

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ATLANTIC NORTH				
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.3 S ANNAPOLIS [38.98, -76.48]				
	07/03/11 03:10 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	07/03/11 03:10 EST		0	Source: Buoy
A wind gust in excess of 30 knots was reported at the Annapolis Buoy.				
TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 1.1 WNW (DCA)REAGAN NATIONAL AIRPORT [38.86, -77.06]				
	07/03/11 17:29 EST		0	Marine Thunderstorm Wind (EG 50 kt)
	07/03/11 17:29 EST		0	Source: Unknown
Wind gust around 50 knots were estimated due to thunderstorm wind damage nearby.				
TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 0.7 E (DCA)REAGAN NATIONAL AIRPORT [38.85, -77.03]				
	07/03/11 17:31 EST		0	Marine Thunderstorm Wind (EG 45 kt)
	07/03/11 17:31 EST		0	Source: ASOS
A wind gust of 45 knots was reported at Reagan National.				
TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 0.7 SW WASHINGTON NATIONALS PARK [38.86, -77.02]				
	07/03/11 17:34 EST		0	Marine Thunderstorm Wind (EG 46 kt)
	07/03/11 17:34 EST		0	Source: Mesonet
A wind gust of 46 knots was reported at Nationals Park.				
TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 0.5 W WASHINGTON NATIONALS PARK [38.87, -77.02]				
	07/03/11 17:36 EST		0	Marine Thunderstorm Wind (EG 48 kt)
	07/03/11 17:36 EST		0	Source: Mesonet
A wind gust of 48 knots was reported.				
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 11.9 SSW THOMAS POINT LIGHT [38.74, -76.53]				
	07/03/11 18:05 EST		0	Marine Thunderstorm Wind (MG 37 kt)
	07/03/11 18:15 EST		0	Source: Mesonet
A wind gust of 37 knots was reported at Herring Bay.				
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- THOMAS POINT LIGHT [38.90, -76.44]				
	07/03/11 19:00 EST		0	Marine Thunderstorm Wind (MG 43 kt)
	07/03/11 19:00 EST		0	Source: Buoy
A wind gust of 43 knots was reported at Thomas Point Lighthouse.				
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.4 NE QUANTICO [38.50, -77.31]				
	07/03/11 19:13 EST		0	Marine Thunderstorm Wind (MG 40 kt)
	07/03/11 19:13 EST		0	Source: ASOS
A wind gust of 40 knots was reported at Quantico.				
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 11.5 W BABAR POINT [38.33, -77.24]				
	07/03/11 19:43 EST		0	Marine Thunderstorm Wind (EG 52 kt)
	07/03/11 19:43 EST		0	Source: Unknown
A wind gust was estimated to be around 60 mph due to thunderstorm wind damage nearby.				
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.7 E BABAR POINT [38.31, -77.02]				
	07/03/11 19:55 EST		0	Marine Thunderstorm Wind (MG 37 kt)
	07/03/11 20:10 EST		0	Source: Mesonet
Wind gust up to 37 knots were reported at Baber Point.				

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TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.2 W POTOMAC LIGHT [38.34, -76.99]				
	07/03/11 20:03 EST	0		Marine Thunderstorm Wind (MG 35 kt)
	07/03/11 20:03 EST	0		Source: Mesonet
A wind gust of 35 knots was reported at the Potomac Lighthouse.				
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.2 W POTOMAC LIGHT [38.34, -76.99]				
	07/03/11 21:04 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/03/11 21:04 EST	0		Source: Mesonet
A wind gust of 34 knots was reported at the Potomac Lighthouse.				
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- PINEY POINT [38.13, -76.53]				
	07/03/11 21:06 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	07/03/11 21:06 EST	0		Source: Mesonet
Wind gusts in excess of 30 knots were reported at Piney Point.				
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 18.2 WNW PINEY POINT [38.25, -76.83]				
	07/03/11 21:25 EST	0		Marine Thunderstorm Wind (MG 38 kt)
	07/03/11 21:45 EST	0		Source: Mesonet
Wind gusts up to 38 knots were reported at Cobb Point.				
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 0.2 WNW POINT LOOKOUT [38.04, -76.32]				
	07/03/11 21:35 EST	0		Marine Thunderstorm Wind (EG 40 kt)
	07/03/11 21:55 EST	0		Source: Mesonet
Wind gusts up to 40 knots were reported at Point Lookout.				
A cold front passed through the area during the 3rd. A southerly flow ahead of the front caused enough warm and moist air for moderate instability to develop. The combination of lift associated with the front and instability triggered showers and thunderstorms. Some thunderstorms produced gusty winds.				
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 0.2 WNW POINT LOOKOUT [38.04, -76.32]				
	07/04/11 20:00 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	07/04/11 20:00 EST	0		Source: Mesonet
A wind gust in excess of 30 knots was reported at Point Lookout.				
A trough of low pressure at the mid-levels of the atmosphere remained over the region on the 4th. The cooler air aloft associated with the mid-level trough caused enough instability for scattered showers and thunderstorms to develop. An isolated thunderstorm produced gusty winds.				
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- 4.3 NNW RIVIERA BEACH [39.22, -76.53]				
	07/07/11 17:24 EST	0		Marine Thunderstorm Wind (MG 59 kt)
	07/07/11 18:00 EST	0		Source: Buoy
Wind gusts up to 59 knots were reported at the Baltimore Key Bridge.				
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- 1.1 SE BALTIMORE CITY [39.27, -76.58]				
	07/07/11 17:36 EST	0		Marine Thunderstorm Wind (MG 35 kt)
	07/07/11 17:36 EST	0		Source: Buoy
A wind gust of 35 knots was reported at the Baltimore Buoy.				
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- 3.6 NNW RIVIERA BEACH [39.21, -76.53]				
	07/07/11 17:40 EST	0		Marine Thunderstorm Wind (EG 56 kt)
	07/07/11 17:40 EST	0		Source: Unknown
A wind gust around 65 mph was estimated due to thunderstorm wind damage nearby.				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- 1.6 SSW ORIOLE PARK AT CAMDEN YARDS [39.26, -76.63]				
	07/07/11 19:04 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	07/07/11 19:04 EST		0	Source: Mesonet
A wind gust in excess of 30 knots was reported in Lakeland.				
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- 0.2 N MARYLAND SCIENCE CENTER [39.28, -76.61]				
	07/07/11 19:09 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	07/07/11 19:09 EST		0	Source: Mesonet
A wind gust in excess of 30 knots was reported at Orioles Park.				
A mid-level trough of low pressure remained over the area, providing cooler air aloft. A southerly flow around high pressure over the Atlantic ushered in plenty of warm and moist air. The combination of warm and moist air at the surface along with cooler air aloft caused moderate amounts of instability to develop. Some thunderstorms that developed due to the instability were able to produce gusty winds.				
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.4 SE TOLLY POINT [38.94, -76.44]				
	07/08/11 15:31 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	07/08/11 15:31 EST		0	Source: Mesonet
A wind gust of 36 knots was reported at Tolly Point.				
CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 6.7 ENE BALTIMORE APPROACHES BUOY [39.21, -76.25]				
	07/08/11 15:54 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	07/08/11 16:00 EST		0	Source: Mesonet
Wind gusts up to 35 knots were reported at Tolchester Beach.				
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.2 ENE BABAR POINT [38.31, -77.03]				
	07/08/11 16:00 EST		0	Marine Thunderstorm Wind (MG 38 kt)
	07/08/11 16:10 EST		0	Source: Mesonet
Wind gusts up to 38 knots were reported at Baber Point.				
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.2 W POTOMAC LIGHT [38.34, -76.99]				
	07/08/11 16:09 EST		0	Marine Thunderstorm Wind (MG 44 kt)
	07/08/11 16:09 EST		0	Source: Mesonet
A wind gust of 44 knots was measured at the Potomac Lighthouse.				
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 2.0 E QUANTICO [38.50, -77.27]				
	07/08/11 16:19 EST		0	Marine Thunderstorm Wind (MG 38 kt)
	07/08/11 16:24 EST		0	Source: ASOS
A wind gust of 38 knots was measured at Quantico.				
TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.5 E BISHOPS HEAD [38.22, -76.03]				
	07/08/11 18:53 EST		0	Marine Thunderstorm Wind (MG 40 kt)
	07/08/11 18:53 EST		0	Source: Mesonet
A wind gust of 34 knots was reported at Bishops Head.				
TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.1 NE BISHOPS HEAD [38.22, -76.04]				
	07/08/11 18:54 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	07/08/11 18:54 EST		0	Source: Mesonet
A wind gust of 34 knots was reported at Bishops Head.				
A surface trough remained over the region during the 8th. Moderate instability ahead of the trough caused thunderstorms to develop. A few thunderstorms produced gusty winds.				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 11.6 NNE QUANTICO [38.64, -77.20]				
	07/11/11 19:50 EST		0	Marine Thunderstorm Wind (MG 39 kt)
	07/11/11 19:50 EST		0	Source: Mesonet
A wind gust of 39 knots was reported at Mason Neck.				
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.4 NE QUANTICO [38.50, -77.31]				
	07/11/11 20:07 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	07/11/11 20:07 EST		0	Source: ASOS
A wind gust of 35 knots was reported at Quantico.				
CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- 0.4 NW SUSQUEHANNA [39.54, -76.07]				
	07/11/11 20:30 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	07/11/11 20:30 EST		0	Source: Buoy
A wind gust in excess of 30 knots was reported at the Susquehanna Buoy.				
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.3 S ANNAPOLIS [38.98, -76.48]				
	07/11/11 20:30 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	07/11/11 20:30 EST		0	Source: Buoy
A wind gust in excess of 30 knots was reported at the Annapolis Buoy.				
CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- COVE POINT [38.43, -76.39]				
	07/11/11 21:06 EST		0	Marine Thunderstorm Wind (MG 38 kt)
	07/11/11 21:06 EST		0	Source: Buoy
A wind gust of 38 knots was reported at Cove Point.				
CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- COVE POINT [38.43, -76.39]				
	07/11/11 22:00 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	07/11/11 22:00 EST		0	Source: Buoy
A wind gust in excess of 30 knots was reported at Cove Point.				
PATUXENT RIVER TO BROOMES ISLAND MD COUNTY --- 0.3 NE CHESAPEAKE BIOLOGICAL LABORATORY [38.32, -76.45]				
	07/11/11 22:00 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	07/11/11 22:00 EST		0	Source: Buoy
A wind gust in excess of 30 knots was reported at Solomons Island.				
TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.1 NE BISHOPS HEAD [38.22, -76.04]				
	07/11/11 22:30 EST		0	Marine Thunderstorm Wind (MG 38 kt)
	07/11/11 22:54 EST		0	Source: Mesonet
A wind gust of 38 knots was reported at Bishops Head.				
TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.1 NE BISHOPS HEAD [38.22, -76.04]				
	07/11/11 22:41 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	07/11/11 22:41 EST		0	Source: Mesonet
Wind gusts up to 34 knots were measured at Bishops Head.				
An upper-level disturbance passed through the waters on the 11th. The atmosphere was very unstable due to a hot and humid air mass in place. The combination of forcing from the upper-level disturbance along with high amounts of instability led to the development of showers and thunderstorms. Thunderstorms produced gusty winds.				
TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 0.7 E (DCA)REAGAN NATIONAL AIRPORT [38.85, -77.03]				
	07/13/11 14:02 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	07/13/11 14:02 EST		0	Source: ASOS

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A wind gust of 34 knots was measured at Reagan National.

TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 3.8 S WEST POTOMAC HIGH SCHOOL [38.73, -77.07]

07/13/11 14:20 EST	0	Marine Thunderstorm Wind (EG 34 kt)
07/13/11 14:20 EST	0	Source: Buoy

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

CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.5 SE ANNAPOLIS [38.97, -76.47]

07/13/11 14:49 EST	0	Marine Thunderstorm Wind (EG 34 kt)
07/13/11 14:59 EST	0	Source: Buoy

A wind gust in excess of 30 knots was measured near Annapolis.

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

07/13/11 15:00 EST	0	Marine Thunderstorm Wind (EG 34 kt)
07/13/11 15:00 EST	0	Source: Buoy

A wind gust in excess of 30 knots was measured at Thomas Point.

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

07/13/11 15:10 EST	0	Marine Thunderstorm Wind (MG 37 kt)
07/13/11 15:10 EST	0	Source: ASOS

A wind gust of 37 knots was measured at Quantico.

TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.2 ENE BABAR POINT [38.31, -77.03]

07/13/11 15:30 EST	0	Marine Thunderstorm Wind (MG 39 kt)
07/13/11 15:35 EST	0	Source: Mesonet

Wind gusts up to 39 knots were measured at Baber Point.

TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 3.9 NE POTOMAC LIGHT [38.38, -76.94]

07/13/11 15:39 EST	0	Marine Thunderstorm Wind (EG 56 kt)
07/13/11 15:39 EST	0	Source: Unknown

Wind gusts around 65 mph were estimated based on thunderstorm wind damage near the Potomac Lighthouse.

TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.1 NNE MONROE CREEK [38.23, -76.95]

07/13/11 15:45 EST	0	Marine Thunderstorm Wind (MG 41 kt)
07/13/11 15:55 EST	0	Source: Mesonet

Wind gusts up to 41 knots were measured at Monroe Creek.

TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 18.2 WNW PINEY POINT [38.25, -76.83]

07/13/11 15:50 EST	0	Marine Thunderstorm Wind (MG 50 kt)
07/13/11 16:00 EST	0	Source: Mesonet

Wind gusts up to 50 knots were measured at Cobb Point.

TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- PINEY POINT [38.13, -76.53]

07/13/11 16:18 EST	0	Marine Thunderstorm Wind (MG 35 kt)
07/13/11 16:18 EST	0	Source: Buoy

A wind gust of 35 knots was measured at Piney Point.

TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.1 NNE MONROE CREEK [38.23, -76.95]

07/13/11 16:20 EST	0	Marine Thunderstorm Wind (EG 34 kt)
07/13/11 16:20 EST	0	Source: Mesonet

A wind gust in excess of 30 knots was measured at Monroe Creek.

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A cold front passed through Maryland on the 13th. Moderate instability ahead of the front combined with the forcing that was associated with the front to trigger showers and thunderstorms. Some thunderstorms were able to mix down gusty winds from aloft.

CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.8 N US NAVAL ACADEMY [38.99, -76.49]

	07/19/11 15:15 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	07/19/11 15:15 EST	0		Source: ASOS

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

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

	07/19/11 15:30 EST	0		Marine Thunderstorm Wind (MG 45 kt)
	07/19/11 15:30 EST	0		Source: Buoy

A wind gust of 45 knots was measured at the Annapolis Buoy.

PATUXENT RIVER TO BROOMES ISLAND MD COUNTY --- 1.4 NNE PATUXENT RIVER BUOY [38.41, -76.52]

	07/19/11 19:04 EST	0		Marine Thunderstorm Wind (EG 56 kt)
	07/19/11 19:04 EST	0		Source: Unknown

A wind gust around 65 mph was estimated due to thunderstorm wind damage nearby.

TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 23.9 WNW PINEY POINT [38.31, -76.91]

	07/19/11 19:06 EST	0		Marine Thunderstorm Wind (EG 50 kt)
	07/19/11 19:06 EST	0		Source: Unknown

A wind gust 50 knots were estimated due to thunderstorm wind damage nearby.

PATUXENT RIVER TO BROOMES ISLAND MD COUNTY --- 0.2 SSW CHESAPEAKE BIOLOGICAL LABORATORY [38.32, -76.45]

	07/19/11 19:18 EST	0		Marine Thunderstorm Wind (MG 36 kt)
	07/19/11 19:18 EST	0		Source: Buoy

A wind gust of 36 knots was measured at Solomons Island.

CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- 0.8 SSW PATUXENT RIVER ASOS [38.28, -76.41]

	07/19/11 19:25 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	07/19/11 19:25 EST	0		Source: ASOS

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

TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 17.9 WNW PINEY POINT [38.24, -76.83]

	07/19/11 19:55 EST	0		Marine Thunderstorm Wind (MG 44 kt)
	07/19/11 20:10 EST	0		Source: Mesonet

Wind gusts up to 44 knots were reported at Cobb Point.

TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- PINEY POINT [38.13, -76.53]

	07/19/11 20:06 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	07/19/11 20:06 EST	0		Source: Buoy

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

TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.1 NNE MONROE CREEK [38.23, -76.95]

	07/19/11 20:10 EST	0		Marine Thunderstorm Wind (MG 42 kt)
	07/19/11 20:25 EST	0		Source: Mesonet

Wind gusts up to 42 knots were measured at Monroe Creek.

A cold front passed through the area on the 19th. A warm and moist air mass ahead of the boundary caused moderate amounts of instability to develop. The instability combined with forcing from the front to trigger showers and thunderstorms. Some thunderstorms produced gusty winds.

TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 5.2 SSE WEST POTOMAC HIGH SCHOOL [38.71, -77.04]

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	07/23/11 18:10 EST		0	Marine Thunderstorm Wind (EG 61 kt)
	07/23/11 18:10 EST		0	Source: Unknown

A wind gust around 70 mph was estimated due to thunderstorm wind damage nearby.

A pressure trough triggered scattered showers and thunderstorms. Moderate instability ahead of the pressure trough caused an isolated thunderstorm to produce gusty winds.

TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 0.2 WNW POINT LOOKOUT [38.04, -76.32]				
	07/24/11 23:55 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	07/24/11 23:55 EST		0	Source: Mesonet

A wind gust of 34 knots was measured at Point Lookout.

A pressure trough triggered scattered showers and thunderstorms across the waters. An isolated thunderstorm produced gusty winds.

TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- PINEY POINT [38.13, -76.53]				
	07/25/11 16:48 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	07/25/11 16:48 EST		0	Source: Buoy

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

A cold front stalled to the west of the waters on the 25th. Showers and thunderstorms developed along and ahead of the front. Moderate instability due to a warm and humid air mass caused some thunderstorms to produce gusty winds.

DISTRICT OF COLUMBIA

DISTRICT OF COLUMBIA COUNTY --- 1.2 NNE LINCOLN MEMORIAL [38.90, -77.04]				
	07/03/11 17:29 EST		0	Thunderstorm Wind (MG 50 kt)
	07/03/11 17:29 EST		0	Source: Mesonet

A wind gust of 58 mph was measured near the Lincoln Memorial.

DISTRICT OF COLUMBIA COUNTY --- 0.8 NE US CAPITOL [38.89, -77.01]				
	07/03/11 17:30 EST		5K	Thunderstorm Wind (EG 52 kt)
	07/03/11 17:30 EST		0	Source: NWS Employee

Trees were down along the west lawn of the Capitol.

A cold front passed through the area during the 3rd. A southerly flow ahead of the front caused enough warm and moist air for moderate instability to develop. The combination of lift associated with the front and instability triggered showers and thunderstorms. Some thunderstorms became severe with damaging winds and large hail.

(DC-Z001) DISTRICT OF COLUMBIA				
	07/11/11 13:52 EST		0	Heat
	07/11/11 16:52 EST		0	

A southerly flow around high pressure over the Atlantic caused humid conditions on the 11th. Strong subsidence associated with upper-level high pressure nearby caused hot conditions. Heat indices in excess of 105 degrees were recorded.

(DC-Z001) DISTRICT OF COLUMBIA				
	07/21/11 14:00 EST		0	Excessive Heat
	07/21/11 17:00 EST		0	

Upper-level high pressure provided enough subsidence to cause hot conditions on the 21st. Surface high pressure over the Atlantic caused moist air to move into the region from the south. The combination of the heat and humidity caused heat indices to rise over 110 degrees during the afternoon hours.

(DC-Z001) DISTRICT OF COLUMBIA				
	07/22/11 09:00 EST		0	Heat
	07/22/11 16:00 EST		0	

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Strong upper-level high pressure built over the region during the 22nd. Surface high pressure over the Atlantic Ocean caused moist air to move into the region from the south. Strong subsidence underneath the upper-level high caused extremely hot conditions with air temperatures over 100 degrees. The combination of the heat and high humidity caused heat indices to soar up to near 120 degrees.

(DC-Z001) DISTRICT OF COLUMBIA

	07/29/11 11:00 EST	0	Heat
	07/29/11 17:00 EST	0	

Upper-level high pressure provided enough subsidence for hot conditions on the 29th. A southerly flow around surface high pressure over the Atlantic caused humid conditions. Hot and humid conditions caused heat indices over 105 degrees during the late morning and afternoon hours.

MARYLAND, Central

WASHINGTON COUNTY --- 0.7 WNW HOOD [39.72, -78.11]

	07/03/11 14:20 EST	0	Hail (1.00 in)
	07/03/11 14:20 EST	0	Source: Unknown

Quarter sized hail was reported.

HOWARD COUNTY --- 1.9 SSW ILCHESTER [39.23, -76.79]

	07/03/11 17:11 EST	5K	Thunderstorm Wind (EG 61 kt)
	07/03/11 17:11 EST	0	Source: Public

Many hardwood trees were uprooted and limbs were snapped in thunderstorm winds.

PRINCE GEORGE'S COUNTY --- 0.9 SE SEAT PLEASANT [38.87, -76.89]

	07/03/11 17:36 EST	5K	Thunderstorm Wind (EG 52 kt)
	07/03/11 17:36 EST	0	Source: State Official

Trees were knocked down causing traffic accidents and delays.

PRINCE GEORGE'S COUNTY --- 1.5 NNE BROWN [38.87, -76.79]

	07/03/11 17:41 EST	2K	Thunderstorm Wind (EG 52 kt)
	07/03/11 17:41 EST	0	Source: State Official

Trees were down near the intersection of Bloxham Court and Fikestone Way.

A cold front passed through the area during the 3rd. A southerly flow ahead of the front caused enough warm and moist air for moderate instability to develop. The combination of lift associated with the front and instability triggered showers and thunderstorms. Some thunderstorms became severe with damaging winds and large hail.

BALTIMORE COUNTY --- 1.3 NNE DUNDALK [39.29, -76.51]

	07/07/11 17:10 EST	0	Hail (1.00 in)
	07/07/11 17:10 EST	0	Source: Trained Spotter

Quarter sized hail was reported near Dundalk.

BALTIMORE COUNTY --- 0.9 E DUNDALK [39.27, -76.50]

	07/07/11 17:25 EST	3K	Thunderstorm Wind (EG 56 kt)
	07/07/11 17:25 EST	0	Source: Trained Spotter

Six trees between four and ten inches in diameter were down along Merrit Boulevard.

BALTIMORE COUNTY --- 1.0 S ESSEX [39.31, -76.48]

	07/07/11 17:27 EST	0	Hail (1.00 in)
	07/07/11 17:27 EST	0	Source: Public

Quarter sized hail was reported near Essex.

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
BALTIMORE COUNTY --- 0.9 NNE DUNDALK [39.28, -76.51]				
	07/07/11 17:28 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/07/11 17:28 EST		0	Source: Trained Spotter
A large tree that was three feet in diameter was knocked down.				
BALTIMORE COUNTY --- 1.1 SSE DUNDALK [39.26, -76.51]				
	07/07/11 17:33 EST		0.10M	Thunderstorm Wind (EG 66 kt)
	07/07/11 17:33 EST		0	Source: Trained Spotter
Roofs were partially taken off of several units in an Apartment Complex along the intersection of Mornington Road and Meadow Way.				
BALTIMORE COUNTY --- 1.1 SSE DUNDALK [39.26, -76.51]				
	07/07/11 17:33 EST		15K	Thunderstorm Wind (EG 56 kt)
	07/07/11 17:33 EST		0	Source: Trained Spotter
A tree that was one foot in diameter fell onto a house near the intersection of Sollers Point Road and Mornington Road.				
BALTIMORE COUNTY --- 0.9 E DUNDALK [39.27, -76.50]				
	07/07/11 17:35 EST		0	Hail (1.00 in)
	07/07/11 17:35 EST		0	Source: Trained Spotter
Quarter sized hail was reported near Dundalk.				
BALTIMORE COUNTY --- 1.5 SSW TURNER [39.21, -76.53]				
	07/07/11 17:40 EST		5K	Thunderstorm Wind (EG 56 kt)
	07/07/11 17:40 EST		0	Source: Trained Spotter
Multiple trees that were three to four feet in diameter were blown down. Many limbs were also down.				
WASHINGTON COUNTY --- 1.1 WSW GARRETT'S MILL [39.36, -77.70]				
	07/07/11 18:30 EST		40K	Thunderstorm Wind (EG 66 kt)
	07/07/11 18:30 EST		0	Source: Public
Trees were uprooted or snapped and large limbs were also down. Trees fell onto a house and a vehicle.				
BALTIMORE COUNTY --- 0.7 NNE BALTIMORE HIGHLANDS [39.24, -76.64]				
	07/07/11 18:54 EST		75K	Thunderstorm Wind (EG 61 kt)
	07/07/11 18:54 EST		0	Source: Trained Spotter
Roofs were blown off town homes in Catawba Court.				
ANNE ARUNDEL COUNTY --- 0.4 SSW NORTH LINTHICUM [39.21, -76.65]				
	07/07/11 19:20 EST		15K	Thunderstorm Wind (EG 61 kt)
	07/07/11 19:20 EST		0	Source: Trained Spotter
Roof damage was reported to apartment buildings.				
BALTIMORE COUNTY --- 2.3 NE CRONHARDT [39.45, -76.69]				
	07/07/11 22:56 EST		2K	Thunderstorm Wind (EG 50 kt)
	07/07/11 22:56 EST		0	Source: Trained Spotter
Large tree limbs were down along Falls Road.				
BALTIMORE COUNTY --- 0.9 S SPARKS [39.52, -76.65]				
	07/07/11 22:58 EST		1K	Thunderstorm Wind (EG 56 kt)
	07/07/11 22:58 EST		0	Source: Fire Department/Rescue
A tree fell onto wires along the 2300 block of West Joppa Road.				
BALTIMORE COUNTY --- 0.3 SE BROOKLANDVILLE [39.42, -76.67]				

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/07/11 23:13 EST		3K	Thunderstorm Wind (EG 56 kt)
	07/07/11 23:13 EST		0	Source: Fire Department/Rescue

Multiple trees were down due to thunderstorm winds.

A mid-level trough of low pressure remained over the area, providing cooler air aloft. A southerly flow around high pressure over the Atlantic ushered in plenty of warm and moist air. the combination of warm and moist air at the surface along with cooler air aloft caused moderate amounts of instability to develop. Some thunderstorms that developed due to the instability were able to cause damaging winds and large hail.

BALTIMORE COUNTY --- 0.7 S ESSEX [39.31, -76.48], 0.9 SSE ESSEX [39.31, -76.48], 1.0 S ESSEX [39.31, -76.48], 1.0 S ESSEX [39.31, -76.48]	07/07/11 17:20 EST		0	Flash Flood (due to Heavy Rain)
	07/07/11 19:00 EST		0	Source: Trained Spotter

Up to 6 inches of water was flooding across Eastern Avenue between Wiltshire and Mace Avenues. Rainfall Rates of up to one inch per hour were measured near this location.

BALTIMORE COUNTY --- 0.9 NE WHITE MARSH [39.39, -76.42], 1.1 NW LORELEY [39.39, -76.41], 0.9 NW LORELEY [39.39, -76.41], 0.9 NE WHITE MARSH [39.39, -76.42]	07/07/11 17:35 EST		0	Flash Flood (due to Heavy Rain)
	07/07/11 19:00 EST		0	Source: Department of Highways

Route 40 was closed near Stevens Road.

BALTIMORE COUNTY --- 1.8 SSW LUTZ HILL [39.30, -76.54], 1.7 SW LUTZ HILL [39.30, -76.54], 1.5 SW LUTZ HILL [39.30, -76.54], 1.6 SSW LUTZ HILL [39.30, -76.53], 1.6 N ST HELENA [39.29, -76.53]	07/07/11 17:45 EST		0	Flash Flood (due to Heavy Rain)
	07/07/11 19:00 EST		0	Source: State Official

North Point Road was flooded between Kane Street and Quad Avenue.

BALTIMORE COUNTY --- 2.5 WSW TURNER [39.21, -76.56], 2.3 SW TURNER [39.21, -76.55], 2.6 SW TURNER [39.21, -76.56], 2.8 SW TURNER [39.21, -76.56]	07/07/11 17:45 EST		0	Flash Flood (due to Heavy Rain)
	07/07/11 19:00 EST		0	Source: State Official

Portions of Quarantine Road were flooded.

BALTIMORE COUNTY --- 0.7 S ST HELENA [39.26, -76.53], 0.3 SSE ST HELENA [39.27, -76.53], 0.8 S DUNDALK [39.26, -76.52], 0.9 SSE ST HELENA [39.26, -76.53]	07/07/11 18:00 EST		0	Flash Flood (due to Heavy Rain)
	07/07/11 20:00 EST		0	Source: State Official

A swift water rescue was performed on Dundalk Avenue.

BALTIMORE COUNTY --- 0.9 NE TURNER [39.24, -76.51], 1.1 NE TURNER [39.24, -76.51], 1.1 NNE TURNER [39.24, -76.51], 1.1 NNE TURNER [39.24, -76.51]	07/07/11 18:00 EST		0	Flash Flood (due to Heavy Rain)
	07/07/11 20:00 EST		0	Source: State Official

A swift water rescue was performed at the intersection of North Avondale Road and Sellers Point Road.

BALTIMORE COUNTY --- 1.8 ENE DUNDALK [39.28, -76.49], 1.6 ENE DUNDALK [39.28, -76.49], 1.6 ENE DUNDALK [39.28, -76.49], 1.7 ENE DUNDALK [39.28, -76.49]	07/07/11 18:00 EST		0	Flash Flood (due to Heavy Rain)
	07/07/11 20:00 EST		0	Source: State Official

A swift water rescue was performed at the intersection of North Point Road and German Hill Road.

BALTIMORE COUNTY --- ST HELENA [39.27, -76.53], 0.1 NE ST HELENA [39.27, -76.53], 0.1 ESE ST HELENA [39.27, -76.53], 0.1 S ST HELENA [39.27, -76.53]	07/07/11 18:00 EST		0	Flash Flood (due to Heavy Rain)
	07/07/11 20:00 EST		0	Source: State Official

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A swift water rescue was performed on Dundalk Avenue.				
ANNE ARUNDEL COUNTY --- 0.7 N FOREMAN CORNERS [39.19, -76.55], 0.4 N FOREMAN CORNERS [39.19, -76.55], 0.4 NW FOREMAN CORNERS [39.18, -76.56], 0.8 NNW FOREMAN CORNERS [39.19, -76.56]				
	07/07/11 19:45 EST	0		Flash Flood (due to Heavy Rain)
	07/07/11 21:00 EST	0		Source: State Official
The intersection of Fort Smallwood Road and Hawkins Point Road was closed due to flash flooding.				
BALTIMORE CITY (C) COUNTY --- 0.7 W CAMDEN [39.28, -76.64], 0.5 WSW CAMDEN [39.28, -76.64], 0.5 ENE MT WINANS [39.27, -76.64], 0.5 NE MT WINANS [39.28, -76.64]				
	07/07/11 19:45 EST	0		Flash Flood (due to Heavy Rain)
	07/07/11 21:00 EST	0		Source: Fire Department/Rescue
Intersection of Washington Blvd and Monroe Street was closed due to flash flooding.				
BALTIMORE COUNTY --- 0.7 N BALTIMORE HIGHLANDS [39.24, -76.65], 1.0 NNE BALTIMORE HIGHLANDS [39.24, -76.64], 1.0 N BALTIMORE HIGHLANDS [39.24, -76.65], 1.0 N BALTIMORE HIGHLANDS [39.24, -76.65]				
	07/07/11 19:45 EST	0		Flash Flood (due to Heavy Rain)
	07/07/11 21:00 EST	0		Source: State Official
A swift water rescue was performed at the intersection of Myrtle and Tulip Avenues.				
BALTIMORE COUNTY --- 0.9 SE HALETHORPE [39.24, -76.69], 0.9 E RELAY [39.23, -76.68], 1.0 ENE RELAY [39.23, -76.68], 1.0 NE RELAY [39.24, -76.69]				
	07/07/11 19:45 EST	0		Flash Flood (due to Heavy Rain)
	07/07/11 21:00 EST	0		Source: State Official
A swift water rescue was performed on Halthorpe Avenue.				
BALTIMORE COUNTY --- 1.3 ENE BALTIMORE HIGHLANDS [39.24, -76.63], 1.5 NE BALTIMORE HIGHLANDS [39.24, -76.63], 1.4 NE BALTIMORE HIGHLANDS [39.24, -76.63], 1.3 NE BALTIMORE HIGHLANDS [39.24, -76.63]				
	07/07/11 19:45 EST	0		Flash Flood (due to Heavy Rain)
	07/07/11 21:00 EST	0		Source: State Official
Intersection of West Patapsco Avenue and Marmenco Court was closed due to flash flooding.				
BALTIMORE COUNTY --- 1.3 NW SPARROWS PT [39.28, -76.60], 1.3 NW SPARROWS PT [39.28, -76.60], 1.3 NW SPARROWS PT [39.28, -76.60], 1.4 NW SPARROWS PT [39.28, -76.60]				
	07/07/11 19:45 EST	0		Flash Flood (due to Heavy Rain)
	07/07/11 21:00 EST	0		Source: State Official
Intersection of Fleet and South Caroline Streets were closed due to flash flooding.				
BALTIMORE COUNTY --- 1.4 NW SPARROWS PT [39.28, -76.60], 1.3 NW SPARROWS PT [39.28, -76.60], 1.2 NW SPARROWS PT [39.28, -76.60], 1.3 NW SPARROWS PT [39.28, -76.60]				
	07/07/11 19:45 EST	0		Flash Flood (due to Heavy Rain)
	07/07/11 21:00 EST	0		Source: State Official
Intersection of Aliceanna and Caroline Streets closed due to flash flooding.				
BALTIMORE COUNTY --- 2.1 NNE BALTIMORE HIGHLANDS [39.26, -76.64], 2.7 N BALTIMORE HIGHLANDS [39.27, -76.64], 2.8 W SPARROWS PT [39.27, -76.63], 2.0 NNE BALTIMORE HIGHLANDS [39.26, -76.63]				
	07/07/11 19:45 EST	0		Flash Flood (due to Heavy Rain)
	07/07/11 21:00 EST	0		Source: State Official
Waterview Avenue was closed due to flash flooding at its intersection with Interstate 95.				
BALTIMORE COUNTY --- 2.1 SW SPARROWS PT [39.25, -76.61], 2.2 ENE BALTIMORE HIGHLANDS [39.25, -76.61], 2.3 NE BALTIMORE HIGHLANDS [39.25, -76.62], 2.2 WSW SPARROWS PT [39.25, -76.62]				
	07/07/11 19:45 EST	0		Flash Flood (due to Heavy Rain)
	07/07/11 21:00 EST	0		Source: State Official

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Portion of South Hanover Street was closed due to flooding.				
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BALTIMORE COUNTY --- 2.7 W SPARROWS PT [39.27, -76.63], 2.6 W SPARROWS PT [39.27, -76.63], 2.5 W SPARROWS PT [39.27, -76.63], 2.6 W SPARROWS PT [39.27, -76.63]	07/07/11 19:45 EST	0		Flash Flood (due to Heavy Rain)
	07/07/11 21:00 EST	0		Source: State Official
Flooding on Haines Street.				
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BALTIMORE COUNTY --- 2.8 N BALTIMORE HIGHLANDS [39.27, -76.65], 3.0 N BALTIMORE HIGHLANDS [39.27, -76.65], 2.9 N BALTIMORE HIGHLANDS [39.27, -76.64], 2.7 N BALTIMORE HIGHLANDS [39.27, -76.65]	07/07/11 19:45 EST	0		Flash Flood (due to Heavy Rain)
	07/07/11 21:00 EST	0		Source: State Official
Washington Blvd. was closed at Interstate 95 due to flash flooding.				
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BALTIMORE COUNTY --- 2.1 NE HALETHORPE [39.27, -76.67], 1.8 NE HALETHORPE [39.27, -76.67], 1.9 NE HALETHORPE [39.27, -76.67], 2.2 NE HALETHORPE [39.27, -76.67]	07/07/11 20:00 EST	0		Flash Flood (due to Heavy Rain)
	07/07/11 22:00 EST	0		Source: Public
Benson Avenue was closed at South Grantley Street due to flash flooding.				
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BALTIMORE COUNTY --- 0.7 S HUNT VLY [39.49, -76.65], 0.7 SE HUNT VLY [39.49, -76.64], 0.5 SE HUNT VLY [39.49, -76.64], 0.5 S HUNT VLY [39.49, -76.65]	07/07/11 23:45 EST	0		Flash Flood (due to Heavy Rain)
	07/08/11 01:00 EST	0		Source: State Official
Flash flooding forced closure of Ashland and York Roads intersection.				
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BALTIMORE COUNTY --- 0.7 S HUNT VLY [39.49, -76.65], 0.5 NNE COCKEYSVILLE [39.49, -76.65], 0.4 NE COCKEYSVILLE [39.48, -76.65], 0.5 NNE COCKEYSVILLE [39.49, -76.64]	07/08/11 00:00 EST	0		Flash Flood (due to Heavy Rain)
	07/08/11 01:00 EST	0		Source: State Official
A swift water rescue was performed at the intersection of York Road and Beaver Run Lane.				
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BALTIMORE COUNTY --- 1.0 WNW OREGON [39.50, -76.70], 0.4 NNW PHOENIX [39.53, -76.62], 1.8 SE ASHLAND [39.48, -76.61], 1.1 W TEXAS [39.47, -76.67]	07/08/11 00:00 EST	0		Flash Flood (due to Heavy Rain)
	07/08/11 01:00 EST	0		Source: Fire Department/Rescue
Multiple roadways were reported closed due to flash flooding in and around Cockeysville.				
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FREDERICK COUNTY --- 0.7 N FREDERICK [39.43, -77.42], 0.7 SSE FT DETRICK [39.42, -77.40], 1.1 WNW GROVE [39.41, -77.40], 1.1 SSW FREDERICK [39.41, -77.43]	07/08/11 14:25 EST	0		Flash Flood (due to Heavy Rain)
	07/08/11 16:00 EST	0		Source: Emergency Manager
Many major roadways throughout the city of Frederick were flooded.				
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HOWARD COUNTY --- 1.5 SSW SAVAGE [39.11, -76.84], 1.3 S SAVAGE [39.11, -76.83], 1.2 S SAVAGE [39.11, -76.83], 1.2 SSW SAVAGE [39.11, -76.84]	07/08/11 15:30 EST	0		Flash Flood (due to Heavy Rain)
	07/08/11 17:00 EST	0		Source: Department of Highways
Northbound Route 1 was closed between North 2nd Street and Davis due to flash flooding. Water was about 3 feet deep. Rainfall totals near the event measured 2.93 inches.				
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ANNE ARUNDEL COUNTY --- 0.8 ESE GREEN HAVEN [39.13, -76.54], 0.8 NW JACOBSTOWN [39.13, -76.53], 0.8 WNW JACOBSTOWN [39.13, -76.53], 0.8 ESE GREEN HAVEN [39.13, -76.54]				

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/08/11 15:45 EST		0	Flash Flood (due to Heavy Rain)
	07/08/11 17:00 EST		0	Source: COOP Observer

Mountain Road was closed due to flash flooding at intersection with Tick Neck Road. A nearby rain gage measured 2.80 inches.

HARFORD COUNTY --- 0.7 S VAN BIBBER [39.44, -76.30], 1.0 S VAN BIBBER [39.44, -76.30], 1.0 N EDGEWOOD [39.43, -76.30], 0.9 SSW VAN BIBBER [39.44, -76.31]

	07/08/11 15:45 EST		0	Flash Flood (due to Heavy Rain)
	07/08/11 17:00 EST		0	Source: Emergency Manager

A vehicle was stranded in floodwaters at the intersection of Routes 24 and 40. A nearby rain gage measured 2.20 inches.

ANNE ARUNDEL COUNTY --- 0.4 NNE JACOBVILLE [39.13, -76.52], 1.1 NNW LAKE SHR [39.11, -76.49], 0.4 NW LAKE SHR [39.10, -76.48], 0.2 S JACOBVILLE [39.12, -76.52]

	07/08/11 15:50 EST		0	Flood (due to Heavy Rain)
	07/08/11 17:00 EST		0	Source: COOP Observer

Several inches of water were covering various sections of Mountain Road. A nearby rain gage measured 0.81 inches.

BALTIMORE COUNTY --- 1.8 ENE DUNDALK [39.28, -76.49], 2.0 ENE DUNDALK [39.28, -76.49], 1.9 ENE DUNDALK [39.28, -76.49], 1.8 ENE DUNDALK [39.28, -76.49]

	07/08/11 16:00 EST		0	Flash Flood (due to Heavy Rain)
	07/08/11 17:00 EST		0	Source: Emergency Manager

The intersection of North Point Blvd. and Norris Lane was closed due to overflowing creek. A nearby spotter measured 1.72 inches of rain.

PRINCE GEORGE'S COUNTY --- 1.5 SSW UPPER MARLBORO [38.80, -76.76], 1.4 NE CROOME [38.80, -76.76], 1.4 S UPPER MARLBORO [38.80, -76.75], 1.2 S UPPER MARLBORO [38.80, -76.75]

	07/08/11 16:19 EST		0	Flash Flood (due to Heavy Rain)
	07/08/11 18:00 EST		0	Source: Department of Highways

Route 301 and Chew Road was closed due to flash flooding. A nearby spotter measured 1.14 inches of rain.

ANNE ARUNDEL COUNTY --- ANNAPOLIS [38.97, -76.50], 0.3 ESE WEST ANNAPOLIS [38.98, -76.49], 0.8 W WEST ANNAPOLIS [38.98, -76.51], 0.8 ESE PAROLE [38.98, -76.52]

	07/08/11 16:30 EST		0	Flash Flood (due to Heavy Rain)
	07/08/11 18:00 EST		0	Source: Emergency Manager

Intersection of St. Stephens Road and Route 450 were closed due to flash flooding.

ANNE ARUNDEL COUNTY --- GREEN HAVEN [39.13, -76.55], 0.3 E GREEN HAVEN [39.13, -76.54], 0.3 SE GREEN HAVEN [39.13, -76.55], 0.2 S GREEN HAVEN [39.13, -76.55]

	07/08/11 16:32 EST		0	Flood (due to Heavy Rain)
	07/08/11 18:00 EST		0	Source: COOP Observer

Mountain Road at Catherine Avenue was flooded by about one foot of standing water.

PRINCE GEORGE'S COUNTY --- DULEY [38.75, -76.80], 0.2 NE DULEY [38.75, -76.80], 0.3 ESE DULEY [38.75, -76.80], 0.2 S DULEY [38.75, -76.80]

	07/08/11 17:15 EST		0	Flash Flood (due to Heavy Rain)
	07/08/11 19:00 EST		0	Source: Emergency Manager

A swift water rescue was performed at the intersection of Duley Station Road and Wallace Lane.

A nearly stationary low pressure trough existing in a moist and unstable atmosphere aided in the development of showers and thunderstorms across northern Maryland. Slow storm movement caused flash flooding across the Baltimore metropolitan area as rainfall rates of over 1 inch per hour occurred. Rainfall totals reached as high as 3.10 in Montgomery County.

ST. MARY'S COUNTY --- 0.4 W CALIFORNIA [38.30, -76.51]

	07/08/11 17:27 EST		1K	Thunderstorm Wind (EG 45 kt)
	07/08/11 17:27 EST		0	Source: Fire Department/Rescue

Small trees were down in the town of California.

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ST. MARY'S COUNTY --- 0.5 ESE HOLLYWOOD [38.35, -76.57]				
	07/08/11 17:34 EST		1K	Thunderstorm Wind (EG 45 kt)
	07/08/11 17:34 EST		0	Source: Fire Department/Rescue
Small trees were down in Hollywood.				
A surface trough remained over the region during the 8th. Moderate instability ahead of the trough caused thunderstorms to develop. A few thunderstorms became severe due to the instability.				
(MD-Z502) CENTRAL AND EASTERN ALLEGANY				
	07/09/11 02:05 EST		0	Dense Fog
	07/09/11 07:38 EST		0	
Surface high pressure built overhead during the early morning hours of the 9th. Mainly clear skies and light winds combined with high amounts of low-level moisture to produce areas of dense fog across portions of western Maryland.				
(MD-Z007) HARFORD, (MD-Z011) SOUTHERN BALTIMORE				
	07/11/11 14:34 EST		0	Heat
	07/11/11 18:54 EST		0	
A southerly flow around high pressure over the Atlantic caused humid conditions on the 11th. Strong subsidence associated with upper-level high pressure nearby caused hot conditions. Heat indices in excess of 105 degrees were recorded across portions of eastern Maryland.				
FREDERICK COUNTY --- 1.8 WSW LANTZ [39.66, -77.48]				
	07/11/11 17:53 EST		1K	Thunderstorm Wind (EG 50 kt)
	07/11/11 17:53 EST		0	Source: State Official
A tree fell onto Foxville Deerfield Road.				
FREDERICK COUNTY --- 0.6 WSW GARFIELD [39.60, -77.54]				
	07/11/11 18:05 EST		1K	Thunderstorm Wind (EG 50 kt)
	07/11/11 18:05 EST		0	Source: State Official
A tree was down on Brandenburg Hollow Road.				
FREDERICK COUNTY --- 1.4 N UTICA [39.55, -77.40]				
	07/11/11 18:14 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/11/11 18:14 EST		0	Source: State Official
Two trees were down on Angleberger Road.				
FREDERICK COUNTY --- 0.3 E UTICA [39.53, -77.39]				
	07/11/11 18:15 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/11/11 18:15 EST		0	Source: State Official
A tree was down on Utica Mills Circle.				
FREDERICK COUNTY --- 0.9 SSW UTICA [39.52, -77.40]				
	07/11/11 18:15 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/11/11 18:15 EST		0	Source: State Official
A tree was down on Old Frederick Road.				
FREDERICK COUNTY --- 1.2 SE UTICA [39.52, -77.38]				
	07/11/11 18:15 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/11/11 18:15 EST		0	Source: State Official
A tree was down on Lenhart Road.				
CARROLL COUNTY --- 1.1 SE BRIDGEPORT [39.67, -77.20]				

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/11/11 18:24 EST		15K	Thunderstorm Wind (EG 61 kt)
	07/11/11 18:24 EST		0	Source: Emergency Manager
A barn was toppled by thunderstorm winds.				
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CARROLL COUNTY --- 0.8 S TANEYTOWN [39.66, -77.18]				
	07/11/11 18:26 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/11/11 18:26 EST		0	Source: Emergency Manager
A large tree was toppled.				
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CARROLL COUNTY --- 0.9 NE BRIDGEPORT [39.69, -77.21]				
	07/11/11 18:33 EST		20K	Thunderstorm Wind (EG 61 kt)
	07/11/11 18:33 EST		0	Source: Emergency Manager
Trees were down along Baptist Road. Power Poles were snapped and a barn collapsed.				
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CARROLL COUNTY --- 3.1 N PIPE CREEK MILL [39.71, -77.10]				
	07/11/11 18:36 EST		5K	Thunderstorm Wind (EG 56 kt)
	07/11/11 18:36 EST		0	Source: Trained Spotter
Several large trees were down.				
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CARROLL COUNTY --- 0.8 NNE SILVER RUN [39.69, -77.05]				
	07/11/11 18:38 EST		5K	Thunderstorm Wind (EG 61 kt)
	07/11/11 18:38 EST		0	Source: Emergency Manager
Several large trees were toppled near Silver run.				
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FREDERICK COUNTY --- 2.4 SW SAMS CREEK [39.48, -77.13]				
	07/11/11 18:45 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/11/11 18:45 EST		0	Source: State Official
A tree was down on Barnes Road.				
<hr/>				
FREDERICK COUNTY --- 2.8 NNE UNIONVILLE [39.52, -77.16]				
	07/11/11 18:45 EST		2K	Thunderstorm Wind (EG 52 kt)
	07/11/11 18:45 EST		0	Source: State Official
Trees were down along McKinstry Mill Road.				
<hr/>				
MONTGOMERY COUNTY --- 0.3 SSE POOLESVILLE [39.15, -77.42]				
	07/11/11 18:50 EST		5K	Thunderstorm Wind (EG 52 kt)
	07/11/11 18:50 EST		0	Source: State Official
Multiple trees were down on the Poolesville area.				
<hr/>				
MONTGOMERY COUNTY --- 0.7 SE GERMANTOWN [39.17, -77.27]				
	07/11/11 18:54 EST		1K	Thunderstorm Wind (EG 45 kt)
	07/11/11 18:54 EST		0	Source: State Official
Multiple trees were down in the Germantown area.				
<hr/>				
HOWARD COUNTY --- 0.9 NNE HIGHLAND [39.19, -76.96]				
	07/11/11 19:17 EST		1K	Thunderstorm Wind (EG 50 kt)
	07/11/11 19:17 EST		0	Source: State Official
A tree was down at Prestwick Drive and Highland.				
<hr/>				
HOWARD COUNTY --- 0.9 ENE SCAGGSVILLE [39.15, -76.89]				
	07/11/11 19:25 EST		2K	Thunderstorm Wind (EG 50 kt)
	07/11/11 19:25 EST		0	Source: State Official

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A tree fell onto power lines on Belgaro Road.				
HOWARD COUNTY --- 1.0 E SCAGGSVILLE [39.15, -76.88]				
	07/11/11 19:26 EST		1K	Thunderstorm Wind (EG 50 kt)
	07/11/11 19:26 EST		0	Source: State Official
A tree fell onto power lines on Graeloch Road.				
BALTIMORE COUNTY --- 0.6 ESE OAKLEIGH [39.40, -76.54]				
	07/11/11 19:55 EST		2K	Thunderstorm Wind (EG 50 kt)
	07/11/11 19:55 EST		0	Source: State Official
Scattered trees were down.				
CHARLES COUNTY --- 0.9 WNW POMFRET [38.59, -77.05]				
	07/11/11 20:00 EST		3K	Thunderstorm Wind (EG 52 kt)
	07/11/11 20:00 EST		0	Source: State Official
Trees were down in the vicinity of Pomfret Road and Brierwood Road.				
HARFORD COUNTY --- 0.3 W PERRYMAN [39.47, -76.21]				
	07/11/11 20:09 EST		5K	Thunderstorm Wind (EG 52 kt)
	07/11/11 20:09 EST		0	Source: Emergency Manager
Trees were down at Perryman.				
HARFORD COUNTY --- 0.7 NNW DARLINGTON [39.64, -76.20]				
	07/11/11 20:14 EST		5K	Thunderstorm Wind (EG 52 kt)
	07/11/11 20:14 EST		0	Source: Emergency Manager
Trees were down at Darlington.				
CALVERT COUNTY --- 1.1 W MUTUAL [38.47, -76.57]				
	07/11/11 20:52 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/11/11 20:52 EST		0	Source: State Official
A tree was down near the intersection of Crane and Hence Road.				
CALVERT COUNTY --- 0.5 NW ST LEONARD [38.47, -76.51]				
	07/11/11 20:54 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/11/11 20:54 EST		0	Source: State Official
A tree was down on St. Leonard Road and Parkers Creek Road.				
An upper-level disturbance passed through the area on the 11th. The atmosphere was very unstable due to a hot and humid air mass in place. The combination of forcing from the upper-level disturbance along with high amounts of instability led to the development of showers and thunderstorms. Thunderstorms produced damaging winds and large hail.				
MONTGOMERY COUNTY --- 1.5 NNE CLOPPER [39.17, -77.22], 1.1 NNE CLOPPER [39.16, -77.23], 1.2 N CLOPPER [39.17, -77.23], 1.4 ESE MIDDLEBROOK [39.17, -77.23]				
	07/13/11 14:00 EST		0	Flash Flood (due to Heavy Rain)
	07/13/11 15:00 EST		0	Source: Public
Game Preserve Road was closed due to high water.				
CHARLES COUNTY --- 0.7 S LA PLATA [38.52, -76.98], 0.7 SSE LA PLATA [38.52, -76.98], 0.5 SSE LA PLATA [38.52, -76.98], 0.5 S LA PLATA [38.52, -76.98]				
	07/13/11 15:20 EST		0	Flash Flood (due to Heavy Rain)
	07/13/11 17:00 EST		0	Source: Trained Spotter
Saint Marys Avenue was closed due to high water. A nearby rain gage measured 1.75 inches.				

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
CHARLES COUNTY --- 1.8 WSW WHITE PLAINS [38.57, -76.98], 1.9 WSW WHITE PLAINS [38.57, -76.98], 2.0 WSW WHITE PLAINS [38.56, -76.98], 1.9 WSW WHITE PLAINS [38.57, -76.98]				
	07/13/11 15:20 EST		0	Flash Flood (due to Heavy Rain)
	07/13/11 17:00 EST		0	Source: Trained Spotter
Washington Avenue was closed due to flash flooding. A nearby rain gage recorded 1.50 inches.				
Showers and thunderstorms developed along and ahead of a cold front moving through the Washington metropolitan area. Heavy rainfall rates prompted flash flooding in a few locations. Rainfall amounts of up to 2.01 were recorded in Charles County.				
CHARLES COUNTY --- 0.2 SSW POMFRET [38.58, -77.03]				
	07/13/11 15:10 EST		0	Thunderstorm Wind (EG 52 kt)
	07/13/11 15:10 EST		0	Source: State Official
Multiple trees were down.				
CHARLES COUNTY --- 0.6 ENE LA PLATA [38.53, -76.97]				
	07/13/11 15:15 EST		5K	Thunderstorm Wind (EG 52 kt)
	07/13/11 15:15 EST		0	Source: Trained Spotter
Numerous trees were down around La Plata.				
CHARLES COUNTY --- 0.8 SW IRONSIDES [38.49, -77.16]				
	07/13/11 15:15 EST		5K	Thunderstorm Wind (EG 56 kt)
	07/13/11 15:15 EST		0	Source: Trained Spotter
Several trees were down around Ironsides.				
CHARLES COUNTY --- 0.3 SW NEWBURG [38.38, -76.95]				
	07/13/11 15:39 EST		2K	Thunderstorm Wind (EG 56 kt)
	07/13/11 15:39 EST		0	Source: State Official
Multiple trees were down around Newburg.				
CHARLES COUNTY --- 0.8 WSW NEWBURG CLIFFTON ARP [38.36, -76.98]				
	07/13/11 15:39 EST		10K	Thunderstorm Wind (EG 56 kt)
	07/13/11 15:39 EST		0	Source: Fire Department/Rescue
An 18 Wheeler was blown over near the US 301 Bridge.				
ST. MARY'S COUNTY --- 0.2 NW BUDDS CREEK [38.40, -76.83]				
	07/13/11 15:39 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/13/11 15:39 EST		0	Source: State Official
A tree was down near the intersection of Budds Creek Road and Thompsons Corner Road.				
A cold front passed through Maryland on the 13th. Moderate instability ahead of the front combined with the forcing that was associated with the front to trigger showers and thunderstorms. Some thunderstorms were able to mix down strong winds from aloft.				
ANNE ARUNDEL COUNTY --- 0.2 NNW REVELL [39.07, -76.53]				
	07/19/11 15:15 EST		0	Thunderstorm Wind (EG 50 kt)
	07/19/11 15:15 EST		0	Source: Trained Spotter
A large branch fell across a drive way in Severna Park.				
WASHINGTON COUNTY --- 0.9 NE BAKERSVILLE [39.53, -77.74]				
	07/19/11 17:02 EST		40K	Thunderstorm Wind (EG 61 kt)
	07/19/11 17:02 EST		0	Source: Newspaper
A big tree was snapped off about twenty feet above the ground. Thirty to forty trees were uprooted and a Hay Wagon was blown over. A large tree also fell onto a garage.				

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
WASHINGTON COUNTY --- 2.1 N KEEDYSVILLE [39.51, -77.70]				
	07/19/11 17:05 EST		3K	Thunderstorm Wind (EG 56 kt)
	07/19/11 17:05 EST		0	Source: Emergency Manager
Multiple reports of trees were down between State Highway 65 and Route 40.				
CALVERT COUNTY --- 0.4 E WALLVILLE [38.42, -76.51]				
	07/19/11 19:04 EST		20K	Thunderstorm Wind (EG 56 kt)
	07/19/11 19:04 EST		0	Source: Emergency Manager
A roof was blown off a barn and there were multiple downed trees.				
CALVERT COUNTY --- 1.1 E WALLVILLE [38.42, -76.50]				
	07/19/11 19:04 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/19/11 19:04 EST		0	Source: Emergency Manager
A tree fell near Garrity road.				
ST. MARY'S COUNTY --- 2.0 SSE SOTTERLEY [38.35, -76.52]				
	07/19/11 19:06 EST		5K	Thunderstorm Wind (EG 61 kt)
	07/19/11 19:06 EST		0	Source: Trained Spotter
Tops of pine trees were sheared off about ten to fifteen feet above ground. A tree that was twenty inches in diameter was twisted.				
ST. MARY'S COUNTY --- 2.4 SSE SOTTERLEY [38.35, -76.51]				
	07/19/11 19:06 EST		0.50K	Thunderstorm Wind (EG 50 kt)
	07/19/11 19:06 EST		0	Source: Trained Spotter
Numerous tree branches were down.				
ST. MARY'S COUNTY --- 0.3 NNE LNRDTWN ST MARYS ARP [38.32, -76.55]				
	07/19/11 19:10 EST		3K	Thunderstorm Wind (EG 61 kt)
	07/19/11 19:10 EST		0	Source: Trained Spotter
Several trees were down near the intersection of Clarkes Landing Road and MD Route 235.				
ST. MARY'S COUNTY --- 1.5 NE HOLLYWOOD [38.37, -76.56]				
	07/19/11 19:10 EST		3K	Thunderstorm Wind (EG 61 kt)
	07/19/11 19:10 EST		0	Source: Trained Spotter
Multiple large trees were down.				
ST. MARY'S COUNTY --- 1.8 ENE LNRDTWN ST MARYS ARP [38.33, -76.52]				
	07/19/11 19:10 EST		10K	Thunderstorm Wind (EG 56 kt)
	07/19/11 19:10 EST		0	Source: Emergency Manager
About twenty to thirty trees were down around the Hollywood area.				
A cold front passed through the area on the 19th. A warm and moist air mass ahead of the boundary caused moderate amounts of instability to develop. The instability combined with forcing from the front to trigger showers and thunderstorms. Some thunderstorms produced damaging wind gusts.				
(MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z009) MONTGOMERY, (MD-Z010) HOWARD, (MD-Z014) ANNE ARUNDEL, (MD-Z017) ST. MARY'S, (MD-Z018) CALVERT, (MD-Z502) CENTRAL AND EASTERN ALLEGANY				
	07/21/11 12:00 EST		0	Heat
	07/21/11 18:00 EST		0	
(MD-Z007) HARFORD, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z013) PRINCE GEORGES, (MD-Z016) CHARLES				
	07/21/11 12:00 EST		0	Excessive Heat
	07/21/11 18:00 EST		0	

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Upper-level high pressure provided enough subsidence to cause hot conditions on the 21st. Surface high pressure over the Atlantic caused moist air to move into the region from the south. The combination of the heat and humidity caused heat indices over 110 degrees in some locations.

(MD-Z003) WASHINGTON, (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, (MD-Z502) CENTRAL AND EASTERN ALLEGANY

07/22/11 09:00 EST	2	0	Excessive Heat
07/22/11 19:00 EST		0	

Direct Fatalities: F????, M????

Strong upper-level high pressure built over the region during the 22nd. Surface high pressure over the Atlantic Ocean caused moist air to move into the region from the south. Strong subsidence underneath the upper-level high caused extremely hot conditions with air temperatures over 100 degrees. The combination of the heat and high humidity caused heat indices to soar up to as high as 120 degrees. The worst conditions were across eastern Maryland where the humidity was highest.

Numerous reports of heat-related illnesses were received by State Health Authorities on the 22nd.

WASHINGTON COUNTY --- 2.1 SW DRY RUN [39.70, -77.91]

07/22/11 13:16 EST		2K	Thunderstorm Wind (EG 56 kt)
07/22/11 13:16 EST		0	Source: State Official

Trees were down along Mercersburg Road.

WASHINGTON COUNTY --- 0.4 NE MC COYS [39.63, -77.97]

07/22/11 13:38 EST		2K	Thunderstorm Wind (EG 56 kt)
07/22/11 13:38 EST		0	Source: State Official

Trees were down near the intersection of Boyd Road and Big Pool Road.

WASHINGTON COUNTY --- 0.4 WSW LINCOLN AVENUE [39.62, -77.78]

07/22/11 13:45 EST		5K	Thunderstorm Wind (EG 61 kt)
07/22/11 13:45 EST		0	Source: State Official

Trees and road signs were down near Hickory High School Road and Virginia Avenue.

WASHINGTON COUNTY --- 0.2 WNW FIDDLESBURG [39.67, -77.70]

07/22/11 13:48 EST		3K	Thunderstorm Wind (EG 56 kt)
07/22/11 13:48 EST		0	Source: State Official

Numerous trees were down along Cathedral Avenue.

WASHINGTON COUNTY --- 0.3 SE HAGERSTOWN [39.65, -77.72]

07/22/11 13:48 EST		1K	Thunderstorm Wind (EG 61 kt)
07/22/11 13:48 EST		0	Source: State Official

A tree was down on George Street.

WASHINGTON COUNTY --- 0.5 W HAGERSTOWN [39.65, -77.73]

07/22/11 13:48 EST		0	Thunderstorm Wind (EG 52 kt)
07/22/11 13:48 EST		0	Source: State Official

A stadium lights tower was blown over into the Hagerstown Suns Stadium.

WASHINGTON COUNTY --- 1.8 S LINCOLN AVENUE [39.59, -77.77]

07/22/11 13:48 EST		1K	Thunderstorm Wind (EG 52 kt)
07/22/11 13:48 EST		0	Source: State Official

A tree was down on Rench Road.

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
WASHINGTON COUNTY --- 0.2 NNE HAGERSTOWN [39.65, -77.72]				
	07/22/11 13:49 EST		2K	Thunderstorm Wind (EG 52 kt)
	07/22/11 13:49 EST		0	Source: Trained Spotter
Large branches and one tree were down on Dual Highway Route 40 and Eastern Boulevard.				
WASHINGTON COUNTY --- 0.8 NE CORBETT [39.64, -77.72]				
	07/22/11 13:49 EST		1K	Thunderstorm Wind (EG 50 kt)
	07/22/11 13:49 EST		0	Source: State Official
A tree was down on National Pike at Beaver Creek Road.				
WASHINGTON COUNTY --- 3.9 W DOWNSVILLE [39.56, -77.87]				
	07/22/11 13:51 EST		5K	Thunderstorm Wind (EG 56 kt)
	07/22/11 13:51 EST		0	Source: Fire Department/Rescue
Numerous trees were down across the county.				
WASHINGTON COUNTY --- 1.3 WNW WAGNERS XRDS [39.57, -77.67]				
	07/22/11 14:04 EST		0.50K	Thunderstorm Wind (EG 40 kt)
	07/22/11 14:04 EST		0	Source: State Official
A small tree was down on Cool Hallow Road.				
FREDERICK COUNTY --- 1.2 NE ELLERTON [39.54, -77.53]				
	07/22/11 14:26 EST		2K	Thunderstorm Wind (EG 52 kt)
	07/22/11 14:26 EST		0	Source: Fire Department/Rescue
A couple of trees were down along Route 17 near Meetinghouse Road.				
A hot and humid air mass in place caused high amounts of instability on the 22nd. A stationary boundary triggered showers and thunderstorms. The high amounts of instability caused thunderstorms to produce damaging winds.				
(MD-Z007) HARFORD, (MD-Z011) SOUTHERN BALTIMORE				
	07/23/11 14:00 EST		0	Excessive Heat
	07/23/11 17:00 EST		0	
Strong upper-level high pressure combined with humid conditions to produce heat indices around 110 degrees across portions of northeastern Maryland.				
PRINCE GEORGE'S COUNTY --- 1.1 SSE FT WASHINGTON [38.71, -77.02]				
	07/23/11 18:10 EST		3K	Thunderstorm Wind (EG 61 kt)
	07/23/11 18:10 EST		0	Source: Fire Department/Rescue
Trees were snapped and uprooted along King Charles Terrace.				
PRINCE GEORGE'S COUNTY --- 0.9 N ACCOKEEK [38.68, -77.03]				
	07/23/11 18:55 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/23/11 18:55 EST		0	Source: Trained Spotter
Tree damage was reported near Accokeek.				
A pressure trough triggered scattered showers and thunderstorms. Moderate instability ahead of the pressure trough caused isolated thunderstorms to produce damaging wind gusts.				
(MD-Z007) HARFORD, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z014) ANNE ARUNDEL, (MD-Z017) ST. MARY'S, (MD-Z018) CALVERT				
	07/24/11 11:00 EST		0	Heat
	07/24/11 16:00 EST		0	
Strong upper-level high pressure combined with humid conditions to produce heat indices in excess of 105 degrees across portions of eastern Maryland.				

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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BALTIMORE CITY (C) COUNTY --- 0.9 SE WOODBERRY [39.34, -76.66]	07/25/11 13:22 EST		1K	Thunderstorm Wind (EG 50 kt)
	07/25/11 13:22 EST		0	Source: Fire Department/Rescue
A tree was knocked down on Green Spring road.				
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BALTIMORE CITY (C) COUNTY --- 0.8 W ROLAND PARK [39.37, -76.66]	07/25/11 13:30 EST		1K	Thunderstorm Wind (EG 50 kt)
	07/25/11 13:30 EST		0	Source: Fire Department/Rescue
A tree was knocked down at Bellemore Road.				
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ANNE ARUNDEL COUNTY --- 2.8 WNW HARWOOD [38.89, -76.67]	07/25/11 14:55 EST		0	Thunderstorm Wind (EG 50 kt)
	07/25/11 14:55 EST		0	Source: Public
A couple of tree limbs were down Harwood Road and Sands Road.				
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ANNE ARUNDEL COUNTY --- 0.5 ENE MT ZION [38.83, -76.61]	07/25/11 15:02 EST		1K	Thunderstorm Wind (EG 50 kt)
	07/25/11 15:02 EST		0	Source: Fire Department/Rescue
A tree was down on Route 2.				
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ST. MARY'S COUNTY --- 1.8 SW GOLDEN BEACH [38.46, -76.69]	07/25/11 15:10 EST		1K	Thunderstorm Wind (EG 50 kt)
	07/25/11 15:10 EST		0	Source: Fire Department/Rescue
Trees were down across Route 6 near Route 235.				
A cold front stalled over the area on the 25th. Showers and thunderstorms developed along and ahead of the front. Moderate instability due to a warm and humid air mass caused some thunderstorms to produce damaging wind gusts.				
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BALTIMORE COUNTY --- 0.9 SW HERNWOOD [39.37, -76.88], 0.7 SSW HERNWOOD [39.37, -76.87], 0.9 SSW HERNWOOD [39.37, -76.87], 1.1 NNW GRANITE [39.36, -76.88]	07/25/11 13:52 EST		0	Flash Flood (due to Heavy Rain)
	07/25/11 15:30 EST		0	Source: State Official
Road closed near the intersection of Marriottsville Road and Wards Chapel Road due to flash flooding. A nearby rain gage measured 1.61 inches.				
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BALTIMORE COUNTY --- 0.5 E HARRISONVILLE [39.38, -76.82], 0.4 ENE HARRISONVILLE [39.38, -76.82], 0.3 ENE HARRISONVILLE [39.38, -76.82], 0.4 E HARRISONVILLE [39.38, -76.82]	07/25/11 14:00 EST		0	Flash Flood (due to Heavy Rain)
	07/25/11 16:00 EST		0	Source: State Official
Areas near intersection of Liberty Road and Marriottsville Road experienced flash flooding. A nearby rain gage measured 1.59 inches.				
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HOWARD COUNTY --- 2.1 N WOODSTOCK [39.36, -76.97], 2.1 N WOODSTOCK [39.36, -76.97], 2.2 N WOODSTOCK [39.36, -76.97], 2.2 N WOODSTOCK [39.36, -76.97]	07/25/11 14:00 EST		0	Flash Flood (due to Heavy Rain)
	07/25/11 16:00 EST		0	Source: State Official
A car was washed off the road near the intersection of Forsythe Road and West Friendship due to water of several feet depth. A nearby spotter observed 2.98 inches of rain.				
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PRINCE GEORGE'S COUNTY --- 0.9 NW CONTEE [39.09, -76.88], 0.7 NNW CONTEE [39.09, -76.87], 0.9 NNW CONTEE [39.09, -76.87], 1.0 NNW CONTEE [39.09, -76.88]	07/25/11 14:45 EST		0	Flash Flood (due to Heavy Rain)
	07/25/11 16:00 EST		0	Source: State Official
Van Dusen Road was closed due to flash flooding on Bear Branch. A nearby rain gage observed 1.95 inches.				

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ANNE ARUNDEL COUNTY --- 1.0 SE CROFTON [38.99, -76.64], 2.3 WSW RUTLAND [38.96, -76.67], 1.9 W RUTLAND [38.97, -76.67], 0.4 SSW CROFTON [38.99, -76.65]				
	07/25/11 15:00 EST		0	Flash Flood (due to Heavy Rain)
	07/25/11 16:00 EST		0	Source: State Official
High water forced the closures of Route 424 at Bottner Road and Route 450 at Huntwood Drive. Also, a portion of Governor's Bridge Road was also closed. A nearby rain gage recorded 2.74 inches.				
Showers and thunderstorms developed along a stationary front over Maryland. Very heavy rainfall rates from activity training repeatedly across the same area produced flash flooding in some locations. Up to 3.20 inches of rain was measured in Howard County.				
(MD-Z007) HARFORD, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z013) PRINCE GEORGES, (MD-Z016) CHARLES, (MD-Z017) ST. MARY'S, (MD-Z018) CALVERT				
	07/29/11 11:00 EST		0	Heat
	07/29/11 17:00 EST		0	
Upper-level high pressure provided enough subsidence for hot conditions on the 29th. A southerly flow around surface high pressure over the Atlantic caused humid conditions. Hot and humid conditions caused heat indices over 105 degrees across many locations.				
VIRGINIA, North				
WAYNESBORO (C) COUNTY --- 0.7 SE WAYNESBORO [38.06, -78.87]				
	07/03/11 15:07 EST		0	Hail (1.00 in)
	07/03/11 15:07 EST		0	Source: Public
Quarter sized hail was reported near Waynesboro.				
AUGUSTA COUNTY --- 4.8 E LYNDHURST [38.03, -78.86]				
	07/03/11 15:12 EST		0	Hail (1.00 in)
	07/03/11 15:12 EST		0	Source: Public
Quarter sized hail was reported along Interstate 64 at exit 99.				
ALBEMARLE COUNTY --- 2.1 NNW NORTH GARDEN [37.96, -78.66]				
	07/03/11 15:43 EST		1K	Thunderstorm Wind (EG 50 kt)
	07/03/11 15:43 EST		0	Source: State Official
A tree was down across Plank Road.				
ALBEMARLE COUNTY --- 1.5 SE GILBERT [38.12, -78.35]				
	07/03/11 15:55 EST		0	Hail (1.50 in)
	07/03/11 15:55 EST		0	Source: Public
Ping pong ball sized hail was reported near Stoney Point.				
ALBEMARLE COUNTY --- 0.3 NNE STONY PT [38.12, -78.38]				
	07/03/11 15:57 EST		0	Hail (1.00 in)
	07/03/11 15:57 EST		0	Source: Public
Quarter sized hail was reported near Stoney Point.				
ALBEMARLE COUNTY --- STONY PT [38.12, -78.38]				
	07/03/11 15:57 EST		1K	Thunderstorm Wind (EG 50 kt)
	07/03/11 15:57 EST		0	Source: Public
Large branches were down near Stony Point.				
LOUDOUN COUNTY --- 3.2 ESE LEESBURG [39.11, -77.49]				

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/03/11 16:38 EST	1	0	Thunderstorm Wind (EG 56 kt)
	07/03/11 16:38 EST		0	Source: Park/Forest Service
A fatality occurred when a tree fell onto a cyclist along the C and O Canal Towpath. The location along the Towpath was south of Whites Ferry along mile marker 33.				
Direct Fatalities: M??UT				
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LOUDOUN COUNTY --- 1.0 SW BROAD RUN FARMS [39.02, -77.38]	07/03/11 16:54 EST		0	Thunderstorm Wind (MG 55 kt)
	07/03/11 16:54 EST		0	Source: Mesonet
A wind gust of 63 mph was measured near Sterling Park.				
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ARLINGTON COUNTY --- 1.3 NW BARCROFT [38.91, -77.15]	07/03/11 17:22 EST		1K	Thunderstorm Wind (EG 61 kt)
	07/03/11 17:22 EST		0	Source: Emergency Manager
Tree damage was reported along Old Dominion Drive at the Fairfax County Line.				
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ARLINGTON COUNTY --- 1.7 N BARCROFT [38.92, -77.13]	07/03/11 17:22 EST		1K	Thunderstorm Wind (EG 61 kt)
	07/03/11 17:22 EST		0	Source: Emergency Manager
Tree damage was reported along the 4400 Block of N. Glebe Road.				
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ARLINGTON COUNTY --- 1.2 E BARCROFT [38.90, -77.11]	07/03/11 17:24 EST		5K	Thunderstorm Wind (EG 61 kt)
	07/03/11 17:24 EST		0	Source: Emergency Manager
Substantial tree damage was reported in Cherrydale.				
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LOUDOUN COUNTY --- 1.5 W NORTH FORK [39.07, -77.76]	07/03/11 17:24 EST		5K	Thunderstorm Wind (EG 61 kt)
	07/03/11 17:24 EST		0	Source: Broadcast Media
Several trees were snapped and uprooted in Airmont Farms.				
<hr/>				
ARLINGTON COUNTY --- 1.8 ENE BARCROFT [38.91, -77.10]	07/03/11 17:26 EST		5K	Thunderstorm Wind (EG 61 kt)
	07/03/11 17:26 EST		0	Source: Emergency Manager
Widespread tree damage was reported along the George Washington Parkway.				
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LOUDOUN COUNTY --- 2.0 NE NORTH FORK [39.09, -77.70]	07/03/11 17:31 EST		2K	Thunderstorm Wind (EG 56 kt)
	07/03/11 17:31 EST		0	Source: Public
A large tree was down and several large Oak limbs were snapped.				
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FAUQUIER COUNTY --- 2.5 WNW DELAPLANE [38.93, -77.96]	07/03/11 17:32 EST		0	Hail (1.50 in)
	07/03/11 17:32 EST		0	Source: Public
Ping pong ball sized hail was reported near Delaplane.				
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FAUQUIER COUNTY --- 0.8 SSE MARSHALL [38.86, -77.85]	07/03/11 17:50 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/03/11 17:50 EST		0	Source: Public
A tree was down along the eastbound lane of Interstate 66.				

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
FAUQUIER COUNTY --- 0.4 SW MARSHALL [38.87, -77.85]				
	07/03/11 17:55 EST		1K	Thunderstorm Wind (EG 50 kt)
	07/03/11 17:55 EST		0	Source: Amateur Radio
Multiple tree limbs were down that were three inches and larger in diameter. The damage occurred along Route 17 and 155 on Winchester Road.				
FAUQUIER COUNTY --- 1.1 S NEW BALTIMORE [38.75, -77.72]				
	07/03/11 18:20 EST		2K	Thunderstorm Wind (EG 52 kt)
	07/03/11 18:20 EST		0	Source: Trained Spotter
Trees and large limbs were down.				
FAUQUIER COUNTY --- 1.6 SW SOMERVILLE [38.51, -77.62]				
	07/03/11 19:11 EST		1K	Thunderstorm Wind (EG 50 kt)
	07/03/11 19:11 EST		0	Source: Public
Large branches were down due to thunderstorm winds.				
(VA-Z056) SPOTSYLVANIA				
	07/03/11 19:39 EST		0	Heat
	07/03/11 19:39 EST		0	
ALBEMARLE COUNTY --- 0.2 SSE PROFFIT [38.12, -78.43]				
	07/03/11 19:43 EST		0.50K	Thunderstorm Wind (EG 45 kt)
	07/03/11 19:43 EST		0	Source: Trained Spotter
Multiple tree limbs were down.				
CHARLOTTESVILLE (C) COUNTY --- 2.0 NE CHARLOTTESVILLE [38.05, -78.47]				
	07/03/11 19:57 EST		1K	Thunderstorm Wind (EG 45 kt)
	07/03/11 19:57 EST		0	Source: Trained Spotter
A tree was down along Park Street at Melbourne Road.				
PRINCE WILLIAM COUNTY --- 0.4 W BETHEL [38.65, -77.33]				
	07/03/11 20:00 EST		5K	Thunderstorm Wind (EG 52 kt)
	07/03/11 20:00 EST		0	Source: Broadcast Media
A tree fell onto a car.				
PRINCE WILLIAM COUNTY --- 1.5 SSE MINNIEVILLE [38.61, -77.34]				
	07/03/11 20:00 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/03/11 20:00 EST		0	Source: Broadcast Media
Trees were down near Dale City.				
KING GEORGE COUNTY --- 0.5 E FAIRVIEW BEACH [38.33, -77.24]				
	07/03/11 20:43 EST		5K	Thunderstorm Wind (EG 52 kt)
	07/03/11 20:43 EST		0	Source: Trained Spotter
A tree fell onto a house.				
KING GEORGE COUNTY --- 0.9 SE NOCAM [38.21, -77.14]				
	07/03/11 21:08 EST		2K	Thunderstorm Wind (EG 52 kt)
	07/03/11 21:08 EST		0	Source: Trained Spotter
Trees were down.				

A cold front passed through the area during the 3rd. A southerly flow ahead of the front caused enough warm and moist air for moderate instability to develop. The combination of lift associated with the front and instability triggered showers and thunderstorms. Some thunderstorms became severe with damaging winds and large hail.

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
NELSON COUNTY --- 2.8 NE GREENFIELD [37.95, -78.81]				
	07/04/11 15:51 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/04/11 15:51 EST		0	Source: State Official
A tree fell down onto the road about two miles north of the intersection of Greenfield Road and Ennis Mountain Road.				
NELSON COUNTY --- 0.2 ENE PINEY RIVER [37.72, -79.02]				
	07/04/11 15:53 EST		0.50K	Thunderstorm Wind (EG 45 kt)
	07/04/11 15:53 EST		0	Source: State Official
A tree fell onto the road near the intersection of Patrk Henry Highway and Tye Brook Highway.				
NELSON COUNTY --- 3.0 NE ADIAL [37.88, -78.78]				
	07/04/11 16:12 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/04/11 16:12 EST		0	Source: State Official
A tree was down across the road at 2988 Old Roberts Mountain Road.				
NELSON COUNTY --- 1.4 N FABER [37.85, -78.75]				
	07/04/11 16:18 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/04/11 16:18 EST		0	Source: State Official
A tree was down near the intersection of Thomas Nelson Highway and Irish Road.				
NELSON COUNTY --- 1.3 E ALLENS CREEK [37.57, -78.86]				
	07/04/11 16:20 EST		0.50K	Thunderstorm Wind (EG 45 kt)
	07/04/11 16:20 EST		0	Source: State Official
A tree was down near the intersection of Richmond Highway and Route 622 in the Gladstone area.				
A trough of low pressure at the mid-levels of the atmosphere remained over the region on the 4th. The cooler air aloft associated with the mid-level trough caused enough instability for scattered showers and thunderstorms to develop. A few thunderstorms produced damaging winds and large hail.				
ALBERMARLE COUNTY --- 1.6 SW EASTHAM [38.05, -78.44], 1.6 SW EASTHAM [38.05, -78.44], 1.5 SW EASTHAM [38.05, -78.44], 1.6 SW EASTHAM [38.05, -78.44]				
	07/06/11 12:00 EST		0	Flash Flood (due to Heavy Rain)
	07/06/11 13:00 EST		0	Source: Fire Department/Rescue
Flooding was reported near the intersection of Stony Point Road and Key West Drive.				
Scattered thunderstorms developed across Albermarle County in association with a surface trough. An isolated flash flood occur from this moist, unstable atmosphere.				
AUGUSTA COUNTY --- 0.9 NNW STUARTS DRAFT [38.04, -79.04]				
	07/06/11 15:30 EST		1K	Thunderstorm Wind (EG 60 kt)
	07/06/11 15:30 EST		0	Source: Trained Spotter
Several branches that were about three inches in diameter were down due to thunderstorm wind gusts.				
A surface trough remained over Virginia on the 6th. The surface trough combined with an unstable atmosphre to trigger a few showers and thunderstorms. An isolated thunderstorm did produce damaging wind gusts.				
ROCKINGHAM COUNTY --- 0.5 SSE ELKTON [38.41, -78.62]				
	07/08/11 14:14 EST		5K	Thunderstorm Wind (EG 66 kt)
	07/08/11 14:14 EST		0	Source: Trained Spotter
Numerous trees were down along Highway 340 in Elkton.				
ROCKINGHAM COUNTY --- 0.9 SSE FURNACE [38.44, -78.56]				
	07/08/11 14:15 EST		0	Thunderstorm Wind (EG 61 kt)
	07/08/11 14:15 EST		0	Source: Trained Spotter

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A metal hay feeder was thrown into a pond.				
ORANGE COUNTY --- 2.6 NW NASONS [38.30, -78.06]				
	07/08/11 15:15 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/08/11 15:15 EST		0	Source: State Official
A tree was down along the 7200 Block of Rapidan Road.				
A surface trough remained over the region during the 8th. Moderate instability ahead of the trough caused thunderstorms to develop. A few thunderstorms became severe due to the instability.				
(VA-Z025) AUGUSTA, (VA-Z026) ROCKINGHAM, (VA-Z027) SHENANDOAH, (VA-Z029) PAGE, (VA-Z504) EASTERN HIGHLAND				
	07/09/11 01:15 EST		0	Dense Fog
	07/09/11 06:55 EST		0	
Surface high pressure built overhead during the early morning hours of the 9th. Mainly clear skies and light winds combined with high amounts of low-level moisture to produce areas of dense fog across portions of the Shenandoah Valley and Potomac Highlands.				
(VA-Z037) ALBEMARLE, (VA-Z050) ORANGE, (VA-Z051) CULPEPER, (VA-Z054) ARLINGTON				
	07/11/11 12:53 EST		0	Heat
	07/11/11 16:52 EST		0	
A southerly flow around high pressure over the Atlantic caused humid conditions on the 11th. Strong subsidence associated with upper-level high pressure nearby caused hot conditions. Heat indices in excess of 105 degrees were recorded.				
LOUDOUN COUNTY --- 1.0 SSE PURCELLVILLE [39.14, -77.71]				
	07/11/11 18:25 EST		5K	Thunderstorm Wind (EG 56 kt)
	07/11/11 18:25 EST		0	Source: State Official
Several trees were down in Purcellville.				
PRINCE WILLIAM COUNTY --- 2.0 SE NOKESVILLE [38.68, -77.55]				
	07/11/11 19:05 EST		5K	Thunderstorm Wind (EG 52 kt)
	07/11/11 19:05 EST		0	Source: State Official
Trees fell onto power lines along Parkgate Drive between Aden Road and Fleetwood Road.				
FAUQUIER COUNTY --- 1.5 ENE DUDIE [38.74, -77.86]				
	07/11/11 19:06 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/11/11 19:06 EST		0	Source: State Official
A tree fell onto power lines at Cannonball Gate Road and Bear Wallow Road.				
FAIRFAX COUNTY --- 1.3 E FLORIS [38.92, -77.40]				
	07/11/11 19:20 EST		5K	Thunderstorm Wind (EG 50 kt)
	07/11/11 19:20 EST		0	Source: Trained Spotter
At least seven large trees about one foot in diameter or more were down near the Fairfax County Parkway and West Ox Road.				
PRINCE WILLIAM COUNTY --- 1.5 ENE GAINESVILLE [38.81, -77.57]				
	07/11/11 19:34 EST		5K	Thunderstorm Wind (EG 52 kt)
	07/11/11 19:34 EST		0	Source: State Official
Trees fell onto power lines along Lee Highway between Sudley Road and John Marshall Highway.				
FAIRFAX COUNTY --- 1.8 ENE ENGLSIDE [38.74, -77.12]				
	07/11/11 19:46 EST		5K	Thunderstorm Wind (EG 50 kt)
	07/11/11 19:46 EST		0	Source: State Official
A tree fell onto a vehicle on Noel Street at Keeler Street.				
SPOTSYLVANIA COUNTY --- 2.1 SW WILDERNESS CORNER [38.30, -77.72]				

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/11/11 19:57 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/11/11 19:57 EST		0	Source: State Official
A tree fell onto power lines near the intersection of Wilderness Park Drive and Sickles Lane.				
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SPOTSYLVANIA COUNTY --- 0.9 N BROCKROAD [38.28, -77.68]				
	07/11/11 20:00 EST		1K	Thunderstorm Wind (EG 56 kt)
	07/11/11 20:00 EST		0	Source: State Official
A tree fell across Brock Road.				
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SPOTSYLVANIA COUNTY --- 0.6 NNW CHANCELLORSVILLE [38.31, -77.63]				
	07/11/11 20:01 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/11/11 20:01 EST		0	Source: State Official
A tree fell onto River Road near Plank Road.				
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SPOTSYLVANIA COUNTY --- 0.7 E BROCKROAD [38.27, -77.67]				
	07/11/11 20:01 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/11/11 20:01 EST		0	Source: State Official
A tree fell onto the road of Jackson Trail East.				
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SPOTSYLVANIA COUNTY --- 0.9 NNE CHANCELLORSVILLE [38.31, -77.62]				
	07/11/11 20:02 EST		1K	Thunderstorm Wind (EG 56 kt)
	07/11/11 20:02 EST		0	Source: Public
Two large trees were uprooted and cracked in half.				
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SPOTSYLVANIA COUNTY --- 1.1 NE CHANCELLORSVILLE [38.31, -77.62]				
	07/11/11 20:03 EST		1K	Thunderstorm Wind (EG 56 kt)
	07/11/11 20:03 EST		0	Source: State Official
A tree fell onto River Road near Davmar Lane.				
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SPOTSYLVANIA COUNTY --- 1.2 NE CHANCELLORSVILLE [38.31, -77.62]				
	07/11/11 20:03 EST		2K	Thunderstorm Wind (EG 56 kt)
	07/11/11 20:03 EST		0	Source: Emergency Manager
Three trees were down on river road between Musket Ridge Lane and 9 Mile Run Drive.				
<p>An upper-level disturbance passed through the area on the 11th. The atmosphere was very unstable due to a hot and humid air mass in place. The combination of forcing from the upper-level disturbance along with high amounts of instability led to the development of showers and thunderstorms. Thunderstorms produced damaging winds and large hail.</p>				
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FAIRFAX COUNTY --- 0.2 SSE HERNDON HGTS [38.98, -77.40]				
	07/13/11 13:26 EST		1K	Thunderstorm Wind (EG 50 kt)
	07/13/11 13:26 EST		0	Source: NWS Employee
A tree was down at the intersection of Herndon Parkway and Crestview Drive.				
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FAIRFAX COUNTY --- 0.3 SE HERNDON HGTS [38.98, -77.40]				
	07/13/11 13:27 EST		1K	Thunderstorm Wind (EG 50 kt)
	07/13/11 13:27 EST		0	Source: Public
A large tree was blocking the Washington and Old Dominion Trail.				
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CLARKE COUNTY --- 1.5 NW BERRYVILLE [39.17, -77.99]				
	07/13/11 13:32 EST		1K	Thunderstorm Wind (EG 50 kt)
	07/13/11 13:32 EST		0	Source: State Official
Two trees were down along Trap Hill Road.				

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
CLARKE COUNTY --- 2.8 NNW BERRYVILLE [39.19, -77.98]				
	07/13/11 13:32 EST		2K	Thunderstorm Wind (EG 52 kt)
	07/13/11 13:32 EST		0	Source: State Official
Trees were down along Stringtown Road.				
CLARKE COUNTY --- 0.8 NW BERRYVILLE [39.16, -77.93]				
	07/13/11 13:34 EST		2K	Thunderstorm Wind (EG 50 kt)
	07/13/11 13:34 EST		0	Source: State Official
Trees were down along Treadwell Street.				
CLARKE COUNTY --- 2.7 ESE BERRYVILLE [39.13, -77.93]				
	07/13/11 13:41 EST		2K	Thunderstorm Wind (EG 52 kt)
	07/13/11 13:41 EST		0	Source: State Official
Trees were down along Chilly Hollow Road.				
FAIRFAX COUNTY --- 0.7 S OAKTON [38.87, -77.30]				
	07/13/11 13:48 EST		0.50K	Thunderstorm Wind (EG 50 kt)
	07/13/11 13:48 EST		0	Source: COOP Observer
Tree branches were down in Vienna.				
FAIRFAX COUNTY --- 0.8 SW TYSONS CORNER [38.91, -77.24]				
	07/13/11 13:53 EST		1K	Thunderstorm Wind (EG 50 kt)
	07/13/11 13:53 EST		0	Source: COOP Observer
A tree was down near the intersection of Route 123 and Horseshoe Road.				
FAIRFAX COUNTY --- 0.7 S OAKTON [38.87, -77.30]				
	07/13/11 13:55 EST		0.50K	Thunderstorm Wind (EG 50 kt)
	07/13/11 13:55 EST		0	Source: Trained Spotter
Tree limbs that were two to three inches in diameter were down.				
LOUDOUN COUNTY --- 0.7 NW PHILOMONT [39.06, -77.74]				
	07/13/11 13:59 EST		2K	Thunderstorm Wind (EG 50 kt)
	07/13/11 13:59 EST		0	Source: Emergency Manager
Trees and wires were down.				
PRINCE WILLIAM COUNTY --- 2.0 SE CATHARPIN [38.83, -77.55]				
	07/13/11 14:25 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/13/11 14:25 EST		0	Source: NWS Employee
A large tree was snapped along Featherbed Lane in the Manassas Battlefield.				
PAGE COUNTY --- 1.1 NNW HANEYVILLE [38.60, -78.58]				
	07/13/11 14:49 EST		5K	Thunderstorm Wind (EG 56 kt)
	07/13/11 14:49 EST		0	Source: Department of Highways
Many trees were down along Shuler Lane.				
PAGE COUNTY --- 0.9 ESE HANEYVILLE [38.58, -78.55]				
	07/13/11 14:53 EST		5K	Thunderstorm Wind (EG 56 kt)
	07/13/11 14:53 EST		0	Source: Emergency Manager
Numerous trees were down.				
PAGE COUNTY --- 1.4 NNE INGHAM [38.55, -78.57]				

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/13/11 14:53 EST		5K	Thunderstorm Wind (EG 56 kt)
	07/13/11 14:53 EST		0	Source: Emergency Manager
Numerous trees were down.				
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PAGE COUNTY --- 2.0 SSE HANEYVILLE [38.55, -78.55]				
	07/13/11 14:53 EST		2K	Thunderstorm Wind (EG 52 kt)
	07/13/11 14:53 EST		0	Source: Department of Highways
Trees were down along Dovel Hollow Road.				
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ORANGE COUNTY --- 2.4 NW ORANGE [38.27, -78.15]				
	07/13/11 15:51 EST		1K	Thunderstorm Wind (EG 50 kt)
	07/13/11 15:51 EST		0	Source: State Official
A tree fell onto the road.				
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ORANGE COUNTY --- 0.4 W ORANGE [38.25, -78.13]				
	07/13/11 15:57 EST		10K	Thunderstorm Wind (EG 52 kt)
	07/13/11 15:57 EST		0	Source: State Official
A tree fell into a home.				
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ORANGE COUNTY --- 0.9 ENE ORANGE [38.25, -78.10]				
	07/13/11 15:58 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/13/11 15:58 EST		0	Source: State Official
A tree fell onto the road.				
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ORANGE COUNTY --- 1.7 WSW LOCUSTGROVE [38.29, -77.85]				
	07/13/11 15:59 EST		1K	Thunderstorm Wind (EG 56 kt)
	07/13/11 15:59 EST		0	Source: Trained Spotter
Large limbs were snapped.				
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ORANGE COUNTY --- 1.4 S ORANGE [38.23, -78.12]				
	07/13/11 16:00 EST		5K	Thunderstorm Wind (EG 61 kt)
	07/13/11 16:00 EST		0	Source: Trained Spotter
Numerous trees were down along with several poles.				
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ORANGE COUNTY --- 1.2 E MADISON RUN [38.20, -78.11]				
	07/13/11 16:08 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/13/11 16:08 EST		0	Source: State Official
A tree fell onto Mountain Track Road.				
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SPOTSYLVANIA COUNTY --- 2.4 WSW LEAVELLS [38.23, -77.56]				
	07/13/11 16:17 EST		1K	Thunderstorm Wind (EG 45 kt)
	07/13/11 16:17 EST		0	Source: State Official
A tree fell onto the intersection of Courthouse Road and Smith Station Road.				
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SPOTSYLVANIA COUNTY --- 2.8 NE CDENORA [38.11, -77.77]				
	07/13/11 16:25 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/13/11 16:25 EST		0	Source: State Official
A tree fell onto the intersection of Courthouse Road and Lewistown Road.				
<p>A cold front passed through northern and central Virginia on the 13th. Moderate instability ahead of the front combined with the forcing that was associated with the front to trigger showers and thunderstorms. Some thunderstorms were able to mix down strong winds from aloft.</p>				

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
FAIRFAX COUNTY --- 0.5 E TYSONS CORNER [38.92, -77.22], 0.7 ENE TYSONS CORNER [38.92, -77.22], 0.7 WSW LEWINSVILLE [38.92, -77.21], 0.8 ESE TYSONS CORNER [38.92, -77.22]				
	07/13/11 14:05 EST		0	Flash Flood (due to Heavy Rain)
	07/13/11 16:00 EST		0	Source: COOP Observer
Route 123 was closed under the Interstate 495 overpass due to flash flooding. A nearby rain gage measured 1.28.				
FAIRFAX COUNTY --- 0.8 SSW HERNDON [38.96, -77.39], 0.7 SSW HERNDON [38.96, -77.38], 0.7 SW HERNDON [38.96, -77.39], 0.9 SSW HERNDON [38.96, -77.39]				
	07/13/11 14:05 EST		0	Flash Flood (due to Heavy Rain)
	07/13/11 16:00 EST		0	Source: Trained Spotter
Alabama Drive was closed due to flash flooding. A nearby rain gage measured 1.35 inches.				
FAIRFAX COUNTY --- 2.3 NNE HERNDON [39.00, -77.36], 2.2 NNE HERNDON [39.00, -77.36], 2.5 NE HERNDON [39.00, -77.35], 2.5 NNE HERNDON [39.00, -77.36]				
	07/13/11 14:10 EST		0	Flash Flood (due to Heavy Rain)
	07/13/11 16:00 EST		0	Source: Trained Spotter
Forest Heights Court was closed due to flash flooding. A nearby rain gage measured 1.05 inches.				
FAIRFAX COUNTY --- 0.5 W CLARKS CROSSING [38.92, -77.31], 0.4 SSW CLARKS CROSSING [38.91, -77.30], 0.5 NNW CLARKS CROSSING [38.93, -77.30], 0.8 WNW CLARKS CROSSING [38.93, -77.31]				
	07/13/11 14:15 EST		0	Flash Flood (due to Heavy Rain)
	07/13/11 16:00 EST		0	Source: COOP Observer
A swift water rescue was conducted at the intersection of Hunter Mill Road and Lawyers Road. A rain gage near the event measured 1.04 inches.				
FAIRFAX COUNTY --- VIENNA [38.90, -77.27], 0.3 E VIENNA [38.90, -77.27], 0.4 ENE VIENNA [38.90, -77.26], 0.3 ENE VIENNA [38.90, -77.27]				
	07/13/11 14:15 EST		0	Flash Flood (due to Heavy Rain)
	07/13/11 16:00 EST		0	Source: Trained Spotter
The intersection of Center Street and Route 123 have been closed due to flash flooding. A nearby rain gage measured 2.62 inches.				
FAIRFAX COUNTY --- 0.5 W DUNN LORING [38.88, -77.24], 0.5 W DUNN LORING [38.88, -77.24], 0.3 W DUNN LORING [38.88, -77.24], 0.3 WNW DUNN LORING [38.88, -77.23]				
	07/13/11 14:30 EST		0	Flash Flood (due to Heavy Rain)
	07/13/11 16:00 EST		0	Source: Department of Highways
Two lanes of Interstate 66 near Mile Marker 64 were closed due to high water. A nearby rain gage tallied 1.65 inches.				
FAIRFAX COUNTY --- 0.5 E DUNN LORING [38.88, -77.22], 0.4 E DUNN LORING [38.88, -77.22], 0.5 ENE DUNN LORING [38.88, -77.22], 0.6 ENE DUNN LORING [38.88, -77.22]				
	07/13/11 14:35 EST		0	Flash Flood (due to Heavy Rain)
	07/13/11 16:00 EST		0	Source: Department of Highways
Two ramps of the Interstate 66 and Capital Beltway interchange were closed due to high water.				
FAIRFAX COUNTY --- 1.1 W TREMONT [38.85, -77.24], 0.9 WSW TREMONT [38.85, -77.24], 1.1 WSW TREMONT [38.84, -77.24], 1.1 NNE ILDA [38.84, -77.24]				
	07/13/11 14:45 EST		0	Flash Flood (due to Heavy Rain)
	07/13/11 16:00 EST		0	Source: State Official
Flash flooding on Accotink Creek forced the closure of Woodburn Road near Spicewood Drive.				
FAIRFAX COUNTY --- 0.9 NW CLARKS CROSSING [38.93, -77.31], 0.6 NNW CLARKS CROSSING [38.93, -77.30], 0.8 N CLARKS CROSSING [38.93, -77.30], 1.0 NNW CLARKS CROSSING [38.93, -77.31]				
	07/13/11 16:45 EST		0	Flash Flood (due to Heavy Rain)
	07/13/11 17:15 EST		0	Source: COOP Observer
A swift water rescue occurred at the intersection of Hunter Mill Road and Hunter Station Road.				

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Showers and thunderstorms developed along and ahead of a cold front moving through the Washington metropolitan area. Heavy rainfall rates prompted flash flooding in parts of Fairfax County. Rainfall amounts of up to 3.23 inches were reported near Vienna.

(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

07/21/11 13:00 EST	0	Excessive Heat
07/21/11 17:00 EST	0	

(VA-Z028) FREDERICK, (VA-Z030) WARREN, (VA-Z031) CLARKE, (VA-Z036) NELSON, (VA-Z037) ALBEMARLE, (VA-Z038) GREENE, (VA-Z039) MADISON, (VA-Z040) RAPPAHANNOCK, (VA-Z042) LOUDOUN, (VA-Z050) ORANGE, (VA-Z501) NORTHERN FAUQUIER

07/21/11 14:00 EST	0	Heat
07/21/11 18:00 EST	0	

Upper-level high pressure provided enough subsidence to cause hot conditions on the 21st. Surface high pressure over the Atlantic caused moist air to move into the region from the south. The combination of the heat and humidity caused heat indices over 110 degrees in some locations.

(VA-Z027) SHENANDOAH, (VA-Z028) FREDERICK, (VA-Z029) PAGE, (VA-Z030) WARREN, (VA-Z031) CLARKE, (VA-Z036) NELSON, (VA-Z037) ALBEMARLE, (VA-Z038) GREENE, (VA-Z039) MADISON, (VA-Z040) RAPPAHANNOCK, (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

07/22/11 09:00 EST	0	Excessive Heat
07/22/11 18:00 EST	0	

Strong upper-level high pressure built over the region during the 22nd. Surface high pressure over the Atlantic Ocean caused moist air to move into the region from the south. Strong subsidence underneath the upper-level high caused extremely hot conditions with air temperatures over 100 degrees. The combination of the heat and high humidity caused heat indices to soar over 115 degrees. The worst conditions were east of the Blue Ridge Mountains where the humidity was highest.

FREDERICK COUNTY --- 1.1 ENE OPEQUON [39.17, -78.23]

07/22/11 15:00 EST	5K	Thunderstorm Wind (EG 66 kt)
07/22/11 15:00 EST	0	Source: Fire Department/Rescue

Numerous trees were down west of Winchester.

WINCHESTER (C) COUNTY --- 3.3 NNW WINCHESTER [39.17, -78.19]

07/22/11 15:05 EST	0	Thunderstorm Wind (EG 61 kt)
07/22/11 15:05 EST	1	Source: Emergency Manager

Four dozen trees were destroyed. A roof was torn off the Rock Harbor Golf Course and one person was injured.

CLARKE COUNTY --- 2.1 S SWIMLEY [39.22, -78.01]

07/22/11 15:22 EST	1K	Thunderstorm Wind (EG 52 kt)
07/22/11 15:22 EST	0	Source: State Official

A tree was down on Crums Church Road.

CLARKE COUNTY --- 3.0 SSE SWIMLEY [39.21, -77.98]

07/22/11 15:22 EST	3K	Thunderstorm Wind (EG 52 kt)
07/22/11 15:22 EST	0	Source: State Official

Several trees were down on Allen Road.

CLARKE COUNTY --- 3.9 WNW BERRYVILLE [39.18, -78.03]

07/22/11 15:22 EST	10K	Thunderstorm Wind (EG 52 kt)
07/22/11 15:22 EST	0	Source: State Official

A tree fell onto a house on the 11000 Block of Harry Byrd Highway.

CLARKE COUNTY --- 4.5 S WADESVILLE [39.19, -78.04]

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/22/11 15:23 EST		3K	Thunderstorm Wind (EG 52 kt)
	07/22/11 15:23 EST		0	Source: Fire Department/Rescue
Several trees were down to the north and west of Berryville.				
<hr/>				
CLARKE COUNTY --- 0.5 NW BRIGGS [39.10, -78.03]				
	07/22/11 15:29 EST		0.50K	Thunderstorm Wind (EG 45 kt)
	07/22/11 15:29 EST		0	Source: State Official
A large limb was down on Lord Fairfax Highway near Greenway Avenue.				
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FAIRFAX COUNTY --- 0.8 NW SPRING HILL [38.96, -77.24]				
	07/22/11 15:43 EST		1K	Thunderstorm Wind (EG 50 kt)
	07/22/11 15:43 EST		0	Source: Public
Multiple branches that were three to six inches in diameter were down.				
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CLARKE COUNTY --- 0.7 SW BOYCE [39.09, -78.06]				
	07/22/11 15:47 EST		1K	Thunderstorm Wind (EG 50 kt)
	07/22/11 15:47 EST		0	Source: State Official
A tree was blocking the intersection of Main Street and Old Chapel Avenue.				
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CLARKE COUNTY --- 0.7 WSW BOYCE [39.09, -78.06]				
	07/22/11 15:47 EST		5K	Thunderstorm Wind (EG 50 kt)
	07/22/11 15:47 EST		0	Source: Fire Department/Rescue
Trees were down on power lines at the intersection of Main and Crescent Streets.				
<hr/>				
WARREN COUNTY --- 2.3 SE RELIANCE [38.97, -78.23]				
	07/22/11 16:00 EST		0	Thunderstorm Wind (EG 56 kt)
	07/22/11 16:00 EST		0	Source: Public
Several trees were down in the forest north off River Ridge Drive.				
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ROCKINGHAM COUNTY --- 2.8 NNW CRIDERS [38.79, -79.01]				
	07/22/11 16:20 EST		3K	Thunderstorm Wind (EG 56 kt)
	07/22/11 16:20 EST		0	Source: Public
Trees were uprooted and large limbs were snapped in the area around Bennett Run Road and Overly Hollow.				
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AUGUSTA COUNTY --- 0.9 ESE CAMP MAY FLATHER [38.37, -79.15]				
	07/22/11 19:25 EST		3K	Thunderstorm Wind (EG 56 kt)
	07/22/11 19:25 EST		0	Source: Public
Trees were down at camp along Stokesville Road.				
<hr/>				
A hot and humid air mass in place caused high amounts of instability on the 22nd. A stationary boundary triggered showers and thunderstorms. The high amounts of instability caused thunderstorms to produce damaging winds.				
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ALBEMARLE COUNTY --- 2.3 WNW SIMEON [37.99, -78.49]				
	07/23/11 13:30 EST		1K	Thunderstorm Wind (EG 50 kt)
	07/23/11 13:30 EST		0	Source: Public
A tree was down on Scottsville Road.				
<hr/>				
ALBEMARLE COUNTY --- 1.4 N BLEMHEIM [37.92, -78.50]				
	07/23/11 14:00 EST		0.50K	Thunderstorm Wind (EG 52 kt)
	07/23/11 14:00 EST		0	Source: Public
Two tree limbs were blown down.				

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ALBEMARLE COUNTY --- 1.5 N BLEMHHEIM [37.92, -78.50]				
	07/23/11 14:00 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/23/11 14:00 EST		0	Source: Public
Two to three branches were blown down in thunderstorm wind gusts.				
ALBEMARLE COUNTY --- 1.9 NNW BLEMHHEIM [37.92, -78.52]				
	07/23/11 14:00 EST		5K	Thunderstorm Wind (EG 61 kt)
	07/23/11 14:00 EST		0	Source: Public
Numerous trees were uprooted and large branches were snapped.				
CULPEPER COUNTY --- 1.8 ENE WHITE SHOP [38.44, -78.04]				
	07/23/11 14:05 EST		2K	Thunderstorm Wind (EG 61 kt)
	07/23/11 14:05 EST		0	Source: Public
Several medium-sized trees were snapped.				
CULPEPER COUNTY --- 0.8 ESE WINSTON [38.40, -78.01]				
	07/23/11 14:30 EST		2K	Thunderstorm Wind (EG 56 kt)
	07/23/11 14:30 EST		0	Source: State Official
Trees were blocking Zachary Taylor Highway.				
A pressure trough triggered scattered showers and thunderstorms across central Virginia. Moderate instability ahead of the pressure trough caused thunderstorms to produce damaging wind gusts.				
AUGUSTA COUNTY --- 2.3 E SHERANDO [37.98, -78.96]				
	07/24/11 15:04 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/24/11 15:04 EST		0	Source: State Official
A tree was blown down by a thunderstorm wind gust.				
NELSON COUNTY --- 1.5 SE AVON [37.98, -78.81]				
	07/24/11 15:20 EST		2K	Thunderstorm Wind (EG 50 kt)
	07/24/11 15:20 EST		0	Source: State Official
A tree was down on a power line along Durrett Town Road.				
A pressure trough triggered scattered showers and thunderstorms across central Virginia. A couple thunderstorms were able to produce damaging wind gusts.				
NELSON COUNTY --- 4.6 WNW MARTINS STORE [37.92, -78.95]				
	07/25/11 12:20 EST		5K	Thunderstorm Wind (EG 61 kt)
	07/25/11 12:20 EST		0	Source: Public
Windows were blown out of a structure and tree damage was also noted.				
A cold front stalled over the area on the 25th. Showers and thunderstorms developed along and ahead of the front. Moderate instability due to a warm and humid air mass caused some thunderstorms to produce damaging wind gusts.				
(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				
	07/29/11 11:00 EST		0	Heat
	07/29/11 17:00 EST		0	
Upper-level high pressure provided enough subsidence for hot conditions on the 29th. A southerly flow around surface high pressure over the Atlantic caused humid conditions. Hot and humid conditions caused heat indices over 105 degrees across many locations.				

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MORGAN COUNTY --- 1.1 ENE STOHRX XRDS [39.63, -78.13]				
	07/03/11 14:43 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/03/11 14:43 EST		0	Source: Public
A tree along with large branches were down.				
BERKELEY COUNTY --- 0.5 S NORTH MTN [39.56, -77.98]				
	07/03/11 15:07 EST		1K	Thunderstorm Wind (EG 50 kt)
	07/03/11 15:07 EST		0	Source: State Official
A tree was down near the intersection of Allensville Road and Hammonds Mill Road.				
A cold front passed through the area during the 3rd. A southerly flow ahead of the front caused enough warm and moist air for moderate instability to develop. The combination of lift associated with the front and instability triggered showers and thunderstorms. Some thunderstorms became severe with damaging winds and large hail.				
HAMPSHIRE COUNTY --- 1.1 W PLEASANTDALE [39.30, -78.60]				
	07/07/11 20:42 EST		1K	Thunderstorm Wind (EG 45 kt)
	07/07/11 20:42 EST		0	Source: Emergency Manager
A tree was down blocking the road at the intersection of Routes 29 and 50.				
BERKELEY COUNTY --- 0.5 SE ARDEN [39.42, -78.04]				
	07/07/11 21:47 EST		1K	Thunderstorm Wind (EG 50 kt)
	07/07/11 21:47 EST		0	Source: Fire Department/Rescue
Two trees were blocking a road in Arden.				
A mid-level trough of low pressure remained over the area, providing cooler air aloft. A southerly flow around high pressure over the Atlantic ushered in plenty of warm and moist air. the combination of warm and moist air at the surface along with cooler air aloft caused moderate amounts of instability to develop. A couple thunderstorms that developed due to the instability were able to cause damaging winds.				
HAMPSHIRE COUNTY --- 0.7 S CAPON BRIDGE [39.29, -78.45], 0.3 SW CAPON BRIDGE [39.30, -78.45], 1.8 WSW CAPON BRIDGE [39.29, -78.48], 1.8 WSW CAPON BRIDGE [39.29, -78.48]				
	07/07/11 21:30 EST		0	Flash Flood (due to Heavy Rain)
	07/07/11 23:30 EST		0	Source: State Official
Route 50 was closed due to flash flooding west of Capon Bridge.				
A nearly stationary low pressure trough existing in a moist and unstable atmosphere aided in the development of showers and thunderstorms across Hampshire County. Slow storm movement and very high rainfall rates prompted an isolated flash flood near Capon Bridge. A spotter measured 2.80 inches of rain near the event.				
(WV-Z050) HAMPSHIRE, (WV-Z051) MORGAN, (WV-Z055) HARDY, (WV-Z501) WESTERN GRANT, (WV-Z502) EASTERN GRANT, (WV-Z503) WESTERN MINERAL, (WV-Z504) EASTERN MINERAL, (WV-Z505) WESTERN PENDLETON, (WV-Z506) EASTERN PENDLETON				
	07/09/11 02:00 EST		0	Dense Fog
	07/09/11 07:38 EST		0	
Surface high pressure built overhead during the early morning hours of the 9th. Mainly clear skies and light winds combined with high amounts of low-level moisture to produce areas of dense fog.				
JEFFERSON COUNTY --- 1.2 SSW MIDDLEWAY [39.28, -77.99]				
	07/11/11 17:41 EST		0.10M	Thunderstorm Wind (EG 61 kt)
	07/11/11 17:41 EST		0	Source: County Official
Trees were down on homes and vehicles. Route 1 was closed near Hinton Road due to fallen trees.				
JEFFERSON COUNTY --- 1.3 SSW MIDDLEWAY [39.28, -77.99]				
	07/11/11 17:41 EST		0.50K	Thunderstorm Wind (EG 56 kt)
	07/11/11 17:41 EST		0	Source: Trained Spotter
A tree that was four inches in diameter was snapped.				

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
JEFFERSON COUNTY --- 0.3 NW MIDDLEWAY [39.30, -77.98]				
	07/11/11 17:43 EST		5K	Thunderstorm Wind (EG 61 kt)
	07/11/11 17:43 EST		0	Source: Emergency Manager
Several trees were down in Middleway.				
JEFFERSON COUNTY --- 1.3 SSW MIDDLEWAY [39.28, -77.99]				
	07/11/11 17:43 EST		0	Hail (1.00 in)
	07/11/11 17:43 EST		0	Source: Trained Spotter
Quarter sized hail was reported near Middleway.				
JEFFERSON COUNTY --- 0.8 N MIDDLEWAY [39.31, -77.98]				
	07/11/11 17:45 EST		5K	Thunderstorm Wind (EG 56 kt)
	07/11/11 17:45 EST		0	Source: Fire Department/Rescue
Multiple trees were down along Leetown road.				
HAMPSHIRE COUNTY --- 1.1 ENE HAMPSHIRE CLUB [39.31, -78.80]				
	07/11/11 17:59 EST		1K	Thunderstorm Wind (EG 45 kt)
	07/11/11 17:59 EST		0	Source: State Official
A tree fell onto South Branch River Road.				
An upper-level disturbance passed through the area on the 11th. The atmosphere was very unstable due to a hot and humid air mass in place. The combination of forcing from the upper-level disturbance along with high amounts of instability led to the development of showers and thunderstorms. Thunderstorms produced damaging winds and large hail.				
JEFFERSON COUNTY --- 0.9 SSW ENGLE [39.34, -77.79]				
	07/19/11 17:35 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/19/11 17:35 EST		0	Source: NWS Employee
A tree was down in the Meadow Brook Subdivision.				
JEFFERSON COUNTY --- 1.2 NNW HALLTOWN [39.34, -77.81]				
	07/19/11 17:45 EST		2K	Thunderstorm Wind (EG 56 kt)
	07/19/11 17:45 EST		0	Source: Trained Spotter
Large branches were down on several Pear Trees. Shingles were also removed from a home.				
A cold front passed through the area on the 19th. A warm and moist air mass ahead of the boundary caused moderate amounts of instability to develop. The instability combined with forcing from the front to trigger showers and thunderstorms. A couple thunderstorms produced damaging wind gusts.				
(WV-Z504) EASTERN MINERAL				
	07/21/11 12:17 EST		0	Excessive Heat
	07/21/11 17:00 EST		0	
(WV-Z050) HAMPSHIRE, (WV-Z051) MORGAN, (WV-Z504) EASTERN MINERAL				
	07/21/11 14:00 EST		0	Heat
	07/21/11 18:00 EST		0	
Upper-level high pressure provided enough subsidence to cause hot conditions on the 21st. Surface high pressure over the Atlantic caused moist air to move into the region from the south. The combination of the heat and humidity caused heat indices over 105 degrees in some locations.				
(WV-Z050) HAMPSHIRE, (WV-Z055) HARDY, (WV-Z502) EASTERN GRANT, (WV-Z504) EASTERN MINERAL				
	07/22/11 10:00 EST		0	Heat
	07/22/11 17:00 EST		0	
(WV-Z052) BERKELEY, (WV-Z053) JEFFERSON				

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/22/11 10:00 EST		0	Excessive Heat
	07/22/11 14:00 EST		0	

Strong upper-level high pressure built over the region during the 22nd. Surface high pressure over the Atlantic Ocean caused moist air to move into the region from the south. Strong subsidence underneath the upper-level high caused hot conditions with air temperatures near degrees. The combination of the heat and high humidity caused heat indices to soar over 105 degrees.

MORGAN COUNTY --- 1.8 ENE POTOMAC ARPT [39.69, -78.14]

07/22/11 12:56 EST	5K	Thunderstorm Wind (EG 52 kt)
07/22/11 12:56 EST	0	Source: Trained Spotter

Several large trees were down and numerous large branches were down for a two mile stretch in vicinity of River Road.

HAMPSHIRE COUNTY --- 1.0 WNW PURGITSVILLE [39.23, -78.94]

07/22/11 13:12 EST	3K	Thunderstorm Wind (EG 52 kt)
07/22/11 13:12 EST	0	Source: State Official

Trees were down on Huffman Road near Route 220.

HAMPSHIRE COUNTY --- 0.1 W LEVELS [39.48, -78.55]

07/22/11 13:16 EST	1K	Thunderstorm Wind (EG 56 kt)
07/22/11 13:16 EST	0	Source: State Official

A tree was down in Levels near the intersection of Little Cacapon and Levels Roads.

MORGAN COUNTY --- 1.3 SSE BERKELEY SPGS [39.61, -78.22]

07/22/11 13:33 EST	4K	Thunderstorm Wind (EG 52 kt)
07/22/11 13:33 EST	0	Source: Trained Spotter

Seven trees were blown down that were one to two feet in diameter.

HAMPSHIRE COUNTY --- 2.1 NNW POINTS [39.46, -78.64]

07/22/11 13:38 EST	3K	Thunderstorm Wind (EG 52 kt)
07/22/11 13:38 EST	0	Source: State Official

Trees were down near Campbell Road and Springfield Pike.

BERKELEY COUNTY --- HAINESVILLE [39.53, -77.92]

07/22/11 13:51 EST	2K	Thunderstorm Wind (EG 56 kt)
07/22/11 13:51 EST	0	Source: Emergency Manager

Trees were down on St. Andrews Drive near Williamsport Pike and Bedington Road.

BERKELEY COUNTY --- 0.9 SW HAINESVILLE [39.52, -77.93]

07/22/11 13:52 EST	2K	Thunderstorm Wind (EG 56 kt)
07/22/11 13:52 EST	0	Source: State Official

A tree fell onto power lines near the intersection of Williamsport Pike and Railroad Drive.

BERKELEY COUNTY --- 3.2 WNW MARLOWE [39.59, -77.93]

07/22/11 14:00 EST	3K	Thunderstorm Wind (EG 50 kt)
07/22/11 14:00 EST	0	Source: Trained Spotter

Tree branches were down near Grade Road and Vineyard Road.

BERKELEY COUNTY --- 1.0 W FALLING WATERS [39.55, -77.92]

07/22/11 14:03 EST	3K	Thunderstorm Wind (EG 52 kt)
07/22/11 14:03 EST	0	Source: Trained Spotter

Several branches that were six to eight inches in diameter were down. A large tree was knocked onto power lines near the intersection of St. Andrews Drive and Spring Mills Road.

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
GRANT COUNTY --- 2.1 S MAYSVILLE [39.09, -79.17]				
	07/22/11 15:50 EST		0	Thunderstorm Wind (EG 52 kt)
	07/22/11 15:50 EST		0	Source: Trained Spotter
A storm spotter estimated wind gusts to be around 60 mph.				
GRANT COUNTY --- 0.9 E CABINS [39.00, -79.20]				
	07/22/11 16:00 EST		3K	Thunderstorm Wind (EG 52 kt)
	07/22/11 16:00 EST		0	Source: State Official
A few trees were knocked down across the roadway near the intersection Corners Road and North Fork Highway.				
HARDY COUNTY --- 0.9 NNE DURGON [38.99, -79.05]				
	07/22/11 16:20 EST		2K	Thunderstorm Wind (EG 50 kt)
	07/22/11 16:20 EST		0	Source: State Official
Two trees were down across Durgan Road as well as several branches and power lines.				
A hot and humid air mass in place caused high amounts of instability on the 22nd. A stationary boundary triggered showers and thunderstorms. The high amounts of instability caused thunderstorms to produce damaging winds.				
BERKELEY COUNTY --- 0.4 NE HEDGESVILLE [39.55, -77.99]				
	07/29/11 17:58 EST		3K	Thunderstorm Wind (EG 50 kt)
	07/29/11 17:58 EST		0	Source: Fire Department/Rescue
Trees were knocked down onto power lines.				
A weak cold front triggered scattered showers and thunderstorms across eastern West Virginia. Moderate instability ahead of the front caused an isolated thunderstorm to produce damaging winds.				