19/19 10:00 EST	0		Excessive Heat
	07/19/19 20:00 EST	0		

(MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z016) CHARLES, (MD-Z017) ST. MARY'S, (MD-Z018) CALVERT, (MD-Z502) CENTRAL AND EASTERN ALLEGANY, (MD-Z503) NORTHWEST MONTGOMERY, (MD-Z504) CENTRAL AND SOUTHEAST MONTGOMERY, (MD-Z507) NORTHWEST HARFORD, (MD-Z508) SOUTHEAST HARFORD

	07/19/19 10:00 EST	0		Heat
	07/19/19 20:00 EST	0		

Temperatures from the mid 90s to near 100 degrees combined with dew points near 70 degrees to create dangerously high heat index values.

(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z013) PRINCE GEORGES, (MD-Z014) ANNE ARUNDEL, (MD-Z016) CHARLES, (MD-Z017) ST. MARY'S, (MD-Z018) CALVERT, (MD-Z503) NORTHWEST MONTGOMERY, (MD-Z504) CENTRAL AND SOUTHEAST MONTGOMERY, (MD-Z505) NORTHWEST HOWARD, (MD-Z506) CENTRAL AND SOUTHEAST HOWARD, (MD-Z507) NORTHWEST HARFORD, (MD-Z508) SOUTHEAST HARFORD

	07/20/19 10:00 EST	1		Excessive Heat
	07/20/19 20:00 EST	0		

Direct Fatalities: F32OU

(MD-Z502) CENTRAL AND EASTERN ALLEGANY

	07/20/19 10:00 EST	0		Heat
	07/20/19 20:00 EST	0		

Temperatures from the mid 90s to the lower 100s combined with dew points near 70 degrees to create dangerously high heat index values.

MONTGOMERY COUNTY --- 0.5 E CARDEROCK [38.98, -77.19]

	07/20/19 20:24 EST	0		Thunderstorm Wind (EG 50 kt)
	07/20/19 20:24 EST	0		Source: Fire Department/Rescue

A tree was blown down onto a house in the 6900 block of Anchorage Street off of MacArthur Boulevard.

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MONTGOMERY COUNTY --- BROOKMONT [38.95, -77.12]				
	07/20/19 20:37 EST		0	Thunderstorm Wind (EG 50 kt)
	07/20/19 20:37 EST		0	Source: Fire Department/Rescue
Several trees were blown down in the 6900 block of MacArthur Boulevard with some lanes blocked.				
Isolated thunderstorms developed during the evening hours of July 20th as weak shortwave energy from a weakening mesoscale convective vortex acted in concert with local terrain circulations to initiate convection. These isolated thunderstorms became strong to locally severe.				
(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z013) PRINCE GEORGES, (MD-Z014) ANNE ARUNDEL, (MD-Z016) CHARLES, (MD-Z017) ST. MARY'S, (MD-Z018) CALVERT, (MD-Z503) NORTHWEST MONTGOMERY, (MD-Z504) CENTRAL AND SOUTHEAST MONTGOMERY, (MD-Z505) NORTHWEST HOWARD, (MD-Z506) CENTRAL AND SOUTHEAST HOWARD, (MD-Z507) NORTHWEST HARFORD, (MD-Z508) SOUTHEAST HARFORD				
	07/21/19 10:00 EST	1	0	Excessive Heat
	07/21/19 20:00 EST		0	
Direct Fatalities: M65??				
(MD-Z502) CENTRAL AND EASTERN ALLEGANY				
	07/21/19 10:00 EST		0	Heat
	07/21/19 20:00 EST		0	
Temperatures from the mid 90s to around 100 degrees combined with dew points in the 70s to create dangerously high heat index values.				
MONTGOMERY COUNTY --- 1.3 WNW CARDEROCK SPGS [39.01, -77.19]				
	07/21/19 18:32 EST		0	Thunderstorm Wind (EG 50 kt)
	07/21/19 18:32 EST		0	Source: Broadcast Media
A large tree was blown down across River Road near Congressional Parkway.				
MONTGOMERY COUNTY --- 0.5 E CABIN JOHN [38.97, -77.16]				
	07/21/19 18:34 EST		0	Thunderstorm Wind (EG 61 kt)
	07/21/19 18:34 EST		0	Source: Emergency Manager
Multiple trees were blown down in Glen Echo.				
FREDERICK COUNTY --- 0.7 N FREDERICK [39.43, -77.42]				
	07/21/19 18:35 EST		0	Thunderstorm Wind (EG 61 kt)
	07/21/19 18:35 EST		0	Source: State Official
Multiple reports of trees and wires down were received in the City of Frederick.				
MONTGOMERY COUNTY --- 1.5 NNE WOODHAVEN [39.02, -77.12]				
	07/21/19 18:37 EST		0	Thunderstorm Wind (EG 61 kt)
	07/21/19 18:37 EST		0	Source: Trained Spotter
A 10-inch diameter tree branch was blown down at the intersection of Democracy Boulevard and Fernwood Road. Another tree was blown down in the 10200 block of Old Georgetown Road. Multiple trees were blown down along Woodhaven Boulevard near Bradley Boulevard. A tree was also blown onto a house in the 6400 block of Greentree Road. A large tree fell onto a house in the 8700 block of Ewing Drive.				
FREDERICK COUNTY --- WALKERSVILLE [39.48, -77.35]				
	07/21/19 18:44 EST		0	Thunderstorm Wind (EG 61 kt)
	07/21/19 18:44 EST		0	Source: State Official
Numerous trees were blown down in Walkersville.				
MONTGOMERY COUNTY --- 0.5 W PARKSIDE [39.03, -77.09]				

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/21/19 18:48 EST		0	Thunderstorm Wind (EG 50 kt)
	07/21/19 18:48 EST		0	Source: Public

A tree was blown down across the railroad tracks near Garrett Park. A tree was blown down across Beach Drive. A tree was also blown down on wires near Connecticut Avenue and Adams Drive.

MONTGOMERY COUNTY --- 1.3 ENE POTOMAC [39.03, -77.20]				
	07/21/19 18:48 EST		0	Thunderstorm Wind (EG 61 kt)
	07/21/19 18:48 EST		0	Source: Emergency Manager

Multiple trees were blown down in the Potomac area.

FREDERICK COUNTY --- 0.5 E LIBERTYTOWN [39.48, -77.24]				
	07/21/19 19:00 EST		0	Thunderstorm Wind (EG 61 kt)
	07/21/19 19:00 EST		0	Source: State Official

Numerous trees were blown down in Libertytown.

CARROLL COUNTY --- 0.7 N DENNING [39.49, -77.08]				
	07/21/19 19:12 EST		0	Thunderstorm Wind (EG 50 kt)
	07/21/19 19:12 EST		0	Source: Trained Spotter

Large tree limbs were blown down on Marston Road. Additional trees and wires were blown down in area.

CARROLL COUNTY --- SYKESVILLE [39.37, -76.97]				
	07/21/19 19:36 EST		0	Thunderstorm Wind (EG 50 kt)
	07/21/19 19:36 EST		0	Source: State Official

A tree was blown down on power lines near the intersection of Main Street and Spout Hill Road.

BALTIMORE COUNTY --- 0.9 SE BEREAN [39.56, -76.72]				
	07/21/19 19:39 EST		0	Thunderstorm Wind (EG 50 kt)
	07/21/19 19:39 EST		0	Source: State Official

Trees were blown down in the 2000 block of Abell Lane.

BALTIMORE COUNTY --- OWINGS MILLS [39.42, -76.78]				
	07/21/19 19:39 EST		0	Thunderstorm Wind (EG 50 kt)
	07/21/19 19:39 EST		0	Source: State Official

A tree was blown down along Owings Mills Boulevard at South Dolfield Road.

BALTIMORE COUNTY --- 0.7 N WHITE HALL [39.63, -76.63]				
	07/21/19 19:49 EST		0	Thunderstorm Wind (EG 50 kt)
	07/21/19 19:49 EST		0	Source: State Official

Trees were blown down in the 1500 block of Whitehall Road, in the 19000 block of Graystone Road, and along Stablers Church Road at York Road.

BALTIMORE COUNTY --- 0.9 NW RIDERWOOD [39.43, -76.66]				
	07/21/19 19:49 EST		0	Thunderstorm Wind (EG 50 kt)
	07/21/19 19:49 EST		0	Source: State Official

A tree was blown down on West Seminary Avenue at Mays Chapel Road.

HARFORD COUNTY --- 0.7 N DARLINGTON [39.64, -76.20]				
	07/21/19 20:36 EST		0	Thunderstorm Wind (EG 50 kt)
	07/21/19 20:36 EST		0	Source: State Official

A tree was blown down in the 1100 block of Main Street in Darlington.

An upper level ridge that was in place began to break down during the afternoon hours of July 21st as a cold front moved through the Midwest and an upper-level trough dug into the northern Plains. This allowed additional moisture into the area and when combined with a weakening capping inversion from height falls it was enough for scattered showers and thunderstorms to develop.

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
With substantial instability, some of these thunderstorms became strong to locally severe.				
<hr/>				
(MD-Z017) ST. MARY'S, (MD-Z018) CALVERT				
	07/22/19 10:00 EST		0	Heat
	07/22/19 18:00 EST		0	
Temperatures in the mid 90s combined with dew points in the 70s to create heat index values around 105 degrees.				
<hr/>				
MONTGOMERY COUNTY --- 2.3 SSW ROCKVILLE [39.05, -77.17]				
	07/22/19 14:00 EST		0	Thunderstorm Wind (EG 50 kt)
	07/22/19 14:00 EST		0	Source: Public
Numerous tree limbs up to 5 inches in diameter were blown down and a couple small trees were uprooted near Churchill High School. One tree limb snapped and took down a transformer.				
<hr/>				
HARFORD COUNTY --- 2.5 ESE NORRISVILLE [39.68, -76.49]				
	07/22/19 14:02 EST		0	Thunderstorm Wind (EG 50 kt)
	07/22/19 14:02 EST		0	Source: Emergency Manager
Trees and wires were blown down in the 4700 block of Mellow Road.				
<hr/>				
MONTGOMERY COUNTY --- 0.9 SE HYATTSTOWN [39.27, -77.31]				
	07/22/19 14:03 EST		0	Thunderstorm Wind (EG 50 kt)
	07/22/19 14:03 EST		0	Source: State Official
Multiple trees were blown down in the 25500 block of North Frederick Road blocking both directions between Hyattstown Road and Little Bennett Drive. Trees and wires were also blown down on I-270 near the weigh station, blocking all lanes.				
<hr/>				
FREDERICK COUNTY --- 0.9 SW URBANA [39.32, -77.36]				
	07/22/19 14:04 EST		0	Thunderstorm Wind (MG 50 kt)
	07/22/19 14:04 EST		0	Source: Broadcast Media
A 50 knot (58 mph) wind gust was measured at Urbana Corporate Park. A tree was blown down on I-270 near MD-80.				
<hr/>				
FREDERICK COUNTY --- 2.6 NW NEW MARKET [39.41, -77.30]				
	07/22/19 14:07 EST		0	Thunderstorm Wind (EG 50 kt)
	07/22/19 14:07 EST		0	Source: State Official
A tree was reported down on Boyers Mill Road.				
<hr/>				
FREDERICK COUNTY --- 1.8 SE BARTHOLOW [39.35, -77.21]				
	07/22/19 14:09 EST		0	Thunderstorm Wind (EG 70 kt)
	07/22/19 14:09 EST		0	Source: Public
Several large trees were snapped off halfway up or uprooted near Adam Court.				
<hr/>				
MONTGOMERY COUNTY --- 0.7 N CLAGGETTSVILLE [39.33, -77.20]				
	07/22/19 14:09 EST		0	Thunderstorm Wind (EG 70 kt)
	07/22/19 14:09 EST		0	Source: Trained Spotter
Numerous healthy trees and limbs were blown down just north of Friendship. Roof shingles were stripped from at least one home. A tree was blown down on Bethesda Church Road near Purdum Road.				
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FREDERICK COUNTY --- 1.8 WSW FOUNTAIN MILLS [39.32, -77.28]				
	07/22/19 14:10 EST		0	Thunderstorm Wind (MG 50 kt)
	07/22/19 14:10 EST		0	Source: Mesonet
A 50 knot (58 mph) wind gust was measured at Windsor Knolls Middle School in Ijamsville.				
<hr/>				
HOWARD COUNTY --- 0.5 E FLORENCE [39.32, -77.11]				
	07/22/19 14:17 EST		0	Thunderstorm Wind (EG 50 kt)
	07/22/19 14:17 EST		0	Source: State Official

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A tree was blown down in the 2900 block of Florence Road. Another tree was blown down in the 16400 block of Frederick Road.				
HOWARD COUNTY --- 2.1 N WOODSTOCK [39.36, -76.97]				
	07/22/19 14:27 EST		0	Thunderstorm Wind (EG 50 kt)
	07/22/19 14:27 EST		0	Source: State Official
A tree was blown down on Forsythe Road near West Friendship Road. Another tree was blown down on River Road near MD-32.				
CARROLL COUNTY --- 0.9 SW CEDARHURST [39.49, -76.89]				
	07/22/19 14:34 EST	1	0	Thunderstorm Wind (EG 78 kt)
	07/22/19 14:34 EST		0	Source: Law Enforcement
A couple of large trees were uprooted and a few 10-inch diameter trees were snapped off of Bloom Road. Numerous large trees were blown down in the vicinity of the intersection of Old Kays Mill Road and Deer Park Road, some onto houses. Half a dozen homes in the area had shingles blown off and a barn lost its roof on Black Steer Drive. One fatality occurred when a tree fell onto a man in the 2900 block of Bloom Road in Finksburg.				
Direct Fatalities: M??UT				
CARROLL COUNTY --- EASTVIEW [39.52, -76.95]				
	07/22/19 14:35 EST		0	Thunderstorm Wind (EG 50 kt)
	07/22/19 14:35 EST		0	Source: State Official
A tree was blown down on Bollinger Road near Hook Road.				
BALTIMORE COUNTY --- 0.9 SW BORING [39.52, -76.84]				
	07/22/19 14:38 EST		0	Thunderstorm Wind (EG 61 kt)
	07/22/19 14:38 EST		0	Source: Emergency Manager
All lanes of MD-30 were closed due to trees and wires in the roadway between Glen Falls Road and MD-91.				
CARROLL COUNTY --- 1.3 ENE LAWDALE [39.53, -76.86]				
	07/22/19 14:40 EST		0	Thunderstorm Wind (EG 70 kt)
	07/22/19 14:40 EST		0	Source: Public
Widespread tree damage was reported with snapped and uprooted large trees and limbs in the 1400 block of Emory Church Road. Part of a roof was blown off of a barn.				
BALTIMORE COUNTY --- 0.5 E ST GEORGES [39.45, -76.79]				
	07/22/19 14:41 EST		0	Thunderstorm Wind (EG 50 kt)
	07/22/19 14:41 EST		0	Source: Emergency Manager
Several large tree limbs were blown down in the 700 block of Academy Avenue.				
BALTIMORE COUNTY --- 1.5 SSW BEREAN [39.55, -76.74]				
	07/22/19 14:44 EST		0	Thunderstorm Wind (EG 70 kt)
	07/22/19 14:44 EST		0	Source: State Official
Multiple trees were blown down in the vicinity of Black Road Road and Falls Road.				
BALTIMORE COUNTY --- 0.9 SE SHAWAN [39.49, -76.71]				
	07/22/19 14:45 EST		0	Thunderstorm Wind (EG 50 kt)
	07/22/19 14:45 EST		0	Source: Department of Highways
A tree was blown down blocking all lanes of Falls Road at Knox Avenue.				
BALTIMORE COUNTY --- 0.7 N EVNA [39.59, -76.70]				
	07/22/19 14:47 EST		0	Thunderstorm Wind (EG 70 kt)
	07/22/19 14:47 EST		0	Source: Trained Spotter
Multiple large trees up to 3 feet in diameter were uprooted and snapped, falling in multiple directions on Evna Road just north of MD-137 Mount Carmel Road.				
BALTIMORE COUNTY --- 1.3 WSW BLUE MT [39.59, -76.64]				

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/22/19 14:51 EST		0	Thunderstorm Wind (EG 70 kt)
	07/22/19 14:51 EST		0	Source: State Official
Multiple trees were blown down in the vicinity of Monkton Road and Big Falls Road.				
<hr/>				
BALTIMORE COUNTY --- 0.5 E STEVENSON [39.42, -76.71]				
	07/22/19 14:52 EST		0	Thunderstorm Wind (EG 50 kt)
	07/22/19 14:52 EST		0	Source: State Official
Several trees were blown down in the vicinity of Greenspring Valley Road and Nacirema Lane.				
<hr/>				
HARFORD COUNTY --- 1.5 SSE BLACK HORSE [39.60, -76.54]				
	07/22/19 14:56 EST		0	Thunderstorm Wind (EG 61 kt)
	07/22/19 14:56 EST		0	Source: Emergency Manager
Several trees were blown down west of Jarrettsville.				
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HARFORD COUNTY --- 2.1 SSW NORRISVILLE [39.67, -76.54]				
	07/22/19 15:00 EST		0	Thunderstorm Wind (EG 61 kt)
	07/22/19 15:00 EST		0	Source: Emergency Manager
At least 5 trees, limbs, and wires were blown down in the Norrisville area.				
<hr/>				
HARFORD COUNTY --- 2.1 NNE JARRETTSVILLE [39.63, -76.47]				
	07/22/19 15:03 EST		0	Thunderstorm Wind (EG 70 kt)
	07/22/19 15:03 EST		0	Source: Emergency Manager
Between 5 to 7 telephone poles were snapped at the base and fell onto Grimmel Farm property along MD-165 Federal Hill Road. Numerous trees or large tree limbs were blown down in the area. A tree was also blown down in the 2100 block of Schuster Road. At least one tree had fallen onto a house.				
<hr/>				
HARFORD COUNTY --- 0.7 S PYLESVILLE [39.69, -76.37]				
	07/22/19 15:08 EST		0	Thunderstorm Wind (EG 70 kt)
	07/22/19 15:08 EST		0	Source: Emergency Manager
Multiple trees and wires were blown down blocking roads in and around Pylesville.				
<hr/>				
HARFORD COUNTY --- 1.6 W LAUREL BROOK [39.52, -76.46]				
	07/22/19 15:10 EST		0	Thunderstorm Wind (EG 50 kt)
	07/22/19 15:10 EST		0	Source: Emergency Manager
A few trees were blown down in the Fallston area.				
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HARFORD COUNTY --- 0.7 N WHITEFORD [39.71, -76.35]				
	07/22/19 15:11 EST		0	Thunderstorm Wind (EG 70 kt)
	07/22/19 15:11 EST		0	Source: Emergency Manager
Numerous trees were reported down in and around Whiteford.				
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HARFORD COUNTY --- 0.1 S FOREST HILL [39.58, -76.38]				
	07/22/19 15:15 EST		0	Thunderstorm Wind (EG 61 kt)
	07/22/19 15:15 EST		0	Source: Emergency Manager
Several trees and limbs were blown down in the Forest Hill area.				
<hr/>				
HARFORD COUNTY --- 1.1 E SINGER [39.48, -76.31]				
	07/22/19 15:20 EST		0	Thunderstorm Wind (EG 50 kt)
	07/22/19 15:20 EST		0	Source: Emergency Manager
A tree was blown down on Preston Lane near Singer Road.				
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HARFORD COUNTY --- 0.7 N DARLINGTON [39.64, -76.20]				

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/22/19 15:23 EST		0	Thunderstorm Wind (EG 61 kt)
	07/22/19 15:23 EST		0	Source: Emergency Manager

A couple of trees were blown down on wires in the Darlington area.

HARFORD COUNTY --- 0.5 W OTTER PT [39.43, -76.26]

07/22/19 15:27 EST	0	Thunderstorm Wind (EG 50 kt)
07/22/19 15:27 EST	0	Source: Emergency Manager

A large tree limb was blown down blocking the roadway near the intersection of Willoughby Beach Road and Harbour Oak Drive.

HARFORD COUNTY --- 1.6 E ABERDEEN ARPT [39.50, -76.15]

07/22/19 15:35 EST	0	Thunderstorm Wind (EG 61 kt)
07/22/19 15:35 EST	0	Source: Emergency Manager

Multiple trees were blown down in the Aberdeen area, mainly just southeast of US-40. Large tree branches were snapped with wires down as well. A few trees were blown down near Aberdeen Proving Ground.

CHARLES COUNTY --- 0.5 W BRYANS ROAD [38.63, -77.08]

07/22/19 19:05 EST	0	Thunderstorm Wind (EG 50 kt)
07/22/19 19:05 EST	0	Source: State Official

Several reports were received of large tree limbs blocking roadways in the Bryans Road and Pomfret areas.

PRINCE GEORGE'S COUNTY --- SILESIA [38.73, -77.00]

07/22/19 19:15 EST	0	Thunderstorm Wind (EG 50 kt)
07/22/19 19:15 EST	0	Source: State Official

Trees and wires were reported down across Fort Washington Road.

MONTGOMERY COUNTY --- 1.5 NNW TAKOMA PARK [38.99, -77.01]

07/22/19 19:43 EST	0	Thunderstorm Wind (EG 50 kt)
07/22/19 19:43 EST	0	Source: Emergency Manager

A tree was blown down on a vehicle in the 500 block of Silver Spring Avenue near Nolte Avenue.

Falling heights, an increasing southwest flow aloft, an approaching cold front, and strengthening pressure trough overhead combined with instability from a hot and humid air mass in place to trigger showers and thunderstorms during the afternoon hours of July 22nd. With high levels of CAPE and increased shear profiles, thunderstorms became strong to severe as they organized into linear structures.

(MD-Z502) CENTRAL AND EASTERN ALLEGANY

07/24/19 04:35 EST	0	Dense Fog
07/24/19 06:35 EST	0	

Light winds combined with clearing skies and lingering low level moisture to produce areas of dense fog in the early morning hours of July 24th.

BALTIMORE COUNTY --- 0.5 E ROGERS FORGE [39.40, -76.59]

07/29/19 17:40 EST	0	Thunderstorm Wind (EG 50 kt)
07/29/19 17:40 EST	0	Source: Trained Spotter

A large tree was snapped in half blocking the 500 block of Joppa Road. Other large branches and small trees were also reported down in the area.

High pressure gradually shifted eastward and off the southeastern US coast through the day on July 29th. This promoted the development of southerly flow and the return of low level moisture. This allowed for the development of marginal instability and a few isolated showers and thunderstorms. One storm became severe.

ALLEGANY COUNTY --- 0.9 SE POTOMAC PARK [39.61, -78.81]

07/30/19 12:52 EST	0	Thunderstorm Wind (EG 50 kt)
07/30/19 12:52 EST	0	Source: State Official

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A tree was blown down on Signal Hill Road near the intersection with Willmans Way. Multiple trees and wires were also blown down near the intersection of Prince William parkway and Yates Ford Road.				

LOUDOUN COUNTY --- 1.4 S LINCOLN [39.10, -77.68]

07/02/19 17:29 EST		0		Thunderstorm Wind (EG 61 kt)
07/02/19 17:29 EST		0		Source: State Official

Several trees were blown down near the intersection of Foundry Road and Taylor Road. A large tree was also blown down near the intersection of Hughesville Road and Ward Hill Road. A tree was blown down near the intersection of Harmony Church Road and Holmes Mill Road.

PRINCE WILLIAM COUNTY --- 2.2 E BUCKHALL [38.73, -77.39]

07/02/19 17:31 EST		0		Thunderstorm Wind (EG 50 kt)
07/02/19 17:31 EST		0		Source: State Official

A tree was blown down on Yates Ford Road near the intersection with Souza Lane. A tree was also blown down near the intersection of Turkey Run Court and Occoquan Forest Drive.

FAUQUIER COUNTY --- 3.8 E HALFWAY [38.92, -77.66]

07/02/19 17:54 EST		0		Thunderstorm Wind (EG 50 kt)
07/02/19 17:54 EST		0		Source: Trained Spotter

Trees were blown down near the intersection of Ridge Road and Summit Drive.

ROCKINGHAM COUNTY --- 0.5 W MC GAHEYSVILLE [38.37, -78.74]

07/02/19 18:14 EST		0		Thunderstorm Wind (EG 61 kt)
07/02/19 18:14 EST		0		Source: State Official

Numerous trees were blown down along with minor shingle damage in the Montevideo and McGaheysville area.

FAUQUIER COUNTY --- 1.1 W WARRENTON [38.72, -77.80]

07/02/19 18:28 EST		0		Thunderstorm Wind (EG 50 kt)
07/02/19 18:28 EST		0		Source: State Official

Multiple trees were blown down in and around Warrenton. Large trees were also blown down blocking the 8700 block of Green Road.

FAIRFAX COUNTY --- 1.5 SSE OAKTON [38.86, -77.29]

07/02/19 18:41 EST		0		Thunderstorm Wind (EG 61 kt)
07/02/19 18:41 EST		0		Source: County Official

Numerous trees and power lines were blown down in the Old Lee Hills and Country Club Hills neighborhoods in the City of Fairfax. Multiple trees were also blown down around Fairfax Square.

FAIRFAX COUNTY --- LAKE BARCROFT [38.85, -77.20]

07/02/19 18:48 EST		0		Thunderstorm Wind (EG 61 kt)
07/02/19 18:48 EST		0		Source: State Official

Multiple reports of trees, power lines, and poles down in the Annandale to Falls Church area.

ALEXANDRIA (C) COUNTY --- 3.2 W POTOMAC YARD [38.83, -77.14]

07/02/19 18:55 EST		0		Thunderstorm Wind (EG 50 kt)
07/02/19 18:55 EST		0		Source: State Official

A tree was blown down on Chambliss Street.

ALEXANDRIA (C) COUNTY --- 0.7 S ALEXANDRIA [38.81, -77.08]

07/02/19 19:04 EST		0		Thunderstorm Wind (EG 50 kt)
07/02/19 19:04 EST		0		Source: State Official

A tree was blown down at the intersection of Quaker Hill Drive and Yale Drive.

FAIRFAX COUNTY --- 0.5 W ARCTURUS [38.73, -77.06]

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/02/19 19:22 EST		0	Thunderstorm Wind (EG 50 kt)
	07/02/19 19:22 EST		0	Source: State Official

A few trees were blown down in the 8600 block of Plymouth Road.

Increasing temperatures and low level moisture led to developing instability across the region during the day of July 2nd. The strongest mid-level forcing remained to the north across northern PA/OH where a stationary boundary lingered. However a weak upper level shortwave trough moving through did help showers and scattered thunderstorms to develop across portions of the state, and given the instability a few became severe.

ALBEMARLE COUNTY --- 1.5 NNW WARREN [37.79, -78.58]

07/04/19 14:45 EST	0	Thunderstorm Wind (EG 50 kt)
07/04/19 14:45 EST	0	Source: State Official

A tree was blown down at the intersection of James River Road and Porters Road.

Heat and plentiful low level moisture led to the development of instability and therefore scattered showers and thunderstorms during the afternoon of July 4th. While forcing was limited, one of the thunderstorms did briefly become pulse severe.

PAGE COUNTY --- 13.3 E PANORAMA [38.68, -78.07], 12.5 E PANORAMA [38.65, -78.09], 13.1 E PANORAMA [38.64, -78.08], 13.7 E PANORAMA [38.68, -78.07]

07/04/19 20:39 EST	0	Flood (due to Heavy Rain)
07/04/19 21:05 EST	0	Source: River/Stream Gage

The gauge along Battle Run at Laurel Mills showed minor flooding as it rose above flood stage of 11 feet. The water level crested at 11.16 feet at 8:45 PM Eastern Standard Time on July 4th. Red Hill Lane and Laurels Mill Road were flooded.

An isolated flooding incident occurred from heavy rain associated with showers and thunderstorms.

(VA-Z051) CULPEPER, (VA-Z055) STAFFORD, (VA-Z502) SOUTHERN FAUQUIER

07/05/19 01:15 EST	0	Dense Fog
07/05/19 03:15 EST	0	

With light winds overnight following rain from the afternoon and evening of July 4th, areas of dense fog developed across portions of central Virginia in the early morning hours of July 5th.

AUGUSTA COUNTY --- 0.5 W MT SOLON [38.35, -79.09]

07/05/19 16:34 EST	0	Thunderstorm Wind (EG 50 kt)
07/05/19 16:34 EST	0	Source: State Official

A tree was blown down along Natural Chimney Road.

An upper level trough crossed the region during the day of July 5th. Instability was relatively limited due to the prevalence of morning showers and cloud cover, however there was enough to generate showers and thunderstorms during the afternoon hours. One thunderstorm became severe with locally damaging winds.

SHENANDOAH COUNTY --- 0.9 WSW SEVEN FOUNTAINS [38.84, -78.42], 1.0 NNE DETRICK [38.84, -78.42], 1.0 N DETRICK [38.84, -78.42], 0.9 WSW SEVEN FOUNTAINS [38.85, -78.42]

07/05/19 17:30 EST	0	Flood (due to Heavy Rain)
07/05/19 19:30 EST	0	Source: 911 Call Center

Flooding caused Fort Valley Road near the Fire Department to be closed.

PAGE COUNTY --- 0.9 SE LURAY [38.66, -78.46], 1.0 SSE LURAY [38.66, -78.46], 0.6 SSE LURAY [38.66, -78.47], 0.7 SE LURAY [38.66, -78.46]

07/05/19 18:30 EST	0	Flood (due to Heavy Rain)
07/05/19 20:30 EST	0	Source: 911 Call Center

Several roads were closed near Luray, including North Lee Street at West Main Street, Reservoir Avenue, and South Court Street.

PAGE COUNTY --- 1.5 SSW LURAY [38.65, -78.48], 1.6 S LURAY [38.65, -78.47], 1.3 S LURAY [38.65, -78.47], 1.3 SSW LURAY [38.65, -78.48]

07/05/19 18:30 EST	0	Flood (due to Heavy Rain)
07/05/19 20:30 EST	0	Source: 911 Call Center

Lakewood Road was closed due to flooding.

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
AUGUSTA COUNTY --- 0.3 SSE MT SOLON [38.35, -79.08], 0.4 SSE MT SOLON [38.35, -79.08], 0.4 SE MT SOLON [38.35, -79.07], 0.3 SE MT SOLON [38.35, -79.08]				
	07/05/19 18:50 EST		0	Flood (due to Heavy Rain)
	07/05/19 20:50 EST		0	Source: 911 Call Center
The road was closed along the 400 Block of Mossy Creek Road due to flooding.				
AUGUSTA COUNTY --- 1.2 NW MOSCOW [38.33, -79.09], 0.9 S MT SOLON [38.34, -79.08], 0.8 SSW MT SOLON [38.34, -79.09], 1.2 SW MT SOLON [38.34, -79.10]				
	07/05/19 18:54 EST		0	Flood (due to Heavy Rain)
	07/05/19 20:54 EST		0	Source: Public
Water was flowing over Whetstone Draft Road and it was impassable.				
High pressure remained offshore, allowing for plenty of moisture to stream in from the Gulf of Mexico. At the same time, a disturbance passed through the area and this led to the development of showers and thunderstorms. Some produced heavy rainfall that led to instances of flooding.				
ROCKINGHAM COUNTY --- 2.1 N MT CLINTON [38.51, -78.95]				
	07/06/19 15:34 EST		0	Thunderstorm Wind (EG 50 kt)
	07/06/19 15:34 EST		0	Source: State Official
A tree was blown down in the 7000 block of Singers Glen Road blocking one lane of traffic.				
WARREN COUNTY --- 1.6 W RIVERTON [38.95, -78.21]				
	07/06/19 15:45 EST		0	Thunderstorm Wind (EG 50 kt)
	07/06/19 15:45 EST		0	Source: State Official
A tree was blown down onto power lines in the 300 block of West Duck Street.				
LOUDOUN COUNTY --- 2.1 N WATSON [39.03, -77.58]				
	07/06/19 17:20 EST		0	Thunderstorm Wind (EG 50 kt)
	07/06/19 17:20 EST		0	Source: Law Enforcement
A tree was blown down on Marcum Farm Court near the intersection with Evergreen Mills Road.				
LOUDOUN COUNTY --- 1.2 E STERLING [39.00, -77.41]				
	07/06/19 17:45 EST		0	Thunderstorm Wind (EG 61 kt)
	07/06/19 17:45 EST		0	Source: Local Official
Numerous trees were blown down along Sterling Boulevard, some as much as 8 inches in diameter, through the center of Sterling Park. Bleachers were overturned at Bill Allen Field.				
LOUDOUN COUNTY --- 1.6 E STERLING [39.00, -77.40]				
	07/06/19 17:45 EST		0	Thunderstorm Wind (MG 50 kt)
	07/06/19 17:45 EST		0	Source: State Official
A 50 knot wind gust was measured at Sterling Middle School. Several reports of trees down in Sterling, including on North Kennedy Road, Pinewood Court, and North Duke Drive.				
FAIRFAX COUNTY --- 0.7 N HERNDON HGTS [38.99, -77.40]				
	07/06/19 17:46 EST		0	Thunderstorm Wind (EG 50 kt)
	07/06/19 17:46 EST		0	Source: Trained Spotter
A tree was blown down across Forest Ridge Road near Crestview Drive.				
FAIRFAX COUNTY --- 2.6 NW RESTON [38.99, -77.34]				
	07/06/19 17:57 EST		0	Thunderstorm Wind (EG 50 kt)
	07/06/19 17:57 EST		0	Source: Local Official
Six trees were blown down along VA-7 near Reston.				

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ARLINGTON COUNTY --- 2.1 NNE BARCROFT [38.93, -77.12]				
	07/06/19 18:10 EST	0		Thunderstorm Wind (EG 50 kt)
	07/06/19 18:10 EST	0		Source: Broadcast Media
Several trees and large limbs were blown down along the George Washington Memorial Parkway between I-495 and Chain Bridge.				
An approaching cold front coupled with upper level shortwave energy and instability across the region led to the development of afternoon scattered showers and thunderstorms. Several of these thunderstorms became severe.				
FAIRFAX COUNTY --- 0.7 WSW CROWELLS CORNER [38.95, -77.31], 0.7 WSW CROWELLS CORNER [38.95, -77.31], 0.7 W CROWELLS CORNER [38.95, -77.31], 0.6 W CROWELLS CORNER [38.95, -77.31]				
	07/08/19 07:42 EST	0		Flood (due to Heavy Rain)
	07/08/19 10:42 EST	0		Source: Emergency Manager
Hunter Mill Road was closed due to flooding under the Dulles Toll Road.				
ARLINGTON COUNTY --- 2.5 SSW ROSSLYN [38.85, -77.10], 2.6 SSW ROSSLYN [38.84, -77.09], 2.7 S ROSSLYN [38.84, -77.09], 2.6 S ROSSLYN [38.84, -77.09], 2.5 SSW ROSSLYN [38.85, -77.10]				
	07/08/19 08:16 EST	0		Flash Flood (due to Heavy Rain)
	07/08/19 09:30 EST	0		Source: River/Stream Gage
The water level at Four Mile Run rapidly rose above flood stage of 12 feet at 8:16 AM EST and it crested at 15.30 feet at 8:45 AM EST. Water flooded the north bank into grassy areas and parking lots. Water also approached Arlington Mill road on the south side of the stream and water approached structures on the north side of the stream.				
ALEXANDRIA (C) COUNTY --- 2.1 W ALEXANDRIA [38.82, -77.12], 1.9 WSW ALEXANDRIA [38.81, -77.11], 1.9 WSW ALEXANDRIA [38.81, -77.11], 1.9 WSW ALEXANDRIA [38.81, -77.11], 1.9 WSW ALEXANDRIA [38.81, -77.11]				
	07/08/19 08:38 EST	0		Flash Flood (due to Heavy Rain)
	07/08/19 10:26 EST	0		Source: River/Stream Gage
The water level at Cameron Run rapidly rose above flood stage of 11 feet. The water level crested at 15.7 feet at 9:40 AM EST. Most of Lower Holes Run Trail along Cameron Run was flooded, and backwater flooded areas along Backlick Run upstream of Cameron Run.				
FAIRFAX COUNTY --- 0.5 E SUNSET HILLS [38.95, -77.34], 0.5 E SUNSET HILLS [38.95, -77.34], 0.7 E SUNSET HILLS [38.95, -77.34], 0.7 E SUNSET HILLS [38.95, -77.34]				
	07/08/19 08:44 EST	0		Flash Flood (due to Heavy Rain)
	07/08/19 10:45 EST	0		Source: Public
At least three feet of standing water was in the Wiehle Reston Parking Lot adjacent to the Washington and Old Dominion Railroad Regional Park.				
ALEXANDRIA (C) COUNTY --- 3.2 SSE ALEXANDRIA [38.78, -77.06], 3.2 SSE ALEXANDRIA [38.78, -77.06], 3.2 SSE ALEXANDRIA [38.78, -77.06], 3.2 SSE ALEXANDRIA [38.78, -77.06]				
	07/08/19 08:46 EST	0		Flash Flood (due to Heavy Rain)
	07/08/19 09:47 EST	0		Source: River/Stream Gage
The water level at the New Alexandria stormwater pump station rapidly rose above flood stage of 5.5 feet, cresting at 7.51 feet at 9:15 AM EST, July 8th. This caused widespread street and yard flooding below the pump station, and at least a couple structures were impacted below I Street.				
ALEXANDRIA (C) COUNTY --- 3.1 WSW ALEXANDRIA [38.80, -77.13], 3.2 WSW ALEXANDRIA [38.80, -77.13], 3.1 WSW ALEXANDRIA [38.80, -77.13], 3.0 WSW ALEXANDRIA [38.80, -77.13]				
	07/08/19 08:52 EST	0		Flash Flood (due to Heavy Rain)
	07/08/19 10:12 EST	0		Source: River/Stream Gage
The water level rapidly passed flood stage of 6 feet, chresting at 9.03 feet on July 8th at 9:27 AM EST.				
FAIRFAX COUNTY --- 0.7 E HERNDON [38.97, -77.37], 0.7 E HERNDON [38.97, -77.37], 0.7 E HERNDON [38.97, -77.37], 0.8 E HERNDON [38.97, -77.37]				
	07/08/19 08:56 EST	0		Flood (due to Heavy Rain)
	07/08/19 11:56 EST	0		Source: Public
Sugarland Run was out of its banks with flooding near the Stuart Woods Apartments.				

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ARLINGTON COUNTY --- 0.7 S ARLINGTON [38.87, -77.13], 0.7 S ARLINGTON [38.87, -77.13], 0.7 S ARLINGTON [38.87, -77.13], 0.7 S ARLINGTON [38.87, -77.13]				
	07/08/19 09:00 EST		0	Flash Flood (due to Heavy Rain)
	07/08/19 12:00 EST		0	Source: Broadcast Media
A steel and concrete pedestrian bridge was washed away along Four Mile Run in Bluemont Park.				
FAIRFAX COUNTY --- 1.4 SW MERRIFIELD [38.85, -77.25], 1.1 W TREMONT [38.85, -77.24], 0.8 WSW TREMONT [38.85, -77.23], 1.1 WSW TREMONT [38.85, -77.24]				
	07/08/19 09:01 EST		0	Flash Flood (due to Heavy Rain)
	07/08/19 11:53 EST		0	Source: River/Stream Gage
Accotink Creek rapidly rose above flood stage of 9.5 feet. Woodburn Road and Prosperity Avenue were flooded at Accotink Creek. Water reached the outbuilding near Braddock Road and it covered ballfields at Wakefield Park.				
FAIRFAX COUNTY --- 0.3 S CULMORE [38.87, -77.17], 0.4 S CULMORE [38.86, -77.17], 0.4 S CULMORE [38.86, -77.17], 0.3 S CULMORE [38.87, -77.17]				
	07/08/19 09:15 EST		0	Flash Flood (due to Heavy Rain)
	07/08/19 12:00 EST		0	Source: Law Enforcement
Holmes Run road was closed due to flooding near the intersection with Cedarwood Drive.				
FAIRFAX COUNTY --- 0.4 S CHESTERBROOK WOODS [38.92, -77.17], 0.4 S CHESTERBROOK WOODS [38.92, -77.17], 0.3 S CHESTERBROOK WOODS [38.93, -77.17], 0.3 SSE CHESTERBROOK WOODS [38.93, -77.17]				
	07/08/19 09:15 EST		0	Flash Flood (due to Heavy Rain)
	07/08/19 12:15 EST		0	Source: Law Enforcement
Dempsey Street was closed due to flooding near the intersection with Old Chesterbrook Road.				
FAIRFAX COUNTY --- 0.5 ENE SUNSET HILLS [38.95, -77.34], 0.5 E SUNSET HILLS [38.95, -77.34], 0.6 E SUNSET HILLS [38.95, -77.34], 0.6 E SUNSET HILLS [38.95, -77.34]				
	07/08/19 09:15 EST		0	Flash Flood (due to Heavy Rain)
	07/08/19 12:15 EST		0	Source: Law Enforcement
Sunset Hills Road was closed due to flooding near the intersection with Metro Center Drive.				
FAIRFAX COUNTY --- 0.5 ESE RESTON [38.97, -77.29], 0.5 ESE RESTON [38.97, -77.29], 0.5 ESE RESTON [38.97, -77.29], 0.5 ESE RESTON [38.97, -77.29]				
	07/08/19 09:15 EST		0	Flash Flood (due to Heavy Rain)
	07/08/19 12:15 EST		0	Source: Law Enforcement
Colvin Run Road was closed due to flooding at Leesburg Pike.				
FAIRFAX COUNTY --- 0.5 NE CROWELLS CORNER [38.96, -77.29], 0.4 NE CROWELLS CORNER [38.95, -77.29], 0.6 E CROWELLS CORNER [38.95, -77.29], 0.6 ENE CROWELLS CORNER [38.95, -77.29]				
	07/08/19 09:15 EST		0	Flash Flood (due to Heavy Rain)
	07/08/19 12:15 EST		0	Source: Law Enforcement
Browns Mill Road was closed due to flooding between Windstone Drive and Rosewood Hill Drive.				
FAIRFAX COUNTY --- 0.6 NNW CLARKS CROSSING [38.93, -77.30], 0.6 NNW CLARKS CROSSING [38.93, -77.31], 0.9 NNW CLARKS CROSSING [38.93, -77.31], 0.8 NNW CLARKS CROSSING [38.93, -77.30]				
	07/08/19 09:15 EST		0	Flash Flood (due to Heavy Rain)
	07/08/19 12:15 EST		0	Source: Law Enforcement
Hunter Mill Road was closed due to flooding between Cedar Pond Drive and Hunter Station Road.				
FAIRFAX COUNTY --- 0.6 S CHESTERBROOK GARDENS [38.89, -77.20], 0.6 S CHESTERBROOK GARDENS [38.89, -77.20], 0.6 SSE CHESTERBROOK GARDENS [38.89, -77.20], 0.6 SSE CHESTERBROOK GARDENS [38.89, -77.20]				
	07/08/19 09:15 EST		0	Flash Flood (due to Heavy Rain)
	07/08/19 12:15 EST		0	Source: Law Enforcement
Shreve Road was closed due to flooding between Wieland Place and Buckelew Drive.				

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
FAIRFAX COUNTY --- 0.6 WSW DUNN LORING [38.88, -77.24], 0.6 WSW DUNN LORING [38.88, -77.24], 0.6 WSW DUNN LORING [38.88, -77.24], 0.6 WSW DUNN LORING [38.88, -77.24]				
	07/08/19 09:15 EST		0	Flash Flood (due to Heavy Rain)
	07/08/19 12:00 EST		0	Source: Law Enforcement
Hilltop Road was closed due to flooding between Willomere Drive and Old Lee Highway.				
FAIRFAX COUNTY --- 0.8 NW SWINKS MILL [38.96, -77.21], 0.8 NW SWINKS MILL [38.96, -77.21], 0.8 NW SWINKS MILL [38.96, -77.21], 0.8 NW SWINKS MILL [38.96, -77.21]				
	07/08/19 09:15 EST		0	Flash Flood (due to Heavy Rain)
	07/08/19 12:15 EST		0	Source: Law Enforcement
One lane of Georgetown Pike was closed due to flooding near the intersection with Potomac River Road.				
FAIRFAX COUNTY --- 0.9 ESE RESTON [38.97, -77.29], 0.9 ESE RESTON [38.97, -77.29], 0.9 ESE RESTON [38.97, -77.29], 0.9 ESE RESTON [38.97, -77.29]				
	07/08/19 09:15 EST		0	Flash Flood (due to Heavy Rain)
	07/08/19 12:15 EST		0	Source: Law Enforcement
Route 7 was closed near the intersection with Faulkner Drive.				
FAIRFAX COUNTY --- 0.9 ESE VALE [38.87, -77.34], 1.0 SE VALE [38.87, -77.33], 1.0 SE VALE [38.87, -77.34], 0.8 SE VALE [38.87, -77.34]				
	07/08/19 09:15 EST		0	Flash Flood (due to Heavy Rain)
	07/08/19 12:00 EST		0	Source: Law Enforcement
Waples Mill Road was closed due to flooding near the intersection with Oakton Road.				
FAIRFAX COUNTY --- 0.9 NW WELLINGTON [38.76, -77.06], 0.9 SW NEW ALEXANDRIA [38.76, -77.06], 0.8 SW NEW ALEXANDRIA [38.76, -77.06], 0.9 SW NEW ALEXANDRIA [38.76, -77.06]				
	07/08/19 09:15 EST		0	Flash Flood (due to Heavy Rain)
	07/08/19 12:00 EST		0	Source: Law Enforcement
Paul Spring Road was closed due to flooding near the intersection with Fort Hunt Road.				
FAIRFAX COUNTY --- 0.9 SE CLARKS CROSSING [38.91, -77.29], 0.4 SSE CLARKS CROSSING [38.91, -77.30], 0.3 SE CLARKS CROSSING [38.92, -77.30], 0.8 SE CLARKS CROSSING [38.91, -77.29]				
	07/08/19 09:15 EST		0	Flash Flood (due to Heavy Rain)
	07/08/19 12:15 EST		0	Source: Law Enforcement
Lawyers Road was closed due to flooding near the intersection with Helmwood Court and it was also closed between Hunters Mill Road and Lydia Place.				
FAIRFAX COUNTY --- 1.0 WNW ELKINS [38.98, -77.29], 1.0 WNW ELKINS [38.98, -77.29], 0.9 WNW ELKINS [38.98, -77.29], 0.9 WNW ELKINS [38.98, -77.29]				
	07/08/19 09:15 EST		0	Flash Flood (due to Heavy Rain)
	07/08/19 12:15 EST		0	Source: Law Enforcement
Walker Road was closed due to flooding between Sunnybrook Drive and Manning Street.				
FAIRFAX COUNTY --- 1.0 WSW TREMONT [38.85, -77.24], 0.9 WSW TREMONT [38.85, -77.24], 0.8 WSW TREMONT [38.85, -77.23], 0.8 W TREMONT [38.85, -77.24], 0.9 WSW TREMONT [38.85, -77.24]				
	07/08/19 09:15 EST		0	Flash Flood (due to Heavy Rain)
	07/08/19 12:00 EST		0	Source: Law Enforcement
Woodburn Road was closed due to flooding near the intersection with Robey Avenue.				
FAIRFAX COUNTY --- 1.1 NW RESTON [38.98, -77.31], 1.0 NW RESTON [38.98, -77.31], 0.9 NW RESTON [38.98, -77.31], 1.0 NNW RESTON [38.98, -77.31]				
	07/08/19 09:15 EST		0	Flash Flood (due to Heavy Rain)
	07/08/19 12:15 EST		0	Source: Law Enforcement
Springvale Road was closed due to flooding between Brevity Drive and Springvale Court.				

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
FAIRFAX COUNTY --- 1.3 SSW KENMORE [38.93, -77.28], 1.3 SSW KENMORE [38.93, -77.28], 1.2 SSW KENMORE [38.93, -77.28], 1.2 SSW KENMORE [38.93, -77.28]				
	07/08/19 09:15 EST		0	Flash Flood (due to Heavy Rain)
	07/08/19 12:15 EST		0	Source: Law Enforcement
Meadowlark Road was closed due to flooding near the intersection with Brookside Lane.				
FAIRFAX COUNTY --- 1.5 SW MERRIFIELD [38.85, -77.25], 1.4 N ILDA [38.85, -77.25], 1.4 N ILDA [38.85, -77.25], 1.4 W TREMONT [38.85, -77.25]				
	07/08/19 09:15 EST		0	Flash Flood (due to Heavy Rain)
	07/08/19 12:00 EST		0	Source: Law Enforcement
Prosperity Road was closed due to flooding near the intersection with Morningside Drive.				
FAIRFAX COUNTY --- 1.7 S KENMORE [38.93, -77.27], 1.7 S KENMORE [38.93, -77.27], 1.7 N VIENNA [38.92, -77.26], 1.8 SSE KENMORE [38.93, -77.26]				
	07/08/19 09:15 EST		0	Flash Flood (due to Heavy Rain)
	07/08/19 12:15 EST		0	Source: Law Enforcement
Old Courthouse Road was closed due to flooding near the intersection with Besley Road.				
FAIRFAX COUNTY --- 1.8 ESE ENGLSIDE [38.72, -77.12], 1.6 ESE ENGLSIDE [38.72, -77.12], 1.5 ESE ENGLSIDE [38.72, -77.12], 1.6 ESE ENGLSIDE [38.72, -77.12]				
	07/08/19 09:15 EST		0	Flash Flood (due to Heavy Rain)
	07/08/19 12:00 EST		0	Source: Emergency Manager
The southbound Lane of Richmond Highway was closed due to flooding.				
FAIRFAX COUNTY --- 0.5 S ELKINS [38.97, -77.27], 0.7 S ELKINS [38.97, -77.27], 0.6 S ELKINS [38.97, -77.27], 0.5 SSE ELKINS [38.97, -77.27]				
	07/08/19 10:37 EST		0	Flash Flood (due to Heavy Rain)
	07/08/19 11:53 EST		0	Source: River/Stream Gage
The gauge at Difficult Run rapidly rose above flood stage of 11 feet at 10:37 AM EST. Leigh Mill Road was flooded as a result.				
FAIRFAX COUNTY --- 0.5 S ELKINS [38.97, -77.27], 0.7 S ELKINS [38.97, -77.27], 0.6 S ELKINS [38.97, -77.27], 0.5 SSE ELKINS [38.97, -77.27]				
	07/08/19 11:53 EST		0	Flood (due to Heavy Rain)
	07/08/19 14:40 EST		0	Source: River/Stream Gage
The gauge at Difficult Run crested at 12.59 feet at 12:45 PM EST and remained above flood stage of 11 feet until 2:40 PM EST. Leigh Mill Road was flooded as a result.				
FAIRFAX COUNTY --- 1.4 SW MERRIFIELD [38.85, -77.25], 1.1 W TREMONT [38.85, -77.24], 0.8 WSW TREMONT [38.85, -77.23], 1.1 WSW TREMONT [38.85, -77.24]				
	07/08/19 11:53 EST		0	Flood (due to Heavy Rain)
	07/08/19 14:33 EST		0	Source: River/Stream Gage
Accotink Creek crested at 12.61 feet at 12:30 PM EST. Woodburn Road and Prosperity Avenue were flooded at Accotink Creek. Water reached the outbuilding near Braddock Road and it covered ballfields at Wakefield Park.				
A nearly stationary boundary set up near the Potomac River weak low pressure developed along the boundary. There was plenty of moisture in place from the Atlantic and Gulf of Mexico, and this combined with instability to produce very heavy rainfall rates in convection that developed. Convection was maximized around the boundary across northern Virginia near the Potomac River, and this led to several instances of flooding and flash flooding.				
SHENANDOAH COUNTY --- 0.5 E MEEMS [38.72, -78.66]				
	07/11/19 14:19 EST		0	Thunderstorm Wind (EG 50 kt)
	07/11/19 14:19 EST		0	Source: Public
Several trees were blown down on Wissler Road near the intersection of I-81. A tree was also blown down on Turkey Knob Road, and a tree limb was blown down on Kibler Road.				
AUGUSTA COUNTY --- 2.1 NE STUARTS DRAFT [38.05, -79.00]				
	07/11/19 15:11 EST		0	Thunderstorm Wind (EG 50 kt)
	07/11/19 15:11 EST		0	Source: State Official

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A tree was blown down on Sherwood Drive.				
WAYNESBORO (C) COUNTY --- 3.3 WSW WAYNESBORO [38.06, -78.94]				
	07/11/19 15:20 EST	0		Thunderstorm Wind (EG 50 kt)
	07/11/19 15:20 EST	0		Source: State Official
A tree was blown down on Red Top Orchard Road between Harvard Road and Apple Tree Lane.				
RAPPAHANNOCK COUNTY --- 2.7 W AMISSVILLE [38.67, -78.05]				
	07/11/19 15:35 EST	0		Thunderstorm Wind (EG 50 kt)
	07/11/19 15:35 EST	0		Source: State Official
A tree was blown down across the 500 block of Battle Mountain Road.				
ALBEMARLE COUNTY --- 0.7 S WHITE HALL [38.11, -78.67]				
	07/11/19 15:51 EST	0		Thunderstorm Wind (EG 50 kt)
	07/11/19 15:51 EST	0		Source: State Official
A tree was blown down on White Hall Road near the intersection with Mount Juliet Farm Road. A tree was also blown down near the intersection of Gap Turnpike and Winter Creek Farm Road. Another tree was reported down blocking both lanes of Coulhurst Drive near Falcon Drive.				
ALBEMARLE COUNTY --- 1.3 ESE FREE UNION [38.16, -78.55]				
	07/11/19 16:03 EST	0		Thunderstorm Wind (EG 50 kt)
	07/11/19 16:03 EST	0		Source: State Official
A tree was blown down in the 2000 block of Buck Mountain Road.				
ALBEMARLE COUNTY --- 0.7 S RIO [38.06, -78.47]				
	07/11/19 16:08 EST	0		Thunderstorm Wind (EG 50 kt)
	07/11/19 16:08 EST	0		Source: State Official
A tree was blown down onto a house on Kenwood Lane.				
ALBEMARLE COUNTY --- 0.7 S EASTHAM [38.06, -78.42]				
	07/11/19 16:13 EST	0		Thunderstorm Wind (EG 50 kt)
	07/11/19 16:13 EST	0		Source: State Official
Trees and power lines were blown down in the 2200 block of Stony Point Road.				
A cold front approached from the west during the day of July 11th, with warm and moist air advection occurring on southerly flow. This promoted the development of significant amounts of instability, and that coupled with an approaching shortwave trough and modest shear values, led to the generation of scattered showers and thunderstorms, some of which became severe.				
ROCKINGHAM COUNTY --- 1.1 ESE BERGTON [38.76, -78.91], 1.3 SE BERGTON [38.76, -78.92], 1.1 SSE BERGTON [38.76, -78.92], 0.9 ESE BERGTON [38.76, -78.92]				
	07/11/19 14:20 EST	0		Flood (due to Heavy Rain)
	07/11/19 16:20 EST	0		Source: Broadcast Media
Capon Run exceeded its banks and flooded a driveway bridge.				
RAPPAHANNOCK COUNTY --- 0.9 SE WASHINGTON [38.71, -78.16], 0.8 SSW WASHINGTON [38.71, -78.17], 0.5 SSW WASHINGTON [38.71, -78.18], 0.6 SE WASHINGTON [38.71, -78.16]				
	07/11/19 16:30 EST	0		Flood (due to Heavy Rain)
	07/11/19 18:30 EST	0		Source: Department of Highways
Route 626 was flooded and closed just west of Washington.				
RAPPAHANNOCK COUNTY --- 1.4 S MASSIES CORNER [38.70, -78.12], 1.4 S MASSIES CORNER [38.70, -78.12], 1.1 S MASSIES CORNER [38.70, -78.12], 1.2 S MASSIES CORNER [38.70, -78.12]				
	07/11/19 16:30 EST	0		Flood (due to Heavy Rain)
	07/11/19 18:30 EST	0		Source: Department of Highways
Long Mountain Road was flooded and closed.				

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ALEXANDRIA (C) COUNTY --- 3.2 SSE ALEXANDRIA [38.78, -77.06], 3.2 SSE ALEXANDRIA [38.78, -77.06], 3.2 SSE ALEXANDRIA [38.78, -77.06], 3.2 SSE ALEXANDRIA [38.78, -77.06]				
	07/11/19 17:42 EST		0	Flash Flood (due to Heavy Rain)
	07/11/19 17:49 EST		0	Source: River/Stream Gage
The water level at the New Alexandria stormwater pump station rapidly rose above flood stage of 5.5 feet, cresting at 5.7 feet at 5:13 PM EST on July 11th. Water spilled over near the pump house, flooding the adjacent parking lot.				
A cold front moved into the area on the 11th, and out ahead of the boundary there was a warm and very humid airmass. The warm and humid airmass caused an unstable atmosphere which led to the development of showers and thunderstorms. Storms produced heavy rainfall.				
(VA-Z036) NELSON, (VA-Z037) ALBEMARLE, (VA-Z038) GREENE, (VA-Z039) MADISON, (VA-Z040) RAPPAHANNOCK, (VA-Z050) ORANGE, (VA-Z051) CULPEPER, (VA-Z056) SPOTSYLVANIA, (VA-Z501) NORTHERN FAUQUIER, (VA-Z502) SOUTHERN FAUQUIER				
	07/12/19 03:55 EST		0	Dense Fog
	07/12/19 07:00 EST		0	
Light winds and abundant low level moisture combined to produce areas of dense fog in the early morning hours of July 12th.				
ROCKINGHAM COUNTY --- 1.4 N CHERRY GROVE [38.60, -78.87]				
	07/14/19 15:50 EST		0	Thunderstorm Wind (EG 50 kt)
	07/14/19 15:50 EST		0	Source: State Official
A tree was blown down in the 11000 block of Fort Turkey Trail. A tree was also blown down along Woodlands Church Road near Wengers Mill Road.				
ALBEMARLE COUNTY --- 1.5 NNE MECHAMS RIVER [38.07, -78.66]				
	07/14/19 18:29 EST		0	Thunderstorm Wind (EG 61 kt)
	07/14/19 18:29 EST		0	Source: State Official
Large trees were blown down near the intersection of Three Notched Road and Old Three Notched Road. A tree was blown down onto power lines on Dry Bridge Road. Another tree was blown down near the intersection of Ivy Road and Morgantown Road.				
A weak cold front crossed the region on July 14th, with a warm and moist air mass out ahead of it. This led to the development of instability across the region and along with it a few showers and thunderstorms, a couple of which became severe.				
AUGUSTA COUNTY --- 1.8 NE ARBOR HILL [38.12, -79.13]				
	07/15/19 13:23 EST		0	Thunderstorm Wind (EG 50 kt)
	07/15/19 13:23 EST		0	Source: State Official
A tree was blown down near the intersection of Middlebrook Road and Cedar Green Road.				
AUGUSTA COUNTY --- 1.5 NNW LIPSCOMB [38.04, -78.99]				
	07/15/19 13:40 EST		0	Thunderstorm Wind (EG 50 kt)
	07/15/19 13:40 EST		0	Source: State Official
A tree was blown down in the 300 block of Hall School Road.				
NELSON COUNTY --- 1.1 W NELLYSFORD [37.88, -78.90]				
	07/15/19 14:15 EST		0	Thunderstorm Wind (EG 50 kt)
	07/15/19 14:15 EST		0	Source: Public
Several tree limbs were blown down blocking VA-151 southwest of Wintergreen.				
NELSON COUNTY --- 0.7 S LOVINGSTON [37.76, -78.88]				
	07/15/19 14:50 EST		0	Thunderstorm Wind (EG 50 kt)
	07/15/19 14:50 EST		0	Source: State Official
A tree was blown down on Ridge Lane near the intersection with US-29. Another tree was blown down blocking a portion of US-29 just north of Lovingston.				
HIGHLAND COUNTY --- 32.2 NNW MONTEBELLO [38.29, -79.41]				

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/15/19 15:05 EST		0	Thunderstorm Wind (EG 50 kt)
	07/15/19 15:05 EST		0	Source: Broadcast Media

Two trees were blown down near the 17000 block of US-250 Highland Turnpike.

A frontal boundary stalled across southern and western Virginia during the day on July 15th. Near the frontal boundary a CAPE gradient set up over central and western Virginia. Upper level forcing was minimal to non-existent, but terrain circulations and the stalled boundary were enough for some scattered shower/thunderstorm development given the instability. A couple of these storms became severe.

(VA-Z055) STAFFORD, (VA-Z057) KING GEORGE

07/16/19 12:00 EST	0	Heat
07/16/19 18:00 EST	0	

Temperatures in the 90s combined with dew points in the upper 60s and low 70s to create heat index values in excess of 105 degrees across portions of southern Maryland.

(VA-Z052) PRINCE WILLIAM, (VA-Z053) FAIRFAX, (VA-Z054) ARLINGTON, (VA-Z055) STAFFORD, (VA-Z056) SPOTSYLVANIA, (VA-Z057) KING GEORGE

07/17/19 10:00 EST	0	Heat
07/17/19 17:21 EST	0	

Temperatures in the 90s combined with dew points in the lower 70s to create heat index values in excess of 105 degrees.

ALBEMARLE COUNTY --- CROZET [38.07, -78.70]

07/17/19 14:14 EST	0	Thunderstorm Wind (EG 50 kt)
07/17/19 14:14 EST	0	Source: Public

Multiple trees were blown down in Crozet.

ALBEMARLE COUNTY --- 2.3 WSW EARLYSVILLE [38.16, -78.52]

07/17/19 14:30 EST	0	Thunderstorm Wind (EG 61 kt)
07/17/19 14:30 EST	0	Source: Trained Spotter

Multiple trees were blown down in the Hickory Ridge Farm neighborhood. A tree was also blown down at the intersection of Markwood Road and Buck Mountain Road. A tree was blown down at the intersection of Markwood Road and Flintrock Way. Another tree was blown down near the intersection of Thomfordsen Lane and Advance Mills Road.

RAPPAHANNOCK COUNTY --- 0.5 W CHESTER GAP [38.85, -78.14]

07/17/19 14:50 EST	0	Thunderstorm Wind (EG 50 kt)
07/17/19 14:50 EST	0	Source: State Official

Two reports of trees down in Chester Gap were received.

LOUDOUN COUNTY --- 0.5 E UNISON [39.03, -77.77]

07/17/19 15:19 EST	0	Thunderstorm Wind (EG 50 kt)
07/17/19 15:19 EST	0	Source: State Official

A tree was blown down on St. Louis Road.

FAUQUIER COUNTY --- 1.3 WNW REMINGTON [38.54, -77.82]

07/17/19 15:31 EST	0	Thunderstorm Wind (EG 50 kt)
07/17/19 15:31 EST	0	Source: State Official

Large tree limbs were reported down blocking Freemans Ford Road.

FAUQUIER COUNTY --- 1.1 W WARRENTON [38.72, -77.80]

07/17/19 15:36 EST	0	Thunderstorm Wind (EG 50 kt)
07/17/19 15:36 EST	0	Source: State Official

Multiple trees were reported down in the Warrenton area.

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
LOUDOUN COUNTY --- 2.1 SW LEESBURG [39.10, -77.58]				
	07/17/19 15:36 EST	0		Thunderstorm Wind (EG 50 kt)
	07/17/19 15:36 EST	0		Source: Broadcast Media
A tree was blown down on VA-7 eastbound before US-15.				
FAUQUIER COUNTY --- 2.1 NW CATLETT [38.67, -77.66]				
	07/17/19 15:40 EST	0		Thunderstorm Wind (EG 50 kt)
	07/17/19 15:40 EST	0		Source: State Official
A tree was blown down on Old Dumfries Road.				
FAIRFAX COUNTY --- 1.5 SSW BULL RUN [38.81, -77.49]				
	07/17/19 15:55 EST	0		Thunderstorm Wind (EG 50 kt)
	07/17/19 15:55 EST	0		Source: State Official
Compton Road at Bull Run Post Office Road was partially blocked due to a downed tree.				
FAIRFAX COUNTY --- 0.9 SE BULL RUN [38.82, -77.47]				
	07/17/19 15:57 EST	0		Thunderstorm Wind (EG 61 kt)
	07/17/19 15:57 EST	0		Source: State Official
A downed tree was blocking the roadway in the 15000 block of Compton Road. Lee Highway at White Post Road was also partially blocked due to a downed tree.				
FAIRFAX COUNTY --- 2.1 SW CHANTILLY [38.88, -77.46]				
	07/17/19 16:04 EST	0		Thunderstorm Wind (EG 50 kt)
	07/17/19 16:04 EST	0		Source: State Official
The 14000 block of Conference Center Drive was partially blocked due to a downed tree.				
PRINCE WILLIAM COUNTY --- 1.3 WNW DALE CITY [38.63, -77.32]				
	07/17/19 16:12 EST	0		Thunderstorm Wind (EG 50 kt)
	07/17/19 16:12 EST	0		Source: Trained Spotter
Multiple trees were blown down in the Montclair area.				
FAIRFAX COUNTY --- 0.5 E PENDER [38.87, -77.36]				
	07/17/19 16:14 EST	0		Thunderstorm Wind (EG 61 kt)
	07/17/19 16:14 EST	0		Source: State Official
Multiple trees were reported down in the Fair Oaks area.				
FAIRFAX COUNTY --- 0.5 W CROWELLS CORNER [38.95, -77.31]				
	07/17/19 16:15 EST	0		Thunderstorm Wind (EG 50 kt)
	07/17/19 16:15 EST	0		Source: NWS Employee
Several trees were blown down alongside VA-267 Dulles Toll Road between Wolf Trap and Reston.				
FAIRFAX COUNTY --- 0.9 SW MERRIFIELD [38.86, -77.24]				
	07/17/19 16:17 EST	0		Thunderstorm Wind (EG 50 kt)
	07/17/19 16:17 EST	0		Source: Law Enforcement
A tree was blown down blocking the 3700 block of Prosperity Avenue.				
FAIRFAX COUNTY --- 1.6 W LORTON [38.70, -77.25]				
	07/17/19 16:23 EST	0		Thunderstorm Wind (EG 61 kt)
	07/17/19 16:23 EST	0		Source: State Official
Multiple trees were blown down in West Springfield. Multiple trees were also blown down in the Franconia area.				

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
FAIRFAX COUNTY --- SWINKS MILL [38.95, -77.20]				
	07/17/19 16:23 EST		0	Thunderstorm Wind (EG 50 kt)
	07/17/19 16:23 EST		0	Source: Law Enforcement
Three reports of trees down in McLean were received.				
FAIRFAX COUNTY --- 0.5 SSW COLCHESTER [38.66, -77.23]				
	07/17/19 16:26 EST		0	Thunderstorm Wind (MG 52 kt)
	07/17/19 16:26 EST		0	Source: Mesonet
A wind gust to 52 knots (60 mph) was measured near Occoquan.				
FAIRFAX COUNTY --- 0.9 SW NEW ALEXANDRIA [38.76, -77.06]				
	07/17/19 16:28 EST		0	Thunderstorm Wind (EG 50 kt)
	07/17/19 16:28 EST		0	Source: Broadcast Media
A tree was blown down on George Washington Memorial Parkway after Tulane Drive.				
<p>On July 17th, the remnant circulation of Barry moved into Pennsylvania with a surface pressure trough out ahead of it over the Mid-Atlantic. Out ahead of the circulation, a hot, humid, and unstable air mass was in place, and this helped to initiate scattered to numerous showers and thunderstorms in the afternoon. Some of these thunderstorms became strong to locally severe.</p>				
(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-Z051) CULPEPER, (VA-Z054) ARLINGTON, (VA-Z055) STAFFORD, (VA-Z056) SPOTSYLVANIA, (VA-Z057) KING GEORGE, (VA-Z501) NORTHERN FAUQUIER, (VA-Z502) SOUTHERN FAUQUIER, (VA-Z505) WESTERN LOUDOUN, (VA-Z506) EASTERN LOUDOUN				
	07/19/19 10:00 EST		0	Heat
	07/19/19 20:00 EST		0	
(VA-Z052) PRINCE WILLIAM, (VA-Z053) FAIRFAX				
	07/19/19 10:00 EST		0	Excessive Heat
	07/19/19 20:00 EST		0	
Temperatures from the mid 90s to near 100 degrees combined with dew points near 70 degrees to create dangerously high heat index values.				
(VA-Z025) AUGUSTA, (VA-Z026) ROCKINGHAM, (VA-Z027) SHENANDOAH, (VA-Z029) PAGE, (VA-Z030) WARREN, (VA-Z036) NELSON, (VA-Z037) ALBEMARLE, (VA-Z038) GREENE, (VA-Z039) MADISON, (VA-Z040) RAPPAHANNOCK, (VA-Z050) ORANGE				
	07/20/19 10:00 EST		0	Heat
	07/20/19 20:00 EST		0	
(VA-Z028) FREDERICK, (VA-Z031) CLARKE, (VA-Z051) CULPEPER, (VA-Z052) PRINCE WILLIAM, (VA-Z053) FAIRFAX, (VA-Z054) ARLINGTON, (VA-Z055) STAFFORD, (VA-Z056) SPOTSYLVANIA, (VA-Z057) KING GEORGE, (VA-Z501) NORTHERN FAUQUIER, (VA-Z502) SOUTHERN FAUQUIER, (VA-Z505) WESTERN LOUDOUN, (VA-Z506) EASTERN LOUDOUN				
	07/20/19 10:00 EST		0	Excessive Heat
	07/20/19 20:00 EST		0	
Temperatures from the mid 90s to the lower 100s combined with dew points near 70 degrees to create dangerously high heat index values.				
CLARKE COUNTY --- 2.1 E BRIGGS [39.10, -77.98]				
	07/20/19 18:45 EST		0	Thunderstorm Wind (EG 50 kt)
	07/20/19 18:45 EST		0	Source: State Official
Trees were blown down on Springsbury Road.				
LOUDOUN COUNTY --- 2.3 SSE BLUEMONT [39.09, -77.80]				
	07/20/19 19:12 EST		0	Thunderstorm Wind (EG 50 kt)
	07/20/19 19:12 EST		0	Source: State Official
Multiple trees were blown down on Snickersville Turnpike near Paxson Road.				

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
FAUQUIER COUNTY --- 0.5 NW MEETZE [38.69, -77.76]				
	07/20/19 20:05 EST		0	Thunderstorm Wind (EG 61 kt)
	07/20/19 20:05 EST		0	Source: Public
Multiple trees were blown down just southeast of Warrenton.				
FAIRFAX COUNTY --- 0.7 N JONES CORNERS [38.96, -77.22]				
	07/20/19 20:21 EST		0	Thunderstorm Wind (EG 50 kt)
	07/20/19 20:21 EST		0	Source: Broadcast Media
Multiple trees were blown down on VA-193 Georgetown Pike just west of Centrillion Avenue. A tree was also blown down on wires near the intersection of VA-193 Georgetown Pike and Swinks Mill Road.				
Isolated thunderstorms developed during the evening hours of July 20th as weak shortwave energy from a weakening mesoscale convective vortex acted in concert with local terrain circulations to initiate convection. These isolated thunderstorms became strong to locally severe.				
(VA-Z025) AUGUSTA, (VA-Z026) ROCKINGHAM, (VA-Z027) SHENANDOAH, (VA-Z028) FREDERICK, (VA-Z029) PAGE, (VA-Z030) WARREN, (VA-Z036) NELSON, (VA-Z037) ALBEMARLE, (VA-Z038) GREENE, (VA-Z039) MADISON, (VA-Z040) RAPPAHANNOCK, (VA-Z050) ORANGE				
	07/21/19 10:00 EST		0	Heat
	07/21/19 20:00 EST		0	
(VA-Z031) CLARKE, (VA-Z051) CULPEPER, (VA-Z052) PRINCE WILLIAM, (VA-Z053) FAIRFAX, (VA-Z054) ARLINGTON, (VA-Z055) STAFFORD, (VA-Z056) SPOTSYLVANIA, (VA-Z057) KING GEORGE, (VA-Z501) NORTHERN FAUQUIER, (VA-Z502) SOUTHERN FAUQUIER, (VA-Z505) WESTERN LOUDOUN, (VA-Z506) EASTERN LOUDOUN				
	07/21/19 10:00 EST		0	Excessive Heat
	07/21/19 20:00 EST		0	
Temperatures from the mid 90s to around 100 degrees combined with dew points in the 70s to create dangerously high heat index values.				
ROCKINGHAM COUNTY --- 0.9 SW DAYTON [38.41, -78.94]				
	07/21/19 14:26 EST		0	Thunderstorm Wind (EG 50 kt)
	07/21/19 14:26 EST		0	Source: Broadcast Media
A tree was blown down near Mason Street and John Wayland Highway in Dayton. A tree was also blown down at a residence on Keswick Circle.				
NELSON COUNTY --- 2.3 NNW OAK RIDGE [37.73, -78.90]				
	07/21/19 14:42 EST		0	Thunderstorm Wind (EG 50 kt)
	07/21/19 14:42 EST		0	Source: 911 Call Center
A tree was blown down on Drumheller Orchard Lane. A tree was also blown down in the 5900 block of Laurel Road.				
AUGUSTA COUNTY --- 1.8 WNW SPRING HILL [38.26, -79.08]				
	07/21/19 14:58 EST		0	Thunderstorm Wind (EG 50 kt)
	07/21/19 14:58 EST		0	Source: State Official
A tree was blown down on Middle River Road.				
NELSON COUNTY --- 0.5 E MARTINS STORE [37.90, -78.86]				
	07/21/19 14:58 EST		0	Thunderstorm Wind (EG 50 kt)
	07/21/19 14:58 EST		0	Source: 911 Call Center
Trees were reported down on Rockfish Valley Road.				
AUGUSTA COUNTY --- 1.1 W CHURCHVILLE [38.23, -79.17]				
	07/21/19 15:02 EST		0	Thunderstorm Wind (EG 50 kt)
	07/21/19 15:02 EST		0	Source: Broadcast Media
A tree was blown down near Hanky Mountain Highway and Scenic Highway.				

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ROCKINGHAM COUNTY --- 3.2 SSW CROSS KEYS [38.31, -78.88]				
	07/21/19 15:20 EST	0		Thunderstorm Wind (EG 50 kt)
	07/21/19 15:20 EST	0		Source: Broadcast Media
A tree was blown down across Cross Keys Road.				
AUGUSTA COUNTY --- 0.7 N MT MERIDIAN [38.28, -78.87]				
	07/21/19 15:24 EST	0		Thunderstorm Wind (MG 53 kt)
	07/21/19 15:24 EST	0		Source: Mesonet
A wind gust to 53 knots (61 mph) was measured at Weyers Cave.				
HIGHLAND COUNTY --- 1.1 W MC DOWELL [38.33, -79.50]				
	07/21/19 15:28 EST	0		Thunderstorm Wind (EG 50 kt)
	07/21/19 15:28 EST	0		Source: State Official
A tree was blown down blocking one lane of Bullpasture River Road near McDowell.				
SHENANDOAH COUNTY --- 3.9 SE STRASBURG [38.94, -78.32]				
	07/21/19 16:13 EST	0		Thunderstorm Wind (EG 61 kt)
	07/21/19 16:13 EST	0		Source: State Official
Multiple reports of trees down in the northeastern part of Shenandoah County were received.				
WARREN COUNTY --- 0.7 N FRONT ROYAL WARN ARP [38.93, -78.25]				
	07/21/19 16:13 EST	0		Thunderstorm Wind (EG 50 kt)
	07/21/19 16:13 EST	0		Source: State Official
A tree was blown down on Stoke Airport Road near VA-618.				
PAGE COUNTY --- 1.5 SSW IDA [38.58, -78.43]				
	07/21/19 16:18 EST	0		Thunderstorm Wind (EG 50 kt)
	07/21/19 16:18 EST	0		Source: State Official
A tree was blown down on Ida Road near Ida.				
WARREN COUNTY --- 0.9 SW FRONT ROYAL [38.91, -78.19]				
	07/21/19 16:32 EST	0		Thunderstorm Wind (EG 50 kt)
	07/21/19 16:32 EST	0		Source: State Official
Trees were blown down in the 200 block of Criser Road.				
FREDERICK COUNTY --- 2.1 SE BARTONVILLE [39.10, -78.19]				
	07/21/19 16:54 EST	0		Thunderstorm Wind (EG 50 kt)
	07/21/19 16:54 EST	0		Source: State Official
A tree was blown down near the intersection of Oak Ridge Drive and Laurel Hill Drive. Another tree was blown down on Berkshire Court.				
FREDERICK COUNTY --- 1.4 S BARTONVILLE [39.10, -78.22]				
	07/21/19 17:04 EST	0		Thunderstorm Wind (EG 61 kt)
	07/21/19 17:04 EST	0		Source: Emergency Manager
Multiple trees were blown down in the Stephens City area. Large signs and the roof of a Burger King were damaged.				
SHENANDOAH COUNTY --- WOODSTOCK [38.88, -78.52]				
	07/21/19 17:09 EST	0		Thunderstorm Wind (EG 61 kt)
	07/21/19 17:09 EST	0		Source: State Official
Numerous trees were blown down in and around Woodstock.				
WARREN COUNTY --- 2.8 S FRONT ROYAL [38.88, -78.17]				

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/21/19 17:12 EST		0	Thunderstorm Wind (EG 50 kt)
	07/21/19 17:12 EST		0	Source: State Official
Trees were blown down in the 800 block of Harmony Hollow Road.				
<hr/>				
LOUDOUN COUNTY --- 1.6 SSE WHEATLAND [39.16, -77.66]				
	07/21/19 17:37 EST		0	Thunderstorm Wind (EG 50 kt)
	07/21/19 17:37 EST		0	Source: 911 Call Center
Trees were blown down on Mosswood Drive near Piggot Drive.				
<hr/>				
LOUDOUN COUNTY --- 0.9 NE HAMILTON [39.14, -77.64]				
	07/21/19 17:53 EST		0	Thunderstorm Wind (EG 61 kt)
	07/21/19 17:53 EST		0	Source: Emergency Manager
Roof damage occurred to a home in the 39000 block of Meadowlark Drive near Irene Drive. Multiple trees were blown down in the area between Hamilton and the VA-9/VA-704 intersection, including a tree onto a car. Numerous trees were also blown down in the Paeonian Springs area.				
<hr/>				
LOUDOUN COUNTY --- 1.1 SSW LEESBURG [39.10, -77.56]				
	07/21/19 18:04 EST		0	Thunderstorm Wind (EG 61 kt)
	07/21/19 18:04 EST		0	Source: 911 Call Center
Multiple trees were blown down on Harmony Church Road between US-15 James Monroe Highway and Colonial Highway.				
<hr/>				
LOUDOUN COUNTY --- 2.6 SSW LEESBURG MUNI [39.05, -77.57]				
	07/21/19 18:10 EST		0	Thunderstorm Wind (MG 50 kt)
	07/21/19 18:10 EST		0	Source: Trained Spotter
A wind gust to 50 knots (58 mph) was measured.				
<hr/>				
LOUDOUN COUNTY --- 0.5 W LEESBURG MUNI [39.08, -77.56]				
	07/21/19 18:15 EST		0	Thunderstorm Wind (MG 51 kt)
	07/21/19 18:15 EST		0	Source: AWOS
A wind gust to 51 knots (59 mph) was measured at Leesburg Executive Airport.				
<hr/>				
LOUDOUN COUNTY --- 2.1 SE LEESBURG [39.10, -77.52]				
	07/21/19 18:22 EST		0	Thunderstorm Wind (EG 50 kt)
	07/21/19 18:22 EST		0	Source: Trained Spotter
Multiple trees were blown down and fence was blown over just east of Leesburg.				
<hr/>				
FAIRFAX COUNTY --- 1.0 WNW MC LEAN HAMLET [38.93, -77.25]				
	07/21/19 18:44 EST		0	Thunderstorm Wind (EG 50 kt)
	07/21/19 18:44 EST		0	Source: NWS Employee
A large tree was blown down blocking the right lane of VA-267 Dulles Toll Road just east of VA-7 Leesburg Pike.				
<p>An upper level ridge that was in place began to break down during the afternoon hours of July 21st as a cold front moved through the Midwest and an upper-level trough dug into the northern Plains. This allowed additional moisture into the area and when combined with a weakening capping inversion from height falls it was enough for scattered showers and thunderstorms to develop. With substantial instability, some of these thunderstorms became strong to locally severe.</p>				
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WARREN COUNTY --- 2.4 WNW BROWNTOWN [38.81, -78.27], 2.4 WNW BROWNTOWN [38.81, -78.27], 2.4 WNW BROWNTOWN [38.81, -78.27], 2.4 WNW BROWNTOWN [38.81, -78.27]				
	07/21/19 17:56 EST		0	Flood (due to Heavy Rain)
	07/21/19 19:56 EST		0	Source: 911 Call Center
The 1900 Block of Shangri-LA Road was closed by high water.				
<hr/>				
SHENANDOAH COUNTY --- WOODSTOCK [38.88, -78.52], 1.2 NE WOODSTOCK [38.89, -78.50], 1.8 E WOODSTOCK [38.88, -78.49], 1.1 SE WOODSTOCK [38.87, -78.50]				

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/21/19 18:00 EST		0	Flash Flood (due to Heavy Rain)
	07/21/19 20:00 EST		0	Source: 911 Call Center

Multiple roads were closed due to flash flooding around Woodstock.

WARREN COUNTY --- 0.8 SSW BOYDS XRDS [38.82, -78.23], 0.9 SSW BOYDS XRDS [38.82, -78.23], 0.9 SSW BOYDS XRDS [38.82, -78.23], 0.8 SSW BOYDS XRDS [38.82, -78.23]

07/21/19 18:00 EST	0	Flood (due to Heavy Rain)
07/21/19 20:00 EST	0	Source: 911 Call Center

The 500 Block of Browntown Road was closed by high water.

A weak boundary stalled out nearby, and this triggered a few showers and thunderstorms. The steering flow aloft was very light, so storms were slow to move. This resulted in a few instances of flooding and flash flooding.

CLARKE COUNTY --- 2.6 NW BOYCE [39.13, -78.08]

07/22/19 13:00 EST	0	Thunderstorm Wind (EG 50 kt)
07/22/19 13:00 EST	0	Source: State Official

A tree was blown down on Salem Church Road near Pyletown Road.

LOUDOUN COUNTY --- 2.1 NNE BRITAIN [39.28, -77.67]

07/22/19 13:39 EST	0	Thunderstorm Wind (EG 50 kt)
07/22/19 13:39 EST	0	Source: Department of Highways

Multiple trees were blown down in the area of Mountain Road and Irish Corner Road.

LOUDOUN COUNTY --- 2.1 NNE BRITAIN [39.28, -77.67]

07/22/19 13:41 EST	0	Thunderstorm Wind (EG 61 kt)
07/22/19 13:41 EST	0	Source: Emergency Manager

A tree was blown down blocking Tollhouse Road midway between Berlin Turnpike and Dutchmans Creek Road. A tree was also blown down in the 14000 block of Milltown Road. Another tree was blown down in the 3900 block of Tollhouse Road. A tree was blown down on Lovettsville Road near Milltown Road. A tree was also down on Lovettsville Road near Downey Mill Road.

LOUDOUN COUNTY --- 0.7 N STUMPTOWN [39.21, -77.55]

07/22/19 13:46 EST	0	Thunderstorm Wind (EG 50 kt)
07/22/19 13:46 EST	0	Source: State Official

A tree was reported down on Newvalley Church Road at Stumptown Road. Another tree was blown down on Taylorstown Road near Lovettsville Road.

NELSON COUNTY --- 0.7 S PINEY RIVER [37.71, -79.02]

07/22/19 16:37 EST	0	Thunderstorm Wind (EG 50 kt)
07/22/19 16:37 EST	0	Source: Trained Spotter

A tree was blown down across a portion of Patrick Henry Highway just north of the bridge/Amherst County line.

NELSON COUNTY --- 2.3 SSW ADIAL [37.82, -78.84]

07/22/19 16:50 EST	0	Thunderstorm Wind (EG 61 kt)
07/22/19 16:50 EST	0	Source: State Official

Several trees were blown down along US-29 north of Lovington.

ALBEMARLE COUNTY --- 0.9 NE NORTH GARDEN [37.94, -78.64]

07/22/19 17:10 EST	0	Thunderstorm Wind (EG 50 kt)
07/22/19 17:10 EST	0	Source: State Official

A tree was blown down near Plank Road and Thomas Diary Lane.

ALBEMARLE COUNTY --- 3.6 SSE BLEMHEIM [37.85, -78.48]

07/22/19 17:10 EST	0	Thunderstorm Wind (EG 50 kt)
07/22/19 17:10 EST	0	Source: State Official

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A tree was blown down in the 800 block of Raccoon Ridge Road.				
ALBEMARLE COUNTY --- 3.0 ESE FARMINGTON [38.03, -78.50]				
	07/22/19 17:20 EST		0	Thunderstorm Wind (EG 50 kt)
	07/22/19 17:20 EST		0	Source: Newspaper
A large tree was blown down across Cherry Avenue blocking both lanes across from Buford Middle School.				
ALBEMARLE COUNTY --- 1.8 SW PROFFIT [38.10, -78.45]				
	07/22/19 17:26 EST		0	Thunderstorm Wind (EG 50 kt)
	07/22/19 17:26 EST		0	Source: State Official
A tree was blown down on Polo Grounds Road near Montgomery Ridge Road.				
ORANGE COUNTY --- GORDONSVILLE [38.15, -78.18]				
	07/22/19 17:45 EST		0	Thunderstorm Wind (EG 50 kt)
	07/22/19 17:45 EST		0	Source: State Official
A tree was blown down on US-15 near Cedar Hill Road. Another tree was blown down blocking both lanes of Blue Ridge Parkway at Rocklands Farm Road.				
ORANGE COUNTY --- 0.9 SE ORANGE [38.24, -78.11]				
	07/22/19 17:56 EST		0	Thunderstorm Wind (EG 50 kt)
	07/22/19 17:56 EST		0	Source: State Official
A tree and power lines were blown down near Old Gordonsville Road and US-15.				
ORANGE COUNTY --- 2.1 SSW DANTON [38.15, -77.93]				
	07/22/19 17:58 EST		0	Thunderstorm Wind (EG 61 kt)
	07/22/19 17:58 EST		0	Source: State Official
Three trees were reported down on Zachary Taylor Highway just north of Arrow Point Drive.				
SPOTSYLVANIA COUNTY --- 0.7 N HOLLADAY [38.13, -77.87]				
	07/22/19 17:58 EST		0	Thunderstorm Wind (EG 50 kt)
	07/22/19 17:58 EST		0	Source: State Official
A tree was blown down in the 6300 block of Belmont Road.				
ORANGE COUNTY --- 1.4 N LOCUSTGROVE [38.32, -77.82]				
	07/22/19 18:07 EST		0	Thunderstorm Wind (EG 50 kt)
	07/22/19 18:07 EST		0	Source: State Official
A tree was blown down blocking Zoar Road at Old Office Road.				
SPOTSYLVANIA COUNTY --- 0.5 W POST OAK [38.17, -77.68]				
	07/22/19 18:08 EST		0	Thunderstorm Wind (EG 50 kt)
	07/22/19 18:08 EST		0	Source: State Official
A tree was blown down in the 9500 block of Post Oak Road.				
SPOTSYLVANIA COUNTY --- 2.1 NE PARKER [38.29, -77.72]				
	07/22/19 18:13 EST		0	Thunderstorm Wind (EG 50 kt)
	07/22/19 18:13 EST		0	Source: State Official
A tree was blown down on Orange Plank Road at Hill Ewell Drive.				
SPOTSYLVANIA COUNTY --- 0.9 NW CHANCELLOR [38.28, -77.61]				
	07/22/19 18:15 EST		0	Thunderstorm Wind (EG 50 kt)
	07/22/19 18:15 EST		0	Source: State Official
A tree was blown down on Lewis Thorburn Road near Walnut Street.				

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
STAFFORD COUNTY --- 2.1 NE HARTWOOD [38.44, -77.54]				
	07/22/19 18:30 EST	0		Thunderstorm Wind (EG 50 kt)
	07/22/19 18:30 EST	0		Source: State Official
A tree was blown down at Poplar Road and Stony Hill Road.				
FAUQUIER COUNTY --- ELKRUN [38.55, -77.67]				
	07/22/19 18:36 EST	0		Thunderstorm Wind (EG 50 kt)
	07/22/19 18:36 EST	0		Source: State Official
A tree was blown down blocking the roadway at the intersection of Midland Road and Elk Run Road.				
STAFFORD COUNTY --- 1.8 SW GARRISONVILLE [38.45, -77.44]				
	07/22/19 18:36 EST	0		Thunderstorm Wind (EG 50 kt)
	07/22/19 18:36 EST	0		Source: State Official
A tree was blown down on Embrey Mill Road at Eustis Road.				
STAFFORD COUNTY --- 0.7 N MIDWAY IS [38.51, -77.37]				
	07/22/19 18:42 EST	0		Thunderstorm Wind (EG 50 kt)
	07/22/19 18:42 EST	0		Source: State Official
A tree was blown down on Telegraph Road at Jefferson Davis Highway.				
STAFFORD COUNTY --- 0.9 SE WIDEWATER [38.46, -77.32]				
	07/22/19 18:44 EST	0		Thunderstorm Wind (EG 50 kt)
	07/22/19 18:44 EST	0		Source: State Official
A tree was blown down on Arkendale Road.				
PRINCE WILLIAM COUNTY --- 1.3 WSW JOPLIN [38.56, -77.40]				
	07/22/19 18:48 EST	0		Thunderstorm Wind (EG 50 kt)
	07/22/19 18:48 EST	0		Source: State Official
A tree was blown down in the 17500 block of Joplin Road.				
PRINCE WILLIAM COUNTY --- 1.8 SE HOADLY [38.66, -77.35]				
	07/22/19 19:02 EST	0		Thunderstorm Wind (EG 50 kt)
	07/22/19 19:02 EST	0		Source: Emergency Manager
A tree was blown down blocking the road at Dale Boulevard and Delaney Road.				
FAIRFAX COUNTY --- 1.8 ENE FT BELVOIR [38.71, -77.12]				
	07/22/19 19:11 EST	0		Thunderstorm Wind (EG 50 kt)
	07/22/19 19:11 EST	0		Source: State Official
A tree was blown down near the intersection of Old Mill Road and Patton Boulevard.				
<p>Falling heights, an increasing southwest flow aloft, an approaching cold front, and strengthening pressure trough overhead combined with instability from a hot and humid air mass in place to trigger showers and thunderstorms during the afternoon hours of July 22nd. With high levels of CAPE and increased shear profiles, thunderstorms became strong to severe as they organized into linear structures.</p>				
(VA-Z027) SHENANDOAH, (VA-Z029) PAGE				
	07/24/19 04:35 EST	0		Dense Fog
	07/24/19 06:35 EST	0		
Light winds combined with clearing skies and lingering low level moisture to produce areas of dense fog in the early morning hours of July 24th.				
FAUQUIER COUNTY --- 1.3 ENE AUBURN [38.71, -77.68]				

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/29/19 17:50 EST		0	Thunderstorm Wind (EG 70 kt)
	07/29/19 17:50 EST		0	Source: Public

Dozens of trees were blown down, some snapped, near the intersection of VA-605 and Saddle Ridge Court. A few fences were damaged. One greenhouse was destroyed.

High pressure gradually shifted eastward and off the southeastern US coast through the day on July 29th. This promoted the development of southerly flow and the return of low level moisture. This allowed for the development of marginal instability and a few isolated showers and thunderstorms. One storm became severe.

ALBEMARLE COUNTY --- 1.4 N RIO [38.09, -78.47]

	07/30/19 13:26 EST		0	Thunderstorm Wind (EG 50 kt)
	07/30/19 13:26 EST		0	Source: Public

Multiple trees were blown down in northern Albemarle County between the City of Charlottesville and the Greene County line, including on US-29 Seminole Trail near Gander Drive, the 2600 block of Frays Mill Road, and at the intersection of Earlysville Road and Brighton Drive.

PAGE COUNTY --- 1.8 SE CAMP ROOSEVELT [38.71, -78.51]

	07/30/19 15:14 EST		0	Thunderstorm Wind (EG 50 kt)
	07/30/19 15:14 EST		0	Source: State Official

Multiple trees were blown down near Luray, including near the intersection of VA-475 Fort Valley Road and Cattail Lane, on US-340 northbound near VA-658 Kimball Road/Pass Run Road, and at the intersection of 7th Avenue and 5th Street.

PAGE COUNTY --- 0.9 NE OAKHILL [38.74, -78.41]

	07/30/19 15:18 EST		0	Thunderstorm Wind (EG 50 kt)
	07/30/19 15:18 EST		0	Source: State Official

A tree was blown down in the roadway on Seekford Lane near US-340.

PAGE COUNTY --- 0.5 E RILEYVILLE [38.77, -78.39]

	07/30/19 15:30 EST		0	Thunderstorm Wind (EG 50 kt)
	07/30/19 15:30 EST		0	Source: State Official

Reports were received of a tree and large limbs down in the Rileyville area on Compton Hollow Road and Vaughn Summit Road.

WARREN COUNTY --- BENTONVILLE [38.83, -78.32]

	07/30/19 15:30 EST		0	Thunderstorm Wind (EG 50 kt)
	07/30/19 15:30 EST		0	Source: State Official

A tree was blown down on US-340 in Bentonville.

WARREN COUNTY --- FRONT ROYAL [38.92, -78.18]

	07/30/19 15:50 EST		0	Thunderstorm Wind (EG 50 kt)
	07/30/19 15:50 EST		0	Source: State Official

Reports were received of trees and wires down in Front Royal, including along Westminster Drive.

ALBEMARLE COUNTY --- 0.9 SW EARLYSVILLE [38.16, -78.49]

	07/30/19 17:00 EST		0	Thunderstorm Wind (EG 50 kt)
	07/30/19 17:00 EST		0	Source: State Official

A large tree limb was blown down blocking the 100 block of Buck Mountain Road.

ALBEMARLE COUNTY --- 1.3 ESE (CHO)CHARLOTTESVILLE [38.14, -78.43]

	07/30/19 17:16 EST		0	Thunderstorm Wind (EG 50 kt)
	07/30/19 17:16 EST		0	Source: State Official

A tree was blown down on wires near the intersection of US-29 Seminole Trail and Dew Maw Lane. Another tree was blown down on US-29 Seminole Trail near Cypress Drive blocking northbound lanes.

A cold front and upper level trough approached the region during the afternoon and evening hours of July 30th. This led to scattered showers and thunderstorms to develop and given increasing CAPE and modest shear, a few of these became severe.

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ALBEMARLE COUNTY --- 1.0 SSE PROFFIT [38.11, -78.42], 1.2 SSE PROFFIT [38.10, -78.42], 1.2 SSE PROFFIT [38.10, -78.42], 1.0 SSE PROFFIT [38.11, -78.42]				
	07/30/19 18:27 EST		0	Flood (due to Heavy Rain)
	07/30/19 20:27 EST		0	Source: 911 Call Center
One lane was blocked by high water on Proffit Road near Polo Grounds Road.				
There was an isolated incident of flooding due to locally heavy rain in Albemarle County.				
AUGUSTA COUNTY --- 2.6 SW LONE FOUNTAIN [38.22, -79.21]				
	07/31/19 14:10 EST		0	Hail (1.00 in)
	07/31/19 14:10 EST		0	Source: Broadcast Media
Hail up to the size of quarters (one inch in diameter) was observed.				
AUGUSTA COUNTY --- 2.6 SW LONE FOUNTAIN [38.22, -79.21]				
	07/31/19 14:10 EST		0	Thunderstorm Wind (EG 50 kt)
	07/31/19 14:10 EST		0	Source: Broadcast Media
Multiple trees were blown down in the 300 block of Dry Branch Road and nearby on Jerusalem Chapel Road.				
ROCKINGHAM COUNTY --- 2.1 NNE MC GAHEYSVILLE [38.40, -78.72]				
	07/31/19 14:25 EST		0	Thunderstorm Wind (EG 50 kt)
	07/31/19 14:25 EST		0	Source: Broadcast Media
A few trees were blown down along Lanier Lane in Massanutten, including one onto a residence.				
ROCKINGHAM COUNTY --- 1.8 NE MC GAHEYSVILLE [38.39, -78.71]				
	07/31/19 14:35 EST		0	Thunderstorm Wind (EG 50 kt)
	07/31/19 14:35 EST		0	Source: Public
Two trees were blown down onto a house on Flower Drive.				
MADISON COUNTY --- 0.9 SE RUTH [38.39, -78.31]				
	07/31/19 14:45 EST		0	Thunderstorm Wind (EG 50 kt)
	07/31/19 14:45 EST		0	Source: State Official
A tree was blown down in the 7100 block of Ruth Road.				
ALBEMARLE COUNTY --- 1.3 WSW FREE UNION [38.16, -78.59]				
	07/31/19 15:10 EST		0	Hail (0.88 in)
	07/31/19 15:10 EST		0	Source: Trained Spotter
Hail up to the size of nickels (0.88" in diameter) was observed.				
ALBEMARLE COUNTY --- 0.5 W RED HILL [37.97, -78.63]				
	07/31/19 15:15 EST		0	Thunderstorm Wind (EG 50 kt)
	07/31/19 15:15 EST		0	Source: State Official
Several trees were blown down along US-29 southwest of the City of Charlottesville.				
GREENE COUNTY --- 2.1 NE QUINQUE [38.27, -78.37]				
	07/31/19 15:15 EST		0	Thunderstorm Wind (EG 50 kt)
	07/31/19 15:15 EST		0	Source: State Official
A tree was blown down in the 1800 block of Dairy Road.				
ALBEMARLE COUNTY --- 60.3 N MADISONVILLE [38.04, -78.49]				
	07/31/19 15:25 EST		0	Thunderstorm Wind (EG 50 kt)
	07/31/19 15:25 EST		0	Source: State Official

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Multiple reports were received of trees down in the City of Charlottesville.				
ORANGE COUNTY --- 1.3 WNW SOMERSET [38.23, -78.25]				
	07/31/19 15:27 EST	0		Thunderstorm Wind (EG 50 kt)
	07/31/19 15:27 EST	0		Source: State Official
A tree was blown down on VA-609 Scuffletown Road near Spring Brook Road.				
ALBEMARLE COUNTY --- 0.9 SE STONY PT [38.11, -78.37]				
	07/31/19 15:30 EST	0		Thunderstorm Wind (EG 50 kt)
	07/31/19 15:30 EST	0		Source: State Official
Several trees were blown down on VA-20 in northeastern Albemarle County.				
ORANGE COUNTY --- 2.6 ESE BARBOURSVILLE [38.15, -78.24]				
	07/31/19 15:33 EST	0		Thunderstorm Wind (EG 50 kt)
	07/31/19 15:33 EST	0		Source: State Official
A tree was blown down on US-33 Spotswood Trail near VA-645 Magnolia Road.				
ORANGE COUNTY --- 1.6 E SCUFFLETOWN [38.25, -78.27]				
	07/31/19 15:36 EST	0		Thunderstorm Wind (EG 50 kt)
	07/31/19 15:36 EST	0		Source: COOP Observer
A large maple tree was snapped over driveway of residence in Somerset.				
ORANGE COUNTY --- 0.5 E ORANGE CO ARPT [38.25, -78.04]				
	07/31/19 15:44 EST	0		Thunderstorm Wind (EG 50 kt)
	07/31/19 15:44 EST	0		Source: State Official
A tree was blown down in the 11300 block of VA-625 Porter Road.				
ORANGE COUNTY --- 0.5 E ORANGE [38.25, -78.11]				
	07/31/19 15:50 EST	0		Hail (0.88 in)
	07/31/19 15:50 EST	0		Source: State Official
Hail up to the size of nickels (0.88" in diameter) was observed.				
ORANGE COUNTY --- 1.8 NW DANIEL [38.19, -78.05]				
	07/31/19 15:57 EST	0		Thunderstorm Wind (EG 50 kt)
	07/31/19 15:57 EST	0		Source: State Official
A tree was blown down in the 19000 block of VA-612 Monrovia Road.				
ORANGE COUNTY --- 1.6 E PIERCES SHOP [38.23, -78.02]				
	07/31/19 16:00 EST	0		Hail (1.00 in)
	07/31/19 16:00 EST	0		Source: Broadcast Media
Hail up to the size of quarters (one inch in diameter) was observed.				
SPOTSYLVANIA COUNTY --- 0.9 SE BELMONT [38.14, -77.86]				
	07/31/19 16:10 EST	0		Thunderstorm Wind (EG 50 kt)
	07/31/19 16:10 EST	0		Source: State Official
Tree and wires were blown down near the intersection of Belmont Road and Sunset Harbor Boulevard.				
SPOTSYLVANIA COUNTY --- 2.1 SSE BROCKROAD [38.24, -77.67]				
	07/31/19 16:42 EST	0		Thunderstorm Wind (EG 50 kt)
	07/31/19 16:42 EST	0		Source: State Official
A tree was blown down in the 10600 block of VA-612 Catharpin Road.				

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A surface front moved slowly through the Ohio Valley on the afternoon of July 31st, with a secondary surface trough positioned just east of the I-95 corridor. Aloft, an upper level trough slowly moved across the region. As instability increased during the afternoon hours, scattered showers and thunderstorms developed, and a few became severe.

WEST VIRGINIA, East

JEFFERSON COUNTY --- 0.9 SW CHARLES TOWN [39.29, -77.86], 1.0 SW CHARLES TOWN [39.29, -77.86], 1.3 SW CHARLES TOWN [39.29, -77.87], 1.4 SW CHARLES TOWN [39.28, -77.87], 1.1 SSW CHARLES TOWN [39.29, -77.86]

07/08/19 01:39 EST	0	Flood (due to Heavy Rain)
07/08/19 03:39 EST	0	Source: 911 Call Center

Police reported to the 911 Center that multiple roads in the Charles Town area had 8 to 10 inches of water on them.

JEFFERSON COUNTY --- 0.5 W CHARLES TOWN [39.30, -77.86], 0.8 W CHARLES TOWN [39.30, -77.87], 0.9 SW CHARLES TOWN [39.29, -77.86], 0.6 SW CHARLES TOWN [39.29, -77.86]

07/08/19 01:41 EST	0	Flood (due to Heavy Rain)
07/08/19 04:41 EST	0	Source: 911 Call Center

Police reported to the 911 Center that 8 to 10 inches of water was covering multiple roads.

JEFFERSON COUNTY --- 1.2 W KEARNEYSVILLE [39.38, -77.90], 2.7 WNW KEARNEYSVILLE [39.39, -77.93], 2.6 NW KEARNEYSVILLE [39.40, -77.92], 0.4 NE KEARNEYSVILLE [39.38, -77.88]

07/08/19 01:44 EST	0	Flood (due to Heavy Rain)
07/08/19 04:44 EST	0	Source: 911 Call Center

Police reported to the 911 Center that multiple roads had 8 to 10 inches of water covering them.

A nearly stationary boundary set up near the Potomac River weak low pressure developed along the boundary. There was plenty of moisture in place from the Atlantic and Gulf of Mexico, and this combined with instability to produce very heavy rainfall rates in convection that developed. Convection was maximized around the boundary across near the Potomac River, and this led to several instances of flooding.

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

07/09/19 04:12 EST	0	Dense Fog
07/09/19 05:20 EST	0	

Clearing skies combined with light winds and lingering low level moisture to produce areas of dense fog in the early morning hours of July 9th.

(WV-Z050) HAMPSHIRE, (WV-Z055) HARDY, (WV-Z502) EASTERN GRANT, (WV-Z504) EASTERN MINERAL

07/19/19 10:00 EST	0	Heat
07/19/19 20:00 EST	0	

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

07/19/19 10:00 EST	0	Excessive Heat
07/19/19 20:00 EST	0	

Temperatures well into the 90s combined with dew points near 70 degrees to create dangerously high heat index values.

(WV-Z050) HAMPSHIRE, (WV-Z055) HARDY, (WV-Z502) EASTERN GRANT, (WV-Z504) EASTERN MINERAL

07/20/19 10:00 EST	0	Heat
07/20/19 20:00 EST	0	

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

07/20/19 10:00 EST	0	Excessive Heat
07/20/19 20:00 EST	0	

Temperatures in the 90s combined with dew points near 70 degrees to create dangerously high heat index values.

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
(WV-Z050) HAMPSHIRE, (WV-Z051) MORGAN, (WV-Z055) HARDY, (WV-Z502) EASTERN GRANT, (WV-Z504) EASTERN MINERAL				
	07/21/19 10:00 EST		0	Heat
	07/21/19 20:00 EST		0	
(WV-Z052) BERKELEY, (WV-Z053) JEFFERSON				
	07/21/19 10:00 EST		0	Excessive Heat
	07/21/19 20:00 EST		0	
Temperatures in the 90s combined with dew points in the 70s to create dangerously high heat index values.				
PENDLETON COUNTY --- 0.7 S FRANKLIN [38.64, -79.33]				
	07/21/19 16:25 EST		0	Thunderstorm Wind (EG 50 kt)
	07/21/19 16:25 EST		0	Source: State Official
Trees were blown down in the Franklin area.				
PENDLETON COUNTY --- 0.9 NW HARPER MILL [38.74, -79.44]				
	07/21/19 16:45 EST		0	Thunderstorm Wind (EG 61 kt)
	07/21/19 16:45 EST		0	Source: State Official
Trees were blown down near Riverton.				
PENDLETON COUNTY --- UPPER TRACK [38.78, -79.28]				
	07/21/19 16:50 EST		0	Thunderstorm Wind (EG 50 kt)
	07/21/19 16:50 EST		0	Source: State Official
Trees were blown down in the Upper Tract area.				
GRANT COUNTY --- 0.9 SW PETERSBURG GRANT ARP [38.99, -79.16]				
	07/21/19 17:18 EST		0	Thunderstorm Wind (EG 61 kt)
	07/21/19 17:18 EST		0	Source: Trained Spotter
Two trees were blown down across WV-220/2.				
<p>An upper level ridge that was in place began to break down during the afternoon hours of July 21st as a cold front moved through the Midwest and an upper-level trough dug into the northern Plains. This allowed additional moisture into the area and when combined with a weakening capping inversion from height falls it was enough for scattered showers and thunderstorms to develop. With substantial instability, some of these thunderstorms became strong to locally severe.</p>				
JEFFERSON COUNTY --- 0.7 S MOUNTAIN MISSION [39.24, -77.80]				
	07/22/19 13:27 EST		0	Thunderstorm Wind (EG 50 kt)
	07/22/19 13:27 EST		0	Source: State Official
A tree was blown down on Mountainside Road near Mission Road.				
JEFFERSON COUNTY --- 1.1 E MILLVILLE [39.30, -77.76]				
	07/22/19 13:30 EST		0	Thunderstorm Wind (EG 50 kt)
	07/22/19 13:30 EST		0	Source: Trained Spotter
An 8-inch diameter tree was snapped.				
<p>Falling heights, an increasing southwest flow aloft, an approaching cold front, and strengthening pressure trough overhead combined with instability from a hot and humid air mass in place to trigger showers and thunderstorms during the afternoon hours of July 22nd. With high levels of CAPE and increased shear profiles, thunderstorms became strong to severe as they organized into linear structures.</p>				
(WV-Z050) HAMPSHIRE, (WV-Z055) HARDY, (WV-Z502) EASTERN GRANT, (WV-Z504) EASTERN MINERAL				
	07/24/19 04:35 EST		0	Dense Fog
	07/24/19 06:35 EST		0	
Light winds combined with clearing skies and lingering low level moisture to produce areas of dense fog in the early morning hours of July 24th.				

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
GRANT COUNTY --- MAYSVILLE [39.12, -79.17]				
	07/30/19 15:40 EST		0	Thunderstorm Wind (EG 50 kt)
	07/30/19 15:40 EST		0	Source: Trained Spotter

Numerous large limbs were blown down blocking roadways in the Maysville area, including Hott Hill Road, Brick School Road, and Lunace Creek Highway.

A cold front and upper level trough approached the region during the afternoon and evening hours of July 30th. This led to scattered showers and thunderstorms to develop and given increasing CAPE and modest shear, one of these became severe.

HAMPSHIRE COUNTY --- 0.7 S DONALDSON [39.49, -78.67]				
	07/31/19 14:20 EST		0	Hail (1.00 in)
	07/31/19 14:20 EST		0	Source: Trained Spotter

Hail up to the size of quarters (1.0" in diameter) was reported.

A surface front moved slowly through the Ohio Valley on the afternoon of July 31st, with a secondary surface trough positioned just east of the I-95 corridor. Aloft, an upper level trough slowly moved across the region. As instability increased during the afternoon hours, scattered showers and thunderstorms developed, and one became severe.

GRANT COUNTY --- 0.8 S PETERSBURG GRANT ARP [38.99, -79.15], 0.9 S PETERSBURG GRANT ARP [38.99, -79.15], 0.8 S PETERSBURG GRANT ARP [38.99, -79.15], 0.7 S PETERSBURG GRANT ARP [38.99, -79.15]				
	07/31/19 15:03 EST		0	Flood (due to Heavy Rain)
	07/31/19 17:03 EST		0	Source: 911 Call Center

Johnson Run Road was flooded near the intersection with Wolverton Mountain Road.

An isolated incident of flooding occurred in Grant County due to locally heavy rain.