

## Storm Data and Unusual Weather Phenomena - July 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>ATLANTIC NORTH</b>				
<b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.1 ENE BISHOPS HEAD [38.22, -76.04]</b>				
	07/01/13 13:36 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	07/01/13 13:36 EST	0		Source: Mesonet
Wind gusts of 34 knots were measured at Bishops Head.				
<b>The Mid Atlantic was between an upper level trough and ridge. Multiple upper level disturbances were moving through producing showers and thunderstorms. Low level shear and high dew points led to a tornado forming in Prince George's County.</b>				
<b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 0.3 NE POTOMAC BUOY [38.03, -76.34]</b>				
	07/02/13 15:10 EST	0		Marine Thunderstorm Wind (EG 45 kt)
	07/02/13 15:30 EST	0		Source: Buoy
Wind gusts of 45 knots were measured at Potomac Lookout Buoy.				
<b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.3 SE CRISFIELD [37.97, -75.88]</b>				
	07/02/13 16:03 EST	0		Marine Thunderstorm Wind (EG 38 kt)
	07/02/13 16:08 EST	0		Source: Mesonet
Wind gusts of 38 knots were measured at Crisfield.				
<b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 1.5 ENE CRISFIELD [37.98, -75.86]</b>				
	07/02/13 16:08 EST	0		Marine Thunderstorm Wind (EG 38 kt)
	07/02/13 16:08 EST	0		Source: Mesonet
Wind gusts of 38 knots were measured at Crisfield.				
<b>A Bermuda high was anchored off the Atlantic Coast while an upper level low was overhead. This led to moist and warm conditions and showers and thunderstorms moved across the waters.</b>				
<b>CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 0.2 NNW MILLER ISLAND [39.25, -76.37]</b>				
	07/07/13 17:40 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	07/07/13 17:40 EST	0		Source: Mesonet
Wind gusts of 31 knots were estimated at Hartmillier Island.				
<b>CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 0.2 NNW PATAPSCO BUOY [39.15, -76.39]</b>				
	07/07/13 17:50 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	07/07/13 17:50 EST	0		Source: Buoy
Wind gusts of 31 knots were estimated at Patapsco Buoy.				
<b>CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 4.3 SW SANDY POINT [38.97, -76.46]</b>				
	07/07/13 17:58 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	07/07/13 17:58 EST	0		Source: Mesonet
Wind gusts of 32 knots were estimated at Tolchester Beach.				
<b>An upper level disturbance moved over the Mid Atlantic. Hot and humid conditions persisted across the Mid Atlantic. Marginal instability helped produce strong winds.</b>				
<b>CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- 5.3 SE SUSQUEHANNA [39.50, -75.99]</b>				
	07/08/13 14:38 EST	0		Marine Thunderstorm Wind (EG 35 kt)
	07/08/13 14:38 EST	0		Source: Mesonet
Wind gusts of 35 knots were measured at North Bay NE.				
<b>CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- 7.2 SSE PHILLIPS ARMY AIRFIELD [39.38, -76.11]</b>				
	07/08/13 14:38 EST	0		Marine Thunderstorm Wind (EG 35 kt)
	07/08/13 14:38 EST	0		Source: Buoy

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Wind gusts of 35 knots were measured at North Bay.

An upper level disturbance moved over the Mid Atlantic. Hot and humid conditions persisted across the Mid Atlantic. Marginal instability helped produce strong winds.

**TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.3 SE CRISFIELD [37.97, -75.88]**

07/09/13 18:38 EST	0	Marine Thunderstorm Wind (EG 36 kt)
07/09/13 18:48 EST	0	Source: Mesonet

Wind gusts of 36 knots were measured at Crisfield.

Westerly flow aloft led to another upper level disturbance to move across the Mid Atlantic. Hot and humid conditions persisted and marginal instability helped produce strong winds over the waters.

**CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- 0.4 E CHESAPEAKE BEACH [38.69, -76.53]**

07/10/13 18:29 EST	0	Marine Thunderstorm Wind (EG 40 kt)
07/10/13 18:29 EST	0	Source: Mesonet

Wind gusts of 40 knots were measured at Chesapeake Beach.

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

07/10/13 18:30 EST	0	Marine Thunderstorm Wind (EG 39 kt)
07/10/13 18:30 EST	0	Source: Buoy

Wind gusts of 39 knots were measured at Annapolis Buoy.

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

07/10/13 18:40 EST	0	Marine Thunderstorm Wind (EG 41 kt)
07/10/13 18:40 EST	0	Source: Buoy

Wind gusts of 41 knots were measured at Gooses Reef Buoy.

**TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 1.1 SE LYLES-CROUCH ACADEMY ALEXANDRIA [38.79, -77.04]**

07/10/13 18:40 EST	0	Marine Thunderstorm Wind (EG 34 kt)
07/10/13 18:40 EST	0	Source: Buoy

Wind gusts of 33 knots were measured at Upper Potomac Buoy.

**TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 0.5 E (DCA)REAGAN NATIONAL AIRPORT [38.85, -77.03]**

07/10/13 18:43 EST	0	Marine Thunderstorm Wind (EG 34 kt)
07/10/13 18:43 EST	0	Source: ASOS

Wind gusts of 33 knots were measured at Reagan National.

**TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 1.1 SE LYLES-CROUCH ACADEMY ALEXANDRIA [38.79, -77.04]**

07/10/13 18:50 EST	0	Marine Thunderstorm Wind (EG 34 kt)
07/10/13 18:50 EST	0	Source: Buoy

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

**CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.2 SE THOMAS POINT LIGHT [38.90, -76.44]**

07/10/13 19:00 EST	0	Marine Thunderstorm Wind (EG 45 kt)
07/10/13 19:00 EST	0	Source: Buoy

Wind gusts of 45 knots were measured at Thomas Point Lighthouse.

**TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 0.5 E (DCA)REAGAN NATIONAL AIRPORT [38.85, -77.03]**

07/10/13 19:00 EST	0	Marine Thunderstorm Wind (EG 34 kt)
07/10/13 19:01 EST	0	Source: ASOS

Wind gusts of 34 knots were measured at Reagan National.

## Storm Data and Unusual Weather Phenomena - July 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.7 S GREENBERRY POINT [38.96, -76.46]</b>				
	07/10/13 19:02 EST	0		Marine Thunderstorm Wind (EG 39 kt)
	07/10/13 19:37 EST	0		Source: Mesonet
Wind gusts of 39 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>				
	07/10/13 19:23 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	07/10/13 19:23 EST	0		Source: Mesonet
Wind gusts of 31 knots were estimated at Kent Island.				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.2 SE GREENBERRY POINT [38.97, -76.46]</b>				
	07/10/13 19:28 EST	0		Marine Thunderstorm Wind (EG 48 kt)
	07/10/13 19:33 EST	0		Source: Mesonet
Wind gusts of 48 knots were measured at Greenbury Point.				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.9 SE GREENBERRY POINT [38.96, -76.45]</b>				
	07/10/13 19:30 EST	0		Marine Thunderstorm Wind (EG 41 kt)
	07/10/13 19:40 EST	0		Source: Buoy
Wind gusts of 41 knots were measured at Annapolis Buoy.				
<b>CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 0.2 NNW PATAPSCO BUOY [39.15, -76.39]</b>				
	07/10/13 19:50 EST	0		Marine Thunderstorm Wind (EG 37 kt)
	07/10/13 20:00 EST	0		Source: Buoy
Wind gusts of 37 knots were measured at Patapsco Buoy.				
<b>CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 0.2 NNW MILLER ISLAND [39.25, -76.37]</b>				
	07/10/13 19:56 EST	0		Marine Thunderstorm Wind (EG 37 kt)
	07/10/13 20:22 EST	0		Source: Mesonet
Wind gusts of 37 knots were measured at Hartmillier Island.				
<b>CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 6.7 ENE BALTIMORE APPROACHES BUOY [39.21, -76.25]</b>				
	07/10/13 20:00 EST	0		Marine Thunderstorm Wind (EG 36 kt)
	07/10/13 20:12 EST	0		Source: Mesonet
Wind gusts of 36 knots were measured at Tolchester Beach.				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- THOMAS POINT LIGHT [38.90, -76.44]</b>				
	07/10/13 20:00 EST	0		Marine Thunderstorm Wind (EG 46 kt)
	07/10/13 20:00 EST	0		Source: Buoy
Wind gusts of 46 knots were measured at Thomas Point Lighthouse.				
<b>A Bermuda High continued to usher tropical moisture into the Mid Atlantic. A shortwave trough ahead of the main trough produced showers and thunderstorms in the unsettled region.</b>				
<b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.5 E QUANTICO [38.50, -77.30]</b>				
	07/12/13 01:16 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	07/12/13 01:16 EST	0		Source: AWOS
Wind gusts of 32 knots were measured at Quantico.				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.3 WSW KENT ISLAND [38.92, -76.36]</b>				
	07/12/13 03:28 EST	0		Marine Thunderstorm Wind (EG 35 kt)
	07/12/13 03:44 EST	0		Source: Mesonet
Wind gusts of 35 knots were measured at Kent Island.				

## Storm Data and Unusual Weather Phenomena - July 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- 6.3 NNW MID BAY BUOY [38.56, -76.41]</b>				
	07/12/13 04:00 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	07/12/13 04:00 EST	0		Source: Buoy
Wind gusts of 33 knots were measured at Gooses Reef.				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- THOMAS POINT LIGHT [38.90, -76.44]</b>				
	07/12/13 04:00 EST	0		Marine Thunderstorm Wind (EG 40 kt)
	07/12/13 05:00 EST	0		Source: Mesonet
Wind gusts of 40 knots were measured at Thomas Point Lighthouse.				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.4 SE TOLLY POINT [38.94, -76.44]</b>				
	07/12/13 04:02 EST	0		Marine Thunderstorm Wind (EG 37 kt)
	07/12/13 04:02 EST	0		Source: Mesonet
Wind gusts of 37 knots were measured at Tolly Point.				
<p><b>A frontal boundary moved northward and stalled over the Mid-Atlantic/I-95 corridor overnight. An upper level low approached the region and an upper level jet added to enhanced lift in the region. Heavy rain caused a lot of flash flooding with amounts up to seven inches in less than 6 hours recorded near Washington Dulles Airport. Showers also produced gusty winds on the waters.</b></p>				
<b>CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- 5.4 SE SUSQUEHANNA [39.50, -75.99]</b>				
	07/20/13 19:54 EST	0		Marine Thunderstorm Wind (EG 37 kt)
	07/20/13 19:54 EST	0		Source: Mesonet
Wind gusts of 37 knots were measured at North Bay North East.				
<b>CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- 7.2 SSE PHILLIPS ARMY AIRFIELD [39.38, -76.11]</b>				
	07/20/13 20:34 EST	0		Marine Thunderstorm Wind (EG 37 kt)
	07/20/13 20:34 EST	0		Source: Mesonet
Wind gusts of 37 knots were measured at North Bay.				
<p><b>High pressure was located over much of the eastern United States for a consecutive day and light southerly flow persisted all week which led to above normal temperatures and dew points in the mid 70s. This unstable atmosphere led to thunderstorm development in the afternoon ahead of an approaching cold front.</b></p>				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.9 SE GREENBERRY POINT [38.96, -76.45]</b>				
	07/21/13 15:50 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	07/21/13 15:50 EST	0		Source: Buoy
Wind gusts of 33 knots were measured at Annapolis Buoy.				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.2 SE GREENBERRY POINT [38.97, -76.46]</b>				
	07/21/13 15:53 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	07/21/13 15:53 EST	0		Source: Mesonet
Wind gusts of 34 knots were measured at Greenbury Point.				
<b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.5 E QUANTICO [38.50, -77.30]</b>				
	07/21/13 15:59 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	07/21/13 15:59 EST	0		Source: AWOS
Wind gusts of 32 knots were measured at Quantico.				
<b>CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- 6.3 NNW MID BAY BUOY [38.56, -76.41]</b>				
	07/21/13 17:40 EST	0		Marine Thunderstorm Wind (EG 41 kt)
	07/21/13 18:20 EST	0		Source: Buoy
Wind gusts of 41 knots were measured at Gooses Reef Buoy.				

## Storm Data and Unusual Weather Phenomena - July 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.4 SSW SMITH ISLAND [37.98, -76.04]</b>				
	07/21/13 19:03 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	07/21/13 19:03 EST		0	Source: Mesonet

Wind gusts of 34 knots were measured at Smith Island.

<b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.3 SE CRISFIELD [37.97, -75.88]</b>				
	07/21/13 19:33 EST		0	Marine Thunderstorm Wind (EG 42 kt)
	07/21/13 19:53 EST		0	Source: Mesonet

Wind gusts of 42 knots were measured at Crisfield.

<b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 1.5 ENE CRISFIELD [37.98, -75.86]</b>				
	07/21/13 19:39 EST		0	Marine Thunderstorm Wind (EG 45 kt)
	07/21/13 20:04 EST		0	Source: Mesonet

Wind gusts of 45 knots were measured at Crisfield.

**A weak cold front moved southward into the Mid Atlantic. A line of showers and thunderstorms formed and moved southward and heavy rain and gusty winds were observed.**

<b>CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 6.7 ENE BALTIMORE APPROACHES BUOY [39.21, -76.25]</b>				
	07/23/13 00:00 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	07/23/13 00:00 EST		0	Source: Mesonet

Wind gusts of 34 knots were measured at Tolchester Beach.

**A surface trough was over the area while an upper level disturbance moved overhead. Showers and thunderstorms produced heavy rainfall as they moved eastward towards the I-95 corridor and surrounding waters.**

### DISTRICT OF COLUMBIA

<b>DISTRICT OF COLUMBIA COUNTY --- 2.5 W GEORGETOWN [38.92, -77.10], 2.6 SSE DALECARLIA RESERVOIR [38.92, -77.10], 2.6 W GEORGETOWN [38.91, -77.10], 2.6 W GEORGETOWN [38.91, -77.10]</b>				
	07/12/13 03:00 EST		0	Flash Flood (due to Heavy Rain)
	07/12/13 05:00 EST		0	Source: 911 Call Center

Canal Road was closed due to flooding.

<b>DISTRICT OF COLUMBIA COUNTY --- 1.1 N LINCOLN MEMORIAL [38.90, -77.05], 1.2 N LINCOLN MEMORIAL [38.90, -77.05], 1.1 N LINCOLN MEMORIAL [38.90, -77.05], 1.1 N LINCOLN MEMORIAL [38.90, -77.05]</b>				
	07/12/13 03:30 EST		0	Flash Flood (due to Heavy Rain)
	07/12/13 05:30 EST		0	Source: 911 Call Center

Virginia Ave NW was closed between 22nd and 24th due to flash flooding.

**A frontal boundary moved northward and stalled over the Mid-Atlantic/I-95 corridor overnight. An upper level low approached the region and a upper level jet added to enhanced lift in the region. Heavy rain caused a lot of flash flooding with amounts up to seven inches in less than 6 hours recorded near Washington Dulles Airport.**

<b>(DC-Z001) DISTRICT OF COLUMBIA</b>				
	07/18/13 12:52 EST		0	Heat
	07/18/13 18:30 EST		0	

**High pressure was located over much of the eastern United States and light southerly flow persisted all week which led to above normal temperatures and dew points in the mid 70s.**

<b>(DC-Z001) DISTRICT OF COLUMBIA</b>				
	07/19/13 12:30 EST		0	Excessive Heat
	07/19/13 14:30 EST		0	

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High pressure was located over much of the eastern United States for a consecutive day and light southerly flow persisted all week which led to above normal temperatures and dew points in the mid 70s.

### MARYLAND, Central

#### PRINCE GEORGE'S COUNTY --- 1.8 S CRESTVIEW MANOR [38.70, -76.90], 0.7 NE CRESTVIEW MANOR [38.74, -76.89]

07/01/13 18:33 EST	0.50K	Tornado (EF0, L: 2.30 mi , W: 75 yd)
07/01/13 18:33 EST	0.50K	Source: NWS Storm Survey

After a review of radar observations, eyewitness reports and video and a ground survey, The National Weather Service Baltimore/Washington DC has confirmed a EF-0 tornado touched down in the area south of Clinton and west of Brandywine Maryland in Prince Georges County Maryland on the evening of Monday, July 1 2013.

Peak winds are estimated to have been 65 mph with much of the two mile track falling between 40 to 65 mph. Those winds were enough to snap large limbs between 6 and 12 inch diameter and top several trees. Topping means a tree was twisted and snapped high up. The only noted minor structural damage was some flashing peeled from one home in the Crestview Manor development of Eilerson Street and some minor vinyl fence damage off Whitaker Park Drive.

The rotating cloud that eventually produced this tornado was seen and documented by several spotters and members of the public from Northern Charles County to where it touched down in Southern Prince Georges County.

**The Mid Atlantic was between an upper level trough and ridge. Multiple upper level disturbances were moving through producing showers and thunderstorms. Low level shear and high dew points led to a tornado forming in Prince George's County.**

#### FREDERICK COUNTY --- 1.7 WSW MIDDLETOWN [39.44, -77.58]

07/07/13 15:24 EST	0	Thunderstorm Wind (EG 52 kt)
07/07/13 15:24 EST	0.25K	Source: 911 Call Center

There was a tree down near the intersection of Bidle Road and Freestate Drive.

#### FREDERICK COUNTY --- 1.5 SSW BRADDOCK HGTS [39.41, -77.51]

07/07/13 15:29 EST	0	Thunderstorm Wind (EG 52 kt)
07/07/13 15:29 EST	0.25K	Source: 911 Call Center

There was a tree down near the 6500 block of Jefferson Blvd.

**An upper level disturbance moved over the panhandle of West Virginia. Hot and humid conditions persisted across the Mid Atlantic. Marginal instability helped produce strong winds.**

#### MONTGOMERY COUNTY --- 0.7 NNW SOMERSET [38.96, -77.11], 0.8 NW SOMERSET [38.96, -77.11], 0.7 NW SOMERSET [38.96, -77.11], 0.6 NW SOMERSET [38.96, -77.11]

07/12/13 00:30 EST	0	Flash Flood (due to Heavy Rain)
07/12/13 02:30 EST	0	Source: 911 Call Center

There was a water rescue at Little Falls Parkway near Massachusetts Ave.

#### MONTGOMERY COUNTY --- 0.9 E EMERY CORNERS [38.98, -77.15], 0.6 ESE EMERY CORNERS [38.98, -77.16], 0.6 ENE CABIN JOHN [38.97, -77.16], 0.8 ENE CABIN JOHN [38.97, -77.16]

07/12/13 02:33 EST	0	Flash Flood (due to Heavy Rain)
07/12/13 04:33 EST	0	Source: 911 Call Center

These roads were closed: River Road, Golsboro, Macarthur Blvd, Goldleaf and Cabin John Parkway.

#### PRINCE GEORGE'S COUNTY --- 0.3 W PHELPS CORNER [38.80, -76.99], 0.4 W PHELPS CORNER [38.80, -76.99], 0.3 W PHELPS CORNER [38.80, -76.99], 0.3 W PHELPS CORNER [38.80, -76.99]

07/12/13 03:06 EST	0	Flash Flood (due to Heavy Rain)
07/12/13 05:06 EST	0	Source: 911 Call Center

There was a water rescue on Livingstone Road and multiple intersections were flooded on Oxon Hill.

## Storm Data and Unusual Weather Phenomena - July 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>ANNE ARUNDEL COUNTY --- 1.4 N SELBY BEACH [38.92, -76.52], 1.4 N SELBY BEACH [38.92, -76.52], 1.3 N SELBY BEACH [38.92, -76.52], 1.3 N SELBY BEACH [38.92, -76.52]</b>				
	07/12/13 04:50 EST		0	Flash Flood (due to Heavy Rain)
	07/12/13 06:50 EST		0	Source: Department of Highways

The 400 block of Walnut Drive was closed due to flooding.

<b>ANNE ARUNDEL COUNTY --- 1.4 SSW HARWOOD [38.85, -76.63], 1.4 SSW HARWOOD [38.85, -76.63], 1.4 NNW MT ZION [38.85, -76.63], 1.3 NNW MT ZION [38.85, -76.63]</b>				
	07/12/13 04:50 EST		0	Flash Flood (due to Heavy Rain)
	07/12/13 06:50 EST		0	Source: Department of Highways

Polling House road was closed between Sigma Drive and Bayard Road.

**A frontal boundary moved northward and stalled over the Mid-Atlantic/I-95 corridor overnight. An upper level low approached the region and a upper level jet added to enhanced lift in the region. Heavy rain caused a lot of flash flooding with amounts up to seven inches in less than 6 hours recorded near Washington Dulles Airport.**

<b>(MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z007) HARFORD, (MD-Z009) MONTGOMERY, (MD-Z010) HOWARD, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z013) PRINCE GEORGES, (MD-Z014) ANNE ARUNDEL, (MD-Z016) CHARLES, (MD-Z017) ST. MARY'S, (MD-Z018) CALVERT</b>				
	07/18/13 10:45 EST	4	0	Heat
	07/18/13 20:00 EST		0	

Direct Fatalities: M????, U????, U0??

**High pressure was located over much of the eastern United States and light southerly flow persisted all week which led to above normal temperatures and dew points in the mid 70s.**

<b>(MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z007) HARFORD, (MD-Z009) MONTGOMERY, (MD-Z010) HOWARD, (MD-Z013) PRINCE GEORGES, (MD-Z014) ANNE ARUNDEL, (MD-Z016) CHARLES, (MD-Z017) ST. MARY'S, (MD-Z018) CALVERT</b>				
	07/19/13 08:30 EST		0	Heat
	07/19/13 16:40 EST		0	

<b>(MD-Z007) HARFORD, (MD-Z011) SOUTHERN BALTIMORE</b>				
	07/19/13 10:30 EST		0	Excessive Heat
	07/19/13 15:30 EST		0	

**High pressure was located over much of the eastern United States for a consecutive day and light southerly flow persisted all week which led to above normal temperatures and dew points in the mid 70s.**

<b>ANNE ARUNDEL COUNTY --- 0.4 SSE FT MEADE JCT [39.11, -76.78]</b>				
	07/19/13 16:50 EST		0	Thunderstorm Wind (EG 52 kt)
	07/19/13 16:50 EST		0.25K	Source: Other Federal Agency

There was a tree down on Baltimore Washington Parkway.

<b>WASHINGTON COUNTY --- 0.6 N MAUGANSVILLE [39.69, -77.75]</b>				
	07/19/13 17:45 EST		0	Thunderstorm Wind (EG 52 kt)
	07/19/13 17:45 EST		2K	Source: Trained Spotter

There were two 18 inch diameter trees blown over.

<b>WASHINGTON COUNTY --- 0.7 S SECURITY [39.64, -77.70]</b>				
	07/19/13 17:47 EST		0	Thunderstorm Wind (EG 52 kt)
	07/19/13 17:47 EST		0.25K	Source: Broadcast Media

There was a tree down at the Walmart off of Garland Street.

**High pressure was off the South Carolina coast. Warm and humid conditions existed across the Mid Atlantic and isolated thunderstorms formed over the higher terrain.**

## Storm Data and Unusual Weather Phenomena - July 2013

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<b>(MD-Z014) ANNE ARUNDEL</b>				
	07/20/13 14:50 EST		0	Heat
	07/20/13 16:50 EST		0	
<p>High pressure was located over much of the eastern United States for a consecutive day and light southerly flow persisted all week which led to above normal temperatures and dew points in the mid 70s.</p>				
<b>MONTGOMERY COUNTY --- 1.4 SSE HYATTSTOWN [39.26, -77.31]</b>				
	07/20/13 19:35 EST		0	Thunderstorm Wind (EG 56 kt)
	07/20/13 19:35 EST		0.25K	Source: 911 Call Center
<p>There was a tree down near a truck weigh station.</p> <p>High pressure was located over much of the eastern United States for a consecutive day and light southerly flow persisted all week which led to above normal temperatures and dew points in the mid 70s. This unstable atmosphere led to thunderstorm development in the afternoon ahead of a approaching cold front.</p>				
<b>BALTIMORE COUNTY --- 1.1 SSW BOWLEYS QUARTERS [39.31, -76.38], 1.4 SW BOWLEYS QUARTERS [39.31, -76.39], 1.6 SSW BOWLEYS QUARTERS [39.31, -76.38], 1.3 SSW BOWLEYS QUARTERS [39.31, -76.38]</b>				
	07/21/13 16:30 EST		0	Flash Flood (due to Heavy Rain)
	07/21/13 18:30 EST		0	Source: Emergency Manager
<p>There were two roads with 6 to 12 inches of flowing water over them. One of the roads had a foot of ponding and one swift water rescue.</p> <p>A weak cold front moved southward into the Mid Atlantic. A line of showers and thunderstorms formed and moved southward and heavy rain was observed.</p>				
<b>HARFORD COUNTY --- 1.0 E DARLINGTON [39.63, -76.18], 1.7 E DARLINGTON [39.63, -76.17]</b>				
	07/22/13 23:12 EST		3K	Tornado (EF0, L: 0.80 mi , W: 100 yd)
	07/22/13 23:13 EST		2K	Source: NWS Storm Survey
<p>The tornado initially touched down in the 1300 block of Stafford Road where a pole barn was destroyed and a nearby house had exterior damage including removal of a window, siding and insulation. The tornado then traveled on an east-northeast path along Stafford Road where numerous trees were topped and snapped and numerous crops were damaged along a convergent path in a cornfield. The tornado lifted in the 1100 block of Stafford Road.</p> <p>A surface trough was over the area while an upper level disturbance moved overhead. Showers and thunderstorms produced heavy rainfall as they moved eastward towards the I-95 corridor.</p>				
<b>CARROLL COUNTY --- 1.3 ESE UNIONTOWN [39.59, -77.10]</b>				
	07/28/13 20:57 EST		5K	Thunderstorm Wind (EG 56 kt)
	07/28/13 20:57 EST		2K	Source: Public
<p>There were multiple trees damaged as well as damage to a building on 500 block of Jasontown Road.</p>				
<b>CARROLL COUNTY --- 1.2 WSW FRIZZELLBURG [39.60, -77.09]</b>				
	07/28/13 21:00 EST		0	Thunderstorm Wind (EG 52 kt)
	07/28/13 21:00 EST		2K	Source: Public
<p>There were three pear trees snapped off.</p>				
<b>CARROLL COUNTY --- 2.3 N WESTMINSTER ARPT [39.63, -77.00]</b>				
	07/28/13 21:13 EST		0	Thunderstorm Wind (EG 56 kt)
	07/28/13 21:13 EST		2K	Source: 911 Call Center
<p>There were several trees down along route 97 between Stone Road and Bachmans Valley Road.</p>				
<b>CARROLL COUNTY --- 0.7 NNW WESTMINSTER ARPT [39.61, -77.01]</b>				
	07/28/13 21:20 EST		0	Thunderstorm Wind (MG 55 kt)
	07/28/13 21:20 EST		0	Source: AWOS
<b>BALTIMORE COUNTY --- 0.5 WNW BECKLEYSVILLE [39.63, -76.78]</b>				
	07/28/13 21:37 EST		0	Thunderstorm Wind (EG 56 kt)
	07/28/13 21:37 EST		2K	Source: Public



## Storm Data and Unusual Weather Phenomena - July 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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There were numerous trees down and topped.

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### HARFORD COUNTY --- 1.0 WNW NORRISVILLE [39.71, -76.55]

07/28/13 22:00 EST	0	Thunderstorm Wind (EG 52 kt)
07/28/13 22:00 EST	0.25K	Source: Emergency Manager

There was a tree down on 2900 block of Duncan Road.

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### HARFORD COUNTY --- 1.8 NNE SHAWSVILLE [39.65, -76.54]

07/28/13 22:06 EST	1K	Thunderstorm Wind (EG 52 kt)
07/28/13 22:06 EST	0	Source: Emergency Manager

There was a pole broken with wires down on the 2900 Block of Bradenbaugh Road.

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### HARFORD COUNTY --- 0.9 NE STREET [39.68, -76.37]

07/28/13 22:34 EST	1K	Thunderstorm Wind (EG 52 kt)
07/28/13 22:34 EST	0.25K	Source: 911 Call Center

There was one tree down and wires down on Route 543 within one mile of Route 165.

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### HARFORD COUNTY --- 1.0 E WHITEFORD [39.70, -76.33]

07/28/13 22:38 EST	0	Thunderstorm Wind (EG 56 kt)
07/28/13 22:38 EST	2K	Source: Emergency Manager

There were multiple trees down on the 1500 block of Ridge Road.

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

07/28/13 22:50 EST	0	Thunderstorm Wind (EG 52 kt)
07/28/13 22:50 EST	0.25K	Source: Emergency Manager

There was a tree down on the 1400 block of Boggs Road.

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### HARFORD COUNTY --- 3.2 NW BERKLEY [39.70, -76.25]

07/28/13 22:50 EST	0	Thunderstorm Wind (EG 52 kt)
07/28/13 22:50 EST	0.25K	Source: Trained Spotter

There was a tree down on Flintville Road about one quarter mile north of Broad Creek.

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

07/28/13 22:54 EST	0	Thunderstorm Wind (EG 52 kt)
07/28/13 22:54 EST	0.25K	Source: Trained Spotter

There was a tree down on Flintville Road.

**An upper level low was over the Great Lakes and a cold front moved through the Mid Atlantic. Warm and humid conditions, with dew points in the 70s, were ahead of the cold front and led to destabilization. The majority of the thunderstorms with wind damage moved through North Central MD.**

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## VIRGINIA, North

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### NELSON COUNTY --- 1.4 ENE COLLEEN [37.71, -78.93]

07/10/13 14:43 EST	0	Thunderstorm Wind (EG 52 kt)
07/10/13 14:43 EST	0.25K	Source: 911 Call Center

There was a tree down across Tyebrook Highway at the intersection of Route 28 and 88.

**A Bermuda High continued to usher tropical moisture into the Mid Atlantic. A shortwave trough ahead of the main trough produced showers and thunderstorms in the unsettled region.**

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### ALBEMARLE COUNTY --- 2.0 N RED HILL [38.00, -78.63], 2.0 NNW RED HILL [38.00, -78.63], 1.8 NNW RED HILL [37.99, -78.63], 1.8 NNW RED HILL [37.99, -78.63]

## Storm Data and Unusual Weather Phenomena - July 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/11/13 21:00 EST		0	Flash Flood (due to Heavy Rain)
	07/11/13 23:00 EST		0	Source: 911 Call Center
Taylors Gap Road was closed.				
<b>NELSON COUNTY --- 3.4 E TYRO [37.83, -78.94], 3.3 E TYRO [37.83, -78.94], 3.2 E TYRO [37.82, -78.94], 3.4 E TYRO [37.82, -78.94]</b>				
	07/11/13 21:00 EST		0	Flash Flood (due to Heavy Rain)
	07/11/13 23:00 EST		0	Source: 911 Call Center
A road was washed out in the Branch Mountain area off Patrick Henry Highway.				
<b>ALBEMARLE COUNTY --- 1.3 SSW IVY [38.03, -78.61], 1.4 SSW IVY [38.03, -78.61], 1.5 SSW IVY [38.03, -78.61], 1.4 SSW IVY [38.03, -78.61]</b>				
	07/11/13 21:42 EST		0	Flash Flood (due to Heavy Rain)
	07/11/13 23:42 EST		0	Source: 911 Call Center
A road was closed due to flash flooding at 3600 Block of Dick Woods Road.				
<b>ALBEMARLE COUNTY --- 2.1 ENE MILLER SCHOOL [38.03, -78.64], 2.0 ENE MILLER SCHOOL [38.03, -78.64], 2.0 E MILLER SCHOOL [38.02, -78.64], 2.1 E MILLER SCHOOL [38.02, -78.64]</b>				
	07/11/13 21:54 EST		0	Flash Flood (due to Heavy Rain)
	07/11/13 23:54 EST		0	Source: 911 Call Center
A road was closed at 4300 Block of Dick Woods Road.				
<b>ALBEMARLE COUNTY --- 2.9 NE RED HILL [38.00, -78.58], 2.8 NE RED HILL [37.99, -78.58], 2.6 NE RED HILL [37.99, -78.58], 2.7 NE RED HILL [38.00, -78.58]</b>				
	07/11/13 22:00 EST		0	Flash Flood (due to Heavy Rain)
	07/12/13 00:00 EST		0	Source: 911 Call Center
There was a road closed at 1100 and 1700 Block of Monacan Trail Road.				
<b>ALBEMARLE COUNTY --- 0.9 N RED HILL [37.98, -78.62], 0.9 NNW RED HILL [37.98, -78.63], 0.6 NNW RED HILL [37.98, -78.62], 0.6 N RED HILL [37.98, -78.62]</b>				
	07/11/13 22:17 EST		0	Flash Flood (due to Heavy Rain)
	07/12/13 00:17 EST		0	Source: 911 Call Center
The 2000 Block of Red Hill Road was closed due to flash flooding.				
<b>ROCKINGHAM COUNTY --- 1.2 SSW CLOVER HILL [38.43, -79.04], 1.3 SSW CLOVER HILL [38.43, -79.04], 1.4 SSW CLOVER HILL [38.43, -79.04], 1.3 SSW CLOVER HILL [38.43, -79.04]</b>				
	07/11/13 22:57 EST		0	Flash Flood (due to Heavy Rain)
	07/12/13 00:57 EST		0	Source: 911 Call Center
There was a water rescue near 8700 Block of Waggy's Creek Road.				
<b>PAGE COUNTY --- 0.6 SSW NEWPORT [38.57, -78.61], 1.0 SW NEWPORT [38.57, -78.62], 1.4 SW NEWPORT [38.56, -78.62], 1.0 SSW NEWPORT [38.57, -78.61]</b>				
	07/11/13 22:59 EST		0	Flash Flood (due to Heavy Rain)
	07/12/13 00:59 EST		0	Source: 911 Call Center
There were multiple roads closed in Page County including Newport Road, Grove Hill Run, Dam Acres Lane and Cub Run Farm.				
<b>FAIRFAX COUNTY --- 1.4 W CHANTILLY [38.90, -77.46], 1.5 W CHANTILLY [38.90, -77.46], 1.5 W CHANTILLY [38.90, -77.46], 1.5 W CHANTILLY [38.90, -77.46]</b>				
	07/11/13 23:10 EST		0	Flash Flood (due to Heavy Rain)
	07/12/13 01:10 EST		0	Source: 911 Call Center
There was flash flooding reported near the intersection of National Drive and Airline Parkway.				
<b>FAIRFAX COUNTY --- 2.8 SW CHANTILLY [38.88, -77.47], 2.8 SW CHANTILLY [38.88, -77.47], 2.9 SW CHANTILLY [38.88, -77.47], 2.8 SW CHANTILLY [38.88, -77.47]</b>				

## Storm Data and Unusual Weather Phenomena - July 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/11/13 23:10 EST		0	Flash Flood (due to Heavy Rain)
	07/12/13 00:10 EST		0	Source: 911 Call Center

There was flash flooding reported on Braddock Road near Old Lee Road.

LOUDOUN COUNTY --- 1.9 SE STERLING [38.98, -77.41], 1.9 SE STERLING [38.98, -77.41], 1.9 SSE STERLING [38.98, -77.41], 2.0 SE STERLING [38.98, -77.41]				
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/11/13 23:15 EST		0	Flash Flood (due to Heavy Rain)
	07/12/13 01:15 EST		0	Source: 911 Call Center

There was approximately six inches of flowing water on Old Ox Road near Rock Hill Road.

ROCKINGHAM COUNTY --- 1.4 WSW MONTEZUMA [38.41, -79.00], 1.5 ENE SPRING CREEK [38.41, -79.01], 1.5 ENE SPRING CREEK [38.41, -79.00], 1.5 WSW MONTEZUMA [38.41, -79.00]				
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/11/13 23:15 EST		0	Flash Flood (due to Heavy Rain)
	07/12/13 01:15 EST		0	Source: 911 Call Center

There was a water rescue near Beaver Creek Road and Silver Creek Road.

HARRISONBURG (C) COUNTY --- 1.0 NNE HARRISONBURG [38.46, -78.86], 1.0 N HARRISONBURG [38.46, -78.87], 0.8 N HARRISONBURG [38.46, -78.87], 0.9 NNE HARRISONBURG [38.46, -78.86]				
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/12/13 00:00 EST		0	Flash Flood (due to Heavy Rain)
	07/12/13 02:00 EST		0	Source: 911 Call Center

There were road closures including North Liberty Street, Raleigh Pike, Coopers Mountain and 5800 Block Thomas Spring Road.

ROCKINGHAM COUNTY --- 0.5 SW DAYTON [38.41, -78.94], 0.6 WSW DAYTON [38.42, -78.94], 0.8 SW DAYTON [38.41, -78.94], 0.6 SSW DAYTON [38.41, -78.94]				
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/12/13 00:00 EST		0	Flash Flood (due to Heavy Rain)
	07/12/13 02:00 EST		0	Source: 911 Call Center

There were road closures in Dayton including Huffman Drive, College Street and Silver Lake Road.

LOUDOUN COUNTY --- 1.3 SW STERLING [38.98, -77.44], 1.4 SW STERLING [38.98, -77.45], 1.4 SW STERLING [38.98, -77.44], 1.4 SSW STERLING [38.98, -77.44]				
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/12/13 00:02 EST		0	Flash Flood (due to Heavy Rain)
	07/12/13 02:02 EST		0	Source: Fire Department/Rescue

There was a water rescue on Relocation Drive between Underwood Lane and Executive Drive.

PAGE COUNTY --- 1.8 SE HANEYVILLE [38.56, -78.55], 1.7 SSE HANEYVILLE [38.56, -78.55], 1.9 SSE HANEYVILLE [38.56, -78.55], 2.0 SE HANEYVILLE [38.56, -78.55]				
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/12/13 00:40 EST		0	Flash Flood (due to Heavy Rain)
	07/12/13 02:40 EST		0	Source: 911 Call Center

There were two feet of water flowing over top Dovel Hollow Road.

PRINCE WILLIAM COUNTY --- 3.1 NNE WELLINGTON [38.82, -77.52], 3.0 NNE WELLINGTON [38.82, -77.53], 2.9 NNE WELLINGTON [38.82, -77.53], 3.0 NNE WELLINGTON [38.82, -77.52]				
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/12/13 00:45 EST		0	Flash Flood (due to Heavy Rain)
	07/12/13 02:45 EST		0	Source: 911 Call Center

The intersection of Sudley Road and Lee Highway was not passable due to high water.

ALBEMARLE COUNTY --- 68.0 NE BURNLEYS [38.85, -77.44], 67.9 NE BURNLEYS [38.85, -77.44], 67.9 NE BURNLEYS [38.85, -77.44], 67.9 NE BURNLEYS [38.85, -77.44]				
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/12/13 01:00 EST		0	Flash Flood (due to Heavy Rain)
	07/12/13 03:00 EST		0	Source: 911 Call Center

There was a swift water rescue in Centreville.

## Storm Data and Unusual Weather Phenomena - July 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>PAGE COUNTY --- 1.9 SSE FLEEBURG [38.46, -78.58], 1.9 SSE FLEEBURG [38.46, -78.58], 2.0 SSE FLEEBURG [38.45, -78.58], 2.0 SSE FLEEBURG [38.45, -78.58]</b>				
	07/12/13 01:10 EST		0	Flash Flood (due to Heavy Rain)
	07/12/13 03:10 EST		0	Source: 911 Call Center
Loop Road was flooded at a bridge near Naked Creek.				
<b>PAGE COUNTY --- 2.3 NE INGHAM [38.55, -78.55], 2.2 NE INGHAM [38.55, -78.55], 2.1 NE INGHAM [38.55, -78.55], 2.2 NE INGHAM [38.55, -78.55]</b>				
	07/12/13 01:45 EST		0	Flash Flood (due to Heavy Rain)
	07/12/13 03:45 EST		0	Source: 911 Call Center
There was a swift water rescue on Dovel Hollow Road.				
<b>FAIRFAX COUNTY --- 0.4 SW DUNN LORING [38.88, -77.24], 0.4 SW DUNN LORING [38.88, -77.24], 0.5 SW DUNN LORING [38.88, -77.24], 0.4 SW DUNN LORING [38.88, -77.24]</b>				
	07/12/13 02:46 EST		0	Flash Flood (due to Heavy Rain)
	07/12/13 04:46 EST		0	Source: 911 Call Center
Prosperity Ave was closed due to flooding.				
<b>FAIRFAX COUNTY --- 75.4 NE LINDSAY [38.78, -77.19], 75.3 NE LINDSAY [38.78, -77.19], 75.3 NE LINDSAY [38.78, -77.19], 75.4 NE LINDSAY [38.78, -77.19]</b>				
	07/12/13 02:54 EST		0	Flash Flood (due to Heavy Rain)
	07/12/13 04:54 EST		0	Source: 911 Call Center
There was a road closure at Amherst Ave and Floyd Ave.				
<b>FAUQUIER COUNTY --- 0.6 NW CATLETT [38.66, -77.64], 0.7 WNW CATLETT [38.66, -77.64], 0.6 WNW CATLETT [38.65, -77.64], 0.4 WNW CATLETT [38.65, -77.64]</b>				
	07/12/13 03:15 EST		0	Flash Flood (due to Heavy Rain)
	07/12/13 05:15 EST		0	Source: Emergency Manager
There were road closures in Catlett.				
<b>A frontal boundary moved northward and stalled over the Mid-Atlantic/I-95 corridor overnight. An upper level low approached the region and a upper level jet added to enhanced lift in the region. Heavy rain caused a lot of flash flooding with amounts up to seven inches in less than 6 hours recorded near Washington Dulles Airport.</b>				
<b>(VA-Z027) SHENANDOAH, (VA-Z029) PAGE, (VA-Z050) ORANGE, (VA-Z055) STAFFORD, (VA-Z056) SPOTSYLVANIA, (VA-Z057) KING GEORGE</b>				
	07/14/13 02:15 EST		0	Dense Fog
	07/14/13 07:20 EST		0	
High pressure was over saturated Mid-Atlantic region and calm winds and clear skies led to dense fog development in parts of the Virginia Piedmont.				
<b>AUGUSTA COUNTY --- 0.9 ENE STOKESVILLE [38.35, -79.13]</b>				
	07/16/13 19:04 EST		0	Thunderstorm Wind (EG 52 kt)
	07/16/13 19:04 EST		0.25K	Source: Emergency Manager
There was a tree down at the intersection of North River Road and Bear Trap Farm Road.				
<b>ROCKINGHAM COUNTY --- 0.7 E COOTES STORE [38.63, -78.84]</b>				
	07/16/13 20:37 EST		0	Thunderstorm Wind (EG 52 kt)
	07/16/13 20:37 EST		0.25K	Source: Public
There was a tree down on Brooks Gap Road and Route 259.				
<b>A warm and humid air mass was in place across the Mid Atlantic. Thunderstorms formed in the unstable air mass across the Central Foothills and Piedmont.</b>				
<b>(VA-Z042) LOUDOUN, (VA-Z050) ORANGE, (VA-Z051) CULPEPER, (VA-Z052) PRINCE WILLIAM, (VA-Z053) FAIRFAX, (VA-Z054) ARLINGTON, (VA-Z055) STAFFORD, (VA-Z056) SPOTSYLVANIA, (VA-Z057) KING GEORGE, (VA-Z502) SOUTHERN FAUQUIER</b>				

## Storm Data and Unusual Weather Phenomena - July 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/18/13 11:56 EST		0	Heat
	07/18/13 18:30 EST		0	

High pressure was located over much of the eastern United States and light southerly flow persisted all week which led to above normal temperatures and dew points in the mid 70s.

(VA-Z042) LOUDOUN, (VA-Z050) ORANGE, (VA-Z051) CULPEPER, (VA-Z052) PRINCE WILLIAM, (VA-Z053) FAIRFAX, (VA-Z055) STAFFORD, (VA-Z056) SPOTSYLVANIA, (VA-Z057) KING GEORGE, (VA-Z502) SOUTHERN FAUQUIER				
	07/19/13 10:40 EST		0	Heat
	07/19/13 16:30 EST		0	

(VA-Z054) ARLINGTON				
	07/19/13 12:30 EST		0	Excessive Heat
	07/19/13 14:30 EST		0	

High pressure was located over much of the eastern United States for a consecutive day and light southerly flow persisted all week which led to above normal temperatures and dew points in the mid 70s.

HIGHLAND COUNTY --- 3.0 SE NEW HAMPDEN [38.45, -79.53]				
	07/19/13 14:06 EST		0	Thunderstorm Wind (EG 52 kt)
	07/19/13 14:06 EST		0.25K	Source: 911 Call Center

There was a tree down on Highway 220 near Route 627.

FREDERICK COUNTY --- 1.6 N HAYFIELD [39.25, -78.30]				
	07/19/13 16:22 EST		0	Hail (1.00 in)
	07/19/13 16:22 EST		0	Source: Trained Spotter

RAPPAHANNOCK COUNTY --- 0.6 NNE WOODVILLE [38.61, -78.18]				
	07/19/13 16:55 EST		0	Thunderstorm Wind (EG 52 kt)
	07/19/13 16:55 EST		0.25K	Source: Emergency Manager

There was a tree down at Rudasill Mills Road and Sperryville Pike.

High pressure was off the South Carolina coast. Warm and humid conditions existed across the Mid Atlantic and isolated thunderstorms formed over the higher terrain.

ALBEMARLE COUNTY --- 1.9 NE CARTERS BRIDGE [37.92, -78.55]				
	07/20/13 15:12 EST		0	Thunderstorm Wind (EG 52 kt)
	07/20/13 15:12 EST		0.50K	Source: Public

There were two trees down on State Highway 20 near Walton Middle.

NELSON COUNTY --- 0.5 NNE FABER [37.84, -78.75]				
	07/20/13 15:45 EST		0	Thunderstorm Wind (EG 52 kt)
	07/20/13 15:45 EST		0.25K	Source: 911 Call Center

There was a tree down near the intersection of Irish Road and Church Lane.

NELSON COUNTY --- 1.0 NNW SCHUYLER [37.79, -78.71]				
	07/20/13 15:50 EST		0	Thunderstorm Wind (EG 52 kt)
	07/20/13 15:50 EST		5K	Source: 911 Call Center

There were several trees down on Rockfish River Road blocking traffic. Numerous trees were also reported down on Route 6.

High pressure was located over much of the eastern United States for a consecutive day and light southerly flow persisted all week which led to above normal temperatures and dew points in the mid 70s. This unstable atmosphere led to thunderstorm development in the afternoon ahead of a approaching cold front.

NELSON COUNTY --- 0.8 NE TYE RIVER [37.66, -78.96]				
	07/28/13 21:35 EST		0	Thunderstorm Wind (EG 52 kt)
	07/28/13 21:35 EST		0.25K	Source: 911 Call Center

## Storm Data and Unusual Weather Phenomena - July 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A tree fell down blocking Route 29 in Southern Nelson County.				
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<b>SPOTSYLVANIA COUNTY --- 1.2 W PARKER [38.27, -77.77]</b>				
	07/29/13 00:36 EST		0.50K	Thunderstorm Wind (EG 52 kt)
	07/29/13 00:36 EST		0.50K	Source: Public
There were numerous tree limbs damaged and also a trellis damaged on the property of the 12600 block of Orange Plank Road.				
<b>An upper level low was over the Great Lakes and a cold front moved through the Mid Atlantic. Warm and humid conditions, with dew points in the 70s, were ahead of the cold front and led to destabilization. The majority of the thunderstorms with wind damage moved through North Central MD.</b>				
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<b>WEST VIRGINIA, East</b>				
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<b>MORGAN COUNTY --- 1.8 NW LARGENT [39.50, -78.40]</b>				
	07/07/13 14:23 EST		0	Thunderstorm Wind (EG 52 kt)
	07/07/13 14:23 EST		0.25K	Source: 911 Call Center
There was a tree down on Cacapon Road near Milo School Road.				
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<b>MORGAN COUNTY --- 0.6 W RIDERSVILLE [39.62, -78.19]</b>				
	07/07/13 14:37 EST		0	Thunderstorm Wind (EG 52 kt)
	07/07/13 14:37 EST		0.25K	Source: 911 Call Center
There was a tree down on Martinsburg Road near Peter Yost Road.				
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<b>MORGAN COUNTY --- 6.5 ESE CHERRY RUN [39.59, -77.92]</b>				
	07/07/13 14:58 EST		0	Thunderstorm Wind (EG 52 kt)
	07/07/13 14:58 EST		0.25K	Source: Emergency Manager
There was a tree down at the intersection of Tice Road and Grade Road.				
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<b>JEFFERSON COUNTY --- 0.9 SE BAKERTON [39.36, -77.76]</b>				
	07/07/13 15:13 EST		0	Thunderstorm Wind (EG 52 kt)
	07/07/13 15:13 EST		0.25K	Source: 911 Call Center
There was a tree down blocking the road.				
<b>An upper level disturbance moved over the panhandle of West Virginia. Hot and humid conditions persisted across the Mid Atlantic. Marginal instability helped produce strong winds.</b>				
<hr/>				
<b>HAMPSHIRE COUNTY --- 1.7 SSW YELLOW SPG [39.16, -78.54]</b>				
	07/11/13 20:29 EST		0	Thunderstorm Wind (EG 52 kt)
	07/11/13 20:29 EST		1K	Source: Trained Spotter
There were trees down along Capon Springs Road.				
<b>A Bermuda High continued to usher tropical moisture into the Mid Atlantic. A shortwave trough ahead of the main trough produced showers and thunderstorms in the unsettled region.</b>				
<hr/>				
<b>GRANT COUNTY --- 1.3 E HISER [38.97, -79.10], 1.1 E HISER [38.97, -79.10], 1.2 ESE HISER [38.96, -79.10], 1.4 ESE HISER [38.97, -79.10]</b>				
	07/11/13 22:30 EST		0	Flash Flood (due to Heavy Rain)
	07/12/13 00:30 EST		0	Source: 911 Call Center
There were three to four feet of water ponded on Durgon Road near Creitz Road. There was also a disabled vehicle in water.				
<b>A frontal boundary moved northward and stalled over the Mid-Atlantic/I-95 corridor overnight. An upper level low approached the region and a upper level jet added to enhanced lift in the region. Heavy rain caused a lot of flash flooding with amounts up to seven inches in less than 6 hours recorded near Washington Dulles Airport.</b>				
<hr/>				
<b>GRANT COUNTY --- 0.5 WSW PETERSBURG [39.00, -79.13]</b>				

## Storm Data and Unusual Weather Phenomena - July 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/19/13 14:06 EST		0	Thunderstorm Wind (EG 52 kt)
	07/19/13 14:06 EST		0.25K	Source: 911 Call Center

There was a tree down on Johnson Run Road.

### GRANT COUNTY --- 0.4 SSE PETERSBURG [38.99, -79.12]

	07/19/13 14:08 EST		0	Thunderstorm Wind (EG 52 kt)
	07/19/13 14:08 EST		0.25K	Source: 911 Call Center

There was a tree down at East Ave and Grant Street.

### PENDLETON COUNTY --- 1.4 N FRANKLIN [38.67, -79.33]

	07/19/13 14:54 EST		0	Hail (1.00 in)
	07/19/13 14:54 EST		0	Source: Public

### HARDY COUNTY --- 6.3 SW BRAKE [38.81, -79.10]

	07/19/13 14:58 EST		0	Thunderstorm Wind (EG 52 kt)
	07/19/13 14:58 EST		0.25K	Source: 911 Call Center

There was a tree down on South Fork Road.

### PENDLETON COUNTY --- 1.7 S BRANDYWINE [38.60, -79.25]

	07/19/13 14:58 EST		0	Thunderstorm Wind (EG 52 kt)
	07/19/13 14:58 EST		0.25K	Source: Trained Spotter

There were several trees limbs down on Sugar Grove Road.

### HARDY COUNTY --- 3.7 SW BRAKE [38.84, -79.07]

	07/19/13 15:44 EST		0	Thunderstorm Wind (EG 52 kt)
	07/19/13 15:44 EST		0.25K	Source: 911 Call Center

There was a tree down on the 18000 block of South Fork Road.

### GRANT COUNTY --- 1.3 WNW PETERSBURG GRANT ARP [39.01, -79.17]

	07/19/13 15:49 EST		0	Thunderstorm Wind (EG 52 kt)
	07/19/13 15:49 EST		0	Source: 911 Call Center

There was a tree down on Corners Road.

**High pressure was off the South Carolina coast. Warm and humid conditions existed across the Mid Atlantic and isolated thunderstorms formed over the higher terrain.**

### PENDLETON COUNTY --- 0.5 S FRANKLIN [38.64, -79.33], 0.5 SSW FRANKLIN [38.64, -79.33], 0.6 SSW FRANKLIN [38.64, -79.33], 0.7 S FRANKLIN [38.64, -79.33]

	07/19/13 15:14 EST		0	Flash Flood (due to Heavy Rain)
	07/19/13 17:14 EST		0	Source: Emergency Manager

There were several streets flooded in Franklin WV.

### PENDLETON COUNTY --- 1.8 W FRANKLIN [38.65, -79.36], 2.3 W FRANKLIN [38.65, -79.37], 2.5 WSW FRANKLIN [38.64, -79.37], 1.9 WSW FRANKLIN [38.64, -79.36]

	07/19/13 15:14 EST		0	Flash Flood (due to Heavy Rain)
	07/19/13 17:14 EST		0	Source: Emergency Manager

There was flash flooding on US Highway 33 2-3 miles west of Franklin.

**High pressure was off the South Carolina coast. Warm and humid conditions existed across the Mid Atlantic and isolated thunderstorms formed over the higher terrain.**

### HARDY COUNTY --- 0.4 ESE WARDENSVILLE [39.08, -78.59], 0.3 ESE WARDENSVILLE [39.08, -78.59], 0.4 SE WARDENSVILLE [39.08, -78.59], 0.5 ESE WARDENSVILLE [39.08, -78.59]

	07/22/13 20:00 EST		0	Flash Flood (due to Heavy Rain)
	07/22/13 22:00 EST		0	Source: Emergency Manager

## Storm Data and Unusual Weather Phenomena - July 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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There were three roads closed by water over the road.

A surface trough was over the area while an upper level disturbance moved overhead. Showers and thunderstorms produced heavy rainfall as they moved over the mountains.