

## Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>ATLANTIC NORTH</b>				
<b>PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- 0.1 NW MARYLAND SCIENCE CENTER [39.28, -76.61]</b>				
	07/02/12 02:10 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	07/02/12 02:10 EST	0		Source: Mesonet
A wind gust in excess of 30 knots was reported at the Maryland Science Center.				
<b>CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- 0.4 NW SUSQUEHANNA [39.54, -76.07]</b>				
	07/02/12 02:20 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	07/02/12 02:20 EST	0		Source: Buoy
A wind gust in excess of 30 knots was reported at the Susquehanna Buoy.				
<b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.1 NNE MONROE CREEK [38.23, -76.95]</b>				
	07/02/12 02:25 EST	0		Marine Thunderstorm Wind (MG 38 kt)
	07/02/12 02:35 EST	0		Source: Mesonet
Wind gusts up to 41 knots were reported at Monroe Creek.				
<b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.2 W POTOMAC LIGHT [38.34, -76.99]</b>				
	07/02/12 02:31 EST	0		Marine Thunderstorm Wind (MG 38 kt)
	07/02/12 02:38 EST	0		Source: Mesonet
Wind gusts up to 38 knots were reported at the Potomac Lighthouse.				
<b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.3 N CUCKOLD CREEK [38.31, -76.93]</b>				
	07/02/12 02:37 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/02/12 02:37 EST	0		Source: Mesonet
A wind gust of 34 knots was reported at Cuckold Creek.				
<b>CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 6.7 ENE BALTIMORE APPROACHES BUOY [39.21, -76.25]</b>				
	07/02/12 02:42 EST	0		Marine Thunderstorm Wind (MG 36 kt)
	07/02/12 02:48 EST	0		Source: Mesonet
Wind gusts up to 36 knots were reported at Tolchester Beach.				
<b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 0.4 SE LEWISSETTA [37.99, -76.47]</b>				
	07/02/12 02:54 EST	0		Marine Thunderstorm Wind (MG 39 kt)
	07/02/12 03:12 EST	0		Source: Mesonet
Wind gusts up to 39 knots were reported at Lewisetta.				
<b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 0.4 SE LEWISSETTA [37.99, -76.47]</b>				
	07/02/12 02:54 EST	0		Marine Thunderstorm Wind (MG 39 kt)
	07/02/12 03:18 EST	0		Source: Mesonet
Wind gusts up to 39 knots were reported at Lewisetta.				
<b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 0.2 WNW POINT LOOKOUT [38.04, -76.32]</b>				
	07/02/12 03:10 EST	0		Marine Thunderstorm Wind (MG 39 kt)
	07/02/12 03:40 EST	0		Source: Buoy
Wind gusts up to 39 knots were reported at Point Lookout.				
<b>CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- 0.8 SSW PATUXENT RIVER ASOS [38.28, -76.41]</b>				
	07/02/12 03:13 EST	0		Marine Thunderstorm Wind (MG 52 kt)
	07/02/12 03:13 EST	0		Source: ASOS
A wind gust of 52 knots was reported at Patuxent River.				

## Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- 0.2 SSE LOWER HOOPERS ISLAND [38.26, -76.18]</b>				
	07/02/12 03:27 EST		0	Marine Thunderstorm Wind (MG 50 kt)
	07/02/12 03:50 EST		0	Source: Mesonet
Wind gusts up to 50 knots were reported at Lower Hooper Island.				
<b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- BISHOPS HEAD [38.22, -76.04]</b>				
	07/02/12 03:34 EST		0	Marine Thunderstorm Wind (MG 52 kt)
	07/02/12 04:57 EST		0	Source: Buoy
Wind gusts up to 52 knots were reported at Bishops Head.				
<b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- PINEY POINT [38.13, -76.53]</b>				
	07/02/12 03:42 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	07/02/12 03:42 EST		0	Source: Mesonet
Wind gusts in excess of 30 knots were reported at Piney Point.				
<b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- CRISFIELD [37.97, -75.88]</b>				
	07/02/12 03:48 EST		0	Marine Thunderstorm Wind (MG 42 kt)
	07/02/12 04:34 EST		0	Source: Mesonet
Wind gusts up to 42 knots were reported at Crisfield.				
<b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.1 ESE RACCOON POINT [38.14, -75.79]</b>				
	07/02/12 03:56 EST		0	Marine Thunderstorm Wind (MG 43 kt)
	07/02/12 04:42 EST		0	Source: Mesonet
Wind gusts up to 43 knots were reported at Raccoon Point.				
<b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.1 NE BISHOPS HEAD [38.22, -76.04]</b>				
	07/02/12 04:06 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	07/02/12 04:06 EST		0	Source: Mesonet
A wind gust in excess of 30 knots was reported at Bishops Head.				
<b>A cold front passed through the waters during the early morning hours of the 2nd. The boundary triggered showers and thunderstorms. Some thunderstorms were able to produce gusty winds.</b>				
<b>TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 1.1 SE LYLES-CROUCH ACADEMY ALEXANDRIA [38.79, -77.04]</b>				
	07/03/12 20:30 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	07/03/12 20:30 EST		0	Source: Buoy
A wind gust in excess of 30 knots was reported at the Upper Potomac Buoy.				
<b>An upper-level disturbance triggered a few showers and thunderstorms during the third. An isolated thunderstorm produced gusty winds.</b>				
<b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.4 NE QUANTICO [38.50, -77.31]</b>				
	07/05/12 01:53 EST		0	Marine Thunderstorm Wind (MG 59 kt)
	07/05/12 02:02 EST		0	Source: ASOS
Wind gusts up to 59 knots were reported at Quantico.				
<b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.2 W POTOMAC LIGHT [38.34, -76.99]</b>				
	07/05/12 03:01 EST		0	Marine Thunderstorm Wind (MG 38 kt)
	07/05/12 03:01 EST		0	Source: Mesonet
A wind gust of 38 knots was reported at the Potomac Lighthouse.				
<b>An upper-level disturbance combined with moderate instability to trigger showers and thunderstorms during the 5th. A few thunderstorms produced gusty winds.</b>				

## Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.4 NE QUANTICO [38.50, -77.31]</b>				
	07/08/12 16:15 EST		0	Marine Thunderstorm Wind (MG 42 kt)
	07/08/12 16:15 EST		0	Source: ASOS
A wind gust of 42 knots was reported at Quantico.				
<b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.2 W POTOMAC LIGHT [38.34, -76.99]</b>				
	07/08/12 16:53 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	07/08/12 16:53 EST		0	Source: Mesonet
A wind gust of 36 knots was reported at the Potomac Lighthouse.				
<b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.1 NNE MONROE CREEK [38.23, -76.95]</b>				
	07/08/12 17:05 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	07/08/12 17:05 EST		0	Source: Mesonet
A wind gust of 34 knots was reported at Monroe Creek.				
<b>CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- 5.1 SSE CHESAPEAKE BEACH [38.62, -76.51]</b>				
	07/08/12 17:13 EST		0	Marine Thunderstorm Wind (EG 50 kt)
	07/08/12 17:13 EST		0	Source: Unknown
A wind gust of 50 knots was estimated based on thunderstorm wind damage nearby.				
<b>CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- 6.3 NNW MID BAY BUOY [38.56, -76.41]</b>				
	07/08/12 17:40 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	07/08/12 17:50 EST		0	Source: Buoy
A wind gust in excess of 30 knots was reported at Gooses Reef.				
<b>CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- COVE POINT [38.43, -76.39]</b>				
	07/08/12 17:54 EST		0	Marine Thunderstorm Wind (MG 42 kt)
	07/08/12 17:54 EST		0	Source: Buoy
A wind gust of 42 knots was reported at Cove Point.				
<b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.5 E BISHOPS HEAD [38.22, -76.03]</b>				
	07/08/12 18:11 EST		0	Marine Thunderstorm Wind (MG 54 kt)
	07/08/12 18:11 EST		0	Source: Mesonet
A wind gust of 54 knots was reported at Bishops Head.				
<b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.3 SSE CRISFIELD [37.97, -75.88]</b>				
	07/08/12 18:32 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	07/08/12 18:32 EST		0	Source: Mesonet
A wind gust of 36 knots was reported at Crisfield.				
<b>TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 3.4 NW WASHINGTON NATIONALS PARK [38.90, -77.06]</b>				
	07/08/12 23:05 EST		0	Marine Thunderstorm Wind (EG 50 kt)
	07/08/12 23:05 EST		0	Source: Unknown
A wind gust around 50 knots was estimated based on thunderstorm wind damage nearby.				
<b>A cold front combined with plenty of instability to cause showers and thunderstorms over the waters. There was enough instability for thunderstorms to produce gusty winds.</b>				
<b>TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 0.2 NE (DCA)REAGAN NATIONAL AIRPORT [38.85, -77.04]</b>				
	07/10/12 19:06 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	07/10/12 19:16 EST		0	Source: ASOS
Wind gusts up to 36 knots were reported at Reagan National.				

## Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A few showers and thunderstorms fired up along a cold front during the 10th. Isolated thunderstorms produced gusty winds.

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

	07/14/12 15:50 EST	0		Marine Thunderstorm Wind (MG 45 kt)
	07/14/12 15:50 EST	0		Source: Buoy

Wind gusts up to 45 knots were reported at Gooses Reef.

A trough of low pressure caused showers and thunderstorms to develop over the waters. An isolated thunderstorm produced gusty winds.

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**TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 13.7 WNW PINEY POINT [38.22, -76.75]**

	07/15/12 14:24 EST	0		Waterspout
	07/15/12 14:24 EST	0		Source: Public

A waterspout was observed by several members of the public near Breton Bay.

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**TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 0.2 WNW POINT LOOKOUT [38.04, -76.32]**

	07/15/12 15:20 EST	0		Marine Thunderstorm Wind (MG 39 kt)
	07/15/12 15:30 EST	0		Source: Mesonet

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

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**TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 2.3 NNE POTOMAC LIGHT [38.37, -76.97]**

	07/15/12 15:31 EST	0		Marine Thunderstorm Wind (EG 50 kt)
	07/15/12 15:31 EST	0		Source: Unknown

Wind gusts around 50 knots were estimated based on thunderstorm wind damage nearby.

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**TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.4 NE QUANTICO [38.50, -77.31]**

	07/15/12 16:41 EST	0		Marine Thunderstorm Wind (MG 36 kt)
	07/15/12 16:51 EST	0		Source: ASOS

Wind gusts up to 36 knots were measured at Quantico.

Moderate instability along with a surface trough caused showers and thunderstorms to develop on the 15th. A few thunderstorms produced gusty winds.

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**PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- 1.1 SE BALTIMORE CITY [39.27, -76.58]**

	07/18/12 15:30 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/18/12 15:30 EST	0		Source: Mesonet

A wind gust of 34 knots was measured.

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**CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 0.1 NNW PATAPSCO BUOY [39.15, -76.39]**

	07/18/12 15:40 EST	0		Marine Thunderstorm Wind (MG 47 kt)
	07/18/12 15:40 EST	0		Source: Buoy

A wind gust of 47 knots was reported at Patapsco Buoy.

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

	07/18/12 15:48 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	07/18/12 15:48 EST	0		Source: Mesonet

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

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**TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 1.8 WNW WASHINGTON NATIONALS PARK [38.88, -77.04]**

	07/18/12 15:59 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/18/12 15:59 EST	0		Source: Mesonet

A wind gust of 34 knots was measured.

## Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 0.2 NE (DCA)REAGAN NATIONAL AIRPORT [38.85, -77.04]</b>				
	07/18/12 16:03 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	07/18/12 16:06 EST	0		Source: ASOS
Wind gusts in excess of 30 knots were reported at Reagan National.				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.2 SE GREENBERRY POINT [38.97, -76.46]</b>				
	07/18/12 16:15 EST	0		Marine Thunderstorm Wind (MG 42 kt)
	07/18/12 16:41 EST	0		Source: Mesonet
Wind gusts up to 42 knots were measured at Greenberry Point.				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.4 SE TOLLY POINT [38.94, -76.44]</b>				
	07/18/12 16:17 EST	0		Marine Thunderstorm Wind (MG 41 kt)
	07/18/12 16:33 EST	0		Source: Mesonet
Wind gusts up to 41 knots were measured at Tolly Point.				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.3 S ANNAPOLIS [38.98, -76.48]</b>				
	07/18/12 16:20 EST	0		Marine Thunderstorm Wind (MG 41 kt)
	07/18/12 16:40 EST	0		Source: Buoy
Wind gusts up to 41 knots were measured at the Annapolis Buoy.				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.8 N US NAVAL ACADEMY [38.99, -76.49]</b>				
	07/18/12 16:27 EST	0		Marine Thunderstorm Wind (MG 38 kt)
	07/18/12 16:27 EST	0		Source: ASOS
A wind gust of 38 knots was measured at Annapolis.				
<b>CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 3.5 NW SANDY POINT [39.05, -76.44]</b>				
	07/18/12 16:30 EST	0		Marine Thunderstorm Wind (EG 50 kt)
	07/18/12 16:30 EST	0		Source: Unknown
Wind gusts around 50 knots were estimated due to thunderstorm wind damage nearby.				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.2 S STEVENSVILLE [38.98, -76.33]</b>				
	07/18/12 16:36 EST	0		Marine Thunderstorm Wind (MG 40 kt)
	07/18/12 16:36 EST	0		Source: Mesonet
A wind gust of 40 knots was measured at Stevensville.				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.3 WSW KENT ISLAND [38.92, -76.36]</b>				
	07/18/12 16:37 EST	0		Marine Thunderstorm Wind (MG 36 kt)
	07/18/12 16:37 EST	0		Source: Mesonet
A wind gust of 36 knots was measured at Kent Island.				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- THOMAS POINT LIGHT [38.90, -76.44]</b>				
	07/18/12 16:40 EST	0		Marine Thunderstorm Wind (MG 36 kt)
	07/18/12 16:40 EST	0		Source: Buoy
A wind gust of 36 knots was measured at the Thomas Point Lighthouse.				
<b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- BISHOPS HEAD [38.22, -76.04]</b>				
	07/18/12 18:51 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/18/12 18:51 EST	0		Source: Buoy
A wind gust of 34 knots was measured at Bishops Head.				
<b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.1 NE BISHOPS HEAD [38.22, -76.04]</b>				

## Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/18/12 18:54 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	07/18/12 19:06 EST		0	Source: Mesonet

Wind gusts up to 36 knots were measured at Bishops Head.

<b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.3 SSE CRISFIELD [37.97, -75.88]</b>				
	07/18/12 19:37 EST		0	Marine Thunderstorm Wind (MG 38 kt)
	07/18/12 19:37 EST		0	Source: Mesonet

A wind gust of 38 knots was reported at Crisfield.

<b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.3 SSE CRISFIELD [37.97, -75.88]</b>				
	07/18/12 19:39 EST		0	Marine Thunderstorm Wind (MG 52 kt)
	07/18/12 20:10 EST		0	Source: Mesonet

Wind gusts up to 52 knots were reported at Crisfield.

<b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.3 SSE CRISFIELD [37.97, -75.88]</b>				
	07/18/12 20:23 EST		0	Marine Thunderstorm Wind (MG 38 kt)
	07/18/12 20:23 EST		0	Source: Mesonet

A wind gust of 38 knots was measured at Crisfield.

**A surface trough combined with moderate instability caused showers and thunderstorms to develop. There was enough instability for thunderstorms to produce gusty winds.**

<b>PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- 1.1 SE BALTIMORE CITY [39.27, -76.58]</b>				
	07/19/12 17:48 EST		0	Marine Thunderstorm Wind (MG 51 kt)
	07/19/12 18:06 EST		0	Source: Buoy

Wind gusts up to 51 knots were measured.

<b>PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- 0.1 NW MARYLAND SCIENCE CENTER [39.28, -76.61]</b>				
	07/19/12 17:50 EST		0	Marine Thunderstorm Wind (MG 45 kt)
	07/19/12 18:10 EST		0	Source: Mesonet

Wind gusts up to 45 knots were measured at the Maryland Science Center.

<b>PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- ORIOLE PARK AT CAMDEN YARDS [39.28, -76.62]</b>				
	07/19/12 18:00 EST		0	Marine Thunderstorm Wind (MG 40 kt)
	07/19/12 18:00 EST		0	Source: Mesonet

A wind gust of 40 knots was measured at Camden Yards.

<b>PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- 4.3 NNW RIVIERA BEACH [39.22, -76.53]</b>				
	07/19/12 18:24 EST		0	Marine Thunderstorm Wind (MG 57 kt)
	07/19/12 18:36 EST		0	Source: Buoy

Wind gusts up to 57 knots were measured at Key Bridge.

<b>CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 0.1 NNW PATAPSCO BUOY [39.15, -76.39]</b>				
	07/19/12 19:00 EST		0	Marine Thunderstorm Wind (MG 37 kt)
	07/19/12 19:10 EST		0	Source: Buoy

Wind gusts up to 37 knots were measured at the Patapsco Buoy.

<b>TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 0.7 E (DCA)REAGAN NATIONAL AIRPORT [38.85, -77.03]</b>				
	07/19/12 21:14 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	07/19/12 21:18 EST		0	Source: ASOS

Wind gusts up to 35 knots were measured at Reagan National.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.4 NE QUANTICO [38.50, -77.31]</b>				
	07/19/12 22:03 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	07/19/12 22:03 EST		0	Source: ASOS
A wind gust in excess of 30 knots was reported at Quantico.				
<b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.3 SSE CRISFIELD [37.97, -75.88]</b>				
	07/19/12 22:20 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	07/19/12 22:29 EST		0	Source: Mesonet
Wind gusts up to 36 knots were measured at Crisfield.				
<b>CHOPTANK RIVER TO CAMBRIDGE MD AND THE LITTLE CHOPTANK RIVER COUNTY --- 12.4 WNW HORN POINT [38.68, -76.34]</b>				
	07/19/12 22:56 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	07/19/12 22:56 EST		0	Source: Mesonet
A wind gust in excess of 30 knots was reported at Black Walnut Harbor.				
<b>A surface trough combined with moderate instability caused showers and thunderstorms to develop. There was enough instability for some thunderstorms to produce gusty winds.</b>				
<b>CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- 0.4 NW SUSQUEHANNA [39.54, -76.07]</b>				
	07/26/12 19:20 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	07/26/12 19:20 EST		0	Source: Buoy
A wind gust of 35 knots was reported at the Susquehanna Buoy.				
<b>CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- HAVRE DE GRACE [39.55, -76.10]</b>				
	07/26/12 19:29 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	07/26/12 19:29 EST		0	Source: Mesonet
A wind gust of 34 knots was reported at Havre De Grace.				
<b>CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 0.2 NNW MILLER ISLAND [39.25, -76.37]</b>				
	07/26/12 20:23 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	07/26/12 20:23 EST		0	Source: Mesonet
A wind gust in excess of 30 knots was reported.				
<b>TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 0.7 E (DCA)REAGAN NATIONAL AIRPORT [38.85, -77.03]</b>				
	07/26/12 21:19 EST		0	Marine Thunderstorm Wind (MG 37 kt)
	07/26/12 21:19 EST		0	Source: ASOS
A wind gust of 37 knots was measured at Reagan National.				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.2 SE GREENBERRY POINT [38.97, -76.46]</b>				
	07/26/12 21:23 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	07/26/12 21:27 EST		0	Source: Mesonet
Wind gusts up to 36 knots were reported at Greenbury Point.				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.4 SE TOLLY POINT [38.94, -76.44]</b>				
	07/26/12 21:31 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	07/26/12 21:31 EST		0	Source: Mesonet
Wind gusts in excess of 30 knots were measured at Tolly Point.				
<b>CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 6.7 ENE BALTIMORE APPROACHES BUOY [39.21, -76.25]</b>				
	07/26/12 21:32 EST		0	Marine Thunderstorm Wind (MG 39 kt)
	07/26/12 21:32 EST		0	Source: Mesonet
A wind gust of 39 knots was measured at Tolchester Beach.				

## Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 0.1 NNW PATAPSCO BUOY [39.15, -76.39]</b>				
	07/26/12 21:40 EST	0		Marine Thunderstorm Wind (MG 39 kt)
	07/26/12 21:40 EST	0		Source: Buoy
A wind gust of 39 knots was reported at the Patapsco Buoy.				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- THOMAS POINT LIGHT [38.90, -76.44]</b>				
	07/26/12 21:45 EST	0		Marine Thunderstorm Wind (MG 39 kt)
	07/26/12 21:45 EST	0		Source: C-MAN Station
A wind gust of 39 knots was measured at Thomas Point Lighthouse.				
<b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.2 W POTOMAC LIGHT [38.34, -76.99]</b>				
	07/26/12 22:21 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	07/26/12 22:27 EST	0		Source: Mesonet
Wind gusts in excess of 30 knots was reported at the Potomac Lighthouse.				
<b>CHOPTANK RIVER TO CAMBRIDGE MD AND THE LITTLE CHOPTANK RIVER COUNTY --- CAMBRIDGE [38.57, -76.07]</b>				
	07/26/12 22:42 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	07/26/12 22:42 EST	0		Source: Buoy
A wind gust in excess of 30 knots was measured at Cambridge.				
<b>CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- COVE POINT [38.43, -76.39]</b>				
	07/26/12 22:46 EST	0		Marine Thunderstorm Wind (MG 38 kt)
	07/26/12 22:54 EST	0		Source: Buoy
Wind gusts of 38 knots were measured at Cove Point.				
<b>A cold front passed through the waters on the 26th. Hot and humid conditions ahead of the front caused moderate amounts of instability. The cold front triggered showers and thunderstorms. There was enough instability for thunderstorms to produce gusty winds.</b>				
<b>CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- 0.4 NW SUSQUEHANNA [39.54, -76.07]</b>				
	07/28/12 15:20 EST	0		Marine Thunderstorm Wind (MG 35 kt)
	07/28/12 15:20 EST	0		Source: Buoy
A wind gust of 35 knots was measured at the Susquehanna Buoy.				
<b>CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- 3.3 ENE PHILLIPS ARMY AIRFIELD [39.48, -76.11]</b>				
	07/28/12 15:45 EST	0		Marine Thunderstorm Wind (EG 50 kt)
	07/28/12 15:45 EST	0		Source: Unknown
Wind gusts were estimated to be around 50 knots based on thunderstorm wind damage nearby.				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- THOMAS POINT LIGHT [38.90, -76.44]</b>				
	07/28/12 18:00 EST	0		Marine Thunderstorm Wind (MG 36 kt)
	07/28/12 18:00 EST	0		Source: C-MAN Station
A wind gust of 36 knots was measured at the Thomas Point Lighthouse.				
<b>CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- 6.3 NNW MID BAY BUOY [38.56, -76.41]</b>				
	07/28/12 18:20 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	07/28/12 18:30 EST	0		Source: Buoy
Wind gusts in excess of 30 knots were measured at Gooses Reef.				
<b>CHOPTANK RIVER TO CAMBRIDGE MD AND THE LITTLE CHOPTANK RIVER COUNTY --- CAMBRIDGE [38.57, -76.07]</b>				
	07/28/12 18:36 EST	0		Marine Thunderstorm Wind (MG 40 kt)
	07/28/12 19:00 EST	0		Source: Buoy



## Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Wind gusts up to 40 knots were reported at Cambridge.

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**TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 0.7 E (DCA)REAGAN NATIONAL AIRPORT [38.85, -77.03]**

07/28/12 18:57 EST	0	Marine Thunderstorm Wind (MG 36 kt)
07/28/12 18:57 EST	0	Source: ASOS

A wind gust of 36 knots was measured at Reagan National.

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

07/28/12 19:05 EST	0	Marine Thunderstorm Wind (MG 36 kt)
07/28/12 19:05 EST	0	Source: C-MAN Station

A wind gust of 36 knots was measured at Thomas Point.

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**CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.3 S ANNAPOLIS [38.98, -76.48]**

07/28/12 20:00 EST	0	Marine Thunderstorm Wind (EG 34 kt)
07/28/12 20:10 EST	0	Source: Buoy

Wind gusts in excess of 30 knots were measured at the Annapolis Buoy.

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

07/28/12 20:40 EST	0	Marine Thunderstorm Wind (MG 35 kt)
07/28/12 20:50 EST	0	Source: Mesonet

A wind gust of 35 knots was measured at Crisfield.

**A cold front along with an upper-level trough moved into the waters on the 28th. Showers and thunderstorms developed near the cold front. There was enough instability from cooler air aloft associated with the upper-level trough for thunderstorms to produce gusty winds.**

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**TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 0.2 WNW POINT LOOKOUT [38.04, -76.32]**

07/31/12 02:20 EST	0	Marine Thunderstorm Wind (MG 35 kt)
07/31/12 02:20 EST	0	Source: Buoy

A wind gust of 35 knots was reported at Point Lookout.

**A trough of low pressure triggered showers and thunderstorms. An isolated thunderstorm produced gusty winds.**

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### DISTRICT OF COLUMBIA

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**(DC-Z001) DISTRICT OF COLUMBIA**

07/04/12 15:00 EST	0	Heat
07/04/12 17:00 EST	0	

Upper-level high pressure built overhead while surface high pressure moved off the coast. A southerly flow combined with sunshine and subsidence for hot and humid conditions.

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**(DC-Z001) DISTRICT OF COLUMBIA**

07/08/12 11:00 EST	0	Heat
07/08/12 16:00 EST	0	

Upper-level high pressure built overhead while surface high pressure moved off the coast. A southerly flow combined with sunshine and subsidence for hot and humid conditions.

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**DISTRICT OF COLUMBIA COUNTY --- 1.9 SW GEORGETOWN [38.90, -77.08]**

07/08/12 23:05 EST	1K	Thunderstorm Wind (EG 52 kt)
07/08/12 23:05 EST	0	Source: Public

A tree was down due to a thunderstorm wind gust.

## Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>A cold front passed through the area on the 8th. High heat and humidity ahead of the boundary caused plenty of instability. The high instability combined with forcing from the front, causing an isolated thunderstorm to produce damaging winds.</p>				
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<p>DISTRICT OF COLUMBIA COUNTY --- 0.9 SW BROOKLAND [38.92, -77.01], 1.1 SSW BROOKLAND [38.92, -77.01], 1.3 SSW BROOKLAND [38.91, -77.01], 1.3 SW BROOKLAND [38.92, -77.02]</p>				
	07/10/12 19:20 EST		0	Flash Flood (due to Heavy Rain)
	07/10/12 21:20 EST		0	Source: Broadcast Media
<p>Flash flooding near Rhode Island Avenue and First Street Northwest in Bloomingdale.</p>				
<p>A cold front move through the Mid-Atlantic during the evening hours. Showers and thunderstorms along the front had very high rainfall rates. Enough rain fell in the Washington DC to induce an isolated flash flood in the Bloomingdale neighborhood from rainfall amounts of up to 2.36 inches.</p>				
<hr/>				
(DC-Z001) DISTRICT OF COLUMBIA				
	07/18/12 13:00 EST		0	Heat
	07/18/12 15:00 EST		0	
<p>High pressure off the coast allowed for a hot and humid air mass to remain over the Mid-Atlantic.</p>				
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<p>DISTRICT OF COLUMBIA COUNTY --- 1.8 W WALTER REED [38.98, -77.06]</p>				
	07/18/12 15:22 EST		20K	Thunderstorm Wind (EG 52 kt)
	07/18/12 15:22 EST		0	Source: Broadcast Media
<p>A large tree fell across two houses.</p>				
<hr/>				
<p>DISTRICT OF COLUMBIA COUNTY --- 1.8 NE BENNING [38.90, -76.93]</p>				
	07/18/12 16:10 EST		15K	Thunderstorm Wind (EG 52 kt)
	07/18/12 16:10 EST		0	Source: Newspaper
<p>A tree was blown down onto a car in the 4900 Block of Jay Street NE.</p>				
<p>A surface trough combined with moderate instability caused showers and thunderstorms to develop. There was enough instability for a few thunderstorms to produce damaging wind gusts.</p>				
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<p>DISTRICT OF COLUMBIA COUNTY --- 0.7 S BROOKLAND [38.92, -77.00], 0.6 SSE BROOKLAND [38.92, -77.00], 0.7 SSE BROOKLAND [38.92, -77.00], 0.7 S BROOKLAND [38.92, -77.00]</p>				
	07/18/12 17:00 EST		0	Flash Flood (due to Heavy Rain)
	07/18/12 19:00 EST		0	Source: Broadcast Media
<p>Rhode Island Avenue was closed due to flash flooding. Several vehicles stalled in high water.</p>				
<p>A nearly stationary low pressure trough induced a slow-moving thunderstorm over Washington DC during the afternoon. Very heavy rain associated with it caused flash flooding in the Bloomingdale neighborhood.</p>				
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<p>DISTRICT OF COLUMBIA COUNTY --- 1.8 SW BROOKLAND [38.91, -77.02], 1.4 SW BROOKLAND [38.92, -77.02], 0.3 SSE BROOKLAND [38.93, -77.00], 1.0 W NATIONAL ARBORETUM [38.92, -76.99]</p>				
	07/19/12 21:40 EST		0	Flash Flood (due to Heavy Rain)
	07/19/12 23:40 EST		0	Source: State Official
<p>Multiple blocks of Rhode Island Avenue reporting flash flooding. Also, flash flooding forced closures on West Virginia Avenue, Olive Avenue, Eastern Avenue, and Minnesota Avenue.</p>				
<p>Low pressure drifted eastward across the Mid-Atlantic along a stalled front. Afternoon showers and thunderstorms erupted in a highly moist and unstable atmosphere. Heavy rain associated with some of the activity caused flash flooding.</p>				
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(DC-Z001) DISTRICT OF COLUMBIA				
	07/26/12 13:00 EST		0	Heat
	07/26/12 18:00 EST		0	
<p>High pressure off the coast allowed for a hot and humid air mass to remain over the Mid-Atlantic.</p>				

## Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>MARYLAND, Central</b>				
<b>BALTIMORE COUNTY --- 0.7 S CHADWICK MANOR [39.29, -76.73]</b>				
	07/02/12 00:28 EST		15K	Thunderstorm Wind (EG 56 kt)
	07/02/12 00:28 EST		0	Source: State Official
Two trees fell into houses in Westview.				
<b>ST. MARY'S COUNTY --- 0.5 W PATUXENT RIVER [38.28, -76.41]</b>				
	07/02/12 03:13 EST		0	Thunderstorm Wind (MG 52 kt)
	07/02/12 03:13 EST		0	Source: AWOS
A wind gust of 60 mph was reported.				
<b>A cold front passed through during the early morning hours of the 2nd. The boundary triggered showers and thunderstorms. Some thunderstorms were able to produce damaging wind gusts.</b>				
<b>WASHINGTON COUNTY --- 0.2 ESE FAIRVIEW [39.72, -77.85]</b>				
	07/03/12 17:13 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/03/12 17:13 EST		0	Source: Public
Trees were down along Fairview Church Road.				
<b>ALLEGANY COUNTY --- 0.5 W OLDTOWN [39.55, -78.63]</b>				
	07/03/12 17:15 EST		0	Thunderstorm Wind (EG 52 kt)
	07/03/12 17:15 EST		0	Source: Trained Spotter
Branches that were two to three inches in diameter were broken off.				
<b>WASHINGTON COUNTY --- 0.5 N SHARPSBURG [39.46, -77.75]</b>				
	07/03/12 17:55 EST		0	Thunderstorm Wind (EG 52 kt)
	07/03/12 17:55 EST		0	Source: State Official
A tree limb was down.				
<b>An upper-level disturbance triggered a few showers and thunderstorms. There was enough instability from a hot and humid air mass for a few thunderstorms to produce damaging wind gusts and large hail across the western portion of the state.</b>				
<b>(MD-Z007) HARFORD, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z013) PRINCE GEORGES</b>				
	07/04/12 15:00 EST		0	Heat
	07/04/12 18:00 EST		0	
<b>Upper-level high pressure built overhead while surface high pressure moved off the coast. A southerly flow combined with sunshine and subsidence for hot and humid conditions.</b>				
<b>ALLEGANY COUNTY --- 0.4 ENE KINGS GROVE [39.72, -78.76]</b>				
	07/04/12 18:55 EST		0	Hail (1.00 in)
	07/04/12 18:55 EST		0	Source: Broadcast Media
Quarter sized hail was reported.				
<b>An upper-level disturbance passed through the area on the 4th. Moderate amounts of instability combined with forcing from the disturbance for showers and thunderstorms to develop. An isolated thunderstorm produced large hail.</b>				
<b>CHARLES COUNTY --- 0.6 NW DONCASTER [38.51, -77.23]</b>				
	07/05/12 02:11 EST		0	Hail (1.00 in)
	07/05/12 02:11 EST		0	Source: Public
Quarter sized hail was reported.				
<b>CHARLES COUNTY --- 0.6 NW DONCASTER [38.51, -77.23]</b>				
	07/05/12 02:11 EST		0	Thunderstorm Wind (EG 52 kt)
	07/05/12 02:11 EST		0	Source: Public

## Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Small branches were down.				
<b>CHARLES COUNTY --- 0.5 SSW BEL ALTON [38.46, -76.98]</b>				
	07/05/12 02:47 EST		5K	Thunderstorm Wind (EG 56 kt)
	07/05/12 02:47 EST		0	Source: State Official
Numerous trees were down.				
<b>BALTIMORE COUNTY --- 0.9 SE GLENCOE [39.54, -76.62]</b>				
	07/05/12 17:44 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/05/12 17:44 EST		0	Source: Emergency Manager
A tree was down on the 1600 Block of Sparks Road.				
<b>HARFORD COUNTY --- 1.5 SSW TAYLOR [39.56, -76.53]</b>				
	07/05/12 17:52 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/05/12 17:52 EST		0	Source: State Official
A tree was down on wires along Hess Road between Jarettsville Pike and Man Road near Monkton.				
<b>HARFORD COUNTY --- 0.7 S UPPER XRDS [39.54, -76.48]</b>				
	07/05/12 17:58 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/05/12 17:58 EST		0	Source: State Official
A tree was down across the roadway on Scarff Road off of Baldwin Mill Road.				
<b>HARFORD COUNTY --- 1.4 S FULFORD [39.53, -76.28]</b>				
	07/05/12 18:23 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/05/12 18:23 EST		0	Source: State Official
A large tree fell down on Wheel Road between State Route 543 and Schucks Road.				
<b>An upper-level disturbance combined with moderate instability to trigger showers and thunderstorms during the 5th. A couple thunderstorms produced damaging wind gusts and large hail.</b>				
<b>(MD-Z011) SOUTHERN BALTIMORE, (MD-Z014) ANNE ARUNDEL, (MD-Z016) CHARLES, (MD-Z017) ST. MARY'S, (MD-Z018) CALVERT</b>				
	07/05/12 10:34 EST		0	Heat
	07/05/12 18:00 EST		0	
<b>(MD-Z011) SOUTHERN BALTIMORE</b>				
	07/05/12 12:34 EST	3	0	Excessive Heat
	07/05/12 17:00 EST		0	
Direct Fatalities: M????				
<b>Upper-level high provided plenty of subsidence while a southerly flow continued over the area due to surface high pressure off the coast. The subsidence and southerly flow caused hot and humid conditions.</b>				
<b>(MD-Z016) CHARLES</b>				
	07/07/12 11:00 EST		0	Excessive Heat
	07/07/12 13:00 EST		0	
<b>(MD-Z003) WASHINGTON, (MD-Z502) CENTRAL AND EASTERN ALLEGANY</b>				
	07/07/12 14:00 EST		0	Heat
	07/07/12 16:00 EST		0	
<b>Upper-level high pressure built overhead while surface high pressure moved off the coast. A southerly flow combined with sunshine and subsidence for hot and humid conditions.</b>				
<b>(MD-Z009) MONTGOMERY, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z013) PRINCE GEORGES, (MD-Z014) ANNE ARUNDEL, (MD-Z017) ST. MARY'S,</b>				

## Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>(MD-Z018) CALVERT</b>				
	07/08/12 11:00 EST	1	0	Heat
	07/08/12 16:00 EST		0	
Direct Fatalities: M????				
<b>(MD-Z016) CHARLES</b>				
	07/08/12 13:00 EST		0	Excessive Heat
	07/08/12 15:00 EST		0	
<b>Upper-level high pressure built overhead while surface high pressure moved off the coast. A southerly flow combined with sunshine and subsidence for hot and humid conditions.</b>				
<b>CHARLES COUNTY --- 0.5 ESE DONCASTER [38.50, -77.21]</b>				
	07/08/12 16:25 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/08/12 16:25 EST		0	Source: State Official
A tree was down at Gilroy and Port Tobacco Road.				
<b>CALVERT COUNTY --- 0.7 NE WILSON [38.61, -76.52]</b>				
	07/08/12 17:10 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/08/12 17:10 EST		0	Source: State Official
A tree was down on Wilson Road and Plum Point Road.				
<b>CALVERT COUNTY --- 0.7 N BOWENS [38.51, -76.62]</b>				
	07/08/12 17:12 EST		0	Thunderstorm Wind (EG 52 kt)
	07/08/12 17:12 EST		0	Source: Emergency Manager
Trees were down on Adelina Road near Hallowing Point Road.				
<b>ST. MARY'S COUNTY --- 0.6 NNE MORGANZA [38.39, -76.70]</b>				
	07/08/12 17:13 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/08/12 17:13 EST		0	Source: Emergency Manager
Trees were down on Morganza Turner Road.				
<b>A cold front passed through the area on the 8th. High heat and humidity ahead of the boundary caused plenty of instability. The high instability combined with forcing from the front, causing thunderstorms to produce damaging winds large hail.</b>				
<b>FREDERICK COUNTY --- 1.3 W WALKERSVILLE [39.48, -77.37], 1.3 WSW WALKERSVILLE [39.48, -77.37], 0.6 W WALKERSVILLE [39.48, -77.36], 0.6 WNW WALKERSVILLE [39.48, -77.36]</b>				
	07/09/12 02:30 EST		0	Flash Flood (due to Heavy Rain)
	07/09/12 04:00 EST		0	Source: State Official
Several reports of high water were received in and near Walkersville.				
<b>A cold front stalled just south of Maryland during the early morning. Elevated showers and thunderstorms trained north of this boundary, across northern Maryland. Rainfall amounts were sufficient to cause an isolated flash flood in Frederick County.</b>				
<b>ST. MARY'S COUNTY --- 0.5 S COLTON [38.22, -76.75], 0.4 SSW COLTON [38.22, -76.75]</b>				
	07/15/12 14:24 EST		10K	Tornado (EF0, L: 0.05 mi , W: 50 yd)
	07/15/12 14:25 EST		0	Source: Emergency Manager
A waterspout was reported to have moved onshore along Windy Lane near Coltons Point, becoming a tornado. The tornado snapped large tree limbs as well as removing siding and shingles to homes.				
<b>CHARLES COUNTY --- NEWBURG CLIFFTON ARP [38.37, -76.97]</b>				
	07/15/12 15:31 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/15/12 15:31 EST		0	Source: Trained Spotter
A large portion of a tree snapped off into a garage.				

## Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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An upper-level trough combined with an unstable atmosphere to trigger showers and thunderstorms. An isolated thunderstorms produced damaging wind gusts. Winds changed speed and direction with height, causing enough rotation for a thunderstorm to develop into a tornado across lower southern Maryland.

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(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

	07/18/12 10:00 EST	0	Heat
	07/18/12 17:00 EST	0	

High pressure off the coast allowed for a hot and humid air mass to remain over the Mid-Atlantic.

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(MD-Z011) SOUTHERN BALTIMORE

	07/18/12 12:00 EST	0	Excessive Heat
	07/18/12 15:00 EST	0	

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WASHINGTON COUNTY --- 0.4 E HAGERSTOWN [39.65, -77.71]

	07/18/12 13:44 EST	2K	Thunderstorm Wind (EG 52 kt)
	07/18/12 13:44 EST	0	Source: State Official

A tree fell onto a telephone pole along Wayside Avenue.

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WASHINGTON COUNTY --- 0.8 S HAGERSTOWN [39.64, -77.72]

	07/18/12 13:45 EST	2K	Thunderstorm Wind (EG 52 kt)
	07/18/12 13:45 EST	0	Source: State Official

A tree fell onto power lines along Locust Street.

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WASHINGTON COUNTY --- 1.3 SE LINCOLN AVENUE [39.61, -77.75]

	07/18/12 13:46 EST	2K	Thunderstorm Wind (EG 52 kt)
	07/18/12 13:46 EST	0	Source: Fire Department/Rescue

Trees were down due to thunderstorm wind gusts.

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WASHINGTON COUNTY --- 1.0 ESE LINCOLN AVENUE [39.61, -77.75]

	07/18/12 13:49 EST	2K	Thunderstorm Wind (EG 52 kt)
	07/18/12 13:49 EST	0	Source: Fire Department/Rescue

A tree fell onto wires along Red Oak Drive.

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WASHINGTON COUNTY --- 1.8 SW CHEWSVILLE [39.63, -77.66]

	07/18/12 14:10 EST	2K	Thunderstorm Wind (EG 52 kt)
	07/18/12 14:10 EST	0	Source: Fire Department/Rescue

A tree fell onto power lines Peacock Trail.

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WASHINGTON COUNTY --- 1.6 ESE MAPLEVILLE [39.52, -77.62]

	07/18/12 14:13 EST	1K	Thunderstorm Wind (EG 52 kt)
	07/18/12 14:13 EST	0	Source: State Official

A tree fell across the intersection of Boonsboro Mountain Road and Keadle Road.

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WASHINGTON COUNTY --- 0.7 NNE LAPPANS [39.56, -77.74]

	07/18/12 14:20 EST	2K	Thunderstorm Wind (EG 52 kt)
	07/18/12 14:20 EST	0	Source: State Official

A tree fell onto power lines along Lappins road.

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WASHINGTON COUNTY --- 0.6 N MAPLEVILLE [39.54, -77.65]

## Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/18/12 14:24 EST		2K	Thunderstorm Wind (EG 52 kt)
	07/18/12 14:24 EST		0	Source: 911 Call Center
Trees were down at Mill Point Road.				
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<b>CARROLL COUNTY --- 0.5 E TYRONE [39.62, -77.09]</b>				
	07/18/12 14:30 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/18/12 14:30 EST		0	Source: 911 Call Center
Large limbs were down due to thunderstorm wind gusts.				
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<b>CARROLL COUNTY --- 1.2 SSE TANEYTOWN [39.66, -77.17]</b>				
	07/18/12 14:30 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/18/12 14:30 EST		0	Source: Emergency Manager
Large limbs and a power line was down due to thunderstorm wind gusts.				
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<b>CARROLL COUNTY --- 1.5 NNW AVONDALE [39.59, -77.04]</b>				
	07/18/12 14:30 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/18/12 14:30 EST		0	Source: State Official
Large limbs were down along MD 140.				
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<b>FREDERICK COUNTY --- 0.4 NNW LOYS [39.60, -77.35]</b>				
	07/18/12 14:30 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/18/12 14:30 EST		0	Source: State Official
Trees were down along Old Frederick Road and Old Mill Road.				
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<b>FREDERICK COUNTY --- 1.1 ENE CATOCTIN FURNACE [39.59, -77.41]</b>				
	07/18/12 14:30 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/18/12 14:30 EST		0	Source: State Official
A tree was down on Kellys Store Road.				
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<b>WASHINGTON COUNTY --- 1.6 S PONDSVILLE [39.60, -77.60]</b>				
	07/18/12 14:30 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/18/12 14:30 EST		0	Source: 911 Call Center
A tree was down along Crystal Falls Drive.				
<hr/>				
<b>FREDERICK COUNTY --- 2.2 W NEW LONDON [39.42, -77.29]</b>				
	07/18/12 14:50 EST		0	Thunderstorm Wind (EG 52 kt)
	07/18/12 14:50 EST		0	Source: CoCoRaHS
Branches were down due to thunderstorm wind gusts.				
<hr/>				
<b>ANNE ARUNDEL COUNTY --- 2.0 NW ODENTON [39.10, -76.73]</b>				
	07/18/12 15:45 EST		2K	Thunderstorm Wind (EG 52 kt)
	07/18/12 15:45 EST		0	Source: Emergency Manager
Several trees were down due to thunderstorm wind gusts.				
<hr/>				
<b>ANNE ARUNDEL COUNTY --- 1.0 NNW CAPE ST CLAIRE [39.04, -76.42]</b>				
	07/18/12 16:20 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/18/12 16:20 EST		0	Source: Public
Two snapped trees and a large branch were down at a residence.				
<b>A surface trough combined with moderate instability caused showers and thunderstorms to develop. There was enough instability for thunderstorms to produce damaging wind gusts and large hail.</b>				

## Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>PRINCE GEORGE'S COUNTY --- 0.9 SW ALEXANDRIA JCT [38.94, -76.94], 0.8 SE RIVERDALE [38.94, -76.94], 0.6 SW ALEXANDRIA JCT [38.94, -76.94], 0.7 SSW ALEXANDRIA JCT [38.94, -76.94]</b>				
	07/18/12 16:58 EST		0	Flood (due to Heavy Rain)
	07/18/12 21:00 EST		0	Source: Trained Spotter
Ponded water of over 1 foot deep was observed on Upshur Street between Kenilworth Avenue and Route 1 in Bladensburg.				
<b>A nearly stationary low pressure trough induced scattered slow-moving thunderstorms during the afternoon area across the suburbs of Washington DC. Minor flooding was observed in Prince Georges County.</b>				
<b>BALTIMORE COUNTY --- 0.4 NNE SPARROWS PT [39.27, -76.58]</b>				
	07/19/12 18:06 EST		0	Thunderstorm Wind (MG 51 kt)
	07/19/12 18:06 EST		0	Source: Mesonet
A wind gust of 59 mph was measured at Fells Point.				
<b>MONTGOMERY COUNTY --- 1.1 NNW CLARKSBURG [39.24, -77.29]</b>				
	07/19/12 20:23 EST		2K	Thunderstorm Wind (EG 52 kt)
	07/19/12 20:23 EST		0	Source: Public
Trees were down and damage was done to a pavilion on the 23000 Block of Frederick Road.				
<b>MONTGOMERY COUNTY --- 1.0 SSW MONTGOMERY VLG [39.16, -77.19]</b>				
	07/19/12 20:36 EST		0	Thunderstorm Wind (EG 52 kt)
	07/19/12 20:36 EST		0	Source: Unknown
A wind gust around 60 mph was estimated based on thunderstorm wind damage nearby.				
<b>MONTGOMERY COUNTY --- 0.7 N RANDOLPH HILLS [39.09, -77.13]</b>				
	07/19/12 20:44 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/19/12 20:44 EST		0	Source: State Official
A large tree was down on Norbeck Road near Gude Drive.				
<b>MONTGOMERY COUNTY --- 0.9 WSW GEORGETOWN JCT [38.99, -77.06]</b>				
	07/19/12 20:57 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/19/12 20:57 EST		0	Source: Department of Highways
A tree was down on East West Highway near Beach Drive.				
<b>A surface trough combined with moderate instability caused showers and thunderstorms to develop. There was enough instability for some thunderstorms to produce damaging wind gusts.</b>				
<b>BALTIMORE COUNTY --- 1.4 N SPARROWS PT [39.29, -76.58], 1.5 N SPARROWS PT [39.29, -76.58], 1.8 N SPARROWS PT [39.30, -76.58], 1.9 N SPARROWS PT [39.30, -76.58]</b>				
	07/19/12 18:20 EST		0	Flash Flood (due to Heavy Rain)
	07/19/12 20:20 EST		0	Source: Broadcast Media
Two feet of water was flowing down North Kenwood Avenue. A nearby rain gauge tallied 3.30 inches of rain.				
<b>BALTIMORE COUNTY --- 2.3 NNW SPARROWS PT [39.30, -76.60], 2.2 NNW SPARROWS PT [39.30, -76.60], 2.1 NNW SPARROWS PT [39.30, -76.60], 2.4 NNW SPARROWS PT [39.30, -76.60]</b>				
	07/19/12 18:24 EST		0	Flash Flood (due to Heavy Rain)
	07/19/12 20:24 EST		0	Source: State Official
Flash flooding stranded vehicles on North Caroline Street near East Madison Street. A nearby rain gauge recorded 3.27 inches.				
<b>FREDERICK COUNTY --- 0.9 SW URBANA [39.32, -77.36], 1.8 W URBANA [39.33, -77.38], 1.2 WNW URBANA [39.34, -77.37], 0.7 SE URBANA [39.32, -77.34]</b>				
	07/19/12 20:47 EST		0	Flood (due to Heavy Rain)
	07/19/12 23:45 EST		0	Source: Trained Spotter



## Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Small creeks and streams exceeded their banks near the intersection of Route 80 and Interstate 270.

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**CARROLL COUNTY --- 0.7 S WESTMINSTER ARPT [39.59, -77.00], 0.4 SSW WESTMINSTER ARPT [39.59, -77.00], 0.5 SE WESTMINSTER ARPT [39.59, -76.99], 0.6 NNE WESTMINSTER [39.59, -77.00]**

07/19/12 21:12 EST	0	Flood (due to Heavy Rain)
07/19/12 23:45 EST	0	Source: Public

One to two feet of water was ponded on the eastbound lane of Route 140 near Route 97. A nearby rain gauge observed 3.25 inches.

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**CARROLL COUNTY --- 0.7 S WESTMINSTER [39.57, -77.00], 1.0 S WESTMINSTER [39.57, -77.00], 1.1 SSW WESTMINSTER [39.56, -77.01], 0.8 SSW WESTMINSTER [39.57, -77.00]**

07/19/12 21:25 EST	0	Flash Flood (due to Heavy Rain)
07/19/12 23:25 EST	0	Source: Public

Flash flooding stalled cars at Bond Street and Route 27. A nearby rain gauge observed 2.40 inches.

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**CARROLL COUNTY --- 1.1 SSE CRANBERRY STATION [39.57, -76.97], 1.3 SE CRANBERRY STATION [39.57, -76.97], 1.4 SSE CRANBERRY STATION [39.56, -76.97], 1.1 S CRANBERRY STATION [39.56, -76.98]**

07/19/12 21:40 EST	0	Flash Flood (due to Heavy Rain)
07/19/12 23:45 EST	0	Source: 911 Call Center

Route 140 at Malcolm Drive was closed due to high water.

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**BALTIMORE COUNTY --- 0.9 NW SPARROWS PT [39.28, -76.59], 1.3 NW SPARROWS PT [39.28, -76.60], 1.4 NW SPARROWS PT [39.28, -76.60], 1.2 NW SPARROWS PT [39.28, -76.59]**

07/19/12 22:53 EST	0	Flash Flood (due to Heavy Rain)
07/20/12 00:53 EST	0	Source: State Official

Flash flooding forced the closure of Aliceanna Street at South Caroline Street. A weather station nearby reported 3.00 inches of rain.

**Low pressure drifted eastward across the Mid-Atlantic along a stalled front. Afternoon showers and thunderstorms erupted in a highly moist and unstable atmosphere. Heavy rain associated with some of the activity caused flash flooding. Observed rainfall amounts were as high as 4.30 inches in Baltimore County.**

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**BALTIMORE COUNTY --- 0.3 SE PHOENIX [39.52, -76.62]**

07/24/12 15:23 EST	0	Thunderstorm Wind (EG 52 kt)
07/24/12 15:23 EST	0	Source: Emergency Manager

A tree was down at Phoenix and Carroll Road.

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**FREDERICK COUNTY --- 1.6 E MIDDLEPOINT [39.57, -77.50]**

07/24/12 15:25 EST	1K	Thunderstorm Wind (EG 61 kt)
07/24/12 15:25 EST	0	Source: State Official

A large Oak tree was split a few feet up from its base.

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**MONTGOMERY COUNTY --- 1.4 ESE CLARKSBURG [39.22, -77.26]**

07/24/12 16:30 EST	0	Thunderstorm Wind (EG 52 kt)
07/24/12 16:30 EST	0	Source: Trained Spotter

Branches were down due to thunderstorm wind gusts.

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**BALTIMORE COUNTY --- 0.9 N FULLERTON [39.38, -76.52]**

07/24/12 16:34 EST	1K	Thunderstorm Wind (EG 52 kt)
07/24/12 16:34 EST	0	Source: Trained Spotter

A tree was down along Route 43 near the Baltimore Beltway.

**A surface trough along with an upper-level disturbance triggered some showers and thunderstorms. There was enough instability and flow aloft for a few thunderstorms to produce damaging winds.**

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(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.

## Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>MARY'S, (MD-Z018) CALVERT</b>				
	07/26/12 11:30 EST		0	Heat
	07/26/12 18:00 EST		0	
<b>(MD-Z011) SOUTHERN BALTIMORE</b>				
	07/26/12 15:00 EST		0	Excessive Heat
	07/26/12 18:00 EST		0	
<b>High pressure off the coast allowed for a hot and humid air mass to remain over the Mid-Atlantic.</b>				
<b>ALLEGANY COUNTY --- 4.4 WSW PINEY GROVE [39.68, -78.46]</b>				
	07/26/12 19:00 EST		0	Thunderstorm Wind (EG 52 kt)
	07/26/12 19:00 EST		0	Source: State Official
A tree was down due to thunderstorm wind gusts.				
<b>BALTIMORE COUNTY --- 0.7 ESE FOWBLESBURG [39.55, -76.84]</b>				
	07/26/12 20:08 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/26/12 20:08 EST		0	Source: State Official
A tree was down on route 30.				
<b>BALTIMORE COUNTY --- 0.4 NE COCKEYSVILLE [39.48, -76.64]</b>				
	07/26/12 20:40 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/26/12 20:40 EST		0	Source: State Official
A tree was down at Railroad Avenue and York Road.				
<b>HARFORD COUNTY --- 1.2 SSW BAGLEY [39.48, -76.41]</b>				
	07/26/12 20:59 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/26/12 20:59 EST		0	Source: Emergency Manager
A tree was down on Reckord Road between Harford Road and Bel Air Road.				
<b>HARFORD COUNTY --- 0.6 N BENSON [39.51, -76.38]</b>				
	07/26/12 21:01 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/26/12 21:01 EST		0	Source: Emergency Manager
A tree was down at U.S. Route 1 and Harford Road.				
<b>A cold front passed through the area on the 26th. Hot and humid conditions ahead of the front caused moderate amounts of instability. The cold front triggered showers and thunderstorms. There was enough instability for a few thunderstorms to produce damaging wind gusts.</b>				
<b>HARFORD COUNTY --- 1.0 NNE ABERDEEN PROVING GRN [39.48, -76.11]</b>				
	07/28/12 15:45 EST		0	Thunderstorm Wind (EG 52 kt)
	07/28/12 15:45 EST		0	Source: Public
A large limb was down along Plum Point Loop.				
<b>CALVERT COUNTY --- 0.5 NNW CHANEYVILLE [38.69, -76.65]</b>				
	07/28/12 17:38 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/28/12 17:38 EST		0	Source: State Official
A tree was down along Chaneyville Road at South Flint Hill Road.				
<b>CALVERT COUNTY --- 1.5 NNE PARIS [38.72, -76.57]</b>				
	07/28/12 17:39 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/28/12 17:39 EST		0	Source: State Official
A tree was down along Boyds Turn Road.				

## Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>ANNE ARUNDEL COUNTY --- 0.4 SE DRURY [38.82, -76.69]</b>				
	07/28/12 19:00 EST		0	Hail (1.75 in)
	07/28/12 19:00 EST		0	Source: Trained Spotter
Golf ball sized hail was reported near Upper Marlboro.				
<b>PRINCE GEORGE'S COUNTY --- 0.5 E FORESTVILLE [38.83, -76.87]</b>				
	07/28/12 19:17 EST		0	Thunderstorm Wind (MG 52 kt)
	07/28/12 19:17 EST		0	Source: AWOS
A wind gust of 60 mph was measured.				
A cold front along with an upper-level trough moved into the area on the 28th. Showers and thunderstorms developed near the cold front. There was enough instability from cooler air aloft associated with the upper-level trough for thunderstorms to produce damaging wind gusts.				
<b>VIRGINIA, North</b>				
<b>AUGUSTA COUNTY --- 0.3 WSW AUGUSTA SPGS [38.10, -79.33]</b>				
	07/03/12 14:06 EST		0	Hail (1.00 in)
	07/03/12 14:06 EST		0	Source: Public
Quarter sized hail was reported.				
<b>FREDERICK COUNTY --- 1.0 ESE GAINESBORO [39.28, -78.25]</b>				
	07/03/12 18:04 EST		1K	Thunderstorm Wind (EG 56 kt)
	07/03/12 18:04 EST		0	Source: State Official
A tree was down along north Frederick Pike near Gainesboro.				
<b>FREDERICK COUNTY --- 1.6 NNW GAINESBORO [39.30, -78.28]</b>				
	07/03/12 18:06 EST		1K	Thunderstorm Wind (EG 56 kt)
	07/03/12 18:06 EST		0	Source: State Official
A tree was down near north Frederick Pike and Ebenezer Church Road.				
<b>FREDERICK COUNTY --- 1.0 SW GREEN SPG [39.29, -78.18]</b>				
	07/03/12 18:17 EST		1K	Thunderstorm Wind (EG 56 kt)
	07/03/12 18:17 EST		0	Source: State Official
A tree was down at Cedar Grove Road and Mountain Laurel Lane.				
<b>CLARKE COUNTY --- 1.0 S SWIMLEY [39.23, -78.00]</b>				
	07/03/12 18:39 EST		2K	Thunderstorm Wind (EG 61 kt)
	07/03/12 18:39 EST		0	Source: Public
Trees were down along Old Charles Town Road.				
<b>CLARKE COUNTY --- 1.9 S SWIMLEY [39.22, -78.00]</b>				
	07/03/12 18:40 EST		2K	Thunderstorm Wind (EG 61 kt)
	07/03/12 18:40 EST		0	Source: Public
Trees were down along Withers Larue Road.				
<b>LOUDOUN COUNTY --- 0.6 NNW CLARKES GAP [39.14, -77.60]</b>				
	07/03/12 19:12 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/03/12 19:12 EST		0	Source: NWS Employee
A large limb was down along Harry Byrd Highway.				

## Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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An upper-level disturbance triggered a few showers and thunderstorms. There was enough instability from a hot and humid air mass for a few thunderstorms to produce damaging wind gusts and large hail.

(VA-Z037) ALBEMARLE, (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

07/04/12 12:00 EST	0	Heat
07/04/12 17:00 EST	0	

Upper-level high pressure built overhead while surface high pressure moved off the coast. A southerly flow combined with sunshine and subsidence for hot and humid conditions.

**ALBEMARLE COUNTY --- 0.8 NW CROZET [38.08, -78.71]**

07/04/12 15:45 EST	0	Hail (1.00 in)
07/04/12 15:45 EST	0	Source: Trained Spotter

Quarter sized hail was reported.

**ALBEMARLE COUNTY --- 0.8 NW CROZET [38.08, -78.71]**

07/04/12 15:45 EST	0	Thunderstorm Wind (EG 52 kt)
07/04/12 15:45 EST	0	Source: Public

A large tree was down and heavy pool furniture was moved due to thunderstorm winds.

**ALBEMARLE COUNTY --- 1.3 WNW CROZET [38.07, -78.72]**

07/04/12 15:45 EST	0	Hail (1.00 in)
07/04/12 15:45 EST	0	Source: Public

Quarter sized hail was reported.

**NELSON COUNTY --- 0.3 SE AFTON [38.03, -78.85]**

07/04/12 16:23 EST	0	Hail (1.00 in)
07/04/12 16:23 EST	0	Source: Public

Hail up to the size of quarters was reported.

**NELSON COUNTY --- 0.3 SE AFTON [38.03, -78.85]**

07/04/12 16:23 EST	0	Thunderstorm Wind (EG 52 kt)
07/04/12 16:23 EST	0	Source: Public

Wind gusts were estimated to be around 60 mph.

**NELSON COUNTY --- 1.1 SSE LOVINGSTON [37.76, -78.87]**

07/04/12 17:34 EST	1K	Thunderstorm Wind (EG 56 kt)
07/04/12 17:34 EST	0	Source: State Official

A tree was down near James River Road and Front Street.

**NELSON COUNTY --- SHIPMAN [37.72, -78.85]**

07/04/12 17:43 EST	0	Thunderstorm Wind (EG 56 kt)
07/04/12 17:43 EST	0	Source: State Official

Trees were down near James River Road and Oak Ridge Road.

**FREDERICK COUNTY --- 1.9 NE WHITACRE [39.35, -78.31]**

07/04/12 19:50 EST	1K	Thunderstorm Wind (EG 61 kt)
07/04/12 19:50 EST	0	Source: Trained Spotter

Multiple trees were down near North Frederick Pike and U.S. 50.

**FAUQUIER COUNTY --- 2.2 SSE DELAPLANE [38.89, -77.91]**

## Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/04/12 20:54 EST		0	Thunderstorm Wind (EG 52 kt)
	07/04/12 20:54 EST		0	Source: State Official
A tree was down near Grove Lane near Ashville due to strong thunderstorm winds.				
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<b>FAUQUIER COUNTY --- 2.2 SSW DELAPLANE [38.89, -77.93]</b>				
	07/04/12 20:55 EST		0	Thunderstorm Wind (EG 52 kt)
	07/04/12 20:55 EST		0	Source: State Official
A tree was down along Cobbler Mountain Road near Ashville.				
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<b>FAUQUIER COUNTY --- 0.4 SE MARSHALL [38.87, -77.84]</b>				
	07/04/12 21:01 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/04/12 21:01 EST		0	Source: State Official
A tree was down near East Main Street and Winchester Road.				
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<b>LOUDOUN COUNTY --- 0.7 WNW MIDDLEBURG [38.97, -77.78]</b>				
	07/04/12 21:04 EST		0	Thunderstorm Wind (EG 52 kt)
	07/04/12 21:04 EST		0	Source: Trained Spotter
A tree limb was down.				
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<b>FAUQUIER COUNTY --- 2.0 ESE BETHEL [38.75, -77.79]</b>				
	07/04/12 21:31 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/04/12 21:31 EST		0	Source: State Official
A trees was down across Airlie Road north of Warrenton.				
<hr/>				
<b>FAUQUIER COUNTY --- 1.6 NE MEETZE [38.70, -77.73]</b>				
	07/04/12 21:35 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/04/12 21:35 EST		0	Source: State Official
A tree was down near Old Auburn Road and Twin Polar Lane.				
<b>An upper-level disturbance passed through the area on the 4th. High amounts of instability combined with forcing from the disturbance for showers and thunderstorms to develop. Some thunderstorms produced damaging wind gusts and large hail.</b>				
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<b>PRINCE WILLIAM COUNTY --- 0.8 NNW (NYG)MCAS QUANTICO [38.51, -77.30]</b>				
	07/05/12 01:53 EST		0	Thunderstorm Wind (MG 53 kt)
	07/05/12 01:53 EST		0	Source: AWOS
A wind gust of 61 mph was measured at Quantico.				
<hr/>				
<b>PRINCE WILLIAM COUNTY --- 0.8 NNW (NYG)MCAS QUANTICO [38.51, -77.30]</b>				
	07/05/12 02:02 EST		0	Thunderstorm Wind (MG 59 kt)
	07/05/12 02:02 EST		0	Source: AWOS
A wind gust of 68 mph was measured at Quantico.				
<b>An upper-level disturbance combined with moderate instability to trigger showers and thunderstorms during the 5th. A couple thunderstorms produced damaging wind gusts.</b>				
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<b>(VA-Z037) ALBEMARLE, (VA-Z050) ORANGE, (VA-Z052) PRINCE WILLIAM, (VA-Z055) STAFFORD, (VA-Z056) SPOTSYLVANIA, (VA-Z057) KING GEORGE</b>				
	07/05/12 11:00 EST		0	Heat
	07/05/12 18:00 EST		0	
Upper-level high pressure built overhead while surface high pressure moved off the coast. A southerly flow combined with sunshine and subsidence for hot and humid conditions.				
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<b>(VA-Z037) ALBEMARLE, (VA-Z038) GREENE, (VA-Z050) ORANGE</b>				

## Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/06/12 14:00 EST		0	Heat
	07/06/12 18:00 EST		0	

Upper-level high provided subsidence over the area while a southerly flow around high pressure over the Atlantic caused high humidity. Hot and humid conditions caused high heat index values during the 6th.

**(VA-Z027) SHENANDOAH, (VA-Z028) FREDERICK, (VA-Z030) WARREN, (VA-Z031) CLARKE**

	07/07/12 14:00 EST		0	Heat
	07/07/12 17:00 EST		0	

**(VA-Z052) PRINCE WILLIAM, (VA-Z055) STAFFORD, (VA-Z057) KING GEORGE**

	07/08/12 11:00 EST		0	Excessive Heat
	07/08/12 13:00 EST		0	

Upper-level high pressure built overhead while surface high pressure moved off the coast. A southerly flow combined with sunshine and subsidence for hot and humid conditions.

**(VA-Z036) NELSON, (VA-Z037) ALBEMARLE, (VA-Z038) GREENE, (VA-Z039) MADISON, (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**

	07/08/12 10:00 EST		0	Heat
	07/08/12 17:00 EST		0	

Upper-level high pressure built overhead while surface high pressure moved off the coast. A southerly flow combined with sunshine and subsidence for hot and humid conditions.

**LOUDOUN COUNTY --- 0.8 NNE CLARKES GAP [39.14, -77.59]**

	07/08/12 14:05 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/08/12 14:05 EST		0	Source: Public

Trees were down and heavy decorative Urn was blown over.

**CLARKE COUNTY --- 4.0 ESE MILLWOOD [39.04, -77.97]**

	07/08/12 14:31 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/08/12 14:31 EST		0	Source: State Official

A tree was down on the 1000 Block of Mt. Carmel Road.

**FAUQUIER COUNTY --- 1.0 SE UPPERVILLE [38.99, -77.87]**

	07/08/12 14:38 EST		0	Thunderstorm Wind (EG 52 kt)
	07/08/12 14:38 EST		0	Source: State Official

Large tree limbs were down on Route 50 near Horsefields Lane.

**FREDERICK COUNTY --- 1.2 WSW EBENEZER [39.29, -78.37]**

	07/08/12 14:44 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/08/12 14:44 EST		0	Source: Emergency Manager

A tree was down on US Highway 50 near the West Virginia state line.

**FAUQUIER COUNTY --- 2.5 SSW DELAPLANE [38.89, -77.93]**

	07/08/12 14:48 EST		5K	Thunderstorm Wind (EG 52 kt)
	07/08/12 14:48 EST		0	Source: Trained Spotter

Numerouys trees and power lines were down in the Delaplane area and towards Marshall.

**FAIRFAX COUNTY --- 1.1 N SUNSET HILLS [38.97, -77.35]**

	07/08/12 14:53 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/08/12 14:53 EST		0	Source: State Official

A tree was down at Vantage Hill Road and Mediterranean Court.

## Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>AUGUSTA COUNTY --- 1.1 SSE GROTTOS [38.26, -78.82]</b>				
	07/08/12 15:02 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/08/12 15:02 EST		0	Source: State Official
A tree was blocking the road on East Side Highway.				
<b>FAUQUIER COUNTY --- 1.1 NE CRESTHILL [38.78, -77.99]</b>				
	07/08/12 15:11 EST		0	Hail (1.00 in)
	07/08/12 15:11 EST		0	Source: Public
Quarter sized hail was reported.				
<b>FAUQUIER COUNTY --- 1.1 NE CRESTHILL [38.78, -77.99]</b>				
	07/08/12 15:11 EST		1K	Thunderstorm Wind (EG 56 kt)
	07/08/12 15:11 EST		0	Source: Public
Trees were down near Leeds Manor Road and Crest Hill Road.				
<b>FAUQUIER COUNTY --- 2.0 SSE HUME [38.80, -77.99]</b>				
	07/08/12 15:15 EST		0	Hail (1.75 in)
	07/08/12 15:15 EST		0	Source: Public
Golf ball sized hail was reported near Cresthill.				
<b>FAUQUIER COUNTY --- 2.0 SSE OLD TAVERN [38.80, -77.79]</b>				
	07/08/12 15:15 EST		5K	Thunderstorm Wind (EG 56 kt)
	07/08/12 15:15 EST		0	Source: Public
Dozens of trees and large limbs were down on property near Leeds Manor Road.				
<b>RAPPAHANNOCK COUNTY --- 4.7 E FLINT HILL [38.78, -78.03]</b>				
	07/08/12 15:21 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/08/12 15:21 EST		0	Source: State Official
A tree was down across North Poes Road.				
<b>FAIRFAX COUNTY --- 0.6 NE TREMONT [38.86, -77.21]</b>				
	07/08/12 15:22 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/08/12 15:22 EST		0	Source: Department of Highways
A tree was down.				
<b>FAIRFAX COUNTY --- 1.3 ESE ILDA [38.82, -77.23]</b>				
	07/08/12 15:22 EST		10K	Thunderstorm Wind (EG 52 kt)
	07/08/12 15:22 EST		0	Source: Emergency Manager
A large tree fell onto a house on Toll House Road.				
<b>FAUQUIER COUNTY --- 2.0 SSE HUME [38.80, -77.99]</b>				
	07/08/12 15:22 EST		2K	Thunderstorm Wind (EG 56 kt)
	07/08/12 15:22 EST		0	Source: Public
Dozens of trees and large limbs were down on property near Leeds Manor Road.				
<b>RAPPAHANNOCK COUNTY --- 2.2 NNE BEU VENUE [38.75, -78.06]</b>				
	07/08/12 15:28 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/08/12 15:28 EST		0	Source: State Official
A tree was down over Grimsley Road.				
<b>FAIRFAX COUNTY --- 0.7 WSW SPRINGFIELD ESTATES [38.77, -77.19]</b>				

## Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/08/12 15:30 EST		15K	Thunderstorm Wind (EG 52 kt)
	07/08/12 15:30 EST		0	Source: Emergency Manager
A large tree fell onto a house and a car.				
<hr/>				
<b>CULPEPER COUNTY --- 0.7 S CULPEPER [38.47, -78.00]</b>				
	07/08/12 15:32 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/08/12 15:32 EST		0	Source: State Official
Trees were down due to thunderstorm winds.				
<hr/>				
<b>RAPPAHANNOCK COUNTY --- 2.4 NE PEOLA MILLS [38.55, -78.23]</b>				
	07/08/12 15:32 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/08/12 15:32 EST		0	Source: State Official
A tree was blocking Route 231 near the Madison County Line.				
<hr/>				
<b>ALBEMARLE COUNTY --- 0.2 SSE DOYLESVILLE [38.15, -78.67]</b>				
	07/08/12 15:35 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/08/12 15:35 EST		0	Source: State Official
Several trees were down along Browns Gap Turnpike.				
<hr/>				
<b>RAPPAHANNOCK COUNTY --- 0.9 NNE BEU VENUE [38.73, -78.07]</b>				
	07/08/12 15:35 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/08/12 15:35 EST		0	Source: State Official
Trees were down on Ben Venue Road.				
<hr/>				
<b>PRINCE WILLIAM COUNTY --- 0.8 E GREENWICH [38.75, -77.63]</b>				
	07/08/12 15:37 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/08/12 15:37 EST		0	Source: Department of Highways
A large tree was down on the road.				
<hr/>				
<b>AUGUSTA COUNTY --- 2.1 SSE DOOMS [38.09, -78.85]</b>				
	07/08/12 15:39 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/08/12 15:39 EST		0	Source: State Official
A tree was down on Sandy Ridge road and a tree fell into power lines on Dooms Crossing Road.				
<hr/>				
<b>STAFFORD COUNTY --- 1.7 WSW ROSEVILLE [38.46, -77.55]</b>				
	07/08/12 15:47 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/08/12 15:47 EST		0	Source: State Official
A tree was down on Poplar Road.				
<hr/>				
<b>ALBEMARLE COUNTY --- 1.1 NNE IVY [38.06, -78.59]</b>				
	07/08/12 15:53 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/08/12 15:53 EST		0	Source: State Official
Numerous trees were down between the 1000 and 1500 block of Owensville Road.				
<hr/>				
<b>PRINCE WILLIAM COUNTY --- 1.8 NNW MINNIEVILLE [38.66, -77.36]</b>				
	07/08/12 15:53 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/08/12 15:53 EST		0	Source: Department of Highways
Trees were down.				
<hr/>				
<b>PRINCE WILLIAM COUNTY --- 0.9 E BETHEL [38.65, -77.30]</b>				
	07/08/12 15:58 EST		2K	Thunderstorm Wind (EG 52 kt)
	07/08/12 15:58 EST		0	Source: Public



## Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Trees were down on the Prince William County Parkway near Smoketown Road.				
<b>RAPPAHANNOCK COUNTY --- 1.8 NE LAUREL MILLS [38.67, -78.08]</b>				
	07/08/12 16:01 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/08/12 16:01 EST		0	Source: State Official
A tree was down along Richmond Road.				
<b>WINCHESTER (C) COUNTY --- 3.2 NNE WINCHESTER [39.17, -78.16]</b>				
	07/08/12 16:05 EST		0	Hail (1.00 in)
	07/08/12 16:05 EST		0	Source: Public
Quarter sized hail was reported.				
<b>CLARKE COUNTY --- 3.6 NNW BOYCE [39.15, -78.07]</b>				
	07/08/12 16:10 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/08/12 16:10 EST		0	Source: State Official
A tree was down at Salem Church Road and Senseny Road.				
<b>RAPPAHANNOCK COUNTY --- 0.8 SSE LAUREL MILLS [38.64, -78.10]</b>				
	07/08/12 16:10 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/08/12 16:10 EST		0	Source: State Official
Two trees were down along Laurel Mills Road.				
<b>CLARKE COUNTY --- 4.3 NW BERRYVILLE [39.19, -78.03]</b>				
	07/08/12 16:16 EST		0	Hail (1.00 in)
	07/08/12 16:16 EST		0	Source: Amateur Radio
Quarter sized hail was reported.				
<b>ALBEMARLE COUNTY --- 1.0 NNE NORTH GARDEN [37.94, -78.64]</b>				
	07/08/12 16:18 EST		1K	Thunderstorm Wind (EG 56 kt)
	07/08/12 16:18 EST		0	Source: State Official
Trees were down on Plank road and Edge Valley Road.				
<b>CLARKE COUNTY --- 1.2 WNW BERRYVILLE [39.16, -77.99]</b>				
	07/08/12 16:18 EST		0	Hail (1.00 in)
	07/08/12 16:18 EST		0	Source: Trained Spotter
Quarter sized hail was reported.				
<b>SPOTSYLVANIA COUNTY --- 0.9 SW CONCORD HGTS [38.26, -77.49]</b>				
	07/08/12 16:20 EST		0	Thunderstorm Wind (EG 70 kt)
	07/08/12 16:20 EST	7	0	Source: NWS Storm Survey
A microburst with 80 mph westerly winds tore through an area three miles south of Fredericksburg. On Fleming Street between Lafayette Boulevard and Route 1, a roof was torn off a gym and the wall collapsed. There were seven injuries in the gym.				
<b>SPOTSYLVANIA COUNTY --- 1.0 SE FIVE MILE [38.27, -77.54]</b>				
	07/08/12 16:23 EST		0	Hail (1.00 in)
	07/08/12 16:23 EST		0	Source: Amateur Radio
Quarter sized hail was reported.				
<b>SPOTSYLVANIA COUNTY --- 0.9 SW CONCORD HGTS [38.26, -77.49]</b>				
	07/08/12 16:25 EST		0	Hail (1.75 in)
	07/08/12 16:25 EST		0	Source: Public
Golf ball sized hail was reported.				

## Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>SPOTSYLVANIA COUNTY --- 1.0 WSW CONCORD HGTS [38.26, -77.50]</b>				
	07/08/12 16:25 EST		5K	Thunderstorm Wind (EG 61 kt)
	07/08/12 16:25 EST		0	Source: Broadcast Media
Trees were uprooted on Jeff Davis Highway and Harrison Road.				
<b>FREDERICK COUNTY --- 0.2 NNE WINCHESTER ARPT [39.15, -78.15]</b>				
	07/08/12 16:27 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/08/12 16:27 EST		0	Source: Emergency Manager
A tree was down at the intersection of Sensory Road and Sensory Glen Drive.				
<b>WINCHESTER (C) COUNTY --- 3.2 NNE WINCHESTER [39.17, -78.16]</b>				
	07/08/12 16:27 EST		0	Thunderstorm Wind (EG 52 kt)
	07/08/12 16:27 EST		0	Source: Emergency Manager
A chimney was knocked off a house.				
<b>SPOTSYLVANIA COUNTY --- 1.6 SSE LEAVELLS [38.23, -77.51]</b>				
	07/08/12 16:28 EST		0	Hail (1.00 in)
	07/08/12 16:28 EST		0	Source: CoCoRaHS
Quarter sized hail was reported.				
<b>SPOTSYLVANIA COUNTY --- CONCORD HGTS [38.27, -77.48]</b>				
	07/08/12 16:29 EST		0	Hail (1.00 in)
	07/08/12 16:29 EST		0	Source: Trained Spotter
Quarter sized hail was reported.				
<b>SPOTSYLVANIA COUNTY --- 1.0 E FOUR MILE FORK [38.25, -77.46]</b>				
	07/08/12 16:32 EST		0	Hail (1.50 in)
	07/08/12 16:32 EST		0	Source: Public
Ping pong ball sized hail was reported.				
<b>SPOTSYLVANIA COUNTY --- 0.8 NNW NEW POST [38.24, -77.41]</b>				
	07/08/12 16:36 EST		0	Hail (1.25 in)
	07/08/12 16:36 EST		0	Source: Amateur Radio
Half dollar sized hail was reported.				
<b>KING GEORGE COUNTY --- 0.4 NNE DOGUE [38.23, -77.22]</b>				
	07/08/12 16:50 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/08/12 16:50 EST		0	Source: State Official
A tree was down on Port Conway Road.				
<b>FREDERICK COUNTY --- 1.4 W MT WILLIAMS [39.15, -78.36]</b>				
	07/08/12 22:13 EST		0	Thunderstorm Wind (EG 52 kt)
	07/08/12 22:13 EST		0	Source: Public
Branches and limbs were down.				
<b>WARREN COUNTY --- 0.4 SW BETHEL [38.92, -78.28]</b>				
	07/08/12 22:44 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/08/12 22:44 EST		0	Source: Public
A tree top was snapped off and trees were uprooted nearby.				
<b>CULPEPER COUNTY --- 3.6 NNW JEFFERSONTON [38.67, -77.94]</b>				

## Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/09/12 00:02 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/09/12 00:02 EST		0	Source: State Official
A tree was down along Route 211.				
<hr/>				
<b>FAUQUIER COUNTY --- 0.8 SSE TURNBULL [38.67, -77.84]</b>				
	07/09/12 00:07 EST		2K	Thunderstorm Wind (EG 56 kt)
	07/09/12 00:07 EST		0	Source: Public
Numerous trees were down due to thunderstorm winds.				
<b>A cold front passed through the area on the 8th. High heat and humidity ahead of the boundary caused plenty of instability. The high instability combined with forcing from the front, causing thunderstorms to produce damaging winds large hail.</b>				
<hr/>				
<b>FAIRFAX COUNTY --- 0.5 E MC LEAN HAMLET [38.93, -77.22], 0.2 NNW MC LEAN HAMLET [38.93, -77.23], 0.4 N MC LEAN HAMLET [38.94, -77.23], 0.9 WNW LEWINSVILLE [38.94, -77.21]</b>				
	07/10/12 19:00 EST		0	Flash Flood (due to Heavy Rain)
	07/10/12 21:00 EST		0	Source: Broadcast Media
Flash Flooding occurred on the Dulles Toll Road near the Spring Hill Road exit.				
<b>A cold front move through the Mid-Atlantic during the evening hours. Showers and thunderstorms along the front had very high rainfall rates. Enough rain fell in the western suburbs of Washington DC to induce an isolated flash flood in Fairfax County from rainfall amounts of up to 2.84 inches.</b>				
<hr/>				
<b>HARRISONBURG (C) COUNTY --- 0.7 S HARRISONBURG [38.44, -78.87], 1.1 S HARRISONBURG [38.43, -78.87], 1.2 S HARRISONBURG [38.43, -78.87], 0.9 SSW HARRISONBURG [38.44, -78.88]</b>				
	07/14/12 16:00 EST		0	Flash Flood (due to Heavy Rain)
	07/14/12 18:00 EST		0	Source: Public
Football field of James Madison University and adjacent campus were inundated by flash flooding.				
<hr/>				
<b>HARRISONBURG (C) COUNTY --- 2.1 SSE HARRISONBURG [38.42, -78.86], 2.0 SSE HARRISONBURG [38.42, -78.86], 2.0 SSE HARRISONBURG [38.42, -78.85], 2.1 SSE HARRISONBURG [38.42, -78.85]</b>				
	07/14/12 16:00 EST		0	Flash Flood (due to Heavy Rain)
	07/14/12 18:00 EST		0	Source: State Official
Two vehicles were submerged to depth of windows with occupants trapped on Reservoir Street at Lucky Drive.				
<hr/>				
<b>FREDERICKSBURG (C) COUNTY --- 1.7 SSW FREDERICKSBURG [38.28, -77.48], 1.6 SSW FREDERICKSBURG [38.28, -77.48], 1.5 SSW FREDERICKSBURG [38.28, -77.48], 1.5 SSW FREDERICKSBURG [38.28, -77.48]</b>				
	07/14/12 17:00 EST		0	Flash Flood (due to Heavy Rain)
	07/14/12 19:00 EST		0	Source: State Official
Flash flooding forced the closure of the 200 block of Wilderness Lane.				
<hr/>				
<b>FREDERICKSBURG (C) COUNTY --- 0.8 SE FREDERICKSBURG [38.29, -77.46], 0.9 SSE FREDERICKSBURG [38.29, -77.46], 0.7 SSW FREDERICKSBURG [38.29, -77.47], 0.6 S FREDERICKSBURG [38.29, -77.47]</b>				
	07/14/12 17:25 EST		0	Flash Flood (due to Heavy Rain)
	07/14/12 19:25 EST		0	Source: State Official
Flash flooding forced the closure of the 900 block of Blue Grey Parkway.				
<hr/>				
<b>FREDERICKSBURG (C) COUNTY --- 1.1 NNW FREDERICKSBURG ARPT [38.29, -77.45], 1.1 NNW FREDERICKSBURG ARPT [38.28, -77.46], 1.1 SE FREDERICKSBURG [38.29, -77.46], 1.1 SE FREDERICKSBURG [38.29, -77.46]</b>				
	07/14/12 17:25 EST		0	Flash Flood (due to Heavy Rain)
	07/14/12 19:25 EST		0	Source: State Official
Flash flooding forced the closure of the 800 block of Dixon Street and the 200 block of Howison Avenue.				
<hr/>				
<b>SPOTSYLVANIA COUNTY --- 0.9 ESE CONCORD HGTS [38.27, -77.46], 1.0 ESE CONCORD HGTS [38.27, -77.46], 1.0 SE CONCORD HGTS [38.26, -77.47], 0.9 SE CONCORD HGTS [38.26, -77.47]</b>				

## Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/14/12 17:30 EST		0	Flash Flood (due to Heavy Rain)
	07/14/12 19:30 EST		0	Source: State Official
Flash flooding forced the closure of Lansdowne Road.				
<b>A slow moving warm front was located across central Virginia. During the afternoon, showers and thunderstorms developed along and north of this feature. A very warm and moist atmosphere along with light winds throughout the atmosphere caused very high rainfall rates with slow storm motion. Flash flooding resulted.</b>				
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<b>CULPEPER COUNTY --- 1.0 SSW RICHARDSVILLE [38.39, -77.74]</b>				
	07/15/12 15:56 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/15/12 15:56 EST		0	Source: State Official
A tree was down along Halls Road.				
<hr/>				
<b>SPOTSYLVANIA COUNTY --- 2.4 WSW BELMONT [38.13, -77.91]</b>				
	07/15/12 17:55 EST		0	Thunderstorm Wind (EG 52 kt)
	07/15/12 17:55 EST		0	Source: Trained Spotter
Two trees were down along Route 719.				
<hr/>				
<b>SPOTSYLVANIA COUNTY --- 1.1 SE ALSOP [38.19, -77.64]</b>				
	07/15/12 18:42 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/15/12 18:42 EST		0	Source: Public
A tree was down along Lake Anna Parkway.				
<b>An upper-level trough combined with an unstable atmosphere to trigger showers and thunderstorms. A few thunderstorms produced damaging wind gusts.</b>				
<hr/>				
<b>(VA-Z052) PRINCE WILLIAM, (VA-Z053) FAIRFAX, (VA-Z054) ARLINGTON, (VA-Z055) STAFFORD, (VA-Z056) SPOTSYLVANIA, (VA-Z057) KING GEORGE</b>				
	07/18/12 11:00 EST		0	Heat
	07/18/12 17:00 EST		0	
High pressure off the coast allowed for a hot and humid air mass to remain over the Mid-Atlantic.				
<hr/>				
<b>AUGUSTA COUNTY --- 0.4 W LONE FOUNTAIN [38.25, -79.19]</b>				
	07/18/12 11:30 EST		0	Thunderstorm Wind (EG 52 kt)
	07/18/12 11:30 EST		0	Source: Trained Spotter
Branches were down blocking half of Route 250.				
<hr/>				
<b>ROCKINGHAM COUNTY --- 0.8 SSE BROADWAY [38.61, -78.80]</b>				
	07/18/12 12:15 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/18/12 12:15 EST		0	Source: Fire Department/Rescue
A tree fell onto a road in Broadway.				
<hr/>				
<b>FREDERICK COUNTY --- 1.2 NW HILLCREST [39.19, -78.22]</b>				
	07/18/12 12:19 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/18/12 12:19 EST		0	Source: State Official
A tree was down near the intersection of Round Hill Road and Limestone Lane.				
<hr/>				
<b>FREDERICK COUNTY --- 0.9 S FAWCETT GAP [39.12, -78.30]</b>				
	07/18/12 12:29 EST		0	Hail (1.00 in)
	07/18/12 12:29 EST		0	Source: Public
Quarter sized hail was reported.				
<hr/>				
<b>SHENANDOAH COUNTY --- 0.7 WNW CLARY [39.03, -78.38]</b>				

## Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/18/12 12:43 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/18/12 12:43 EST		0	Source: State Official
A tree was down on route 55 near Back Road.				
<hr/>				
<b>FREDERICK COUNTY --- 2.4 NE BURNING KNOLLS [39.19, -78.10]</b>				
	07/18/12 12:46 EST		1K	Thunderstorm Wind (EG 56 kt)
	07/18/12 12:46 EST		0	Source: State Official
Multiple trees were down on the 400 Block of Woods Mill Road.				
<hr/>				
<b>SHENANDOAH COUNTY --- 1.3 NE CLARY [39.04, -78.35]</b>				
	07/18/12 12:50 EST		0	Thunderstorm Wind (EG 56 kt)
	07/18/12 12:50 EST		0	Source: CoCoRaHS
Trees were uprooted due to thunderstorm wind gusts.				
<hr/>				
<b>FREDERICK COUNTY --- 1.7 NE GRAVEL SPGS [39.10, -78.45]</b>				
	07/18/12 13:28 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/18/12 13:28 EST		0	Source: State Official
A tree was down on Back Creek Road and Wardensville Pike.				
<hr/>				
<b>ROCKINGHAM COUNTY --- 0.9 SE RUTHERFORD [38.42, -78.82]</b>				
	07/18/12 15:05 EST		0	Thunderstorm Wind (EG 52 kt)
	07/18/12 15:05 EST		0	Source: Trained Spotter
A tree was down on Betts Road.				
<hr/>				
<b>ROCKINGHAM COUNTY --- 0.7 SW COOTES STORE [38.62, -78.86]</b>				
	07/18/12 16:47 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/18/12 16:47 EST		0	Source: State Official
Several trees were down onto State Route 613 between the 14000 and 18000 Block.				
<hr/>				
<b>SHENANDOAH COUNTY --- 0.6 SE READUS [38.84, -78.59]</b>				
	07/18/12 17:56 EST		3K	Thunderstorm Wind (EG 56 kt)
	07/18/12 17:56 EST		0	Source: Emergency Manager
A portion of a roof was blown off a barn on Readus Road.				
<b>A surface trough combined with moderate instability caused showers and thunderstorms to develop. There was enough instability for thunderstorms to produce damaging wind gusts and large hail.</b>				
<hr/>				
<b>MADISON COUNTY --- 0.9 SE CRIGLERSVILLE [38.46, -78.29], 0.6 ENE BANCO [38.45, -78.29], 0.2 NNW BAUCO [38.45, -78.28], 0.9 NNW BAUCO [38.46, -78.29]</b>				
	07/21/12 00:00 EST		0	Flash Flood (due to Heavy Rain)
	07/21/12 02:00 EST		0	Source: State Official
Route 231 was flooded near Old Blue Ridge Turnpike.				
<b>A slow moving cold front during the early morning hours produced showers and thunderstorms. High rainfall amounts in Madison County caused isolated flash flooding.</b>				
<hr/>				
<b>ROCKINGHAM COUNTY --- 1.8 SW ATHLONE [38.51, -78.72]</b>				
	07/24/12 13:27 EST		10K	Thunderstorm Wind (EG 56 kt)
	07/24/12 13:27 EST		0	Source: Emergency Manager
Two trees fell onto vehicles on Mountain Valley Road.				
<hr/>				
<b>ROCKINGHAM COUNTY --- 0.5 SSE ELKTON [38.41, -78.62]</b>				
	07/24/12 13:42 EST		2K	Thunderstorm Wind (EG 52 kt)
	07/24/12 13:42 EST		0	Source: State Official

## Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Several trees were down in Elkton.

A surface trough along with an upper-level disturbance triggered some showers and thunderstorms. There was enough instability and flow aloft for a few thunderstorms to produce damaging winds.

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(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-Z501) NORTHERN FAUQUIER, (VA-Z502) SOUTHERN FAUQUIER	07/26/12 11:30 EST	0	0	Heat
	07/26/12 18:00 EST	0	0	

High pressure off the coast allowed for a hot and humid air mass to remain over the Mid-Atlantic.

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### NELSON COUNTY --- 1.6 NE GLADSTONE [37.57, -78.85]

07/27/12 16:15 EST	0	0	Thunderstorm Wind (EG 52 kt)
07/27/12 16:15 EST	0	0	Source: State Official

A tree was down along Route 60 at Robertson Lane.

A trough triggered a few showers and thunderstorms. There was enough instability for an isolated thunderstorm to produce damaging wind gusts.

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### ALBEMARLE COUNTY --- 2.8 S IVY [38.01, -78.61]

07/30/12 17:12 EST	0	0	Thunderstorm Wind (EG 52 kt)
07/30/12 17:12 EST	0	0	Source: Public

Branches were down due to thunderstorm winds gusts.

A trough of low pressure triggered showers and thunderstorms. An isolated thunderstorm produced damaging wind gusts.

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### FAIRFAX COUNTY --- 0.7 NE CENTREVILLE [38.84, -77.41]

07/31/12 16:48 EST	0	0	Hail (1.00 in)
07/31/12 16:48 EST	0	0	Source: Trained Spotter

Quarter sized hail was reported.

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### CULPEPER COUNTY --- 0.2 SW JEFFERSONTON [38.63, -77.90]

07/31/12 18:09 EST	0	0	Hail (1.25 in)
07/31/12 18:09 EST	0	0	Source: Public

Half dollar sized hail was reported near Jeffersonton.

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### AUGUSTA COUNTY --- 0.3 NW MT ELLIOTT SPGS [38.13, -79.28]

07/31/12 18:51 EST	1K	0	Thunderstorm Wind (EG 52 kt)
07/31/12 18:51 EST	0	0	Source: State Official

A tree was down at the 800 block of Little Calf Pasture Highway.

A stalled boundary remained over the region on the 31st. Warm and humid air ahead of the boundary caused showers and thunderstorms to develop. There was enough instability for a few thunderstorms to produce damaging wind gusts and large hail.

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## WEST VIRGINIA, East

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### HAMPSHIRE COUNTY --- 3.8 WSW AUGUSTA [39.27, -78.71]

07/04/12 19:23 EST	1K	0	Thunderstorm Wind (EG 52 kt)
07/04/12 19:23 EST	0	0	Source: State Official

A tree was down on a power line along Heide Cooper Road.

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### HAMPSHIRE COUNTY --- 2.4 SE BLOOMER [39.35, -78.35]

## Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/04/12 19:40 EST		1K	Thunderstorm Wind (EG 56 kt)
	07/04/12 19:40 EST		0	Source: State Official
A tree was down along Bloomery Pike.				
<hr/>				
<b>HARDY COUNTY --- 0.9 ENE WARDENSVILLE [39.09, -78.59]</b>				
	07/04/12 19:56 EST		0	Thunderstorm Wind (EG 61 kt)
	07/04/12 19:56 EST		0	Source: COOP Observer
Wind gusts up to 70 mph were estimated.				
<hr/>				
<b>HARDY COUNTY --- 2.3 ENE WARDENSVILLE [39.09, -78.56]</b>				
	07/04/12 19:59 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/04/12 19:59 EST		0	Source: State Official
A large tree limb was blocking road along Route 55.				
An upper-level disturbance passed through the area on the 4th. High amounts of instability combined with forcing from the disturbance for showers and thunderstorms to develop. Some thunderstorms produced damaging wind gusts and large hail.				
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<b>(WV-Z050) HAMPSHIRE, (WV-Z051) MORGAN, (WV-Z052) BERKELEY, (WV-Z053) JEFFERSON, (WV-Z055) HARDY, (WV-Z502) EASTERN GRANT, (WV-Z504) EASTERN MINERAL</b>				
	07/07/12 14:00 EST		0	Heat
	07/07/12 17:00 EST		0	
Upper-level high pressure built overhead while surface high pressure moved off the coast. A southerly flow combined with sunshine and subsidence for hot and humid conditions.				
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<b>MORGAN COUNTY --- HOLTON [39.60, -78.07]</b>				
	07/08/12 12:20 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/08/12 12:20 EST		0	Source: Trained Spotter
Several trees were down due to thunderstorm winds.				
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<b>BERKELEY COUNTY --- 0.4 NE HEDGESVILLE [39.55, -77.99]</b>				
	07/08/12 12:36 EST		0	Thunderstorm Wind (EG 56 kt)
	07/08/12 12:36 EST		0	Source: Broadcast Media
Trees and wires were down.				
<hr/>				
<b>BERKELEY COUNTY --- 1.7 SSE SHANGHAI [39.41, -78.12]</b>				
	07/08/12 13:21 EST		1K	Thunderstorm Wind (EG 56 kt)
	07/08/12 13:21 EST		0	Source: Trained Spotter
Several trees were down.				
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<b>JEFFERSON COUNTY --- 0.5 NNW BOLIVAR [39.33, -77.75]</b>				
	07/08/12 13:26 EST		0	Hail (1.00 in)
	07/08/12 13:26 EST		0	Source: Public
Quarter sized hail was reported.				
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<b>MORGAN COUNTY --- 1.8 NW HOLTON [39.62, -78.09]</b>				
	07/08/12 14:19 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/08/12 14:19 EST		0	Source: Public
Large limbs were down.				
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<b>HAMPSHIRE COUNTY --- 0.9 NNW RIO [39.14, -78.68]</b>				
	07/08/12 14:46 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/08/12 14:46 EST		0	Source: Public
Large limbs were down.				

## Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>HARDY COUNTY --- 0.4 S PERRY [38.96, -78.68]</b>				
	07/08/12 23:09 EST		1K	Thunderstorm Wind (EG 56 kt)
	07/08/12 23:09 EST		0	Source: Public
Trees were down due to thunderstorm wind gusts.				
<b>A cold front passed through the area on the 8th. High heat and humidity ahead of the boundary caused plenty of instability. The high instability combined with forcing from the front, causing thunderstorms to produce damaging winds large hail.</b>				
<b>HARDY COUNTY --- 1.0 NW MC NEILL [39.14, -78.93]</b>				
	07/18/12 13:00 EST		2K	Thunderstorm Wind (EG 52 kt)
	07/18/12 13:00 EST		0	Source: State Official
Several trees were down just east of Old Fields.				
<b>HARDY COUNTY --- 3.5 ESE ROCKOAK [39.13, -78.67]</b>				
	07/18/12 13:26 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/18/12 13:26 EST		0	Source: State Official
A tree was down due to thunderstorm wind gusts near Rio.				
<b>BERKELEY COUNTY --- 0.5 NE MARTINSBURG [39.46, -77.96]</b>				
	07/18/12 13:52 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/18/12 13:52 EST		0	Source: Broadcast Media
A large tree was downed on South Queen Street.				
<b>HARDY COUNTY --- 3.0 ENE WARDENSVILLE [39.09, -78.55]</b>				
	07/18/12 13:55 EST		0	Hail (1.00 in)
	07/18/12 13:55 EST		0	Source: Public
Hail up to the size of quarters was reported.				
<b>HARDY COUNTY --- 6.0 SW BRAKE [38.81, -79.10]</b>				
	07/18/12 17:20 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/18/12 17:20 EST		0	Source: State Official
A few trees were down across Hinkle Mountain Road near the intersection of County Route 7.				
<b>PENDLETON COUNTY --- 1.1 WSW FRANKLIN [38.64, -79.35]</b>				
	07/18/12 17:35 EST		0	Thunderstorm Wind (EG 52 kt)
	07/18/12 17:35 EST		0	Source: Trained Spotter
Limbs were down on multiple trees near U.S. 33 west of Franklin.				
<b>PENDLETON COUNTY --- 0.6 W CIRCLEVILLE [38.67, -79.49]</b>				
	07/18/12 18:20 EST		0	Thunderstorm Wind (EG 56 kt)
	07/18/12 18:20 EST		0	Source: State Official
Two rides collapsed at a Fair.				
<b>A surface trough combined with moderate instability caused showers and thunderstorms to develop. There was enough instability for thunderstorms to produce damaging wind gusts and large hail.</b>				
<b>HARDY COUNTY --- 0.9 SE KESSEL [39.06, -79.02], 0.7 SSE KESSEL [39.06, -79.03], 0.6 SSE KESSEL [39.06, -79.02], 0.9 SE KESSEL [39.06, -79.02]</b>				
	07/20/12 18:30 EST		0	Flash Flood (due to Heavy Rain)
	07/20/12 20:30 EST		0	Source: State Official
Flash Flooding on Kessel Road.				
<b>A slow-moving cold front produced showers and thunderstorms in a highly moist atmosphere. High rainfall rates over already-saturated grounds produced isolated flash flooding in Hardy County.</b>				



## Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>MINERAL COUNTY --- 1.3 S BERYL [39.45, -79.07]</b>				
	07/24/12 11:03 EST		1K	Thunderstorm Wind (EG 56 kt)
	07/24/12 11:03 EST		0	Source: Department of Highways
A tree was down across a portion of Route 46.				
<b>MINERAL COUNTY --- 0.9 SE HEADSVILLE [39.39, -78.86]</b>				
	07/24/12 11:15 EST		1K	Thunderstorm Wind (EG 56 kt)
	07/24/12 11:15 EST		0	Source: State Official
A tree was down near the intersection of Patterson Creek Road and Headsville Road.				
<b>GRANT COUNTY --- 0.9 SE ARTHUR [39.06, -79.11]</b>				
	07/24/12 11:52 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/24/12 11:52 EST		0	Source: State Official
Trees were down near Seymourville.				
<b>HARDY COUNTY --- 0.1 ENE LOST RIVER [38.95, -78.80]</b>				
	07/24/12 12:16 EST		2K	Thunderstorm Wind (EG 61 kt)
	07/24/12 12:16 EST		0	Source: Department of Highways
Multiple trees were down along Mill Gap-Thorne Bottom Road.				
<b>HARDY COUNTY --- 0.4 WNW LOST CITY [38.93, -78.84]</b>				
	07/24/12 12:18 EST		2K	Thunderstorm Wind (EG 61 kt)
	07/24/12 12:18 EST		0	Source: State Official
Tree tops were twisted and ripped off. Tree tops landed in driveways along a back road off of Route 259.				
<b>A surface trough along with an upper-level disturbance triggered some showers and thunderstorms. There was enough instability and flow aloft for a few thunderstorms to produce damaging winds.</b>				
<b>MINERAL COUNTY --- 2.1 SW FT ASHBY [39.48, -78.80]</b>				
	07/26/12 18:58 EST		2K	Thunderstorm Wind (EG 52 kt)
	07/26/12 18:58 EST		0	Source: Broadcast Media
Trees were down near Route 46 and Georges Run Road.				
<b>A cold front passed through the area on the 26th. Hot and humid conditions ahead of the front caused moderate amounts of instability. The cold front triggered showers and thunderstorms. There was enough instability for an isolated thunderstorm to produce damaging winds.</b>				
<b>GRANT COUNTY --- 2.2 NW STONY RIVER [39.23, -79.27]</b>				
	07/31/12 11:26 EST		0	Hail (1.00 in)
	07/31/12 11:26 EST		0	Source: Public
Quarter sized hail was reported.				
<b>GRANT COUNTY --- 0.2 SW BISMARCK [39.22, -79.23]</b>				
	07/31/12 11:28 EST		0	Hail (1.00 in)
	07/31/12 11:28 EST		0	Source: Public
Hail up to the size of quarters was reported near Bismark Road and Route 93.				
<b>A stalled boundary remained over the region on the 31st. Warm and humid air ahead of the boundary caused showers and thunderstorms to develop. There was enough instability for a couple thunderstorms to produce large hail.</b>				