

Storm Data and Unusual Weather Phenomena - August 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ATLANTIC NORTH				
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 11.3 NE QUANTICO [38.61, -77.16]				
	08/01/11 16:47 EST	0		Marine Thunderstorm Wind (EG 50 kt)
	08/01/11 16:47 EST	0		Source: Unknown
Wind gusts around 50 knots were estimated due to thunderstorm wind damage nearby.				
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 12.4 SSW THOMAS POINT LIGHT [38.73, -76.53]				
	08/01/11 17:40 EST	0		Marine Thunderstorm Wind (EG 45 kt)
	08/01/11 17:55 EST	0		Source: Mesonet
Wind gusts up to 45 knots were estimated near the Herring Bay.				
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 1.1 E BABAR POINT [38.31, -77.01]				
	08/01/11 17:40 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	08/01/11 17:45 EST	0		Source: Unknown
Wind gusts up to 34 knots were estimated near Baber Point.				
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.3 N CUCKOLD CREEK [38.31, -76.93]				
	08/01/11 17:43 EST	0		Marine Thunderstorm Wind (MG 41 kt)
	08/01/11 17:43 EST	0		Source: Mesonet
A wind gust of 41 knots was reported at Cuckold Creek.				
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.4 NE QUANTICO [38.50, -77.31]				
	08/01/11 17:43 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	08/01/11 17:43 EST	0		Source: ASOS
Wind gusts in excess of 30 knots were reported at Quantico.				
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 11.6 W BABAR POINT [38.33, -77.24]				
	08/01/11 17:45 EST	0		Marine Thunderstorm Wind (EG 56 kt)
	08/01/11 17:45 EST	0		Source: Unknown
Wind gusts around 56 knots were estimated due to thunderstorm wind damage nearby.				
CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- 0.3 E CHESAPEAKE BEACH [38.69, -76.53]				
	08/01/11 17:50 EST	0		Marine Thunderstorm Wind (MG 49 kt)
	08/01/11 18:05 EST	0		Source: Mesonet
Wind gusts up to 49 knots were measured at the Chesapeake Rod N Reel.				
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- THOMAS POINT LIGHT [38.90, -76.44]				
	08/01/11 18:00 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	08/01/11 18:00 EST	0		Source: Buoy
Wind gusts in excess of 30 knots were reported at the Thomas Point Lighthouse.				
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 12.4 SSW THOMAS POINT LIGHT [38.73, -76.53]				
	08/01/11 18:40 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	08/01/11 18:40 EST	0		Source: Mesonet
Wind gusts were estimated to be around 34 knots near Herring Bay.				
CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- 0.3 E CHESAPEAKE BEACH [38.69, -76.53]				
	08/01/11 18:45 EST	0		Marine Thunderstorm Wind (MG 63 kt)
	08/01/11 18:50 EST	0		Source: Mesonet
Wind gusts between 50 and 63 knots were measured at the Chesapeake Rod N Reel.				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 0.3 NE POTOMAC BUOY [38.03, -76.34]				
	08/01/11 19:35 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	08/01/11 19:35 EST		0	Source: Mesonet
A wind gust in excess of 30 knots as reported at Cobb Point.				
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- 0.3 S BALTIMORE CITY [39.28, -76.59]				
	08/01/11 19:44 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	08/01/11 19:44 EST		0	Source: Mesonet
A wind gust of 34 knots was measured at Tide Point.				
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 1.1 E BABAR POINT [38.31, -77.01]				
	08/01/11 19:45 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	08/01/11 19:50 EST		0	Source: Mesonet
Wind gusts were estimated to be in excess of 34 knots near Baber Point.				
CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- 0.4 NW SUSQUEHANNA [39.54, -76.07]				
	08/01/11 20:00 EST		0	Marine Thunderstorm Wind (MG 37 kt)
	08/01/11 20:00 EST		0	Source: Buoy
A wind gust of 37 knots was reported at the Susquehanna River Buoy.				
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 18.2 WNW PINEY POINT [38.25, -76.83]				
	08/01/11 20:00 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	08/01/11 20:45 EST		0	Source: Mesonet
Wind gusts up to 36 knots were reported at Cobb Point.				
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- PINEY POINT [38.13, -76.53]				
	08/01/11 20:24 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	08/01/11 20:42 EST		0	Source: Buoy
Wind gusts in excess of 30 knots were reported at Piney Point.				
CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- 0.2 WNW POINT LOOKOUT [38.04, -76.32]				
	08/01/11 20:40 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	08/01/11 20:45 EST		0	Source: Mesonet
Wind gusts up to 35 knots were reported at Point Lookout.				
CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- 1.0 SSE HAVRE DE GRACE [39.54, -76.10]				
	08/01/11 20:49 EST		0	Marine Thunderstorm Wind (EG 42 kt)
	08/01/11 20:54 EST		0	Source: Mesonet
Wind gusts up to 42 knots were estimated near the Havre De Grace Middle School.				
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.2 ENE BABAR POINT [38.31, -77.03]				
	08/01/11 22:40 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	08/01/11 22:45 EST		0	Source: Mesonet
Wind gusts up to 34 knots were reported at Baber Point.				
<p>An upper-level ridge was centered over the southern Plains while an upper-level low was located over central Canada. A northwest flow between these two systems caused colder air aloft to move overhead. Warm and moist air at the surface combined with the colder air aloft to produce moderate amounts of instability. A pressure trough at the surface caused showers and thunderstorms to develop. Moderate instability caused some thunderstorms to produce gusty winds.</p>				
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- 0.4 E MARYLAND SCIENCE CENTER [39.28, -76.60]				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	08/02/11 23:34 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	08/02/11 23:34 EST		0	Source: Mesonet

Wind gust in excess of 30 knots were estimated near the Maryland Science Center.

PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- 0.8 SSW ORIOLE PARK AT CAMDEN YARDS [39.27, -76.62]

	08/02/11 23:34 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	08/02/11 23:34 EST		0	Source: Mesonet

Wind gusts around 34 knots were estimated near Oriole Park at Camden Yards.

PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- 1.6 SSW ORIOLE PARK AT CAMDEN YARDS [39.26, -76.63]

	08/02/11 23:34 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	08/02/11 23:34 EST		0	Source: Mesonet

Wind gusts in excess of 30 knots were estimated near the Lakeland Elementary School.

PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- 0.3 S BALTIMORE CITY [39.28, -76.59]

	08/02/11 23:35 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	08/03/11 00:00 EST		0	Source: Mesonet

Wind gust in excess of 30 knots were reported at Tide Point.

CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 0.2 NNW MILLER ISLAND [39.25, -76.37]

	08/02/11 23:58 EST		0	Marine Thunderstorm Wind (MG 37 kt)
	08/03/11 00:04 EST		0	Source: Mesonet

Wind gusts up to 37 knots were measured at Miller Island.

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

	08/03/11 00:06 EST		0	Marine Thunderstorm Wind (MG 37 kt)
	08/03/11 00:24 EST		0	Source: Mesonet

Wind gusts up to 37 knots were measured at Tolchester Beach.

A pressure trough was located over Maryland during the nighttime and early morning hours of the 2nd and 3rd. Instability ahead of the trough caused a couple thunderstorms to produce gusty winds.

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

	08/07/11 17:40 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	08/07/11 17:40 EST		0	Source: ASOS

Wind gust in excess of 30 knots were reported at Quantico.

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

	08/07/11 18:35 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	08/07/11 18:40 EST		0	Source: Mesonet

Wind gusts in excess of 30 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]

	08/07/11 19:30 EST		0	Marine Thunderstorm Wind (MG 39 kt)
	08/07/11 19:40 EST		0	Source: Mesonet

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

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

	08/07/11 20:29 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	08/07/11 20:29 EST		0	Source: Mesonet

A wind gust of 36 knots was measured at Crisfield.

A cold front passed through the waters on the 7th. Moderate instability ahead of the front caused some thunderstorms to produce

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gusty winds.				
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 11.6 NNE QUANTICO [38.64, -77.20]				
	08/09/11 16:33 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	08/09/11 16:33 EST		0	Source: Mesonet
Wind gusts up to 36 knots were reported at Mason Neck.				
TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 3.8 S WEST POTOMAC HIGH SCHOOL [38.73, -77.07]				
	08/09/11 16:40 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	08/09/11 16:40 EST		0	Source: Buoy
A wind gust of 35 knots was reported at the Upper Potomac Buoy.				
A cold front passed through the waters on the 9th. Moderate instability ahead of the front caused a few thunderstorms to produce gusty winds.				
TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 0.7 E (DCA)REAGAN NATIONAL AIRPORT [38.85, -77.03]				
	08/13/11 11:51 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	08/13/11 11:51 EST		0	Source: ASOS
A wind gust of 34 knots was measured at the Reagan National Airport.				
TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 0.5 W WASHINGTON NATIONALS PARK [38.87, -77.02]				
	08/13/11 11:54 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	08/13/11 12:00 EST		0	Source: Buoy
Wind gusts in excess of 30 knots was measured at the Washington Buoy.				
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- 0.2 NNW MARYLAND SCIENCE CENTER [39.28, -76.61]				
	08/13/11 13:19 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	08/13/11 13:19 EST		0	Source: Mesonet
Wind gusts in excess of 30 knots were estimated at Oriole Park at Camden Yards.				
A stationary boundary remained over the waters during the 13th. Moderate instability ahead of the stationary boundary caused a few thunderstorms to produce gusty winds.				
CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- 0.2 WNW POINT LOOKOUT [38.04, -76.32]				
	08/14/11 09:15 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	08/14/11 09:20 EST		0	Source: Mesonet
Wind gust up to 36 knots were reported at Point Lookout.				
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.1 NNE MONROE CREEK [38.23, -76.95]				
	08/14/11 20:15 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	08/14/11 20:20 EST		0	Source: Mesonet
Wind gusts in excess of 30 knots were reported at Monroe Creek.				
CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- 0.8 SSW PATUXENT RIVER ASOS [38.28, -76.41]				
	08/14/11 20:30 EST		0	Marine Thunderstorm Wind (MG 39 kt)
	08/14/11 20:30 EST		0	Source: ASOS
A wind gust of 39 knots was reported at Patuxent River.				
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 18.2 WNW PINEY POINT [38.25, -76.83]				
	08/14/11 20:30 EST		0	Marine Thunderstorm Wind (MG 37 kt)
	08/14/11 20:40 EST		0	Source: Mesonet
Wind gusts up to 37 knots were reported at Cobb Point.				
TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 0.7 E (DCA)REAGAN NATIONAL AIRPORT [38.85, -77.03]				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	08/14/11 21:22 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	08/14/11 21:22 EST		0	Source: ASOS

A wind gust in excess of 30 knots was reported at the Reagan National Airport.

TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.5 E BISHOPS HEAD [38.22, -76.03]				
	08/14/11 22:06 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	08/14/11 22:06 EST		0	Source: Mesonet

A wind gust of 34 knots was reported at Bishops Head.

CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- 0.4 SSW SMITH ISLAND [37.98, -76.04]				
	08/14/11 22:07 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	08/14/11 22:07 EST		0	Source: Mesonet

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

TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.3 SSE CRISFIELD [37.97, -75.88]				
	08/14/11 22:28 EST		0	Marine Thunderstorm Wind (MG 37 kt)
	08/14/11 22:28 EST		0	Source: Mesonet

A wind gust of 37 knots was reported at Crisfield.

CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- 0.3 E CHESAPEAKE BEACH [38.69, -76.53]				
	08/14/11 22:45 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	08/14/11 22:45 EST		0	Source: Mesonet

A wind gust in excess of 30 knots was reported at the Chesapeake Rod N Reel.

CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.4 SE TOLLY POINT [38.94, -76.44]				
	08/14/11 22:56 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	08/14/11 22:56 EST		0	Source: Mesonet

A wind gust of 36 knots was reported at Tolly Point.

CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- THOMAS POINT LIGHT [38.90, -76.44]				
	08/14/11 23:00 EST		0	Marine Thunderstorm Wind (MG 46 kt)
	08/14/11 23:00 EST		0	Source: Buoy

A wind gust of 46 knots was measured at the Thomas Point Lighthouse.

An upper-level trough was over the waters on the 14th. Colder air aloft due to the upper trough caused moderate amounts of instability to develop. A surface trough triggered showers and thunderstorms and some thunderstorms produced gusty winds due to the instability.

CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- 0.4 SSW SMITH ISLAND [37.98, -76.04]				
	08/15/11 15:47 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	08/15/11 15:47 EST		0	Source: Mesonet

A wind gust in excess of 30 knots was measured Smith Island.

TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 11.6 NNE QUANTICO [38.64, -77.20]				
	08/15/11 18:28 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	08/15/11 18:28 EST		0	Source: Mesonet

A wind gust in excess of 30 knots was measured at Mason Neck.

An upper-level trough triggered showers and thunderstorms over the waters. A few thunderstorms were able to produce gusty winds.

PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- 0.3 S BALTIMORE CITY [39.28, -76.59]				
	08/17/11 17:35 EST		0	Marine Thunderstorm Wind (MG 38 kt)
	08/17/11 17:35 EST		0	Source: Mesonet

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A wind gust of 38 knots was measured at Tide Point.

A trough of low pressure triggered a few showers and thunderstorms over the waters. An isolated thunderstorm produced gusty winds.

PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- 0.3 S BALTIMORE CITY [39.28, -76.59]

08/18/11 16:34 EST	0	Marine Thunderstorm Wind (EG 34 kt)
08/18/11 16:49 EST	0	Source: Mesonet

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

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

08/18/11 18:30 EST	0	Marine Thunderstorm Wind (MG 41 kt)
08/18/11 18:36 EST	0	Source: Buoy

A wind gust of 41 knots was reported at the Baltimore Key Bridge.

A southerly flow around high pressure off the east coast produced hot and humid conditions. The hot and humid conditions combined with colder air aloft associated with an upper-level trough to produce moderate amounts of instability. Thunderstorms developed and a few were able to produce gusty winds over the waters.

CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- COVE POINT [38.43, -76.39]

08/19/11 14:48 EST	0	Marine Thunderstorm Wind (MG 46 kt)
08/19/11 14:48 EST	0	Source: Buoy

A wind gust of 46 knots was measured at Cove Point.

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

08/19/11 16:05 EST	0	Marine Thunderstorm Wind (EG 34 kt)
08/19/11 16:05 EST	0	Source: Mesonet

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

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

08/19/11 18:00 EST	0	Marine Thunderstorm Wind (MG 36 kt)
08/19/11 18:00 EST	0	Source: Buoy

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

CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 4.3 WNW STEVENSVILLE [39.01, -76.40]

08/19/11 18:04 EST	0	Marine Thunderstorm Wind (EG 34 kt)
08/19/11 18:04 EST	0	Source: Mesonet

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

CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.4 SE TOLLY POINT [38.94, -76.44]

08/19/11 18:16 EST	0	Marine Thunderstorm Wind (MG 34 kt)
08/19/11 18:16 EST	0	Source: Mesonet

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

CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.2 S STEVENSVILLE [38.98, -76.33]

08/19/11 18:18 EST	0	Marine Thunderstorm Wind (EG 34 kt)
08/19/11 18:18 EST	0	Source: AWOS

A wind gust in excess of 30 knots was measured at the Stevensville Airport.

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

08/19/11 18:39 EST	0	Marine Thunderstorm Wind (MG 38 kt)
08/19/11 18:39 EST	0	Source: ASOS

A wind gust of 38 knots was measured at the Reagan National Airport.

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CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 12.7 SSW THOMAS POINT LIGHT [38.73, -76.54]				
	08/19/11 18:40 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	08/19/11 18:40 EST		0	Source: Mesonet
A wind gust in excess of 30 knots was measured at the Herring Bay.				
CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- 1.4 E CHESAPEAKE BEACH [38.69, -76.51]				
	08/19/11 18:50 EST		0	Marine Thunderstorm Wind (EG 35 kt)
	08/19/11 19:19 EST		0	Source: Mesonet
A wind gust was estimated around 35 knots near the Chesapeake Rod N Reel.				
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- THOMAS POINT LIGHT [38.90, -76.44]				
	08/19/11 19:00 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	08/19/11 19:00 EST		0	Source: Buoy
A wind gust in excess of 30 knots was measured at the Thomas Point Lighthouse.				
An upper-level trough provided cold air aloft while warm and moist air remained at the surface. Moderate amounts of instability developed during the afternoon and evening hours. Some thunderstorms that developed along and ahead of a pressure trough were able to produce gusty winds.				
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- 1.1 SE BALTIMORE CITY [39.27, -76.58]				
	08/21/11 12:06 EST		0	Marine Thunderstorm Wind (MG 42 kt)
	08/21/11 12:54 EST		0	Source: Buoy
Wind gusts up to 42 knots were measured at the Baltimore Buoy.				
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- 4.7 SE BALTIMORE CITY [39.24, -76.52]				
	08/21/11 12:30 EST		0	Marine Hail (1.25 in)
	08/21/11 12:30 EST		0	Source: Unknown
Half dollar sized hail was estimated.				
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- 4.3 NNW RIVIERA BEACH [39.22, -76.53]				
	08/21/11 12:36 EST		0	Marine Thunderstorm Wind (MG 53 kt)
	08/21/11 13:00 EST		0	Source: Buoy
Wind gusts between 36 and 53 knots were measured at the Baltimore Key Bridge.				
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- 4.7 SE BALTIMORE CITY [39.24, -76.52]				
	08/21/11 12:40 EST		0	Marine Hail (1.00 in)
	08/21/11 12:40 EST		0	Source: Unknown
Quarter sized hail was estimated.				
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- 4.8 NE RIVIERA BEACH [39.21, -76.44]				
	08/21/11 13:20 EST		0	Marine Thunderstorm Wind (EG 52 kt)
	08/21/11 13:20 EST		0	Source: Unknown
Wind gusts were estimated to be around 52 knots based on thunderstorm wind damage nearby.				
CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 6.7 ENE BALTIMORE APPROACHES BUOY [39.21, -76.25]				
	08/21/11 13:54 EST		0	Marine Thunderstorm Wind (MG 42 kt)
	08/21/11 14:06 EST		0	Source: Mesonet
Wind gusts up to 42 knots were measured at Tolchester Beach.				
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 18.2 WNW PINEY POINT [38.25, -76.83]				
	08/21/11 16:20 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	08/21/11 16:30 EST		0	Source: Mesonet

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

TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.1 ESE RACCOON POINT [38.14, -75.79]				
	08/21/11 16:41 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	08/21/11 16:41 EST		0	Source: Mesonet

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

A cold front approached the waters from the Ohio Valley on the 21st. Warm and moist air ahead of the boundary caused an unstable atmosphere. Some thunderstorms ahead of the cold front produced gusty winds.

TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.1 NNE MONROE CREEK [38.23, -76.95]				
	08/25/11 15:50 EST		0	Marine Thunderstorm Wind (MG 49 kt)
	08/25/11 15:55 EST		0	Source: Mesonet

Wind gusts between 47 and 49 knots were measured at Monroe Creek.

TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 1.1 E BABAR POINT [38.31, -77.01]				
	08/25/11 16:05 EST		0	Marine Thunderstorm Wind (EG 52 kt)
	08/25/11 16:25 EST		0	Source: Mesonet

Wind gusts up to 52 knots were estimated near Baber Point.

TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 8.3 W ROUTE 301 BRIDGE [38.37, -77.17]				
	08/25/11 16:09 EST		0	Marine Thunderstorm Wind (EG 56 kt)
	08/25/11 16:09 EST		0	Source: Unknown

Wind gusts around 56 knots were estimated due to thunderstorm wind damage nearby.

TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.2 W POTOMAC LIGHT [38.34, -76.99]				
	08/25/11 16:14 EST		0	Marine Thunderstorm Wind (MG 56 kt)
	08/25/11 16:35 EST		0	Source: Mesonet

Wind gusts between 35 and 56 knots were measured at the Potomac Lighthouse.

TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.3 N CUCKOLD CREEK [38.31, -76.93]				
	08/25/11 16:22 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	08/25/11 16:22 EST		0	Source: Mesonet

A wind gust of 36 knots was measured at Cuckold Creek.

TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 18.2 WNW PINEY POINT [38.25, -76.83]				
	08/25/11 16:30 EST		0	Marine Thunderstorm Wind (MG 55 kt)
	08/25/11 16:45 EST		0	Source: Mesonet

Wind gusts between 35 and 55 knots were reported at Cobb Point.

TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- PINEY POINT [38.13, -76.53]				
	08/25/11 16:54 EST		0	Marine Thunderstorm Wind (MG 40 kt)
	08/25/11 17:30 EST		0	Source: Mesonet

Wind gusts up to 40 knots were measured at Piney Point.

PATUXENT RIVER TO BROOMES ISLAND MD COUNTY --- 0.2 SSW CHESAPEAKE BIOLOGICAL LABORATORY [38.32, -76.45]				
	08/25/11 17:12 EST		0	Marine Thunderstorm Wind (MG 47 kt)
	08/25/11 17:18 EST		0	Source: Buoy

Wind gusts between 38 and 47 knots were measured at Solomons Island.

CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- 1.4 ESE PATUXENT RIVER ASOS [38.29, -76.39]				
	08/25/11 17:13 EST		0	Marine Thunderstorm Wind (EG 49 kt)
	08/25/11 17:13 EST		0	Source: ASOS

Storm Data and Unusual Weather Phenomena - August 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A wind gust of 49 knots was estimated near the Patuxent River Air Station.

CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- COVE POINT [38.43, -76.39]

08/25/11 17:24 EST	0	Marine Thunderstorm Wind (MG 37 kt)
08/25/11 17:24 EST	0	Source: Buoy

A wind gust of 37 knots was measured at Cove Point.

CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- 0.2 WNW POINT LOOKOUT [38.04, -76.32]

08/25/11 17:40 EST	0	Marine Thunderstorm Wind (EG 34 kt)
08/25/11 17:55 EST	0	Source: Mesonet

Wind gusts in excess of 30 knots was measured at Point Lookout.

TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.1 NE BISHOPS HEAD [38.22, -76.04]

08/25/11 17:42 EST	0	Marine Thunderstorm Wind (MG 40 kt)
08/25/11 18:36 EST	0	Source: Mesonet

Wind gusts up to 40 knots were measured at Bishops Head.

TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.5 E BISHOPS HEAD [38.22, -76.03]

08/25/11 17:45 EST	0	Marine Thunderstorm Wind (MG 40 kt)
08/25/11 17:45 EST	0	Source: Mesonet

A wind gust of 48 knots was measured at Bishops Head.

TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.4 SSW SMITH ISLAND [37.98, -76.04]

08/25/11 18:08 EST	0	Marine Thunderstorm Wind (EG 34 kt)
08/25/11 18:08 EST	0	Source: Mesonet

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

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

08/25/11 18:17 EST	0	Marine Thunderstorm Wind (MG 39 kt)
08/25/11 18:17 EST	0	Source: Mesonet

A wind gust of 39 knots was measured at Crisfield.

TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.1 ESE RACCOON POINT [38.14, -75.79]

08/25/11 18:30 EST	0	Marine Thunderstorm Wind (EG 34 kt)
08/25/11 18:30 EST	0	Source: Mesonet

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

TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.5 E BISHOPS HEAD [38.22, -76.03]

08/25/11 18:36 EST	0	Marine Thunderstorm Wind (EG 34 kt)
08/25/11 18:36 EST	0	Source: Mesonet

A wind gust in excess of 30 knots was measured at Bishops Head.

A cold front passed moved into the waters on the 25th. Tropical moisture ahead of the front caused moderate amounts of instability to develop. Thunderstorms that developed ahead of the cold front were able to produce gusty winds.

DISTRICT OF COLUMBIA

DISTRICT OF COLUMBIA COUNTY --- 0.9 WNW TENLEYTOWN [38.96, -77.08]

08/21/11 14:04 EST	0	Thunderstorm Wind (EG 50 kt)
08/21/11 14:04 EST	0	Source: Public

A tree was down in the Friendship Heights area.

Storm Data and Unusual Weather Phenomena - August 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
DISTRICT OF COLUMBIA COUNTY --- 1.6 N TENLEYTOWN [38.97, -77.06]				
	08/21/11 14:12 EST		1K	Thunderstorm Wind (EG 52 kt)
	08/21/11 14:12 EST		0	Source: Emergency Manager
A tree was down on Utah Avenue Northwest.				
A cold front approached the area from the Ohio Valley on the 21st. Warm and moist air ahead of the boundary caused an unstable atmosphere. A couple thunderstorms ahead of the cold front produced damaging winds.				
(DC-Z001) DISTRICT OF COLUMBIA				
	08/27/11 15:00 EST		2.40M	Tropical Storm
	08/28/11 09:00 EST		0	
Hurricane Irene tracked up the Mid-Atlantic Coast during the evening hours of the 27th through the early morning hours of the 28th. Irene passed by just to the east of Ocean City, Maryland during the early morning hours of the 28th. The minimum central pressure was 958 millibars and maximum sustained winds were 80 mph, making Irene a category one hurricane. Irene produced tropical storm conditions across Washington DC during the afternoon hours of the 27th and lasting into the early morning hours of the 28th.				
The highest rainfall total was 4.44 inches at the National Arboretum. Numerous trees and power lines were down causing an estimated 2.4 million dollars in damage.				
DISTRICT OF COLUMBIA COUNTY --- 1.2 NW ANACOSTIA [38.88, -76.99], 1.3 W ANACOSTIA [38.87, -76.99], 0.1 SSE US CAPITOL [38.88, -77.02], 0.5 NNW US CAPITOL [38.89, -77.02]				
	08/28/11 01:30 EST		0	Flood (due to Heavy Rain)
	08/28/11 07:00 EST		0	Source: Department of Highways
Portions of the Southeast and Southwest Freeways were closed due to high standing water. Rainfall amounts near this area were reported as high as 3.31 inches.				
Hurricane Irene tracked up the Mid-Atlantic Coast during the afternoon and evening hours of the 27th. Heavy rains associated with Irene and her rainbands fell over the District of Columbia. By early morning on the 28th, flooding occurred on the saturated ground in the area. The highest rainfall total reported in the District of Columbia was 4.44 inches at the National Arboretum.				
MARYLAND, Central				
PRINCE GEORGE'S COUNTY --- 0.7 NE COLLEGE PARK [38.99, -76.94]				
	08/01/11 16:32 EST		0	Hail (1.00 in)
	08/01/11 16:32 EST		0	Source: Trained Spotter
Hail to the size of quarters was reported near College Park.				
PRINCE GEORGE'S COUNTY --- 0.7 NE COLLEGE PARK [38.99, -76.94]				
	08/01/11 16:32 EST		0	Thunderstorm Wind (EG 50 kt)
	08/01/11 16:32 EST		0	Source: Trained Spotter
Tree branches that were two to three inches in diameter were blown down.				
PRINCE GEORGE'S COUNTY --- 1.5 NNW BRANCHVILLE [39.02, -76.94]				
	08/01/11 16:38 EST		1K	Thunderstorm Wind (EG 50 kt)
	08/01/11 16:38 EST		0	Source: Other Federal Agency
A large tree was down at Knights of Columbus in College Park.				
CHARLES COUNTY --- 0.8 ESE INDIAN HEAD [38.60, -77.16]				
	08/01/11 16:47 EST		1K	Thunderstorm Wind (EG 50 kt)
	08/01/11 16:47 EST		0	Source: State Official
A tree was toppled over a vehicle along Oakside Lane.				
CHARLES COUNTY --- 0.5 SSW MASON SPGS [38.57, -77.12]				

Storm Data and Unusual Weather Phenomena - August 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	08/01/11 16:51 EST		3K	Thunderstorm Wind (EG 50 kt)
	08/01/11 16:51 EST		0	Source: State Official
Trees were down along Gilwell Place.				
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CHARLES COUNTY --- 0.2 SW BRYANS ROAD [38.63, -77.07]	08/01/11 16:53 EST		1K	Thunderstorm Wind (EG 50 kt)
	08/01/11 16:53 EST		0	Source: State Official
A tree was down at the Safeway Store along Matthews Road.				
<hr/>				
CHARLES COUNTY --- 1.0 NNE MC CONCHIE [38.51, -77.06]	08/01/11 17:03 EST		1K	Thunderstorm Wind (EG 50 kt)
	08/01/11 17:03 EST		0	Source: State Official
A tree was down along Ironsides Road.				
<hr/>				
CHARLES COUNTY --- 1.0 NNE MC CONCHIE [38.51, -77.06]	08/01/11 17:03 EST		2K	Thunderstorm Wind (EG 50 kt)
	08/01/11 17:03 EST		0	Source: State Official
Trees were down near the intersection of Burch Road and Poorhouse Road.				
<hr/>				
MONTGOMERY COUNTY --- 1.5 E ASHTON [39.15, -76.99]	08/01/11 17:17 EST		1K	Thunderstorm Wind (EG 52 kt)
	08/01/11 17:17 EST		0	Source: Public
A tree that was two feet in diameter was blocking the road.				
<hr/>				
MONTGOMERY COUNTY --- 1.2 NNE EDNOR [39.15, -76.99]	08/01/11 17:18 EST		0	Thunderstorm Wind (EG 52 kt)
	08/01/11 17:18 EST		0	Source: Trained Spotter
Multiple small branches were down.				
<hr/>				
MONTGOMERY COUNTY --- 1.6 NNE EDNOR [39.15, -76.99]	08/01/11 17:18 EST		1K	Thunderstorm Wind (EG 52 kt)
	08/01/11 17:18 EST		0	Source: Trained Spotter
A tree that was twelve inches in diameter was blocking Tucker Lane.				
<hr/>				
ANNE ARUNDEL COUNTY --- 0.5 SSW DEALE [38.77, -76.55]	08/01/11 17:32 EST		0	Thunderstorm Wind (EG 50 kt)
	08/01/11 17:32 EST		0	Source: Trained Spotter
Several tree branches were down.				
<hr/>				
ANNE ARUNDEL COUNTY --- 0.4 WNW LEITCH [38.77, -76.58]	08/01/11 17:35 EST		0	Thunderstorm Wind (EG 52 kt)
	08/01/11 17:35 EST		0	Source: Public
Part of a large maple tree was blown down.				
<hr/>				
ANNE ARUNDEL COUNTY --- 0.6 NNE NUTWELL [38.79, -76.58]	08/01/11 17:35 EST		2K	Thunderstorm Wind (EG 52 kt)
	08/01/11 17:35 EST		0	Source: Public
Numerous poplar trees were torn off at the top.				
<hr/>				
ANNE ARUNDEL COUNTY --- 0.7 N NUTWELL [38.79, -76.58]	08/01/11 17:35 EST		5K	Thunderstorm Wind (EG 52 kt)
	08/01/11 17:35 EST		0	Source: Public

Storm Data and Unusual Weather Phenomena - August 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Several trees were down including large trees completely blocking Rockhold Creek Road.

CALVERT COUNTY --- 0.5 W NORTH BEACH [38.70, -76.54]				
	08/01/11 18:40 EST		1K	Thunderstorm Wind (EG 61 kt)
	08/01/11 18:40 EST		0	Source: State Official

A tree was down near the intersection of MD 260 and G Street.

CALVERT COUNTY --- 0.4 NNW CHESAPEAKE BEACH [38.69, -76.53]				
	08/01/11 18:42 EST		0.10M	Thunderstorm Wind (EG 61 kt)
	08/01/11 18:42 EST	2	0	Source: State Official

Trees were across Chesapeake Beach. A tree fell onto a house and another tree fell onto a car. There were two minor injuries due to the fallen trees.

CALVERT COUNTY --- 0.6 NNW NORTH BEACH [38.71, -76.53]				
	08/01/11 18:43 EST		2K	Thunderstorm Wind (EG 56 kt)
	08/01/11 18:43 EST		0	Source: Public

Large limbs that were six inches in diameter were blown down. A large wooden fence was also blown down in North Beach.

CALVERT COUNTY --- 0.7 SSW NORTH BEACH [38.69, -76.53]				
	08/01/11 18:45 EST		0	Thunderstorm Wind (MG 63 kt)
	08/01/11 18:45 EST		0	Source: Mesonet

A wind gust of 72 mph was measured at Chesapeake Beach.

An upper-level ridge was centered over the southern Plains while an upper-level low was located over central Canada. A northwest flow between these two systems caused colder air aloft to move overhead. Warm and moist air at the surface combined with the colder air aloft to produce moderate amounts of instability. A pressure trough at the surface caused showers and thunderstorms to develop. Moderate instability caused some thunderstorms to produce damaging wind gusts and large hail.

HARFORD COUNTY --- 0.9 NW BEL AIR [39.54, -76.36]				
	08/02/11 23:54 EST		0.10M	Thunderstorm Wind (EG 56 kt)
	08/02/11 23:54 EST		0	Source: Emergency Manager

Many large trees were down and snapped between Vale Road and Williams Street. Five cars were damaged by falling trees.

HARFORD COUNTY --- 1.1 NNW BEL AIR [39.54, -76.36]				
	08/02/11 23:54 EST		10K	Thunderstorm Wind (EG 56 kt)
	08/02/11 23:54 EST		0	Source: Emergency Manager

Many large trees were down near Hall Street.

A pressure trough was located over Maryland during the nighttime and early morning hours of the 2nd and 3rd. Instability ahead of the trough caused a couple thunderstorms to produce damaging wind gusts.

ANNE ARUNDEL COUNTY --- 0.6 ENE SEVERN [39.13, -76.69]				
	08/09/11 15:43 EST		1K	Thunderstorm Wind (EG 52 kt)
	08/09/11 15:43 EST		0	Source: Trained Spotter

A tree was blown down onto power line.

A cold front passed through Maryland during the 9th. Moderate instability ahead of the front caused an isolated thunderstorm to produce damaging wind gusts.

BALTIMORE COUNTY --- 0.2 NNW DUNDALK [39.27, -76.52]				
	08/13/11 13:17 EST		5K	Thunderstorm Wind (EG 61 kt)
	08/13/11 13:17 EST		0	Source: NWS Employee

Trees were down from Cedar Street to Norwood Elementary School. Minor damage was reported to siding and shingles.

A stationary boundary remained over the region during the 13th. Moderate instability ahead of the stationary boundary caused an isolated thunderstorm to produce damaging wind gusts.

Storm Data and Unusual Weather Phenomena - August 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
BALTIMORE COUNTY --- 1.3 WNW WOODLAWN [39.33, -76.75], 1.1 NW WOODLAWN [39.33, -76.75], 0.8 WNW WOODLAWN [39.32, -76.75], 1.2 WNW WOODLAWN [39.33, -76.75]				
	08/14/11 09:22 EST		0	Flash Flood (due to Heavy Rain)
	08/14/11 12:00 EST		0	Source: State Official
The intersection of Rutherford Road and Ambassador Road were closed due to flash flooding. A nearby spotter measured 3.13 inches of rain.				
BALTIMORE COUNTY --- 0.7 SSW POPLAR [39.34, -76.45], 0.7 SSW POPLAR [39.34, -76.46], 0.4 S POPLAR [39.34, -76.45], 0.5 S POPLAR [39.34, -76.45]				
	08/14/11 10:00 EST		0	Flood (due to Heavy Rain)
	08/14/11 12:00 EST		0	Source: Fire Department/Rescue
Flooding was reported in the 500 block of Compass Road. A nearby rain gage observed 2.29 inches.				
BALTIMORE COUNTY --- 2.6 NW SPARROWS PT [39.30, -76.61], 1.5 NNW SPARROWS PT [39.29, -76.59], 2.7 WNW SPARROWS PT [39.29, -76.63], 3.8 NW SPARROWS PT [39.31, -76.63]				
	08/14/11 11:00 EST		0	Flash Flood (due to Heavy Rain)
	08/14/11 13:00 EST		0	Source: Broadcast Media
Numerous high water rescues were performed. A rain gage in the city recorded 2.47 inches.				
FREDERICK COUNTY --- 0.9 SE ADAMSTOWN [39.31, -77.47], 0.4 ESE ADAMSTOWN [39.32, -77.47], 0.5 S ADAMSTOWN [39.31, -77.48], 0.9 S ADAMSTOWN [39.31, -77.48]				
	08/14/11 21:00 EST		0	Flash Flood (due to Heavy Rain)
	08/14/11 23:00 EST		0	Source: State Official
Several roads were closed due to high water.				
MONTGOMERY COUNTY --- 1.1 W PARKWOOD [39.02, -77.10], 0.7 WSW PARKWOOD [39.02, -77.09], 1.0 WSW PARKWOOD [39.01, -77.10], 1.3 W PARKWOOD [39.02, -77.10]				
	08/14/11 21:00 EST		0	Flash Flood (due to Heavy Rain)
	08/14/11 23:00 EST		0	Source: Department of Highways
Portions of Interstate 495 and 270 Interchange were closed due to high water from Rock Creek. A nearby rain gage recorded 2.40 inches.				
MONTGOMERY COUNTY --- NORTHWEST PARK [39.02, -76.98], 0.2 NNE NORTHWEST PARK [39.02, -76.98], 0.3 NE NORTHWEST PARK [39.02, -76.98], 0.4 SE NORTHWEST PARK [39.02, -76.98], 0.3 SSE NORTHWEST PARK [39.02, -76.98]				
	08/14/11 21:12 EST		0	Flash Flood (due to Heavy Rain)
	08/14/11 23:00 EST		0	Source: Department of Highways
Several lanes of Route 650 were closed at Interstate 495. Rainfall in the area was measured at 2.23 inches.				
PRINCE GEORGE'S COUNTY --- 0.9 SW AMMENDALE [39.04, -76.91], 0.5 NW BELTSVILLE [39.04, -76.91], 0.5 NNW BELTSVILLE [39.04, -76.90], 0.7 NNW BELTSVILLE [39.04, -76.91]				
	08/14/11 21:17 EST		0	Flash Flood (due to Heavy Rain)
	08/14/11 23:00 EST		0	Source: State Official
The intersection of Baltimore Avenue and Prince Georges Avenue was closed due to flooding. A nearby spotter observed 2.82 inches of rain.				
MONTGOMERY COUNTY --- 0.7 S GAITHERSBURG [39.12, -77.20], 0.5 SSE GAITHERSBURG [39.12, -77.19], 0.2 S GAITHERSBURG [39.13, -77.20], 0.4 SSW GAITHERSBURG [39.13, -77.20]				
	08/14/11 21:30 EST		0	Flash Flood (due to Heavy Rain)
	08/14/11 23:00 EST		0	Source: Department of Highways
Southbound Interstate 270 closed near Interstate 370 due to high water. A spotter nearby measured 3.52 inches of rain.				
PRINCE GEORGE'S COUNTY --- 0.5 W BERWYN [38.98, -76.94], 0.4 WNW BERWYN [38.98, -76.94], 0.4 WNW BERWYN [38.98, -76.94], 0.5 WNW BERWYN [38.98, -76.94]				
	08/14/11 21:30 EST		0	Flash Flood (due to Heavy Rain)
	08/14/11 23:00 EST		0	Source: Department of Highways

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Southbound Route 1 was closed at College Avenue due to high water. A rain gage nearby measured 2.70 inches.

PRINCE GEORGE'S COUNTY --- 1.4 N BRANCHVILLE [39.02, -76.93], 1.6 N BRANCHVILLE [39.02, -76.93], 1.4 N BRANCHVILLE [39.02, -76.93], 1.3 N BRANCHVILLE [39.02, -76.93]

	08/14/11 21:30 EST		0	Flash Flood (due to Heavy Rain)
	08/14/11 23:00 EST		0	Source: Department of Highways

Two lanes of northbound Interstate 95 were closed at Exit 25 due to high water.

MONTGOMERY COUNTY --- 0.9 SW PURDUM [39.27, -77.24], 1.1 SSW PURDUM [39.27, -77.24], 1.0 SSW PURDUM [39.27, -77.23], 0.4 S PURDUM [39.27, -77.23]

	08/14/11 21:40 EST		0	Flash Flood (due to Heavy Rain)
	08/14/11 23:00 EST		0	Source: NWS Employee

Water was flowing across a bridge on Kings Valley Road. Rain measured 2.72 inches in 45 minutes.

ANNE ARUNDEL COUNTY --- 0.4 ESE ARUNDEL GARDENS [39.20, -76.61], 0.4 ESE ARUNDEL GARDENS [39.20, -76.61], 0.3 ESE ARUNDEL GARDENS [39.20, -76.61], 0.4 ESE ARUNDEL GARDENS [39.20, -76.61]

	08/15/11 07:30 EST		0	Flash Flood (due to Heavy Rain)
	08/15/11 09:00 EST		0	Source: State Official

One to 1.5 feet of water forced the closure of Ritchie Highway and Shelley Road. A spotter in the area measured 1.36 inches of rain.

ANNE ARUNDEL COUNTY --- 0.5 SE NORTH LINTHICUM [39.22, -76.64], 0.5 SE NORTH LINTHICUM [39.22, -76.64], 0.6 SE NORTH LINTHICUM [39.21, -76.64], 0.5 SSE NORTH LINTHICUM [39.21, -76.64]

	08/15/11 07:30 EST		0	Flash Flood (due to Heavy Rain)
	08/15/11 09:00 EST		0	Source: State Official

Twelve to 18 inches of water forced closure of Belle Grove and Camp Mead Roads. A nearby rain gage measured 1.88 inches.

ANNE ARUNDEL COUNTY --- 0.7 N BROOKLYN PARK [39.23, -76.62], 0.3 NNW BROOKLYN PARK [39.22, -76.62], 0.4 NW BROOKLYN PARK [39.23, -76.62], 0.6 NNW BROOKLYN PARK [39.23, -76.62]

	08/15/11 07:30 EST		0	Flash Flood (due to Heavy Rain)
	08/15/11 09:00 EST		0	Source: State Official

Twelve to 18 inches of water forced the closure of 10th Avenue and Belle Grove Road. A nearby rain gage tallied 1.68 inches.

ANNE ARUNDEL COUNTY --- RAYNOR HGTS [39.22, -76.67], 0.4 NE RAYNOR HGTS [39.22, -76.66], 0.5 NE RAYNOR HGTS [39.23, -76.66], 0.3 N RAYNOR HGTS [39.22, -76.67]

	08/15/11 07:30 EST		0	Flash Flood (due to Heavy Rain)
	08/15/11 09:00 EST		0	Source: State Official

One to 1.5 feet of water forced the closed of Nursey Road and Hammonds Ferry Road. A spotter nearby recorded 2.20 inches of rain.

BALTIMORE COUNTY --- 0.9 NE BALTIMORE HIGHLANDS [39.24, -76.64], 0.8 NE BALTIMORE HIGHLANDS [39.24, -76.64], 0.8 NE BALTIMORE HIGHLANDS [39.24, -76.64], 0.8 NE BALTIMORE HIGHLANDS [39.24, -76.64]

	08/15/11 07:30 EST		0	Flash Flood (due to Heavy Rain)
	08/15/11 09:00 EST		0	Source: State Official

One to 1.5 feet of water forced the closure of Maple Road and Route 648. A nearby rain gage measured 2.83 inches.

BALTIMORE COUNTY --- 1.3 ENE BALTIMORE HIGHLANDS [39.24, -76.63], 1.3 NE BALTIMORE HIGHLANDS [39.24, -76.63], 1.4 NE BALTIMORE HIGHLANDS [39.24, -76.63], 1.5 NE BALTIMORE HIGHLANDS [39.24, -76.63]

	08/15/11 08:20 EST		0	Flash Flood (due to Heavy Rain)
	08/15/11 09:30 EST		0	Source: Newspaper

Over two inches of rain caused an apartment complex to flood. Thirty-four people were rescued by firefighters.

BALTIMORE COUNTY --- 3.3 WNW SPARROWS PT [39.28, -76.64], 3.4 WNW SPARROWS PT [39.28, -76.64], 3.5 WNW SPARROWS PT [39.28, -76.64], 3.4 WNW SPARROWS PT [39.28, -76.64]

	08/15/11 08:25 EST		0	Flash Flood (due to Heavy Rain)
	08/15/11 10:00 EST		0	Source: State Official

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
South Gilmore Street was closed due to high water.				
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]				
	08/15/11 08:30 EST		0	Flash Flood (due to Heavy Rain)
	08/15/11 09:30 EST		0	Source: Department of Highways
West Patapsco Road was closed due to high water.				
BALTIMORE COUNTY --- 2.1 NE BALTIMORE HIGHLANDS [39.25, -76.62], 2.2 SW SPARROWS PT [39.25, -76.61], 2.0 ENE BALTIMORE HIGHLANDS [39.25, -76.62], 1.9 NE BALTIMORE HIGHLANDS [39.25, -76.62]				
	08/15/11 08:30 EST		0	Flash Flood (due to Heavy Rain)
	08/15/11 09:30 EST		0	Source: Department of Highways
Reedbird Road was closed due to high water.				
BALTIMORE COUNTY --- 2.1 NNE BALTIMORE HIGHLANDS [39.26, -76.64], 2.3 NNE BALTIMORE HIGHLANDS [39.26, -76.64], 2.3 NNE BALTIMORE HIGHLANDS [39.26, -76.63], 2.1 NNE BALTIMORE HIGHLANDS [39.26, -76.64]				
	08/15/11 08:30 EST		0	Flash Flood (due to Heavy Rain)
	08/15/11 09:30 EST		0	Source: Department of Highways
Annapolis Road was closed at Waterview Road and Route 295.				
BALTIMORE COUNTY --- 2.7 E CATONSVILLE MANOR [39.30, -76.67], 3.0 E CATONSVILLE MANOR [39.30, -76.66], 2.9 E CATONSVILLE MANOR [39.30, -76.67], 2.9 E CATONSVILLE MANOR [39.30, -76.67]				
	08/15/11 08:44 EST		0	Flash Flood (due to Heavy Rain)
	08/15/11 10:00 EST		0	Source: State Official
Bloomingdale Road was closed due to high water.				
BALTIMORE COUNTY --- 3.2 SSE BARE HILLS [39.31, -76.65], 3.3 SSE BARE HILLS [39.31, -76.65], 3.4 SSE BARE HILLS [39.31, -76.65], 3.4 SSE BARE HILLS [39.31, -76.65]				
	08/15/11 09:09 EST		0	Flash Flood (due to Heavy Rain)
	08/15/11 10:30 EST		0	Source: State Official
North Fulton Avenue was closed due to high water.				
BALTIMORE COUNTY --- 1.8 ENE BALTIMORE HIGHLANDS [39.24, -76.62], 1.5 NE BALTIMORE HIGHLANDS [39.24, -76.63], 1.6 NE BALTIMORE HIGHLANDS [39.24, -76.63], 1.7 ENE BALTIMORE HIGHLANDS [39.24, -76.62]				
	08/15/11 12:30 EST		0	Flash Flood (due to Heavy Rain)
	08/15/11 14:00 EST		0	Source: Newspaper
Police were evacuating areas of Spelman Road. Basements were reported flooded with over 5 feet of water.				
Deep layer southerly flow advected a moist, tropical airmass into the Mid-Atlantic. As low pressure approached from the west, periods of heavy rain and thunderstorms moved across Maryland. Flash flooding occurred in a number of places, with rainfall totals as high as 4.75 inches in Baltimore County.				
ALLEGANY COUNTY --- 1.6 N NORTH BRANCH [39.60, -78.73]				
	08/14/11 16:58 EST		1K	Thunderstorm Wind (EG 52 kt)
	08/14/11 16:58 EST		0	Source: Trained Spotter
Large tree limbs fell off of pine trees due to thunderstorm winds.				
WASHINGTON COUNTY --- 0.6 WNW STONEBRAKER [39.35, -77.69]				
	08/14/11 18:57 EST		2K	Thunderstorm Wind (EG 61 kt)
	08/14/11 18:57 EST		0	Source: State Official
Trees were down on Garretts Mill Road.				
FREDERICK COUNTY --- 0.7 NW ROSEMONT [39.34, -77.64]				

Storm Data and Unusual Weather Phenomena - August 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	08/14/11 19:00 EST		5K	Thunderstorm Wind (EG 61 kt)
	08/14/11 19:00 EST		0	Source: Department of Highways
The intersection of Jefferson Pike and Burkittsville road was closed due to downed trees.				
<hr/>				
FREDERICK COUNTY --- 0.9 SE BRUNSWICK [39.31, -77.62]				
	08/14/11 19:00 EST		2K	Thunderstorm Wind (EG 56 kt)
	08/14/11 19:00 EST		0	Source: Public
Trees were down along side of the RR and C&O Canal.				
<hr/>				
FREDERICK COUNTY --- 1.2 SSE CATOCTIN [39.30, -77.54]				
	08/14/11 19:22 EST		5K	Thunderstorm Wind (EG 52 kt)
	08/14/11 19:22 EST		0	Source: Department of Highways
Trees were down over the roadway at the intersection of Maryland Route 464 at Lander Road.				
<hr/>				
FREDERICK COUNTY --- 1.9 WNW CATOCTIN [39.33, -77.58]				
	08/14/11 19:22 EST		5K	Thunderstorm Wind (EG 61 kt)
	08/14/11 19:22 EST		0	Source: Fire Department/Rescue
Numerous trees were down along and near Route 464 between Brunswick and Jefferson.				
<hr/>				
MONTGOMERY COUNTY --- 1.2 SW DAWSONVILLE [39.12, -77.37]				
	08/14/11 20:22 EST		1K	Thunderstorm Wind (EG 50 kt)
	08/14/11 20:22 EST		0	Source: Public
Small branches and limbs were down.				
<hr/>				
MONTGOMERY COUNTY --- 1.1 SW OLNEY [39.14, -77.08]				
	08/14/11 20:48 EST		0	Thunderstorm Wind (EG 50 kt)
	08/14/11 20:48 EST		0	Source: Trained Spotter
Two trees in Cherrywood Park were snapped off around four feet above the ground.				
An upper-level trough was over the region on the 14th. Colder air aloft due to the upper trough caused moderate amounts of instability to develop. A surface trough triggered showers and thunderstorms and some thunderstorms produced damaging wind gusts due to the moderate instability.				
<hr/>				
ANNE ARUNDEL COUNTY --- 0.9 SSW PIONEER CITY [39.12, -76.73]				
	08/18/11 15:50 EST		0	Hail (1.00 in)
	08/18/11 15:50 EST		0	Source: COOP Observer
Quarter sized hail was reported in Fort Meade.				
<hr/>				
ANNE ARUNDEL COUNTY --- 1.1 S SEVERN [39.11, -76.70]				
	08/18/11 16:08 EST		0	Thunderstorm Wind (EG 52 kt)
	08/18/11 16:08 EST		0	Source: Trained Spotter
Wind gusts were estimated to be around 60 mph.				
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ANNE ARUNDEL COUNTY --- 1.1 S SEVERN [39.11, -76.70]				
	08/18/11 16:08 EST		0	Thunderstorm Wind (EG 52 kt)
	08/18/11 16:08 EST		0	Source: Trained Spotter
Wind gusts were estimated to be around 60 mph. A couple of tree branches were down.				
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CARROLL COUNTY --- 1.8 NE MT AIRY [39.40, -77.13]				
	08/18/11 16:26 EST		0	Hail (1.00 in)
	08/18/11 16:26 EST		0	Source: Other Federal Agency
Hail up to quarters in size was reported near Mount Airy.				

Storm Data and Unusual Weather Phenomena - August 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
HARFORD COUNTY --- 0.6 NW EMMORTON [39.51, -76.33]				
	08/18/11 16:26 EST		1K	Thunderstorm Wind (EG 50 kt)
	08/18/11 16:26 EST		0	Source: Trained Spotter
A tree was blocking the roadway near Patterson Mill Road and Route 924.				
HARFORD COUNTY --- 0.9 ENE EMMORTON [39.50, -76.30]				
	08/18/11 16:34 EST		0	Hail (1.75 in)
	08/18/11 16:34 EST		0	Source: Public
Hail up to the size of golf balls was reported.				
HARFORD COUNTY --- 1.9 SW CALVARY [39.51, -76.27]				
	08/18/11 16:36 EST		1K	Thunderstorm Wind (EG 56 kt)
	08/18/11 16:36 EST		0	Source: State Official
A tree was down along MD-543 and Calvary Road.				
ANNE ARUNDEL COUNTY --- 0.8 NW CONAWAYS [39.03, -76.71]				
	08/18/11 16:40 EST		15K	Thunderstorm Wind (EG 56 kt)
	08/18/11 16:40 EST		0	Source: Public
A tree was blown onto a garage crushing the roof. A car was also damaged in the garage. Multiple 150 year old trees were blown down.				
HARFORD COUNTY --- 0.6 SSW CALVARY [39.52, -76.25]				
	08/18/11 16:40 EST		0	Hail (1.00 in)
	08/18/11 16:40 EST		0	Source: Public
Quarter sized hail was reported.				
HARFORD COUNTY --- 0.4 ENE PLEASANTVILLE [39.57, -76.42]				
	08/18/11 16:43 EST		1K	Thunderstorm Wind (EG 50 kt)
	08/18/11 16:43 EST		0	Source: State Official
A tree was down along High Point Road.				
HARFORD COUNTY --- 1.3 ESE SINGER [39.47, -76.31]				
	08/18/11 16:53 EST		0	Lightning
	08/18/11 16:53 EST	1	0	Source: Fire Department/Rescue
A person was injured by lightning while using an ATM machine.				
HARFORD COUNTY --- 0.5 WNW LAPIDUM [39.60, -76.14]				
	08/18/11 17:00 EST		0	Hail (1.75 in)
	08/18/11 17:00 EST		0	Source: State Official
Golf ball sized hail was reported at the Steppingstone Museum.				
HARFORD COUNTY --- 2.0 NW HAVRE DE GRACE [39.57, -76.13]				
	08/18/11 17:01 EST		0	Hail (1.00 in)
	08/18/11 17:01 EST		0	Source: Public
Hail up to quarters in size was reported.				
BALTIMORE COUNTY --- 2.6 S PLEASANT GROVE [39.53, -76.78]				
	08/18/11 17:12 EST		0	Hail (1.00 in)
	08/18/11 17:12 EST		0	Source: Public
Quarter sized hail was reported near Boring.				
ANNE ARUNDEL COUNTY --- 1.3 E MAYFIELD [39.10, -76.66]				

Storm Data and Unusual Weather Phenomena - August 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	08/18/11 17:15 EST		1K	Thunderstorm Wind (EG 52 kt)
	08/18/11 17:15 EST		0	Source: Public
A tree that was one to one and one half feet in diameter was blown down.				
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MONTGOMERY COUNTY --- 0.8 SSW WHEATON [39.04, -77.06]				
	08/18/11 17:15 EST		0	Hail (1.00 in)
	08/18/11 17:15 EST		0	Source: Trained Spotter
Quarter sized hail was reported at Wheaton.				
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MONTGOMERY COUNTY --- 0.9 SE KEN GAR [39.04, -77.06]				
	08/18/11 17:15 EST		0	Hail (1.25 in)
	08/18/11 17:15 EST		0	Source: Broadcast Media
Half dollar sized hail was reported in Wheaton.				
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MONTGOMERY COUNTY --- 0.3 WNW KEN GAR [39.05, -77.07]				
	08/18/11 17:19 EST		0	Hail (1.00 in)
	08/18/11 17:19 EST		0	Source: Trained Spotter
Quarter sized hail was reported at the intersection of Connecticut Avenue and Viers Mill Road.				
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MONTGOMERY COUNTY --- 0.8 ENE HOMEWOOD [39.03, -77.04]				
	08/18/11 17:20 EST		0	Hail (1.50 in)
	08/18/11 17:20 EST		0	Source: Public
Hail up to the size of ping pong balls was reported near Wheaton.				
<hr/>				
MONTGOMERY COUNTY --- 0.5 ENE GLENMONT [39.07, -77.06]				
	08/18/11 17:24 EST		0	Hail (1.00 in)
	08/18/11 17:24 EST		0	Source: Public
Quarter sized hail was reported near Glenmont.				
<hr/>				
MONTGOMERY COUNTY --- 1.4 S FAIRLAND [39.06, -76.95]				
	08/18/11 17:33 EST		0	Hail (1.75 in)
	08/18/11 17:33 EST		0	Source: Trained Spotter
Golf ball sized hail was reported in Calverton.				
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MONTGOMERY COUNTY --- 0.6 S FAIRLAND [39.07, -76.95]				
	08/18/11 17:35 EST		0	Hail (1.75 in)
	08/18/11 17:35 EST		0	Source: Public
Golf ball sized hail was reported.				
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PRINCE GEORGE'S COUNTY --- 1.1 W AMMENDALE [39.05, -76.92]				
	08/18/11 17:36 EST		0	Hail (1.00 in)
	08/18/11 17:36 EST		0	Source: Public
Quarter sized hail was reported.				
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MONTGOMERY COUNTY --- 0.2 SW FAIRLAND [39.08, -76.95]				
	08/18/11 17:38 EST		0	Hail (1.00 in)
	08/18/11 17:38 EST		0	Source: Public
Quarter sized hail was reported.				
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PRINCE GEORGE'S COUNTY --- 0.5 WSW LAUREL [39.10, -76.86]				
	08/18/11 17:47 EST		0	Hail (1.50 in)
	08/18/11 17:47 EST		0	Source: Broadcast Media

Storm Data and Unusual Weather Phenomena - August 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Hail up to the size of ping pong balls was reported in Laurel.				
ANNE ARUNDEL COUNTY --- 0.6 E MARYLAND CITY [39.10, -76.81]				
	08/18/11 17:52 EST		0	Hail (1.00 in)
	08/18/11 17:52 EST		0	Source: Trained Spotter
Quarter sized hail was reported near Laurel.				
ANNE ARUNDEL COUNTY --- 1.4 NNW GREEN HAVEN [39.15, -76.56]				
	08/18/11 17:56 EST		0	Hail (1.00 in)
	08/18/11 17:56 EST		0	Source: Trained Spotter
Quarter sized hail was reported near Green Haven.				
ANNE ARUNDEL COUNTY --- 0.5 W PIONEER CITY [39.13, -76.73]				
	08/18/11 18:07 EST		0	Hail (1.00 in)
	08/18/11 18:07 EST		0	Source: Broadcast Media
Quarter sized hail was reported at Fort Meade.				
ANNE ARUNDEL COUNTY --- 0.7 N PIONEER CITY [39.14, -76.72]				
	08/18/11 18:09 EST		0	Hail (1.00 in)
	08/18/11 18:09 EST		0	Source: Broadcast Media
Quarter sized hail was reported near Severn.				
ANNE ARUNDEL COUNTY --- 1.1 N MARLEY [39.17, -76.60]				
	08/18/11 18:20 EST		0	Hail (1.00 in)
	08/18/11 18:20 EST		0	Source: Public
Quarter sized hail was reported at Glen Burnie.				
WASHINGTON COUNTY --- 0.6 NNW CLEAR SPG [39.66, -77.94]				
	08/18/11 20:40 EST		0	Hail (1.00 in)
	08/18/11 20:40 EST		0	Source: Public
Quarter sized hail was reported.				
WASHINGTON COUNTY --- 0.6 NNW CLEAR SPG [39.66, -77.94]				
	08/18/11 20:44 EST		0	Thunderstorm Wind (EG 52 kt)
	08/18/11 20:44 EST		0	Source: Public
Trees and large limbs were down in Clear Spring.				
WASHINGTON COUNTY --- 1.0 SE FUNKSTOWN [39.61, -77.71]				
	08/18/11 21:15 EST		5K	Thunderstorm Wind (EG 56 kt)
	08/18/11 21:15 EST		0	Source: State Official
Multiple reports of trees were down across the eastern parts of Washington County.				
WASHINGTON COUNTY --- 1.4 E ROXBURY [39.57, -77.69]				
	08/18/11 21:15 EST		0	Hail (1.00 in)
	08/18/11 21:15 EST		0	Source: Public
Quarter sized hail was reported near Funkstown.				
WASHINGTON COUNTY --- 1.5 N KEEDYSVILLE [39.50, -77.71]				
	08/18/11 21:44 EST		2K	Thunderstorm Wind (EG 56 kt)
	08/18/11 21:44 EST		0	Source: Public
Several Sycamore trees were snapped off due to thunderstorm winds.				

Storm Data and Unusual Weather Phenomena - August 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
WASHINGTON COUNTY --- 1.6 NNW KEEDYSVILLE [39.50, -77.71]				
	08/18/11 21:45 EST		0	Hail (1.00 in)
	08/18/11 21:45 EST		0	Source: Public
Quarter sized hail was reported near Keedysville.				
BALTIMORE COUNTY --- 1.6 ENE BENTLEY SPGS [39.68, -76.65]				
	08/18/11 23:04 EST		2K	Thunderstorm Wind (EG 56 kt)
	08/18/11 23:04 EST		0	Source: Public
Large limbs were down due to thunderstorm winds.				
A southerly flow around high pressure off the east coast produced hot and humid conditions. The hot and humid conditions combined with colder air aloft associated with an upper-level trough to produce moderate amounts of instability. Some thunderstorms that developed produced damaging wind gusts and large hail.				
ANNE ARUNDEL COUNTY --- 0.2 ESE DELMONT [39.13, -76.67], 0.5 ESE DELMONT [39.13, -76.66], 0.7 E DELMONT [39.13, -76.66], 0.7 ENE DELMONT [39.13, -76.66]				
	08/18/11 16:10 EST		0	Flash Flood (due to Heavy Rain)
	08/18/11 18:00 EST		0	Source: Fire Department/Rescue
Intersection of Steven Road and Quarterfield Road was flooded.				
Isolated thunderstorms developed across Maryland when an upper level disturbance tracked across a moist and unstable atmosphere. High rainfall rates over Anne Arundel County cased an isolated flash flood.				
WASHINGTON COUNTY --- 1.2 N MOFFET [39.70, -78.08]				
	08/19/11 15:03 EST		0	Hail (1.00 in)
	08/19/11 15:03 EST		0	Source: Public
Quarter sized hail was reported near Pecktonville.				
WASHINGTON COUNTY --- 1.7 NNE INDIAN SPGS [39.67, -77.99]				
	08/19/11 15:03 EST		2K	Thunderstorm Wind (EG 50 kt)
	08/19/11 15:03 EST		0	Source: Public
Multiple small trees and branches were down.				
BALTIMORE COUNTY --- 1.2 S MIDDLE RIVER [39.31, -76.45]				
	08/19/11 16:50 EST		0	Hail (1.00 in)
	08/19/11 16:50 EST		0	Source: Public
Quarter sized hail was reported in Essex.				
BALTIMORE COUNTY --- 0.4 SE MIDDLE RIVER [39.33, -76.45]				
	08/19/11 16:51 EST		0	Hail (1.00 in)
	08/19/11 16:51 EST		0	Source: Trained Spotter
Quarter sized hail was reported near the intersection of eastern Avenue and Old Eastern Avenue.				
BALTIMORE COUNTY --- 0.4 NNE CARNEY [39.41, -76.52]				
	08/19/11 16:57 EST		0	Hail (1.00 in)
	08/19/11 16:57 EST		0	Source: Public
Quarter sized hail was reported on Placid Avenue.				
BALTIMORE COUNTY --- 1.9 N LYNCH PT [39.26, -76.43]				
	08/19/11 16:57 EST		1K	Thunderstorm Wind (EG 52 kt)
	08/19/11 16:57 EST		0	Source: Public
A tree was down near the intersection of Wildwood Beach Road and Riverview Road.				

Storm Data and Unusual Weather Phenomena - August 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
BALTIMORE COUNTY --- 1.0 ENE CARNEY [39.41, -76.50]				
	08/19/11 17:10 EST		0	Thunderstorm Wind (EG 52 kt)
	08/19/11 17:10 EST		0	Source: Public
Wind gusts were estimated to be around 60 mph.				
ANNE ARUNDEL COUNTY --- 1.4 SSW VENICE ON THE BAY [39.13, -76.49]				
	08/19/11 17:45 EST		0	Hail (1.00 in)
	08/19/11 17:45 EST		0	Source: Public
Quarter sized hail was reported.				
ANNE ARUNDEL COUNTY --- 1.5 N LAKE SHR [39.12, -76.48]				
	08/19/11 17:45 EST		0	Hail (1.00 in)
	08/19/11 17:45 EST		0	Source: Public
Quarter sized hail was reported near Lake Shore.				
ANNE ARUNDEL COUNTY --- 1.5 N LAKE SHR [39.12, -76.48]				
	08/19/11 17:45 EST		0	Hail (1.00 in)
	08/19/11 17:45 EST		0	Source: Public
Quarter sized hail was reported near the Fort Smallwood State Park.				
PRINCE GEORGE'S COUNTY --- 1.3 SSE LARGO [38.88, -76.82]				
	08/19/11 17:45 EST		0	Hail (1.00 in)
	08/19/11 17:45 EST		0	Source: Public
Quarter sized hail was reported near Largo.				
ANNE ARUNDEL COUNTY --- 0.6 SE EARLEIGH HGTS [39.09, -76.54]				
	08/19/11 17:50 EST		5K	Thunderstorm Wind (EG 52 kt)
	08/19/11 17:50 EST		0	Source: Trained Spotter
Siding was being removed from homes due to thunderstorm winds.				
ANNE ARUNDEL COUNTY --- 0.7 SSW JACOBSTOWN [39.11, -76.53]				
	08/19/11 17:50 EST		1K	Thunderstorm Wind (EG 61 kt)
	08/19/11 17:50 EST		0	Source: Broadcast Media
A large tree was uprooted by a thunderstorm wind gust.				
ANNE ARUNDEL COUNTY --- 0.9 S JACOBSTOWN [39.11, -76.52]				
	08/19/11 17:50 EST		10K	Thunderstorm Wind (EG 61 kt)
	08/19/11 17:50 EST		0	Source: Public
Multiple power poles were torn down and a tree that was six inches in diameter was uprooted.				
An upper-level trough provided cold air aloft while warm and moist air remained at the surface. Moderate amounts of instability developed during the afternoon and evening hours. Some thunderstorms that developed along and ahead of a pressure trough were able to produce damaging wind gusts and large hail.				
BALTIMORE COUNTY --- 1.3 ESE CUB HILL [39.41, -76.50], 1.1 ESE CUB HILL [39.41, -76.50], 0.9 ESE CUB HILL [39.41, -76.50], 1.0 ENE CARNEY [39.41, -76.50]				
	08/19/11 17:10 EST		0	Flash Flood (due to Heavy Rain)
	08/19/11 18:45 EST		0	Source: Public
A creek filled and overflowed into a field.				
BALTIMORE COUNTY --- 0.7 S LYNCH PT [39.22, -76.43], 0.5 NNE FT HOWARD [39.21, -76.43], 1.0 SSE LYNCH PT [39.22, -76.42], 1.2 E LYNCH PT [39.23, -76.41], 0.6 E LYNCH PT [39.23, -76.42], 0.3 WSW LYNCH PT [39.23, -76.43]				

Storm Data and Unusual Weather Phenomena - August 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	08/19/11 17:40 EST		0	Flash Flood (due to Heavy Rain)
	08/19/11 18:30 EST		0	Source: Trained Spotter

North Point Road in North Point State Park was inundated by over 6 inches of water flowing over the roadway.

PRINCE GEORGE'S COUNTY --- 1.3 ESE LARGO [38.89, -76.81], 1.2 SE LARGO [38.89, -76.82], 1.4 SE LARGO [38.88, -76.81], 1.4 ESE LARGO [38.89, -76.81]

	08/19/11 18:00 EST		0	Flash Flood (due to Heavy Rain)
	08/19/11 19:30 EST		0	Source: Public

Backyards flooded up to one foot deep. Knee deep water encroaching upon MD-202 in the Kettering area. A nearby rain gage measured 3.23 inches of rain in less than 2 hours.

An upper-level disturbance combined with a moist, unstable airmass to induce scattered thunderstorms during the afternoon and evening hours. Several reports of flash flooding were received as this activity moved across the saturated ground along the Interstate 95 corridor. A rain gage in Prince Georges County measured 3.90 inches in under 2 hours and 3.04 inches in one hour.

BALTIMORE COUNTY --- 0.5 SSW DUNDALK [39.26, -76.52]

	08/21/11 12:14 EST		0	Hail (1.00 in)
	08/21/11 12:14 EST		0	Source: Emergency Manager

Quarter sized hail was reported on Admiral Boulevard.

BALTIMORE COUNTY --- 0.2 WNW DUNDALK [39.27, -76.52]

	08/21/11 12:26 EST		0	Hail (1.00 in)
	08/21/11 12:26 EST		0	Source: Trained Spotter

Quarter sized hail was reported.

BALTIMORE COUNTY --- 1.2 SSE DUNDALK [39.25, -76.51]

	08/21/11 12:30 EST		0	Hail (1.25 in)
	08/21/11 12:30 EST		0	Source: Trained Spotter

Half dollar sized hail was reported near Dundalk.

BALTIMORE COUNTY --- 1.2 SSE DUNDALK [39.25, -76.51]

	08/21/11 12:30 EST		0	Thunderstorm Wind (EG 52 kt)
	08/21/11 12:30 EST		0	Source: Trained Spotter

Wind gusts were estimated to be around 60 mph.

BALTIMORE COUNTY --- 1.2 E DUNDALK [39.27, -76.50]

	08/21/11 12:32 EST		1K	Thunderstorm Wind (EG 52 kt)
	08/21/11 12:32 EST		0	Source: Fire Department/Rescue

Large tree branches were blocking Ranch Lane near Trappe Road.

BALTIMORE COUNTY --- 1.3 SSE DUNDALK [39.25, -76.51]

	08/21/11 12:40 EST		0	Hail (1.00 in)
	08/21/11 12:40 EST		0	Source: Trained Spotter

Quarter sized hail was reported near Dundalk.

BALTIMORE COUNTY --- 1.9 NNW EDGEMERE [39.26, -76.46]

	08/21/11 13:00 EST		0	Hail (1.00 in)
	08/21/11 13:00 EST		0	Source: Trained Spotter

Quarter sized hail was reported near Back River.

BALTIMORE COUNTY --- 0.9 NW FT HOWARD [39.21, -76.44]

	08/21/11 13:20 EST		1K	Thunderstorm Wind (EG 52 kt)
	08/21/11 13:20 EST		0	Source: Trained Spotter

Storm Data and Unusual Weather Phenomena - August 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A tree was uprooted in Fort Howard.				
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ANNE ARUNDEL COUNTY --- 1.1 NW BAYSIDE BEACH [39.14, -76.47]	08/21/11 13:41 EST		0	Hail (1.00 in)
	08/21/11 13:41 EST		0	Source: Public
Quarter sized hail was reported near Bodkin Point.				
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PRINCE GEORGE'S COUNTY --- 0.7 NNW BELLEMEAD [38.96, -76.88]	08/21/11 14:32 EST		1K	Thunderstorm Wind (EG 50 kt)
	08/21/11 14:32 EST		0	Source: Fire Department/Rescue
Tree branches fell onto a house along Kidmore Lane.				
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CALVERT COUNTY --- 1.0 SE HUNTINGTOWN [38.61, -76.61]	08/21/11 15:55 EST		0	Thunderstorm Wind (EG 52 kt)
	08/21/11 15:55 EST		0	Source: Public
Wind gusts were estimated to be around 60 mph.				
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CALVERT COUNTY --- 0.6 SE BREEZY PT [38.61, -76.51]	08/21/11 16:07 EST		0	Thunderstorm Wind (EG 50 kt)
	08/21/11 16:07 EST		0	Source: Public
Small limbs were blown down in thunderstorm winds.				
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CALVERT COUNTY --- 0.6 SSE BREEZY PT [38.61, -76.52]	08/21/11 16:07 EST		0	Hail (1.00 in)
	08/21/11 16:07 EST		0	Source: Public
Hail up to quarters in size was reported along Ridge Road.				
<hr/>				
CALVERT COUNTY --- 0.6 SSE BREEZY PT [38.61, -76.52]	08/21/11 16:07 EST		0	Thunderstorm Wind (EG 52 kt)
	08/21/11 16:07 EST		0	Source: Public
Wind gusts were estimated to be around 60 mph.				
A cold front approached the area from the Ohio Valley on the 21st. Warm and moist air ahead of the boundary caused an unstable atmosphere. Some thunderstorms ahead of the cold front produced damaging winds and large hail.				
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BALTIMORE COUNTY --- 1.8 ENE DUNDALK [39.28, -76.49], 1.7 ENE DUNDALK [39.28, -76.49], 1.6 ENE DUNDALK [39.28, -76.49], 1.6 ENE DUNDALK [39.28, -76.49]	08/21/11 12:45 EST		0	Flash Flood (due to Heavy Rain)
	08/21/11 14:00 EST		0	Source: Trained Spotter
Two feet of water was flowing over the intersection of Old North Point and German Hill roads from Bread and Cheese Creek.				
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BALTIMORE COUNTY --- 2.1 NNW EDGEMERE [39.26, -76.46], 2.2 NNW EDGEMERE [39.26, -76.46], 2.6 E DUNDALK [39.28, -76.47], 2.4 E DUNDALK [39.27, -76.47]	08/21/11 12:45 EST		0	Flash Flood (due to Heavy Rain)
	08/21/11 14:00 EST		0	Source: Trained Spotter
Six feet of water was blocking North Point Boulevard.				
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BALTIMORE COUNTY --- 1.2 S ESSEX [39.30, -76.48], 1.1 S ESSEX [39.30, -76.48], 1.2 SSW ESSEX [39.30, -76.48], 1.2 S ESSEX [39.30, -76.48]	08/21/11 13:08 EST		0	Flash Flood (due to Heavy Rain)
	08/21/11 15:00 EST		0	Source: State Official
A swift water rescue was performed near the intersection of Virginia and Marie Avenues.				

Storm Data and Unusual Weather Phenomena - August 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
BALTIMORE COUNTY --- 1.1 E DUNDALK [39.27, -76.50], 1.2 E DUNDALK [39.27, -76.50], 1.2 E DUNDALK [39.27, -76.50], 1.0 E DUNDALK [39.27, -76.50]				
	08/21/11 13:23 EST		0	Flash Flood (due to Heavy Rain)
	08/21/11 15:00 EST		0	Source: State Official
Three swift water rescues were conducted near the intersection of Church and Trappe Roads.				
BALTIMORE COUNTY --- 0.5 W LYNCH PT [39.23, -76.44], 0.4 WNW LYNCH PT [39.23, -76.44], 0.6 WNW LYNCH PT [39.23, -76.44], 0.5 ENE EDGEMERE [39.23, -76.44]				
	08/21/11 14:00 EST		0	Flash Flood (due to Heavy Rain)
	08/21/11 15:00 EST		0	Source: Trained Spotter
The intersection of Willow Avenue and North Point Road was flooded with 18 inches of flowing water.				
Thunderstorms developed in association with a trof moving through the Mid-Atlantic. As they moved over the saturated ground of Baltimore County, their rain led to flash flooding.				
CHARLES COUNTY --- 1.2 E GRAYTON [38.42, -77.18]				
	08/25/11 16:07 EST		2K	Thunderstorm Wind (EG 52 kt)
	08/25/11 16:07 EST		0	Source: State Official
A few trees were down along the intersection of Holly Springs Road and Port Tobacco Road.				
CHARLES COUNTY --- 1.5 NE MARYLAND PT [38.39, -77.18]				
	08/25/11 16:09 EST		1K	Thunderstorm Wind (EG 56 kt)
	08/25/11 16:09 EST		0	Source: State Official
A tree was down along Holly Springs Road.				
ST. MARY'S COUNTY --- 1.7 SW FOREST HALL [38.40, -76.74]				
	08/25/11 16:20 EST		0.50K	Thunderstorm Wind (EG 50 kt)
	08/25/11 16:20 EST		0	Source: Trained Spotter
A couple tree branches were down across Baptist Church Road between Chaptico Road and Route 5.				
ST. MARY'S COUNTY --- 0.6 SSE CHARLOTTE HALL [38.47, -76.78]				
	08/25/11 16:45 EST		1K	Thunderstorm Wind (EG 50 kt)
	08/25/11 16:45 EST		0	Source: State Official
A tree fell onto power lines near the 37600 Block of New Market Road.				
ST. MARY'S COUNTY --- 1.6 NW MECHANICSVILLE [38.45, -76.75]				
	08/25/11 16:48 EST		1K	Thunderstorm Wind (EG 52 kt)
	08/25/11 16:48 EST		0	Source: State Official
A tree was down along Three Notch Road.				
ST. MARY'S COUNTY --- 1.5 SSW LNRDTWN ST MARYS ARP [38.30, -76.56], 2.2 NNW CALIFORNIA [38.33, -76.51]				
	08/25/11 16:58 EST		5K	Tornado (EF0, L: 3.41 mi , W: 50 yd)
	08/25/11 17:02 EST		0	Source: Public
There was video evidence of a tornado along with damage to trees and flag poles.				
ST. MARY'S COUNTY --- 0.7 WNW PATUXENT RIVER [38.28, -76.41], 0.6 WNW PATUXENT RIVER [38.28, -76.41]				
	08/25/11 17:11 EST		0	Tornado (EF0, L: 0.05 mi , W: 25 yd)
	08/25/11 17:12 EST		0	Source: Public
There was video evidence of a brief tornado on the Patuxent River Airfield.				
A cold front passed moved into the region on the 25th. Tropical moisture ahead of the front caused moderate amounts of instability to develop. Thunderstorms that developed ahead of the cold front were able to produce damaging winds and large hail.				

Storm Data and Unusual Weather Phenomena - August 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ST. MARY'S COUNTY --- 0.9 SW ST JAMES [38.19, -76.41], 0.5 ENE ST MARYS CITY [38.18, -76.42], 0.4 N ST MARYS CITY [38.19, -76.43], 0.2 SW ST JAMES [38.20, -76.40], 0.4 SE ST JAMES [38.20, -76.40]				
	08/27/11 11:00 EST		0	Flood (due to Heavy Rain)
	08/27/11 17:00 EST		0	Source: Trained Spotter
Six to 8 inches of standing water was observed over multiple sections of Matthapany Road near St. Marys College. A storm total measurement of 11.52 inches of rain occurred nearby.				
ST. MARY'S COUNTY --- 1.3 ENE CHAPTICO [38.38, -76.76], 1.7 WNW HELEN [38.39, -76.75], 1.9 WNW HELEN [38.39, -76.75], 1.2 NE CHAPTICO [38.38, -76.77]				
	08/27/11 12:45 EST		0	Flash Flood (due to Heavy Rain)
	08/27/11 15:00 EST		0	Source: State Official
Baptist Church Road was closed at Hayden Road due to 1 foot of flowing water. A nearby rain gage measured 10.46 inches during the event.				
ST. MARY'S COUNTY --- 0.7 NNW PINEY PT [38.16, -76.52], 0.7 NNW PINEY PT [38.16, -76.53], 0.8 SE PINEY PT [38.14, -76.51], 0.9 ESE PINEY PT [38.14, -76.51], 0.5 NE PINEY PT [38.15, -76.51]				
	08/27/11 17:00 EST		0	Flash Flood (due to Heavy Rain)
	08/27/11 18:00 EST		0	Source: Department of Highways
State Route 249 was closed due to flooding. A nearby rain gage observed 10.57 inches.				
ANNE ARUNDEL COUNTY --- 1.3 WNW LUSBY XRDS [38.99, -76.62], 0.9 WNW LUSBY XRDS [38.99, -76.61], 0.9 WNW LUSBY XRDS [38.98, -76.62], 1.1 NNE RUTLAND [38.99, -76.62], 1.3 ESE CROFTON [38.99, -76.63]				
	08/27/11 17:24 EST		0	Flash Flood (due to Heavy Rain)
	08/27/11 23:00 EST		0	Source: Department of Highways
State route 450 was flooded and closed near Rutland Road. A nearby rain gage had a storm total of 6.20 inches.				
ST. MARY'S COUNTY --- 1.0 SE PINEY PT [38.14, -76.51], 1.0 SE PINEY PT [38.14, -76.51], 1.1 SE PINEY PT [38.14, -76.50], 1.2 SE PINEY PT [38.14, -76.50]				
	08/27/11 18:00 EST		0	Flood (due to Heavy Rain)
	08/27/11 23:00 EST		0	Source: Department of Highways
State Route 249 was closed south of Stark Drive due to flooding. A nearby spotter observed a storm total of 10.40 inches.				
PRINCE GEORGE'S COUNTY --- 2.1 SSE MEADOWS [38.79, -76.84], 2.3 SSE MEADOWS [38.79, -76.84], 2.3 ESE (ADW)ANDREWS AFB CAM [38.78, -76.84], 2.0 ESE (ADW)ANDREWS AFB CAM [38.78, -76.85]				
	08/27/11 18:43 EST		0	Flash Flood (due to Heavy Rain)
	08/27/11 23:00 EST		0	Source: Department of Highways
State Route 223 was flooded and closed at Rosaryville Road. A trained spotter measured 7.00 of rain from this storm.				
ANNE ARUNDEL COUNTY --- GLEN BURNIE [39.17, -76.63], 0.2 SW GLEN BURNIE [39.17, -76.63], 0.2 W GLEN BURNIE [39.17, -76.63], 0.1 NNW GLEN BURNIE [39.17, -76.63]				
	08/27/11 19:33 EST		0	Flash Flood (due to Heavy Rain)
	08/27/11 23:00 EST		0	Source: Department of Highways
Maryland State Route 176 was flooded and closed between Central Avenue and Baltimore-Annapolis Boulevard. A nearby rain gage measured 5.92 inches during the event.				
BALTIMORE CITY (C) COUNTY --- 0.6 SSE CLIFFORD [39.24, -76.63], 0.4 S CLIFFORD [39.24, -76.63], 0.5 S CLIFFORD [39.24, -76.63], 0.6 SSE CLIFFORD [39.24, -76.63]				
	08/27/11 19:43 EST		0	Flash Flood (due to Heavy Rain)
	08/27/11 23:00 EST		0	Source: Department of Highways
The 600 Block of West Patapsco Avenue was closed due to flooding. A nearby rain gage tallied 3.34 inches.				
BALTIMORE CITY (C) COUNTY --- 0.7 S GARDENVILLE [39.34, -76.57], 0.7 S GARDENVILLE [39.34, -76.57], 0.7 S GARDENVILLE [39.34, -76.57], 0.7 SSW GARDENVILLE [39.34, -76.57]				
	08/27/11 19:43 EST		0	Flash Flood (due to Heavy Rain)
	08/27/11 23:00 EST		0	Source: Fire Department/Rescue

Storm Data and Unusual Weather Phenomena - August 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Harford Road near Montibello Terrace was closed due to flash flooding. A nearby rain gage tallied 4.59 inches.

BALTIMORE CITY (C) COUNTY --- 0.8 E HILLEN [39.30, -76.58], 0.9 E HILLEN [39.30, -76.58], 0.9 E HILLEN [39.30, -76.58], 0.8 ESE HILLEN [39.30, -76.58]

08/27/11 19:43 EST	0	Flash Flood (due to Heavy Rain)
08/27/11 23:00 EST	0	Source: Trained Spotter

McElderry Street near North Patterson Park Avenue was closed due to flooding. A rain gage in downtown Baltimore measured 3.63 inches during the event.

ANNE ARUNDEL COUNTY --- 1.1 W LONDONTOWNE [38.93, -76.57], 0.9 WSW LONDONTOWNE [38.93, -76.57], 0.9 WSW LONDONTOWNE [38.93, -76.57], 1.1 WSW LONDONTOWNE [38.93, -76.57]

08/27/11 21:27 EST	0	Flash Flood (due to Heavy Rain)
08/27/11 23:00 EST	0	Source: Department of Highways

State Route 214 closed at State Route 2 due to flash flooding. A rain gage near the event recorded 5.77 inches.

BALTIMORE COUNTY --- 0.7 N POPLAR [39.36, -76.45], 1.1 N POPLAR [39.37, -76.45], 1.1 N POPLAR [39.37, -76.45], 0.9 N POPLAR [39.36, -76.45]

08/27/11 23:48 EST	0	Flash Flood (due to Heavy Rain)
08/28/11 02:00 EST	0	Source: Department of Highways

State Route 7 was flooded and closed at Mohrs Lane. A nearby rain gage recorded 4.45 inches.

BALTIMORE COUNTY --- 0.9 SW CHASE [39.34, -76.39], 1.1 WSW CHASE [39.34, -76.40], 0.8 WSW CHASE [39.35, -76.39], 0.7 WSW CHASE [39.34, -76.39]

08/28/11 00:57 EST	0	Flash Flood (due to Heavy Rain)
08/28/11 02:00 EST	0	Source: Department of Highways

State Route 150 was flooded and closed at Earls Road. A nearby rain gage totaled 4.90 inches.

ST. MARY'S COUNTY --- 0.5 W CLEMENTS [38.33, -76.73], 0.3 NW CLEMENTS [38.33, -76.72], 0.1 SE CLEMENTS [38.33, -76.72], 0.4 SSW CLEMENTS [38.33, -76.72]

08/28/11 01:15 EST	0	Flood (due to Heavy Rain)
08/28/11 07:00 EST	0	Source: Other Federal Agency

The river gauge on Saint Clement Creek near Clements set a new record stage of 6.98 feet. Records date back to 1968. At a rain gauge closest to the creek a total of 10.40 inches was reported.

HARFORD COUNTY --- 0.9 NNW EDGEWOOD [39.43, -76.30], 0.7 WSW VAN BIBBER [39.45, -76.31], 0.1 ESE VAN BIBBER [39.45, -76.30], 0.9 S VAN BIBBER [39.44, -76.30]

08/28/11 02:08 EST	0	Flood (due to Heavy Rain)
08/28/11 08:00 EST	0	Source: Department of Highways

State Route 7 was flooded and closed between Edgewood Road and Maryland Route 24. The highest total from a rain gauge nearby was 5.26 inches.

BALTIMORE COUNTY --- 0.9 SW CHASE [39.34, -76.39], 1.1 WSW CHASE [39.34, -76.40], 0.9 WSW CHASE [39.34, -76.40], 0.8 SW CHASE [39.34, -76.39]

08/28/11 02:20 EST	0	Flood (due to Heavy Rain)
08/28/11 08:00 EST	0	Source: Department of Highways

State Route 150 was closed due to flooding from earlier rainfall. A nearby rain gauge recorded 4.44 inches during the storm.

ANNE ARUNDEL COUNTY --- 0.9 SE LYONS CREEK [38.76, -76.66], 0.6 ESE LYONS CREEK [38.77, -76.66], 0.8 E LYONS CREEK [38.77, -76.66], 1.1 SE LYONS CREEK [38.76, -76.65]

08/28/11 06:00 EST	0	Flood (due to Heavy Rain)
08/28/11 11:00 EST	0	Source: Trained Spotter

Flooding was reported along Lyons Creek near Maryland Routes 4 and 260. A nearby rain gauge observed 5.71 inches.

Hurricane Irene tracked up the Mid-Atlantic Coast during the afternoon and evening hours of the 27th. Heavy rains associated with Irene and her rainbands fell over saturated soils of Maryland. Flash flooding resulted in some areas and flooding continued into the 28th as waters rose. Storm total rainfall from Irene reached 12.00 in spots.

Storm Data and Unusual Weather Phenomena - August 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
(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				
	08/27/11 12:00 EST		12.15M	Tropical Storm
	08/28/11 09:00 EST		0	

Hurricane Irene tracked up the Mid-Atlantic Coast during the evening hours of the 27th through the early morning hours of the 28th. Irene passed by just to the east of Ocean City, Maryland during the early morning hours of the 28th. The minimum central pressure was 958 millibars and maximum sustained winds were 80 mph, making Irene a category one hurricane. Irene produced tropical storm conditions across portions Maryland near and east of the Interstate 95 Corridor. The worst conditions were near the Chesapeake Bay.

The highest rainfall totals were around twelve inches across St Marys County. Widespread power outages were reported across eastern Maryland along with numerous trees down. Total damage from Irene was over 10 million dollars.

VIRGINIA, North

LOUDOUN COUNTY --- 1.1 ENE LEESBURG MUNI [39.08, -77.53]				
	08/01/11 15:00 EST		5K	Thunderstorm Wind (EG 50 kt)
	08/01/11 15:00 EST		0	Source: Emergency Manager

Trees were down across southeastern Leesburg.

LOUDOUN COUNTY --- 1.6 SE LINCOLN [39.10, -77.66]				
	08/01/11 16:03 EST		2K	Thunderstorm Wind (EG 52 kt)
	08/01/11 16:03 EST		0	Source: Public

Trees were down along Hughesville Road and adjacent properties.

LOUDOUN COUNTY --- 1.6 SE LINCOLN [39.10, -77.66]				
	08/01/11 16:03 EST		2K	Thunderstorm Wind (EG 52 kt)
	08/01/11 16:03 EST		0	Source: Emergency Manager

Trees were down along Hughesville Road.

LOUDOUN COUNTY --- 1.4 SSE LINCOLN [39.10, -77.67]				
	08/01/11 16:05 EST		0	Hail (1.00 in)
	08/01/11 16:05 EST		0	Source: Public

Quarter sized hail was measured in Hughesville.

FAIRFAX COUNTY --- 0.8 NE ILDA [38.84, -77.24]				
	08/01/11 16:07 EST		2K	Thunderstorm Wind (EG 50 kt)
	08/01/11 16:07 EST		0	Source: Emergency Manager

Trees were down at Wakefield Chapel Road and Little River Turnpike.

FAIRFAX COUNTY --- 1.0 NNE RAVENSWORTH [38.81, -77.21]				
	08/01/11 16:12 EST		5K	Thunderstorm Wind (EG 52 kt)
	08/01/11 16:12 EST		0	Source: Emergency Manager

Trees that were fourteen inches in diameter were down at Braddock Road and Ravensworth Road.

FAIRFAX COUNTY --- 1.3 WNW FAIRFAX PARK [38.78, -77.27]				
	08/01/11 16:15 EST		0	Thunderstorm Wind (EG 50 kt)
	08/01/11 16:15 EST		0	Source: Trained Spotter

Limbs that were five inches in diameter were down.

LOUDOUN COUNTY --- 0.3 WNW LENA [38.95, -77.58]				
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Storm Data and Unusual Weather Phenomena - August 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	08/01/11 16:30 EST		5K	Thunderstorm Wind (EG 50 kt)
	08/01/11 16:30 EST		0	Source: State Official
Trees were down along Route 50 between Aldie and Arcola.				
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LOUDOUN COUNTY --- 0.3 SW LEESBURG MUNI [39.08, -77.55]	08/01/11 17:05 EST		0	Thunderstorm Wind (EG 52 kt)
	08/01/11 17:05 EST		0	Source: State Official
A small plane was toppled at the Leesburg Executive Airport.				
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LOUDOUN COUNTY --- 1.4 NNE WATSON [39.02, -77.57]	08/01/11 17:25 EST		0	Thunderstorm Wind (EG 56 kt)
	08/01/11 17:25 EST		5K	Source: Public
Widespread wind damage to corn crop was reported.				
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LOUDOUN COUNTY --- 1.2 ESE ALDIE [38.96, -77.61]	08/01/11 17:27 EST		1K	Thunderstorm Wind (EG 52 kt)
	08/01/11 17:27 EST		0	Source: NWS Employee
A large tree was snapped near the Mt. Zion Cemetery.				
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LOUDOUN COUNTY --- 1.4 NNW PURCELLVILLE [39.17, -77.73]	08/01/11 17:31 EST		1K	Thunderstorm Wind (EG 56 kt)
	08/01/11 17:31 EST		0	Source: State Official
A couple of trees were down along Hillsboro Road in Purcellville.				
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LOUDOUN COUNTY --- 0.6 NNE PURCELLVILLE [39.16, -77.71]	08/01/11 17:35 EST		3K	Thunderstorm Wind (EG 56 kt)
	08/01/11 17:35 EST		0	Source: State Official
Trees were down near the intersection of Purcellville Road and Alder School Road.				
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KING GEORGE COUNTY --- 0.5 E FAIRVIEW BEACH [38.33, -77.24]	08/01/11 17:45 EST		50K	Thunderstorm Wind (EG 56 kt)
	08/01/11 17:45 EST		0	Source: Trained Spotter
Trees were on homes and many power lines were down.				
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KING GEORGE COUNTY --- 1.9 ESE FAIRVIEW BEACH [38.32, -77.22]	08/01/11 17:45 EST		5K	Thunderstorm Wind (EG 61 kt)
	08/01/11 17:45 EST		0	Source: Trained Spotter
Trees up to ten inches in diameter were snapped thirty to forty feet up.				
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LOUDOUN COUNTY --- 1.2 NW RAEONIAN SPGS [39.16, -77.64]	08/01/11 17:45 EST		3K	Thunderstorm Wind (EG 56 kt)
	08/01/11 17:45 EST		0	Source: State Official
Trees were down near Hamilton Station Road and Route 9.				
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KING GEORGE COUNTY --- 1.5 NNE WEEDONVILLE [38.30, -77.16]	08/01/11 17:46 EST		1K	Thunderstorm Wind (EG 52 kt)
	08/01/11 17:46 EST		0	Source: Trained Spotter
Two trees were knocked down.				
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KING GEORGE COUNTY --- 0.7 N GERA [38.24, -77.17]	08/01/11 17:56 EST		0	Hail (1.00 in)
	08/01/11 17:56 EST		0	Source: Public

Storm Data and Unusual Weather Phenomena - August 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Quarter sized hail was estimated.				
KING GEORGE COUNTY --- 0.7 NNW GERA [38.24, -77.17]				
	08/01/11 17:56 EST		0	Thunderstorm Wind (EG 52 kt)
	08/01/11 17:56 EST		0	Source: Public
Multiple tree limbs that were four to five inches in diameter were down.				
KING GEORGE COUNTY --- 0.8 N GERA [38.24, -77.17]				
	08/01/11 17:56 EST		0	Hail (1.00 in)
	08/01/11 17:56 EST		0	Source: Public
Quarter sized hail was estimated.				
KING GEORGE COUNTY --- 0.8 N GERA [38.24, -77.17]				
	08/01/11 17:56 EST		1K	Thunderstorm Wind (EG 52 kt)
	08/01/11 17:56 EST		0	Source: Public
Several tree limbs that were a few inches in diameter were knocked down.				
KING GEORGE COUNTY --- 1.0 NNE GERA [38.24, -77.16]				
	08/01/11 17:56 EST		1K	Thunderstorm Wind (EG 52 kt)
	08/01/11 17:56 EST		0	Source: Public
Multiple tree limbs that were four to five inches in diameter were blown down.				
KING GEORGE COUNTY --- 1.3 SSE KING GEORGE [38.25, -77.16]				
	08/01/11 17:56 EST		0	Hail (1.00 in)
	08/01/11 17:56 EST		0	Source: Public
Quarter sized hail was reported near King George.				
KING GEORGE COUNTY --- 0.3 SSE JERSEY [38.20, -77.13]				
	08/01/11 18:03 EST		1K	Thunderstorm Wind (EG 56 kt)
	08/01/11 18:03 EST		0	Source: Trained Spotter
A tree was down on Route 625 east of Route 301.				
KING GEORGE COUNTY --- 0.7 NNW LAMBS CREEK [38.26, -77.27]				
	08/01/11 18:22 EST		5K	Thunderstorm Wind (EG 56 kt)
	08/01/11 18:22 EST		0	Source: Trained Spotter
Trees were snapped above the ground level near Birchwood Creek.				
<p>An upper-level ridge was centered over the southern Plains while an upper-level low was located over central Canada. A northwest flow between these two systems caused colder air aloft to move overhead. Warm and moist air at the surface combined with the colder air aloft to produce moderate amounts of instability. A pressure trough at the surface caused showers and thunderstorms to develop. Moderate instability caused some thunderstorms to produce damaging wind gusts and large hail.</p>				
CULPEPER COUNTY --- 0.4 WNW CULPEPER [38.48, -78.01], 1.4 ENE CULPEPER [38.49, -77.97], 2.3 WSW INLET [38.46, -77.96], 2.3 SW CULPEPER [38.45, -78.03]				
	08/06/11 20:50 EST		0	Flash Flood (due to Heavy Rain)
	08/06/11 23:00 EST		0	Source: State Official
Numerous road closures were reported in Culpeper County. A rain gage in Culpeper measured 4.58 inches.				
CULPEPER COUNTY --- 1.1 E WHITE SHOP [38.43, -78.05], 1.2 SE WHITE SHOP [38.42, -78.05], 1.3 SE WHITE SHOP [38.42, -78.05], 1.5 ESE WHITE SHOP [38.42, -78.04]				
	08/06/11 21:00 EST		0	Flash Flood (due to Heavy Rain)
	08/06/11 23:00 EST		0	Source: Public
The public reported a bridge was washed out on Spring Creek Drive. A nearby spotter observed 6.85 inches of rain.				

Storm Data and Unusual Weather Phenomena - August 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
CULPEPER COUNTY --- 0.7 S CULPEPER [38.47, -78.00], 0.8 SW CULPEPER [38.47, -78.01], 0.4 ENE CULPEPER [38.48, -77.99], 1.0 E CULPEPER [38.48, -77.98]				
	08/06/11 21:30 EST		0	Flash Flood (due to Heavy Rain)
	08/06/11 23:00 EST		0	Source: State Official
Two separate rescues were conducted from vehicles trapped in flood waters.				
CULPEPER COUNTY --- 2.3 SSE CULPEPER [38.45, -77.98], 2.1 SE CULPEPER [38.46, -77.97], 1.8 SW INLET [38.46, -77.95], 2.2 SW INLET [38.45, -77.95]				
	08/06/11 21:30 EST		0	Flash Flood (due to Heavy Rain)
	08/06/11 23:00 EST		0	Source: State Official
Water rescue was performed for vehicle caught in flood waters. A nearby rain gage recorded 4.37 inches.				
A slow eastward-moving surface boundary in association with a broad upper level trough over the Ohio Valley progressed across the Blue Ridge during the afternoon and evening. Thunderstorms trained northward along the boundary, repeatedly over the same area in Culpeper County. Torrential rains produced flash flooding in portions of the county. A maximum measured rainfall total of 7.9 inches was reported near Winston.				
GREENE COUNTY --- 0.4 SSW MARCH [38.26, -78.53]				
	08/07/11 15:08 EST		1K	Thunderstorm Wind (EG 50 kt)
	08/07/11 15:08 EST		0	Source: State Official
A large tree was down near the intersection of Dyke Road and Big Sky Lane.				
ALBEMARLE COUNTY --- 2.8 ESE NORTONSVILLE [38.21, -78.51]				
	08/07/11 15:19 EST		5K	Thunderstorm Wind (EG 52 kt)
	08/07/11 15:19 EST		0	Source: State Official
Trees were down near the intersection of Simmons Gap Road and Estes Ridge.				
ALBEMARLE COUNTY --- 2.3 WNW EARLYSVILLE [38.19, -78.52]				
	08/07/11 15:21 EST		2K	Thunderstorm Wind (EG 52 kt)
	08/07/11 15:21 EST		0	Source: State Official
Trees were down near the intersection of Markwood Road and Allen Road.				
ALBEMARLE COUNTY --- 1.6 NW GILBERT [38.15, -78.39]				
	08/07/11 15:41 EST		1K	Thunderstorm Wind (EG 52 kt)
	08/07/11 15:41 EST		0	Source: State Official
A tree was down along Watts Passage.				
ORANGE COUNTY --- 1.4 NNE BARBOURSVILLE [38.19, -78.27]				
	08/07/11 15:44 EST		3K	Thunderstorm Wind (EG 52 kt)
	08/07/11 15:44 EST		0	Source: State Official
Trees were down near the intersection of Hardwick Mountain Drive and Chestnut Lane.				
ALBEMARLE COUNTY --- 1.6 SE STONY PT [38.10, -78.36]				
	08/07/11 15:46 EST		2K	Thunderstorm Wind (EG 52 kt)
	08/07/11 15:46 EST		0	Source: State Official
Trees were down near the intersection of Stoney Point Pass and Beasley Lane.				
ORANGE COUNTY --- 1.4 SSW MONTPELIER [38.21, -78.19]				
	08/07/11 15:52 EST		1K	Thunderstorm Wind (EG 52 kt)
	08/07/11 15:52 EST		0	Source: State Official
Two large trees were down across Jacksontown Road near Anderson Drive.				

Storm Data and Unusual Weather Phenomena - August 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ORANGE COUNTY --- 1.0 SSW GORDONSVILLE [38.14, -78.18]				
	08/07/11 15:55 EST		1K	Thunderstorm Wind (EG 52 kt)
	08/07/11 15:55 EST		0	Source: State Official
A tree was down along Linney Street.				
A cold front passed through central Virginia on the 7th. Moderate instability ahead of the front caused some thunderstorms to produce damaging wind gusts.				
SHENANDOAH COUNTY --- 1.4 NE WOODSTOCK [38.89, -78.50]				
	08/13/11 12:58 EST		10K	Thunderstorm Wind (EG 66 kt)
	08/13/11 12:58 EST		0	Source: State Official
There was damage to a roof at the Shenandoah Valley Thrift Store.				
SHENANDOAH COUNTY --- 1.4 E QUICKSBURG [38.68, -78.65]				
	08/13/11 15:28 EST		2K	Thunderstorm Wind (EG 61 kt)
	08/13/11 15:28 EST		0	Source: Public
Numerous large limbs and a couple of trees were down near Quicksburg.				
AUGUSTA COUNTY --- 0.5 WSW DEERFIELD [38.20, -79.41]				
	08/13/11 17:08 EST		2K	Thunderstorm Wind (EG 52 kt)
	08/13/11 17:08 EST		0	Source: Fire Department/Rescue
Trees were down due to thunderstorm winds.				
A stationary boundary remained over the region during the 13th. Moderate instability ahead of the stationary boundary caused a few thunderstorms to produce damaging wind gusts across central Virginia.				
NELSON COUNTY --- 0.9 SE GREENFIELD [37.92, -78.84], 0.9 SE GREENFIELD [37.92, -78.84], 1.1 SE GREENFIELD [37.92, -78.84], 1.0 SSE GREENFIELD [37.92, -78.84]				
	08/13/11 23:00 EST		0	Flash Flood (due to Heavy Rain)
	08/14/11 02:00 EST		0	Source: Department of Highways
Rockfish Valley Highway was closed due to flash flooding.				
NELSON COUNTY --- 2.4 NW TYRO [37.85, -79.03], 2.4 NW TYRO [37.84, -79.03], 1.0 SSW TYRO [37.81, -79.01], 0.7 S TYRO [37.81, -79.00], 0.3 N TYRO [37.82, -79.00]				
	08/13/11 23:00 EST		0	Flash Flood (due to Heavy Rain)
	08/14/11 02:00 EST		0	Source: Department of Highways
Crabtree Falls Highway near Cub Creek Road was closed due to flash flooding.				
NELSON COUNTY --- 2.3 ENE GREENFIELD [37.94, -78.81], 1.7 ENE GREENFIELD [37.94, -78.82], 1.2 ENE GREENFIELD [37.93, -78.83], 1.3 E GREENFIELD [37.93, -78.83]				
	08/14/11 01:00 EST		0	Flash Flood (due to Heavy Rain)
	08/14/11 03:00 EST		0	Source: State Official
Greenfield Road was closed with flash flooding in several spots. At least one vehicle was stranded.				
NELSON COUNTY --- 2.8 N ADIAL [37.89, -78.82], 2.4 NNE ADIAL [37.88, -78.81], 1.8 N ADIAL [37.88, -78.82], 2.0 N ADIAL [37.88, -78.82]				
	08/14/11 01:00 EST		0	Flash Flood (due to Heavy Rain)
	08/14/11 03:00 EST		0	Source: State Official
Duncan Hollow Loop was closed due to flash flooding. A vehicle was swept off the road by high water.				
NELSON COUNTY --- 1.1 E ROCKFISH [37.80, -78.75], 1.1 NE ROCKFISH [37.81, -78.75], 1.0 NNE ROCKFISH [37.81, -78.76], 0.5 ESE ROCKFISH [37.80, -78.76]				
	08/14/11 02:00 EST		0	Flash Flood (due to Heavy Rain)
	08/14/11 05:00 EST		0	Source: Trained Spotter

Storm Data and Unusual Weather Phenomena - August 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Rockfish River was out of its banks and flooding yards.				
NELSON COUNTY --- 5.1 ESE GREENFIELD [37.91, -78.76], 5.4 E GREENFIELD [37.92, -78.75], 5.2 E GREENFIELD [37.92, -78.76], 4.6 ESE GREENFIELD [37.91, -78.77]				
	08/14/11 18:50 EST		0	Flash Flood (due to Heavy Rain)
	08/14/11 21:00 EST		0	Source: Department of Highways
Taylors Creek Road was closed due to flash flooding on Taylors Creek.				
NELSON COUNTY --- MASSIES MILL [37.78, -79.00], 0.2 NE MASSIES MILL [37.78, -79.00], 0.2 ENE MASSIES MILL [37.78, -79.00], 0.3 S MASSIES MILL [37.78, -79.00]				
	08/14/11 18:50 EST		0	Flash Flood (due to Heavy Rain)
	08/14/11 21:00 EST		0	Source: Department of Highways
Riverside Loop was closed due to flash flooding.				
ALBEMARLE COUNTY --- 1.1 E FARMINGTON [38.05, -78.53], 1.3 E FARMINGTON [38.05, -78.53], 1.4 E FARMINGTON [38.05, -78.52], 1.3 E FARMINGTON [38.05, -78.53]				
	08/14/11 23:00 EST		0	Flood (due to Heavy Rain)
	08/15/11 05:00 EST		0	Source: Department of Highways
The ramp from Route 601 onto Highway 250 closed due to standing water.				
Deep layer southerly flow advected a moist, tropical airmass into the Mid-Atlantic. As low pressure approached from the west, periods of heavy rain and thunderstorms moved across the central Virginia Foothills. As grounds became saturated, flood and flash flooding resulted in some areas. A spotter in Albemarle County measured 3.15 inches of rain during this period.				
CHARLOTTESVILLE (C) COUNTY --- 0.9 ENE CHARLOTTESVILLE [38.04, -78.49]				
	08/14/11 17:48 EST		5K	Thunderstorm Wind (EG 52 kt)
	08/14/11 17:48 EST		0	Source: State Official
Trees were down in the city of Charlottesville.				
NELSON COUNTY --- 1.1 ENE ARRINGTON [37.68, -78.90]				
	08/14/11 18:14 EST		5K	Thunderstorm Wind (EG 52 kt)
	08/14/11 18:14 EST		0	Source: State Official
Trees were down on Arrington Road.				
NELSON COUNTY --- 1.4 NNW NORWOOD [37.67, -78.84]				
	08/14/11 18:20 EST		35K	Thunderstorm Wind (EG 61 kt)
	08/14/11 18:20 EST		0	Source: Emergency Manager
Approximately forty to fifty trees were down in the area from Variety Mills Road, Williamstown Road, and Wilson Road.				
LOUDOUN COUNTY --- 2.2 NE TAYLORSTOWN [39.27, -77.55]				
	08/14/11 19:22 EST		1K	Thunderstorm Wind (EG 52 kt)
	08/14/11 19:22 EST		0	Source: NWS Employee
A large tree was down on Route 15 blocking traffic.				
An upper-level trough was over the region on the 14th. Colder air aloft due to the upper trough caused moderate amounts of instability to develop. A surface trough triggered showers and thunderstorms and some thunderstorms produced damaging wind gusts due to the moderate instability.				
FAIRFAX (C) COUNTY --- 1.3 ENE FAIRFAX [38.86, -77.28]				
	08/18/11 16:24 EST		0	Hail (1.00 in)
	08/18/11 16:24 EST		0	Source: Trained Spotter
Quarter sized hail was reported in Fairfax.				
LOUDOUN COUNTY --- 1.9 SSE WAXPOOL [39.00, -77.50]				

Storm Data and Unusual Weather Phenomena - August 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	08/18/11 16:55 EST		0	Hail (1.00 in)
	08/18/11 16:55 EST		0	Source: NWS Employee
Quarter sized hail was reported near Herndon.				
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FAIRFAX COUNTY --- 1.0 S SUNSET HILLS [38.93, -77.35]				
	08/18/11 17:00 EST		0.50K	Thunderstorm Wind (EG 50 kt)
	08/18/11 17:00 EST		0	Source: Trained Spotter
Tree limbs that were two inches in diameter were snapped off softwood trees.				
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LOUDOUN COUNTY --- 0.5 NNE STERLING [39.01, -77.42]				
	08/18/11 17:07 EST		0	Hail (1.00 in)
	08/18/11 17:07 EST		0	Source: Trained Spotter
Quarter sized hail was reported in Sterling.				
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LOUDOUN COUNTY --- 2.2 SSW BROAD RUN FARMS [39.00, -77.39]				
	08/18/11 17:08 EST		0	Hail (1.00 in)
	08/18/11 17:08 EST		0	Source: Trained Spotter
Quarter sized hail was reported near Sterling Park.				
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PRINCE WILLIAM COUNTY --- 1.3 WSW CATHARPIN [38.84, -77.59]				
	08/18/11 18:15 EST		0	Hail (1.00 in)
	08/18/11 18:15 EST		0	Source: Public
Quarter sized hail was reported near Catharpin.				
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PRINCE WILLIAM COUNTY --- 1.2 SE CATHARPIN [38.84, -77.55]				
	08/18/11 18:26 EST		0	Hail (1.50 in)
	08/18/11 18:26 EST		0	Source: Public
Hail up to ping pong balls in size was reported near Catharpin.				
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FAIRFAX COUNTY --- 3.2 WNW BULL RUN [38.84, -77.54]				
	08/18/11 18:30 EST		0	Hail (1.75 in)
	08/18/11 18:30 EST		0	Source: Trained Spotter
Golf ball sized hail was reported.				
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PRINCE WILLIAM COUNTY --- 2.1 ESE CATHARPIN [38.84, -77.53]				
	08/18/11 18:30 EST		0	Hail (1.75 in)
	08/18/11 18:30 EST		0	Source: Public
Hail up to golf balls in size was reported.				
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WARREN COUNTY --- 1.6 W BROWNTOWN [38.80, -78.26]				
	08/18/11 18:33 EST		0	Hail (1.00 in)
	08/18/11 18:33 EST		0	Source: Public
Quarter sized hail was reported near Browntown.				
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SHENANDOAH COUNTY --- 1.4 NNW WOODSTOCK [38.90, -78.53]				
	08/18/11 18:54 EST		1K	Thunderstorm Wind (EG 50 kt)
	08/18/11 18:54 EST		0	Source: State Official
A tree was down near the intersection of Fravel Road and Spring Hollow Road.				
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LOUDOUN COUNTY --- 2.0 SSW PLEASANT VLY [38.89, -77.49]				
	08/18/11 19:00 EST		0	Hail (1.75 in)
	08/18/11 19:00 EST		0	Source: Public

Storm Data and Unusual Weather Phenomena - August 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Golf ball sized hail was reported near the Dulles Airport.				
LOUDOUN COUNTY --- 0.5 ENE WAXPOOL [39.02, -77.51]				
	08/18/11 20:20 EST		0	Hail (1.00 in)
	08/18/11 20:20 EST		0	Source: Trained Spotter
Quarter sized hail was reported near Ashburn.				
RAPPAHANNOCK COUNTY --- 0.9 NW ROCK MILLS [38.66, -78.14]				
	08/18/11 21:32 EST		3K	Thunderstorm Wind (EG 50 kt)
	08/18/11 21:32 EST		0	Source: State Official
Trees were down on Rock Mills Road.				
RAPPAHANNOCK COUNTY --- 0.7 E BEU VENUE [38.72, -78.07]				
	08/18/11 21:34 EST		3K	Thunderstorm Wind (EG 50 kt)
	08/18/11 21:34 EST		0	Source: State Official
Trees were down on Richmond Road.				
CULPEPER COUNTY --- 0.6 NW MONUMENT MILLS [38.61, -78.01]				
	08/18/11 21:54 EST		0	Hail (1.00 in)
	08/18/11 21:54 EST		0	Source: Public
Quarter sized hail was reported near Viewtown.				
CULPEPER COUNTY --- 0.6 NW MONUMENT MILLS [38.61, -78.01]				
	08/18/11 21:56 EST		1K	Thunderstorm Wind (EG 52 kt)
	08/18/11 21:56 EST		0	Source: Public
Large tree limbs were broken in thunderstorm winds.				
A southerly flow around high pressure off the east coast produced hot and humid conditions. The hot and humid conditions combined with colder air aloft associated with an upper-level trough to produce moderate amounts of instability. Some thunderstorms that developed produced damaging wind gusts and large hail.				
FREDERICK COUNTY --- 1.1 ENE GREEN SPG [39.30, -78.15]				
	08/19/11 16:28 EST		0	Hail (1.00 in)
	08/19/11 16:28 EST		0	Source: Public
Quarter sized hail was reported near Cedar Hill.				
FREDERICK COUNTY --- 0.9 E GRIMES [39.28, -78.11]				
	08/19/11 16:45 EST		10K	Thunderstorm Wind (EG 52 kt)
	08/19/11 16:45 EST		0	Source: State Official
Two trees fell onto an automobile.				
PRINCE WILLIAM COUNTY --- 1.8 E KEPP [38.58, -77.42]				
	08/19/11 17:44 EST		1K	Thunderstorm Wind (EG 52 kt)
	08/19/11 17:44 EST		0	Source: Park/Forest Service
Law Enforcement moved a tree from Mawavi Road in Prince William Forest Park.				
FAIRFAX COUNTY --- 0.8 S VIENNA [38.89, -77.27]				
	08/19/11 18:19 EST		1K	Thunderstorm Wind (EG 50 kt)
	08/19/11 18:19 EST		0	Source: COOP Observer
A tree was down on a power line near the intersection of Meadow Lane and Gibson Drive.				
ARLINGTON COUNTY --- 1.1 NW ROSSLYN [38.89, -77.10]				

Storm Data and Unusual Weather Phenomena - August 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	08/19/11 19:15 EST		0	Lightning
	08/19/11 19:15 EST	2	0	Source: Broadcast Media

Two people were struck by lightning at the intersection of Key Boulevard and Franklin Road.

An upper-level trough provided cold air aloft while warm and moist air remained at the surface. Moderate amounts of instability developed during the afternoon and evening hours. An isolated thunderstorm was able to produce damaging wind gusts.

FAIRFAX COUNTY --- 0.5 W MERRIFIELD [38.87, -77.24], 0.9 WSW MERRIFIELD [38.86, -77.24], 0.6 SW MERRIFIELD [38.86, -77.24], 0.5 WSW MERRIFIELD [38.87, -77.24]

08/19/11 18:52 EST	0	Flash Flood (due to Heavy Rain)
08/19/11 19:45 EST	0	Source: State Official

A vehicle was stuck in high water near the intersection of Route 50 and Prosperity Avenue. A swift water rescue was performed.

ARLINGTON COUNTY --- 0.7 N ROSSLYN [38.89, -77.08], 0.7 N ROSSLYN [38.89, -77.08], 0.5 N ROSSLYN [38.89, -77.08], 0.5 NNW ROSSLYN [38.89, -77.08], 0.5 NNW ROSSLYN [38.89, -77.08]

08/19/11 19:35 EST	0	Flash Flood (due to Heavy Rain)
08/19/11 20:00 EST	0	Source: State Official

High water forced the partial closure of Route 50 between 10th Street North and North Queen Street.

An upper-level disturbance combined with a moist, unstable airmass to induce scattered thunderstorms during the afternoon and evening hours. Very heavy rainfall rates with some of this activity in the Washington, DC, suburbs caused a few flash floods.

HIGHLAND COUNTY --- 0.1 SE CLOVER CREEK [38.27, -79.55]

08/21/11 11:06 EST	0	Hail (1.00 in)
08/21/11 11:06 EST	0	Source: Public

Quarter sized hail was reported at Clover Creek.

LOUDOUN COUNTY --- 1.8 S BLOOMFIELD [39.00, -77.80]

08/21/11 12:20 EST	1K	Thunderstorm Wind (EG 52 kt)
08/21/11 12:20 EST	0	Source: Trained Spotter

A large tree broken due to thunderstorm winds.

FAUQUIER COUNTY --- 1.8 SE UPPERVILLE [38.98, -77.85]

08/21/11 12:21 EST	0	Hail (1.75 in)
08/21/11 12:21 EST	0	Source: Public

Golf ball sized hail was reported near Upperville.

LOUDOUN COUNTY --- 3.7 SW BLOOMFIELD [38.99, -77.85]

08/21/11 12:21 EST	0	Hail (1.00 in)
08/21/11 12:21 EST	0	Source: Public

Quarter sized hail was reported near Upperville.

LOUDOUN COUNTY --- 3.5 SW BLOOMFIELD [38.99, -77.84]

08/21/11 12:28 EST	2K	Thunderstorm Wind (EG 56 kt)
08/21/11 12:28 EST	0	Source: Public

Four large trees were down due to thunderstorm winds.

LOUDOUN COUNTY --- 3.7 SW BLOOMFIELD [38.99, -77.85]

08/21/11 12:28 EST	1K	Thunderstorm Wind (EG 56 kt)
08/21/11 12:28 EST	0	Source: Public

Large limbs were down due to thunderstorm winds.

FAUQUIER COUNTY --- 1.1 N ORLEAN [38.77, -77.95]

Storm Data and Unusual Weather Phenomena - August 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	08/21/11 12:40 EST		0	Hail (1.00 in)
	08/21/11 12:40 EST		0	Source: Public

Quarter sized hail was reported near Orlean.

FAUQUIER COUNTY --- 1.1 N ORLEAN [38.77, -77.95]

	08/21/11 12:40 EST		0	Thunderstorm Wind (EG 50 kt)
	08/21/11 12:40 EST		0	Source: Public

Some small branches were broken from trees.

FAUQUIER COUNTY --- 0.2 WNW DUDIE [38.73, -77.88]

	08/21/11 13:10 EST		5K	Thunderstorm Wind (EG 50 kt)
	08/21/11 13:10 EST		0	Source: State Official

Several trees were down across the county.

ALBEMARLE COUNTY --- 2.4 SSW SIMEON [37.95, -78.46]

	08/21/11 13:52 EST		3K	Thunderstorm Wind (EG 52 kt)
	08/21/11 13:52 EST		0	Source: State Official

Large trees were down near the intersection of Rolling road and Blue State Lane.

ALBEMARLE COUNTY --- 2.8 ESE SIMEON [37.96, -78.41]

	08/21/11 13:53 EST		3K	Thunderstorm Wind (EG 52 kt)
	08/21/11 13:53 EST		0	Source: State Official

Trees and wires were down on Buck Island Road.

ALBEMARLE COUNTY --- 3.1 ESE SIMEON [37.96, -78.40]

	08/21/11 13:54 EST		1K	Thunderstorm Wind (EG 50 kt)
	08/21/11 13:54 EST		0	Source: Public

A few large branches were torn off in thunderstorm winds.

A cold front approached the area from the Ohio Valley on the 21st. Warm and moist air ahead of the boundary caused an unstable atmosphere. Some thunderstorms ahead of the cold front produced damaging winds and large hail.

MADISON COUNTY --- 1.5 NNE MADISON [38.40, -78.26]

	08/25/11 14:25 EST		5K	Thunderstorm Wind (EG 56 kt)
	08/25/11 14:25 EST		0	Source: Trained Spotter

Sixteen trees were down or snapped along the 140 Block of Hebron Court.

MADISON COUNTY --- 1.6 ENE MADISON [38.39, -78.25]

	08/25/11 14:26 EST		1K	Thunderstorm Wind (EG 52 kt)
	08/25/11 14:26 EST		0	Source: State Official

A tree was down along the 1100 Block of Clore Road.

MADISON COUNTY --- 1.5 SW BRIGHTWOOD [38.40, -78.22]

	08/25/11 14:28 EST		2K	Thunderstorm Wind (EG 56 kt)
	08/25/11 14:28 EST		0	Source: State Official

Multiple trees were down along Lonnie Burke Road near US Route 29.

ORANGE COUNTY --- 1.3 WNW WILDERNESS [38.34, -77.75]

	08/25/11 15:14 EST		5K	Thunderstorm Wind (EG 56 kt)
	08/25/11 15:14 EST		0	Source: Amateur Radio

A few trees were down. One tree fell onto a transformer.

Storm Data and Unusual Weather Phenomena - August 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
STAFFORD COUNTY --- 1.0 SW LEELAND [38.34, -77.44]				
	08/25/11 15:15 EST		1K	Thunderstorm Wind (EG 56 kt)
	08/25/11 15:15 EST		0	Source: Trained Spotter
Multiple branches were broken off and laying along Route 3 just northwest of the Route 20 intersection.				
SPOTSYLVANIA COUNTY --- 1.6 WNW WILDERNESS CORNER [38.33, -77.73]				
	08/25/11 15:16 EST		5K	Thunderstorm Wind (EG 66 kt)
	08/25/11 15:16 EST		0	Source: Trained Spotter
Large trees were snapped near the intersection of route 3 and Route 20.				
CULPEPER COUNTY --- 1.1 SSW RICHARDSVILLE [38.38, -77.74]				
	08/25/11 15:19 EST		0	Hail (1.00 in)
	08/25/11 15:19 EST		0	Source: Public
Quarter sized hail was reported.				
CULPEPER COUNTY --- 1.1 SSW RICHARDSVILLE [38.38, -77.74]				
	08/25/11 15:19 EST		30K	Thunderstorm Wind (EG 66 kt)
	08/25/11 15:19 EST		0	Source: Public
Significant tree damage was reported near Richardsville. An entire row of trees were down and a tree fell onto a house.				
FREDERICKSBURG (C) COUNTY --- 2.0 W FREDERICKSBURG [38.30, -77.51]				
	08/25/11 15:40 EST		0	Thunderstorm Wind (EG 52 kt)
	08/25/11 15:40 EST		0	Source: Trained Spotter
Debris was lofted by thunderstorm winds.				
SPOTSYLVANIA COUNTY --- 1.1 E FIVE MILE [38.28, -77.53]				
	08/25/11 15:40 EST		0	Hail (1.00 in)
	08/25/11 15:40 EST		0	Source: Trained Spotter
Quarter sized hail was reported near Fredericksburg.				
SPOTSYLVANIA COUNTY --- 1.1 E FIVE MILE [38.28, -77.53]				
	08/25/11 15:40 EST		1K	Thunderstorm Wind (EG 52 kt)
	08/25/11 15:40 EST		0	Source: Trained Spotter
Several tree branches about two to three inches in diameter were snapped off.				
FREDERICKSBURG (C) COUNTY --- 0.2 SW FREDERICKSBURG [38.30, -77.47]				
	08/25/11 15:43 EST		1K	Thunderstorm Wind (EG 56 kt)
	08/25/11 15:43 EST		0	Source: Trained Spotter
Tree limbs were broken due to thunderstorm winds.				
STAFFORD COUNTY --- 0.9 SW SULLIVAN [38.31, -77.41]				
	08/25/11 15:50 EST		1K	Thunderstorm Wind (EG 56 kt)
	08/25/11 15:50 EST		0	Source: Amateur Radio
A tree that was about 30 inches in diameter was down across power lines.				
STAFFORD COUNTY --- 1.1 ESE FALMOUTH [38.31, -77.45]				
	08/25/11 15:52 EST		5K	Thunderstorm Wind (EG 56 kt)
	08/25/11 15:52 EST		0	Source: Amateur Radio
Numerous trees were down.				
KING GEORGE COUNTY --- 0.5 NE AMBAR [38.32, -77.17]				

Storm Data and Unusual Weather Phenomena - August 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	08/25/11 16:10 EST		2K	Thunderstorm Wind (EG 56 kt)
	08/25/11 16:10 EST		0	Source: State Official

A few trees and power lines were down near the intersection of Caledon Road and Indiantown Road.

KING GEORGE COUNTY --- 1.2 S NINDE [38.25, -77.05]

	08/25/11 16:20 EST		2K	Thunderstorm Wind (EG 56 kt)
	08/25/11 16:20 EST		0	Source: State Official

Trees were down along Round Hill Road.

A cold front passed moved into the region on the 25th. Tropical moisture ahead of the front caused moderate amounts of instability to develop. Thunderstorms that developed ahead of the cold front were able to produce damaging winds and large hail.

(VA-Z029) PAGE, (VA-Z036) NELSON, (VA-Z037) ALBEMARLE, (VA-Z038) GREENE, (VA-Z039) MADISON, (VA-Z042) LOUDOUN, (VA-Z050) ORANGE, (VA-Z052) PRINCE WILLIAM, (VA-Z053) FAIRFAX, (VA-Z054) ARLINGTON, (VA-Z055) STAFFORD, (VA-Z056) SPOTSYLVANIA, (VA-Z057) KING GEORGE

	08/27/11 11:42 EST		0.48M	Tropical Storm
	08/28/11 09:00 EST		0	

Hurricane Irene tracked up the Mid-Atlantic Coast during the evening hours of the 27th through the early morning hours of the 28th. Irene passed by just to the east of Ocean City, Maryland during the early morning hours of the 28th. The minimum central pressure was 958 millibars and maximum sustained winds were 80 mph, making Irene a category one hurricane. Irene produced tropical storm conditions across portions of northern and central Virginia. The worst conditions were near east of the Interstate 95 Corridor.

Rainfall totals over 2 inches were reported in Stafford County. Widespread power outages were reported across northern and central Virginia mainly east of the Interstate 95 Corridor. Numerous trees were also down and damage was estimated to be over one hundred thousand dollars.

STAFFORD COUNTY --- 1.3 ENE FALMOUTH [38.33, -77.45], 0.9 NW FERRY FARMS [38.33, -77.44], 0.9 WNW FERRY FARMS [38.33, -77.45], 1.1 NE FALMOUTH [38.33, -77.45]

	08/27/11 20:23 EST		0	Flash Flood (due to Heavy Rain)
	08/27/11 22:00 EST		0	Source: Emergency Manager

Harrell Road was closed between Forbes Street and Deacon Road due to flash flooding from Claiborne Run. A nearby rain gauge totaled 2.40 inches.

STAFFORD COUNTY --- 1.3 ENE FALMOUTH [38.33, -77.45], 1.1 NW FERRY FARMS [38.33, -77.45], 1.0 WNW FERRY FARMS [38.33, -77.45], 1.1 ENE FALMOUTH [38.33, -77.45]

	08/27/11 22:00 EST		0	Flood (due to Heavy Rain)
	08/28/11 03:00 EST		0	Source: Emergency Manager

Harrell Road was flooded and closed due to earlier rainfall on Claiborne Run.

Hurricane Irene tracked up the Mid-Atlantic Coast during the afternoon and evening hours of the 27th. Heavy rains associated with Irene and her rainbands fell over saturated Stafford County. Flash flooding resulted in some areas and flooding continued into the 28th as waters rose. Storm total rainfall reached 2.79 near Stafford.

(VA-Z026) ROCKINGHAM, (VA-Z027) SHENANDOAH, (VA-Z029) PAGE, (VA-Z030) WARREN, (VA-Z031) CLARKE

	08/29/11 21:55 EST		0	Dense Fog
	08/30/11 08:15 EST		0	

High pressure overhead caused light winds and mainly clear skies. Radiational cooling led to the development of dense fog across portions of the Shenandoah Valley in Virginia.

WEST VIRGINIA, East

HAMPSHIRE COUNTY --- 1.3 WSW HANGING ROCK [39.27, -78.57]

	08/01/11 14:00 EST		1K	Thunderstorm Wind (EG 50 kt)
	08/01/11 14:00 EST		0	Source: Public

Multiple tree branches were blown down along US 50.

Storm Data and Unusual Weather Phenomena - August 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
HAMPSHIRE COUNTY --- 1.3 WSW HANGING ROCK [39.27, -78.57]				
	08/01/11 14:02 EST		0	Hail (1.25 in)
	08/01/11 14:02 EST		0	Source: Public
Hail up to half dollars in size was reported just off of Route 50.				
BERKELEY COUNTY --- 0.9 NE (MRB)SHEPHERD FLD MR [39.41, -77.97]				
	08/01/11 16:58 EST		0	Thunderstorm Wind (MG 59 kt)
	08/01/11 16:58 EST		0	Source: ASOS
A wind gust of 68 mph was measured at the Martinsburg Airport.				
BERKELEY COUNTY --- 2.1 NNE TARICO HGTS [39.36, -77.99]				
	08/01/11 17:02 EST		0	Thunderstorm Wind (EG 52 kt)
	08/01/11 17:02 EST		0	Source: Trained Spotter
Wind gusts up to 60 mph were estimated near Vanville.				
BERKELEY COUNTY --- 1.6 NE TOMAHAWK [39.55, -78.03]				
	08/01/11 17:10 EST		10K	Thunderstorm Wind (EG 56 kt)
	08/01/11 17:10 EST		0	Source: Trained Spotter
A tree fell on top of a car on Back Creek Valley Road.				
<p>An upper-level ridge was centered over the southern Plains while an upper-level low was located over central Canada. A northwest flow between these two systems caused colder air aloft to move overhead. Warm and moist air at the surface combined with the colder air aloft to produce moderate amounts of instability. A pressure trough at the surface caused showers and thunderstorms to develop. Moderate instability caused some thunderstorms to produce damaging wind gusts and large hail.</p>				
BERKELEY COUNTY --- 1.4 WSW NOLLVILLE [39.46, -78.04]				
	08/13/11 13:45 EST		5K	Thunderstorm Wind (EG 52 kt)
	08/13/11 13:45 EST		0	Source: Public
Several trees and large limbs were down due to thunderstorm winds.				
<p>A stationary boundary remained over the region during the 13th. Moderate instability ahead of the stationary boundary caused an isolated thunderstorm to produce damaging wind gusts.</p>				
BERKELEY COUNTY --- 0.7 N MARTINSBURG [39.46, -77.97], 1.9 NNW MARTINSBURG [39.48, -77.98], 1.3 SSW BERKELEY [39.48, -77.94], 1.2 W BLAIRTON [39.45, -77.94]				
	08/13/11 14:13 EST		0	Flash Flood (due to Heavy Rain)
	08/13/11 15:00 EST		0	Source: Public
Numerous roadways were reported to have water of depth greater than 6 inches flowing across them. A nearby spotter measured 1.32 inches.				
<p>Deep layer southerly flow advected a moist, tropical airmass into the Mid-Atlantic. High rainfall rates from training thunderstorms in an urban area create an isolated flash flood evening in Berkeley County. Rainfall amounts of up to 1.5 inches were observed in less than an hour in Martinsburg.</p>				
BERKELEY COUNTY --- 1.5 NE MARLOWE [39.60, -77.85]				
	08/18/11 19:31 EST		0	Hail (1.00 in)
	08/18/11 19:31 EST		0	Source: Public
Quarter sized hail was reported near Williamsport.				
BERKELEY COUNTY --- 2.6 WNW MARLOWE [39.59, -77.92]				
	08/18/11 21:05 EST		0	Hail (1.00 in)
	08/18/11 21:05 EST		0	Source: Trained Spotter
Quarter sized hail was reported near Falling Waters.				
<p>A southerly flow around high pressure off the east coast produced hot and humid conditions. The hot and humid conditions combined with colder air aloft associated with an upper-level trough to produce moderate amounts of instability. A couple thunderstorms that</p>				

Storm Data and Unusual Weather Phenomena - August 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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developed produced damaging large hail.

MORGAN COUNTY --- 0.4 WSW NEW HOPE [39.60, -78.18]

08/19/11 15:54 EST			1K	Thunderstorm Wind (EG 56 kt)
08/19/11 15:54 EST			0	Source: State Official

A large tree was down on New Hope road.

MORGAN COUNTY --- 1.3 S NEW HOPE [39.58, -78.17]

08/19/11 15:58 EST			0	Thunderstorm Wind (EG 56 kt)
08/19/11 15:58 EST			0	Source: Public

Storm drains were ripped from a house due to thunderstorm winds.

An upper-level trough provided cold air aloft while warm and moist air remained at the surface. Moderate amounts of instability developed during the afternoon and evening hours. An isolated thunderstorm was able to produce damaging wind gusts.

(WV-Z053) JEFFERSON

08/30/11 01:30 EST			0	Dense Fog
08/30/11 08:15 EST			0	

High pressure overhead caused light winds and mainly clear skies. Radiational cooling led to the development of dense fog across portions of the eastern Panhandle in West Virginia.