

Storm Data and Unusual Weather Phenomena - September 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ATLANTIC NORTH				
CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- 2.1 E PHILLIPS ARMY AIRFIELD [39.47, -76.13]				
	09/16/10 15:30 EST		0	Marine Thunderstorm Wind (EG 40 kt)
	09/16/10 15:30 EST		0	Source: Other Federal Agency
Wind gust of 46 mph measured at Aberdeen Proving Ground.				
TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- WASHINGTON NATIONALS PARK [38.87, -77.01]				
	09/17/10 00:09 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	09/17/10 00:09 EST		0	Source: Mesonet
A wind gust of over 30 knots was observed at the Washington Nationals Park.				
TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- BISHOPS HEAD [38.22, -76.04]				
	09/17/10 02:06 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	09/17/10 02:07 EST		0	Source: Mesonet
Wind gusts of over 30 knots were observed at Bishops Head.				
A decaying band of showers and thunderstorms crossed the Blue Ridge and produced isolated strong winds along the Tidal Potomac River in the Washington DC metropolitan area.				
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.9 SE GREENBERRY POINT [38.96, -76.45]				
	09/22/10 19:10 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	09/22/10 19:10 EST		0	Source: Buoy
Wind gust of 34 knots measured at Annapolis CBIBS buoy.				
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.8 N US NAVAL ACADEMY [38.99, -76.49]				
	09/22/10 19:33 EST		0	Marine Thunderstorm Wind (MG 38 kt)
	09/22/10 19:48 EST		0	Source: ASOS
Wind gusts from 34 to 38 knots were measured at the Annapolis Naval Academy.				
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 6.3 SSW THOMAS POINT LIGHT [38.82, -76.50]				
	09/22/10 19:55 EST		0	Marine Thunderstorm Wind (EG 40 kt)
	09/22/10 19:55 EST		0	Source: Public
Estimated wind gusts of 40 knots at Columbia Beach.				
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.9 SE GREENBERRY POINT [38.96, -76.45]				
	09/22/10 20:00 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	09/22/10 20:00 EST		0	Source: Buoy
Wind gust of 34 knots estimated at Annapolis CBIBS buoy.				
An upper level disturbance and cold front moved out of the Ohio Valley into a very warm and relatively moist atmosphere in the Mid-Atlantic. Thunderstorms developed along this front as well as a lee trough during the afternoon. Instability, steep lapse rates, and moderate shear aided in some thunderstorms becoming severe, producing strong winds over the waters during the afternoon and evening.				
CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- 0.5 E CHESAPEAKE BEACH [38.69, -76.53]				
	09/28/10 05:00 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	09/28/10 05:10 EST		0	Source: Mesonet
Wind gusts to 35 mph were measured at Chesapeake Beach.				
CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- 1.0 SE CHESAPEAKE BEACH [38.68, -76.53]				
	09/28/10 05:00 EST		0	Marine Thunderstorm Wind (EG 35 kt)
	09/28/10 05:10 EST		0	Source: NWS Employee

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Wind gusts to 35 mph were estimated south and southeast of Chesapeake Beach.

Strong southerly flow up the eastern seaboard brought a warm, moisture-rich atmospheric to the Mid-Atlantic during the early morning of September 28. As a cold front passed across the Chesapeake Bay, thunderstorms developed in the unstable air, and stronger winds aloft were able to mix down to the surface in some of these thunderstorms.

PATUXENT RIVER TO BROOMES ISLAND MD COUNTY --- 0.3 SW PATUXENT RIVER ASOS [38.29, -76.41]

09/30/10 08:12 EST	0	Marine Thunderstorm Wind (MG 34 kt)
09/30/10 08:12 EST	0	Source: ASOS

Wind gust of 34 knots measured at Patuxent River Naval Air Station.

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

09/30/10 08:41 EST	0	Marine Thunderstorm Wind (MG 34 kt)
09/30/10 08:41 EST	0	Source: Buoy

Wind gust of 34 knots observed at Greenbury Point.

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

09/30/10 10:20 EST	0	Marine Thunderstorm Wind (EG 49 kt)
09/30/10 10:20 EST	0	Source: Buoy

A wind gust of 48.7 knots was measured at Thomas Point Lighthouse.

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

09/30/10 15:16 EST	0	Marine Thunderstorm Wind (MG 34 kt)
09/30/10 15:24 EST	0	Source: Buoy

Wind gusts of up to 34 knots were measured at Bishops Head.

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

09/30/10 16:24 EST	0	Marine Thunderstorm Wind (MG 36 kt)
09/30/10 16:24 EST	0	Source: Buoy

A 36 knot wind gust was measured at Bishops Head.

TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- LEWISSETTA [38.00, -76.47]

09/30/10 21:48 EST	0	Marine Thunderstorm Wind (MG 35 kt)
09/30/10 21:48 EST	0	Source: Buoy

A 35 knot wind gust was measured at Lewisetta.

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

09/30/10 22:06 EST	0	Marine Thunderstorm Wind (MG 35 kt)
09/30/10 23:00 EST	0	Source: Buoy

Wind gusts of up to 35 knots were measured at Bishops Head.

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

09/30/10 22:15 EST	0	Marine Thunderstorm Wind (MG 36 kt)
09/30/10 22:15 EST	0	Source: Buoy

A 36 knot wind gust was measured at Point Lookout.

CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- SMITH ISLAND [37.98, -76.04]

09/30/10 22:17 EST	0	Marine Thunderstorm Wind (MG 36 kt)
09/30/10 22:17 EST	0	Source: Buoy

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

A surface low pressure system moved northward up the eastern seaboard along a north-to-south oriented stationary front. Very moist low level atmosphere and 70 knot southeasterly winds combined with modest instability to produce strong winds in the strongest thunderstorms that developed.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
DISTRICT OF COLUMBIA				
DISTRICT OF COLUMBIA COUNTY --- 1.2 N LINCOLN MEMORIAL [38.90, -77.05], 1.0 N LINCOLN MEMORIAL [38.89, -77.05], 1.2 N LINCOLN MEMORIAL [38.90, -77.05], 1.4 N LINCOLN MEMORIAL [38.90, -77.05]				
	09/30/10 07:30 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 09:15 EST		0	Source: Broadcast Media
Virginia Avenue NW was closed between 21st and 25th Streets due to flash flooding. A nearby rain gage measured 4.84 inches of storm total rainfall.				
DISTRICT OF COLUMBIA COUNTY --- 0.7 S BROOKLAND [38.92, -77.00], 0.8 S BROOKLAND [38.92, -77.00], 0.7 SSE BROOKLAND [38.92, -77.00], 0.6 SSE BROOKLAND [38.92, -77.00]				
	09/30/10 10:00 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 14:15 EST		0	Source: Broadcast Media
Rhode Island Avenue NE was closed near the Rhode Island Avenue METRO Station. High water rescues were underway. A cooperative observer near the event measured 4.67" of rain.				
<p>A rich plume of tropical moisture, originating from the western Caribbean Sea, spread northward along the east coast of the United States. Tropical Storm Nicole developed over the northwest Caribbean Sea. Though Nicole dissipated shortly after crossing Cuba, her associated moisture was funneled into another area of low pressure that developed along the Carolina coastline. Bands of heavy rain began to rapidly move into the District of Columbia just after midnight on Thursday morning, September 30. After the initial low pressure passed north of the area late Thursday morning after producing up to 4 inches of rain, a brief lull in precipitation occurred Thursday afternoon, before the remnant circulation of Tropical Storm Nicole moved up the Delmarva Peninsula, reinvigorating heavy rainfall. Storm total rainfall exceeded 5 inches, with a measured total of 5.59 inches being observed in the Eckington neighborhood.</p>				
MARYLAND, Central				
WASHINGTON COUNTY --- 0.7 N SHARPSBURG [39.46, -77.75]				
	09/16/10 22:30 EST		2K	Thunderstorm Wind (EG 50 kt)
	09/16/10 22:30 EST		0	Source: Fire Department/Rescue
A tree fell onto wires along Harpers Ferry Road in Sharpsburg.				
<p>A low pressure tracked eastward through the Great Lakes and into New York. An unstable and favorably sheared atmosphere west of the Appalachian mountains supported thunderstorm development during the afternoon. These thunderstorms weakened as they crossed the mountains into western Maryland, but still managed to produce isolated wind damage in Washington County.</p>				
HARFORD COUNTY --- 0.7 N WHITEFORD [39.71, -76.35]				
	09/22/10 16:22 EST		5K	Thunderstorm Wind (EG 61 kt)
	09/22/10 16:22 EST		0	Source: Trained Spotter
Numerous trees down near Whiteford.				
MONTGOMERY COUNTY --- 0.7 N KEMP MILL [39.04, -77.02]				
	09/22/10 18:34 EST		0	Thunderstorm Wind (MG 50 kt)
	09/22/10 18:34 EST		0	Source: Mesonet
A wind gusts of 58 mph was measured 1 mile north-northwest of Four Corners.				
ANNE ARUNDEL COUNTY --- 1.5 SSE (FME)TIPTON AAF FT M [39.05, -76.74]				
	09/22/10 18:53 EST		1K	Thunderstorm Wind (EG 52 kt)
	09/22/10 18:53 EST		0	Source: State Official
A tree was down at Piney Orchard and Patuxent Road.				
ANNE ARUNDEL COUNTY --- 1.5 SSW ODENTON [39.06, -76.71]				
	09/22/10 18:56 EST		1K	Thunderstorm Wind (EG 52 kt)
	09/22/10 18:56 EST		0	Source: Trained Spotter

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Tree branches were broken by strong thunderstorm wind 1 mile west-southwest of Odenton.				
ANNE ARUNDEL COUNTY --- 0.7 S MILLERSVILLE [39.04, -76.67]				
	09/22/10 18:57 EST		1K	Thunderstorm Wind (EG 52 kt)
	09/22/10 18:57 EST		0	Source: State Official
A tree was down at Maryland Route 3 and St. Stephens Church Road.				
PRINCE GEORGE'S COUNTY --- 0.7 S HILLMEADE [38.96, -76.80]				
	09/22/10 19:02 EST		2K	Thunderstorm Wind (EG 56 kt)
	09/22/10 19:02 EST		0	Source: State Official
Several trees were down on Point Way 2 miles south of Glen Dale.				
ANNE ARUNDEL COUNTY --- 1.3 WSW CROFTON [38.99, -76.67]				
	09/22/10 19:08 EST		1K	Thunderstorm Wind (EG 52 kt)
	09/22/10 19:08 EST		0	Source: State Official
A tree was down at Maryland Route 424 and Maryland Route 450 2 miles southeast of Crofton.				
HARFORD COUNTY --- 0.7 S BLACK HORSE [39.61, -76.55]				
	09/22/10 19:13 EST		2K	Thunderstorm Wind (EG 56 kt)
	09/22/10 19:13 EST		0	Source: State Official
Trees were down along Old York Road 4 miles east-northeast of Monkton.				
HARFORD COUNTY --- 0.9 NE MADONNA [39.63, -76.51]				
	09/22/10 19:14 EST		3K	Thunderstorm Wind (EG 56 kt)
	09/22/10 19:14 EST		0	Source: State Official
Multiple trees were down at Madonna Road and Cox Road 3 miles northwest of Jarrettsville.				
PRINCE GEORGE'S COUNTY --- 1.5 NNE MITCHELLVILLE [38.94, -76.74]				
	09/22/10 19:16 EST		2K	Thunderstorm Wind (EG 56 kt)
	09/22/10 19:16 EST		0	Source: State Official
Several trees were down on Northview Drive 1 mile south of Bowie.				
PRINCE GEORGE'S COUNTY --- 2.5 NE MITCHELLVILLE [38.95, -76.72]				
	09/22/10 19:18 EST		3K	Thunderstorm Wind (EG 61 kt)
	09/22/10 19:18 EST		0	Source: Law Enforcement
Numerous trees were down near retail locations along the 4100 block of Crain Highway.				
PRINCE GEORGE'S COUNTY --- 2.6 NE MITCHELLVILLE [38.95, -76.72]				
	09/22/10 19:18 EST		3K	Thunderstorm Wind (EG 56 kt)
	09/22/10 19:18 EST		0	Source: State Official
Multiple trees down near the intersection of Governors Bridge Road and U.S. 301.				
PRINCE GEORGE'S COUNTY --- 3.0 NE MITCHELLVILLE [38.95, -76.71]				
	09/22/10 19:18 EST		3K	Thunderstorm Wind (EG 61 kt)
	09/22/10 19:18 EST		0	Source: State Official
Numerous trees were down near U.S. 301 and U.S. 50 interchange 1 mile east-southeast of Bowie.				
ANNE ARUNDEL COUNTY --- 1.3 WNW DAVIDSONVILLE [38.93, -76.65]				
	09/22/10 19:29 EST		1K	Thunderstorm Wind (EG 56 kt)
	09/22/10 19:29 EST		0	Source: State Official
A tree was down at the intersection of Mount Airy Road and Royal Glen Avenue 1 mile west-northwest of Davidsonville.				

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ANNE ARUNDEL COUNTY --- 0.7 S RUTLAND [38.96, -76.63]				
	09/22/10 19:31 EST		1K	Thunderstorm Wind (EG 61 kt)
	09/22/10 19:31 EST		0	Source: Public
Several trees had their tops sheared off. Many large branches were also snapped 2 miles west-northwest of Riva.				
BALTIMORE COUNTY --- 0.9 NW HYDES [39.49, -76.51]				
	09/22/10 19:40 EST		5K	Thunderstorm Wind (EG 65 kt)
	09/22/10 19:40 EST		0	Source: Public
Multiple large trees were downed. Trees were snapped off at the tops and many large limbs were down 1 mile west-northwest of Hydes.				
BALTIMORE COUNTY --- 0.5 E LONG GREEN [39.47, -76.52]				
	09/22/10 19:41 EST		5K	Thunderstorm Wind (EG 70 kt)
	09/22/10 19:41 EST		0	Source: Public
Multiple trees were down in Long Green.				
BALTIMORE COUNTY --- 0.7 S BALDWIN [39.49, -76.47]				
	09/22/10 19:45 EST		3K	Thunderstorm Wind (EG 56 kt)
	09/22/10 19:45 EST		0	Source: Post Office
A few trees were down on Baldwin Mill Road south of Sweet Air Road and on Long Green Pike north of Hydes Road.				
ANNE ARUNDEL COUNTY --- 0.9 NW CUMBERSTONE [38.86, -76.56]				
	09/22/10 19:51 EST		2K	Thunderstorm Wind (EG 52 kt)
	09/22/10 19:51 EST		0	Source: Public
Two large trees downed and fell onto powerlines at the corner of Muddy Creek Road and Cumberstone Road 1 mile northwest of Galesville.				
An upper level disturbance and cold front moved out of the Ohio Valley into a very warm and relatively moist atmosphere in the Mid-Atlantic. Thunderstorms developed along this front as well as a lee trough during the afternoon. Instability, steep lapse rates, and moderate shear aided in some thunderstorms becoming severe, producing damaging winds during the evening.				
MONTGOMERY COUNTY --- 1.1 NE WESTMORE [39.11, -77.13], 1.8 W NORBECK [39.12, -77.11], 0.8 NNW TWIN BROOK [39.08, -77.10], 0.5 N AUTREY PARK [39.08, -77.12]				
	09/27/10 12:21 EST		0	Flash Flood (due to Heavy Rain)
	09/27/10 14:21 EST		0	Source: Emergency Manager
Flash Flooding was reported at the intersection of Route 28 and Avery Road. There was also additional flooding along Rock Creek.				
Early in the last week of September, a rich plume of tropical moisture, originating from the western Caribbean Sea, spread northward along the east coast of the United States. As this moisture interacted with a stationary boundary across Virginia, widespread moderate to heavy rain fell across the Mid-Atlantic September 27. Rainfall amounts of 2 to 4 inches caused minor isolated flash flooding in Montgomery County, Maryland.				
ST. MARY'S COUNTY --- 0.7 N BEAUVUE [38.26, -76.63], 1.1 W REDGATE [38.27, -76.62], 0.7 W REDGATE [38.27, -76.61], 0.6 E BEAUVUE [38.25, -76.62], 0.3 S BEAUVUE [38.25, -76.63]				
	09/30/10 04:22 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 09:15 EST		0	Source: State Official
Water was reported over Route 244. At the time of the report, rain gages in the area had measured up to 7" of rainfall.				
CALVERT COUNTY --- 0.7 N NORTH BEACH [38.71, -76.53], 0.2 WNW NORTH BEACH [38.70, -76.53], 0.8 WNW NORTH BEACH [38.70, -76.54], 1.1 NW NORTH BEACH [38.71, -76.54]				
	09/30/10 04:31 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 12:30 EST		0	Source: State Official
Several roads were flooding in North Beach. At the time of the report, a rain gage measured 6.30" near the event.				
BALTIMORE COUNTY --- 1.4 NE DUNDALK [39.28, -76.50], 1.6 NE DUNDALK [39.29, -76.50], 1.8 ENE DUNDALK [39.28, -76.49], 1.5 ENE DUNDALK [39.28, -76.50]				

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	09/30/10 05:00 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 06:00 EST		0	Source: County Official

North Point Road was closed between German Hill Road and Willow Road. A mesonet site measured 8.47 inches of rain near the event.

MONTGOMERY COUNTY --- 0.3 W FRIENDSHIP HGTS [38.97, -77.09], 0.9 NNW FRIENDSHIP HGTS [38.98, -77.09], 1.1 NW FRIENDSHIP HGTS [38.98, -77.10], 0.7 WSW FRIENDSHIP HGTS [38.97, -77.09]

	09/30/10 06:14 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 09:15 EST		0	Source: Amateur Radio

Southbound lanes of Wisconsin Avenue were closed. A rain gage near the area measured 3.72 inches.

ST. MARY'S COUNTY --- 1.1 WNW REDGATE [38.28, -76.62], 0.6 W REDGATE [38.27, -76.61], 0.8 NE BEAUVUE [38.26, -76.62], 0.7 N BEAUVUE [38.26, -76.63]

	09/30/10 06:20 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 09:15 EST		0	Source: Trained Spotter

Medley's Neck Road was closed due to flooding. A rainfall report of 10.64 inches was received near the area.

ANNE ARUNDEL COUNTY --- 0.7 NNW LUSBY XRDS [38.99, -76.60], 0.7 W LUSBY XRDS [38.98, -76.61], 0.9 SE CROFTON [38.99, -76.64], 1.0 ESE CROFTON [38.99, -76.63]

	09/30/10 06:30 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 09:15 EST		0	Source: Broadcast Media

Route 450 was closed due to high water at Huntwood Drive. A rain gage in the area measured 9.79 inches.

BALTIMORE COUNTY --- 1.3 ENE DUNDALK [39.28, -76.50], 1.4 NE DUNDALK [39.29, -76.50], 1.4 NNE DUNDALK [39.29, -76.51], 1.1 NE DUNDALK [39.28, -76.51]

	09/30/10 08:00 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 11:15 EST		0	Source: Trained Spotter

Spotter observed 6 to 12 inches of flowing water over Merritt Blvd. A rain gage in the area measured 8.51 inches.

ANNE ARUNDEL COUNTY --- 0.7 N ARNOLD [39.04, -76.50], 1.2 SSW ST MARGARETS [39.01, -76.48], 0.7 NNE WARDOUR [39.01, -76.49], 0.8 WNW ARNOLD [39.03, -76.51]

	09/30/10 09:30 EST		0	Flood (due to Heavy Rain)
	09/30/10 15:30 EST		0	Source: Trained Spotter

One foot of standing water was observed on southbound Maryland Route 2 at the junction with Route 50 and Route 450. A rainfall report of 10.49 was also received from the area.

MONTGOMERY COUNTY --- 0.7 N TAKOMA PARK [38.98, -77.00], 0.9 NE TAKOMA PARK [38.98, -76.99], 1.0 NE TAKOMA PARK [38.98, -76.99], 1.1 N TAKOMA PARK [38.99, -77.00]

	09/30/10 10:00 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 14:15 EST		0	Source: Broadcast Media

Flash flooding was reported along Sligo Creek Parkway. A rainfall report from the area was received of 5.57 inches.

BALTIMORE COUNTY --- 0.7 N POPLAR [39.36, -76.45], 0.8 SW WHITE MARSH [39.37, -76.44], 0.9 WSW WHITE MARSH [39.38, -76.45], 0.8 NW POPLAR [39.36, -76.46]

	09/30/10 12:30 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 16:15 EST		0	Source: Trained Spotter

Route 7 was closed just west of Campbell Blvd. A rain gage in the region measured 10.17" of rain.

BALTIMORE COUNTY --- 1.3 ENE POPLAR [39.36, -76.43], 0.7 S WHITE MARSH [39.37, -76.43], 0.6 SW WHITE MARSH [39.37, -76.44], 0.9 N POPLAR [39.36, -76.45]

	09/30/10 12:30 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 16:15 EST		0	Source: Trained Spotter

Spotter observed 10300 block of Route 40 closed due to flash flooding. Rain gage in the area measured 9.52 inches of rain.

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FREDERICK COUNTY --- 0.9 NE UTICA [39.54, -77.39], 0.9 NNE UTICA [39.54, -77.39], 1.1 NE UTICA [39.54, -77.39], 1.0 NE UTICA [39.54, -77.39]	09/30/10 12:45 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 16:15 EST		0	Source: State Official
Intersection of Bottomly Road and Wilhide Road was closed due to flash flooding. A rain gage in the area measured 4.34 inches.				
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FREDERICK COUNTY --- 1.7 WNW SAMS CREEK [39.51, -77.13], 1.5 NW SAMS CREEK [39.51, -77.12], 1.4 WNW SAMS CREEK [39.51, -77.12], 1.8 W SAMS CREEK [39.50, -77.13], 1.8 WNW SAMS CREEK [39.51, -77.13]	09/30/10 12:45 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 15:15 EST		0	Source: State Official
Maryland Route 31 was closed at the bridge over Sams Creek, which was overflowing its banks. A rain gage in the area observed 4.60 inches of rain.				
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HOWARD COUNTY --- 0.9 NW HANOVER [39.19, -76.74], 0.9 ESE ELK RIDGE [39.21, -76.70], 1.1 ESE ELK RIDGE [39.21, -76.70], 0.2 WSW HANOVER [39.18, -76.73]	09/30/10 15:00 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 17:15 EST		0	Source: State Official
Flash Flooding was reported in the vicinity of Race Road, Furnance Road, and Park Center Drive. A rainfall report of 6.18 inches was received from the area.				
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ST. MARY'S COUNTY --- 0.7 N GREAT MILLS [38.24, -76.50], 0.5 NE GREAT MILLS [38.24, -76.49], 0.5 N GREAT MILLS [38.24, -76.50], 0.6 N GREAT MILLS [38.24, -76.50]	09/30/10 15:00 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 15:30 EST		0	Source: State Official
Route 5 was closed in Great Mills. A rain gage in the area measured 12.97 inches.				
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ST. MARY'S COUNTY --- 0.7 N GREAT MILLS [38.24, -76.50], 1.8 NNW CALLAWAY [38.26, -76.53], 2.7 S LNRDTWN ST MARYS ARP [38.28, -76.55], 2.4 SSW CALIFORNIA [38.27, -76.51]	09/30/10 15:00 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 15:30 EST		0	Source: State Official
Indian Bridge Road was closed. An AWOS site in the area observed a storm total of 12.87 inches.				
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ST. MARY'S COUNTY --- 0.7 N ST INIGOES [38.16, -76.40], 0.8 NNE ST INIGOES [38.16, -76.40], 0.9 N ST INIGOES [38.16, -76.40], 0.9 N ST INIGOES [38.16, -76.40]	09/30/10 15:00 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 15:30 EST		0	Source: State Official
Route 5 was closed at Villa Road. A rain gage in the area observed 14.07 inches.				
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ST. MARY'S COUNTY --- 0.9 NW REDGATE [38.28, -76.61], 0.5 WNW REDGATE [38.27, -76.61], 0.8 WNW REDGATE [38.27, -76.61], 0.9 WNW REDGATE [38.28, -76.61]	09/30/10 15:00 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 15:30 EST		0	Source: State Official
Intersection of Route 5 and Route 244 closed. An observer in the area reported 12.21 inches of rain.				
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ST. MARY'S COUNTY --- 0.9 SE GREAT MILLS [38.22, -76.49], 0.9 SE GREAT MILLS [38.22, -76.49], 0.8 SE GREAT MILLS [38.22, -76.49], 0.8 SE GREAT MILLS [38.22, -76.49]	09/30/10 15:00 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 15:30 EST		0	Source: State Official
Flat Iron Road was closed. An AWOS site measured 13.01" of storm total rainfall.				
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ST. MARY'S COUNTY --- 0.9 SW PARK HALL ARPT [38.22, -76.46], 0.5 SSW PARK HALL ARPT [38.22, -76.45], 0.4 SW PARK HALL ARPT [38.23, -76.45], 0.8 WSW PARK HALL ARPT [38.23, -76.47], 0.9 WSW PARK HALL ARPT [38.22, -76.46]	09/30/10 15:00 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 15:30 EST		0	Source: State Official
Route 5 was closed at Willows Road. A rainfall report of 13.80 was received from the area.				

Storm Data and Unusual Weather Phenomena - September 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
CALVERT COUNTY --- 0.9 NW APPEAL [38.38, -76.46], 0.4 N APPEAL [38.38, -76.45], 0.6 WNW APPEAL [38.37, -76.46], 0.9 NW APPEAL [38.38, -76.46]				
	09/30/10 16:00 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 20:15 EST		0	Source: State Official
Mill Bridge Road was closed due to water flowing over the bridge. A cooperative observer measured 13.48 inches of rain in the region.				
BALTIMORE COUNTY --- 0.1 W STEMMERS RUN [39.33, -76.47], 0.0 W STEMMERS RUN [39.33, -76.47], 0.1 NNW STEMMERS RUN [39.33, -76.47], 0.1 NW STEMMERS RUN [39.33, -76.47]				
	09/30/10 17:00 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 18:15 EST		0	Source: State Official
Orems Road was closed at Sunnyside Lane. Rainfall reported in the region included a 7.68" total near the event.				
BALTIMORE COUNTY --- 0.1 WNW STEMMERS RUN [39.33, -76.47], 0.2 NW STEMMERS RUN [39.33, -76.47], 0.2 WNW STEMMERS RUN [39.33, -76.47], 0.1 W STEMMERS RUN [39.33, -76.47]				
	09/30/10 17:00 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 18:15 EST		0	Source: State Official
The intersection of Glider Drive and Rossville Blvd. was closed. A rain gage in the area measured 7.90 inches of rainfall.				
BALTIMORE COUNTY --- 0.5 E ESSEX [39.32, -76.47], 0.4 S STEMMERS RUN [39.32, -76.47], 0.4 NE ESSEX [39.32, -76.47], 0.3 ENE ESSEX [39.32, -76.47]				
	09/30/10 17:00 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 18:15 EST		0	Source: State Official
Mace Avenue was closed due to flash flooding at the Southeast Freeway. A mesonet site in the area observed 8.60 inches of rain.				
ANNE ARUNDEL COUNTY --- 1.1 S RIVERA BEACH [39.15, -76.52], 1.1 S RIVERA BEACH [39.15, -76.52], 1.0 S RIVERA BEACH [39.16, -76.52], 1.1 S RIVERA BEACH [39.15, -76.52]				
	09/30/10 18:56 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 21:15 EST		0	Source: Trained Spotter
Geneva Road was closed at Fort Smallwood Road. A rain gage in the area measured 11.52 inches of rain.				
MONTGOMERY COUNTY --- 0.9 SW GEORGETOWN JCT [38.99, -77.06], 0.5 NNW ROCK CREEK FOREST [38.99, -77.05], 0.5 NW ROCK CREEK FOREST [38.98, -77.06], 0.7 WNW ROCK CREEK FOREST [38.98, -77.06], 1.0 WNW ROCK CREEK FOREST [38.99, -77.06], 0.9 WSW GEORGETOWN JCT [38.99, -77.06]				
	09/30/10 19:00 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 22:15 EST		0	Source: State Official
Rock Creek was out of its banks and flooding portions of Beach Drive. A rainfall report was received from the area of 5.43".				
CALVERT COUNTY --- 1.5 SSE STOAKLEY [38.55, -76.59], 1.3 NW PRINCE FREDERICK [38.54, -76.57], 1.7 W PRINCE FREDERICK [38.53, -76.58], 1.6 ENE BARSTOW [38.54, -76.59]				
	09/30/10 21:17 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 23:30 EST		0	Source: Fire Department/Rescue
Flash flooding was reported at Prince Frederick. A rain gage in Prince Frederick totaled 9.48 inches.				
FREDERICK COUNTY --- 0.7 N FREDERICK [39.43, -77.42], 0.3 N CERESVILLE [39.45, -77.37], 0.9 N REELS MILL [39.38, -77.38], 0.5 ESE FEAGAVILLE [39.38, -77.47]				
	09/30/10 21:30 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 23:30 EST		0	Source: Fire Department/Rescue
Flash flooding was reported at various locations across the county. Rain gage reports from the area included one on 4.02".				
BALTIMORE COUNTY --- 1.8 ENE BALTIMORE HIGHLANDS [39.24, -76.62], 2.0 ENE BALTIMORE HIGHLANDS [39.24, -76.62], 1.4 NE BALTIMORE HIGHLANDS [39.24, -76.63], 1.3 NE BALTIMORE HIGHLANDS [39.24, -76.63], 1.5 ENE BALTIMORE HIGHLANDS [39.24, -76.63]				
	09/30/10 21:59 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 23:15 EST		0	Source: Fire Department/Rescue

Storm Data and Unusual Weather Phenomena - September 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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West Patapsco Road was closed due to flash flooding. Rain gages in the area measured as much as 8.06".

HOWARD COUNTY --- 2.3 NW DORSEY [39.20, -76.78], 2.1 N WATERLOO [39.20, -76.78], 1.9 N WATERLOO [39.20, -76.78], 1.8 N WATERLOO [39.20, -76.78]

	09/30/10 22:15 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 23:15 EST		0	Source: Law Enforcement

Meadowridge Drive was closed. A rainfall report of 4.70 was observed near the area.

ANNE ARUNDEL COUNTY --- 1.0 ESE GREEN HAVEN [39.12, -76.53], 0.9 NNW JACOBSTOWN [39.13, -76.52], 1.1 NNE GREEN HAVEN [39.14, -76.54], 0.5 WSW GREEN HAVEN [39.13, -76.56]

	09/30/10 23:00 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 23:59 EST		0	Source: Law Enforcement

Numerous basements were flooded in the area. A rainfall total from the area was reported at 9.90 inches.

A corridor of moisture funnelled up the eastern seaboard. Bands of heavy rain began to rapidly move into Maryland just after midnight on Thursday morning, September 30. After the initial low pressure passed north of the area late Thursday morning after producing up to 8 inches of rain across portions of Maryland and numerous reports of flash flooding, a brief lull in precipitation occurred Thursday afternoon, before the remnant circulation of former Tropical Storm Nicole moved up the Delmarva Peninsula, reinvigorating heavy rainfall. Storm total rainfall exceeded one foot across many areas along the shore of the Chesapeake Bay, with reported measurements of over 14 inches in several locations in St. Mary's County, MD. Hundreds of roads were closed due to high water across the area, and high water rescues and roadway washouts were frequent. There no reported injuries or deaths. At Baltimore-Washington International, the rainfall amount of 6.02" on September 30 was the 2nd highest daily total ever recorded, with only August 23, 1933 receiving a higher amount in a single calendar day. Events associated with this episode continued into October 1.

ST. MARY'S COUNTY --- 1.8 SE ST JAMES [38.18, -76.38], 0.8 E ST JAMES [38.20, -76.38]

	09/30/10 05:16 EST		8K	Thunderstorm Wind (EG 61 kt)
	09/30/10 05:17 EST		0	Source: Trained Spotter

Numerous trees down along and to the east of Route 235.

ANNE ARUNDEL COUNTY --- 1.6 E LAKE SHR [39.10, -76.45], 1.1 WSW PINEHURST [39.11, -76.45]

	09/30/10 08:46 EST		15K	Tornado (EF0, L: 0.93 mi , W: 200 yd)
	09/30/10 08:49 EST		0	Source: NWS Storm Survey

Damage consisted of uprooted and snapped trees, most along Milburn Circle. One tree fell on a vehicle; another crushed a shed. There was also minor siding and shingle damage.

A surface low pressure system moved northward up the eastern seaboard along a north-to-south oriented stationary front. Very moist low level atmosphere and 70 knot southeasterly winds combined with modest instability to produce damaging winds in the strongest thunderstorms that developed. An isolated tornado also touched down in Anne Arundel County.

(MD-Z017) ST. MARY'S

	09/30/10 10:14 EST		5K	High Wind (MAX 52 kt)
	09/30/10 10:14 EST		0	

A very strong low level jet stream allowed strong winds to mix down to the surface in the morning, causing damage in St. Mary's County.

(MD-Z007) HARFORD, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z014) ANNE ARUNDEL, (MD-Z016) CHARLES

	09/30/10 13:00 EST		0	Coastal Flood
	09/30/10 23:59 EST		0	

Low pressure and strong southerly winds allowed water to pool in the Chesapeake Bay and be pushed onshore. Water was also pushed upstream the tidal Potomac River. Coastal flooding was observed along the lower tidal Potomac River and across the Chesapeake Bay.

VIRGINIA, North

FREDERICK COUNTY --- 0.5 E GAINESBORO [39.28, -78.26]

Storm Data and Unusual Weather Phenomena - September 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	09/16/10 22:24 EST		2K	Thunderstorm Wind (EG 52 kt)
	09/16/10 22:24 EST		0	Source: Fire Department/Rescue

A tree fell onto a telephone line in Gainesboro.

CLARKE COUNTY --- 0.9 NW BERRYVILLE [39.16, -77.98]

	09/16/10 22:48 EST		1K	Thunderstorm Wind (EG 50 kt)
	09/16/10 22:48 EST		0	Source: Fire Department/Rescue

Limbs were down through Berryville.

A low pressure tracked eastward through the Great Lakes and into New York. An unstable and favorably sheared atmosphere west of the Appalachian mountains supported thunderstorm development during the afternoon. These thunderstorms weakened as they crossed the mountains into extreme northern Virginia, but still managed to produce isolated wind damage in Clarke and Frederick counties.

PAGE COUNTY --- 3.0 NW NEWPORT [38.61, -78.64]

	09/22/10 13:14 EST		0	Hail (1.00 in)
	09/22/10 13:14 EST		0	Source: Public

Quarter-sized hail was observed northwest of Newport.

PAGE COUNTY --- 3.0 NW NEWPORT [38.61, -78.64]

	09/22/10 13:14 EST		4K	Thunderstorm Wind (EG 56 kt)
	09/22/10 13:14 EST		0	Source: Public

Nickel to quarter size hail was accompanied by very strong winds. Several Branches were down and wind blow hail damaged vehicles 3 miles northwest of Newport.

LOUDOUN COUNTY --- 1.3 WNW LINCOLN [39.13, -77.70]

	09/22/10 13:50 EST		0	Hail (1.00 in)
	09/22/10 13:50 EST		0	Source: Trained Spotter

Hail up to the size of quarters was observed 1 mile southeast of Purcellville.

LOUDOUN COUNTY --- LEESBURG MUNI [39.08, -77.55]

	09/22/10 14:23 EST		0	Hail (1.00 in)
	09/22/10 14:24 EST		0	Source: Emergency Manager

Hail up to the size of quarters was reported 2 miles south-southeast of Leesburg.

NELSON COUNTY --- 4.6 WNW MARTINS STORE [37.92, -78.95]

	09/22/10 15:09 EST		0	Thunderstorm Wind (MG 51 kt)
	09/22/10 15:09 EST		0	Source: Mesonet

Wind gust of 59 mph measured at Wintergreen Mountain.

NELSON COUNTY --- 1.1 W NELLYSFORD [37.88, -78.90]

	09/22/10 15:27 EST		0	Hail (1.50 in)
	09/22/10 15:27 EST		0	Source: Law Enforcement

Hail of diameter 1.5" was reported in Wintergreen.

GREENE COUNTY --- RUCKERSVILLE [38.23, -78.37]

	09/22/10 15:58 EST		5K	Thunderstorm Wind (EG 61 kt)
	09/22/10 15:58 EST		0	Source: State Official

A tree fell into a house in Ruckersville.

ORANGE COUNTY --- 1.8 NW EHEART [38.22, -78.34]

	09/22/10 16:09 EST		0	Thunderstorm Wind (EG 52 kt)
	09/22/10 16:09 EST		0	Source: Public

Storm Data and Unusual Weather Phenomena - September 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A wind gust was estimated to have reached 60 mph 1 mile northwest of Eheart.				
ORANGE COUNTY --- 0.9 SE EHEART [38.19, -78.31]				
	09/22/10 16:10 EST		2K	Thunderstorm Wind (EG 61 kt)
	09/22/10 16:10 EST		0	Source: Public
Trees were down on Route 33 a few miles northwest of Barboursville.				
ORANGE COUNTY --- 2.6 WSW EHEART [38.18, -78.36]				
	09/22/10 16:13 EST		5K	Thunderstorm Wind (EG 65 kt)
	09/22/10 16:13 EST		0	Source: Public
Widespread trees and limbs down from thunderstorm winds southwest of Eheart. Power was out in the area.				
An upper level disturbance and cold front moved out of the Ohio Valley into a very warm and relatively moist atmosphere in the Mid-Atlantic. Thunderstorms developed along this front as well as a lee trough during the afternoon. Instability, steep lapse rates, and moderate shear aided in some thunderstorms becoming severe, producing large hail and damaging winds during the afternoon and evening.				
SPOTSYLVANIA COUNTY --- 1.3 ENE NEW POST [38.24, -77.38], 3.7 ENE NEW POST [38.24, -77.33], 5.2 E NEW POST [38.23, -77.30], 4.5 E NEW POST [38.22, -77.32]				
	09/30/10 04:52 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 09:15 EST		0	Source: State Official
Water was over Route 17. A rainfall report was received near the area of 5.56 inches.				
FAIRFAX COUNTY --- 0.5 W TREMONT [38.85, -77.23], 0.8 WSW TREMONT [38.85, -77.23], 0.9 W TREMONT [38.85, -77.24], 0.8 W TREMONT [38.85, -77.23]				
	09/30/10 05:30 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 09:15 EST		0	Source: Broadcast Media
Woodburn Road was closed between Robey Avenue and Guinevere Drive. A rainfall total of 5.65 inches was measured near the area.				
FAIRFAX COUNTY --- 0.7 N BURKE [38.81, -77.27], 0.8 NNE BURKE [38.81, -77.26], 0.9 NNE BURKE [38.81, -77.26], 0.9 N BURKE [38.81, -77.27]				
	09/30/10 05:30 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 09:15 EST		0	Source: Broadcast Media
Guinea Road at Braddock Road closed due to flooding. A rainfall total of 5.89" was received from near the area.				
FAIRFAX COUNTY --- 0.5 E VIENNA [38.90, -77.26], 0.6 ESE FRANKLIN PARK [38.92, -77.14], 0.2 N SWINKS MILL [38.95, -77.20], 2.2 NE HERNDON [38.99, -77.35], 0.5 SSE HERNDON [38.96, -77.38]				
	09/30/10 08:30 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 09:15 EST		0	Source: Broadcast Media
Numerous road closures were reported in Reston, McLean, and Vienna. Rain gages in the area measured as much as 4.95 inches.				
FAIRFAX COUNTY --- 1.5 SSW CHANTILLY [38.88, -77.44], 1.3 SSW CHANTILLY [38.88, -77.44], 1.2 SSW CHANTILLY [38.88, -77.44], 1.6 SSW CHANTILLY [38.88, -77.44]				
	09/30/10 09:30 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 15:30 EST		0	Source: Broadcast Media
The intersection of Westfields Blvd. and Walney Road was closed due to high water. A rain gage in the area measured 5.38 inches.				
FAIRFAX COUNTY --- 0.5 E MERRIFIELD [38.87, -77.22], 1.1 E MERRIFIELD [38.87, -77.21], 1.0 NNE TREMONT [38.86, -77.21], 0.5 SSE MERRIFIELD [38.86, -77.23], 0.4 ESE MERRIFIELD [38.87, -77.22]				
	09/30/10 10:00 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 14:15 EST		0	Source: Department of Highways
The Interstate 495 Exit ramp onto Route 50 was closed due to high water. A rain gage near the event measured 4.83 inches of rain.				
FAIRFAX COUNTY --- 0.7 N BREN MAR PARK [38.79, -77.17], 0.5 SSW WEYANOKE [38.79, -77.17], 0.4 S MONTICELLO WOODS [38.79, -77.18], 0.7 SSE MONTICELLO WOODS [38.79, -77.18]				

Storm Data and Unusual Weather Phenomena - September 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	09/30/10 10:00 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 14:15 EST		0	Source: Department of Highways

The exit ramp from Interstate 495 southbound onto Interstate 395 was closed. A rain gage in the area measured a storm total of 4.43 inches.

FAIRFAX COUNTY --- 0.8 NE ENOLA [38.91, -77.22], 0.9 NE ENOLA [38.91, -77.22], 1.1 NW CHESTERBROOK GARDENS [38.91, -77.21], 0.8 ESE TYSONS CORNER [38.91, -77.22], 0.7 SE TYSONS CORNER [38.91, -77.22]

	09/30/10 10:00 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 16:00 EST		0	Source: Department of Highways

Route 7 ramp onto northbound Interstate 495 was flooded. A rainfall total of 4.71 was observed near the area.

FAIRFAX COUNTY --- 1.0 WSW TREMONT [38.85, -77.24], 0.8 WSW TREMONT [38.85, -77.23], 0.9 W TREMONT [38.85, -77.24], 1.1 WSW TREMONT [38.85, -77.24]

	09/30/10 10:00 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 16:00 EST		0	Source: Department of Highways

Woodburn Road closed between Spicewood Drive and Robey Avenue. A rainfall measurement of 5.10 inches was reported from near the event.

FAIRFAX COUNTY --- 1.5 SSE VIENNA [38.88, -77.26], 1.0 W DUNN LORING [38.88, -77.25], 1.2 W DUNN LORING [38.88, -77.25], 1.4 W DUNN LORING [38.88, -77.26]

	09/30/10 10:00 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 14:15 EST		0	Source: Department of Highways

Interstate 66 partially closed around mile marker 62. A rain gage in the area observed 4.80 inches of rain.

FAIRFAX COUNTY --- 2.1 NNW VALE [38.91, -77.36], 2.2 NNW VALE [38.91, -77.36], 2.5 NNW VALE [38.91, -77.37], 2.5 NNW VALE [38.91, -77.36]

	09/30/10 10:00 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 14:15 EST		0	Source: Department of Highways

Fox Mill Road was closed between Loveless Lane and Thoroughbred Road. A rainfall amount of 4.72" was measured from near the area.

STAFFORD COUNTY --- 0.7 S ROSEVILLE [38.46, -77.52], 1.0 S ROSEVILLE [38.46, -77.52], 0.9 SSW ROSEVILLE [38.46, -77.52], 0.8 SSW ROSEVILLE [38.46, -77.52]

	09/30/10 10:00 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 14:15 EST		0	Source: State Official

Ruffian Drive was closed in the vicinity of Riva Ridge Drive due to flash flooding.

STAFFORD COUNTY --- 1.3 ENE FALMOUTH [38.33, -77.45], 1.2 NW FERRY FARMS [38.33, -77.45], 1.2 WNW FERRY FARMS [38.33, -77.45], 1.1 ENE FALMOUTH [38.33, -77.45]

	09/30/10 10:00 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 14:15 EST		0	Source: State Official

Harrell Road was closed due to flash flooding. A rainfall amount of 4.52" was observed near the area.

ALBEMARLE COUNTY --- 1.3 WSW MIDWAY [38.02, -78.72], 1.2 SW MIDWAY [38.02, -78.72], 1.3 NNE BATESVILLE [38.02, -78.72], 1.2 NNE BATESVILLE [38.02, -78.72]

	09/30/10 12:00 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 13:00 EST		0	Source: Department of Highways

Route 689 is closed due to flooding. A rainfall report of 4.69" was received from near the event.

CULPEPER COUNTY --- 1.0 WSW WHITE SHOP [38.43, -78.09], 1.4 W WHITE SHOP [38.43, -78.09], 2.6 SW WHITE SHOP [38.41, -78.11], 2.4 SW WHITE SHOP [38.41, -78.10]

	09/30/10 13:00 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 15:15 EST		0	Source: Department of Highways

VA Route 657 was closed. A rainfall report from the area was 3.27 inches.

NELSON COUNTY --- 1.6 E GREENFIELD [37.93, -78.82], 0.9 ESE GREENFIELD [37.93, -78.83], 0.8 ENE GREENFIELD [37.93, -78.84], 1.7 ENE GREENFIELD [37.94, -78.82]

Storm Data and Unusual Weather Phenomena - September 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	09/30/10 13:00 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 13:15 EST		0	Source: State Official

Route 635 was closed due to flash flooding. A mesonet site nearby recorded 5.28 inches of rain.

NELSON COUNTY --- 1.6 E TYE RIVER [37.65, -78.94], 1.3 ENE TYE RIVER [37.66, -78.95], 1.6 SSW ARRINGTON [37.66, -78.93], 2.0 SSE ARRINGTON [37.65, -78.91], 2.4 S ARRINGTON [37.65, -78.92]

09/30/10 13:00 EST	0	Flash Flood (due to Heavy Rain)
09/30/10 13:15 EST	0	Source: Department of Highways

Route 662 was closed due to flash flooding. A mesonet site in the region observed 5.64" of rain.

STAFFORD COUNTY --- 0.5 NNW MT JOY STORE [38.49, -77.38], 0.3 NW MT JOY STORE [38.48, -77.38], 0.5 WNW MT JOY STORE [38.48, -77.39], 0.6 NNW MT JOY STORE [38.49, -77.39]

09/30/10 14:10 EST	0	Flash Flood (due to Heavy Rain)
09/30/10 15:15 EST	0	Source: State Official

Route 1 was closed at Acadia Street due to flash flooding. A nearby cooperative observer reported 5.25" as storm rainfall total.

STAFFORD COUNTY --- 0.6 WSW MT JOY STORE [38.48, -77.39], 1.0 SW MT JOY STORE [38.47, -77.39], 1.0 WSW MT JOY STORE [38.48, -77.40], 0.6 WNW MT JOY STORE [38.48, -77.39]

09/30/10 14:10 EST	0	Flash Flood (due to Heavy Rain)
09/30/10 15:15 EST	0	Source: State Official

Flash flooding was reported on Jefferson Davis Highway at Telegraph Road. A rainfall report of 4.46 was received from the area.

STAFFORD COUNTY --- 0.7 N MT JOY STORE [38.49, -77.38], 0.6 SW MIDWAY IS [38.49, -77.38], 0.7 WSW MIDWAY IS [38.50, -77.38], 0.8 NNW MT JOY STORE [38.49, -77.38]

09/30/10 14:10 EST	0	Flash Flood (due to Heavy Rain)
09/30/10 15:15 EST	0	Source: State Official

Flash flooding was reported on the 3500 block of Jefferson Davis Highway. A rainfall report of 5.20" was received nearby.

FAIRFAX COUNTY --- 0.2 NNE WAYNEWOOD [38.72, -77.05], 0.3 ENE WAYNEWOOD [38.72, -77.05], 0.3 NE WAYNEWOOD [38.72, -77.04], 0.3 NNE WAYNEWOOD [38.72, -77.05]

09/30/10 15:00 EST	0	Flash Flood (due to Heavy Rain)
09/30/10 15:30 EST	0	Source: Emergency Manager

Intersection closed at Wayneswood Blvd and Dewolf. A rain gage measured 4.66 inches of rainfall from near the area.

FAIRFAX COUNTY --- 0.7 N ACCOTINK [38.71, -77.18], 0.7 NNE ACCOTINK [38.71, -77.18], 0.5 NNE ACCOTINK [38.71, -77.18], 0.5 N ACCOTINK [38.71, -77.18]

09/30/10 15:00 EST	0	Flash Flood (due to Heavy Rain)
09/30/10 15:30 EST	0	Source: Emergency Manager

Intersection of Route 1 and Britten Drive closed due to flash flooding. A rain gage in the area observed 4.48 inches.

FAIRFAX COUNTY --- 1.5 NNE VIENNA [38.92, -77.26], 1.6 WSW MC LEAN HAMLET [38.93, -77.26], 1.4 S KENMORE [38.93, -77.27], 1.5 S KENMORE [38.93, -77.27]

09/30/10 15:00 EST	0	Flash Flood (due to Heavy Rain)
09/30/10 15:30 EST	0	Source: Emergency Manager

Portion of Old Courthouse Road closed due to flash flooding. A total of 5.96" of rain was reported near the event.

PRINCE WILLIAM COUNTY --- 1.1 E CATHARPIN [38.85, -77.55], 1.5 E CATHARPIN [38.85, -77.54], 1.4 E CATHARPIN [38.85, -77.54], 1.3 ESE CATHARPIN [38.85, -77.55]

09/30/10 15:08 EST	0	Flash Flood (due to Heavy Rain)
09/30/10 15:30 EST	0	Source: State Official

Gum Springs Road was closed due to flash flooding. A rainfall amount of 6.80 inches was measured near the area.

Storm Data and Unusual Weather Phenomena - September 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
CULPEPER COUNTY --- 0.5 W MONUMENT MILLS [38.60, -78.01], 0.5 NW MONUMENT MILLS [38.61, -78.01], 0.8 NNE MONUMENT MILLS [38.61, -77.99], 0.2 SSW MONUMENT MILLS [38.60, -78.00]				
	09/30/10 20:00 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 23:59 EST		0	Source: Department of Highways
Route 628 was closed due to flash flooding. Rainfall in the area was measured at 6.03 inches.				
STAFFORD COUNTY --- 1.3 ESE FALMOUTH [38.31, -77.45], 1.6 SSW FERRY FARMS [38.30, -77.45], 0.9 WSW FERRY FARMS [38.31, -77.44], 1.1 ESE FALMOUTH [38.31, -77.45]				
	09/30/10 20:00 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 23:15 EST		0	Source: Department of Highways
County Road 607 was closed due to flash flooding. A rainfall total of 6.44" was observed nearby.				
FAIRFAX COUNTY --- 0.5 W KENMORE [38.95, -77.28], 0.8 E CROWELLS CORNER [38.95, -77.28], 0.7 E CROWELLS CORNER [38.95, -77.29], 0.8 WNW KENMORE [38.95, -77.28]				
	09/30/10 21:38 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 23:15 EST		0	Source: Fire Department/Rescue
Flash flooding was reported at the intersection of Browns Mill Road and Beulah Road. A rain gage nearby observed 5.04" of rainfall.				
CULPEPER COUNTY --- 0.9 NW INLET [38.49, -77.94], 0.7 NW INLET [38.49, -77.94], 0.9 WNW INLET [38.49, -77.94], 1.0 NW INLET [38.49, -77.94]				
	09/30/10 23:00 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 23:59 EST		0	Source: Law Enforcement
The underpass at Route 29 and Inlet Road was closed due to flash flooding. A rain gage in the area measured 4.60 inches.				
SPOTSYLVANIA COUNTY --- 0.5 SW DUNAVANT [38.37, -77.68], 0.9 S DUNAVANT [38.36, -77.67], 1.4 SW DUNAVANT [38.35, -77.69], 1.2 WSW DUNAVANT [38.36, -77.69]				
	09/30/10 23:00 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 23:59 EST		0	Source: Emergency Manager
Elys Ford Road closed due to flash flooding on Rapidan River. A rain gage in the area measured 5.09".				
STAFFORD COUNTY --- 0.3 NNW FALMOUTH [38.32, -77.47], 0.2 N FALMOUTH [38.32, -77.47], 0.2 N FALMOUTH [38.32, -77.47], 0.3 NNW FALMOUTH [38.32, -77.47]				
	09/30/10 23:00 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 23:45 EST		0	Source: Law Enforcement
Ingleside Drive at Washington Street was closed due to flash flooding. A rain gage nearby measured 5.42 inches.				
STAFFORD COUNTY --- 1.3 SE FALMOUTH [38.31, -77.45], 1.2 SE FALMOUTH [38.31, -77.46], 0.1 SE FALMOUTH [38.32, -77.47], 0.3 ENE FALMOUTH [38.32, -77.46]				
	09/30/10 23:00 EST		0	Flash Flood (due to Heavy Rain)
	09/30/10 23:45 EST		0	Source: Law Enforcement
Portions of River Road were closed due to flash flooding. A nearby rain gage measured 5.31".				
<p>A corridor of tropical moisture travelled up the Atlantic seaboard, funnelling another area of low pressure that developed along the Carolina coastline through the Mid-Atlantic. Bands of heavy rain began to rapidly move into northern Virginia just after midnight on Thursday morning, September 30. After the initial low pressure passed north of the area late Thursday morning after producing up to 5 inches of rain and numerous reports of flash flooding across portions of northern Virginia, a brief lull in precipitation occurred Thursday afternoon, before the remnant circulation of once Tropical Storm Nicole moved up the Delmarva Peninsula, reinvigorating heavy rainfall. Storm total rainfall exceeded 8 inches across many areas. Hundreds of roads were closed due to high water across the area, and high water rescues and roadway washouts were frequent. There were no reported injuries or deaths. From a historical perspective, Washington Reagan National Airport's 4.66" and Washington Dulles International Airports' 4.74" on Sep 30 were both the third highest daily rainfall amounts ever recorded in the month of September. Events associated with this episode continued into October 1.</p>				
FAUQUIER COUNTY --- 1.8 SW PINE VIEW [38.43, -77.70]				
	09/30/10 14:47 EST		1K	Thunderstorm Wind (EG 52 kt)
	09/30/10 14:47 EST		0	Source: Public
Branches were down south-southwest of Pine View.				

Storm Data and Unusual Weather Phenomena - September 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A surface low pressure system moved northward up the eastern seaboard along a north-to-south oriented stationary front. Very moist low level atmosphere and 70 knot southeasterly winds combined with modest instability to produce isolated damaging winds in thunderstorms that developed in Fauquier County during the afternoon.

WEST VIRGINIA, East

HAMPSHIRE COUNTY --- 0.5 W HANGING ROCK [39.27, -78.56]

09/16/10 22:06 EST	1K	Thunderstorm Wind (EG 52 kt)
09/16/10 22:06 EST	0	Source: State Official

A tree was down on A.A. Rodgers Road east of Augusta.

A low pressure tracked eastward through the Great Lakes and into New York. An unstable and favorably sheared atmosphere west of the Appalachian mountains supported thunderstorm development during the afternoon. These thunderstorms weakened as they crossed the mountains into eastern West Virginia, but still managed to produce isolated wind damage in Hampshire County.