

## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>ATLANTIC NORTH</b>				
<b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.2 NNE MONROE CREEK [38.23, -76.95]</b>				
	06/02/13 17:00 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	06/02/13 17:00 EST		0	Source: Mesonet
Wind gusts in excess of 36 knots were measured at Monroe Creek.				
<b>PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- 4.3 NNW RIVIERA BEACH [39.22, -76.53]</b>				
	06/02/13 17:30 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	06/02/13 17:36 EST		0	Source: Mesonet
Wind gusts in excess of 33 knots were measured at the Baltimore Key Bridge.				
<b>CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- 6.3 NNW MID BAY BUOY [38.56, -76.41]</b>				
	06/02/13 17:50 EST		0	Marine Thunderstorm Wind (MG 37 kt)
	06/02/13 18:10 EST		0	Source: Buoy
Wind gusts in excess of 37 knots were measured at Gooses Reef.				
<b>CHOPTANK RIVER TO CAMBRIDGE MD AND THE LITTLE CHOPTANK RIVER COUNTY --- 12.2 WNW HORN POINT [38.68, -76.33]</b>				
	06/02/13 18:05 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	06/02/13 18:15 EST		0	Source: Mesonet
Wind gusts in excess of 34 knots were measured at Monroe Creek.				
<b>CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- 5.4 SE SUSQUEHANNA [39.50, -75.99]</b>				
	06/02/13 18:29 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	06/02/13 18:29 EST		0	Source: Mesonet
Wind gusts in excess of 36 knots were measured at North Bay.				
<b>CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- 46.5 N PATUXENT RIVER ASOS [38.96, -76.45]</b>				
	06/02/13 18:30 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	06/02/13 18:30 EST		0	Source: Buoy
Wind gusts in excess of 31 knots were measured at Annapolis Buoy.				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 1.3 ENE STEVENSVILLE [38.99, -76.31]</b>				
	06/02/13 18:37 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	06/02/13 18:37 EST		0	Source: Mesonet
Wind gusts in excess of 34 knots were measured at Kent Island.				
<b>CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- 5.4 SE SUSQUEHANNA [39.50, -75.99]</b>				
	06/02/13 18:39 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	06/02/13 18:39 EST		0	Source: Mesonet
Wind gusts in excess of 36 knots were measured at North Bay.				
<b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.1 E BISHOPS HEAD [38.22, -76.04]</b>				
	06/02/13 20:24 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	06/02/13 20:42 EST		0	Source: Buoy
Wind gusts in excess of 36 knots were measured at Bishops Head.				
<b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.1 ENE BISHOPS HEAD [38.22, -76.04]</b>				
	06/02/13 20:25 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	06/02/13 20:30 EST		0	Source: Buoy
Wind gusts in excess of 35 knots were measured at Bishops Head.				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Low pressure across the Southern Great Lakes with a associated cold front moved eastward through the Ohio Valley. A surface trough was located along Potomac Highlands and dew points rose into the low 70s. Showers and thunderstorms moved across the region.

**CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 2.7 NE MARTIN STATE AIRPORT [39.35, -76.37]**

06/03/13 15:32 EST	0	Marine Thunderstorm Wind (EG 34 kt)
06/03/13 15:32 EST	0	Source: Mesonet

Wind gusts in excess of 32 knots were measured at Hartmiller Island.

A cold front moved slowly through the Mid Atlantic and surface heating in the afternoon led to showers and thunderstorms to form in an unstable environment.

**TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.1 E BISHOPS HEAD [38.22, -76.04]**

06/07/13 11:48 EST	0	Marine Thunderstorm Wind (EG 34 kt)
06/07/13 11:48 EST	0	Source: Mesonet

Wind gusts of 33 knots were measured at Bishops Head.

**TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.1 ENE BISHOPS HEAD [38.22, -76.04]**

06/07/13 11:49 EST	0	Marine Thunderstorm Wind (MG 35 kt)
06/07/13 11:49 EST	0	Source: Mesonet

Winds gusts in excess of 35 knots were measured at Bishops Head.

**CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- 6.3 NNW MID BAY BUOY [38.56, -76.41]**

06/07/13 15:10 EST	0	Marine Thunderstorm Wind (MG 41 kt)
06/07/13 15:10 EST	0	Source: Buoy

Wind gusts of 41 knots were measured at Gooses Reef.

**TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 0.3 NE POTOMAC BUOY [38.03, -76.34]**

06/07/13 17:20 EST	0	Marine Thunderstorm Wind (EG 34 kt)
06/07/13 17:20 EST	0	Source: Buoy

Wind gusts of 31 knots were measured at Potomac Lookout Buoy.

Tropical Storm Andrea was located off the Carolina coast. An inverted trough was located in Southeast VA and through the Chesapeake Bay. Some gusty winds occurred across the lower zones of the Chesapeake Bay.

**CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- THOMAS POINT LIGHT [38.90, -76.44]**

06/10/13 20:00 EST	0	Marine Thunderstorm Wind (EG 34 kt)
06/10/13 20:00 EST	0	Source: Buoy

Wind gusts of 31 knots were measured at Thomas Point Light.

**CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.4 SE TOLLY POINT [38.94, -76.44]**

06/10/13 20:28 EST	0	Marine Thunderstorm Wind (MG 37 kt)
06/10/13 20:38 EST	0	Source: Mesonet

Wind gusts of 37 knots were measured at Tolly Point.

**CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.9 SE GREENBERRY POINT [38.96, -76.45]**

06/10/13 20:30 EST	0	Marine Thunderstorm Wind (EG 34 kt)
06/10/13 20:40 EST	0	Source: Buoy

Wind gusts of 33 knots were measured at Annapolis Buoy.

**CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.2 SE GREENBERRY POINT [38.97, -76.46]**

06/10/13 20:33 EST	0	Marine Thunderstorm Wind (EG 34 kt)
06/10/13 20:33 EST	0	Source: Mesonet

Wind gusts of 32 knots were measured at Greenbury Point.

## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 0.2 NNW PATAPSCO BUOY [39.15, -76.39]</b>				
	06/10/13 20:50 EST	0		Marine Thunderstorm Wind (MG 35 kt)
	06/10/13 21:10 EST	0		Source: Buoy
Wind gusts in excess of 35 knots were measured at Patapsco Buoy.				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- THOMAS POINT LIGHT [38.90, -76.44]</b>				
	06/10/13 21:10 EST	0		Marine Thunderstorm Wind (MG 46 kt)
	06/10/13 21:10 EST	0		Source: Buoy
Wind gusts of 46 knots were measured at Thomas Point Lighthouse.				
<b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.3 SE CRISFIELD [37.97, -75.88]</b>				
	06/10/13 21:43 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	06/10/13 21:48 EST	0		Source: Mesonet
Wind gusts in excess of 32 knots were measured at Crisfield.				
<b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 1.5 NNE CRISFIELD [37.99, -75.87]</b>				
	06/10/13 21:44 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	06/10/13 21:44 EST	0		Source: Mesonet
Wind gusts of 33 knots were measured at Crisfield.				
<b>A warm front moved through the region and the Mid Atlantic was located in the warm moist sector. Convergence led to numerous showers and thunderstorms to develop in an atmosphere with high shear. Heavy rain, damaging winds and tornadoes were observed.</b>				
<b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.3 SE CRISFIELD [37.97, -75.88]</b>				
	06/13/13 01:38 EST	0		Marine Thunderstorm Wind (MG 39 kt)
	06/13/13 01:43 EST	0		Source: Mesonet
Wind gusts of 39 knots were measured at Crisfield(CRS).				
<b>CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- 0.3 WNW SUSQUEHANNA [39.54, -76.07]</b>				
	06/13/13 08:10 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	06/13/13 08:10 EST	0		Source: Mesonet
Wind gusts in excess of 31 knots were measured at the Susquehanna buoy.				
<b>CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 0.2 NNW MILLER ISLAND [39.25, -76.37]</b>				
	06/13/13 08:26 EST	0		Marine Thunderstorm Wind (MG 39 kt)
	06/13/13 08:30 EST	0		Source: Mesonet
Wind gusts in excess of 39 knots were measured at Hartmiller Island.				
<b>CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 0.2 NNW PATAPSCO BUOY [39.15, -76.39]</b>				
	06/13/13 08:30 EST	0		Marine Thunderstorm Wind (MG 39 kt)
	06/13/13 08:30 EST	0		Source: Buoy
Wind gusts in excess of 39 knots were measured at Patapsco Buoy.				
<b>CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 6.7 ENE BALTIMORE APPROACHES BUOY [39.21, -76.25]</b>				
	06/13/13 08:36 EST	0		Marine Thunderstorm Wind (MG 39 kt)
	06/13/13 08:42 EST	0		Source: Mesonet
Wind gusts in excess of 39 knots at Tolchester Beach.				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.2 SE GREENBERRY POINT [38.97, -76.46]</b>				
	06/13/13 08:38 EST	0		Marine Thunderstorm Wind (MG 37 kt)
	06/13/13 08:38 EST	0		Source: Mesonet
Wind gusts in excess of 37 knots were reported at Greenbury Point.				

## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.9 SE GREENBERRY POINT [38.96, -76.45]</b>				
	06/13/13 08:40 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	06/13/13 08:40 EST	0		Source: Buoy
Wind gusts in excess of 33 knots were measured at Annapolis Buoy.				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- THOMAS POINT LIGHT [38.90, -76.44]</b>				
	06/13/13 08:42 EST	0		Marine Thunderstorm Wind (MG 36 kt)
	06/13/13 08:42 EST	0		Source: Buoy
Wind gusts of 36 knots were measured at Thomas Point Lighthouse.				
<b>PATUXENT RIVER TO BROOMES ISLAND MD COUNTY --- 38.1 N PATUXENT RIVER BUOY [38.94, -76.44]</b>				
	06/13/13 08:42 EST	0		Marine Thunderstorm Wind (EG 40 kt)
	06/13/13 08:42 EST	0		Source: Mesonet
Wind gusts of 40 knots were measured at Tolly Point.				
<b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.5 E QUANTICO [38.50, -77.30]</b>				
	06/13/13 14:09 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	06/13/13 14:09 EST	0		Source: AWOS
Wind gusts of 33 knots were measured at Quantico.				
<b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.2 NNE MONROE CREEK [38.23, -76.95]</b>				
	06/13/13 14:15 EST	0		Marine Thunderstorm Wind (MG 44 kt)
	06/13/13 14:20 EST	0		Source: Mesonet
Wind gusts of 44 knots were measured at Monroe Creek.				
<b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 0.3 NW PINEY POINT [38.13, -76.53]</b>				
	06/13/13 14:30 EST	0		Marine Thunderstorm Wind (MG 47 kt)
	06/13/13 14:42 EST	0		Source: Mesonet
Wind gusts of 47 knots were measured at Piney Point.				
<b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 0.4 SE LEWISSETTA [37.99, -76.47]</b>				
	06/13/13 14:48 EST	0		Marine Thunderstorm Wind (EG 38 kt)
	06/13/13 15:12 EST	0		Source: Mesonet
Wind gusts of 38 knots were measured at Lewisetta.				
<b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 0.4 SE LEWISSETTA [37.99, -76.47]</b>				
	06/13/13 14:48 EST	0		Marine Thunderstorm Wind (MG 38 kt)
	06/13/13 15:12 EST	0		Source: Mesonet
Wind gusts of 38 knots were measured at Lewisetta.				
<b>CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- 0.2 NE COVE POINT [38.43, -76.39]</b>				
	06/13/13 14:54 EST	0		Marine Thunderstorm Wind (MG 50 kt)
	06/13/13 15:00 EST	0		Source: Buoy
Wind gusts of 50 knots were measured at Cove Point.				
<b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 0.1 WNW POINT LOOKOUT [38.04, -76.32]</b>				
	06/13/13 14:55 EST	0		Marine Thunderstorm Wind (MG 45 kt)
	06/13/13 16:25 EST	0		Source: Mesonet
Wind gusts of 45 knots were measured at Point Lookout.				
<b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 0.3 NE POTOMAC BUOY [38.03, -76.34]</b>				

## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/13/13 15:00 EST		0	Marine Thunderstorm Wind (MG 47 kt)
	06/13/13 16:20 EST		0	Source: Buoy

Wind gusts of 47 knots were measured at Potomac Point Lookout Buoy.

TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 0.2 NE (DCA)REAGAN NATIONAL AIRPORT [38.85, -77.04]				
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/13/13 15:04 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	06/13/13 15:04 EST		0	Source: ASOS

Wind gusts in excess of 33 knots were measured at Reagan National.

TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.1 E BISHOPS HEAD [38.22, -76.04]				
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/13/13 15:06 EST		0	Marine Thunderstorm Wind (MG 52 kt)
	06/13/13 15:30 EST		0	Source: Mesonet

Wind gusts of 52 knots were measured at Bishops Head.

TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.1 ENE BISHOPS HEAD [38.22, -76.04]				
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/13/13 15:06 EST		0	Marine Thunderstorm Wind (MG 59 kt)
	06/13/13 15:32 EST		0	Source: Mesonet

Wind gusts of 59 knots were measured at Bishops Head (BHD).

TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.4 SSW SMITH ISLAND [37.98, -76.04]				
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/13/13 15:15 EST		0	Marine Thunderstorm Wind (MG 37 kt)
	06/13/13 16:27 EST		0	Source: Mesonet

Wind gusts of 37 knots were measured at Smith Island (SIS).

CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- 6.3 NNW MID BAY BUOY [38.56, -76.41]				
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/13/13 15:20 EST		0	Marine Thunderstorm Wind (MG 47 kt)
	06/13/13 15:30 EST		0	Source: Buoy

Wind gusts of 47 knots were measured at Gooses Reef Buoy.

TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.1 ESE RACCOON POINT [38.14, -75.79]				
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/13/13 15:23 EST		0	Marine Thunderstorm Wind (MG 45 kt)
	06/13/13 15:38 EST		0	Source: Mesonet

Wind gusts of 45 knots were measured at Raccoon Point (RAC).

TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.3 SE CRISFIELD [37.97, -75.88]				
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/13/13 15:23 EST		0	Marine Thunderstorm Wind (MG 42 kt)
	06/13/13 16:28 EST		0	Source: Mesonet

Wind gusts of 42 knots were measured at Crisfield (CRS).

TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 1.5 NNE CRISFIELD [37.99, -75.87]				
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/13/13 15:24 EST		0	Marine Thunderstorm Wind (MG 40 kt)
	06/13/13 16:23 EST		0	Source: Mesonet

Wind gusts of 40 knots were measured at Crisfield.

CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.2 SE GREENBERRY POINT [38.97, -76.46]				
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/13/13 15:38 EST		0	Marine Thunderstorm Wind (MG 59 kt)
	06/13/13 15:48 EST		0	Source: Mesonet

Wind gusts of 59 knots were measured at Greenbury Point (GBY).

TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 57.7 N PINEY POINT [38.96, -76.45]				
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/13/13 15:40 EST		0	Marine Thunderstorm Wind (MG 40 kt)
	06/13/13 15:40 EST		0	Source: Buoy

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Wind gusts of 40 knots were measured at Annapolis Buoy.

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<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.4 SE TOLLY POINT [38.94, -76.44]</b>				
	06/13/13 15:42 EST		0	Marine Thunderstorm Wind (MG 50 kt)
	06/13/13 15:47 EST		0	Source: Mesonet

Wind gusts of 50 knots were measured at Tolly Point.

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<b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 0.4 SE LEWISSETTA [37.99, -76.47]</b>				
	06/13/13 15:42 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	06/13/13 15:42 EST		0	Source: Mesonet

Wind gusts in excess of 33 knots were reported at Lewisetta.

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<b>CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 6.7 ENE BALTIMORE APPROACHES BUOY [39.21, -76.25]</b>				
	06/13/13 15:48 EST		0	Marine Thunderstorm Wind (MG 50 kt)
	06/13/13 15:54 EST		0	Source: Mesonet

Wind gusts of 50 knots were measured at Tolchester Beach.

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<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.3 WSW KENT ISLAND [38.92, -76.36]</b>				
	06/13/13 15:48 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	06/13/13 15:48 EST		0	Source: Mesonet

Wind gusts of 35 knots were measured at Kent Island(KNT).

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<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 1.3 E STEVENSVILLE [38.98, -76.31]</b>				
	06/13/13 15:49 EST		0	Marine Thunderstorm Wind (MG 40 kt)
	06/13/13 15:54 EST		0	Source: Mesonet

Wind gusts of 40 knots were measured at Bayside Elementary School.

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<b>CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 0.2 NNW PATAPSCO BUOY [39.15, -76.39]</b>				
	06/13/13 15:50 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	06/13/13 15:50 EST		0	Source: Buoy

Wind gusts in excess of 31 knots were measured at Patapsco Buoy.

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<b>CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- 5.4 SE SUSQUEHANNA [39.50, -75.99]</b>				
	06/13/13 15:59 EST		0	Marine Thunderstorm Wind (MG 39 kt)
	06/13/13 15:59 EST		0	Source: Mesonet

Wind gusts of 39 knots were measured at North Bay North East.

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<b>CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 4.3 ESE SANDY POINT [38.98, -76.33]</b>				
	06/13/13 16:01 EST		0	Marine Thunderstorm Wind (MG 48 kt)
	06/13/13 16:01 EST		0	Source: Mesonet

Wind gusts of 48 knots were measured at Steventville.

**A cold front stalled across the Mid Atlantic and low pressure formed and moved along it. Southerly flow advected gulf moisture into the region and showers and thunderstorms easily formed. Heavy rain, hail, damaging winds and tornadoes occurred throughout the day.**

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<b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.1 ESE RACCOON POINT [38.14, -75.79]</b>				
	06/16/13 22:33 EST		0	Marine Thunderstorm Wind (MG 44 kt)
	06/16/13 22:38 EST		0	Source: Mesonet

Wind gusts of 44 knots were measured at Raccoon Point.

**High pressure persisted off the eastern seaboard. A trough acted as a convergence zone across the southern portions of the LWX County Warning Area. Thunderstorms that moved over the waters produced gusty winds.**

## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.9 SE GREENBERRY POINT [38.96, -76.45]</b>				
	06/18/13 14:40 EST		0	Marine Thunderstorm Wind (MG 58 kt)
	06/18/13 14:40 EST		0	Source: Buoy
Wind gusts of 58 knots were measured at Annapolis Buoy.				
<b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 0.3 NE POTOMAC BUOY [38.03, -76.34]</b>				
	06/18/13 15:50 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	06/18/13 15:50 EST		0	Source: Buoy
Wind gusts of 35 knots were measured at Potomac Point Lookout.				
<b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.1 ENE BISHOPS HEAD [38.22, -76.04]</b>				
	06/18/13 16:40 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	06/18/13 16:40 EST		0	Source: Mesonet
Wind gusts of 34 knots were measured at Bishops Head (BHD).				
<b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.1 E BISHOPS HEAD [38.22, -76.04]</b>				
	06/18/13 16:42 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	06/18/13 16:42 EST		0	Source: Mesonet
Wind gusts in excess of 31 knots were measured at Bishops Head.				
<b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 0.1 WNW POINT LOOKOUT [38.04, -76.32]</b>				
	06/18/13 17:00 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	06/18/13 17:00 EST		0	Source: Mesonet
Wind gusts in excess of 31 knots were measured at Point Lookout.				
<b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 24.6 ESE POINT LOOKOUT [37.97, -75.88]</b>				
	06/18/13 17:08 EST		0	Marine Thunderstorm Wind (MG 37 kt)
	06/18/13 17:08 EST		0	Source: Mesonet
Wind gusts of 37 knots were measured at Crisfield.				
<b>A weak cold front was stalled over the area. Convergence along the boundary led to heavy showers. A few breaks in the clouds led to an increase in instability and thunderstorms that produced heavy rain in activity.</b>				
<b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.5 E QUANTICO [38.50, -77.30]</b>				
	06/24/13 15:11 EST		0	Marine Thunderstorm Wind (MG 50 kt)
	06/24/13 15:13 EST		0	Source: AWOS
Wind gusts of 50 knots were measured at Quantico.				
<b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 0.3 NW PINEY POINT [38.13, -76.53]</b>				
	06/24/13 16:42 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	06/24/13 16:42 EST		0	Source: Mesonet
Wind gusts in excess of 32 knots were measured at Piney Point.				
<b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 0.3 NE POTOMAC BUOY [38.03, -76.34]</b>				
	06/24/13 18:00 EST		0	Marine Thunderstorm Wind (MG 54 kt)
	06/24/13 18:00 EST		0	Source: Buoy
Wind gusts of 54 knots were measured at Potomac Point Lookout.				
<b>An upper level low was located over the region. Hot and humid conditions were at the surface with cold air aloft. Terrain circulations led to thunderstorm development in a conducive environment in the Potomac Highlands.</b>				
<b>PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- 0.9 SE BALTIMORE CITY [39.27, -76.58]</b>				

## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/25/13 21:30 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	06/25/13 21:30 EST		0	Source: Mesonet

Wind gusts of 32 knots were measured at Baltimore.

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### PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- 4.3 NNW RIVIERA BEACH [39.22, -76.53]

	06/25/13 21:48 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	06/25/13 21:54 EST		0	Source: Mesonet

Wind gusts of 35 knots were measured at Baltimore Key Bridge.

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### CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- 0.3 WNW SUSQUEHANNA [39.54, -76.07]

	06/25/13 21:50 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	06/25/13 22:00 EST		0	Source: Buoy

Wind gusts in excess of 31 knots were measured at Susquehanna Buoy.

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### CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 0.2 NNW MILLER ISLAND [39.25, -76.37]

	06/25/13 21:50 EST		0	Marine Thunderstorm Wind (MG 42 kt)
	06/25/13 21:50 EST		0	Source: Mesonet

Wind gusts of 42 knots were measured at Hartmiller Island.

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### CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- 5.4 SE SUSQUEHANNA [39.50, -75.99]

	06/25/13 21:58 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	06/25/13 21:58 EST		0	Source: Mesonet

Wind gusts of 34 knots were measured at North Bay North East.

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### CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 0.2 NNW PATAPSCO BUOY [39.15, -76.39]

	06/25/13 22:00 EST		0	Marine Thunderstorm Wind (MG 37 kt)
	06/25/13 22:00 EST		0	Source: Buoy

Wind gusts of 37 knots were measured at Patpsco Buoy.

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### CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 6.7 ENE BALTIMORE APPROACHES BUOY [39.21, -76.25]

	06/25/13 22:00 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	06/25/13 22:06 EST		0	Source: Mesonet

Wind gusts of 35 knots were measured at Tolchester Beach.

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### TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 0.2 NE (DCA)REAGAN NATIONAL AIRPORT [38.85, -77.04]

	06/25/13 22:04 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	06/25/13 22:04 EST		0	Source: ASOS

Wind gusts in excess of 33 knots were measured at Reagan National Airport.

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### CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.2 SE GREENBERRY POINT [38.97, -76.46]

	06/25/13 22:08 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	06/25/13 22:13 EST		0	Source: Mesonet

Wind gusts of 35 knots were measured at Greenbury Point.

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### TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 0.6 NW LYLES-CROUCH ACADEMY ALEXANDRIA [38.81, -77.06]

	06/25/13 22:08 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	06/25/13 22:08 EST		0	Source: Mesonet

Wind gusts in excess of 31 knots were measured at Alexandria.

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

	06/25/13 22:10 EST		0	Marine Thunderstorm Wind (MG 37 kt)
	06/25/13 22:30 EST		0	Source: Buoy



## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Wind gusts of 37 knots were measured at Annapolis Buoy.				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.4 SE TOLLY POINT [38.94, -76.44]</b>				
	06/25/13 22:12 EST		0	Marine Thunderstorm Wind (MG 37 kt)
	06/25/13 22:27 EST		0	Source: Mesonet
Wind gusts of 37 knots were measured at Tolly Point.				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.3 WSW KENT ISLAND [38.92, -76.36]</b>				
	06/25/13 22:17 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	06/25/13 22:17 EST		0	Source: Mesonet
Wind gusts in excess of 33 knots were measured at Kent Island.				
<b>CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 4.3 ESE SANDY POINT [38.98, -76.33]</b>				
	06/25/13 22:26 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	06/25/13 22:26 EST		0	Source: Mesonet
Wind gusts in excess of 32 knots were measured at Steventville.				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- THOMAS POINT LIGHT [38.90, -76.44]</b>				
	06/25/13 23:00 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	06/25/13 23:00 EST		0	Source: Buoy
Wind gusts of 36 knots were measured at Thomas Point.				
<b>A subtropical ridge was over the Mid Atlantic with northwesterly flow leading to hot and humid conditions. This led to a unstable atmosphere and thunderstorms formed.</b>				
<b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.2 NNE MONROE CREEK [38.23, -76.95]</b>				
	06/26/13 14:50 EST		0	Marine Thunderstorm Wind (MG 37 kt)
	06/26/13 15:10 EST		0	Source: Mesonet
Wind gusts of 37 knots were measured at Monroe Point.				
<b>CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 6.7 ENE BALTIMORE APPROACHES BUOY [39.21, -76.25]</b>				
	06/26/13 17:06 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	06/26/13 17:12 EST		0	Source: Mesonet
Wind gusts of 36 knots were measured at Tolchester Beach.				
<b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.1 ENE BISHOPS HEAD [38.22, -76.04]</b>				
	06/26/13 19:35 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	06/26/13 19:35 EST		0	Source: Mesonet
Wind gusts in excess of 32 knots were measured at Bishops Head.				
<b>CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- 0.3 WNW SUSQUEHANNA [39.54, -76.07]</b>				
	06/26/13 20:50 EST		0	Marine Thunderstorm Wind (MG 39 kt)
	06/26/13 21:00 EST		0	Source: Mesonet
Wind gusts of 39 knots were measured at Susquehanna River Buoy.				
<b>A subtropical ridge was present over the Mid Atlantic and hot and humid conditions persisted. This led to an unstable atmosphere. A shortwave trough moved into the Mid Atlantic and showers and thunderstorms formed that were capable of strong winds.</b>				
<b>CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- 0.3 WNW SUSQUEHANNA [39.54, -76.07]</b>				
	06/27/13 15:30 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	06/27/13 15:30 EST		0	Source: Buoy
Wind gusts in excess of 33 knots were reported at Susquehanna River Buoy.				
<b>A shortwave trough crossed the region. A warm moist airmass led to a unstable environment and showers and thunderstorms</b>				

## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>occurred near Northeast Maryland.</b>				
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<b>TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 0.2 NE (DCA)REAGAN NATIONAL AIRPORT [38.85, -77.04]</b>				
	06/28/13 14:36 EST	0		Marine Thunderstorm Wind (MG 46 kt)
	06/28/13 14:48 EST	0		Source: ASOS
Wind gusts of 46 knots were measured at Reagan National Airport.				
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<b>TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 1.1 SE LYLES-CROUCH ACADEMY ALEXANDRIA [38.79, -77.04]</b>				
	06/28/13 14:50 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	06/28/13 14:50 EST	0		Source: Buoy
Wind gusts in excess of 31 knots were reported at Upper Potomac Buoy.				
<hr/>				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- THOMAS POINT LIGHT [38.90, -76.44]</b>				
	06/28/13 16:00 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	06/28/13 16:00 EST	0		Source: Mesonet
Wind gusts in excess of 31 knots were measured at Thomas Point Lighthouse.				
<hr/>				
<b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.2 NNE MONROE CREEK [38.23, -76.95]</b>				
	06/28/13 16:10 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	06/28/13 16:10 EST	0		Source: Mesonet
Wind gusts in excess of 31 knots were measured at Monroe Creek.				
<hr/>				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- THOMAS POINT LIGHT [38.90, -76.44]</b>				
	06/28/13 17:00 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	06/28/13 17:00 EST	0		Source: Mesonet
Wind gusts in excess of 32 knots were measured at Thomas Point Lighthouse.				
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<b>CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- 0.2 SSE LOWER HOOPERS ISLAND [38.26, -76.18]</b>				
	06/28/13 17:01 EST	0		Marine Thunderstorm Wind (MG 36 kt)
	06/28/13 17:01 EST	0		Source: Mesonet
Wind gusts of 36 knots were measured at Lower Hooper Island.				
<hr/>				
<b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.1 ENE BISHOPS HEAD [38.22, -76.04]</b>				
	06/28/13 17:19 EST	0		Marine Thunderstorm Wind (MG 50 kt)
	06/28/13 17:36 EST	0		Source: Mesonet
Wind gusts of 50 knots were measured at Bishops Head(BHD).				
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<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.9 SE GREENBERRY POINT [38.96, -76.45]</b>				
	06/28/13 18:40 EST	0		Marine Thunderstorm Wind (MG 37 kt)
	06/28/13 18:50 EST	0		Source: Buoy
Wind gusts of 37 knots were measured at Annapolis Buoy.				
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<b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.3 SE CRISFIELD [37.97, -75.88]</b>				
	06/28/13 18:48 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	06/28/13 18:53 EST	0		Source: Mesonet
Wind gusts in excess of 32 knots were measured at Crisfield(CRS).				
<hr/>				
<b>CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- 6.3 NNW MID BAY BUOY [38.56, -76.41]</b>				
	06/28/13 19:00 EST	0		Marine Thunderstorm Wind (MG 41 kt)
	06/28/13 19:00 EST	0		Source: Buoy
Wind gusts of 41 knots were measured at Gooses Reef.				

## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- 0.2 NE COVE POINT [38.43, -76.39]</b>				
	06/28/13 19:12 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	06/28/13 19:12 EST		0	Source: Mesonet

Wind gusts in excess of 32 knots were measured at Cove Point.

<b>CHOPTANK RIVER TO CAMBRIDGE MD AND THE LITTLE CHOPTANK RIVER COUNTY --- 0.3 NNE CAMBRIDGE [38.57, -76.07]</b>				
	06/28/13 19:12 EST		0	Marine Thunderstorm Wind (MG 38 kt)
	06/28/13 19:18 EST		0	Source: Mesonet

Wind gusts of 38 knots were measured at Cambridge(CAMM2).

**High pressure was anchored off shore while low pressure spun over the Great Lakes. A shortwave trough moved over the region initiating showers and thunderstorms in vicinity of a surface trough.**

<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.2 SE GREENBERRY POINT [38.97, -76.46]</b>				
	06/30/13 11:18 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	06/30/13 11:18 EST		0	Source: Mesonet

Wind gusts in excess of 33 knots were measured at Greenbury Point.

**A plume of moisture continued along the eastern seaboard and multiple shortwave troughs moved over the region. A few showers and thunderstorms formed along a diffuse dew point boundary.**

### DISTRICT OF COLUMBIA

<b>DISTRICT OF COLUMBIA COUNTY --- 0.5 ESE GEORGETOWN [38.92, -77.04]</b>				
	06/13/13 14:59 EST		2K	Thunderstorm Wind (EG 52 kt)
	06/13/13 14:59 EST		0.50K	Source: Broadcast Media

A tree fell onto a car at Willard Road and 18th NW.

<b>DISTRICT OF COLUMBIA COUNTY --- 0.9 SE GEORGETOWN [38.91, -77.04]</b>				
	06/13/13 15:00 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 15:00 EST		0.50K	Source: Department of Highways

There was a tree down across 18th Street NW near P Street NW.

**A cold front stalled across the Mid Atlantic and low pressure formed and moved along it. Southerly flow advected gulf moisture into the region and showers and thunderstorms easily formed. Heavy rain, hail, damaging winds and tornadoes occurred throughout the day.**

<b>DISTRICT OF COLUMBIA COUNTY --- 0.8 ESE BOLLING AFB [38.84, -77.01]</b>				
	06/28/13 14:54 EST		0	Thunderstorm Wind (EG 52 kt)
	06/28/13 14:54 EST		0.50K	Source: 911 Call Center

There was a tree down on 295 near Malcolm X Ave.

**High pressure was anchored off shore while low pressure spun over the Great Lakes. A shortwave trough moved over the region initiating showers and thunderstorms in vicinity of a surface trough.**

<b>DISTRICT OF COLUMBIA COUNTY --- 1.8 N US CAPITOL [38.91, -77.02], 1.8 N US CAPITOL [38.91, -77.02], 1.7 N US CAPITOL [38.90, -77.02], 1.7 N US CAPITOL [38.90, -77.02]</b>				
	06/28/13 15:10 EST		0	Flash Flood (due to Heavy Rain)
	06/28/13 17:10 EST		0	Source: 911 Call Center

There was a car stuck in flood waters in a South Capitol Street underpass.

<b>DISTRICT OF COLUMBIA COUNTY --- 1.0 SE BOLLING AFB [38.84, -77.01], 0.9 SE BOLLING AFB [38.84, -77.01], 1.0 SSE BOLLING AFB [38.84, -77.01], 1.1 SE BOLLING AFB [38.84, -77.01]</b>				
	06/28/13 18:06 EST		0	Flash Flood (due to Heavy Rain)
	06/28/13 20:06 EST		0	Source: Department of Highways

## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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South Capitol Street was flooded and closed at Interstate 295.

High pressure was anchored off shore while low pressure spun over the Great Lakes. A shortwave trough moved over the region initiating showers and thunderstorms in vicinity of a surface trough.

### MARYLAND, Central

#### WASHINGTON COUNTY --- 1.0 S LAPPANS [39.54, -77.75]

06/02/13 14:20 EST	0	Thunderstorm Wind (EG 56 kt)
06/02/13 14:20 EST	12K	Source: Fire Department/Rescue

There were approximately two dozen trees down centered around Fairplay MD.

#### WASHINGTON COUNTY --- 0.9 WNW GRIMES [39.54, -77.78]

06/02/13 14:24 EST	0	Thunderstorm Wind (EG 52 kt)
06/02/13 14:24 EST	0.50K	Source: 911 Call Center

There was a tree down at Spielman Road and Bakersville Road.

Low pressure across the Southern Great Lakes with a associated cold front moved eastward through the Ohio Valley. A surface trough was located along Potomac Highlands and dew points rose into the low 70s. Showers and thunderstorms moved across the region.

#### MONTGOMERY COUNTY --- 0.7 N CLARKSBURG [39.24, -77.28], 0.7 N CLARKSBURG [39.24, -77.28], 0.6 NNW CLARKSBURG [39.24, -77.28], 0.6 NNE CLARKSBURG [39.24, -77.28]

06/10/13 01:48 EST	0	Flash Flood (due to Heavy Rain)
06/10/13 03:48 EST	0	Source: Department of Highways

Several roads were closed in the Clarksburg area due to flooding. The highway department did not have a exact time so time was estimated by radar and when one hour flash flood guidance was reached.

#### BALTIMORE CITY (C) COUNTY --- 0.9 ENE CAMDEN [39.28, -76.61], 0.8 ENE CAMDEN [39.28, -76.61], 0.8 ENE CAMDEN [39.28, -76.61], 0.9 ENE CAMDEN [39.28, -76.61]

06/10/13 15:00 EST	0	Flash Flood (due to Heavy Rain)
06/10/13 17:00 EST	0	Source: Broadcast Media

There was water observed up to the hoods of cars in the 500 block of South Charles Street.

#### MONTGOMERY COUNTY --- 1.1 NNE BURDETTS [39.21, -77.31], 1.0 NNE BURDETTS [39.21, -77.31], 1.0 NNE BURDETTS [39.21, -77.31], 1.0 NE BURDETTS [39.21, -77.31]

06/10/13 18:20 EST	0	Flash Flood (due to Heavy Rain)
06/10/13 20:20 EST	0	Source: 911 Call Center

There was a road closed at West Old Baltimore Road and the Creek.

#### BALTIMORE COUNTY --- 2.0 S CHADWICK MANOR [39.27, -76.74], 1.9 E OELLA [39.27, -76.75], 2.0 ESE OELLA [39.26, -76.74], 2.1 WNW HALETHORPE [39.26, -76.73]

06/10/13 20:25 EST	0	Flash Flood (due to Heavy Rain)
06/10/13 22:25 EST	0	Source: Department of Highways

The Baltimore beltway was flooded at Frederick Road.

#### HARFORD COUNTY --- 36.0 SW WEIDE AAF ARPT [38.98, -76.73], 36.1 SW WEIDE AAF ARPT [38.98, -76.73], 36.2 SW WEIDE AAF ARPT [38.98, -76.73], 36.1 SW WEIDE AAF ARPT [38.98, -76.73]

06/10/13 20:41 EST	0	Flash Flood (due to Heavy Rain)
06/10/13 23:41 EST	0	Source: Department of Highways

There was a road closed due to flooding at Annapolis Road and Superior Lane.

#### HARFORD COUNTY --- 0.4 NNE BEL AIR [39.54, -76.35], 0.4 NNE BEL AIR [39.54, -76.35], 0.3 NNE BEL AIR [39.53, -76.35], 0.4 NE BEL AIR [39.53, -76.35]

## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/10/13 21:50 EST		0	Flash Flood (due to Heavy Rain)
	06/10/13 23:50 EST		0	Source: Department of Highways

There was high water at Route 1 business which closed at two locations in Bel Air.

**A warm front moved through the region and the Mid Atlantic was located in the warm moist sector. Convergence led to numerous showers and thunderstorms to develop in an atmosphere with high shear. Heavy rain, damaging winds and tornadoes were observed.**

**BALTIMORE COUNTY --- 0.6 S FORK [39.46, -76.45], 0.3 NE FORK [39.47, -76.45]**

06/10/13 14:24 EST	1K	Tornado (EF0, L: 0.50 mi , W: 100 yd)
06/10/13 14:28 EST	3K	Source: NWS Storm Survey

Eyewitness accounts and storm damage survey concluded a small tornado occurred in Fork, MD, from approximately 3:28 to 3:30 PM EDT on June 10, 2013.

About six trees were uprooted in the Mount Vista Estates subdivision of Fork along Vista View Court. These trees were a mix of hardwood and softwood, some falling at angles of up to 120 degrees from each other. Several eyewitnesses saw swirling debris within the wind field as the damage was occurring. Additional tree damage along with damage to a wood fence was located across the street from Fork United Methodist Church on Fork Road, approximately 0.5 miles North of the damage in Mount Vista Estates. The survey team crossed the path between these two points, as well as up to two miles on either end of the damage, but no further damage could be found.

**BALTIMORE COUNTY --- 0.9 SW SPARROWS PT [39.26, -76.59], 0.8 WSW SPARROWS PT [39.27, -76.59]**

06/10/13 14:44 EST	10K	Tornado (EF0, L: 0.20 mi , W: 75 yd)
06/10/13 14:44 EST	0	Source: NWS Storm Survey

A metal building structure in the south Locust Point Marine Terminal was damaged when a waterspout over the Patapsco River came onshore, transforming to a small tornado from approximately 3:44 to 3:45 PM EDT on June 10, 2013.

The metal building structure had a portion of its northeast roof peeled up, wrapping it back and folding it over the east-facing side of the building. Additionally, a small trailer on wheels was demolished as it was propelled to the northwest about 60 feet from its position on Cinder Blocks. An air conditioning unit which was permanently installed in the wall of an office on the north facing side of the building in proximity to where the roof damage occurred was blown-in. A large amount of debris was seen plastered to a east-facing chain link fence on the north side of the parking lot.

Areas to the north Marine Terminal were also surveyed, and no further damage was found.

**ST. MARY'S COUNTY --- 0.6 SSW COLTON [38.22, -76.75], 0.3 SSW COLTON [38.23, -76.75]**

06/10/13 20:01 EST	0.50K	Tornado (EF0, L: 0.25 mi , W: 50 yd)
06/10/13 20:01 EST	1K	Source: NWS Storm Survey

A ground survey conducted by the NWS...together with radar data from Andrews AFB Terminal Doppler Weather Radar determined there was a brief EF-0 tornado touchdown in Coltons Point Maryland. Minor tree damage and roof damage was noted in the vicinity of the intersection of Colton Point Road...Rt 242 with Bayview Road and along Beach Road between Charles Hall Road and Point Breeze Road. A few shingles were blown off some structures in this area. A tree came down on wires in the 38300 block of Beach Road. A trampoline near a residence on Colton Point Road next to the town post office was lifted up and became lodged 90 feet up in a nearby tall pine tree. Two large wooden play set were blown...one was dragged about 15 feet. This tornado was likely the extension of a waterspout that crossed the Potomac River just before 9 pm.

**ST. MARY'S COUNTY --- 1.0 NW CHINGVILLE [38.24, -76.56]**

06/10/13 20:18 EST	0	Thunderstorm Wind (EG 50 kt)
06/10/13 20:18 EST	0.25K	Source: Trained Spotter

There were large branches down.

**A warm front moved through the region and the Mid Atlantic was located in the warm moist sector. Convergence led to numerous showers and thunderstorms to develop in an atmosphere with high shear. Heavy rain, damaging winds and tornadoes were observed.**

## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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*A dumpster was moved into a small ditch in Coltons Point.*

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**MONTGOMERY COUNTY --- 1.2 WSW MONTGOMERY VLG [39.16, -77.20], 1.4 WSW MONTGOMERY VLG [39.16, -77.20], 1.4 WSW MONTGOMERY VLG [39.16, -77.20], 1.3 SW MONTGOMERY VLG [39.16, -77.20]**

06/10/13 15:15 EST	0	Flash Flood (due to Heavy Rain)
06/10/13 17:15 EST	0	Source: Trained Spotter

There was flooding at Montgomery Village Golf Club.

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**MONTGOMERY COUNTY --- 0.9 NNE RANDOLPH HILLS [39.09, -77.13], 0.8 N RANDOLPH HILLS [39.09, -77.13], 0.6 N RANDOLPH HILLS [39.09, -77.13], 0.7 NNE RANDOLPH HILLS [39.09, -77.12]**

06/10/13 15:25 EST	0	Flash Flood (due to Heavy Rain)
06/10/13 17:25 EST	0	Source: Public

There was flooding at Norbeck Road and Gude Drive.

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**BALTIMORE COUNTY --- 0.8 SW WOODLAWN [39.31, -76.74], 0.9 SW WOODLAWN [39.31, -76.74], 0.9 SW WOODLAWN [39.31, -76.74], 0.9 SW WOODLAWN [39.31, -76.74]**

06/10/13 15:30 EST	0	Flash Flood (due to Heavy Rain)
06/10/13 17:30 EST	0	Source: Department of Highways

Security Blvd was flooded and closed at the Baltimore Beltway.

## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>BALTIMORE COUNTY --- 0.9 E SHAWAN [39.50, -76.70], 0.5 E SHAWAN [39.50, -76.71], 0.7 SE SHAWAN [39.49, -76.71], 1.0 ESE SHAWAN [39.49, -76.70]</b>				
	06/13/13 08:21 EST		0	Flash Flood (due to Heavy Rain)
	06/13/13 10:21 EST		0	Source: Public
Falls Road was flooded just south of Shawan Road near Oregon Branch.				
<b>HOWARD COUNTY --- 0.8 WNW DORSEY [39.19, -76.76], 1.0 WNW DORSEY [39.19, -76.77], 0.9 WNW DORSEY [39.18, -76.77], 0.7 WNW DORSEY [39.18, -76.76]</b>				
	06/13/13 15:30 EST		0	Flash Flood (due to Heavy Rain)
	06/13/13 17:30 EST		0	Source: NWS Employee
There was flooding on Meadowridge Road at Roosevelt Blvd in Elkridge.				
<b>A cold front stalled across the Mid Atlantic and low pressure formed and moved along it. Southerly flow advected gulf moisture into the region and showers and thunderstorms easily formed. Heavy rain, hail, damaging winds and tornadoes occurred throughout the day.</b>				
<b>WASHINGTON COUNTY --- 1.6 WNW KEEDYSVILLE [39.48, -77.73]</b>				
	06/13/13 06:38 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 06:38 EST		0.50K	Source: Emergency Manager
There was a tree down at 18334 Mansfield Road in Keedysville Maryland.				
<b>FREDERICK COUNTY --- 1.3 NE WALKERSVILLE [39.49, -77.33]</b>				
	06/13/13 06:40 EST		0	Hail (1.00 in)
	06/13/13 06:40 EST		0	Source: Public
<b>FREDERICK COUNTY --- 1.1 WNW WOODSBORO [39.53, -77.34]</b>				
	06/13/13 06:54 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 06:54 EST		2K	Source: Emergency Manager
There were several trees down.				
<b>FREDERICK COUNTY --- 1.8 S LADIESBURG [39.55, -77.27]</b>				
	06/13/13 06:59 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 06:59 EST		2K	Source: Emergency Manager
There were several trees down.				
<b>FREDERICK COUNTY --- 0.9 SSW JOHNSVILLE [39.52, -77.24]</b>				
	06/13/13 07:01 EST		0	Hail (1.25 in)
	06/13/13 07:01 EST		0	Source: Trained Spotter
<b>CARROLL COUNTY --- 4.2 WSW MC KINSTRYS [39.52, -77.24]</b>				
	06/13/13 07:11 EST		0	Hail (1.25 in)
	06/13/13 07:11 EST		0	Source: Trained Spotter
<b>CARROLL COUNTY --- 1.4 W NEW WINDSOR [39.55, -77.13]</b>				
	06/13/13 07:14 EST		0	Hail (1.25 in)
	06/13/13 07:14 EST		0	Source: Trained Spotter
<b>CARROLL COUNTY --- 1.5 WSW SMALLWOOD [39.51, -77.01]</b>				
	06/13/13 07:17 EST		0	Hail (1.50 in)
	06/13/13 07:17 EST		0	Source: Trained Spotter
<b>BALTIMORE COUNTY --- 0.1 W WOODENSBURG [39.50, -76.83]</b>				
	06/13/13 07:34 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 07:34 EST		0.25K	Source: NWS Employee
There was a large tree limb six inches in diameter down.				

## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>HARFORD COUNTY --- 2.5 W PYLESVILLE [39.70, -76.42]</b>				
	06/13/13 07:40 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 07:40 EST		1K	Source: Emergency Manager
Trees were reported down.				
<b>BALTIMORE COUNTY --- 1.0 NNW SWEET AIR [39.53, -76.54]</b>				
	06/13/13 07:46 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 07:46 EST		0.50K	Source: Emergency Manager
There was one tree down at 14910 Dunston Lane.				
<b>HARFORD COUNTY --- 0.9 SSE GIBSON [39.57, -76.32]</b>				
	06/13/13 07:55 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 07:55 EST		2K	Source: Emergency Manager
There were trees reported down.				
<b>ANNE ARUNDEL COUNTY --- 0.2 NW ANNAPOLIS [38.97, -76.50]</b>				
	06/13/13 08:30 EST		5K	Thunderstorm Wind (EG 52 kt)
	06/13/13 08:30 EST		0.50K	Source: Newspaper
A large tree fell next to the Annapolis Police Station on Taylor Street damaging a fence, a vehicle and breaking a window in the building.				
<b>ST. MARY'S COUNTY --- 0.5 S AVENUE [38.24, -76.77]</b>				
	06/13/13 14:21 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 14:21 EST		2K	Source: Trained Spotter
There were multiple 3 to 5 inch in diameter tree branches knocked down from Coltons Point and Waterloo Circle area to Coltons Point and Oakley Road area.				
<b>ST. MARY'S COUNTY --- 0.6 WSW OAKLEY [38.28, -76.74], 0.9 NE CALIFORNIA [38.31, -76.49]</b>				
	06/13/13 14:24 EST		0	Tornado (EF0, L: 13.83 mi , W: 200 yd)
	06/13/13 14:42 EST		5K	Source: NWS Storm Survey
Damage was intermittent along the path and was confined to tree damage and damage resulting from downed trees. Numerous large trees were uprooted and some trees were topped. Many were noted in the vicinity of Oakley Road and Hodges Road between Old Rolling Road and Joan Drive and between Shady Mile Drive and Town Creek Road.				
Thunderstorm wind damage also occurred across Coltons Point between Serenity Lane and Point Breeze Road. Many large trees were uprooted in this area.				
<b>ST. MARY'S COUNTY --- 0.6 N COMPTON [38.28, -76.70]</b>				
	06/13/13 14:27 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 14:27 EST		1K	Source: Public
There were multiple trees down along Lady Baltimore Ave.				
<b>ST. MARY'S COUNTY --- 0.4 NNE AVENUE [38.26, -76.77]</b>				
	06/13/13 14:28 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 14:28 EST		2K	Source: Emergency Manager
There were numerous trees down around Coltons Point.				
<b>ST. MARY'S COUNTY --- 0.5 ESE COMPTON [38.27, -76.69]</b>				
	06/13/13 14:28 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 14:28 EST		0.50K	Source: Trained Spotter
There was a large tree down across Army Road.				
<b>ST. MARY'S COUNTY --- 0.5 SE COMPTON [38.27, -76.69]</b>				



## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/13/13 14:28 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 14:28 EST		0.50K	Source: Trained Spotter

There were two trees down in a yard along Tippit Road.

### ST. MARY'S COUNTY --- 0.5 W REDGATE [38.27, -76.61]

	06/13/13 14:32 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 14:32 EST		0.10K	Source: Trained Spotter

There were small branches about a half an inch in diameter and other debris swirling around in the strongest winds. Estimated wind gusts in excess of 70 mph near and to the south of Leonardstown High School.

### ST. MARY'S COUNTY --- 0.5 SE VALLEY LEE [38.20, -76.51]

	06/13/13 14:37 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 14:37 EST		2K	Source: Emergency Manager

There were numerous trees down.

### MONTGOMERY COUNTY --- 0.5 E SENECA [39.08, -77.32], 1.1 WNW BURTONSVILLE [39.11, -76.95]

	06/13/13 14:38 EST		1K	Tornado (EF0, L: 20.10 mi , W: 150 yd)
	06/13/13 14:59 EST		5K	Source: NWS Storm Survey

From eyewitness accounts, radar imagery and a ground survey concluded a long track EF-0 tornado occurred in Montgomery County MD on the afternoon of June 13, 2013. Peak winds were estimated at 75 mph. Damage was almost entirely from downed trees. In that regard numerous homes and a few parked vehicles were damaged by trees falling onto them.

First damage was noted near the Bretton Woods golf course along River Road. Damage continued along Bonnie Dale Drive and Glenhurst Ct where several trees were downed in the community. Also, near the intersection of Turkey Foot Road and Jones Lane in southwest Montgomery County near North Potomac MD a few large trees were over the road. The tornado raced east at nearly 60 mph to the northern section of Rockville MD. At least 14 homes were significantly damaged by uprooted trees. As it continued east to the Norbeck and Aspen Hill area 30 trees were uprooted in the Manor County Golf Club as well as numerous homes damaged in the surrounding communities from tree damage. Tree damage was noted along the intercounty connector route 200 at the Layhill Road exit. Finally a few trees were downed in Spencerville and Burtonsville.

Additionally there was a parallel 7 miles path of damage through South Rockville and Glenmont MD with similar tree damage. This area was found to be straight line winds from the outflow just south of the tornado from the parent supercell storm.

### ST. MARY'S COUNTY --- 1.0 NW CHINGVILLE [38.24, -76.56]

	06/13/13 14:40 EST		0	Hail (2.75 in)
	06/13/13 14:40 EST		0	Source: Trained Spotter

### ST. MARY'S COUNTY --- 0.3 S LNRDTWN ST MARYS ARP [38.32, -76.55]

	06/13/13 14:41 EST		0	Thunderstorm Wind (MG 53 kt)
	06/13/13 14:41 EST		0	Source: AWOS

### ST. MARY'S COUNTY --- 1.6 NNW SOTTERLEY [38.40, -76.54], 3.0 NNE SOTTERLEY [38.42, -76.51]

	06/13/13 14:42 EST		0	Tornado (EF0, L: 1.80 mi , W: 75 yd)
	06/13/13 14:45 EST		10K	Source: NWS Storm Survey

Peak winds are estimated to have been 70 mph and the tornado was on the ground for three minutes. The tornado uprooted two oak trees that were one to two feet in diameter and snapped several others at their bases. It blew the roof off of a farm outbuilding and caused additional damage to the wooden planks. Several pine trees had their limbs ripped off. Four to six inch diameter tree limbs were blown onto portions of Cage Farm Road. Grassy fields surrounding the area indicate the tornado may have lifted and descended along its path.

### ST. MARY'S COUNTY --- 0.6 SW BEACHVILLE [38.14, -76.43]

	06/13/13 14:43 EST		0	Thunderstorm Wind (MG 53 kt)
	06/13/13 14:43 EST		0	Source: AWOS

### MONTGOMERY COUNTY --- 1.9 E GLEN [39.05, -77.19]

	06/13/13 14:45 EST		0.50K	Thunderstorm Wind (EG 52 kt)
	06/13/13 14:45 EST		0.50K	Source: Trained Spotter

There were multiple 8 to 9 inch diameter tree branches knocked down and a basketball backboard broken off.

## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>MONTGOMERY COUNTY --- 2.3 WSW LUXMANOR [39.04, -77.16]</b>				
	06/13/13 14:47 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 14:47 EST		0.50K	Source: Public
There was a tree down.				
<b>MONTGOMERY COUNTY --- 0.2 WNW ROCKVILLE [39.08, -77.15]</b>				
	06/13/13 14:49 EST		0	Thunderstorm Wind (MG 55 kt)
	06/13/13 14:49 EST		0	Source: Trained Spotter
This was reported by a hand held anemometer.				
<b>MONTGOMERY COUNTY --- 0.2 WNW ROCKVILLE [39.08, -77.15]</b>				
	06/13/13 14:49 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 14:49 EST		0.50K	Source: Public
A tree fell on a house on High Wood Drive in Rockville MD.				
<b>MONTGOMERY COUNTY --- 0.2 WNW ROCKVILLE [39.08, -77.15]</b>				
	06/13/13 14:49 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 14:49 EST		2K	Source: Public
There were several trees down or split on the 700 Block of Smallwood Road.				
<b>MONTGOMERY COUNTY --- 1.0 SW AUTREY PARK [39.06, -77.13]</b>				
	06/13/13 14:49 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 14:49 EST		2K	Source: Emergency Manager
There were trees down.				
<b>MONTGOMERY COUNTY --- 1.4 WSW MONTGOMERY VLG [39.16, -77.20]</b>				
	06/13/13 14:49 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 14:49 EST		0.50K	Source: Trained Spotter
A tree snapped at Montgomery Village Golf Club.				
<b>MONTGOMERY COUNTY --- 0.4 WSW HOLLYWOOD PARK [39.07, -77.01]</b>				
	06/13/13 14:54 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 14:54 EST		1K	Source: Emergency Manager
There were trees down.				
<b>MONTGOMERY COUNTY --- 0.3 SSW COLESVILLE [39.08, -77.00]</b>				
	06/13/13 14:55 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 14:55 EST		0.50K	Source: Broadcast Media
There was a tree down near the intersection of Randolph Road and New Hampshire Avenue.				
<b>PRINCE GEORGE'S COUNTY --- 0.6 ESE AMMENDALE [39.05, -76.89]</b>				
	06/13/13 15:04 EST		0	Thunderstorm Wind (MG 51 kt)
	06/13/13 15:04 EST		0	Source: Mesonet
<b>PRINCE GEORGE'S COUNTY --- 0.9 SSW HIGH RIDGE [39.11, -76.90]</b>				
	06/13/13 15:05 EST		2K	Thunderstorm Wind (EG 52 kt)
	06/13/13 15:05 EST		0.50K	Source: Emergency Manager
There was one tree uprooted into a house at 5900 Parkway Drive.				
<b>HOWARD COUNTY --- 0.6 NNW NORTH LAUREL [39.14, -76.88]</b>				

## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/13/13 15:06 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 15:06 EST		0.50K	Source: 911 Call Center

There was a tree down at 10700 Scaggsville Road.

<b>PRINCE GEORGE'S COUNTY --- 1.0 SSE HIGH RIDGE [39.11, -76.89]</b>				
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/13/13 15:06 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 15:06 EST		0.50K	Source: 911 Call Center

There was a tree down on Park Hall Drive near Sandy Spring Road.

<b>ANNE ARUNDEL COUNTY --- 0.9 E JESSUP [39.15, -76.76]</b>				
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/13/13 15:08 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 15:08 EST		1K	Source: 911 Call Center

A tree fell onto a house in Jessup while another tree was down around Apple Ave and Orchard Av.

<b>HOWARD COUNTY --- 1.3 SW SAVAGE [39.12, -76.85]</b>				
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/13/13 15:08 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 15:08 EST		0.50K	Source: 911 Call Center

There was a tree down along All Saints Road.

<b>ANNE ARUNDEL COUNTY --- 1.2 NNW REVELL [39.09, -76.54]</b>				
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/13/13 15:45 EST		0.50K	Thunderstorm Wind (EG 52 kt)
	06/13/13 15:45 EST		0.50K	Source: Fire Department/Rescue

There were trees and wires down.

**A cold front stalled across the Mid Atlantic and low pressure formed and moved along it. Southerly flow advected gulf moisture into the region and showers and thunderstorms easily formed. Heavy rain, hail, damaging winds and tornadoes occurred throughout the day.**

## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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*An EF-0 caused significant tree damage in California, MD. Photo credit: Heather Sheffield*

**CALVERT COUNTY --- 0.6 NNW NORTH BEACH [38.71, -76.53], 0.6 NNW NORTH BEACH [38.71, -76.53], 0.5 NNW NORTH BEACH [38.71, -76.53], 0.5 NNW NORTH BEACH [38.71, -76.53]**

06/18/13 13:30 EST	0	Flash Flood (due to Heavy Rain)
06/18/13 15:30 EST	0	Source: 911 Call Center

Fifth St at Chesapeake Ave was closed due to high water.

**CALVERT COUNTY --- 11.9 W LOWER MARLBORO [38.62, -76.90], 12.1 W LOWER MARLBORO [38.62, -76.90], 12.1 W LOWER MARLBORO [38.62, -76.90], 12.0 W LOWER MARLBORO [38.62, -76.90]**

06/18/13 14:03 EST	0	Flash Flood (due to Heavy Rain)
06/18/13 16:03 EST	0	Source: Department of Highways

A portion of the southbound side of Maryland Business Route five was flooded and closed.

**ANNE ARUNDEL COUNTY --- 0.9 ENE CHURCHTON [38.80, -76.51], 0.8 ENE CHURCHTON [38.80, -76.52], 0.7 ENE CHURCHTON [38.80, -76.52], 0.9 ENE CHURCHTON [38.80, -76.51]**

06/18/13 15:23 EST	0	Flash Flood (due to Heavy Rain)
06/18/13 17:23 EST	0	Source: CoCoRaHS

Route 468 and other major roads were flooded in several places. There was 2.7 inches of rainfall in 2.25 hours.

**A weak cold front was stalled over the area. Convergence along the boundary led to heavy showers. A few breaks in the clouds led to an increase in instability and thunderstorms that produced heavy rain in activity.**

## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>ALLEGANY COUNTY --- 0.9 E SPRING GAP [39.57, -78.70]</b>				
	06/24/13 11:54 EST		0	Hail (1.25 in)
	06/24/13 11:54 EST		0	Source: Trained Spotter
<b>ALLEGANY COUNTY --- 1.1 ENE SPRING GAP [39.58, -78.70]</b>				
	06/24/13 12:40 EST		0	Thunderstorm Wind (EG 52 kt)
	06/24/13 12:40 EST		2K	Source: Trained Spotter
A few large trees about 12 to 14 inches in diameter brought down power lines near Reckley Spring Lane SE and Brice Hollow Road SE.				
<b>MONTGOMERY COUNTY --- 2.6 SSW WHITES FERRY [39.17, -77.49]</b>				
	06/24/13 14:49 EST		0	Thunderstorm Wind (EG 52 kt)
	06/24/13 14:49 EST		2K	Source: Public
There were trees and large limbs down along 23000 block of Whites Ferry Road.				
<b>FREDERICK COUNTY --- 2.2 NE PARK MILLS [39.32, -77.39]</b>				
	06/24/13 15:14 EST		0	Thunderstorm Wind (EG 52 kt)
	06/24/13 15:14 EST		0.50K	Source: Emergency Manager
There was a tree down on Park Mills Road.				
<b>CHARLES COUNTY --- MASON SPGS [38.58, -77.12]</b>				
	06/24/13 15:20 EST		0.50K	Thunderstorm Wind (EG 52 kt)
	06/24/13 15:20 EST		0.50K	Source: 911 Call Center
There was a tree down on wires off Mason Springs Road.				
<b>ST. MARY'S COUNTY --- 0.2 N DAMERON [38.15, -76.37]</b>				
	06/24/13 15:20 EST		0	Hail (1.00 in)
	06/24/13 15:20 EST		0	Source: Trained Spotter
<b>CHARLES COUNTY --- 1.5 N WHITE PLAINS [38.60, -76.95]</b>				
	06/24/13 15:54 EST		0	Thunderstorm Wind (EG 52 kt)
	06/24/13 15:54 EST		0.50K	Source: Newspaper
There was a tree down on Riva Place.				
<b>An upper level low was located over the region. Hot and humid conditions were at the surface with cold air aloft. Terrain circulations led to thunderstorm development in a conducive environment in the Potomac Highlands.</b>				
<b>WASHINGTON COUNTY --- 0.8 NE CORBETT [39.64, -77.72]</b>				
	06/25/13 20:17 EST		1K	Thunderstorm Wind (EG 52 kt)
	06/25/13 20:17 EST		0.50K	Source: 911 Call Center
There was one tree down in the city and multiple wires down.				
<b>FREDERICK COUNTY --- 0.3 ENE WOLFSVILLE [39.58, -77.55]</b>				
	06/25/13 20:27 EST		0	Thunderstorm Wind (EG 52 kt)
	06/25/13 20:27 EST		0.50K	Source: 911 Call Center
There was a tree into a house on Brandenburg Hallow Road.				
<b>CARROLL COUNTY --- 0.7 SE WESTMINSTER ARPT [39.59, -76.99]</b>				
	06/25/13 20:48 EST		1K	Thunderstorm Wind (EG 52 kt)
	06/25/13 20:48 EST		2K	Source: Public
There were a couple trees knocked onto Sullivan Road. There was damage to Sullivan Road community pool.				
<b>FREDERICK COUNTY --- 0.8 SW PETERSVILLE [39.34, -77.63]</b>				

## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/25/13 20:48 EST		0	Thunderstorm Wind (EG 52 kt)
	06/25/13 20:48 EST		1K	Source: Department of Highways
There were two large trees down blocking Jefferson Pike north of Burkittsville Road.				
<b>CARROLL COUNTY --- 0.9 SSW PATAPSCO [39.54, -76.91]</b>				
	06/25/13 20:50 EST		1K	Thunderstorm Wind (EG 52 kt)
	06/25/13 20:50 EST		2K	Source: Public
There was one large pine tree snapped and several other large limbs downed from other trees. One limb was on a vehicle. The damage was isolated to three homes in the community.				
<b>CARROLL COUNTY --- 2.8 N DEEP RUN [39.72, -76.97]</b>				
	06/25/13 20:50 EST		0	Thunderstorm Wind (EG 52 kt)
	06/25/13 20:50 EST		0.50K	Source: Public
There was a tree down on Grand Valley Road.				
<b>CARROLL COUNTY --- 0.6 SE WESTMINSTER ARPT [39.59, -76.99]</b>				
	06/25/13 20:56 EST		1K	Thunderstorm Wind (EG 52 kt)
	06/25/13 20:56 EST		0.50K	Source: Emergency Manager
There were several trees snapped and one was on a home.				
<b>CARROLL COUNTY --- 0.6 SE WESTMINSTER ARPT [39.59, -76.99]</b>				
	06/25/13 20:56 EST		5K	Thunderstorm Wind (EG 52 kt)
	06/25/13 20:56 EST		2K	Source: Public
There were a few trees down. A wooden swing set toppled over and shudders were off of a house and missing. There was fencing down and a shed moved off its foundation. A vehicle slid onto a curb.				
<b>BALTIMORE COUNTY --- 0.2 SSW WOODENSBURG [39.50, -76.83]</b>				
	06/25/13 21:04 EST		0	Thunderstorm Wind (MG 51 kt)
	06/25/13 21:04 EST		0	Source: Mesonet
<b>BALTIMORE COUNTY --- 0.8 NNW FRANKLINVILLE [39.46, -76.40]</b>				
	06/25/13 21:30 EST		0	Thunderstorm Wind (EG 52 kt)
	06/25/13 21:30 EST		0.25K	Source: Trained Spotter
There were a couple of five inch diameter tree limbs broken.				
<b>HARFORD COUNTY --- 0.2 NNW FALLSTON [39.52, -76.42]</b>				
	06/25/13 21:30 EST		0	Thunderstorm Wind (EG 52 kt)
	06/25/13 21:30 EST		0.50K	Source: Department of Highways
There was a large tree down blocking northbound lanes of MD 152 at Rochelle Road.				
<b>BALTIMORE COUNTY --- 0.7 N BALTIMORE MARTIN ST [39.34, -76.42]</b>				
	06/25/13 21:48 EST		0	Thunderstorm Wind (MG 53 kt)
	06/25/13 21:48 EST		0	Source: AWOS
<b>A subtropical ridge was over the Mid Atlantic with northwesterly flow leading to hot and humid conditions. This led to a unstable atmosphere and thunderstorms formed.</b>				
<b>CHARLES COUNTY --- 0.6 ENE NANJEMOY ARPT [38.47, -77.24]</b>				
	06/26/13 14:41 EST		0.50K	Thunderstorm Wind (EG 52 kt)
	06/26/13 14:41 EST		0.50K	Source: 911 Call Center
There was a tree down on wires along Jacksontown Road.				
<b>BALTIMORE CITY (C) COUNTY --- 0.5 N CAMDEN [39.29, -76.63]</b>				

## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/26/13 16:20 EST		0	Thunderstorm Wind (EG 52 kt)
	06/26/13 16:20 EST		0.50K	Source: County Official

There was a tree down on West Lombard Street.

**A subtropical ridge was present over the Mid Atlantic and hot and humid conditions persisted. This led to an unstable atmosphere. A shortwave trough moved into the Mid Atlantic and showers and thunderstorms formed that were capable of strong winds.**

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### CALVERT COUNTY --- 0.4 SSW DUNKIRK [38.72, -76.67]

06/28/13 15:30 EST	0	Thunderstorm Wind (EG 52 kt)
06/28/13 15:30 EST	0.50K	Source: 911 Call Center

There was a large tree blocking the intersection of Ferry Landing Road and Howes Road.

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### ST. MARY'S COUNTY --- 1.5 WSW DYNARD [38.31, -76.76]

06/28/13 15:30 EST	0.50K	Thunderstorm Wind (EG 52 kt)
06/28/13 15:30 EST	0.50K	Source: Trained Spotter

There was a electric pole snapped near the intersection of Hurry Road and Route 238. Several large limbs were also down.

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### ST. MARY'S COUNTY --- 0.6 SW LEONARDTOWN [38.29, -76.64]

06/28/13 15:45 EST	20K	Thunderstorm Wind (EG 52 kt)
06/28/13 15:45 EST	0.50K	Source: Trained Spotter

There was a 12 inch in diameter tree and transformer down on Pope Street damaging three vehicles. The pole is laying inside one of the vehicles.

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### ST. MARY'S COUNTY --- 0.4 ENE HURRY [38.33, -76.77]

06/28/13 15:47 EST	2K	Thunderstorm Wind (EG 52 kt)
06/28/13 15:47 EST	0.50K	Source: 911 Call Center

There was a tree knocked down onto a house along Hurry Road.

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### ST. MARY'S COUNTY --- 1.1 SE HURRY [38.32, -76.76]

06/28/13 15:48 EST	5K	Thunderstorm Wind (EG 52 kt)
06/28/13 15:48 EST	0.50K	Source: 911 Call Center

There was a tree down and a barn collapsed along Hurry Road.

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### ST. MARY'S COUNTY --- 1.7 NE HURRY [38.35, -76.76]

06/28/13 15:48 EST	5K	Thunderstorm Wind (EG 52 kt)
06/28/13 15:48 EST	0	Source: 911 Call Center

A barn was knocked down along Budds Creek Road.

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### ST. MARY'S COUNTY --- 1.0 NE HURRY [38.34, -76.77]

06/28/13 15:49 EST	5K	Thunderstorm Wind (EG 52 kt)
06/28/13 15:49 EST	0	Source: 911 Call Center

There was a barn knocked down on Manor Lane.

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### ST. MARY'S COUNTY --- 2.1 NNE COMPTON [38.30, -76.69]

06/28/13 15:56 EST	0	Thunderstorm Wind (EG 52 kt)
06/28/13 15:56 EST	2K	Source: 911 Call Center

There were numerous trees down in the Chaptico area. One tree was blown down across Hurry Road.

**High pressure was anchored off shore while low pressure spun over the Great Lakes. A shortwave trough moved over the region initiating showers and thunderstorms in vicinity of a surface trough.**

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### CALVERT COUNTY --- 0.2 W SOLOMONS [38.32, -76.45], 0.3 W SOLOMONS [38.32, -76.46], 0.3 WSW SOLOMONS [38.32, -76.46], 0.2 WSW SOLOMONS [38.32, -76.45]

06/30/13 16:03 EST	0	Flash Flood (due to Heavy Rain)
06/30/13 18:03 EST	0	Source: Public

## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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There was water across the road and up the sidewalks. Water is at least 12 to 18 inches deep on the side of the road.

**An upper level low was across the eastern U.S. led to a prolonged fetch of warm moist air from the Atlantic. A strong jet increased shear across the region and thunderstorms that developed were capable of wind damage and large hail.**

### VIRGINIA, North

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#### WARREN COUNTY --- 1.6 NNE GLEN ECHO [38.87, -78.22]

06/02/13 14:55 EST	0	Thunderstorm Wind (EG 52 kt)
06/02/13 14:55 EST	0.50K	Source: 911 Call Center

There was a large tree down across the roadway near the intersection of Browntown Road and Hidden View Lane.

**Low pressure across the Southern Great Lakes with a associated cold front moved eastward through the Ohio Valley. A surface trough was located along Potomac Highlands and dew points rose into the low 70s. Showers and thunderstorms moved across the region.**

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#### CULPEPER COUNTY --- 0.5 SE RAPIDAN [38.31, -78.06], 0.5 SSE RAPIDAN [38.31, -78.07], 0.6 SSE RAPIDAN [38.31, -78.07], 0.7 SSE RAPIDAN [38.31, -78.06]

06/09/13 23:00 EST	0	Flash Flood (due to Heavy Rain)
06/10/13 01:00 EST	0	Source: 911 Call Center

There was a water rescue along the Rapidan River.

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#### CULPEPER COUNTY --- 2.8 N MONUMENT MILLS [38.64, -78.00], 2.8 N MONUMENT MILLS [38.64, -78.00], 2.7 N MONUMENT MILLS [38.64, -78.00], 2.8 N MONUMENT MILLS [38.64, -78.00]

06/10/13 00:25 EST	0	Flash Flood (due to Heavy Rain)
06/10/13 02:25 EST	0	Source: Department of Highways

There were numerous roads reported closed throughout Culpeper county due to flooding.

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#### FAIRFAX COUNTY --- 0.5 ESE BELLE HAVEN [38.78, -77.06], 0.4 ESE BELLE HAVEN [38.78, -77.06], 0.5 SE BELLE HAVEN [38.77, -77.06], 0.6 SE BELLE HAVEN [38.77, -77.06]

06/10/13 14:41 EST	0	Flash Flood (due to Heavy Rain)
06/10/13 16:41 EST	0	Source: Public

Belle View Road was flooded and the gauge at the new Alexandria Pumping Station exceeded its flood stage between 320pm and 4pm.

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#### FAIRFAX COUNTY --- 1.2 WNW COLCHESTER [38.68, -77.25], 1.3 WNW COLCHESTER [38.68, -77.25], 1.2 WNW COLCHESTER [38.68, -77.25], 1.2 WNW COLCHESTER [38.68, -77.25]

06/10/13 15:11 EST	0	Flash Flood (due to Heavy Rain)
06/10/13 17:11 EST	0	Source: Department of Highways

Old Colchester Road was reported to be closed due to flooding.

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#### FAIRFAX COUNTY --- 1.7 SSE BAILEYS XRDS [38.85, -77.14], 1.7 SSE BAILEYS XRDS [38.85, -77.14], 1.8 NNE LINCOLNIA [38.84, -77.14], 1.8 SSE BAILEYS XRDS [38.85, -77.14]

06/10/13 19:31 EST	0	Flash Flood (due to Heavy Rain)
06/10/13 21:31 EST	0	Source: 911 Call Center

The intersection of Columbia Pike and Blair Road was closed due to flooding.

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#### FAIRFAX COUNTY --- 1.9 NNE CLIFTON [38.81, -77.37], 1.9 NNE CLIFTON [38.81, -77.37], 1.8 NNE CLIFTON [38.81, -77.37], 1.9 NNE CLIFTON [38.81, -77.37]

06/10/13 19:35 EST	0	Flash Flood (due to Heavy Rain)
06/10/13 21:35 EST	0	Source: 911 Call Center

There was a road closed at Newman Road and Colchester Road.

**A warm front moved through the region and the Mid Atlantic was located in the warm moist sector. Convergence led to numerous showers and thunderstorms to develop in an atmosphere with high shear. Heavy rain, damaging winds and tornadoes were observed.**



## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>FAUQUIER COUNTY --- 0.4 N CRESTHILL [38.78, -78.00]</b>				
	06/13/13 07:33 EST		0	Hail (1.00 in)
	06/13/13 07:33 EST		0	Source: Trained Spotter
<b>NELSON COUNTY --- 1.0 NW ROCKFISH [37.81, -78.78]</b>				
	06/13/13 12:42 EST		2K	Thunderstorm Wind (EG 52 kt)
	06/13/13 12:42 EST		0.50K	Source: Public
A tree fell on a home near Rockfish.				
<b>ALBEMARLE COUNTY --- 0.7 SSE COBHAM [38.06, -78.27]</b>				
	06/13/13 13:00 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 13:00 EST		0.50K	Source: 911 Call Center
There was a tree down along Louisa Road.				
<b>NELSON COUNTY --- 0.9 N SCHUYLER [37.79, -78.70]</b>				
	06/13/13 13:02 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 13:02 EST		2K	Source: Emergency Manager
There were multiple trees down on route 617 Rockfish River Road near Schuyler.				
<b>ALBEMARLE COUNTY --- 0.3 ESE SCOTTSVILLE [37.80, -78.50]</b>				
	06/13/13 13:06 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 13:06 EST		0.50K	Source: 911 Call Center
A tree was down in Scottsville.				
<b>SPOTSYLVANIA COUNTY --- 2.5 E HOLLADAY [38.12, -77.82]</b>				
	06/13/13 13:09 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 13:09 EST		2K	Source: Park/Forest Service
A few trees were down in Lake Anna State Park near the campground.				
<b>SPOTSYLVANIA COUNTY --- 0.5 NNE HOLLADAY [38.13, -77.87]</b>				
	06/13/13 13:10 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 13:10 EST		1K	Source: Trained Spotter
There was one tree six inches in diameter that was snapped off at the base. Another tree five inches in diameter had its top snapped off. Several other trees had large missing limbs.				
<b>SPOTSYLVANIA COUNTY --- 3.1 SE GRANITE SPGS [38.17, -77.81]</b>				
	06/13/13 13:13 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 13:13 EST		2K	Source: Public
A road was closed due to trees down near the intersection of Stubbs Bridge Road and Grand Brooks Road.				
<b>SPOTSYLVANIA COUNTY --- 3.9 W MARGO [38.17, -77.79]</b>				
	06/13/13 13:15 EST		1K	Thunderstorm Wind (EG 52 kt)
	06/13/13 13:15 EST		0.50K	Source: Public
There were two pine trees down that caused damage to dog kennel.				
<b>SPOTSYLVANIA COUNTY --- 2.1 S LOGAN [38.19, -77.78]</b>				
	06/13/13 13:17 EST		0.50K	Thunderstorm Wind (EG 52 kt)
	06/13/13 13:17 EST		0.50K	Source: NWS Storm Survey
There was tree damage to Post Oak Road.				
<b>SHENANDOAH COUNTY --- 0.6 ESE HARRISVILLE [38.95, -78.44]</b>				

## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/13/13 13:24 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 13:24 EST		5K	Source: Trained Spotter

There was widespread tree damage.

### SHENANDOAH COUNTY --- 0.9 SSW JEROME [38.86, -78.73]

	06/13/13 13:24 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 13:24 EST		2K	Source: Trained Spotter

There were multiple trees down in Shenandoah National Forest.

### SPOTSYLVANIA COUNTY --- 0.6 WSW ALSOP [38.20, -77.66], 1.8 SW LEAVELLS [38.23, -77.54]

	06/13/13 13:26 EST		0	Tornado (EF0, L: 6.94 mi , W: 50 yd)
	06/13/13 13:33 EST		2K	Source: NWS Storm Survey

After review of radar observations, spotter reports and a ground survey, the NWS has confirmed a EF-0 tornado in Spotsylvania County on the afternoon of Thursday, June 13, 2013.

The tornado originally touched down near Jennings Pond in Central Spotsylvania County and then traveled Northeast across the county. Intermittent tree damage occurred along the path including along Robert E Lee Drive approximately one mile west of State HWY 208 in the Fredericksburg and Spotsylvania National Military Park and in the Three Cedars subdivision near Leavells Road.

### SPOTSYLVANIA COUNTY --- 2.2 SW LOGAN [38.19, -77.79]

	06/13/13 13:30 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 13:30 EST		0.50K	Source: NWS Storm Survey

There was a tree down on Stubbs Bridge Road.

### SHENANDOAH COUNTY --- 2.0 WSW WHEATFIELD [39.07, -78.41]

	06/13/13 13:32 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 13:32 EST		5K	Source: Emergency Manager

There were 17 trees down in the 2100 Block of Van Buren Road in the town of Zepp.

### SPOTSYLVANIA COUNTY --- 1.4 S FOUR MILE FORK [38.23, -77.48]

	06/13/13 13:32 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 13:32 EST		2K	Source: Other Federal Agency

Several trees were down in Lees Hill neighborhood near I-95 and exit 126.

### SPOTSYLVANIA COUNTY --- 3.4 WSW BRAKENBERG [38.12, -77.77]

	06/13/13 13:32 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 13:32 EST		0.50K	Source: NWS Storm Survey

There were two trees down along Robinson Road.

### SPOTSYLVANIA COUNTY --- 1.9 SW LEAVELLS [38.23, -77.54]

	06/13/13 13:33 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 13:33 EST		2K	Source: Trained Spotter

There were three trees knocked down, about 20 to 30 feet tall and 9 inches in diameter, along South Cedar Ridge Lane.

### SPOTSYLVANIA COUNTY --- 1.0 WSW FOUR MILE FORK [38.24, -77.50]

	06/13/13 13:34 EST		1K	Thunderstorm Wind (EG 52 kt)
	06/13/13 13:34 EST		0	Source: Trained Spotter

A heavy sign at 10400 Block of Spotsylvania Ave blew down.

### SPOTSYLVANIA COUNTY --- 1.8 SSE HAMS FORD [38.10, -77.54], 0.5 SE THORNBURG [38.13, -77.51]

	06/13/13 13:35 EST		10K	Tornado (EF0, L: 2.45 mi , W: 75 yd)
	06/13/13 13:40 EST		5K	Source: NWS Storm Survey

## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>The tornado touched down near Mayre Road west of Jefferson Davis Highway, where several trees were snapped and uprooted. The tornado traveled to the North-Northeast roughly along US Hwy 1 and I 95. At a farm on Hwy 1, a shed was destroyed with twisted debris scattered across the property. Portions of roofs were peeled on other sheds. Minor siding and roof damage occurred to the farmhouse. Afterward, the tornado damaged two billboards near the southbound lanes of I 95 and carried a placard from one of the billboards across the highway. Just to east of I 95, the tornado overturned two recreational vehicles at a dealership and pulled a garage door off its hinges. The two recreational vehicles weighed an estimated 8000 pounds each.</p>				
<hr/>				
<b>SPOTSYLVANIA COUNTY --- 0.4 SW LEAVELLS [38.24, -77.53]</b>				
	06/13/13 13:40 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 13:40 EST		1K	Source: Trained Spotter
<p>There were several trees down near Leavells Road and Courthouse Road.</p>				
<hr/>				
<b>SPOTSYLVANIA COUNTY --- 0.7 SSE POST OAK [38.16, -77.66]</b>				
	06/13/13 13:41 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 13:41 EST		2K	Source: NWS Storm Survey
<p>There were multiple trees down and some were snapped near the merger of Route 208 and County Road 606.</p>				
<hr/>				
<b>SPOTSYLVANIA COUNTY --- 0.4 SW LEAVELLS [38.24, -77.53]</b>				
	06/13/13 13:42 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 13:42 EST		0.50K	Source: Trained Spotter
<p>There was a three to five inch in diameter pine tree branches knocked down on Court House Road west of I95.</p>				
<hr/>				
<b>WARREN COUNTY --- 1.1 W RIVERTON [38.95, -78.20]</b>				
	06/13/13 13:42 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 13:42 EST		2K	Source: Public
<p>There were trees down on West Duck Road near Route 340. There were large tree branches on a roof of a home.</p>				
<hr/>				
<b>WARREN COUNTY --- 1.1 WSW RIVERTON [38.95, -78.20]</b>				
	06/13/13 13:42 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 13:42 EST		0.50K	Source: Public
<p>There was a one foot in diameter tree snapped.</p>				
<hr/>				
<b>SPOTSYLVANIA COUNTY --- 1.0 ENE LEAVELLS [38.25, -77.50]</b>				
	06/13/13 13:43 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 13:43 EST		0.50K	Source: Trained Spotter
<p>There was a large pine tree, 4 inches in diameter down on Court House Road on the east side of I-95 between Lafayette Blvd and I-95.</p>				
<hr/>				
<b>SPOTSYLVANIA COUNTY --- 1.9 NW SPOTSYLVANIA [38.22, -77.60]</b>				
	06/13/13 13:43 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 13:43 EST		2K	Source: NWS Storm Survey
<p>There were trees down in the Spotsylvania Courthouse Battlefield.</p>				
<hr/>				
<b>WARREN COUNTY --- 1.0 W RIVERTON [38.95, -78.20]</b>				
	06/13/13 13:43 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 13:43 EST		0	Source: Public
<p>A large pine tree that was 40 feet all, snapped half way up on East Duck Road.</p>				
<hr/>				
<b>SPOTSYLVANIA COUNTY --- 0.3 N SNELL [38.15, -77.60]</b>				
	06/13/13 13:46 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 13:46 EST		0.50K	Source: NWS Storm Survey
<p>There was a Cedar tree snapped along Court House Road.</p>				
<hr/>				
<b>SPOTSYLVANIA COUNTY --- 1.5 N CONCORD HGTS [38.29, -77.48]</b>				

## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/13/13 13:48 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 13:48 EST		0.50K	Source: Trained Spotter
There was a large tree down on Plank Road about one quarter west of Lafayette Blvd.				
<hr/>				
<b>KING GEORGE COUNTY --- 0.8 S KING GEORGE [38.26, -77.17]</b>	06/13/13 14:06 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 14:06 EST		0.50K	Source: Emergency Manager
There was a tree down near the intersection of VA highway 3 and US highway 301.				
<hr/>				
<b>KING GEORGE COUNTY --- 1.1 W HOP YARD LNDG [38.25, -77.24]</b>	06/13/13 14:06 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 14:06 EST		0.50K	Source: Public
There was one tree down.				
<hr/>				
<b>LOUDOUN COUNTY --- 2.1 ENE OATLANDS [39.04, -77.58]</b>	06/13/13 14:22 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 14:22 EST		2K	Source: Trained Spotter
There was tree damage on Evergreen Mills Road.				
<hr/>				
<b>LOUDOUN COUNTY --- 0.6 S ASHBURN [39.04, -77.48]</b>	06/13/13 14:23 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 14:23 EST		0.50K	Source: NWS Employee
There was a large tree uprooted in a neighborhood of Ashburn. Wind speed of 55 mph was also recorded from a weather station.				
<hr/>				
<b>LOUDOUN COUNTY --- 1.7 N BELMONT [39.08, -77.50]</b>	06/13/13 14:23 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 14:23 EST		2K	Source: Trained Spotter
There were multiple trees down across and along Belmont Ridge Road between Gloucester Parkway and Harry Byrd Parkway.				
<hr/>				
<b>LOUDOUN COUNTY --- 0.9 NW LEESBURG MUNI [39.09, -77.56]</b>	06/13/13 14:27 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 14:27 EST		0.50K	Source: Trained Spotter
There was a tree down on Battlefield Parkway near Sycolin Road.				
<hr/>				
<b>LOUDOUN COUNTY --- 1.3 NNW LEESBURG MUNI [39.10, -77.56]</b>	06/13/13 14:27 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 14:27 EST		1K	Source: Trained Spotter
There were several trees snapped and damage to construction signs on Hope Pkwy near Sunset View Terrace.				
<hr/>				
<b>LOUDOUN COUNTY --- 1.0 SSE PURCELLVILLE [39.14, -77.71]</b>	06/13/13 14:28 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 14:28 EST		0.10K	Source: Trained Spotter
There were one to two inch in diameter branches lifting up into the clouds.				
<hr/>				
<b>LOUDOUN COUNTY --- 1.0 SSE ASHBURN [39.04, -77.47]</b>	06/13/13 14:29 EST		0	Thunderstorm Wind (MG 59 kt)
	06/13/13 14:29 EST		0	Source: Mesonet
An observation of 59 mph was reported at Farmwell Station Middle School.				
<hr/>				
<b>LOUDOUN COUNTY --- 1.6 NNW BROAD RUN FARMS [39.05, -77.38]</b>	06/13/13 14:32 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 14:32 EST		0.50K	Source: Public

## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
There was a tree down along Algonkian Parkway near Cascades Parkway.				
<b>LOUDOUN COUNTY --- 2.8 E ASHBURN [39.05, -77.43]</b>				
	06/13/13 14:32 EST		5K	Thunderstorm Wind (EG 56 kt)
	06/13/13 14:32 EST		0.50K	Source: Emergency Manager
A 65 foot tall, three foot in diameter tree, fell into a house on White Oak Drive in Sterling, VA.				
<b>LOUDOUN COUNTY --- 1.4 NE BROAD RUN FARMS [39.05, -77.35]</b>				
	06/13/13 14:35 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 14:35 EST		0.50K	Source: Public
A four foot in diameter tree split down the middle on Compton Circle.				
<b>FAIRFAX COUNTY --- 1.8 N SUNSET HILLS [38.98, -77.35]</b>				
	06/13/13 14:36 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 14:36 EST		0.50K	Source: Trained Spotter
There was a tree down on North Village Road.				
<b>FAIRFAX COUNTY --- 1.0 SE CROWELLS CORNER [38.94, -77.29]</b>				
	06/13/13 14:41 EST		2K	Thunderstorm Wind (EG 52 kt)
	06/13/13 14:41 EST		2K	Source: Emergency Manager
There were 14 trees and power poles down through Northern Fairfax County.				
<b>FAIRFAX COUNTY --- 0.7 NNW CHESTERBROOK WOODS [38.94, -77.18]</b>				
	06/13/13 14:55 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 14:55 EST		2K	Source: Public
There were several large trees and limbs down in Devon Park neighborhood of McLean.				
<b>KING GEORGE COUNTY --- PORT CONWAY [38.18, -77.18], 1.3 ENE ROLLINS FORK [38.19, -77.05]</b>				
	06/13/13 14:57 EST		0	Tornado (EF0, L: 7.14 mi , W: 50 yd)
	06/13/13 15:06 EST		12.50K	Source: NWS Storm Survey
After review of radar observations and a ground survey, The National Weather Service has confirmed a EF-0 tornado touched down in Southeastern King George County on the afternoon of Thursday, June 13, 2013.				
The tornado touched down in Port Conway, where tree damage occurred just east of US 301. The tornado then traveled east-northeast across southeastern King George County causing intermittent tree damage. The most significant damage occurred Northeast of Rollings Fork near the Westmorland County border where three 20-30 inch diameter Poplar trees were blown over and numerous small trees were topped.				
<b>A cold front stalled across the Mid Atlantic and low pressure formed and moved along it. Southerly flow advected gulf moisture into the region and showers and thunderstorms easily formed. Heavy rain, hail, damaging winds and tornadoes occurred throughout the day.</b>				

## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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*An EF-0 overturned two recreational vehicles each weighing 8000 pounds.*

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**SPOTSYLVANIA COUNTY --- 0.3 SW LEAVELLS [38.25, -77.52], 0.4 SW LEAVELLS [38.25, -77.53], 0.5 SW LEAVELLS [38.24, -77.53], 0.4 SSW LEAVELLS [38.24, -77.52]**

06/13/13 13:47 EST	0	Flash Flood (due to Heavy Rain)
06/13/13 15:47 EST	0	Source: Trained Spotter

There was high water near the intersection of Leavells Road and Courthouse Road.

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**SPOTSYLVANIA COUNTY --- 1.0 WNW FOUR MILE FORK [38.26, -77.50], 1.1 WNW FOUR MILE FORK [38.26, -77.50], 1.1 WNW FOUR MILE FORK [38.25, -77.50], 0.9 WNW FOUR MILE FORK [38.25, -77.50]**

06/13/13 13:50 EST	0	Flash Flood (due to Heavy Rain)
06/13/13 15:50 EST	0	Source: Trained Spotter

There was high water near intersection of Courthouse Road and Jefferson Davis Highway.

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**LOUDOUN COUNTY --- 2.7 WSW PURCELLVILLE [39.14, -77.77], 2.7 ENE ROUND HILL [39.14, -77.77], 2.7 ENE ROUND HILL [39.14, -77.77], 2.7 WSW PURCELLVILLE [39.14, -77.77]**

06/13/13 14:23 EST	0	Flash Flood (due to Heavy Rain)
06/13/13 16:23 EST	0	Source: Public

There was water, one foot deep flowing down Main Street.

## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>LOUDOUN COUNTY --- 1.8 N BELMONT [39.08, -77.50], 1.8 N BELMONT [39.08, -77.51], 1.7 NNW BELMONT [39.07, -77.51], 1.7 N BELMONT [39.07, -77.50]</b>	06/13/13 15:52 EST		0	Flash Flood (due to Heavy Rain)
	06/13/13 17:52 EST		0	Source: Trained Spotter

Belmont Ridge was closed between Gloucester Parkway and Harry Byrd Parkway.

<b>LOUDOUN COUNTY --- 1.9 ENE ROUND HILL [39.14, -77.78], 1.6 ENE ROUND HILL [39.14, -77.79], 1.6 E ROUND HILL [39.13, -77.79], 1.9 E ROUND HILL [39.13, -77.79]</b>	06/13/13 15:55 EST		0	Flash Flood (due to Heavy Rain)
	06/13/13 17:55 EST		0	Source: Department of Highways

Scotland Heights Road was flooded and closed.

**A cold front stalled across the Mid Atlantic and low pressure formed and moved along it. Southerly flow advected gulf moisture into the region and showers and thunderstorms easily formed. Heavy rain, hail, damaging winds and tornadoes occurred throughout the day.**

<b>ALBEMARLE COUNTY --- 3.5 N FARMINGTON [38.10, -78.55]</b>	06/17/13 15:45 EST		0	Thunderstorm Wind (EG 52 kt)
	06/17/13 15:45 EST		2K	Source: 911 Call Center

There were several large oak trees downed just off 1900 block of Garth Road.

<b>LOUDOUN COUNTY --- 2.7 SW PLEASANT VLY [38.89, -77.51]</b>	06/17/13 18:49 EST		0	Hail (1.25 in)
	06/17/13 18:49 EST		0	Source: Public

**A weak cold front moved through the region and stalled over the area. Convergence along the boundary led to heavy showers. A few breaks in the clouds led to an increase in instability and thunderstorms that produced heavy rain in activity.**

<b>ALBEMARLE COUNTY --- 2.0 E FARMINGTON [38.04, -78.51], 1.9 E FARMINGTON [38.05, -78.52], 2.0 ESE FARMINGTON [38.04, -78.52], 2.0 ESE FARMINGTON [38.04, -78.51]</b>	06/17/13 16:00 EST		0	Flash Flood (due to Heavy Rain)
	06/17/13 18:00 EST		0	Source: 911 Call Center

Ivy Road at Old Ivy Road was closed due to flooding.

<b>CHARLOTTESVILLE (C) COUNTY --- 0.8 NNW CHARLOTTESVILLE [38.04, -78.51], 0.9 NNW CHARLOTTESVILLE [38.04, -78.51], 0.8 NW CHARLOTTESVILLE [38.04, -78.51], 0.7 NNW CHARLOTTESVILLE [38.04, -78.51]</b>	06/17/13 16:09 EST		0	Flash Flood (due to Heavy Rain)
	06/17/13 18:09 EST		0	Source: 911 Call Center

University Ave at Business US-29 was closed due to flooding.

<b>AUGUSTA COUNTY --- 1.6 WSW NEW HOPE [38.19, -78.93], 1.7 NNE BARREN RIDGE [38.19, -78.93], 1.6 NE BARREN RIDGE [38.19, -78.93], 1.7 WSW NEW HOPE [38.19, -78.93]</b>	06/17/13 20:25 EST		0	Flash Flood (due to Heavy Rain)
	06/17/13 22:25 EST		0	Source: Public

There was a foot of water flowing over at Route 612 and Tilt Hammer Road was washed out.

<b>AUGUSTA COUNTY --- 1.2 ENE DOOMS [38.12, -78.85], 0.5 NNE DOOMS [38.13, -78.86], 0.4 E DOOMS [38.12, -78.86], 1.2 E DOOMS [38.12, -78.85]</b>	06/17/13 20:35 EST		0	Flash Flood (due to Heavy Rain)
	06/17/13 22:35 EST		0	Source: 911 Call Center

There was about five feet of water flowing across route 340 in Dooms. Several water rescues have been performed.

<b>AUGUSTA COUNTY --- 9.9 ESE CRIMORA [38.07, -78.70], 9.8 SE CRIMORA [38.07, -78.70], 9.8 SE CRIMORA [38.07, -78.70], 10.0 SE CRIMORA [38.07, -78.70]</b>	06/17/13 21:45 EST		0	Flash Flood (due to Heavy Rain)
	06/17/13 23:45 EST		0	Source: 911 Call Center

The 1200 block of Crozet Ave was closed due to high water expecting a prolonged event. VDOT was closing the road.

## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>ALBEMARLE COUNTY --- 1.2 NE NORTH GARDEN [37.94, -78.63], 1.0 NE NORTH GARDEN [37.94, -78.64], 0.9 NE NORTH GARDEN [37.94, -78.64], 1.1 NE NORTH GARDEN [37.94, -78.63]</b>				
	06/18/13 16:13 EST		0	Flash Flood (due to Heavy Rain)
	06/18/13 22:13 EST		0	Source: 911 Call Center
Plank Road was closed due to high water in North Garden.				
<b>AUGUSTA COUNTY --- 0.9 NNW CRIMORA [38.16, -78.86], 1.0 NW CRIMORA [38.16, -78.86], 0.9 NW CRIMORA [38.16, -78.86], 0.7 NW CRIMORA [38.16, -78.86]</b>				
	06/18/13 20:25 EST		0	Flash Flood (due to Heavy Rain)
	06/18/13 22:25 EST		0	Source: 911 Call Center
There was nearly a foot of water flowing over Route 612.				
<b>A weak cold front moved through the region and stalled over the area. Convergence along the boundary led to heavy showers. A few breaks in the clouds led to an increase in instability and thunderstorms that produced heavy rain in activity.</b>				
<b>ROCKINGHAM COUNTY --- 1.6 SSE BERGTON [38.75, -78.92]</b>				
	06/24/13 12:17 EST		0	Thunderstorm Wind (EG 52 kt)
	06/24/13 12:17 EST		0.50K	Source: 911 Call Center
There were three trees down south of intersection of Bergton Road and Brocks Gap Road.				
<b>AUGUSTA COUNTY --- 1.7 SSW MOSSY CREEK [38.35, -79.04]</b>				
	06/24/13 12:36 EST		0	Thunderstorm Wind (EG 52 kt)
	06/24/13 12:36 EST		0.50K	Source: 911 Call Center
There was a tree down at the intersection of Kyles Mill Road and Scenic Highway Road.				
<b>LOUDOUN COUNTY --- 1.8 NNE WOODBURN [39.10, -77.61]</b>				
	06/24/13 14:30 EST		0	Thunderstorm Wind (EG 52 kt)
	06/24/13 14:30 EST		2K	Source: County Official
There were multiple trees down on Woodburn Road between Stagecoach Lane and Sydnor Hill Court.				
<b>LOUDOUN COUNTY --- 1.1 S CLARKES GAP [39.11, -77.60]</b>				
	06/24/13 14:32 EST		0	Thunderstorm Wind (EG 52 kt)
	06/24/13 14:32 EST		2K	Source: NWS Employee
There were 10-15 large trees 18-24 inches in diameter uprooted and large limbs down blocking W and OD trail at mile marker 37.				
<b>LOUDOUN COUNTY --- 1.5 WSW LEESBURG [39.11, -77.58]</b>				
	06/24/13 14:34 EST		0	Thunderstorm Wind (MG 50 kt)
	06/24/13 14:34 EST		0	Source: Mesonet
<b>LOUDOUN COUNTY --- 0.5 E LEESBURG [39.12, -77.54]</b>				
	06/24/13 14:36 EST		0	Thunderstorm Wind (EG 52 kt)
	06/24/13 14:36 EST		0.50K	Source: Emergency Manager
There was a tree down on Leesburg bypass blocking the lane.				
<b>LOUDOUN COUNTY --- 0.9 ENE LEESBURG [39.12, -77.53]</b>				
	06/24/13 14:59 EST		0	Thunderstorm Wind (MG 51 kt)
	06/24/13 14:59 EST		0	Source: Mesonet
<b>LOUDOUN COUNTY --- 1.1 SSW LEESBURG [39.10, -77.56]</b>				
	06/24/13 15:00 EST		0	Thunderstorm Wind (EG 52 kt)
	06/24/13 15:00 EST		0.50K	Source: Fire Department/Rescue
There were numerous tree limbs down from SW to NE Leesburg most a half inch to an inch in diameter. A few good sized limbs 3 to 5 inches in diameter. Some power lines were down and no structural damage.				



## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>PRINCE WILLIAM COUNTY --- 0.9 NNW (NYG)MCAS QUANTICO [38.51, -77.30]</b>				
	06/24/13 15:18 EST		0	Thunderstorm Wind (MG 50 kt)
	06/24/13 15:18 EST		0	Source: AWOS
<b>LOUDOUN COUNTY --- 0.8 SE PURCELLVILLE [39.14, -77.71]</b>				
	06/24/13 16:00 EST		0	Thunderstorm Wind (EG 52 kt)
	06/24/13 16:00 EST		2K	Source: NWS Employee
There were small trees snapped near the corner of Sycolin and Battlefield. A construction sign was snapped near the ground. There were also four tree limbs down on highway 7 just S-SW of the high school.				
<b>An upper level low was located over the region. Hot and humid conditions were at the surface with cold air aloft. Terrain circulations led to thunderstorm development in a conducive environment across the Mid Atlantic.</b>				
<b>CULPEPER COUNTY --- 0.7 S REVA [38.49, -78.13]</b>				
	06/26/13 12:52 EST		5K	Thunderstorm Wind (EG 52 kt)
	06/26/13 12:52 EST		2K	Source: 911 Call Center
There were several trees down. A carport, barn and fence were also damaged.				
<b>CULPEPER COUNTY --- 0.5 SSW REVA [38.49, -78.13]</b>				
	06/26/13 12:56 EST		0	Thunderstorm Wind (EG 52 kt)
	06/26/13 12:56 EST		2K	Source: 911 Call Center
There were trees uprooted.				
<b>CULPEPER COUNTY --- 2.6 S CULPEPER [38.44, -78.00]</b>				
	06/26/13 13:15 EST		0	Thunderstorm Wind (EG 52 kt)
	06/26/13 13:15 EST		0.50K	Source: NWS Employee
There was a two foot in diameter tree uprooted on Mountain Run Lake Road.				
<b>MADISON COUNTY --- 1.2 SSE LEON [38.44, -78.14]</b>				
	06/26/13 13:15 EST		0	Thunderstorm Wind (EG 52 kt)
	06/26/13 13:15 EST		2K	Source: 911 Call Center
There were a few trees down near the intersection of Leon Road and Mountain Prospect Lane.				
<b>ORANGE COUNTY --- 3.6 W BURR HILL [38.36, -77.94]</b>				
	06/26/13 13:24 EST		0	Thunderstorm Wind (EG 52 kt)
	06/26/13 13:24 EST		0.50K	Source: 911 Call Center
There was a tree over the road.				
<b>ORANGE COUNTY --- 3.2 NNW NASONS [38.31, -78.06]</b>				
	06/26/13 13:29 EST		0	Thunderstorm Wind (EG 52 kt)
	06/26/13 13:29 EST		0.50K	Source: 911 Call Center
There was a tree over the road.				
<b>ORANGE COUNTY --- 3.5 NNW NASONS [38.31, -78.07]</b>				
	06/26/13 13:33 EST		0	Thunderstorm Wind (EG 52 kt)
	06/26/13 13:33 EST		2K	Source: 911 Call Center
There were multiple trees down.				
<b>ORANGE COUNTY --- 2.3 NNW ORANGE [38.28, -78.14]</b>				
	06/26/13 13:36 EST		0	Thunderstorm Wind (EG 52 kt)
	06/26/13 13:36 EST		0	Source: 911 Call Center
There was a tree over the road.				

## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>STAFFORD COUNTY --- 0.6 S FERRY FARMS [38.31, -77.43]</b>				
	06/26/13 14:10 EST		0	Thunderstorm Wind (MG 54 kt)
	06/26/13 14:10 EST		0	Source: Trained Spotter
<b>STAFFORD COUNTY --- 1.1 WNW FALMOUTH [38.33, -77.49]</b>				
	06/26/13 14:15 EST		0.50K	Thunderstorm Wind (EG 52 kt)
	06/26/13 14:15 EST		0.50K	Source: Emergency Manager
There were trees and power lines down route one and Layhill Road.				
<b>SHENANDOAH COUNTY --- 3.2 WSW EDITH [38.72, -78.57]</b>				
	06/26/13 14:20 EST		0	Thunderstorm Wind (EG 52 kt)
	06/26/13 14:20 EST		0.50K	Source: 911 Call Center
There was a tree down on Morland Gap.				
<b>KING GEORGE COUNTY --- 1.6 ENE SEALSTON [38.28, -77.30]</b>				
	06/26/13 14:25 EST		0	Thunderstorm Wind (EG 52 kt)
	06/26/13 14:25 EST		0.50K	Source: 911 Call Center
There was a tree down along Bloomsbury Road.				
<b>KING GEORGE COUNTY --- 1.4 SE FAIRVIEW BEACH [38.31, -77.24]</b>				
	06/26/13 14:32 EST		0	Thunderstorm Wind (EG 52 kt)
	06/26/13 14:32 EST		0.50K	Source: 911 Call Center
There was a tree down along Caledon Road.				
<b>KING GEORGE COUNTY --- 1.2 SW BERTHAVILLE [38.32, -77.14]</b>				
	06/26/13 14:45 EST		0	Thunderstorm Wind (EG 52 kt)
	06/26/13 14:45 EST		0.50K	Source: 911 Call Center
There was a tree down at the intersection of Blackburn Run and Dahlgren Road.				
<b>KING GEORGE COUNTY --- 1.4 ENE ALLNUT [38.31, -77.08]</b>				
	06/26/13 14:55 EST		0	Thunderstorm Wind (EG 52 kt)
	06/26/13 14:55 EST		0.50K	Source: 911 Call Center
There was a tree down on Widsor Drive just west of Dehlgren.				
<b>ALBEMARLE COUNTY --- 1.1 W RED HILL [37.97, -78.64]</b>				
	06/26/13 15:00 EST		0	Thunderstorm Wind (EG 52 kt)
	06/26/13 15:00 EST		2K	Source: 911 Call Center
There were trees down along Monacan Trail Road.				
<b>ALBEMARLE COUNTY --- 2.6 S FARMINGTON [38.01, -78.54]</b>				
	06/26/13 15:11 EST		0	Thunderstorm Wind (EG 52 kt)
	06/26/13 15:11 EST		1K	Source: 911 Call Center
There were two trees down in 100 block of Overlook Drive.				
<b>A subtropical ridge was present over the Mid Atlantic and hot and humid conditions persisted. This led to an unstable atmosphere. A shortwave trough moved into the Mid Atlantic and showers and thunderstorms formed that were capable of strong winds.</b>				
<b>FAUQUIER COUNTY --- 1.1 E BETHEL [38.77, -77.80]</b>				
	06/28/13 13:36 EST		0	Thunderstorm Wind (EG 52 kt)
	06/28/13 13:36 EST		0.50K	Source: 911 Call Center
There were two trees reported down on route 605.				

## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>CULPEPER COUNTY --- 1.3 WNW LIGNUM [38.43, -77.85]</b>				
	06/28/13 13:40 EST		0	Thunderstorm Wind (EG 52 kt)
	06/28/13 13:40 EST		0.50K	Source: 911 Call Center
There was a tree down partially blocking the route 3 and 669 intersection.				
<b>FAIRFAX COUNTY --- 1.2 SSE TREMONT [38.83, -77.21]</b>				
	06/28/13 14:15 EST		0	Thunderstorm Wind (EG 52 kt)
	06/28/13 14:15 EST		0.25K	Source: Broadcast Media
There were large branches down on Braddock road at Ravensworth.				
<b>STAFFORD COUNTY --- 2.2 NW BROOKE [38.40, -77.45]</b>				
	06/28/13 14:35 EST		0	Thunderstorm Wind (MG 53 kt)
	06/28/13 14:35 EST		0	Source: AWOS
<b>ARLINGTON COUNTY --- 1.9 SSE ARLINGTON [38.85, -77.12]</b>				
	06/28/13 14:36 EST		20K	Thunderstorm Wind (EG 52 kt)
	06/28/13 14:36 EST		0	Source: 911 Call Center
There was a large tree that fell on an apartment building causing significant damage to the third floor.				
<b>ARLINGTON COUNTY --- 3.2 SSW ROSSLYN [38.83, -77.09]</b>				
	06/28/13 14:38 EST		0	Thunderstorm Wind (EG 52 kt)
	06/28/13 14:38 EST		2K	Source: Broadcast Media
There were numerous trees down.				
<b>FAIRFAX COUNTY --- 1.5 SSW DONOVANS CORNER [38.75, -77.33]</b>				
	06/28/13 14:41 EST		0	Thunderstorm Wind (EG 52 kt)
	06/28/13 14:41 EST		2K	Source: 911 Call Center
There were numerous trees down.				
<b>ARLINGTON COUNTY --- 3.9 SSW SOUTH WASHINGTON [38.82, -77.09]</b>				
	06/28/13 14:45 EST		2K	Thunderstorm Wind (EG 52 kt)
	06/28/13 14:45 EST		2K	Source: 911 Call Center
There were numerous trees down in the city and some were on power lines.				
<b>FAIRFAX COUNTY --- 1.3 NNE ENGLSIDE [38.75, -77.14]</b>				
	06/28/13 14:49 EST		0	Thunderstorm Wind (EG 52 kt)
	06/28/13 14:49 EST		2K	Source: CoCoRaHS
There were a few trees and large branches down.				
<b>FAIRFAX COUNTY --- 0.9 W MT VERNON [38.72, -77.10]</b>				
	06/28/13 14:55 EST		0	Hail (1.25 in)
	06/28/13 14:55 EST		0	Source: Public
<b>KING GEORGE COUNTY --- 1.1 ENE AMBAR [38.32, -77.16]</b>				
	06/28/13 15:05 EST		1K	Thunderstorm Wind (EG 52 kt)
	06/28/13 15:05 EST		0.50K	Source: Trained Spotter
There were two trees topped and another tree uprooted and fell across power lines.				
<b>KING GEORGE COUNTY --- 0.4 WNW HOOES [38.35, -77.08]</b>				
	06/28/13 15:07 EST		0	Thunderstorm Wind (EG 52 kt)
	06/28/13 15:07 EST		0.50K	Source: Emergency Manager

## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
There was a tree down on Owens Drive and Dixon Lane.				
<b>KING GEORGE COUNTY --- 0.5 E BERTHAVILLE [38.33, -77.11]</b>				
	06/28/13 15:07 EST		0.50K	Thunderstorm Wind (EG 52 kt)
	06/28/13 15:07 EST		0.50K	Source: 911 Call Center
There was a tree onto power lines near intersection of Union Drive and VA Route 655.				
<b>High pressure was anchored off shore while low pressure spun over the Great Lakes. A shortwave trough moved over the region initiating showers and thunderstorms in vicinity of a surface trough.</b>				
<b>FAIRFAX COUNTY --- 1.2 N BELLE HAVEN [38.80, -77.07], 1.3 N BELLE HAVEN [38.80, -77.07], 1.1 N BELLE HAVEN [38.80, -77.07], 1.1 N BELLE HAVEN [38.80, -77.07]</b>				
	06/28/13 18:25 EST		0	Flash Flood (due to Heavy Rain)
	06/28/13 20:25 EST		0	Source: Broadcast Media
There was a street flooded in Huntington from Cameron Run.				
<b>High pressure was anchored off shore while low pressure spun over the Great Lakes. A shortwave trough moved over the region initiating showers and thunderstorms in vicinity of a surface trough.</b>				
<b>WEST VIRGINIA, East</b>				
<b>JEFFERSON COUNTY --- 1.1 SSW CHARLES TOWN [39.29, -77.86]</b>				
	06/10/13 16:38 EST		0	Thunderstorm Wind (EG 52 kt)
	06/10/13 16:38 EST		0.25K	Source: Trained Spotter
There was a four inch in diameter tree limb down near the intersection of South George Street and Hunter Street.				
<b>A warm front moved through the region and the Mid Atlantic was located in the warm moist sector. Convergence led to numerous showers and thunderstorms to develop in an atmosphere with high shear. Heavy rain, damaging winds and tornadoes were observed.</b>				
<b>PENDLETON COUNTY --- 0.2 SW ONEGO [38.85, -79.42]</b>				
	06/13/13 12:20 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 12:20 EST		0.50K	Source: 911 Call Center
There was a tree down over the road.				
<b>PENDLETON COUNTY --- 0.5 NW MOUTH OF SENECA [38.83, -79.38]</b>				
	06/13/13 12:25 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 12:25 EST		0.50K	Source: 911 Call Center
There was a tree down and over the road.				
<b>HARDY COUNTY --- 0.9 WNW MOOREFIELD MUNI ARPT [39.08, -78.96]</b>				
	06/13/13 12:46 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 12:46 EST		0.50K	Source: 911 Call Center
There was a tree down near routes 55 and 28.				
<b>HARDY COUNTY --- 1.0 WNW MOOREFIELD MUNI ARPT [39.08, -78.97]</b>				
	06/13/13 12:48 EST		0	Thunderstorm Wind (EG 52 kt)
	06/13/13 12:48 EST		2K	Source: 911 Call Center
There were several trees down around Moorefield.				
<b>A cold front stalled across the Mid Atlantic and low pressure formed and moved along it. Southerly flow advected gulf moisture into the region and showers and thunderstorms easily formed. Heavy rain, hail, damaging winds and tornadoes occurred throughout the day.</b>				
<b>PENDLETON COUNTY --- 2.6 NW DAHMER [38.60, -79.37]</b>				
	06/23/13 20:09 EST		0	Thunderstorm Wind (EG 52 kt)
	06/23/13 20:09 EST		0.10K	Source: 911 Call Center

## Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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There was a small tree across one lane of Petersburg Pike about 3 to 4 miles south of Franklin.

**An upper level disturbance was approaching the area from the west. Dewpts were in the mid to upper 60s and flow aloft was weak. Showers and thunderstorms developed in a unstable environment.**

**HAMPSHIRE COUNTY --- 0.7 ESE AUGUSTA [39.30, -78.64]**

06/24/13 13:45 EST			0	Hail (1.00 in)
06/24/13 13:45 EST			0	Source: Trained Spotter

**JEFFERSON COUNTY --- 0.8 WSW MEYERSTOWN [39.19, -77.88]**

06/24/13 14:45 EST			5K	Thunderstorm Wind (EG 52 kt)
06/24/13 14:45 EST			0.50K	Source: Public

There were trees and a barn down on Ward Clipp Road. There was also hail as large as quarters.

**An upper level low was located over the region. Hot and humid conditions were at the surface with cold air aloft. Terrain circulations led to thunderstorm development in a conducive environment across the Panhandle of WV.**

**BERKELEY COUNTY --- 1.7 WNW MARLOWE [39.59, -77.90]**

06/25/13 20:15 EST			0	Thunderstorm Wind (EG 52 kt)
06/25/13 20:15 EST			0.50K	Source: Trained Spotter

There was a tree down and blocking a road.

**BERKELEY COUNTY --- 0.7 WSW FALLING WATERS [39.55, -77.91]**

06/25/13 20:20 EST			1K	Thunderstorm Wind (EG 52 kt)
06/25/13 20:20 EST			0	Source: Broadcast Media

There were construction signs blown down on interstate 81 near mile marker 20.

**JEFFERSON COUNTY --- 0.7 W BAR DANE [39.37, -77.88]**

06/25/13 20:30 EST			0.50K	Thunderstorm Wind (EG 52 kt)
06/25/13 20:30 EST			0.50K	Source: Emergency Manager

There was a tree knocked down onto power lines.

**JEFFERSON COUNTY --- 2.1 NNW SHEPHERDSTOWN [39.46, -77.82]**

06/25/13 20:39 EST			0	Thunderstorm Wind (EG 52 kt)
06/25/13 20:39 EST			0.50K	Source: 911 Call Center

There was a tree down on Scrabble Road.

**JEFFERSON COUNTY --- 0.7 S HARPERS FERRY [39.32, -77.73]**

06/25/13 20:41 EST			0	Thunderstorm Wind (EG 52 kt)
06/25/13 20:41 EST			0.50K	Source: Emergency Manager

There was a tree down at the intersection of US 340 AND Chestnut Hill Road.

**BERKELEY COUNTY --- 11.8 SE VANCLEVESVILLE [39.32, -77.73]**

06/25/13 20:43 EST			1K	Thunderstorm Wind (EG 52 kt)
06/25/13 20:43 EST			0.50K	Source: Emergency Manager

There was a large tree down into a house on Wall Street.

**JEFFERSON COUNTY --- 1.4 NNW SUMMIT PT [39.27, -77.79]**

06/25/13 20:45 EST			0	Thunderstorm Wind (EG 52 kt)
06/25/13 20:45 EST			0.50K	Source: 911 Call Center

There were several trees down on route 340 near the WV-VA line. The damaged occurred with the gust front well out ahead of the storms.

**A subtropical ridge was over the Mid Atlantic with northwesterly flow leading to hot and humid conditions. This led to a unstable atmosphere and thunderstorms formed.**

## Storm Data and Unusual Weather Phenomena - June 2013

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