

## Storm Data and Unusual Weather Phenomena - March 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>ATLANTIC NORTH</b>				
<b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 18.2 WNW PINEY POINT [38.25, -76.83]</b>				
	03/06/11 17:45 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	03/06/11 17:45 EST		0	Source: Mesonet
A wind gust in excess of 30 knots was reported at Cobb Point.				
<b>CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- 6.3 NNW MID BAY BUOY [38.56, -76.41]</b>				
	03/06/11 19:00 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	03/06/11 19:00 EST		0	Source: Buoy
A wind gust of 34 knots was reported at Gooses Reef.				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- THOMAS POINT LIGHT [38.90, -76.44]</b>				
	03/06/11 19:00 EST		0	Marine Thunderstorm Wind (MG 37 kt)
	03/06/11 19:00 EST		0	Source: C-MAN Station
A wind gust of 37 knots was reported at Thomas Point Lighthouse.				
<b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 18.2 WNW PINEY POINT [38.25, -76.83]</b>				
	03/06/11 20:15 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	03/06/11 20:15 EST		0	Source: Mesonet
A wind gust of 35 knots was measured at Cobb Point.				
<b>Low pressure tracked up the Mid-Atlantic Coast spreading showers across the waters on the 6th. Gusty winds from aloft were able to mix down in the heavier showers during the evening hours.</b>				
<b>TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 0.7 E (DCA)REAGAN NATIONAL AIRPORT [38.85, -77.03]</b>				
	03/10/11 19:57 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	03/10/11 19:57 EST		0	Source: ASOS
A wind gust of 35 knots was reported at Reagan National Airport.				
<b>A strong cold front slowly passed through the waters on the 10th. Plenty of moisture from the Gulf of Mexico and Atlantic Ocean were drawn into the region ahead of the front. A warm and moist southerly flow ahead of the front caused limited instability to develop. Strong lift from the front combined with the instability to trigger showers and thunderstorms. An isolated thunderstorm did produce gusty winds over the upper Tidal Potomac.</b>				
<b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- PINEY POINT [38.13, -76.53]</b>				
	03/16/11 01:45 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	03/16/11 01:45 EST		0	Source: Mesonet
A wind gust of 34 knots was reported at Point Lookout.				
<b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 0.3 NE POTOMAC BUOY [38.03, -76.34]</b>				
	03/16/11 01:50 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	03/16/11 01:50 EST		0	Source: Buoy
A wind gust of 35 knots was reported at Potomac Buoy.				
<b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.1 NE BISHOPS HEAD [38.22, -76.04]</b>				
	03/16/11 02:16 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	03/16/11 02:18 EST		0	Source: Mesonet
Wind gusts up to 36 knots were reported at Bishops Head.				
<b>A cold front passed through the waters during the early morning hours of the 16th. Showers associated with the front were able to mix down gusty winds from aloft.</b>				
<b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.4 NE QUANTICO [38.50, -77.31]</b>				

## Storm Data and Unusual Weather Phenomena - March 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/21/11 18:28 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	03/21/11 18:28 EST		0	Source: ASOS

A wind gust in excess of 30 knots was reported at Quantico.

TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.2 W POTOMAC LIGHT [38.34, -76.99]				
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/21/11 18:54 EST		0	Marine Thunderstorm Wind (MG 38 kt)
	03/21/11 18:58 EST		0	Source: Mesonet

Wind gusts up to 38 knots were reported at the Potomac Lighthouse.

**A warm front passed through the waters on the 21st. Limited instability developed behind the front due to a southwest flow. An upper-level disturbance tracked through the area during this time to combine with the instability, bringing a few showers and thunderstorms. A couple thunderstorms did produce gusty winds.**

TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.4 NE QUANTICO [38.50, -77.31]				
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/23/11 19:55 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	03/23/11 19:55 EST		0	Source: ASOS

A wind gust of 36 knots as reported at Quantico.

TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.2 ENE BABAR POINT [38.31, -77.03]				
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/23/11 20:10 EST		0	Marine Thunderstorm Wind (MG 37 kt)
	03/23/11 20:20 EST		0	Source: Mesonet

Wind gusts up to 37 knots were reported at Baber Point.

TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.2 W POTOMAC LIGHT [38.34, -76.99]				
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/23/11 20:19 EST		0	Marine Thunderstorm Wind (MG 37 kt)
	03/23/11 20:19 EST		0	Source: Mesonet

A wind gust of 37 knots was reported at the Potomac Lighthouse.

TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 18.2 WNW PINEY POINT [38.25, -76.83]				
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/23/11 20:20 EST		0	Marine Thunderstorm Wind (MG 39 kt)
	03/23/11 20:25 EST		0	Source: Mesonet

Wind gusts up to 39 knots were reported at Cobb Point.

CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- COVE POINT [38.43, -76.39]				
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/23/11 20:42 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	03/23/11 20:54 EST		0	Source: Buoy

Wind gusts in excess of 30 knots were reported at Cove Point.

TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- PINEY POINT [38.13, -76.53]				
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/23/11 20:48 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	03/23/11 20:48 EST		0	Source: Buoy

A wind gust in excess of 30 knots was reported at Piney Point.

PATUXENT RIVER TO BROOMES ISLAND MD COUNTY --- 0.2 SSW CHESAPEAKE BIOLOGICAL LABORATORY [38.32, -76.45]				
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/23/11 20:54 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	03/23/11 20:54 EST		0	Source: Buoy

A wind gust in excess of 30 knots was reported at Solomons Island.

CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- 0.8 SSW PATUXENT RIVER ASOS [38.28, -76.41]				
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/23/11 20:55 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	03/23/11 20:55 EST		0	Source: ASOS

A wind gust in excess of 30 knots was reported at Patuxent River.

## Storm Data and Unusual Weather Phenomena - March 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 0.3 NE POTOMAC BUOY [38.03, -76.34]</b>				
	03/23/11 21:10 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	03/23/11 21:10 EST		0	Source: Buoy
A wind gust in excess of 30 knots was reported at the Potomac Buoy.				
A stationary boundary was located near the waters on the 23rd. An upper-level disturbance tracked through the area during this time, bringing showers and thunderstorms. There was enough instability near the boundary for heavier showers and isolated thunderstorms to produce gusty winds.				
<b>DISTRICT OF COLUMBIA</b>				
<b>(DC-Z001) DISTRICT OF COLUMBIA</b>				
	03/10/11 21:30 EST		0	Coastal Flood
	03/10/11 22:24 EST		0	
A strong pressure gradient between high pressure over the Atlantic Ocean and a cold front moving in from the Ohio Valley resulted in gusty southeast winds over the Tidal Potomac River and Chesapeake Bay. The strong onshore flow caused water levels to be elevated which led to coastal flooding along areas near the Tidal Potomac River.				
<b>(DC-Z001) DISTRICT OF COLUMBIA</b>				
	03/12/11 10:33 EST		0	Coastal Flood
	03/12/11 18:30 EST		0	
Heavy rainfall on March 10th caused elevated fresh water levels upstream along the Potomac River. A rush of freshwater from the Potomac River caused water levels to rise along the Tidal Potomac River in Washington DC on the 12th. The elevated water levels resulted in moderate coastal flooding near Wisconsin Avenue.				
<b>MARYLAND, Central</b>				
<b>(MD-Z003) WASHINGTON, (MD-Z501) EXTREME WESTERN ALLEGANY</b>				
	03/06/11 11:00 EST		0	Winter Weather
	03/07/11 01:00 EST		0	
Low pressure tracked up the Mid-Atlantic Coast spreading rain across most of Maryland on the 6th. As the low passed by to the east, colder air was drawn into the system causing rain to change to snow during the afternoon and evening hours over north-central and western Maryland. Snow ended early on the 7th. The heaviest snow amounts were over the higher elevations.				
<b>(MD-Z501) EXTREME WESTERN ALLEGANY</b>				
	03/09/11 09:00 EST		0	Winter Weather
	03/09/11 17:00 EST		0	
Low pressure tracked through the Midwest on the 9th. Plenty of moisture from the Atlantic Ocean was drawn into this system causing widespread precipitation across Maryland. Most of the precipitation fell in the form of rain, but there was enough cold air for a period of snow across western Maryland during the morning and afternoon hours of the 9th.				
<b>(MD-Z011) SOUTHERN BALTIMORE, (MD-Z014) ANNE ARUNDEL, (MD-Z017) ST. MARY'S, (MD-Z018) CALVERT</b>				
	03/10/11 17:30 EST		0	Coastal Flood
	03/11/11 01:00 EST		0	
A strong pressure gradient between high pressure over the Atlantic Ocean and a cold front moving in from the Ohio Valley resulted in gusty southeast winds over the Tidal Potomac River and Chesapeake Bay. The strong onshore flow caused water levels to be elevated which led to coastal flooding along areas near the western shore of the Chesapeake Bay and also near the Tidal Potomac River.				
<b>CHARLES COUNTY --- MASON SPGS [38.58, -77.12]</b>				
	03/10/11 19:06 EST		0	Thunderstorm Wind (EG 52 kt)
	03/10/11 19:06 EST		0	Source: Unknown

## Storm Data and Unusual Weather Phenomena - March 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A thunderstorm wind gust was estimated around 60 mph.

A strong cold front slowly passed through the area on the 10th. Plenty of moisture from the Gulf of Mexico and Atlantic Ocean were drawn into the region ahead of the front. A warm and moist southerly flow ahead of the front caused limited instability to develop. Strong lift from the front combined with the instability to trigger showers and thunderstorms.

Winds just a few thousand feet above the surface were quite strong. An isolated thunderstorm did transport these winds down to the surface over lower southern Maryland.

**FREDERICK COUNTY --- 2.2 NE MOTTERS [39.67, -77.30], 2.8 ENE MOTTERS [39.67, -77.28], 2.5 ENE MOTTERS [39.66, -77.28], 1.9 NE MOTTERS [39.67, -77.30]**

03/10/11 20:45 EST	0	Flash Flood (due to Heavy Rain)
03/10/11 21:00 EST	0	Source: Newspaper

Keysville Road was closed due to flash flooding between Four Points Bridge and Sixes Road.

**BALTIMORE CITY (C) COUNTY --- 1.0 NW MT ROYAL [39.33, -76.64], 1.1 NW MT ROYAL [39.33, -76.64], 1.1 NNW MT ROYAL [39.33, -76.64], 1.0 NW MT ROYAL [39.33, -76.64]**

03/10/11 22:00 EST	0	Flash Flood (due to Heavy Rain)
03/10/11 22:30 EST	0	Source: Broadcast Media

Both the Meadow Mill and Jones Falls parking lots were closed due to flash flooding.

Low pressure passed through the Great Lakes on the 10th. A strong cold front associated with this system slowly moved through Maryland during the afternoon and evening hours. A southeast wind between this system and high pressure over the Atlantic Ocean pumped in copious amounts of moisture across the region. The deep moisture combined with strong lift from the front and limited instability to trigger showers and thunderstorms. Some thunderstorms produced locally heavy amounts of rain in a short period of time which led to flash flooding.

**ALLEGANY COUNTY --- 0.5 NW DETMOLD [39.58, -78.99]**

03/23/11 17:30 EST	0	Hail (1.00 in)
03/23/11 17:30 EST	0	Source: Public

Quarter sized hail was reported near Lonaconing.

A stationary boundary was located over western Maryland on the 23rd. An upper-level disturbance tracked through the area during this time, bringing showers and thunderstorms. There was enough instability near the boundary for an isolated thunderstorm to produce large hail.

**(MD-Z016) CHARLES, (MD-Z017) ST. MARY'S, (MD-Z018) CALVERT**

03/27/11 03:00 EST	0	Winter Weather
03/27/11 10:00 EST	0	

A wave of low pressure quickly passed by to the south during the morning hours of the 27th. High pressure to the north supplied enough cold air to cause precipitation associated with the low to fall in the form of snow.

### VIRGINIA, North

**(VA-Z027) SHENANDOAH, (VA-Z028) FREDERICK, (VA-Z029) PAGE, (VA-Z030) WARREN, (VA-Z031) CLARKE, (VA-Z042) LOUDOUN, (VA-Z501) NORTHERN FAUQUIER**

03/06/11 16:00 EST	0	Winter Weather
03/07/11 01:00 EST	0	

Low pressure tracked up the Mid-Atlantic Coast spreading rain across northern and central Virginia on the 6th. As the low passed by to the east, colder air was drawn into the system causing rain to change to snow during the afternoon and evening hours over portions of the Potomac Highlands and Shenandoah Valley. Snow ended early on the 7th. The heaviest snow amounts were over the higher elevations.

**NELSON COUNTY --- 2.0 E TYE RIVER [37.65, -78.93], 2.5 SSE ARRINGTON [37.64, -78.91], 1.8 SE ARRINGTON [37.66, -78.90], 1.1 SSE ARRINGTON [37.67, -78.91]**

03/10/11 15:15 EST	0	Flash Flood (due to Heavy Rain)
03/10/11 17:00 EST	0	Source: Fire Department/Rescue

## Storm Data and Unusual Weather Phenomena - March 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
South Powells Island Road was closed due to high water.				
<b>CULPEPER COUNTY --- 1.7 SE NORMAN [38.50, -78.05], 1.7 SE NORMAN [38.50, -78.05], 1.7 SE NORMAN [38.50, -78.05], 1.6 SE NORMAN [38.50, -78.05]</b>				
	03/10/11 18:15 EST		0	Flash Flood (due to Heavy Rain)
	03/10/11 19:15 EST		0	Source: Fire Department/Rescue
Sperryville Pike at CL Jackson Drive was closed due to high water.				
<b>CULPEPER COUNTY --- 1.1 WNW JEFFERSONTON [38.64, -77.92], 0.8 NNW JEFFERSONTON [38.64, -77.91], 0.6 NW JEFFERSONTON [38.64, -77.91], 1.1 WNW JEFFERSONTON [38.64, -77.92]</b>				
	03/10/11 18:30 EST		0	Flash Flood (due to Heavy Rain)
	03/10/11 19:30 EST		0	Source: Trained Spotter
Flash flooding was reported at the intersection of 802 and 621.				
<b>GREENE COUNTY --- 1.5 W QUINQUE [38.25, -78.43], 1.4 W QUINQUE [38.25, -78.43], 1.2 W QUINQUE [38.25, -78.42], 1.3 W QUINQUE [38.25, -78.42]</b>				
	03/10/11 18:30 EST		0	Flash Flood (due to Heavy Rain)
	03/10/11 19:30 EST		0	Source: Trained Spotter
Flash flooding was reported on Lewis Drive.				
<b>FAUQUIER COUNTY --- 0.5 WSW MARSHALL [38.87, -77.86], 0.2 SW MARSHALL [38.87, -77.85], 0.3 SSW MARSHALL [38.87, -77.85], 0.5 SW MARSHALL [38.87, -77.86]</b>				
	03/10/11 18:45 EST		0	Flash Flood (due to Heavy Rain)
	03/10/11 20:30 EST		0	Source: Fire Department/Rescue
Flash flooding was reported at Main Street.				
<b>PRINCE WILLIAM COUNTY --- 0.4 WSW TRIANGLE [38.55, -77.34], 0.3 SW TRIANGLE [38.55, -77.33], 0.5 SW TRIANGLE [38.54, -77.34], 0.5 WSW TRIANGLE [38.55, -77.34]</b>				
	03/10/11 19:40 EST		0	Flash Flood (due to Heavy Rain)
	03/10/11 21:30 EST		0	Source: Department of Highways
The right turn lane from Jefferson Davis Road onto Joplin Highway was closed due to flash flooding.				
<b>PRINCE WILLIAM COUNTY --- 0.7 NW ADEN [38.66, -77.54], 0.6 WNW ADEN [38.65, -77.54], 0.4 NW ADEN [38.65, -77.54], 0.5 NNW ADEN [38.66, -77.53]</b>				
	03/10/11 19:40 EST		0	Flash Flood (due to Heavy Rain)
	03/10/11 21:30 EST		0	Source: Department of Highways
Aden Road at Fleetwood Drive was closed due to flash flooding.				
<b>PRINCE WILLIAM COUNTY --- 0.8 E DUMFRIES [38.57, -77.31], 0.9 ESE DUMFRIES [38.57, -77.31], 0.9 ESE DUMFRIES [38.57, -77.31], 0.8 ESE DUMFRIES [38.57, -77.32]</b>				
	03/10/11 19:40 EST		0	Flash Flood (due to Heavy Rain)
	03/10/11 21:30 EST		0	Source: Department of Highways
Colonial Point Road at Possum Point Road was closed due to flash flooding.				
<b>PRINCE WILLIAM COUNTY --- 1.5 ENE HICKORY GROVE [38.91, -77.61], 1.5 NE HICKORY GROVE [38.91, -77.61], 1.4 ENE HICKORY GROVE [38.91, -77.61], 1.5 ENE HICKORY GROVE [38.91, -77.61]</b>				
	03/10/11 19:40 EST		0	Flash Flood (due to Heavy Rain)
	03/10/11 21:30 EST		0	Source: Department of Highways
Little River Road near the Loudoun and Prince William County line was closed due to flash flooding.				
<b>FAIRFAX COUNTY --- 0.2 SE MERRIFIELD [38.87, -77.23], 0.6 SSE MERRIFIELD [38.86, -77.23], 0.8 SE MERRIFIELD [38.86, -77.22], 0.6 ESE MERRIFIELD [38.87, -77.22]</b>				
	03/10/11 21:00 EST		0	Flash Flood (due to Heavy Rain)
	03/10/11 21:30 EST		0	Source: Department of Highways

## Storm Data and Unusual Weather Phenomena - March 2011

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The interstate 495 entrance ramp from eastbound Route 50 was closed due to flash flooding.				
Low pressure passed through the Great Lakes on the 10th. A strong cold front associated with this system slowly moved through northern and central Virginia during the afternoon and evening hours. A southeast wind between this system and high pressure over the Atlantic Ocean pumped in copious amounts of moisture across the region. The deep moisture combined with strong lift from the front and limited instability to trigger showers and thunderstorms. Some thunderstorms produced locally heavy amounts of rain in a short period of time which led to flash flooding.				
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<b>ORANGE COUNTY --- 1.5 WNW DANTON [38.19, -77.94]</b>	03/10/11 17:36 EST		2K	Thunderstorm Wind (EG 56 kt)
	03/10/11 17:36 EST		0	Source: Fire Department/Rescue
Trees were down on Dueling Road near Taylor Highway.				
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<b>SPOTSYLVANIA COUNTY --- 1.0 ESE ALSOP [38.19, -77.63]</b>	03/10/11 18:00 EST		3K	Thunderstorm Wind (EG 56 kt)
	03/10/11 18:00 EST		0	Source: NWS Storm Survey
Multiple trees were down near Alsop.				
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<b>SPOTSYLVANIA COUNTY --- 1.8 ESE ALSOP [38.19, -77.62]</b>	03/10/11 18:00 EST		1K	Thunderstorm Wind (EG 56 kt)
	03/10/11 18:00 EST		0	Source: Fire Department/Rescue
A tree was down at Courthouse and Blockhouse Road.				
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<b>SPOTSYLVANIA COUNTY --- 1.0 N CHANCELLOR [38.28, -77.60]</b>	03/10/11 18:08 EST		2K	Thunderstorm Wind (EG 61 kt)
	03/10/11 18:08 EST		0	Source: Fire Department/Rescue
Power poles were snapped near Chancellor Road and Old Plank Road.				
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<b>FAUQUIER COUNTY --- 0.6 NE BEALETON [38.58, -77.76]</b>	03/10/11 18:15 EST		0	Thunderstorm Wind (EG 52 kt)
	03/10/11 18:15 EST		0	Source: Trained Spotter
A wooden fence six feet high was completely blown over. Aluminum patio furniture flew off the patio near Bealeton.				
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<b>FAUQUIER COUNTY --- 2.6 SW OPAL [38.59, -77.84]</b>	03/10/11 18:16 EST		1K	Thunderstorm Wind (EG 52 kt)
	03/10/11 18:16 EST		0	Source: Utility Company
A tree was down near Tackett Lane and St. Pauls Road.				
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<b>FAUQUIER COUNTY --- 0.6 NE BEALETON [38.58, -77.76], 1.6 NE MIDLAND [38.62, -77.70]</b>	03/10/11 18:17 EST		25K	Tornado (EF1, L: 4.41 mi , W: 75 yd)
	03/10/11 18:20 EST		0	Source: NWS Storm Survey
Multiple trees were down and a well constructed Barn was collapsed near the intersection of Route 28 and Old Carolina Road.				
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<b>FAUQUIER COUNTY --- 0.8 SSW MIDLAND [38.59, -77.73]</b>	03/10/11 18:18 EST		3K	Thunderstorm Wind (EG 56 kt)
	03/10/11 18:18 EST		0	Source: Utility Company
Three to four trees were down near Bealeton Road and Rogues Road.				
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<b>PRINCE WILLIAM COUNTY --- 0.2 W NOKESVILLE [38.70, -77.58]</b>	03/10/11 18:35 EST		0	Thunderstorm Wind (EG 50 kt)
	03/10/11 18:35 EST		0	Source: Amateur Radio
Branches were down in Nokesville.				

## Storm Data and Unusual Weather Phenomena - March 2011

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<b>PRINCE WILLIAM COUNTY --- 1.6 N WEST GATE OF LOMOND [38.79, -77.50]</b>				
	03/10/11 18:49 EST		3K	Thunderstorm Wind (EG 56 kt)
	03/10/11 18:49 EST		0	Source: NWS Employee
Trees were down along I-66 near mile marker 46.				
<b>FAIRFAX COUNTY --- 2.2 NE BULL RUN [38.85, -77.45], 2.1 NNW PENDER [38.90, -77.38]</b>				
	03/10/11 18:59 EST		5K	Tornado (EF0, L: 4.90 mi , W: 75 yd)
	03/10/11 19:03 EST		0	Source: NWS Storm Survey
Many broken tree branches were located near the Sully Station Shopping Center west of Braddock Road. Pine trees were snapped in Ellanor Lawrence Park along southbound Virginia Route 28. More pine trees were snapped in the woods of Lawrence Park north of Walney House. Minor tree damage continued across US Route 50 near the International Town and Country Club.				
<b>A strong cold front slowly passed through the area on the 10th. Plenty of moisture from the Gulf of Mexico and Atlantic Ocean were drawn into the region ahead of the front. A warm and moist southerly flow ahead of the front caused limited instability to develop. Strong lift from the front combined with the instability to trigger showers and thunderstorms.</b>				
<b>Winds just a few thousand feet above the surface were quite strong. Some thunderstorms were able to transport these winds down to the surface during the afternoon and evening hours of the 10th. There was also enough rotation at the lower levels of the atmosphere for isolated tornadoes in the stronger thunderstorms.</b>				
<b>HIGHLAND COUNTY --- 0.3 NE MONTEREY HANNAH ARPT [38.40, -79.60]</b>				
	03/21/11 17:30 EST		0	Thunderstorm Wind (MG 52 kt)
	03/21/11 17:30 EST		0	Source: Trained Spotter
A wind gust of 60 mph was measured near Monterey.				
<b>HIGHLAND COUNTY --- 0.8 NW MC DOWELL [38.34, -79.49]</b>				
	03/21/11 17:41 EST		0	Hail (1.00 in)
	03/21/11 17:41 EST		0	Source: Public
Hail up to quarters in size was reported in McDowell.				
<b>AUGUSTA COUNTY --- 2.7 S WEST AUGUSTA [38.24, -79.34]</b>				
	03/21/11 18:00 EST		0	Hail (1.00 in)
	03/21/11 18:00 EST		0	Source: Public
Hail up to the size of quarters was reported on Deerfield Valley Road.				
<b>PRINCE WILLIAM COUNTY --- 0.3 N DUMFRIES [38.57, -77.33]</b>				
	03/21/11 18:22 EST		1K	Thunderstorm Wind (EG 50 kt)
	03/21/11 18:22 EST		0	Source: Public
Large branches were down near Dumfries.				
<b>A warm front passed through the region on the 21st. Limited instability developed behind the front due to a southwest flow. An upper-level disturbance tracked through the area during this time to combine with the instability, bringing a few showers and thunderstorms. A few thunderstorms did produce damaging winds and large hail.</b>				
<b>AUGUSTA COUNTY --- 1.4 ESE WEST AUGUSTA [38.27, -79.31]</b>				
	03/23/11 16:30 EST		1K	Thunderstorm Wind (EG 50 kt)
	03/23/11 16:30 EST		0	Source: Trained Spotter
Numerous branches were down from thunderstorm wind gusts.				
<b>CULPEPER COUNTY --- 1.9 WNW JEFFERSONTON [38.64, -77.93]</b>				
	03/23/11 18:10 EST		1K	Thunderstorm Wind (EG 52 kt)
	03/23/11 18:10 EST		0	Source: Trained Spotter
Large branches were down along State Route 229.				

## Storm Data and Unusual Weather Phenomena - March 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>KING GEORGE COUNTY --- 1.3 WSW KING GEORGE [38.26, -77.19]</b>				
	03/23/11 18:20 EST		0	Hail (1.00 in)
	03/23/11 18:20 EST		0	Source: Trained Spotter
Quarter sized hail was reported near King George.				
<b>ROCKINGHAM COUNTY --- 1.0 SW TIMBERVILLE [38.64, -78.78]</b>				
	03/23/11 18:25 EST		3K	Thunderstorm Wind (EG 56 kt)
	03/23/11 18:25 EST		0	Source: Trained Spotter
Several large trees were snapped near Spar Pine Road and Getz DRive.				
<b>PAGE COUNTY --- 0.1 WSW LURAY [38.67, -78.47]</b>				
	03/23/11 18:39 EST		2K	Thunderstorm Wind (EG 56 kt)
	03/23/11 18:39 EST		0	Source: Fire Department/Rescue
Trees were knocked down along Bixlers Ferry Road.				
<b>PAGE COUNTY --- 0.2 S LURAY CAVERNS ARPT [38.67, -78.50]</b>				
	03/23/11 18:40 EST		0	Thunderstorm Wind (MG 55 kt)
	03/23/11 18:40 EST		0	Source: Mesonet
A wind gust of 63 mph was measured near Hamburg.				
<b>PAGE COUNTY --- 0.3 SSW HAMBURG [38.67, -78.53]</b>				
	03/23/11 18:40 EST		3K	Thunderstorm Wind (EG 56 kt)
	03/23/11 18:40 EST		0	Source: Fire Department/Rescue
Several trees were down north of Route 211.				
<b>PAGE COUNTY --- 0.6 ENE FAIRVIEW [38.65, -78.42]</b>				
	03/23/11 18:40 EST		2K	Thunderstorm Wind (EG 56 kt)
	03/23/11 18:40 EST		0	Source: Trained Spotter
Two trees were down blocking Leeksville Road near US211. Another tree was down near US340.				
<b>PAGE COUNTY --- 0.8 NW LURAY CAVERNS ARPT [38.68, -78.51]</b>				
	03/23/11 18:40 EST		5K	Thunderstorm Wind (EG 56 kt)
	03/23/11 18:40 EST		0	Source: Trained Spotter
Trees were knocked down onto a few vehicles at the Eqypt Bend Estates subdivision.				
<b>PAGE COUNTY --- 0.8 NE LURAY [38.68, -78.46]</b>				
	03/23/11 18:41 EST		1K	Thunderstorm Wind (EG 56 kt)
	03/23/11 18:41 EST		0	Source: Fire Department/Rescue
Trees were knocked down along Yaegers Road.				
<b>ROCKINGHAM COUNTY --- 2.2 WNW ELKTON [38.43, -78.66]</b>				
	03/23/11 18:45 EST		1K	Thunderstorm Wind (EG 56 kt)
	03/23/11 18:45 EST		0	Source: Fire Department/Rescue
A large tree near Elkton was knocked down from thunderstorm winds.				
<b>ROCKINGHAM COUNTY --- 0.9 SSW ELKTON [38.41, -78.62]</b>				
	03/23/11 18:47 EST		3K	Thunderstorm Wind (EG 56 kt)
	03/23/11 18:47 EST		0	Source: Fire Department/Rescue
Trees and powerlines were down near Elkton.				

A stationary boundary was located over northern Virginia on the 23rd. An upper-level disturbance tracked through the area during this time, bringing showers and thunderstorms. A few of the thunderstorms became severe across central Virginia where there was more



## Storm Data and Unusual Weather Phenomena - March 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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instability south and west of the boundary.

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(VA-Z025) AUGUSTA, (VA-Z026) ROCKINGHAM, (VA-Z027) SHENANDOAH, (VA-Z029) PAGE, (VA-Z037) ALBEMARLE, (VA-Z038) GREENE, (VA-Z039) MADISON, (VA-Z055) STAFFORD, (VA-Z057) KING GEORGE, (VA-Z502) SOUTHERN FAUQUIER, (VA-Z503) WESTERN HIGHLAND, (VA-Z504) EASTERN HIGHLAND

03/27/11 01:00 EST	0	Winter Weather
03/27/11 09:00 EST	0	

A wave of low pressure quickly passed by to the south during the morning hours of the 27th. High pressure to the north supplied enough cold air to cause precipitation associated with the low to fall in the form of snow.

### WEST VIRGINIA, East

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(WV-Z050) HAMPSHIRE, (WV-Z053) JEFFERSON, (WV-Z055) HARDY, (WV-Z501) WESTERN GRANT, (WV-Z503) WESTERN MINERAL, (WV-Z505) WESTERN PENDLETON

03/06/11 11:00 EST	0	Winter Weather
03/07/11 01:00 EST	0	

Low pressure tracked up the Mid-Atlantic Coast spreading rain across most of West Virginia early on the 6th. As the low passed by to the east, colder air was drawn into the system causing rain to mix with and eventually change to snow before ending early on the 7th. The heaviest snow amounts were across the higher elevations.

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(WV-Z504) EASTERN MINERAL, (WV-Z505) WESTERN PENDLETON

03/09/11 09:00 EST	0	Winter Weather
03/09/11 17:00 EST	0	

Low pressure tracked through the Midwest on the 9th. Plenty of moisture from the Atlantic Ocean was drawn into this system causing widespread precipitation eastern West Virginia. Most of the precipitation fell in the form of rain, but there was enough cold air for a period of snow near the Potomac Highlands during the morning and afternoon hours of the 9th.

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HARDY COUNTY --- 3.0 SSW LOST CITY [38.89, -78.86], 3.0 SSW LOST CITY [38.89, -78.86], 3.1 SSW LOST CITY [38.89, -78.86], 3.1 SSW LOST CITY [38.89, -78.86]

03/10/11 18:00 EST	0	Flash Flood (due to Heavy Rain)
03/10/11 18:30 EST	0	Source: Fire Department/Rescue

Flash flooding was reported on Caldwell Hollow Road.

Low pressure passed through the Great Lakes on the 10th. A strong cold front associated with this system slowly moved through eastern West Virginia during the afternoon and evening hours. A southeast wind between this system and high pressure over the Atlantic Ocean pumped in copious amounts of moisture across the region. The deep moisture combined with strong lift from the front and limited instability to trigger showers and thunderstorms. Some thunderstorms produced locally heavy amounts of rain in a short period of time which led to flash flooding.

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JEFFERSON COUNTY --- 1.9 E KABLETOWN [39.22, -77.81]

03/10/11 18:10 EST	0.50K	Thunderstorm Wind (EG 50 kt)
03/10/11 18:10 EST	0	Source: Trained Spotter

A tree three inches in diameter was down near Bloomery.

A strong cold front slowly passed through the area on the 10th. Plenty of moisture from the Gulf of Mexico and Atlantic Ocean were drawn into the region ahead of the front. A warm and moist southerly flow ahead of the front caused limited instability to develop. Strong lift from the front combined with the instability to trigger showers and thunderstorms.

Winds just a few thousand feet above the surface were quite strong. An isolated thunderstorm did transport these winds down to the surface over the eastern panhandle.

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GRANT COUNTY --- 1.3 WSW GORMANIA [39.27, -79.37]

03/23/11 17:23 EST	0	Thunderstorm Wind (EG 52 kt)
03/23/11 17:23 EST	0	Source: COOP Observer

A tree was down over a road in Bayard.

## Storm Data and Unusual Weather Phenomena - March 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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HAMPSHIRE COUNTY --- 2.4 E SLANESVILLE [39.37, -78.49]	03/23/11 18:05 EST		2K	Thunderstorm Wind (EG 52 kt)
	03/23/11 18:05 EST		0	Source: County Official

Trees were down near Slanesville.

A stationary boundary located across eastern West Virginia on the 23rd. An upper-level disturbance tracked through the area during this time, bringing showers and thunderstorms. A few of the thunderstorms became severe due to limited instability near the boundary.

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(WV-Z055) HARDY, (WV-Z502) EASTERN GRANT, (WV-Z505) WESTERN PENDLETON, (WV-Z506) EASTERN PENDLETON	03/27/11 01:00 EST		0	Winter Weather
	03/27/11 09:00 EST		0	

A wave of low pressure quickly passed by to the south during the morning hours of the 27th. High pressure to the north supplied enough cold air to cause precipitation associated with the low to fall in the form of snow.