

## Storm Data and Unusual Weather Phenomena - September 2015

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>ATLANTIC NORTH</b>				
<b>CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 3.1 NE MARTIN STATE AIRPORT [39.36, -76.37]</b>				
	09/04/15 15:40 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	09/04/15 15:40 EST	0		Source: Mesonet
GUN reported gusts between 32 and 34 knots.				
<b>Showers and thunderstorms were triggered along a nearly stalled back door cold front. Temperatures pushed well into the 80s, with even some 90s, allowing for MLCAPE values of around 2,000 J/kg.</b>				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- KENT ISLAND [38.92, -76.36]</b>				
	09/09/15 18:40 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	09/09/15 18:40 EST	0		Source: Mesonet
KNT reported gusts of 34 knots.				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- TOLLY POINT [38.94, -76.44]</b>				
	09/09/15 18:41 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	09/09/15 18:41 EST	0		Source: Mesonet
TOL reported gusts between 33 and 34 knots.				
<b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 1.6 NNE BABAR POINT [38.33, -77.02]</b>				
	09/09/15 19:05 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	09/09/15 19:05 EST	0		Source: Mesonet
PYL reported gusts between 31 and 34 knots.				
<b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- POTOMAC LIGHT [38.34, -76.99]</b>				
	09/09/15 19:09 EST	0		Marine Thunderstorm Wind (MG 48 kt)
	09/09/15 19:19 EST	0		Source: Mesonet
LT3 reported gusts between 37 and 48 knots.				
<b>Lee trough formed out ahead of an approaching cold front, acting as a surface trigger for scattered convection. Lack of shear led to the storms being pulse-like in nature, based upon increased instability values. Some of the storms became stronger with gusty winds.</b>				
<b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 1.6 WNW COBB POINT [38.26, -76.86], 1.7 NW COBB POINT [38.27, -76.85]</b>				
	09/12/15 13:26 EST	0		Waterspout
	09/12/15 13:32 EST	0		Source: Trained Spotter
Trained spotter witnessed the waterspout just offshore, south of Cobb Island. A video taken from Captain John's Crab House showed the waterspout moving through the marine just south of the restaurant. Radar confirmed the timing and track.				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 12.7 SSW THOMAS POINT LIGHT [38.73, -76.54]</b>				
	09/12/15 14:30 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	09/12/15 14:30 EST	0		Source: Mesonet
HRB reported gusts between 37 and 45 knots.				
<b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- SMITH ISLAND [37.98, -76.04]</b>				
	09/12/15 14:47 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	09/12/15 14:47 EST	0		Source: Mesonet
SIS reported gusts between 31 and 34 knots.				
<b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- CRISFIELD [37.97, -75.88]</b>				
	09/12/15 14:59 EST	0		Marine Thunderstorm Wind (MG 45 kt)
	09/12/15 15:04 EST	0		Source: Mesonet
CRS reported gusts between 37 and 45 knots.				

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A warm front extended west to east across central Virginia into the Tidewater Region. Extensive cloud cover north of the frontal boundary kept instability minimal, but with strong low level shear and a moist rich atmosphere near the front, strong thunderstorms were able to form and impact the waters.

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

09/29/15 21:11 EST	0	Marine Thunderstorm Wind (MG 35 kt)
09/29/15 21:21 EST	0	Source: Mesonet

TOL reported gusts between 31 and 35 knots.

**CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 4.2 WNW STEVENSVILLE [39.01, -76.40]**

09/29/15 21:20 EST	0	Marine Thunderstorm Wind (MG 35 kt)
09/29/15 21:20 EST	0	Source: Mesonet

SPT reported gusts of 35 knots.

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

09/29/15 21:20 EST	0	Marine Thunderstorm Wind (MG 41 kt)
09/29/15 21:30 EST	0	Source: Mesonet

GBY reported gusts between 31 and 41 knots.

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

09/29/15 21:40 EST	0	Marine Thunderstorm Wind (EG 34 kt)
09/29/15 22:10 EST	0	Source: Buoy

Pataspco Buoy 44043 reported gusts between 31 and 34 knots.

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

09/29/15 21:54 EST	0	Marine Thunderstorm Wind (EG 34 kt)
09/29/15 22:24 EST	0	Source: Mesonet

FSKM2 reported gusts between 31 and 34 knots.

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

09/29/15 21:55 EST	0	Marine Thunderstorm Wind (MG 34 kt)
09/29/15 21:55 EST	0	Source: Mesonet

HRT reported gusts of 34 knots.

**CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 3.1 NE MARTIN STATE AIRPORT [39.36, -76.37]**

09/29/15 22:00 EST	0	Marine Thunderstorm Wind (MG 34 kt)
09/29/15 22:05 EST	0	Source: Mesonet

GUN reported gusts between 31 and 34 knots.

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

09/29/15 22:35 EST	0	Marine Thunderstorm Wind (MG 35 kt)
09/29/15 23:00 EST	0	Source: Mesonet

GBY reported gusts between 31 and 35 knots.

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

09/29/15 22:51 EST	0	Marine Thunderstorm Wind (MG 35 kt)
09/29/15 22:56 EST	0	Source: Mesonet

TOL reported gusts between 33 and 35 knots.

Heavy rain event as low pressure moved through the Mid-Atlantic ahead of a slow moving cold front. Southerly flow ahead of the low pressure tapped into a moisture rich atmosphere over the Gulf of Mexico. While thunderstorms were isolated due to weaker shear and instability, the heaviest of the precipitation was able to bring down gusty winds from aloft.

## Storm Data and Unusual Weather Phenomena - September 2015

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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**MARYLAND, Central**

**ALLEGANY COUNTY --- 1.1 W WOLFE MILL [39.67, -78.75]**

	09/02/15 12:59 EST		3K	Thunderstorm Wind (EG 52 kt)
	09/02/15 12:59 EST		0	Source: Trained Spotter

A tree and multiple power lines were reported down in the 1500 block of Frederick St, resulting in the closure of the road.

**Combination of surface trough and passing shortwave aloft provided the forcing to trigger scattered convection, with isolated severe over Maryland. Shear was minimal but MUCAPE values were analyzed to be around 2000 J/kg at the time of initiation.**

**ALLEGANY COUNTY --- 2.1 S PLEASANT VLY [39.67, -78.63]**

	09/04/15 13:38 EST		0	Thunderstorm Wind (EG 52 kt)
	09/04/15 13:38 EST		0	Source: Public

A limb, 5 inches in diameter, was reported down on Breakneck Rd.

**ALLEGANY COUNTY --- 1.5 NNE RIDGELEY [39.65, -78.64]**

	09/04/15 13:41 EST		0	Hail (1.00 in)
	09/04/15 13:41 EST		0	Source: Public

**WASHINGTON COUNTY --- 0.2 SE HANCOCK [39.70, -78.18], 0.1 WSW HANCOCK [39.70, -78.18]**

	09/04/15 21:20 EST		3K	Thunderstorm Wind (EG 61 kt)
	09/04/15 21:21 EST		0	Source: Public

Numerous trees and powerlines were reported down along a track from the intersection of Main Street and Church Street to Main Street and Pennsylvania Ave.

**Showers and thunderstorms were triggered along a nearly stalled back door cold front. Temperatures pushed well into the 80s, with even some 90s, allowing for MLCAPE values of around 2000 J/kg.**

**ANNE ARUNDEL COUNTY --- 0.7 SSW WARDOUR [38.99, -76.51], 0.5 SW NAVAL ACADEMY [38.98, -76.49], 0.1 NE NAVAL ACADEMY [38.98, -76.48], 0.5 S WARDOUR [38.99, -76.50]**

	09/10/15 13:54 EST		2K	Flash Flood (due to Heavy Rain)
	09/10/15 17:15 EST		0	Source: Broadcast Media

Over three inches of rain fell across the city of Annapolis. Multiple reports of flooding were reported in the city of Annapolis including, King George Street was closed at the College Creek Bridge, Taylor Avenue was closed near Herbert Sachs Boulevard, Hudson Street was closed at West Street. Flooding was also reported at Ridgely Avenue near Melvin Avenue, on Dock Street and on Compromise Street. Flood waters also poured into the bottom floor of Rickover Hall at the U.S. Naval Academy.

**An upper level disturbance moved across the Mid-Atlantic. Showers formed in a very moist atmosphere that led to heavy rainfall mainly across the Interstate 95 corridor. Flooding was reported in Baltimore and Anne Arundel Counties including the City of Annapolis.**

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

	09/26/15 21:20 EST		0	Coastal Flood
	09/27/15 15:27 EST		0	

**Strong and persistent northeasterly flow lead to increased anomalies, between 1 and 2 foot above normal. This led to an extended period of minor flood levels being reached, with moderate thresholds being reached briefly during two subsequent high tides.**

**FREDERICK COUNTY --- 0.7 W FT DETRICK [39.43, -77.41], 0.6 W FREDERICK [39.42, -77.43], 1.1 SW FREDERICK [39.41, -77.43], 1.3 S FREDERICK [39.40, -77.42], 1.4 WNW GROVE [39.40, -77.40], 0.8 WSW FREDERICK ARPT [39.41, -77.39], 0.4 ESE FT DETRICK [39.43, -77.39], 0.4 NNW FT DETRICK [39.43, -77.40]**

	09/29/15 20:00 EST		0	Flash Flood (due to Heavy Rain)
	09/29/15 22:35 EST		0	Source: Broadcast Media

Multiple reports of flooding in Frederick Maryland. These reports include road closures at the 500 block of West Patrick Street, Market Street at South Street, Stauffer Road at Israel Creek and English Muffin Way at Lime Kiln Way. Also, flooding was reported at Frederick High School, Lincoln Elementary School and Thomas Johnson High School.

## Storm Data and Unusual Weather Phenomena - September 2015

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>PRINCE GEORGE'S COUNTY --- LEELAND [38.87, -76.75], 0.4 E LEELAND [38.87, -76.74], 0.6 SSE LEELAND [38.86, -76.75], 0.4 S LEELAND [38.86, -76.75]</b>	09/29/15 22:29 EST		0	Flash Flood (due to Heavy Rain)
	09/30/15 00:06 EST		0	Source: River/Stream Gage

The stream gauge on Collington Branch at Leeland Road reached flood stage of 12 feet. It peaked at 13.04 feet on 9/29 at 23:00 EST.

<b>FREDERICK COUNTY --- 0.4 NW FREDERICK [39.42, -77.42], 0.6 SW FREDERICK [39.41, -77.43], 1.2 S FREDERICK [39.40, -77.42], 1.2 WNW GROVE [39.41, -77.40], 0.6 WSW FREDERICK ARPT [39.42, -77.39], 0.5 N FT DETRICK [39.44, -77.40]</b>	09/29/15 22:35 EST		20K	Flood (due to Heavy Rain)
	09/30/15 09:00 EST		0	Source: Broadcast Media

Multiple reports of flooding continued overnight in Frederick Maryland. These reports include road closures at Stauffer Road at Israel Creek and English Muffin Way at Lime Kiln Way. Also, flooding continued at Frederick High School, Lincoln Elementary School and Thomas Johnson High School.

<b>BALTIMORE COUNTY --- 2.0 WSW BUTLER [39.52, -76.77], 2.3 W BUTLER [39.52, -76.77], 2.5 WSW BUTLER [39.52, -76.78], 2.3 WSW BUTLER [39.52, -76.77], 2.1 WSW BUTLER [39.52, -76.77]</b>	09/30/15 01:09 EST		0	Flash Flood (due to Heavy Rain)
	09/30/15 01:18 EST		0	Source: River/Stream Gage

The stream gauge on Piney Run at Dover reached a flood stage of 8.5 feet. It peaked at 8.60 feet at 0115 EST. Agricultural fields began to flood.

<b>BALTIMORE COUNTY --- 0.6 NNE COCKEYSVILLE [39.49, -76.64], 0.7 NNE COCKEYSVILLE [39.49, -76.64], 0.4 NNE COCKEYSVILLE [39.49, -76.65], 0.4 NE COCKEYSVILLE [39.48, -76.65], 0.5 NE COCKEYSVILLE [39.49, -76.64]</b>	09/30/15 01:37 EST		0	Flood (due to Heavy Rain)
	09/30/15 02:18 EST		0	Source: River/Stream Gage

The stream gauge on Beaverdam Run at Cockeysville reached a flood stage of 9 feet. It peaked at 9.11 feet at 0155 EST. Beaver Run Lane began to flood and water surrounded nearby buildings.

<b>BALTIMORE COUNTY --- 0.7 N OREGON [39.51, -76.68], 0.8 NNE OREGON [39.51, -76.68], 1.1 NNE OREGON [39.52, -76.68], 1.1 N OREGON [39.52, -76.68]</b>	09/30/15 07:43 EST		0	Flood (due to Heavy Rain)
	09/30/15 10:02 EST		0	Source: River/Stream Gage

The stream gauge on Western Run at Western Run reached flood stage of 8 feet. It peaked at 9.18 feet at 04:45 EST. Pastureland near the gauge began to flood and water began to cover Western Run Road.

**Heavy rain event as low pressure moved through the Mid-Atlantic ahead of a slow moving cold front. Southerly flow ahead of the low pressure tapped into a moisture rich atmosphere over the Gulf of Mexico. While thunderstorms were isolated due to weaker shear and instability, the heaviest of the precipitation was able to bring down gusty winds from aloft. This also led to flooding across the region.**

<b>PRINCE GEORGE'S COUNTY --- 0.6 ESE LAUREL [39.10, -76.84], 0.6 N LAUREL [39.11, -76.85]</b>	09/29/15 21:02 EST		0	Tornado (EF0, L: 1.05 mi , W: 75 yd)
	09/29/15 21:05 EST		0	Source: NWS Storm Survey

The National Weather Service in Baltimore MD/Washington DC has confirmed a tornado near Laurel and Scaggsville in Prince Georges and Howard counties in Maryland on September 29 2015.

The National Weather Service in Baltimore MD/Washington DC has confirmed a tornado rated EF0 produced scattered damage along a path extending from Laurel, MD in northern Prince Georges County to just east of Scaggsville in southern Howard County.

Based on information obtained from a ground survey conducted by a member of the National Weather Service of storm damage in southern Howard County and a detailed damage report from the Director of Public Works for the City of Laurel , it was determined that an EF0 tornado produced intermittent damage along a 4 mile path extending from just southeast of Laurel, MD to a point about 1 mile east of Scaggsville, MD.

The tornado first produced damage shortly after 10pm Tuesday evening in Laurel, MD. It damaged the facade of a commercial building near the intersection of Fort Meade Rd and Maryland Route 197. It then moved northwest and into downtown Laurel causing multiple tree damage, along with damage to several roofs. A portion of one home had a small part of its roof peeled back and several commercial buildings lost roof material . Damage in Laurel was limited to a several block area bounded by North Second Street, Fetty Alley, Avondale St and the Little Patuxent River. The tornado then crossed the Little Patuxent River into Howard County.

Based upon this ground survey along with analysis of available NWS and FAA radar data and interviews with persons along the path , the NWS in Sterling confirms an EF0 tornado occurred.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>HOWARD COUNTY --- 1.8 SW SAVAGE [39.11, -76.85], 1.0 E SCAGGSVILLE [39.15, -76.88]</b>				
	09/29/15 21:05 EST		0	Tornado (EF0, L: 3.35 mi , W: 75 yd)
	09/29/15 21:13 EST		0	Source: NWS Storm Survey
<p>The National Weather Service in Baltimore MD/Washington DC has confirmed a tornado near Laurel and Scaggsville in Prince Georges and Howard counties in Maryland on September 29 2015.</p> <p>The National Weather Service in Baltimore MD/Washington DC has confirmed a tornado rated EF0 produced scattered damage along a path extending from Laurel, MD in northern Prince Georges County to just east of Scaggsville in southern Howard County.</p> <p>Based on information obtained from a ground survey conducted by a member of the National Weather Service of storm damage in southern Howard County and a detailed damage report from the Director of Public Works for the City of Laurel , it was determined that an EF0 tornado produced intermittent damage along a 4 mile path extending from just southeast of Laurel, MD to a point about 1 mile east of Scaggsville, MD.</p> <p>After crossing the Little Patuxent River into Howard County, the tornado produced little damage and may have lifted briefly as it moved parallel to Route 216. Then after crossing Interstate 95, the tornado produced tree damage along a narrow path that started near the entrance of the High Ridge Substation and then downed several trees as it crossed into a subdivision west of Leishear Road just east of Hammond Middle School. The tornado lifted near Graeoch Rd and Helmart Rd after producing minor tree damage.</p> <p>Based upon this ground survey along with analysis of available NWS and FAA radar data and interviews with persons along the path , the NWS in Sterling confirms an EF0 tornado occurred.</p>				
<b>BALTIMORE COUNTY --- 1.3 ESE ECCLESTON [39.39, -76.70]</b>				
	09/29/15 22:30 EST		1K	Thunderstorm Wind (EG 52 kt)
	09/29/15 22:30 EST		0	Source: Public
Five large pine trees were reported down.				
<b>HARFORD COUNTY --- 1.3 WSW PLEASANTVILLE [39.56, -76.45]</b>				
	09/29/15 23:13 EST		2K	Thunderstorm Wind (EG 52 kt)
	09/29/15 23:13 EST		0	Source: 911 Call Center
Multiple large trees were reported down throughout the county.				
<p><b>Heavy rain event as low pressure moved through the Mid-Atlantic ahead of a slow moving cold front. Southerly flow ahead of the low pressure tapped into a moisture rich atmosphere over the Gulf of Mexico. While thunderstorms were isolated due to weaker shear and instability, the heaviest of the precipitation was able to bring down gusty winds from aloft.</b></p>				
<b>VIRGINIA, North</b>				
<b>FREDERICK COUNTY --- 1.5 NNW GRIMES [39.30, -78.14]</b>				
	09/02/15 13:58 EST		0	Hail (1.25 in)
	09/02/15 13:58 EST		0	Source: Public
<b>ROCKINGHAM COUNTY --- 1.3 ENE CRIDERS [38.76, -78.98]</b>				
	09/02/15 14:10 EST		0	Hail (1.00 in)
	09/02/15 14:10 EST		0	Source: Public
<b>RAPPAHANNOCK COUNTY --- 2.3 NNE PEOLA MILLS [38.56, -78.25]</b>				
	09/02/15 14:22 EST		0	Hail (1.00 in)
	09/02/15 14:22 EST		0	Source: Public
<b>SHENANDOAH COUNTY --- 2.1 SE LIBERTY FURNACE [38.86, -78.67]</b>				
	09/02/15 14:30 EST		0	Hail (1.00 in)
	09/02/15 14:30 EST		0	Source: Public
<b>SHENANDOAH COUNTY --- 1.8 SE JEROME [38.85, -78.70]</b>				

## Storm Data and Unusual Weather Phenomena - September 2015

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	09/02/15 14:32 EST		1K	Thunderstorm Wind (EG 52 kt)
	09/02/15 14:32 EST		0	Source: Public
A large cedar tree was reported down near Charlotte Lane.				
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<b>MADISON COUNTY --- 0.5 E PEOLA MILLS [38.53, -78.26]</b>				
	09/02/15 14:42 EST		1K	Thunderstorm Wind (EG 52 kt)
	09/02/15 14:42 EST		0	Source: Public
Several tree limbs were snapped near the intersection of Church Hill Rd and Route 231. The limbs were between 4 and 5 inches in diameter.				
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<b>MADISON COUNTY --- 0.9 SE PEOLA MILLS [38.52, -78.26]</b>				
	09/02/15 14:43 EST		0	Hail (1.00 in)
	09/02/15 14:43 EST		0	Source: Public
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<b>MADISON COUNTY --- 0.7 N SYRIA [38.49, -78.33]</b>				
	09/02/15 14:57 EST		1K	Thunderstorm Wind (EG 52 kt)
	09/02/15 14:57 EST		0	Source: Public
Several tree limbs were down in the road near Graves Mountain Lodge.				
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<b>WAYNESBORO (C) COUNTY --- 1.3 WSW WAYNESBORO [38.06, -78.90]</b>				
	09/02/15 15:30 EST		4K	Thunderstorm Wind (EG 52 kt)
	09/02/15 15:30 EST		0	Source: Newspaper
A large tree was reported down on a vehicle. Another large tree was reported down near the vehicle.				
<b>Combination of surface trough and passing shortwave aloft provided the forcing to trigger scattered convection. Shear was minimal but MUCAPE values were analyzed to be around 2000 J/kg at the time of initiation.</b>				
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<b>AUGUSTA COUNTY --- 3.0 SW CRAIGSVILLE [38.05, -79.42]</b>				
	09/04/15 13:50 EST		0	Hail (1.00 in)
	09/04/15 13:50 EST		0	Source: Public
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<b>FAUQUIER COUNTY --- 2.1 SE AUBURN [38.68, -77.67]</b>				
	09/04/15 13:55 EST		2K	Thunderstorm Wind (EG 52 kt)
	09/04/15 13:55 EST		0	Source: 911 Call Center
Several trees were reported down along Old Dumfries Rd.				
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<b>PRINCE WILLIAM COUNTY --- 1.8 WNW BRISTOW [38.73, -77.56]</b>				
	09/04/15 14:18 EST		1K	Thunderstorm Wind (EG 52 kt)
	09/04/15 14:18 EST		0	Source: NWS Employee
Several trees and tree limbs were snapped and reported down at the intersection of Vint Hill Rd and Aqua View Court.				
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<b>FAUQUIER COUNTY --- 1.6 NNE CATLETT [38.67, -77.62]</b>				
	09/04/15 14:28 EST		2K	Thunderstorm Wind (EG 61 kt)
	09/04/15 14:28 EST		0	Source: 911 Call Center
Several trees were reported down along Dumfries Rd.				
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<b>CULPEPER COUNTY --- 1.5 SE CORDOVA [38.52, -78.01]</b>				
	09/04/15 15:06 EST		1K	Thunderstorm Wind (EG 52 kt)
	09/04/15 15:06 EST		0	Source: 911 Call Center
A tree was reported down on Eggbornsville Rd near Chesterfield Lane.				
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<b>CULPEPER COUNTY --- 1.5 SSW CORDOVA [38.51, -78.04]</b>				
	09/04/15 15:11 EST		1K	Thunderstorm Wind (EG 52 kt)
	09/04/15 15:11 EST		0	Source: 911 Call Center

## Storm Data and Unusual Weather Phenomena - September 2015

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A tree was reported down on Woodland Church Rd near Cherry Hill Rd.				
<b>ORANGE COUNTY --- 1.1 NE MADISON RUN [38.21, -78.11]</b>				
	09/04/15 15:40 EST		1K	Thunderstorm Wind (EG 52 kt)
	09/04/15 15:40 EST		0	Source: Trained Spotter
A tree was reported down near the intersection of Tomahawk Creek Rd and Old Gordonsville Rd.				
<b>Showers and thunderstorms were triggered along a nearly stalled back door cold front. Temperatures pushed well into the 80s, with even some 90s, allowing for MLCAPE values of around 2000 J/kg.</b>				
<b>NELSON COUNTY --- 0.9 NE OAK RIDGE [37.71, -78.87]</b>				
	09/09/15 18:30 EST		3K	Thunderstorm Wind (EG 52 kt)
	09/09/15 18:30 EST		0	Source: Public
Damage was reported at the Lockn Music Festival. Report included damage to the stage and campgrounds. The portable bathrooms were knocked over, with multiple trees reported down.				
<b>Lee trough formed out ahead of an approaching cold front, acting as a surface trigger for scattered convection. Lack of shear led to the storms being pulse-like in nature, based upon increased instability values.</b>				
<b>ALBEMARLE COUNTY --- 2.0 E FARMINGTON [38.05, -78.51], 1.9 E FARMINGTON [38.05, -78.51], 2.0 E FARMINGTON [38.04, -78.51], 2.0 E FARMINGTON [38.04, -78.51]</b>				
	09/10/15 18:12 EST		0	Flash Flood (due to Heavy Rain)
	09/10/15 20:30 EST		0	Source: Public
Several vehicles were stranded in high water under a railroad overpass on Old Ivy Road.				
<b>An upper level disturbance moved across the Mid-Atlantic. Showers formed in a very moist atmosphere across the region. Heavy rainfall produced flooding across the Interstate 95 corridor in the afternoon and heavy rain across Central Virginia in the evening.</b>				
<b>(VA-Z026) ROCKINGHAM, (VA-Z027) SHENANDOAH, (VA-Z029) PAGE, (VA-Z030) WARREN</b>				
	09/22/15 23:35 EST		0	Dense Fog
	09/23/15 08:00 EST		0	
<b>High pressure sprawled over the Mid-Atlantic resulted in light winds. This combined with mostly clear skies led to patchy dense fog formation.</b>				
<b>(VA-Z029) PAGE</b>				
	09/24/15 03:00 EST		0	Dense Fog
	09/24/15 07:00 EST		0	
<b>High pressure sprawled over the Mid-Atlantic resulted in light winds. This combined with mostly clear skies led to patchy dense fog formation.</b>				
<b>AUGUSTA COUNTY --- 0.2 SE FISHERSVILLE [38.10, -78.97], 0.2 SE FISHERSVILLE [38.10, -78.97], 1.2 WSW FISHERSVILLE [38.09, -78.99], 1.1 SSW FISHERSVILLE [38.09, -78.98]</b>				
	09/29/15 15:00 EST		0	Flash Flood (due to Heavy Rain)
	09/29/15 17:45 EST		0	Source: Broadcast Media
Portions of Goose Creek Road near the hospital were closed and U.S. 250 was closed west of Tinkling Spring Road due to flooding.				
<b>AUGUSTA COUNTY --- 0.8 WSW BRAND [38.11, -79.01], 0.8 WSW BRAND [38.11, -79.01], 0.9 SW BRAND [38.11, -79.01], 0.9 SW BRAND [38.11, -79.01]</b>				
	09/29/15 15:00 EST		0	Flash Flood (due to Heavy Rain)
	09/29/15 17:45 EST		0	Source: Broadcast Media
Jericho Road in Fishersville was closed due to flooding.				
<b>STAUNTON (C) COUNTY --- 11.2 WNW WAYNESBORO [38.15, -79.06], 11.4 WNW WAYNESBORO [38.15, -79.06], 11.3 WNW WAYNESBORO [38.15, -79.06], 11.2 WNW WAYNESBORO [38.15, -79.06]</b>				
	09/29/15 15:00 EST		0	Flash Flood (due to Heavy Rain)
	09/29/15 17:45 EST		0	Source: Broadcast Media
The entrance to the physical plant offices for the Virginia School for the Deaf and the Blind, on New Hope Road, were closed due to flooding.				

## Storm Data and Unusual Weather Phenomena - September 2015

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>WAYNESBORO (C) COUNTY --- 1.1 ENE WAYNESBORO [38.07, -78.86], 1.1 ENE WAYNESBORO [38.08, -78.86], 1.0 ENE WAYNESBORO [38.07, -78.86], 1.1 ENE WAYNESBORO [38.07, -78.86]</b>				
	09/29/15 15:00 EST		0	Flash Flood (due to Heavy Rain)
	09/29/15 17:45 EST		0	Source: Broadcast Media
Kirby Avenue and A Street were closed due to flooding.				
<b>HARRISONBURG (C) COUNTY --- 0.7 SW HARRISONBURG [38.44, -78.88], 1.4 S HARRISONBURG [38.43, -78.87], 1.6 SSE HARRISONBURG [38.43, -78.86], 0.7 SE HARRISONBURG [38.44, -78.86]</b>				
	09/29/15 16:00 EST		0	Flash Flood (due to Heavy Rain)
	09/29/15 18:30 EST		0	Source: Broadcast Media
Multiple reports of flooding were reported on James Madison University in the City of Harrisonburg which include Edith J. Carrier Arboretum, Godwin Transit Center, Duke Dog Alley, Bluestone and Main Streets and Bridgeforth Stadium.				
<b>ALBEMARLE COUNTY --- 1.4 E FARMINGTON [38.05, -78.53], 1.3 E FARMINGTON [38.05, -78.53], 1.3 E FARMINGTON [38.05, -78.53], 1.3 E FARMINGTON [38.05, -78.53]</b>				
	09/29/15 16:15 EST		0	Flash Flood (due to Heavy Rain)
	09/29/15 18:00 EST		0	Source: 911 Call Center
Old Ivy and Route 846 were flooded at railroad underpass.				
<b>MADISON COUNTY --- 2.3 SSW BRIGHTWOOD [38.39, -78.21], 2.5 SSW BRIGHTWOOD [38.39, -78.21], 2.6 W BRIGHTWOOD [38.41, -78.25], 2.4 W BRIGHTWOOD [38.42, -78.24], 1.8 WSW BRIGHTWOOD [38.41, -78.23], 1.6 SW BRIGHTWOOD [38.40, -78.22]</b>				
	09/29/15 19:31 EST		0	Flood (due to Heavy Rain)
	09/30/15 00:38 EST		0	Source: River/Stream Gage
The stream gauge on Robinson River at Zeus reached a flood stage of 9 feet. It peaked at 14 feet at 21:47 EST. Numerous roads and structures near the river were flooded.				
<b>LOUDOUN COUNTY --- 0.8 NNE CLARKES GAP [39.14, -77.59], 1.3 NNE LEESBURG [39.14, -77.54], 0.9 ESE LEESBURG [39.11, -77.54], 1.1 N LEESBURG MUNI [39.10, -77.55], 1.8 SSE CLARKES GAP [39.10, -77.59]</b>				
	09/29/15 20:02 EST		0	Flash Flood (due to Heavy Rain)
	09/29/15 21:20 EST		0	Source: Broadcast Media
Multiple road closures occurred in Leesburg including westbound and eastbound of route 15 bypass and portions of route 7 eastbound at route 9.				
<b>RAPPAHANNOCK COUNTY --- 1.6 E LAUREL MILLS [38.65, -78.07], 1.5 NW VIEWTOWN [38.65, -78.07], 1.0 ESE LAUREL MILLS [38.65, -78.08], 1.0 E LAUREL MILLS [38.65, -78.08]</b>				
	09/29/15 21:14 EST		0	Flood (due to Heavy Rain)
	09/29/15 22:00 EST		0	Source: River/Stream Gage
The stream gauge on Battle Run at Laurel Mills reached a flood stage of 11 feet. It peaked at 11.74 feet at 22:00 EST. Water covered portions of Laurel Mills Road and Red Hill Lane.				
<b>LOUDOUN COUNTY --- 1.3 WNW WATERFORD [39.19, -77.62], 1.2 NW WATERFORD [39.19, -77.61], 0.7 NW WATERFORD [39.19, -77.61], 0.9 WNW WATERFORD [39.18, -77.62]</b>				
	09/29/15 21:52 EST		0	Flood (due to Heavy Rain)
	09/30/15 04:57 EST		0	Source: River/Stream Gage
The stream gauge on South Fork Catoctin Creek near Waterford reached a flood stage of 8 feet. It peaked at 10.07 feet at 01:45 EST. Portions of route 662 began to flood near the creek and water approached a building on Main Street in Waterford .				
<b>LOUDOUN COUNTY --- 2.2 S STUMPTOWN [39.17, -77.54], 1.9 SSE STUMPTOWN [39.17, -77.54], 2.0 SSE STUMPTOWN [39.17, -77.54], 2.3 SSE STUMPTOWN [39.17, -77.54]</b>				
	09/29/15 22:02 EST		0	Flash Flood (due to Heavy Rain)
	09/30/15 22:30 EST		0	Source: River/Stream Gage
The stream gauge on Limestone Branch near Leesburg reached a flood stage of 7 feet. It peaked at 9.13 feet at 22:30 EST. Greenfield Farm Lane and another access road began to flood and field flooding near the stream became widespread. A home near route 15 along the stream began to flood.				



## Storm Data and Unusual Weather Phenomena - September 2015

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>LOUDOUN COUNTY --- 2.4 SSE STUMPTOWN [39.17, -77.54], 2.3 SSE STUMPTOWN [39.17, -77.54], 2.1 SSE STUMPTOWN [39.17, -77.54], 2.1 SSE STUMPTOWN [39.17, -77.54]</b>				
	09/29/15 22:30 EST		0	Flood (due to Heavy Rain)
	09/30/15 00:17 EST		0	Source: River/Stream Gage

The stream gauge on Limestone Branch near Leesburg reached a flood stage of 7 feet. It peaked at 9.13 feet at 22:30 EST. Greenfield Farm Lane and another access road began to flood and field flooding near the stream became widespread. A home near route 15 along the stream began to flood.

<b>MADISON COUNTY --- 2.9 E LOCUST DALE [38.33, -78.08], 2.0 ENE LOCUST DALE [38.34, -78.10], 1.3 ENE LOCUST DALE [38.34, -78.11], 2.4 E LOCUST DALE [38.32, -78.09]</b>				
	09/29/15 22:42 EST		0	Flood (due to Heavy Rain)
	09/30/15 05:43 EST		0	Source: River/Stream Gage

The stream gauge on Robinson River at Locust Dale reached a flood stage of 11 feet. It peaked at 14.59 feet at 02:45 EST. Multiple spots on Route 721 were flooded, along with other nearby low lying land. Access may have been affected for residents.

<b>LOUDOUN COUNTY --- 2.8 E NORTH FORK [39.07, -77.68], 2.5 E NORTH FORK [39.07, -77.68], 2.6 NNE MOUNTVILLE [39.06, -77.68], 2.8 NNE MOUNTVILLE [39.06, -77.67]</b>				
	09/29/15 22:46 EST		0	Flood (due to Heavy Rain)
	09/30/15 00:52 EST		0	Source: River/Stream Gage

The stream gauge on North fork Goose Creek at Lincoln reached a flood stage of 10 feet. It peaked at 10.96 feet at 22:30 EST. Water overflowed the banks downstream of the gauge.

<b>CULPEPER COUNTY --- 1.2 NNE RIXEYVILLE [38.60, -77.96], 1.3 N RIXEYVILLE [38.60, -77.97], 0.9 ESE MONUMENT MILLS [38.59, -77.99], 1.0 NW RIXEYVILLE [38.59, -77.98], 0.8 N RIXEYVILLE [38.59, -77.97]</b>				
	09/30/15 00:18 EST		0	Flood (due to Heavy Rain)
	09/30/15 07:23 EST		0	Source: River/Stream Gage

The stream gauge on Hazel River at Rixeyville reached a flood stage of 16 feet. It peaked at 18.06 feet at 04:45 EST. Low lying agricultural land near the river began to flood.

<b>LOUDOUN COUNTY --- 2.1 NW MIDDLEBURG [38.99, -77.80], 1.7 NW MIDDLEBURG [38.99, -77.79], 1.6 NW MIDDLEBURG [38.99, -77.79], 2.0 WNW MIDDLEBURG [38.99, -77.80]</b>				
	09/30/15 00:21 EST		0	Flood (due to Heavy Rain)
	09/30/15 04:49 EST		0	Source: River/Stream Gage

The stream gauge on Goose Creek at Middleburg reached a flood stage of 13 feet. It peaked at 14.46 feet at 02:30 EST. Notre Dame Lane began to flood at the creek.

**Heavy rain event as low pressure moved through the Mid-Atlantic ahead of a slow moving cold front. Southerly flow ahead of the low pressure tapped into a moisture rich atmosphere over the Gulf of Mexico. While thunderstorms were isolated due to weaker shear and instability, the heaviest of the precipitation was able to bring down gusty winds from aloft. This also led to flooding across the region.**

<b>LOUDOUN COUNTY --- 0.9 SW LEESBURG [39.11, -77.56]</b>				
	09/29/15 20:00 EST		1K	Thunderstorm Wind (EG 52 kt)
	09/29/15 20:00 EST		0	Source: Emergency Manager

Multiple trees were reported down, with two HVAC until dislodged in an area of East Market St and Catocin Circle.

**Heavy rain event as low pressure moved through the Mid-Atlantic ahead of a slow moving cold front. Southerly flow ahead of the low pressure tapped into a moisture rich atmosphere over the Gulf of Mexico. While thunderstorms were isolated due to weaker shear and instability, the heaviest of the precipitation was able to bring down gusty winds from aloft.**

### WEST VIRGINIA, East

<b>HAMPSHIRE COUNTY --- 1.1 E AUGUSTA [39.30, -78.63]</b>				
	09/04/15 15:40 EST		1K	Thunderstorm Wind (EG 52 kt)
	09/04/15 15:40 EST		0	Source: Trained Spotter

A tree was reported down on a power line near the intersection of Northwestern Pike and Sol Shanholtz Rd.

## Storm Data and Unusual Weather Phenomena - September 2015

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>MINERAL COUNTY --- 1.3 ESE SHAW [39.41, -79.11]</b>				
	09/04/15 16:09 EST		2K	Thunderstorm Wind (EG 61 kt)
	09/04/15 16:09 EST		0	Source: 911 Call Center
Several trees were reported down and blocking the entrance to Jennings Randolph Lake Campground.				
Showers and thunderstorms were triggered along a nearly stalled back door cold front. Temperatures pushed well into the 80s, with even some 90s, allowing for MLCAPE values of around 2000 J/kg.				
<b>(WV-Z502) EASTERN GRANT, (WV-Z504) EASTERN MINERAL</b>				
	09/24/15 04:30 EST		0	Dense Fog
	09/24/15 09:35 EST		0	

High pressure sprawled over the Mid-Atlantic resulted in light winds. This combined with mostly clear skies led to patchy dense fog formation.