

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|--|--------------------|-------------------|---------------------|-------------------------------------|
| ATLANTIC NORTH | | | | |
| TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 17.9 WNW PINEY POINT [38.24, -76.83] | | | | |
| | 04/02/11 12:25 EST | | 0 | Marine Thunderstorm Wind (MG 42 kt) |
| | 04/02/11 12:30 EST | | 0 | Source: Mesonet |
| Wind gusts up to 42 knots were reported at Cobb Island. | | | | |
| PATUXENT RIVER TO BROOMES ISLAND MD COUNTY --- 0.2 SSW CHESAPEAKE BIOLOGICAL LABORATORY [38.32, -76.45] | | | | |
| | 04/02/11 12:48 EST | | 0 | Marine Thunderstorm Wind (MG 34 kt) |
| | 04/02/11 12:48 EST | | 0 | Source: Buoy |
| A wind gust of 34 knots was reported at Solomons Island. | | | | |
| TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- PINEY POINT [38.13, -76.53] | | | | |
| | 04/02/11 12:54 EST | | 0 | Marine Thunderstorm Wind (MG 40 kt) |
| | 04/02/11 13:00 EST | | 0 | Source: Buoy |
| Wind gusts up to 40 knots were reported at Piney Point. | | | | |
| TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 0.4 SE LEWISSETTA [37.99, -76.47] | | | | |
| | 04/02/11 13:00 EST | | 0 | Marine Thunderstorm Wind (MG 42 kt) |
| | 04/02/11 13:06 EST | | 0 | Source: Buoy |
| Wind gusts up to 42 knots were reported at Lewisetta. | | | | |
| TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 0.2 WNW POINT LOOKOUT [38.04, -76.32] | | | | |
| | 04/02/11 13:25 EST | | 0 | Marine Thunderstorm Wind (MG 34 kt) |
| | 04/02/11 13:30 EST | | 0 | Source: Mesonet |
| Wind gusts up to 34 knots were measured at Point Lookout. | | | | |
| CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- 0.4 SSW SMITH ISLAND [37.98, -76.04] | | | | |
| | 04/02/11 13:47 EST | | 0 | Marine Thunderstorm Wind (MG 35 kt) |
| | 04/02/11 13:47 EST | | 0 | Source: Mesonet |
| A wind gust of 35 knots was reported at Smith Island. | | | | |
| TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- WASHINGTON NATIONALS PARK [38.87, -77.01] | | | | |
| | 04/02/11 13:54 EST | | 0 | Marine Thunderstorm Wind (MG 37 kt) |
| | 04/02/11 13:54 EST | | 0 | Source: Mesonet |
| A wind gust of 37 knots was measured at the Washington Nationals Park. | | | | |
| TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.3 SSE CRISFIELD [37.97, -75.88] | | | | |
| | 04/02/11 13:57 EST | | 0 | Marine Thunderstorm Wind (MG 34 kt) |
| | 04/02/11 13:57 EST | | 0 | Source: Mesonet |
| A wind gust of 34 knots was reported at Crisfield. | | | | |
| TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.1 ESE RACCOON POINT [38.14, -75.79] | | | | |
| | 04/02/11 13:58 EST | | 0 | Marine Thunderstorm Wind (MG 34 kt) |
| | 04/02/11 13:58 EST | | 0 | Source: Mesonet |
| A wind gust of 34 knots was reported at Raccoon Point. | | | | |
| CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.2 SE GREENBERRY POINT [38.97, -76.46] | | | | |
| | 04/02/11 14:22 EST | | 0 | Marine Thunderstorm Wind (EG 34 kt) |
| | 04/02/11 14:22 EST | | 0 | Source: Mesonet |
| A wind gust in excess of 30 knots was reported at Greenberry Point. | | | | |

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| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|--|--------------------|----------------------|------------------------|-------------------------------------|
| TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- WASHINGTON NATIONALS PARK [38.87, -77.01] | | | | |
| | 04/02/11 14:24 EST | 0 | | Marine Thunderstorm Wind (MG 37 kt) |
| | 04/02/11 14:24 EST | 0 | | Source: Mesonet |
| A wind gust of 37 knots was measured at the Washington Nationals Park. | | | | |
| CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 12.7 SSW THOMAS POINT LIGHT [38.73, -76.54] | | | | |
| | 04/02/11 14:30 EST | 0 | | Marine Thunderstorm Wind (MG 38 kt) |
| | 04/02/11 14:30 EST | 0 | | Source: Mesonet |
| A wind gust of 38 knots was measured at Herring Bay. | | | | |
| TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 11.6 NNE QUANTICO [38.64, -77.20] | | | | |
| | 04/02/11 14:41 EST | 0 | | Marine Thunderstorm Wind (MG 36 kt) |
| | 04/02/11 14:41 EST | 0 | | Source: Mesonet |
| A wind gust of 36 knots was measured at Mason Neck. | | | | |
| CHOPTANK RIVER TO CAMBRIDGE MD AND THE LITTLE CHOPTANK RIVER COUNTY --- CAMBRIDGE [38.57, -76.07] | | | | |
| | 04/02/11 15:06 EST | 0 | | Marine Thunderstorm Wind (MG 38 kt) |
| | 04/02/11 15:06 EST | 0 | | Source: Buoy |
| A wind gust of 38 knots was reported at Cambridge. | | | | |
| TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.2 W POTOMAC LIGHT [38.34, -76.99] | | | | |
| | 04/02/11 15:20 EST | 0 | | Marine Thunderstorm Wind (EG 34 kt) |
| | 04/02/11 15:20 EST | 0 | | Source: Mesonet |
| A wind gust in excess of 30 knots was reported at the Potomac Lighthouse. | | | | |
| A mid-level trough of low pressure provided enough instability for scattered showers and thunderstorms on the 2nd. Showers and thunderstorms that developed were able to mix down gusty winds from aloft. | | | | |
| TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.4 NE QUANTICO [38.50, -77.31] | | | | |
| | 04/05/11 03:24 EST | 0 | | Marine Thunderstorm Wind (MG 52 kt) |
| | 04/05/11 03:24 EST | 0 | | Source: ASOS |
| A wind gust of 52 knots was measured at Quantico. | | | | |
| TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 0.7 E (DCA)REAGAN NATIONAL AIRPORT [38.85, -77.03] | | | | |
| | 04/05/11 03:35 EST | 0 | | Marine Thunderstorm Wind (MG 48 kt) |
| | 04/05/11 03:35 EST | 0 | | Source: ASOS |
| A wind gust of 48 knots was measured at Reagan National Airport. | | | | |
| TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.3 ESE ROUTE 301 BRIDGE [38.36, -77.02] | | | | |
| | 04/05/11 03:43 EST | 0 | | Marine Thunderstorm Wind (MG 50 kt) |
| | 04/05/11 03:43 EST | 0 | | Source: Mesonet |
| A wind gust of 50 knots was measured at the Route 301 Bridge. | | | | |
| TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.1 NNE MONROE CREEK [38.23, -76.95] | | | | |
| | 04/05/11 03:50 EST | 0 | | Marine Thunderstorm Wind (MG 51 kt) |
| | 04/05/11 03:50 EST | 0 | | Source: Mesonet |
| A wind gust of 51 knots was reported at Monroe Creek. | | | | |
| CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 12.7 SSW THOMAS POINT LIGHT [38.73, -76.54] | | | | |
| | 04/05/11 04:10 EST | 0 | | Marine Thunderstorm Wind (MG 57 kt) |
| | 04/05/11 04:10 EST | 0 | | Source: Mesonet |
| A wind gust of 57 knots was reported at Herring Bay. | | | | |

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|--|--------------------|----------------------|------------------------|-------------------------------------|
| TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 0.2 WNW POINT LOOKOUT [38.04, -76.32] | | | | |
| | 04/05/11 04:40 EST | 0 | | Marine Thunderstorm Wind (MG 50 kt) |
| | 04/05/11 04:45 EST | 0 | | Source: Mesonet |
| Wind gusts up to 50 knots were reported at Point Lookout. | | | | |
| TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 0.3 NE POTOMAC BUOY [38.03, -76.34] | | | | |
| | 04/05/11 04:40 EST | 0 | | Marine Thunderstorm Wind (MG 48 kt) |
| | 04/05/11 04:50 EST | 0 | | Source: Buoy |
| Wind gusts up to 48 knots were reported the Potomac Buoy. | | | | |
| CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- 0.4 SSW SMITH ISLAND [37.98, -76.04] | | | | |
| | 04/05/11 04:58 EST | 0 | | Marine Thunderstorm Wind (MG 52 kt) |
| | 04/05/11 05:09 EST | 0 | | Source: Mesonet |
| Wind gusts up to 52 knots were reported at Smith Island. | | | | |
| TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.1 NE BISHOPS HEAD [38.22, -76.04] | | | | |
| | 04/05/11 05:00 EST | 0 | | Marine Thunderstorm Wind (MG 60 kt) |
| | 04/05/11 05:00 EST | 0 | | Source: Mesonet |
| A wind gust of 60 knots was reported at Bishops Head. | | | | |
| TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.1 NE BISHOPS HEAD [38.22, -76.04] | | | | |
| | 04/05/11 05:06 EST | 0 | | Marine Thunderstorm Wind (MG 54 kt) |
| | 04/05/11 05:12 EST | 0 | | Source: Mesonet |
| Wind gusts up to 54 knots were reported at Bishops Head. | | | | |
| TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.1 ESE RACCOON POINT [38.14, -75.79] | | | | |
| | 04/05/11 05:20 EST | 0 | | Marine Thunderstorm Wind (MG 49 kt) |
| | 04/05/11 05:20 EST | 0 | | Source: Mesonet |
| A wind gust of 49 knots was reported at Raccoon Point. | | | | |
| TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 0.5 W WASHINGTON NATIONALS PARK [38.87, -77.02] | | | | |
| | 04/05/11 07:42 EST | 0 | | Marine Thunderstorm Wind (MG 34 kt) |
| | 04/05/11 07:42 EST | 0 | | Source: Mesonet |
| A wind gust of 34 knots was reported in Washington DC. | | | | |
| TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 11.6 NNE QUANTICO [38.64, -77.20] | | | | |
| | 04/05/11 07:48 EST | 0 | | Marine Thunderstorm Wind (MG 35 kt) |
| | 04/05/11 07:54 EST | 0 | | Source: Mesonet |
| Wind gusts up to 35 knots were reported at Mason Neck. | | | | |
| PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- 0.4 S BALTIMORE CITY [39.27, -76.59] | | | | |
| | 04/05/11 08:00 EST | 0 | | Marine Thunderstorm Wind (MG 39 kt) |
| | 04/05/11 08:25 EST | 0 | | Source: Mesonet |
| Wind gusts up to 39 knots were reported at Tide Point. | | | | |
| TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- WASHINGTON NATIONALS PARK [38.87, -77.01] | | | | |
| | 04/05/11 08:04 EST | 0 | | Marine Thunderstorm Wind (MG 44 kt) |
| | 04/05/11 08:04 EST | 0 | | Source: Mesonet |
| A wind gust of 44 knots was reported at Nationals Park. | | | | |
| PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- ORIOLE PARK AT CAMDEN YARDS [39.28, -76.62] | | | | |

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| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|----------|--------------------|-------------------|---------------------|-------------------------------------|
| | 04/05/11 08:13 EST | | 0 | Marine Thunderstorm Wind (MG 37 kt) |
| | 04/05/11 08:13 EST | | 0 | Source: Mesonet |

A wind gust of 37 knots was reported at Orioles Park.

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

| | | | | |
|--|--------------------|--|---|-------------------------------------|
| | 04/05/11 08:14 EST | | 0 | Marine Thunderstorm Wind (MG 38 kt) |
| | 04/05/11 08:29 EST | | 0 | Source: Mesonet |

Wind gusts between 37 and 38 knots were reported at Miller Island.

PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- 0.1 NW MARYLAND SCIENCE CENTER [39.28, -76.61]

| | | | | |
|--|--------------------|--|---|-------------------------------------|
| | 04/05/11 08:15 EST | | 0 | Marine Thunderstorm Wind (EG 34 kt) |
| | 04/05/11 08:34 EST | | 0 | Source: Mesonet |

Wind gusts in excess of 30 knots was reported at the Maryland Science Center.

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

| | | | | |
|--|--------------------|--|---|-------------------------------------|
| | 04/05/11 08:18 EST | | 0 | Marine Thunderstorm Wind (MG 37 kt) |
| | 04/05/11 08:42 EST | | 0 | Source: Buoy |

Wind gust between 36 and 37 knots were reported at the Francis Scott Key Bridge.

CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.2 SE GREENBERRY POINT [38.97, -76.46]

| | | | | |
|--|--------------------|--|---|-------------------------------------|
| | 04/05/11 08:21 EST | | 0 | Marine Thunderstorm Wind (MG 36 kt) |
| | 04/05/11 08:21 EST | | 0 | Source: Mesonet |

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

CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- 4.8 NNE GUNPOWDER FALLS STATE PARK [39.42, -76.29]

| | | | | |
|--|--------------------|--|---|-------------------------------------|
| | 04/05/11 08:22 EST | | 0 | Marine Thunderstorm Wind (MG 34 kt) |
| | 04/05/11 08:55 EST | | 0 | Source: Mesonet |

A wind gust of 34 knot was measured at the Deerfield Elementary School.

CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 12.7 SSW THOMAS POINT LIGHT [38.73, -76.54]

| | | | | |
|--|--------------------|--|---|-------------------------------------|
| | 04/05/11 08:25 EST | | 0 | Marine Thunderstorm Wind (MG 37 kt) |
| | 04/05/11 08:45 EST | | 0 | Source: Mesonet |

Wind gusts up to 37 knots were reported at Herring Bay.

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

| | | | | |
|--|--------------------|--|---|-------------------------------------|
| | 04/05/11 08:35 EST | | 0 | Marine Thunderstorm Wind (MG 39 kt) |
| | 04/05/11 08:50 EST | | 0 | Source: Mesonet |

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

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

| | | | | |
|--|--------------------|--|---|-------------------------------------|
| | 04/05/11 08:36 EST | | 0 | Marine Thunderstorm Wind (EG 34 kt) |
| | 04/05/11 08:36 EST | | 0 | Source: Mesonet |

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

TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.2 W POTOMAC LIGHT [38.34, -76.99]

| | | | | |
|--|--------------------|--|---|-------------------------------------|
| | 04/05/11 08:40 EST | | 0 | Marine Thunderstorm Wind (MG 38 kt) |
| | 04/05/11 08:56 EST | | 0 | Source: Mesonet |

Wind gusts of 38 knots were reported at the Potomac Lighthouse.

TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.3 N CUCKOLD CREEK [38.31, -76.93]

| | | | | |
|--|--------------------|--|---|-------------------------------------|
| | 04/05/11 08:44 EST | | 0 | Marine Thunderstorm Wind (MG 37 kt) |
| | 04/05/11 08:44 EST | | 0 | Source: Mesonet |

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|---|--------------------|----------------------|------------------------|-------------------------------------|
| A wind gust of 37 knots was reported at Cuckold Creek. | | | | |
| TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.1 NNE MONROE CREEK [38.23, -76.95] | | | | |
| | 04/05/11 08:45 EST | 0 | | Marine Thunderstorm Wind (MG 46 kt) |
| | 04/05/11 08:55 EST | 0 | | Source: Mesonet |
| Wind gusts up to 46 knots were reported at Monroe Creek. | | | | |
| CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- THOMAS POINT LIGHT [38.90, -76.44] | | | | |
| | 04/05/11 09:00 EST | 0 | | Marine Thunderstorm Wind (MG 41 kt) |
| | 04/05/11 09:00 EST | 0 | | Source: Buoy |
| A wind gust of 41 knots was measured at the Thomas Point Lighthouse. | | | | |
| CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 12.7 SSW THOMAS POINT LIGHT [38.73, -76.54] | | | | |
| | 04/05/11 09:10 EST | 0 | | Marine Thunderstorm Wind (EG 34 kt) |
| | 04/05/11 09:10 EST | 0 | | Source: Mesonet |
| Wind gusts in excess of 30 knots were reported at Herring Bay. | | | | |
| CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.2 SE GREENBERRY POINT [38.97, -76.46] | | | | |
| | 04/05/11 09:11 EST | 0 | | Marine Thunderstorm Wind (MG 34 kt) |
| | 04/05/11 09:11 EST | 0 | | Source: Mesonet |
| A wind gust of 34 knots was reported at Greenberry Point. | | | | |
| <p>A strong cold front slowly traced through the area during the morning hours of the 5th. A southerly flow ahead of the front caused copious amounts of moisture to move into the region from the Atlantic Ocean and Gulf of Mexico. The deep moisture combined with a mid-level trough that was associated with the cold front to produce moderate amounts of instability. Lift from the cold front along with moderate instability triggered showers and thunderstorms across the waters.</p> <p>Thunderstorms were able to mix down gusty winds from aloft.</p> | | | | |
| TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 0.3 NE POTOMAC BUOY [38.03, -76.34] | | | | |
| | 04/12/11 13:00 EST | 0 | | Marine Thunderstorm Wind (MG 34 kt) |
| | 04/12/11 13:00 EST | 0 | | Source: Buoy |
| A wind gust of 34 knots was reported at the Potomac Buoy. | | | | |
| <p>Low pressure both at the surface and the upper levels of the atmosphere passed through the waters on the 12th. There was enough cold air aloft and forcing from this system for showers and thunderstorms to develop. An isolated thunderstorm did produce gusty winds.</p> | | | | |
| CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- THOMAS POINT LIGHT [38.90, -76.44] | | | | |
| | 04/16/11 18:00 EST | 0 | | Marine Thunderstorm Wind (MG 52 kt) |
| | 04/16/11 18:00 EST | 0 | | Source: Buoy |
| A wind gust of 52 knots was reported at the Thomas Point Lighthouse. | | | | |
| CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.2 SE GREENBERRY POINT [38.97, -76.46] | | | | |
| | 04/16/11 18:12 EST | 0 | | Marine Thunderstorm Wind (MG 50 kt) |
| | 04/16/11 18:12 EST | 0 | | Source: Mesonet |
| A wind gust of 50 knots was reported at Greenberry Point. | | | | |
| CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- CHESAPEAKE BEACH [38.69, -76.54] | | | | |
| | 04/16/11 18:19 EST | 0 | | Marine Thunderstorm Wind (MG 51 kt) |
| | 04/16/11 18:30 EST | 0 | | Source: Mesonet |
| Wind gusts of 51 knots were reported at Chesapeake Beach. | | | | |
| CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- CHESAPEAKE BEACH [38.69, -76.54] | | | | |

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|----------|--------------------|-------------------|---------------------|-------------------------------------|
| | 04/16/11 18:40 EST | | 0 | Marine Thunderstorm Wind (MG 51 kt) |
| | 04/16/11 19:09 EST | | 0 | Source: Mesonet |

Wind gusts up to 51 knots were reported at Chesapeake Beach.

Strong low pressure over the Midwest remained cutoff from the jet stream on the 16th. The warm front associated with this system passed through during the morning. Warm and moist southerly winds behind the front provided moderate amounts of instability. The instability combined with forcing from the low for showers and thunderstorms to develop.

There was enough instability for thunderstorms to mix down gusty winds from aloft.

PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- 0.3 S BALTIMORE CITY [39.27, -76.59]

| | | |
|--------------------|---|-------------------------------------|
| 04/24/11 16:00 EST | 0 | Marine Thunderstorm Wind (MG 34 kt) |
| 04/24/11 16:00 EST | 0 | Source: Mesonet |

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

TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 0.5 SW WASHINGTON NATIONALS PARK [38.86, -77.02]

| | | |
|--------------------|---|-------------------------------------|
| 04/24/11 19:44 EST | 0 | Marine Thunderstorm Wind (EG 36 kt) |
| 04/24/11 19:44 EST | 0 | Source: Mesonet |

A wind gust of 36 knots was estimated near Nationals Park.

TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- WASHINGTON NATIONALS PARK [38.87, -77.01]

| | | |
|--------------------|---|-------------------------------------|
| 04/24/11 19:44 EST | 0 | Marine Thunderstorm Wind (MG 36 kt) |
| 04/24/11 19:44 EST | 0 | Source: Mesonet |

A wind gust of 36 knots was measured at Nationals Park.

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

| | | |
|--------------------|---|-------------------------------------|
| 04/24/11 20:10 EST | 0 | Marine Thunderstorm Wind (MG 41 kt) |
| 04/24/11 20:10 EST | 0 | Source: Buoy |

A wind gust of 41 knots was reported at the Annapolis Buoy.

A southerly flow around high pressure over the Atlantic Ocean provided a warm and moist airmass across the region. A pressure trough combined with the warm and moist conditions to trigger showers and thunderstorms. There was enough instability for some thunderstorms to produce gusty winds across the waters.

TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.2 W POTOMAC LIGHT [38.34, -76.99]

| | | |
|--------------------|---|-------------------------------------|
| 04/26/11 17:00 EST | 0 | Marine Thunderstorm Wind (MG 36 kt) |
| 04/26/11 17:00 EST | 0 | Source: Mesonet |

A wind gust of 36 knots was reported at the Potomac Lighthouse.

A southerly flow around high pressure off the east coast transported plenty of moisture from the Gulf of Mexico and Atlantic Ocean across the area. The warm and moist southerly flow combined with a pressure trough to trigger showers and thunderstorms. Moderate amounts of instability caused a few thunderstorms to produce damaging winds and large hail. An isolated thunderstorm produced gusty winds.

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

| | | |
|--------------------|---|-------------------------------------|
| 04/27/11 16:00 EST | 0 | Marine Thunderstorm Wind (EG 34 kt) |
| 04/27/11 16:00 EST | 0 | Source: Buoy |

A wind gust in excess of 30 knots was reported at the Thomas Point Lighthouse.

CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- CHESAPEAKE BEACH [38.69, -76.54]

| | | |
|--------------------|---|-------------------------------------|
| 04/27/11 16:54 EST | 0 | Marine Thunderstorm Wind (MG 34 kt) |
| 04/27/11 16:54 EST | 0 | Source: Mesonet |

A wind gust of 34 knots was reported at Chesapeake Beach.

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

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| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|----------|--------------------|-------------------|---------------------|-------------------------------------|
| | 04/27/11 19:00 EST | | 0 | Marine Thunderstorm Wind (MG 35 kt) |
| | 04/27/11 19:00 EST | | 0 | Source: Buoy |

A wind gust of 35 knots was reported at the Thomas Point Lighthouse.

High pressure remained over the western Atlantic while a strong cold front slowly tracked through the Midwest. A southerly flow pumped in copious amounts of moisture from the Atlantic and Gulf of Mexico. The trough of low pressure associated with the cold front provided enough cold air aloft for moderate instability to develop. The instability combined with an upper-level disturbance rotating around the trough to trigger showers and thunderstorms.

There was enough instability along with stronger winds aloft for some thunderstorms to produce gusty winds.

| CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 4.3 WSW THOMAS POINT LIGHT [38.88, -76.51] | | | | |
|---|--------------------|--|---|-------------------------------------|
| | 04/28/11 10:25 EST | | 0 | Marine Thunderstorm Wind (EG 52 kt) |
| | 04/28/11 10:25 EST | | 0 | Source: Public |

A thunderstorm wind gust was estimated to be around 60 mph based on thunderstorm wind damage near Rhode River.

| TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.1 NE BISHOPS HEAD [38.22, -76.04] | | | | |
|---|--------------------|--|---|-------------------------------------|
| | 04/28/11 20:06 EST | | 0 | Marine Thunderstorm Wind (MG 35 kt) |
| | 04/28/11 20:06 EST | | 0 | Source: Mesonet |

A wind gust of 35 knots was reported at Bishops Head.

| TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.5 E BISHOPS HEAD [38.22, -76.03] | | | | |
|--|--------------------|--|---|-------------------------------------|
| | 04/28/11 20:07 EST | | 0 | Marine Thunderstorm Wind (MG 37 kt) |
| | 04/28/11 20:07 EST | | 0 | Source: Mesonet |

A wind gust of 37 knots was reported at Bishops Head.

A strong cold front slowly passed through the waters during the morning and early afternoon hours of the 28th. A southerly flow ahead of the front caused deep moisture over the area. The deep moisture combined with a mid-level trough to produce moderate amounts of instability. The cold front combined with the instability to trigger showers and thunderstorms. Some thunderstorms were able to mix down gusty winds from aloft.

DISTRICT OF COLUMBIA

| (DC-Z001) DISTRICT OF COLUMBIA | | | | |
|--------------------------------|--------------------|--|---|---------------|
| | 04/16/11 15:52 EST | | 0 | Coastal Flood |
| | 04/17/11 08:06 EST | | 0 | |

A strong pressure gradient between high pressure over the Atlantic Ocean and a cold front moving in from the Ohio Valley resulted in a strong onshore flow. Elevated water levels due to the onshore flow caused areas of coastal flooding along near the Tidal Potomac River.

| (DC-Z001) DISTRICT OF COLUMBIA | | | | |
|--------------------------------|--------------------|--|---|---------------|
| | 04/17/11 19:18 EST | | 0 | Coastal Flood |
| | 04/19/11 09:47 EST | | 0 | |

Heavy rainfall on April 16th caused elevated fresh water levels upstream along the Potomac River. A rush of freshwater from the Potomac River caused water levels to rise along the Tidal Potomac River near Washington DC on the 17th. Water levels continued to rise on the 18th before slowly falling during the 19th.

The elevated water levels caused major coastal flooding for areas near the Tidal Potomac River in Washington D.C.

| DISTRICT OF COLUMBIA COUNTY --- 1.4 N US CAPITOL [38.90, -77.02] | | | | |
|--|--------------------|--|---|-------------------------|
| | 04/24/11 19:34 EST | | 0 | Hail (1.00 in) |
| | 04/24/11 19:34 EST | | 0 | Source: Trained Spotter |

Quarter sized hail was reported in Washington D.C.

A southerly flow around high pressure over the Atlantic Ocean provided a warm and moist airmass across the region. A pressure trough combined with the warm and moist conditions to trigger showers and thunderstorms. There was enough instability for an

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|---|--------------------|-------------------|---------------------|--------------------------------------|
| isolated thunderstorm to produce large hail. | | | | |
| MARYLAND, Central | | | | |
| MONTGOMERY COUNTY --- 1.3 WSW GEORGETOWN JCT [38.99, -77.07] | | | | |
| | 04/05/11 03:29 EST | | 5K | Thunderstorm Wind (EG 56 kt) |
| | 04/05/11 03:29 EST | | 0 | Source: Broadcast Media |
| A tree fell onto an automobile along Jones Mill Road. | | | | |
| CHARLES COUNTY --- 1.4 ENE MC CONCHIE [38.51, -77.05] | | | | |
| | 04/05/11 03:39 EST | | 1K | Thunderstorm Wind (EG 56 kt) |
| | 04/05/11 03:39 EST | | 0 | Source: Fire Department/Rescue |
| A tree was down along Poor House Road. | | | | |
| PRINCE GEORGE'S COUNTY --- 0.4 N RADIANT VLY [38.94, -76.90] | | | | |
| | 04/05/11 03:42 EST | | 10K | Thunderstorm Wind (EG 56 kt) |
| | 04/05/11 03:42 EST | | 0 | Source: Fire Department/Rescue |
| A tree fell onto a house in Landover. | | | | |
| CHARLES COUNTY --- 0.5 NW SPRINGHILL [38.50, -76.99] | | | | |
| | 04/05/11 03:44 EST | | 1K | Thunderstorm Wind (EG 56 kt) |
| | 04/05/11 03:44 EST | | 0 | Source: Fire Department/Rescue |
| A telephone pole and wires were down along Old Stage Coach Road about one third of a mile from Crain Highway. | | | | |
| CHARLES COUNTY --- 0.6 WNW MATTAWOMAN [38.65, -76.89], 0.6 WNW MATTAWOMAN [38.65, -76.89] | | | | |
| | 04/05/11 03:48 EST | | 5K | Tornado (EF0, L: 0.09 mi , W: 50 yd) |
| | 04/05/11 03:49 EST | | 0 | Source: NWS Storm Survey |
| A brief tornado struck the community of Marbella in northern Waldorf. A large pine tree was blown over into a house roof and several community trees were snapped. There was damage to a fence and there were many windblown outdoor objects. | | | | |
| PRINCE GEORGE'S COUNTY --- 2.9 E COLLINGTON [38.97, -76.72], 3.5 E COLLINGTON [38.97, -76.70] | | | | |
| | 04/05/11 03:55 EST | | 2K | Tornado (EF0, L: 0.73 mi , W: 50 yd) |
| | 04/05/11 03:56 EST | | 0 | Source: NWS Storm Survey |
| Several pine trees were blown over in the Sherwood Manor area. The tornado continued into Anne Arundel County. | | | | |
| ANNE ARUNDEL COUNTY --- 3.3 S CONAWAYS [38.97, -76.70], 2.9 SW CROFTON [38.98, -76.69] | | | | |
| | 04/05/11 03:56 EST | | 2K | Tornado (EF0, L: 0.61 mi , W: 50 yd) |
| | 04/05/11 03:57 EST | | 0 | Source: NWS Storm Survey |
| Several pine trees were topped fifteen feet up just south of the Patuxent Preserve. | | | | |
| CALVERT COUNTY --- 1.4 SE DUNKIRK [38.70, -76.65] | | | | |
| | 04/05/11 04:01 EST | | 1K | Thunderstorm Wind (EG 61 kt) |
| | 04/05/11 04:01 EST | | 0 | Source: Public |
| Trees were down along Baker Street. | | | | |
| CALVERT COUNTY --- 1.5 SE DUNKIRK [38.70, -76.65] | | | | |
| | 04/05/11 04:01 EST | | 2K | Thunderstorm Wind (EG 61 kt) |
| | 04/05/11 04:01 EST | | 0 | Source: Public |
| Shingles were lifted from a roof near Dunkirk. Branches were also down across this area. | | | | |
| CALVERT COUNTY --- 1.3 NW SUNDERLAND [38.68, -76.62] | | | | |

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|--|--------------------|-------------------|---------------------|--------------------------------|
| | 04/05/11 04:03 EST | | 1K | Thunderstorm Wind (EG 56 kt) |
| | 04/05/11 04:03 EST | | 0 | Source: Emergency Manager |
| A tree was down along Skinners Turn Road. | | | | |
| <hr/> | | | | |
| CALVERT COUNTY --- 1.5 SSW COX [38.58, -76.64] | 04/05/11 04:05 EST | | 1K | Thunderstorm Wind (EG 56 kt) |
| | 04/05/11 04:05 EST | | 0 | Source: Fire Department/Rescue |
| A tree was down along Lowery Road and Hidden Retreat Trail. | | | | |
| <hr/> | | | | |
| CALVERT COUNTY --- 1.0 E OWINGS [38.72, -76.58] | 04/05/11 04:07 EST | | 10K | Thunderstorm Wind (EG 61 kt) |
| | 04/05/11 04:07 EST | | 0 | Source: NWS Storm Survey |
| A barn was destroyed due to thunderstorm wind. | | | | |
| <hr/> | | | | |
| BALTIMORE COUNTY --- 0.6 SE PERRY HALL [39.41, -76.46] | 04/05/11 04:08 EST | | 0 | Thunderstorm Wind (EG 56 kt) |
| | 04/05/11 04:08 EST | | 0 | Source: Trained Spotter |
| A wind gust of 65 mph was estimated by a trained spotter. | | | | |
| <hr/> | | | | |
| ANNE ARUNDEL COUNTY --- 1.0 SE FAIR HAVEN [38.74, -76.56] | 04/05/11 04:10 EST | | 0.50K | Thunderstorm Wind (EG 56 kt) |
| | 04/05/11 04:10 EST | | 0 | Source: Public |
| Tree limbs were down near North Beach. | | | | |
| <hr/> | | | | |
| ANNE ARUNDEL COUNTY --- 2.0 ESE FAIR HAVEN [38.73, -76.54] | 04/05/11 04:10 EST | | 0 | Thunderstorm Wind (MG 57 kt) |
| | 04/05/11 04:10 EST | | 0 | Source: Mesonet |
| A wind gust of 66 mph was reported at Herring Bay. | | | | |
| <hr/> | | | | |
| CALVERT COUNTY --- 1.7 ENE SOLLERS [38.39, -76.47] | 04/05/11 04:20 EST | | 1K | Thunderstorm Wind (EG 52 kt) |
| | 04/05/11 04:20 EST | | 0 | Source: Fire Department/Rescue |
| A tree was down along Mill Bridge Road and Sollers Wharf Road. | | | | |
| <hr/> | | | | |
| ST. MARY'S COUNTY --- 0.4 S VALLEY LEE [38.19, -76.52] | 04/05/11 04:24 EST | | 5K | Thunderstorm Wind (EG 52 kt) |
| | 04/05/11 04:24 EST | | 0 | Source: Emergency Manager |
| A tree fell onto a mobile home along Bank Creek Road. | | | | |
| <p>A strong cold front slowly traced through the area during the morning hours of the 5th. A southerly flow ahead of the front caused copious amounts of moisture to move into the region from the Atlantic Ocean and Gulf of Mexico. The deep moisture combined with a mid-level trough that was associated with the cold front to produce moderate amounts of instability. Lift from the cold front along with moderate instability triggered showers and thunderstorms across the area.</p> <p>Thunderstorms were able to mix down strong winds from aloft causing damaging wind gusts. Wind speeds that changed rapidly in speed and direction with height caused the stronger storms to produce isolated tornadoes.</p> | | | | |
| <hr/> | | | | |
| (MD-Z007) HARFORD, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z014) ANNE ARUNDEL | 04/16/11 14:30 EST | | 0 | Coastal Flood |
| | 04/17/11 05:58 EST | | 0 | |
| <p>A strong pressure gradient between high pressure over the Atlantic Ocean and a cold front moving in from the Ohio Valley resulted in a strong onshore flow. Elevated water levels due to the onshore flow caused areas of coastal flooding along the western shore of the Chesapeake Bay.</p> | | | | |

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|---|--------------------|-------------------|---------------------|--------------------------------------|
| CARROLL COUNTY --- 0.7 SW CEDARHURST [39.49, -76.89] | | | | |
| | 04/16/11 16:40 EST | | 0.50K | Thunderstorm Wind (EG 50 kt) |
| | 04/16/11 16:40 EST | | 0 | Source: Fire Department/Rescue |
| A tree was down near Route 140. | | | | |
| CARROLL COUNTY --- 0.3 SSE HOUCKSVILLE [39.58, -76.88] | | | | |
| | 04/16/11 16:45 EST | | 0.50K | Thunderstorm Wind (EG 50 kt) |
| | 04/16/11 16:45 EST | | 0 | Source: Trained Spotter |
| Large branches that were about three to four inches in diameter were brought down from thunderstorms winds near Carrollton. | | | | |
| CALVERT COUNTY --- 0.5 SE HUNTINGTOWN [38.62, -76.61] | | | | |
| | 04/16/11 17:53 EST | | 2K | Thunderstorm Wind (EG 50 kt) |
| | 04/16/11 17:53 EST | | 0 | Source: Emergency Manager |
| Several large trees were blown down. | | | | |
| FREDERICK COUNTY --- 1.2 SSW NEW LONDON [39.41, -77.26], 0.5 SE NEW LONDON [39.41, -77.24] | | | | |
| | 04/16/11 18:37 EST | | 50K | Tornado (EF1, L: 1.17 mi , W: 50 yd) |
| | 04/16/11 18:38 EST | | 0 | Source: NWS Storm Survey |
| A detached garage collapsed along New London Road. Shingles and siding were removed from a single-family home and softwood trees were snapped along New London Road. Numerous hardwood trees were uprooted or snapped and barns were damaged or destroyed. | | | | |
| FREDERICK COUNTY --- 0.7 SE NEW LONDON [39.41, -77.24], 2.3 SSE UNIONVILLE [39.45, -77.17] | | | | |
| | 04/16/11 18:38 EST | | 50K | Tornado (EF1, L: 4.36 mi , W: 50 yd) |
| | 04/16/11 18:46 EST | | 0 | Source: NWS Storm Survey |
| Roofing panels were removed from a detached garage near Detrick Road and Old Annapolis Road. Six or more softwood trees were snapped and pieces of large limbs and plywood were impaled in adjacent roofs. | | | | |
| FREDERICK COUNTY --- 3.4 NNE PLANE NUMBER FOUR [39.43, -77.18] | | | | |
| | 04/16/11 18:43 EST | | 3K | Thunderstorm Wind (EG 56 kt) |
| | 04/16/11 18:43 EST | | 0 | Source: NWS Storm Survey |
| Several trees were snapped and down near the intersection of Woodville Road and Glissans Mill Road. | | | | |
| FREDERICK COUNTY --- 3.5 SSE UNIONVILLE [39.44, -77.15], 3.8 SE UNIONVILLE [39.44, -77.13] | | | | |
| | 04/16/11 18:47 EST | | 25K | Tornado (EF1, L: 1.29 mi , W: 50 yd) |
| | 04/16/11 18:48 EST | | 0 | Source: NWS Storm Survey |
| Substantial tree damage was noted near Talbot Run road. Pine trees were snapped near Buffalo Road and there was also a report of siding and trim torn from a home near Buffalo Road. | | | | |
| CARROLL COUNTY --- 1.1 NNW COVER [39.44, -77.13], 0.8 NW TAYLORSVILLE [39.46, -77.09] | | | | |
| | 04/16/11 18:48 EST | | 5K | Tornado (EF1, L: 2.21 mi , W: 50 yd) |
| | 04/16/11 18:51 EST | | 0 | Source: NWS Storm Survey |
| Tree damage was found near the intersection of MD-26 and MD-27. A power pole was also snapped near the intersection. | | | | |
| CARROLL COUNTY --- 1.7 NE MAYBERRY [39.65, -77.08], 3.0 NNW MELROSE [39.72, -76.92] | | | | |
| | 04/16/11 18:51 EST | | 20K | Tornado (EF0, L: 1.95 mi , W: 75 yd) |
| | 04/16/11 19:05 EST | | 0 | Source: NWS Storm Survey |
| Dozens of trees were snapped along Deep Run Road. A roof was partially removed from a barn along Geeting Road and numerous trees were down. Several trees and large branches were also down at the Grand Valley Farms subdivision. A large tree fell on a home rendering the home uninhabitable. The tornado also snapped trees and partially removed another roof from a barn along Band Hall Hill Road. | | | | |
| CARROLL COUNTY --- 1.0 ESE WESTMINSTER CLRWW AR [39.47, -77.00] | | | | |

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|----------|--------------------|-------------------|---------------------|------------------------------|
| | 04/16/11 18:52 EST | | 1K | Thunderstorm Wind (EG 61 kt) |
| | 04/16/11 18:52 EST | | 0 | Source: Trained Spotter |

A few trees were toppled along Benrose Lane.

CARROLL COUNTY --- 0.3 SSE HOUCKSVILLE [39.58, -76.88]

| | | | | |
|--|--------------------|--|----|------------------------------|
| | 04/16/11 19:03 EST | | 1K | Thunderstorm Wind (EG 56 kt) |
| | 04/16/11 19:03 EST | | 0 | Source: Trained Spotter |

Several small branches were brought down from thunderstorm winds.

Strong low pressure over the Midwest remained cutoff from the jet stream on the 16th. The warm front associated with this system passed through during the morning. Warm and moist southerly winds behind the front provided moderate amounts of instability. The instability combined with forcing from the low for showers and thunderstorms to develop.

There was enough instability along with strong winds aloft for some thunderstorms to become severe.

FREDERICK COUNTY --- 0.9 NE MYERSVILLE [39.51, -77.56], 1.0 NE MYERSVILLE [39.51, -77.56], 1.0 NNE MYERSVILLE [39.51, -77.56], 0.9 NNE MYERSVILLE [39.51, -77.56]

| | | | | |
|--|--------------------|--|---|---------------------------|
| | 04/16/11 18:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/16/11 23:30 EST | | 0 | Source: Emergency Manager |

A high water rescue was performed from a submerged vehicle on Route 40 in the vicinity of Catocctin Creek. A rain gage in the area recorded 1.85 inches.

FREDERICK COUNTY --- 1.7 NE THURMONT [39.64, -77.40], 1.6 NNW GRACEHAM [39.64, -77.39], 1.6 NNW GRACEHAM [39.64, -77.39], 1.7 NE THURMONT [39.64, -77.40]

| | | | | |
|--|--------------------|--|---|---------------------------|
| | 04/16/11 18:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/16/11 23:30 EST | | 0 | Source: Trained Spotter |

Roddy Creek Road was closed near Route 15. A rain gage in the vicinity measured 1.83 inches.

FREDERICK COUNTY --- 0.5 E THURMONT [39.62, -77.41], 3.6 E EMMITSBURG [39.71, -77.26], 2.8 NW ST ANTHONY [39.71, -77.38], 1.6 WNW BLUE MTN [39.61, -77.45]

| | | | | |
|--|--------------------|--|---|---------------------------|
| | 04/16/11 20:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/16/11 23:00 EST | | 0 | Source: Newspaper |

Numerous roads were closed in Thurmont and Emmitsburg due to flooding.

ANNE ARUNDEL COUNTY --- 3.5 WSW RUTLAND [38.95, -76.69], 3.4 WSW RUTLAND [38.95, -76.69], 3.8 WSW RUTLAND [38.95, -76.70], 3.8 WSW RUTLAND [38.95, -76.70]

| | | | | |
|--|--------------------|--|---|---------------------------|
| | 04/17/11 13:30 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/17/11 20:30 EST | | 0 | Source: Broadcast Media |

High water rescue was performed for 3 people on a flooded roadway.

A strong and closed low pressure system over the Ohio Valley remained nearly stationary through the 16th, bringing copious moisture northward up the eastern seaboard. Lift to produce showers and thunderstorms was focused along a warm front that passed north through the mid-Atlantic during the morning. With ground already saturated from several rounds of significant rainfall in the past week, flooding and flash flooding resulted. Rainfall amounts exceeded 4 inches along the Blue Ridge Mountains.

ALLEGANY COUNTY --- RAWLINGS [39.53, -78.88], 1.1 NNE RAWLINGS [39.54, -78.87], 1.2 N RAWLINGS [39.55, -78.88], 0.8 WNW RAWLINGS [39.53, -78.89]

| | | | | |
|--|--------------------|--|---|---------------------------|
| | 04/19/11 11:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/19/11 18:00 EST | | 0 | Source: State Official |

Basements were flooded due to heavy rain.

A wave of low pressure rode along a stationary boundary over northern Maryland, producing scattered showers and isolated thunderstorms. A highly moist atmosphere supported heavy rainfall rates and training activity combined with saturated ground was enough to cause isolated flooding in Allegany County. Rainfall amounts of up to 1.25" were reported.

(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z502) CENTRAL AND EASTERN ALLEGANY

| | | | | |
|--|--------------------|--|---|-----------|
| | 04/19/11 22:47 EST | | 0 | Dense Fog |
| | 04/20/11 07:59 EST | | 0 | |

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|----------|-----------|-------------------|---------------------|------------------------|
|----------|-----------|-------------------|---------------------|------------------------|

A stationary boundary remained just to the south during the 19th and 20th. An easterly flow on the cool side of the front ushered in plenty of moisture from the Atlantic Ocean during this time. The moisture led to the development of dense fog late on the 19th into the morning hours of the 20th.

MONTGOMERY COUNTY --- 2.8 SSW WHITES FERRY [39.16, -77.49]

| | | | | |
|--|--------------------|---|--|----------------|
| | 04/24/11 15:03 EST | 0 | | Hail (1.25 in) |
| | 04/24/11 15:03 EST | 0 | | Source: Public |

Hail up to the size of half dollars was reported near Whites Ferry.

MONTGOMERY COUNTY --- 2.1 ESE CEDAR GROVE [39.24, -77.19]

| | | | | |
|--|--------------------|---|--|----------------|
| | 04/24/11 15:20 EST | 0 | | Hail (1.00 in) |
| | 04/24/11 15:20 EST | 0 | | Source: Public |

Hail up to the size of quarters was reported near Damascus.

MONTGOMERY COUNTY --- 0.8 SW UNITY [39.22, -77.06]

| | | | | |
|--|--------------------|---|--|------------------------------|
| | 04/24/11 15:30 EST | 0 | | Thunderstorm Wind (EG 50 kt) |
| | 04/24/11 15:30 EST | 0 | | Source: Trained Spotter |

Small limbs were down at the intersection of Damascus Road and Route 97.

HOWARD COUNTY --- 1.1 WNW EAST LIOAK [39.23, -76.90]

| | | | | |
|--|--------------------|----|--|------------------------------|
| | 04/24/11 15:42 EST | 1K | | Thunderstorm Wind (EG 52 kt) |
| | 04/24/11 15:42 EST | 0 | | Source: Trained Spotter |

A tree was down at Harpers Farm Road and Clarksville Pike.

HOWARD COUNTY --- 2.9 ENE DAYTON [39.25, -76.93]

| | | | | |
|--|--------------------|----|--|--------------------------------|
| | 04/24/11 15:44 EST | 1K | | Thunderstorm Wind (EG 52 kt) |
| | 04/24/11 15:44 EST | 0 | | Source: Fire Department/Rescue |

A tree was down at the intersection of Folly Quarter Road and Homewood Road.

PRINCE GEORGE'S COUNTY --- 1.1 W BELTSVILLE [39.03, -76.92]

| | | | | |
|--|--------------------|---|--|------------------------------|
| | 04/24/11 15:46 EST | 0 | | Thunderstorm Wind (EG 52 kt) |
| | 04/24/11 15:46 EST | 0 | | Source: Trained Spotter |

A wind gust was estimated around 60 mph near Beltsville.

HOWARD COUNTY --- 1.4 SE JONESTOWN [39.20, -76.80]

| | | | | |
|--|--------------------|----|--|--------------------------------|
| | 04/24/11 15:47 EST | 1K | | Thunderstorm Wind (EG 52 kt) |
| | 04/24/11 15:47 EST | 0 | | Source: Fire Department/Rescue |

A tree was down at Silver Trumpet Drive and Tamar Drive.

HOWARD COUNTY --- 2.0 NNW WATERLOO [39.20, -76.80]

| | | | | |
|--|--------------------|---|--|------------------------------|
| | 04/24/11 15:47 EST | 0 | | Thunderstorm Wind (MG 50 kt) |
| | 04/24/11 15:47 EST | 0 | | Source: Mesonet |

A wind gust of 58 mph was reported near Elkridge.

HOWARD COUNTY --- 2.0 WSW ELK RIDGE [39.21, -76.75]

| | | | | |
|--|--------------------|---|--|------------------------------|
| | 04/24/11 15:47 EST | 0 | | Thunderstorm Wind (EG 52 kt) |
| | 04/24/11 15:47 EST | 0 | | Source: Unknown |

A tree was down near Elk Ridge.

HOWARD COUNTY --- 2.0 SE JONESTOWN [39.20, -76.80]

| | | | | |
|--|--------------------|---|--|------------------------------|
| | 04/24/11 15:48 EST | 0 | | Thunderstorm Wind (MG 50 kt) |
| | 04/24/11 15:48 EST | 0 | | Source: Mesonet |

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|----------|-----------|-------------------|---------------------|------------------------|
|----------|-----------|-------------------|---------------------|------------------------|

A wind gust of 58 mph was reported near Elkridge.

ANNE ARUNDEL COUNTY --- 1.4 SSW MILLERSVILLE [39.03, -76.68]

| | | | | |
|--|--------------------|--|---|-------------------------|
| | 04/24/11 16:03 EST | | 0 | Hail (1.00 in) |
| | 04/24/11 16:03 EST | | 0 | Source: Trained Spotter |

Hail up to the size of quarters was reported near Crofton.

ANNE ARUNDEL COUNTY --- 0.9 SW GLEN BURNIE PARK [39.14, -76.64]

| | | | | |
|--|--------------------|--|---|------------------------------|
| | 04/24/11 18:55 EST | | 0 | Thunderstorm Wind (EG 50 kt) |
| | 04/24/11 18:55 EST | | 0 | Source: Trained Spotter |

Small limbs were down through the area.

A southerly flow around high pressure over the Atlantic Ocean provided a warm and moist airmass across the region. A pressure trough combined with the warm and moist conditions to trigger showers and thunderstorms. There was enough instability for some thunderstorms to produce damaging winds and large hail.

PRINCE GEORGE'S COUNTY --- 0.6 WSW FRIENDLY PG ARPK ARP [38.75, -76.96], 0.2 W FRIENDLY PG ARPK ARP [38.75, -76.95]

| | | | | |
|--|--------------------|--|-------|--------------------------------------|
| | 04/27/11 18:06 EST | | 0.10M | Tornado (EF0, L: 0.39 mi , W: 75 yd) |
| | 04/27/11 18:07 EST | | 0 | Source: NWS Employee |

A brief tornado occurred at the Potomac Airfield. Six general aviation aircraft suffered minor to major damage. A Cessna 182 had its ti down lanes snapped and then was tossed 120 feet northeast across the taxiway. A Cessna 172 was lifted up and smashed nose first into the ground and a Cessna 335 skymaster was tossed about 25 feet and smashed along the ground.

PRINCE GEORGE'S COUNTY --- 0.4 ENE WESTCHESTER ESTATES [38.78, -76.91], 0.9 N CLINTON [38.78, -76.90]

| | | | | |
|--|--------------------|--|-------|--------------------------------------|
| | 04/27/11 18:12 EST | | 0.10M | Tornado (EF0, L: 0.73 mi , W: 50 yd) |
| | 04/27/11 18:13 EST | | 0 | Source: Public |

Significant damage was reported to trees along Spruce Drive and Coventry Way. Some trees fell onto cars and modest damage occurred to shingles and siding.

PRINCE GEORGE'S COUNTY --- 0.7 S ANDREWS MANOR [38.81, -76.90], 0.8 SE ANDREWS MANOR [38.81, -76.89]

| | | | | |
|--|--------------------|--|----|---------------------------------------|
| | 04/27/11 18:16 EST | | 5K | Tornado (EF0, L: 0.39 mi , W: 100 yd) |
| | 04/27/11 18:17 EST | | 0 | Source: NWS Employee |

Numerous trees were uprooted and snapped just southwest of the intersection of Auth Road and Allentown Road. The tornado also produced some roofing and siding damage.

High pressure remained over the western Atlantic while a strong cold front slowly tracked through the Midwest. A southerly flow pumped in copious amounts of moisture from the Atlantic and Gulf of Mexico. The trough of low pressure associated with the cold front provided enough cold air aloft for moderate instability to develop. The instability combined with an upper-level disturbance rotating around the trough to trigger showers and thunderstorms.

Low level winds changed rapidly in speed and direction with height causing isolated tornadoes to develop.

ALLEGANY COUNTY --- 0.7 SE CORRIGANVILLE [39.69, -78.79]

| | | | | |
|--|--------------------|--|----|--------------------------------|
| | 04/28/11 00:22 EST | | 1K | Thunderstorm Wind (EG 50 kt) |
| | 04/28/11 00:22 EST | | 0 | Source: Fire Department/Rescue |

Several tree limbs were down near the Corriganville Fire Station.

ALLEGANY COUNTY --- 1.8 NNE TOWN CREEK [39.55, -78.54], 2.4 NNE TOWN CREEK [39.56, -78.53]

| | | | | |
|--|--------------------|--|-----|--------------------------------------|
| | 04/28/11 00:27 EST | | 10K | Tornado (EF0, L: 0.55 mi , W: 75 yd) |
| | 04/28/11 00:28 EST | | 0 | Source: NWS Storm Survey |

Numerous trees were uprooted along a hillside near Pack Horse Road. A large tree that was three feet in diameter partially fell on a residence on Pack Horse Road. There was also damage to trees behind a residence along Manford Road near the Green Ridge State Forest.

ALLEGANY COUNTY --- 1.8 W GREEN RANGE STATION [39.60, -78.46]

| | | | | |
|--|--------------------|--|----|------------------------------|
| | 04/28/11 00:35 EST | | 1K | Thunderstorm Wind (EG 56 kt) |
| | 04/28/11 00:35 EST | | 0 | Source: NWS Storm Survey |

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|---|--------------------|-------------------|---------------------|--------------------------------------|
| A tree was down at the intersection of Mertens Road and Oldtown Orleans road. | | | | |
| ALLEGANY COUNTY --- 2.6 W GREEN RANGE STATION [39.60, -78.48], 2.5 W GREEN RANGE STATION [39.60, -78.48] | | | | |
| | 04/28/11 00:35 EST | | 5K | Tornado (EF0, L: 0.55 mi , W: 75 yd) |
| | 04/28/11 00:35 EST | | 0 | Source: NWS Storm Survey |
| Numerous trees were uprooted and/or topped in a small area of Mertens Road. Tree canopies showed evidence of convergent flow near the damage track. | | | | |
| FREDERICK COUNTY --- 1.8 N JEFFERSON [39.40, -77.52] | | | | |
| | 04/28/11 04:17 EST | | 2K | Thunderstorm Wind (EG 56 kt) |
| | 04/28/11 04:17 EST | | 0 | Source: Emergency Manager |
| Trees were down near Poole Road and Holter Road. | | | | |
| MONTGOMERY COUNTY --- 0.1 N POOLESVILLE [39.15, -77.42], 0.9 NE POOLESVILLE [39.16, -77.41] | | | | |
| | 04/28/11 05:45 EST | | 2K | Tornado (EF0, L: 0.76 mi , W: 50 yd) |
| | 04/28/11 05:47 EST | | 0 | Source: NWS Storm Survey |
| Spotty tree damage was observed along a track on Beallsville Road, Elgin Road and Jerusalem Road. A trampoline was lofted and deposited atop a power pole with adjacent damage to a fence and a small tree. | | | | |
| MONTGOMERY COUNTY --- 0.3 SSE BARNESVILLE [39.22, -77.38] | | | | |
| | 04/28/11 05:49 EST | | 2K | Thunderstorm Wind (EG 52 kt) |
| | 04/28/11 05:49 EST | | 0 | Source: Emergency Manager |
| Trees were down over Route 109. | | | | |
| MONTGOMERY COUNTY --- 0.4 ESE BEALLSVILLE [39.18, -77.41] | | | | |
| | 04/28/11 05:49 EST | | 1K | Thunderstorm Wind (EG 50 kt) |
| | 04/28/11 05:49 EST | | 0 | Source: Emergency Manager |
| Multiple trees were down in Beallsville. | | | | |
| MONTGOMERY COUNTY --- 1.4 NNE BEALLSVILLE [39.20, -77.41] | | | | |
| | 04/28/11 05:49 EST | | 1K | Thunderstorm Wind (EG 50 kt) |
| | 04/28/11 05:49 EST | | 0 | Source: Emergency Manager |
| Trees were down along Big Woods Road. | | | | |
| FREDERICK COUNTY --- 1.6 NNW BARTHOLOW [39.39, -77.24] | | | | |
| | 04/28/11 06:20 EST | | 0 | Thunderstorm Wind (MG 55 kt) |
| | 04/28/11 06:20 EST | | 0 | Source: Trained Spotter |
| A wind gust of 63 mph was reported near New Market. | | | | |
| CARROLL COUNTY --- 0.9 SSW CRANBERRY STATION [39.57, -76.99], 0.3 SW CRANBERRY STATION [39.58, -76.98] | | | | |
| | 04/28/11 06:37 EST | | 5K | Tornado (EF0, L: 0.66 mi , W: 50 yd) |
| | 04/28/11 06:38 EST | | 0 | Source: NWS Storm Survey |
| A tornado tracked from near Old Westminster Pike across Ralph and Center Streets before lifting as it crossed Route 97. The tornado uprooted and snapped several trees and large branches. | | | | |
| BALTIMORE COUNTY --- 2.1 NNW TRENTON [39.61, -76.83], 1.9 WNW WHITEHOUSE [39.61, -76.81] | | | | |
| | 04/28/11 07:09 EST | | 5K | Tornado (EF0, L: 1.12 mi , W: 50 yd) |
| | 04/28/11 07:11 EST | | 0 | Source: NWS Storm Survey |
| A tornado tracked along Mt. Carmel Road for 1.1 miles. The tornado snapped and uprooted several trees. Large branches were also down due to the tornado. | | | | |
| BALTIMORE COUNTY --- 1.3 NNW EVNA [39.60, -76.70], 1.3 N EVNA [39.60, -76.70] | | | | |
| | 04/28/11 08:54 EST | | 1K | Tornado (EF0, L: 1.12 mi , W: 75 yd) |
| | 04/28/11 08:54 EST | | 0 | Source: County Official |

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|--|--------------------|-------------------|---------------------|---------------------------------------|
| An aerial survey conducted by Baltimore county showed that a tornado touched down briefly just north of Evna Road in a heavily wooded area. The tornado snapped and uprooted about two dozen trees and down large branches. | | | | |
| ANNE ARUNDEL COUNTY --- 0.4 SE BEVERLY BEACH [38.88, -76.51] | | | | |
| | 04/28/11 10:25 EST | | 0.50K | Thunderstorm Wind (EG 52 kt) |
| | 04/28/11 10:25 EST | | 0 | Source: Public |
| A large hardwood limb was snapped near Rhode River. | | | | |
| ST. MARY'S COUNTY --- 1.0 WSW ABELLS WHARF [38.26, -76.67], 0.8 ESE LEONARDTOWN [38.29, -76.62] | | | | |
| | 04/28/11 10:25 EST | | 35K | Tornado (EF1, L: 3.37 mi , W: 150 yd) |
| | 04/28/11 10:29 EST | | 0 | Source: NWS Storm Survey |
| A tornado tracked across Breton Bay uprooting and snapping numerous large trees. Home roofing and siding damage also occurred. A cinder block wall was blown out from a storage shed. The tornado also passed over Camp Calvert. | | | | |
| CALVERT COUNTY --- 0.9 WSW APPEAL [38.37, -76.47], 0.5 W BERTHA [38.38, -76.44] | | | | |
| | 04/28/11 10:41 EST | | 7K | Tornado (EF0, L: 1.71 mi , W: 50 yd) |
| | 04/28/11 10:43 EST | | 0 | Source: NWS Storm Survey |
| A tornado touched down near the intersection of Hilltop Road and Coster Road. About a dozen trees were uprooted along with several large branches. | | | | |
| A strong cold front slowly passed through the region during the morning and early afternoon hours of the 28th. A southerly flow ahead of the front caused deep moisture over the area. The deep moisture combined with a mid-level trough to produce moderate amounts of instability. The cold front combined with the instability to trigger showers and thunderstorms. Some thunderstorms were able to mix down strong winds from aloft. | | | | |
| Low level wind speed and direction changed rapidly with height causing tornadoes to develop in some of the stronger thunderstorms. | | | | |
| WASHINGTON COUNTY --- 0.5 WSW ROXBURY [39.57, -77.73], 0.7 WSW ROXBURY [39.57, -77.73], 0.7 WSW ROXBURY [39.57, -77.73], 0.5 WNW ROXBURY [39.57, -77.73], 0.3 NW ROXBURY [39.57, -77.72] | | | | |
| | 04/28/11 02:40 EST | | 0 | Flash Flood (due to Heavy Rain) |
| | 04/28/11 06:30 EST | | 0 | Source: State Official |
| Water was over Route 65 at Roxbury Road. A rain gage near the event measured 2.43 inches. | | | | |
| WASHINGTON COUNTY --- 1.0 SSW SECURITY [39.64, -77.71], 1.0 SSW SECURITY [39.64, -77.70], 0.6 SSW SECURITY [39.64, -77.70], 0.8 SW SECURITY [39.64, -77.71] | | | | |
| | 04/28/11 04:45 EST | | 0 | Flash Flood (due to Heavy Rain) |
| | 04/28/11 09:00 EST | | 0 | Source: Newspaper |
| A golf center and driving range were flooded. A rain gage in the area tallied 2.68 inches. | | | | |
| WASHINGTON COUNTY --- 1.7 S PONDSVILLE [39.60, -77.60], 1.5 S PONDSVILLE [39.60, -77.60], 1.8 SW PONDSVILLE [39.60, -77.63], 1.9 NE BEAVER CREEK [39.60, -77.63] | | | | |
| | 04/28/11 05:00 EST | | 0 | Flash Flood (due to Heavy Rain) |
| | 04/28/11 09:00 EST | | 0 | Source: Trained Spotter |
| A creek was flowing across the road at Mount Aetna Road and County Road 66. | | | | |
| FREDERICK COUNTY --- 0.7 N LIBERTYTOWN [39.49, -77.25], 0.8 NE LIBERTYTOWN [39.49, -77.24], 0.5 ENE LIBERTYTOWN [39.48, -77.24], 0.3 NE LIBERTYTOWN [39.48, -77.25] | | | | |
| | 04/28/11 07:30 EST | | 0 | Flash Flood (due to Heavy Rain) |
| | 04/28/11 10:30 EST | | 0 | Source: Newspaper |
| Route 26 and North and South Streets were flooded and closed between Route 75 and Trammels Alley. A rain gage near the event observed 1.75 inches. | | | | |
| FREDERICK COUNTY --- 0.9 SW REELS MILL [39.36, -77.39], 0.7 SSW REELS MILL [39.36, -77.38], 0.3 SSW REELS MILL [39.37, -77.38], 0.6 WNW REELS MILL [39.37, -77.39], 0.8 W REELS MILL [39.37, -77.39] | | | | |
| | 04/28/11 07:30 EST | | 0 | Flash Flood (due to Heavy Rain) |
| | 04/28/11 10:30 EST | | 0 | Source: Newspaper |
| Maryland State Route 355 was flooded and closed at Ball Road near the the Monocacy Battlefield. A rain gage near the event measured 2.30 inches. | | | | |

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|--|--------------------|-------------------|---------------------|---------------------------------|
| CARROLL COUNTY --- 2.1 NNE WESTMINSTER ARPT [39.63, -76.99], 2.4 NNE WESTMINSTER ARPT [39.63, -76.99], 2.6 SW BACHMANS MILLS [39.64, -76.98], 2.7 S DEEP RUN [39.64, -76.99], 2.4 N WESTMINSTER ARPT [39.63, -76.99] | | | | |
| | 04/28/11 08:30 EST | | 0 | Flash Flood (due to Heavy Rain) |
| | 04/28/11 12:00 EST | | 0 | Source: Trained Spotter |
| Bear Branch Creek was out of its banks. A nearby rain gage measured 2.40". | | | | |
| FREDERICK COUNTY --- 1.4 N EMMITSBURG [39.72, -77.33], 1.4 N EMMITSBURG [39.72, -77.33], 1.3 N EMMITSBURG [39.72, -77.33], 1.3 N EMMITSBURG [39.72, -77.33] | | | | |
| | 04/28/11 09:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/28/11 16:00 EST | | 0 | Source: Newspaper |
| Irishtown Road was closed at the creek near the Pennsylvania line due to flooding. | | | | |
| WASHINGTON COUNTY --- 0.4 W LEITERSBURG [39.70, -77.63], 0.9 SSE LEITERSBURG [39.69, -77.62], 1.1 S LEITERSBURG [39.68, -77.62], 0.5 WSW LEITERSBURG [39.70, -77.63] | | | | |
| | 04/28/11 09:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/28/11 16:00 EST | | 0 | Source: Newspaper |
| Antietam and Little Antietam Creeks were out of their banks. Rainfall amounts of 1.81 were measured near the event. | | | | |
| FREDERICK COUNTY --- 1.8 NE JOHNSVILLE [39.55, -77.21], 3.5 ENE JOHNSVILLE [39.55, -77.17], 5.6 NE JOHNSVILLE [39.58, -77.15], 4.5 E LADIESBURG [39.59, -77.19] | | | | |
| | 04/28/11 11:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/28/11 18:00 EST | | 0 | Source: Newspaper |
| Two roads were closed in the Union Bridge area. | | | | |
| A strong cold front slowly passed through the region during the morning of the 28th A southerly flow ahead of the front caused deep moisture over the area. The cold front combined with the instability to trigger showers and thunderstorms with very heavy rainfall rates. Slow moving and training convection combined to produce flash flooding in some locations, as over 3.5 inches of rain fell in spots. | | | | |
| VIRGINIA, North | | | | |
| PRINCE WILLIAM COUNTY --- 1.3 W MINNIEVILLE [38.63, -77.37] | | | | |
| | 04/02/11 14:23 EST | | 0 | Hail (1.00 in) |
| | 04/02/11 14:23 EST | | 0 | Source: Public |
| Quarter sized hail was reported near Dale City. | | | | |
| A mid-level trough of low pressure provided enough instability for isolated showers and thunderstorms on the 2nd. There was enough cold air aloft for an isolated thunderstorm to produce large hail. | | | | |
| NELSON COUNTY --- LOVINGSTON [37.77, -78.88] | | | | |
| | 04/05/11 02:00 EST | | 2K | Thunderstorm Wind (EG 50 kt) |
| | 04/05/11 02:00 EST | | 0 | Source: County Official |
| Trees were down in Lovingston. | | | | |
| CHARLOTTESVILLE (C) COUNTY --- 2.6 NNE CHARLOTTESVILLE [38.06, -78.48] | | | | |
| | 04/05/11 02:25 EST | | 1K | Thunderstorm Wind (EG 50 kt) |
| | 04/05/11 02:25 EST | | 0 | Source: Fire Department/Rescue |
| A tree was down on wires in Charlottesville. | | | | |
| FAUQUIER COUNTY --- 0.7 NNW SILVER HILL [38.49, -77.68] | | | | |
| | 04/05/11 02:58 EST | | 1K | Thunderstorm Wind (EG 52 kt) |
| | 04/05/11 02:58 EST | | 0 | Source: Fire Department/Rescue |
| A large tree was uprooted along Route 17 and Stribling Road. | | | | |

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|--|--------------------|-------------------|---------------------|---------------------------------|
| SPOTSYLVANIA COUNTY --- 2.1 SSW SNELL [38.12, -77.62] | | | | |
| | 04/05/11 03:12 EST | | 1K | Thunderstorm Wind (EG 52 kt) |
| | 04/05/11 03:12 EST | | 0 | Source: Fire Department/Rescue |
| A tree was down near Snell. | | | | |
| SPOTSYLVANIA COUNTY --- 0.3 ESE FOUR MILE FORK [38.25, -77.47] | | | | |
| | 04/05/11 03:16 EST | | 1K | Thunderstorm Wind (EG 56 kt) |
| | 04/05/11 03:16 EST | | 0 | Source: Trained Spotter |
| A tree was down near Fredericksburg. | | | | |
| PRINCE WILLIAM COUNTY --- 0.9 NNW (NYG)MCAS QUANTICO [38.51, -77.30] | | | | |
| | 04/05/11 03:24 EST | | 0 | Thunderstorm Wind (MG 52 kt) |
| | 04/05/11 03:24 EST | | 0 | Source: AWOS |
| A wind gust of 60 mph was measured at Quantico. | | | | |
| KING GEORGE COUNTY --- 0.4 NE AMBAR [38.32, -77.18] | | | | |
| | 04/05/11 03:33 EST | | 10K | Thunderstorm Wind (EG 56 kt) |
| | 04/05/11 03:33 EST | | 0 | Source: Trained Spotter |
| Trees fell onto cars along Caledon and Indiantown Roads. | | | | |
| KING GEORGE COUNTY --- 2.8 NE DAHLGREN [38.36, -77.02] | | | | |
| | 04/05/11 03:43 EST | | 0 | Thunderstorm Wind (MG 50 kt) |
| | 04/05/11 03:43 EST | | 0 | Source: Mesonet |
| A wind gust of 58 mph was measured at the Potomac River Bridge. | | | | |
| <p>A strong cold front slowly traced through the area during the morning hours of the 5th. A southerly flow ahead of the front caused copious amounts of moisture to move into the region from the Atlantic Ocean and Gulf of Mexico. The deep moisture combined with a mid-level trough that was associated with the cold front to produce moderate amounts of instability. Lift from the cold front along with moderate instability triggered showers and thunderstorms across the area.</p> <p>Thunderstorms were able to mix down strong winds from aloft causing damaging wind gusts.</p> | | | | |
| HIGHLAND COUNTY --- VANDERPOOL [38.37, -79.62], 1.7 NE MUSTOE [38.34, -79.63], 1.5 NNE MUSTOE [38.34, -79.64], 0.4 WNW VANDERPOOL [38.37, -79.63] | | | | |
| | 04/12/11 14:30 EST | | 0 | Flash Flood (due to Heavy Rain) |
| | 04/12/11 19:45 EST | | 0 | Source: Law Enforcement |
| Route 220 south was under water near its intersection with Route 84. A rain gage near the event measured 2.90 inches. | | | | |
| HIGHLAND COUNTY --- 1.3 WNW BOLAR [38.23, -79.70], 1.4 NW BOLAR [38.23, -79.70], 1.3 NW BOLAR [38.23, -79.70], 1.2 WNW BOLAR [38.23, -79.70], 1.3 WNW BOLAR [38.23, -79.70] | | | | |
| | 04/12/11 15:00 EST | | 0 | Flash Flood (due to Heavy Rain) |
| | 04/12/11 19:45 EST | | 0 | Source: Law Enforcement |
| Water over the roadway. | | | | |
| HIGHLAND COUNTY --- BOLAR [38.22, -79.68], 1.2 NW BOLAR [38.23, -79.70], 1.3 WNW BOLAR [38.23, -79.70], 0.4 WSW BOLAR [38.22, -79.69] | | | | |
| | 04/12/11 15:00 EST | | 0 | Flash Flood (due to Heavy Rain) |
| | 04/12/11 19:45 EST | | 0 | Source: Law Enforcement |
| Water was over the road at Big Valley Road and Little Valley Road. A cooperative observer near the event recorded 2.16 inches of rainfall. | | | | |
| AUGUSTA COUNTY --- 2.1 SSE CENTERVILLE [38.30, -78.99], 2.2 SSE CENTERVILLE [38.30, -78.98], 2.5 SSE CENTERVILLE [38.30, -78.98], 2.4 SSE CENTERVILLE [38.30, -78.99] | | | | |
| | 04/12/11 18:15 EST | | 0 | Flash Flood (due to Heavy Rain) |
| | 04/12/11 20:00 EST | | 0 | Source: State Official |

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|---|--------------------|----------------------|------------------------|---------------------------------|
| Water over a bridge on Roman Road. | | | | |
| MADISON COUNTY --- PRATTS [38.35, -78.27], 0.1 E PRATTS [38.35, -78.27], 0.4 S PRATTS [38.34, -78.27], 0.4 SSW PRATTS [38.34, -78.27] | | | | |
| | 04/12/11 20:00 EST | 0 | | Flash Flood (due to Heavy Rain) |
| | 04/12/11 23:00 EST | 0 | | Source: Department of Highways |
| Water was over Route 231 south near Route 626. A trained spotter in the vicinity observed 1.50 inches of rain. | | | | |
| ROCKINGHAM COUNTY --- 0.9 SW PINEVILLE [38.34, -78.81], 0.9 SW PINEVILLE [38.34, -78.81], 1.0 WSW PINEVILLE [38.34, -78.82], 1.0 SW PINEVILLE [38.34, -78.81] | | | | |
| | 04/12/11 20:00 EST | 0 | | Flash Flood (due to Heavy Rain) |
| | 04/12/11 23:45 EST | 0 | | Source: State Official |
| Charlie Town Road closed due to flash flood on Mill Creek. | | | | |
| ROCKINGHAM COUNTY --- 3.0 NNE ROCKY BAR [38.39, -78.66], 2.6 SW ELKTON [38.39, -78.65], 2.5 SW ELKTON [38.39, -78.65], 2.8 SW ELKTON [38.39, -78.66] | | | | |
| | 04/12/11 20:00 EST | 0 | | Flash Flood (due to Heavy Rain) |
| | 04/12/11 23:45 EST | 0 | | Source: State Official |
| Two feet of running water was observed on Model Road. | | | | |
| ROCKINGHAM COUNTY --- 3.3 WSW ELKTON [38.41, -78.68], 2.9 WSW ELKTON [38.41, -78.67], 3.0 W ELKTON [38.41, -78.67], 3.2 W ELKTON [38.41, -78.68] | | | | |
| | 04/12/11 20:30 EST | 0 | | Flash Flood (due to Heavy Rain) |
| | 04/12/11 23:45 EST | 0 | | Source: State Official |
| Bloomer Springs Road near Resort Drive closed due to running water. | | | | |
| <p>Low pressure both at the surface and the upper levels of the atmosphere passed through the region on the 12th. Showers and thunderstorms developed across the area. Despite relatively dry antecedent conditions, an unusually moist atmosphere combined with significant lift produce high rainfall rates sufficient for flash flooding across the Potomac Highlands and portions of the Shenandoah Valley. Rainfall amounts of up to 3 inches in a several hour period were observed.</p> | | | | |
| AUGUSTA COUNTY --- 1.6 SSW FORDWICK [38.05, -79.38] | | | | |
| | 04/12/11 16:25 EST | 0 | | Hail (1.00 in) |
| | 04/12/11 16:35 EST | 0 | | Source: Public |
| Hail up to the size of quarters was reported near Craigsville. | | | | |
| AUGUSTA COUNTY --- 0.8 ENE CRAIGSVILLE [38.08, -79.37] | | | | |
| | 04/12/11 16:38 EST | 0 | | Hail (1.00 in) |
| | 04/12/11 16:45 EST | 0 | | Source: Public |
| Quarter sized hail was reported along Lehigh Road. Hail covered the ground. | | | | |
| ROCKINGHAM COUNTY --- 0.9 SE ELKTON [38.41, -78.61] | | | | |
| | 04/12/11 17:43 EST | 0 | | Hail (1.00 in) |
| | 04/12/11 17:43 EST | 0 | | Source: Public |
| Hail up to the size of quarters was reported near Elkton. | | | | |
| ROCKINGHAM COUNTY --- 1.1 S FURNACE [38.43, -78.57] | | | | |
| | 04/12/11 17:53 EST | 0 | | Hail (1.00 in) |
| | 04/12/11 17:53 EST | 0 | | Source: Public |
| Hail up to the size of quarters was reported near Elkton. | | | | |
| ROCKINGHAM COUNTY --- 1.2 SW FURNACE [38.44, -78.58] | | | | |
| | 04/12/11 17:54 EST | 0 | | Hail (1.00 in) |
| | 04/12/11 17:54 EST | 0 | | Source: Public |
| Hail up to the size of quarters was reported along Red Brush Road. | | | | |

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|---|--------------------|----------------------|------------------------|--------------------------------|
| AUGUSTA COUNTY --- 2.5 NNE CRIMORA [38.18, -78.83] | | | | |
| | 04/12/11 18:00 EST | | 0 | Hail (1.25 in) |
| | 04/12/11 18:00 EST | | 0 | Source: Public |
| Half dollar sized hail was reported near Crimora. | | | | |
| Low pressure both at the surface and the upper levels of the atmosphere passed through the region on the 12th. There was enough cold air aloft and forcing from this system for showers and thunderstorms to develop. There was enough instability for a few thunderstorms to produce large hail. | | | | |
| CLARKE COUNTY --- 1.4 N DOUBLE TOLLGATE [39.07, -78.13], 1.7 NNW DOUBLE TOLLGATE [39.07, -78.14], 1.8 NNW DOUBLE TOLLGATE [39.08, -78.14], 1.6 N DOUBLE TOLLGATE [39.07, -78.13] | | | | |
| | 04/14/11 08:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/14/11 15:00 EST | | 0 | Source: Department of Highways |
| Nations Spring Road was closed due to flooding on Wrights Run. | | | | |
| CLARKE COUNTY --- 1.5 SSW WADESVILLE [39.23, -78.04], 2.4 SW WADESVILLE [39.22, -78.06], 2.7 SW WADESVILLE [39.22, -78.07], 1.9 SW WADESVILLE [39.23, -78.06] | | | | |
| | 04/14/11 08:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/14/11 15:00 EST | | 0 | Source: Department of Highways |
| Old Charles Town Road was closed due to flooding on Opequon Creek. | | | | |
| FREDERICK COUNTY --- 0.5 W SILER [39.35, -78.26], 0.4 SW SILER [39.35, -78.25], 0.3 NE SILER [39.35, -78.25], 0.3 NNW SILER [39.35, -78.25] | | | | |
| | 04/14/11 08:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/14/11 15:00 EST | | 0 | Source: Department of Highways |
| Route 689 was closed between Bucksaw Lane and Brush Creek Road due to flooding. | | | | |
| FREDERICK COUNTY --- 1.6 W GREEN SPG [39.30, -78.20], 0.7 WSW GREEN SPG [39.30, -78.18], 1.0 SW GREEN SPG [39.29, -78.18], 1.6 N CEDAR GROVE [39.29, -78.20] | | | | |
| | 04/14/11 08:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/14/11 15:00 EST | | 0 | Source: Department of Highways |
| Route 731 was closed between Cedar Grove Road and Hunting Ridge Road due to flooding. | | | | |
| FREDERICK COUNTY --- 1.6 WNW GREEN SPG [39.31, -78.20], 0.9 NNW GREEN SPG [39.31, -78.18], 0.7 NNW GREEN SPG [39.31, -78.18], 1.4 WNW GREEN SPG [39.31, -78.19] | | | | |
| | 04/14/11 08:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/14/11 15:00 EST | | 0 | Source: Department of Highways |
| Route 682 was closed between Hunting Ridge Road and Green Spring Road due to flooding. | | | | |
| FREDERICK COUNTY --- 1.8 ESE SILER [39.34, -78.22], 1.9 E SILER [39.35, -78.21], 1.5 E SILER [39.35, -78.22], 1.6 SE SILER [39.33, -78.23] | | | | |
| | 04/14/11 08:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/14/11 15:00 EST | | 0 | Source: Department of Highways |
| Route 681 was closed between Howards Chapel Road and Light Road due to flooding. | | | | |
| FREDERICK COUNTY --- 1.8 NE WHITACRE [39.35, -78.31], 1.4 NE WHITACRE [39.34, -78.31], 2.2 NNE WHITACRE [39.36, -78.32], 2.3 NNE WHITACRE [39.36, -78.31] | | | | |
| | 04/14/11 08:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/14/11 15:00 EST | | 0 | Source: Department of Highways |
| Route 699 was closed due to flooding. | | | | |
| FREDERICK COUNTY --- 2.3 ENE HAYFIELD [39.24, -78.26], 1.9 W NAIN [39.23, -78.24], 1.8 NNE ROUND HILL [39.22, -78.24], 1.2 ENE HAYFIELD [39.24, -78.28], 1.7 NE HAYFIELD [39.25, -78.27], 2.1 ENE HAYFIELD [39.25, -78.27] | | | | |
| | 04/14/11 08:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/14/11 15:00 EST | | 0 | Source: Department of Highways |

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|---|--------------------|-------------------|---------------------|--------------------------------|
| Route 679 was closed between Hayfield Road and Dicks Hollow Road due to flooding on Hogue Creek. | | | | |
| FREDERICK COUNTY --- 2.8 N SILER [39.39, -78.25], 3.2 N SILER [39.40, -78.25], 3.3 N SILER [39.40, -78.25], 2.8 N SILER [39.39, -78.25] | | | | |
| | 04/14/11 08:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/14/11 15:00 EST | | 0 | Source: Department of Highways |
| Route 692 was closed due to flooding. | | | | |
| FREDERICK COUNTY --- 4.7 NNW SILER [39.42, -78.27], 5.0 NNW SILER [39.42, -78.28], 4.2 NW SILER [39.40, -78.30], 3.9 NW SILER [39.39, -78.30], 4.0 NNW SILER [39.40, -78.28] | | | | |
| | 04/14/11 08:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/14/11 13:00 EST | | 0 | Source: Department of Highways |
| Route 695 was closed between Route 522 and the West Virginia state line due to flooding. | | | | |
| SHENANDOAH COUNTY --- 0.7 S FAIRMONT SCHOOL [39.02, -78.47], 0.8 SE FAIRMONT SCHOOL [39.02, -78.46], 1.0 ESE FAIRMONT SCHOOL [39.02, -78.45], 0.7 ESE FAIRMONT SCHOOL [39.03, -78.46], 0.4 S FAIRMONT SCHOOL [39.02, -78.47] | | | | |
| | 04/14/11 08:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/14/11 15:00 EST | | 0 | Source: Department of Highways |
| Route 759 was closed at Cedar Creek Road. | | | | |
| SHENANDOAH COUNTY --- 0.7 S ST LUKE [38.89, -78.58], 1.0 S ST LUKE [38.89, -78.58], 1.0 SSW ST LUKE [38.89, -78.58], 0.8 SSW ST LUKE [38.89, -78.58] | | | | |
| | 04/14/11 08:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/14/11 15:00 EST | | 0 | Source: Department of Highways |
| Route 679 was closed due to flooding. | | | | |
| SHENANDOAH COUNTY --- 0.9 NE WILLOW GROVE [38.84, -78.52], 0.9 NNW WILLOW GROVE [38.84, -78.54], 1.2 N WILLOW GROVE [38.85, -78.53], 0.9 NNE WILLOW GROVE [38.84, -78.52] | | | | |
| | 04/14/11 08:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/14/11 15:00 EST | | 0 | Source: Department of Highways |
| Route 672 was closed due to flooding on the North Fork Shenandoah River. | | | | |
| SHENANDOAH COUNTY --- 0.9 NW CALVARY [38.88, -78.56], 1.1 NW CALVARY [38.88, -78.57], 1.3 NNW CALVARY [38.89, -78.56], 1.2 NNW CALVARY [38.89, -78.56] | | | | |
| | 04/14/11 08:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/14/11 15:00 EST | | 0 | Source: Department of Highways |
| Route 682 was closed due to flooding. | | | | |
| SHENANDOAH COUNTY --- 0.9 SE JEROME [38.86, -78.71], 0.4 SSE JEROME [38.86, -78.72], 0.6 S JEROME [38.86, -78.72], 0.8 SSE JEROME [38.86, -78.71] | | | | |
| | 04/14/11 08:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/14/11 13:00 EST | | 0 | Source: Department of Highways |
| Intersection of Routes 611 and 701 was closed due to flooding. | | | | |
| SHENANDOAH COUNTY --- 1.8 ESE WOODSTOCK [38.87, -78.49], 1.6 ESE WOODSTOCK [38.87, -78.49], 1.4 ESE WOODSTOCK [38.87, -78.50], 1.5 ESE WOODSTOCK [38.87, -78.49] | | | | |
| | 04/14/11 08:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/14/11 15:00 EST | | 0 | Source: Department of Highways |
| Lupton Road was closed due to flooding on North Fork Shenandoah River. | | | | |
| SHENANDOAH COUNTY --- 1.8 SE MAURERTOWN [38.91, -78.43], 1.9 SE MAURERTOWN [38.91, -78.42], 2.1 SE MAURERTOWN [38.91, -78.43], 2.0 SSE MAURERTOWN [38.91, -78.43] | | | | |
| | 04/14/11 08:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/14/11 15:00 EST | | 0 | Source: Department of Highways |

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|--|--------------------|-------------------|---------------------|---------------------------------------|
| Route 600 was closed due to flooding on North Fork Shenandoah River. | | | | |
| SHENANDOAH COUNTY --- 1.8 SE WOODSTOCK [38.86, -78.50], 1.8 SE WOODSTOCK [38.86, -78.50], 1.7 SE WOODSTOCK [38.86, -78.50], 1.7 SE WOODSTOCK [38.86, -78.50] | | | | |
| | 04/14/11 08:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/14/11 15:00 EST | | 0 | Source: Department of Highways |
| Route 609 was closed at the North Fork Shenandoah River. | | | | |
| SHENANDOAH COUNTY --- 2.1 S FISHERS HILL [38.95, -78.38], 2.0 S FISHERS HILL [38.95, -78.39], 1.5 S FISHERS HILL [38.96, -78.39], 1.5 S FISHERS HILL [38.96, -78.38] | | | | |
| | 04/14/11 08:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/14/11 15:00 EST | | 0 | Source: Department of Highways |
| Bethel Road was closed due to flooding on the North Fork Shenandoah River. | | | | |
| SHENANDOAH COUNTY --- 2.2 E QUICKSBURG [38.68, -78.64], 2.4 E QUICKSBURG [38.67, -78.64], 2.2 NE NEW MARKET [38.67, -78.64], 2.0 E QUICKSBURG [38.68, -78.64] | | | | |
| | 04/14/11 08:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/14/11 15:00 EST | | 0 | Source: Department of Highways |
| Route 620 was closed between Cedar Lane and Cardinal Road. | | | | |
| SHENANDOAH COUNTY --- 2.3 SSE SAUMSVILLE [38.90, -78.48], 2.2 SE SAUMSVILLE [38.90, -78.48], 2.0 SSE SAUMSVILLE [38.90, -78.48], 2.2 SSE SAUMSVILLE [38.90, -78.48] | | | | |
| | 04/14/11 08:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/14/11 15:00 EST | | 0 | Source: Department of Highways |
| Artz Road was closed due to flooding on North Fork Shenandoah River. | | | | |
| WARREN COUNTY --- 0.4 N FRONT ROYAL ARPT [38.96, -78.12], 0.6 NW FRONT ROYAL ARPT [38.96, -78.13], 1.1 ESE ROCKLAND [38.98, -78.13], 1.7 SSW MILLEDALE [38.98, -78.12] | | | | |
| | 04/14/11 08:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/14/11 15:00 EST | | 0 | Source: Department of Highways |
| Route 624 was closed from Howellsville Road to Fairground Road. | | | | |
| WARREN COUNTY --- 0.5 W BENTONVILLE [38.83, -78.33], 0.3 NNW BENTONVILLE [38.83, -78.32], 1.0 NNW BENTONVILLE [38.84, -78.33], 1.1 NW BENTONVILLE [38.84, -78.33] | | | | |
| | 04/14/11 08:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/14/11 15:00 EST | | 0 | Source: Department of Highways |
| Route 613S was closed from Indian Hollow Road to Wilson Burke Road. | | | | |
| Strong southerly flow at the low levels brought northward a highly moist atmosphere from the Gulf of Mexico into the Mid-Atlantic. Widespread moderate to heavy rain developed in advance of a slow moving cold front on the morning of the 14th, causing flooding. | | | | |
| AUGUSTA COUNTY --- 2.6 ENE CHURCHVILLE [38.25, -79.11] | | | | |
| | 04/16/11 12:42 EST | | 3K | Thunderstorm Wind (EG 52 kt) |
| | 04/16/11 12:42 EST | | 0 | Source: Public |
| Four to five large trees were down along Moffett Branch Road. Trees were about twenty feet high. | | | | |
| ROCKINGHAM COUNTY --- 4.1 SSW ATHLONE [38.47, -78.73] | | | | |
| | 04/16/11 13:15 EST | | 1K | Thunderstorm Wind (EG 52 kt) |
| | 04/16/11 13:15 EST | | 0 | Source: Fire Department/Rescue |
| A few trees were down about five miles north of Massanutten. | | | | |
| AUGUSTA COUNTY --- 0.5 ESE WILDA [38.02, -79.07], 2.3 N STUARTS DRAFT [38.06, -79.03] | | | | |
| | 04/16/11 13:20 EST | | 2.20M | Tornado (EF0, L: 3.81 mi , W: 200 yd) |
| | 04/16/11 13:23 EST | | 0 | Source: NWS Storm Survey |

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|---|-----------|-------------------|---------------------|------------------------|
| A tornado tracked just west of Stuarts Draft. The tornado produced damage to thirty-seven structures and also downed numerous trees and powerlines. | | | | |
| Numerous trees were toppled and wires were down along Old White Hill Road. A large tree fell onto a house off White Hall Road. A large storage shed was destroyed and multiple hardwood trees were topped ten to fifteen feet up near Twin Mill and Churchmans Mill Roads. A farm building along Tinkling Spring Road and Yoder Circle lost several outbuildings and trees. | | | | |
| Preliminary damage estimates from Augusty County Emergency Officials listed storm damage to twelve residences, three businesses, fifteen garage sheds, two mobile strutures and five barns. Preliminary damage cost was estimated at over 2.2 million dollars. | | | | |

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

| | | |
|--------------------|---|------------------------------|
| 04/16/11 13:44 EST | 0 | Thunderstorm Wind (MG 59 kt) |
| 04/16/11 13:44 EST | 0 | Source: Mesonet |

A wind gust of 68 mph was reported at Wintergreen.

ROCKINGHAM COUNTY --- 1.0 ESE GROTTOS [38.26, -78.81]

| | | |
|--------------------|----|------------------------------|
| 04/16/11 13:45 EST | 5K | Thunderstorm Wind (EG 61 kt) |
| 04/16/11 13:45 EST | 0 | Source: Trained Spotter |

Trees were down and a small building was damaged near Grottoes.

WARREN COUNTY --- 1.2 SSE BENTONVILLE [38.82, -78.31]

| | | |
|--------------------|----|--------------------------------|
| 04/16/11 13:46 EST | 2K | Thunderstorm Wind (EG 61 kt) |
| 04/16/11 13:46 EST | 0 | Source: Fire Department/Rescue |

Power poles were down on Whispering Pine Lane.

FREDERICK COUNTY --- 1.6 SE MT PLEASANT [39.16, -78.28]

| | | |
|--------------------|----|--------------------------------|
| 04/16/11 13:53 EST | 2K | Thunderstorm Wind (EG 50 kt) |
| 04/16/11 13:53 EST | 0 | Source: Fire Department/Rescue |

Trees were down onto wires along Perry Road.

ALBEMARLE COUNTY --- 1.1 SE GREENWOOD [38.04, -78.76]

| | | |
|--------------------|---|--------------------------------|
| 04/16/11 13:59 EST | 0 | Thunderstorm Wind (EG 52 kt) |
| 04/16/11 13:59 EST | 0 | Source: Fire Department/Rescue |

A tree was down along the road.

ALBEMARLE COUNTY --- 1.8 E WHITE HALL [38.12, -78.64]

| | | |
|--------------------|----|--------------------------------|
| 04/16/11 14:11 EST | 1K | Thunderstorm Wind (EG 52 kt) |
| 04/16/11 14:11 EST | 0 | Source: Fire Department/Rescue |

A tree was down at the intersection of Garth Road and Lake Albemarle Road.

CLARKE COUNTY --- 0.8 NNE BRIGGS [39.11, -78.01]

| | | |
|--------------------|----|--------------------------------|
| 04/16/11 14:14 EST | 1K | Thunderstorm Wind (EG 52 kt) |
| 04/16/11 14:14 EST | 0 | Source: Fire Department/Rescue |

A tree was fell onto power lines along Lord Fairfax Highway.

ALBEMARLE COUNTY --- 0.5 SSE COVESVILLE [37.87, -78.72]

| | | |
|--------------------|----|--------------------------------|
| 04/16/11 14:17 EST | 1K | Thunderstorm Wind (EG 56 kt) |
| 04/16/11 14:17 EST | 0 | Source: Fire Department/Rescue |

A tree was blocking U.S. 29.

ALBEMARLE COUNTY --- 2.2 NNW IVY [38.08, -78.62]

| | | |
|--------------------|----|--------------------------------|
| 04/16/11 14:24 EST | 1K | Thunderstorm Wind (EG 56 kt) |
| 04/16/11 14:24 EST | 0 | Source: Fire Department/Rescue |

A tree was down on power lines near Ivy.

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|--|--------------------|-------------------|---------------------|--------------------------------|
| ALBEMARLE COUNTY --- 2.9 NW SIMEON [38.00, -78.49] | | | | |
| | 04/16/11 14:25 EST | | 5K | Thunderstorm Wind (EG 61 kt) |
| | 04/16/11 14:25 EST | | 0 | Source: Trained Spotter |
| Damage was reported to the siding of a roof near Newcomb Hall. A few trees were also cracked in half. | | | | |
| ALBEMARLE COUNTY --- 2.0 SE FARMINGTON [38.03, -78.53] | | | | |
| | 04/16/11 14:33 EST | | 1K | Thunderstorm Wind (EG 56 kt) |
| | 04/16/11 14:33 EST | | 0 | Source: NWS Employee |
| A tree was down off the ramp of Fontaine Avenue on Route 29. | | | | |
| ALBEMARLE COUNTY --- 2.2 WSW RIO [38.06, -78.51] | | | | |
| | 04/16/11 14:37 EST | | 5K | Thunderstorm Wind (EG 56 kt) |
| | 04/16/11 14:37 EST | | 0 | Source: Trained Spotter |
| A tree fell onto a house along Westminster Road. | | | | |
| ALBEMARLE COUNTY --- 0.3 SW PROFFIT [38.12, -78.43] | | | | |
| | 04/16/11 14:39 EST | | 1K | Thunderstorm Wind (EG 56 kt) |
| | 04/16/11 14:39 EST | | 0 | Source: Fire Department/Rescue |
| A tree fell onto Powell Creek in Hollymead. | | | | |
| GREENE COUNTY --- 2.0 NNE STANDARDSVILLE [38.32, -78.41] | | | | |
| | 04/16/11 14:41 EST | | 10K | Thunderstorm Wind (EG 61 kt) |
| | 04/16/11 14:41 EST | | 0 | Source: Emergency Manager |
| Thirty trees were blown down at a golf course near the intersection of Madison Road and State Route 619. | | | | |
| ALBEMARLE COUNTY --- 0.8 ENE ADVANCE MILLS [38.18, -78.44] | | | | |
| | 04/16/11 14:43 EST | | 2K | Thunderstorm Wind (EG 56 kt) |
| | 04/16/11 14:43 EST | | 0 | Source: Fire Department/Rescue |
| Trees and wires were down at Frays Mill and Mill House Drive. | | | | |
| MADISON COUNTY --- 1.6 SSW SHELBY [38.30, -78.33] | | | | |
| | 04/16/11 14:45 EST | | 1K | Thunderstorm Wind (EG 56 kt) |
| | 04/16/11 14:45 EST | | 0 | Source: NWS Storm Survey |
| Two trees were down on a farm along U.S. 29. | | | | |
| MADISON COUNTY --- 0.5 NE SHELBY [38.33, -78.31] | | | | |
| | 04/16/11 14:50 EST | | 1K | Thunderstorm Wind (EG 56 kt) |
| | 04/16/11 14:50 EST | | 0 | Source: Fire Department/Rescue |
| A tree was down along Shelby Road. | | | | |
| ORANGE COUNTY --- 1.4 ESE SCUFFLETOWN [38.24, -78.28] | | | | |
| | 04/16/11 14:54 EST | | 1K | Thunderstorm Wind (EG 61 kt) |
| | 04/16/11 14:54 EST | | 0 | Source: Public |
| A large Oak Tree was down along Scuffletown Road. The tree was about twenty-eight inches wide. | | | | |
| CULPEPER COUNTY --- 2.9 NW MONUMENT MILLS [38.63, -78.04] | | | | |
| | 04/16/11 15:11 EST | | 3K | Thunderstorm Wind (EG 56 kt) |
| | 04/16/11 15:11 EST | | 0 | Source: Fire Department/Rescue |
| Trees were down along the 5000 block of Docs Road. | | | | |
| CULPEPER COUNTY --- 1.8 E WHITE SHOP [38.43, -78.04] | | | | |

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|---|--------------------|-------------------|---------------------|--------------------------------|
| | 04/16/11 15:12 EST | | 0.50K | Thunderstorm Wind (EG 50 kt) |
| | 04/16/11 15:12 EST | | 0 | Source: Trained Spotter |
| Small braches were knocked down near Winston. | | | | |
| <hr/> | | | | |
| LOUDOUN COUNTY --- 0.3 NNW HAMILTON [39.13, -77.65] | | | | |
| | 04/16/11 15:35 EST | | 1K | Thunderstorm Wind (EG 50 kt) |
| | 04/16/11 15:35 EST | | 0 | Source: Fire Department/Rescue |
| A couple of trees were down along Colonial Highway in Hamilton. | | | | |
| <hr/> | | | | |
| LOUDOUN COUNTY --- 1.6 ENE MIDDLEBURG [38.98, -77.74] | | | | |
| | 04/16/11 15:35 EST | | 1K | Thunderstorm Wind (EG 50 kt) |
| | 04/16/11 15:35 EST | | 0 | Source: Fire Department/Rescue |
| A tree and power lines were down on Foxcroft Road. | | | | |
| <hr/> | | | | |
| SPOTSYLVANIA COUNTY --- 2.6 ENE BELMONT [38.16, -77.82] | | | | |
| | 04/16/11 15:46 EST | | 1K | Thunderstorm Wind (EG 52 kt) |
| | 04/16/11 15:46 EST | | 0 | Source: Fire Department/Rescue |
| A tree fell onto a vehicle at the intersection of Stubbs Ridge Road and Lawyers Road. | | | | |
| <hr/> | | | | |
| PRINCE WILLIAM COUNTY --- 1.5 S MINNIEVILLE [38.61, -77.35] | | | | |
| | 04/16/11 17:00 EST | | 1K | Thunderstorm Wind (EG 52 kt) |
| | 04/16/11 17:00 EST | | 0 | Source: Fire Department/Rescue |
| A tree was down on Larchmont Court and Brawner Drive. | | | | |
| <hr/> | | | | |
| PRINCE WILLIAM COUNTY --- 1.0 NW WOODBRIDGE [38.66, -77.27] | | | | |
| | 04/16/11 17:10 EST | | 1K | Thunderstorm Wind (EG 52 kt) |
| | 04/16/11 17:10 EST | | 0 | Source: Fire Department/Rescue |
| A tree was down at the intersection of Millwood Drive and Horner Road. | | | | |
| <hr/> | | | | |
| WARREN COUNTY --- 1.1 W FRONT ROYAL [38.92, -78.20] | | | | |
| | 04/16/11 17:32 EST | | 0 | Hail (1.00 in) |
| | 04/16/11 17:32 EST | | 0 | Source: Public |
| Hail up to the size of quarters was reported near Front Royal. | | | | |
| <hr/> | | | | |
| WARREN COUNTY --- 2.2 NE FRONT ROYAL WARN ARP [38.95, -78.23] | | | | |
| | 04/16/11 17:34 EST | | 1K | Thunderstorm Wind (EG 52 kt) |
| | 04/16/11 17:34 EST | | 0 | Source: Fire Department/Rescue |
| A tree was blocking Punch Run Road off Strasburg Road. | | | | |
| <hr/> | | | | |
| CLARKE COUNTY --- 0.6 ESE BRIGGS [39.10, -78.01] | | | | |
| | 04/16/11 17:36 EST | | 1K | Thunderstorm Wind (EG 52 kt) |
| | 04/16/11 17:36 EST | | 0 | Source: Fire Department/Rescue |
| A tree was down on Millwood Pike. | | | | |
| <hr/> | | | | |
| CLARKE COUNTY --- 1.9 SE MILLWOOD [39.05, -78.01] | | | | |
| | 04/16/11 17:40 EST | | 1K | Thunderstorm Wind (EG 52 kt) |
| | 04/16/11 17:40 EST | | 0 | Source: Fire Department/Rescue |
| A tree was down over Route 723 near Route 50. | | | | |
| <hr/> | | | | |
| CLARKE COUNTY --- 2.9 ESE CLAYTONVILLE [39.07, -77.97] | | | | |
| | 04/16/11 17:43 EST | | 2K | Thunderstorm Wind (EG 56 kt) |
| | 04/16/11 17:43 EST | | 0 | Source: Fire Department/Rescue |

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|---|--------------------|-------------------|---------------------|--------------------------------------|
| Power poles and a transformer was down along Calmes Neck Lane. | | | | |
| LOUDOUN COUNTY --- 1.5 NW WOODBURN [39.10, -77.64] | | | | |
| | 04/16/11 18:12 EST | | 0 | Thunderstorm Wind (MG 56 kt) |
| | 04/16/11 18:12 EST | | 0 | Source: Mesonet |
| A wind gust of 65 mph was measured near Woodburn. | | | | |
| LOUDOUN COUNTY --- 1.6 NW WOODBURN [39.10, -77.64], 1.5 SSW LEESBURG [39.10, -77.56] | | | | |
| | 04/16/11 18:12 EST | | 4K | Tornado (EF0, L: 4.08 mi , W: 50 yd) |
| | 04/16/11 18:16 EST | | 0 | Source: NWS Storm Survey |
| Sporadic snapped tree limbs and a few uprooted trees were located in neighborhoods surrounding the Westpark Golf Course. A road sign was pulled from the ground and snapped along Clubhouse Drive. | | | | |
| Shingles were removed from a home near Canby Road. | | | | |
| LOUDOUN COUNTY --- 1.5 SW LEESBURG [39.10, -77.57] | | | | |
| | 04/16/11 18:16 EST | | 2K | Thunderstorm Wind (EG 56 kt) |
| | 04/16/11 18:16 EST | | 0 | Source: Trained Spotter |
| Trees were down near South King Street and Davis Avenue in Leesburg. | | | | |
| Strong low pressure over the Midwest remained cutoff from jet stream on the 16th. The warm front associated with this system passed through during the morning. Warm and moist southerly winds behind the front provided moderate amounts of instability. The instability combined with forcing from the low for showers and thunderstorms to develop. | | | | |
| There was enough instability along with strong winds aloft for some thunderstorms to become severe. | | | | |
| AUGUSTA COUNTY --- 2.7 W SPRING HILL [38.25, -79.10], 2.8 W SPRING HILL [38.25, -79.10], 2.7 ESE STOVER [38.25, -79.10], 2.9 W SPRING HILL [38.25, -79.10] | | | | |
| | 04/16/11 13:30 EST | | 0 | Flash Flood (due to Heavy Rain) |
| | 04/16/11 15:15 EST | | 0 | Source: Public |
| Moffett Branch flowing over the bridge at Moffett Branch Road. A dog had to be rescued from the stream. | | | | |
| ALBEMARLE COUNTY --- 2.6 WSW GREENWOOD [38.03, -78.81], 2.4 SW GREENWOOD [38.03, -78.81], 2.5 SW GREENWOOD [38.03, -78.81], 2.5 SW GREENWOOD [38.03, -78.81] | | | | |
| | 04/16/11 14:16 EST | | 5K | Flash Flood (due to Heavy Rain) |
| | 04/16/11 15:15 EST | | 0 | Source: Fire Department/Rescue |
| A home was structurally damaged from flash flooding near the intersection of Routes 250 and 151. A spotter near the event recorded 3 inches of rain. | | | | |
| WARREN COUNTY --- 0.9 SW FRONT ROYAL [38.91, -78.19], 1.1 SSW FRONT ROYAL [38.91, -78.19], 1.1 SSW FRONT ROYAL [38.91, -78.19], 1.0 SSW FRONT ROYAL [38.91, -78.19] | | | | |
| | 04/16/11 14:45 EST | | 25K | Flash Flood (due to Heavy Rain) |
| | 04/16/11 17:15 EST | | 0 | Source: Public |
| A bridge was washed out on Criser Road at Happy Creek. A rainfall report of 1.91 inches was received from near the event. | | | | |
| WARREN COUNTY --- 1.5 SSE FRONT ROYAL [38.90, -78.17], 2.0 SSE FRONT ROYAL [38.89, -78.17], 2.0 S FRONT ROYAL [38.89, -78.18], 1.4 SSW FRONT ROYAL [38.90, -78.19] | | | | |
| | 04/16/11 14:50 EST | | 0 | Flash Flood (due to Heavy Rain) |
| | 04/16/11 17:15 EST | | 0 | Source: Trained Spotter |
| Several people were rescued from a car in a flooded roadway. | | | | |
| WARREN COUNTY --- FRONT ROYAL [38.92, -78.18], 1.0 NNE FRONT ROYAL ARPT [38.96, -78.11], 0.6 NW CEDARVILLE [38.99, -78.19], 1.4 NE FRONT ROYAL WARN ARP [38.94, -78.23] | | | | |
| | 04/16/11 15:00 EST | | 0 | Flash Flood (due to Heavy Rain) |
| | 04/16/11 17:15 EST | | 0 | Source: State Official |

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|----------|-----------|-------------------|---------------------|------------------------|
|----------|-----------|-------------------|---------------------|------------------------|

There were numerous high water rescues between 4 and 6 pm across Warren County. Some locations of the rescues included Old Oak Lane, Stonewall Jackson Highway, and Prospect Street.

SHENANDOAH COUNTY --- LIBERTY FURNACE [38.88, -78.70], 0.6 WSW JEROME [38.87, -78.73], 0.5 E MACANIE [38.77, -78.74], 0.7 SW READUS [38.84, -78.61]

| | | | | |
|--|--------------------|--|---|--------------------------------|
| | 04/16/11 16:30 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/16/11 23:30 EST | | 0 | Source: Fire Department/Rescue |

Numerous roads closed throughout Shenandoah County, including Liberty Furnace Road.

WARREN COUNTY --- 0.8 NW FRONT ROYAL [38.93, -78.19], 0.7 NNW FRONT ROYAL [38.93, -78.19], 0.5 WNW FRONT ROYAL [38.92, -78.19], 0.6 WNW FRONT ROYAL [38.92, -78.19]

| | | | | |
|--|--------------------|--|---|---------------------------|
| | 04/16/11 16:30 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/16/11 23:30 EST | | 0 | Source: Trained Spotter |

Several locations along Happy Creek, which was out of its banks, were flooded.

WAYNESBORO (C) COUNTY --- 0.9 SSE WAYNESBORO [38.06, -78.87], 0.9 SE WAYNESBORO [38.06, -78.87], 0.9 SE WAYNESBORO [38.06, -78.87], 0.9 SSE WAYNESBORO [38.06, -78.87]

| | | | | |
|--|--------------------|---|---|---------------------------|
| | 04/16/11 16:30 EST | 2 | 0 | Flood (due to Heavy Rain) |
| | 04/16/11 17:00 EST | | 0 | Source: Emergency Manager |

Child and adult swept into Rockfish Run from the Kirby Street Bridge.

Direct Fatalities: F8IW, F41IW

ALBEMARLE COUNTY --- 0.9 NE BATESVILLE [38.01, -78.72], 0.9 NE BATESVILLE [38.01, -78.72], 0.7 ENE BATESVILLE [38.01, -78.72], 0.5 NE BATESVILLE [38.01, -78.72]

| | | | | |
|--|--------------------|--|---|--------------------------------|
| | 04/16/11 17:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/16/11 23:00 EST | | 0 | Source: Department of Highways |

County Road 689 was closed due to flooding. A rainfall report of 2.60 was received near the event location.

LOUDOUN COUNTY --- 0.5 E PURCELLVILLE [39.15, -77.71], 0.8 W PURCELLVILLE [39.15, -77.74], 1.0 W PURCELLVILLE [39.15, -77.74], 0.8 WSW PURCELLVILLE [39.14, -77.73], 0.6 SSW PURCELLVILLE [39.14, -77.73]

| | | | | |
|--|--------------------|--|---|---------------------------|
| | 04/16/11 17:15 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/16/11 23:15 EST | | 0 | Source: Amateur Radio |

Catoctin creek was out of its banks near Route 690. A rain gage near the event recorded 2.35 inches.

GREENE COUNTY --- 0.7 N STANDARDSVILLE [38.31, -78.43], 0.8 NNE STANDARDSVILLE [38.31, -78.42], 1.1 N STANDARDSVILLE [38.32, -78.43], 1.1 N STANDARDSVILLE [38.32, -78.43]

| | | | | |
|--|--------------------|--|---|---------------------------|
| | 04/16/11 18:30 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/16/11 23:30 EST | | 0 | Source: Emergency Manager |

South River Road at Madison Road was flooded. A rainfall report of 3.08 inches was received from near the event.

FREDERICK COUNTY --- 0.9 SE ARMEL [39.07, -78.14], 1.1 ESE ARMEL [39.07, -78.13], 0.9 E ARMEL [39.08, -78.13], 0.6 ESE ARMEL [39.08, -78.14]

| | | | | |
|--|--------------------|--|---|--------------------------------|
| | 04/16/11 19:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/16/11 23:00 EST | | 0 | Source: Department of Highways |

Nation Spring Road was closed to due flooding of Opequon Creek. A rainfall report of 2.03 inches was received from near the event.

GREENE COUNTY --- 2.3 NNE QUINQUE [38.28, -78.38], 2.5 NE QUINQUE [38.28, -78.37], 3.3 E STANDARDSVILLE [38.29, -78.37], 2.8 E STANDARDSVILLE [38.29, -78.38]

| | | | | |
|--|--------------------|--|---|---------------------------|
| | 04/16/11 19:30 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/16/11 23:30 EST | | 0 | Source: Emergency Manager |

Dundee and Fredericksburg Roads were closed due to flooding.

CLARKE COUNTY --- 3.3 ESE BERRYVILLE [39.14, -77.91], 3.4 ESE BERRYVILLE [39.14, -77.91], 3.4 ESE BERRYVILLE [39.14, -77.91], 3.2 ESE BERRYVILLE [39.14, -77.91]

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|----------|--------------------|-------------------|---------------------|---------------------------|
| | 04/16/11 23:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/17/11 06:00 EST | | 0 | Source: State Official |

North Sheperds Mill Road was closed due to high water. Rainfall near the event was measured at 2.69 inches.

| CLARKE COUNTY --- 4.8 NNW BOYCE [39.16, -78.09], 4.4 NNW BOYCE [39.16, -78.08], 3.9 NNW BOYCE [39.15, -78.08], 4.5 NNW BOYCE [39.16, -78.09] | | | | |
|---|--------------------|--|---|---------------------------|
| | 04/16/11 23:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/17/11 06:00 EST | | 0 | Source: State Official |

Opequon Creek was out of its banks at Senseny Road. Rainfall near the event was measured at 2.12 inches.

A strong and closed low pressure system over the Ohio Valley remained nearly stationary through the 16th, bringing copious moisture northward up the eastern seaboard. Lift to produce showers and thunderstorms was focused along a warm front that passed north through the mid-Atlantic during the morning. With ground already saturated from several rounds of significant rainfall in the past week, flooding and flash flooding resulted. Rainfall amounts of over 4 inches were observed.

| (VA-Z053) FAIRFAX | | | | |
|--------------------------|--------------------|--|---|---------------|
| | 04/16/11 15:52 EST | | 0 | Coastal Flood |
| | 04/17/11 07:45 EST | | 0 | |

A strong pressure gradient between high pressure over the Atlantic Ocean and a cold front moving in from the Ohio Valley resulted in a strong onshore flow. Elevated water levels due to the onshore flow caused areas of coastal flooding along the Tidal Potomac River in Alexandria.

| (VA-Z042) LOUDOUN | | | | |
|--------------------------|--------------------|--|---|-----------|
| | 04/20/11 02:40 EST | | 0 | Dense Fog |
| | 04/20/11 07:20 EST | | 0 | |

A stationary boundary remained just to the south during the 19th and 20th. An easterly flow on the cool side of the front ushered in plenty of moisture from the Atlantic Ocean during this time. The moisture led to areas of dense fog across northern Virginia early on the 20th.

| SHENANDOAH COUNTY --- 0.2 N STRASBURG [38.98, -78.37] | | | | |
|--|--------------------|--|---|------------------------------|
| | 04/23/11 14:12 EST | | 0 | Thunderstorm Wind (MG 56 kt) |
| | 04/23/11 14:12 EST | | 0 | Source: Mesonet |

A wind gust of 65 mph was reported near Strasburg.

An upper-level disturbance triggered showers and thunderstorms across eastern West Virginia on the 23rd. There was enough instability for an isolated thunderstorm to produce damaging winds.

| CLARKE COUNTY --- 2.9 N BOYCE [39.14, -78.04] | | | | |
|--|--------------------|--|-------|------------------------------|
| | 04/24/11 14:24 EST | | 0.50K | Thunderstorm Wind (EG 52 kt) |
| | 04/24/11 14:24 EST | | 0 | Source: Trained Spotter |

A tree was down at Senseny Road and Janeville Road.

| CLARKE COUNTY --- 3.8 WNW BERRYVILLE [39.18, -78.03] | | | | |
|---|--------------------|--|----|--------------------------------|
| | 04/24/11 14:26 EST | | 1K | Thunderstorm Wind (EG 52 kt) |
| | 04/24/11 14:26 EST | | 0 | Source: Fire Department/Rescue |

A tree was down along the 4200 block of Harry Bird Highway.

| LOUDOUN COUNTY --- 1.3 SSE LEESBURG [39.10, -77.54] | | | | |
|--|--------------------|--|-------|------------------------------|
| | 04/24/11 14:55 EST | | 0.50K | Thunderstorm Wind (EG 50 kt) |
| | 04/24/11 14:55 EST | | 0 | Source: NWS Employee |

Shingle roof damage was reported at the Central Weather Service Unit in Leesburg.

| LOUDOUN COUNTY --- 2.9 ESE LEESBURG [39.10, -77.50] | | | | |
|--|--------------------|--|-------|------------------------------|
| | 04/24/11 15:00 EST | | 0.50K | Thunderstorm Wind (EG 56 kt) |
| | 04/24/11 15:00 EST | | 0 | Source: NWS Employee |

A softwood tree was snapped along River Creek Parkway.

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|--|--------------------|-------------------|---------------------|------------------------------|
| LOUDOUN COUNTY --- 2.9 ESE LEESBURG [39.10, -77.50] | | | | |
| | 04/24/11 15:00 EST | | 1K | Thunderstorm Wind (EG 56 kt) |
| | 04/24/11 15:00 EST | | 0 | Source: Public |
| Two trees were snapped and one softwood tree was uprooted along Hillhead Place. | | | | |
| LOUDOUN COUNTY --- 2.6 N ASHBURN [39.09, -77.48] | | | | |
| | 04/24/11 15:01 EST | | 0.50K | Thunderstorm Wind (EG 56 kt) |
| | 04/24/11 15:01 EST | | 0 | Source: NWS Employee |
| A tree was uprooted along Coton Farm Drive. | | | | |
| LOUDOUN COUNTY --- 0.8 ENE LEESBURG [39.12, -77.54] | | | | |
| | 04/24/11 15:03 EST | | 1K | Thunderstorm Wind (EG 52 kt) |
| | 04/24/11 15:03 EST | | 0 | Source: Trained Spotter |
| A small tree was uprooted and part of a fence was damaged. | | | | |
| CULPEPER COUNTY --- 1.1 NW CATALPA [38.53, -77.98] | | | | |
| | 04/24/11 18:02 EST | | 0 | Hail (1.00 in) |
| | 04/24/11 18:02 EST | | 0 | Source: Public |
| Hail up to the size of quarters was reported along Bunker Ridge Drive. | | | | |
| ALEXANDRIA (C) COUNTY --- 0.4 NE POTOMAC YARD [38.83, -77.08] | | | | |
| | 04/24/11 19:30 EST | | 1K | Thunderstorm Wind (EG 52 kt) |
| | 04/24/11 19:30 EST | | 0 | Source: Trained Spotter |
| A tree that was eight inches in diameter and twenty-five feet tall was blown down. | | | | |
| ALEXANDRIA (C) COUNTY --- 0.5 WSW POTOMAC YARD [38.83, -77.09] | | | | |
| | 04/24/11 19:30 EST | | 1K | Thunderstorm Wind (EG 52 kt) |
| | 04/24/11 19:30 EST | | 0 | Source: Trained Spotter |
| A tree six inches in diameter was down. | | | | |
| ALEXANDRIA (C) COUNTY --- 1.1 E ALEXANDRIA [38.82, -77.06] | | | | |
| | 04/24/11 19:30 EST | | 0 | Thunderstorm Wind (EG 50 kt) |
| | 04/24/11 19:30 EST | | 0 | Source: Trained Spotter |
| A wind gust was estimated around 58 mph at Alexandria. | | | | |
| ALEXANDRIA (C) COUNTY --- 2.0 W ALEXANDRIA [38.82, -77.12] | | | | |
| | 04/24/11 19:30 EST | | 1K | Thunderstorm Wind (EG 50 kt) |
| | 04/24/11 19:30 EST | | 0 | Source: Trained Spotter |
| Several branches that were four inches in diameter were blown down along Polk Avenue. | | | | |
| ARLINGTON COUNTY --- 2.1 SW SOUTH WASHINGTON [38.85, -77.07] | | | | |
| | 04/24/11 19:30 EST | | 0 | Hail (1.00 in) |
| | 04/24/11 19:30 EST | | 0 | Source: Public |
| Hail up to the size of quarters was reported near Barcroft. | | | | |
| A southerly flow around high pressure over the Atlantic Ocean provided a warm and moist airmass across the region. A pressure trough combined with the warm and moist conditions to trigger showers and thunderstorms. There was enough instability for some thunderstorms to produce damaging winds. | | | | |
| NELSON COUNTY --- 1.8 WNW BUFFALO MINES [37.74, -79.06] | | | | |
| | 04/26/11 16:38 EST | | 0 | Hail (1.00 in) |
| | 04/26/11 16:38 EST | | 0 | Source: Public |

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|---|--------------------|-------------------|---------------------|------------------------------|
| Hail up to the size of quarters was reported near Piney River. | | | | |
| CHARLOTTESVILLE (C) COUNTY --- 1.0 SE CHARLOTTESVILLE [38.02, -78.49] | | | | |
| | 04/26/11 17:54 EST | | 2K | Thunderstorm Wind (EG 52 kt) |
| | 04/26/11 17:54 EST | | 0 | Source: Trained Spotter |
| A tree fell and snapped a power pole in Charlottesville. | | | | |
| CHARLOTTESVILLE (C) COUNTY --- 1.9 ESE CHARLOTTESVILLE [38.02, -78.47] | | | | |
| | 04/26/11 17:54 EST | | 5K | Thunderstorm Wind (EG 52 kt) |
| | 04/26/11 17:54 EST | 1 | 0 | Source: Trained Spotter |
| A pine tree fell down onto an automobile along Vine Street. There was one injury reported. | | | | |
| NELSON COUNTY --- 1.8 SE TYE RIVER [37.63, -78.94] | | | | |
| | 04/26/11 18:21 EST | | 0 | Hail (1.25 in) |
| | 04/26/11 18:21 EST | | 0 | Source: Public |
| Hail up to the size of half dollars was reported near Tye River. | | | | |
| ALBEMARLE COUNTY --- 0.9 NNE SIMEON [37.99, -78.45] | | | | |
| | 04/26/11 19:15 EST | | 5K | Thunderstorm Wind (EG 56 kt) |
| | 04/26/11 19:15 EST | | 0 | Source: Trained Spotter |
| About ten large Oak trees were blown down east of Route 53 and Route 20. | | | | |
| A southerly flow around high pressure off the east coast transported plenty of moisture from the Gulf of Mexico and Atlantic Ocean across the area. The warm and moist southerly flow combined with a pressure trough to trigger showers and thunderstorms. Moderate amounts of instability caused a few thunderstorms to produce damaging winds and large hail. | | | | |
| ALBEMARLE COUNTY --- 0.5 N SCOTTSVILLE [37.81, -78.50] | | | | |
| | 04/27/11 14:45 EST | | 0 | Hail (1.00 in) |
| | 04/27/11 14:45 EST | | 0 | Source: Public |
| Hail up to quarters in size was reported near Scottsville. | | | | |
| ALBEMARLE COUNTY --- 1.0 NNE SCOTTSVILLE [37.81, -78.49] | | | | |
| | 04/27/11 14:45 EST | | 1K | Thunderstorm Wind (EG 52 kt) |
| | 04/27/11 14:45 EST | | 0 | Source: Emergency Manager |
| A tree was down on Scottsville Road. | | | | |
| ORANGE COUNTY --- 0.4 WNW THORNHILL [38.15, -77.99] | | | | |
| | 04/27/11 15:50 EST | | 0 | Hail (1.00 in) |
| | 04/27/11 15:50 EST | | 0 | Source: Trained Spotter |
| Hail up to quarters in size was reported near Thornhill. | | | | |
| ORANGE COUNTY --- 0.6 E DANTON [38.18, -77.91] | | | | |
| | 04/27/11 16:02 EST | | 0.50K | Thunderstorm Wind (EG 50 kt) |
| | 04/27/11 16:02 EST | | 0 | Source: Public |
| Medium sized branches were down due to thunderstorm winds. | | | | |
| PRINCE WILLIAM COUNTY --- 0.3 SW DUMFRIES [38.57, -77.33] | | | | |
| | 04/27/11 17:12 EST | | 0 | Hail (1.50 in) |
| | 04/27/11 17:12 EST | | 0 | Source: Public |
| Ping pong ball sized hail was reported near Dumfries. | | | | |
| PRINCE WILLIAM COUNTY --- 0.3 SW DUMFRIES [38.57, -77.33] | | | | |

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|--|--------------------|-------------------|---------------------|--------------------------------------|
| | 04/27/11 17:12 EST | | 1K | Thunderstorm Wind (EG 56 kt) |
| | 04/27/11 17:12 EST | | 0 | Source: Public |
| Tree limbs about fifteen to seventeen inches in diameter were blown down. | | | | |
| <hr/> | | | | |
| STAFFORD COUNTY --- 1.5 ENE MIDWAY IS [38.51, -77.34], 2.1 ENE MIDWAY IS [38.51, -77.33] | | | | |
| | 04/27/11 17:15 EST | | 0 | Tornado (EF0, L: 0.62 mi , W: 50 yd) |
| | 04/27/11 17:17 EST | | 0 | Source: Other Federal Agency |
| A tornado was observed by a weather observer at Quantico and it was also seen by several others at a distance. Debris was reportedly lofted and circulated beneath a pendant funnel until it dissipated. | | | | |
| The tornado was located in remote wooded portions of the Quantico Marine Corps Base so damage indicators were inaccessible. The tornado path continued into Prince William County. | | | | |
| <hr/> | | | | |
| PRINCE WILLIAM COUNTY --- 1.2 W DUMFRIES [38.57, -77.35] | | | | |
| | 04/27/11 17:16 EST | | 0 | Hail (1.00 in) |
| | 04/27/11 17:16 EST | | 0 | Source: Fire Department/Rescue |
| Hail up to size of quarters was reported at Dumfries. | | | | |
| <hr/> | | | | |
| PRINCE WILLIAM COUNTY --- 0.9 WSW BROWN FIELD [38.51, -77.33], 1.6 NNW QUANTICO [38.54, -77.30] | | | | |
| | 04/27/11 17:17 EST | | 0 | Tornado (EF0, L: 2.70 mi , W: 50 yd) |
| | 04/27/11 17:22 EST | | 0 | Source: Other Federal Agency |
| A tornado was observed by a weather observer at Quantico and it was also seen by several others at a distance. Debris was reportedly lofted and circulated beneath a pendant funnel until it dissipated. | | | | |
| The tornado was located in remote wooded portions of the Quantico Marine Corps Base so damage indicators were inaccessible. | | | | |
| <hr/> | | | | |
| PRINCE WILLIAM COUNTY --- 1.4 NE DUMFRIES [38.58, -77.31] | | | | |
| | 04/27/11 17:17 EST | | 0 | Hail (1.50 in) |
| | 04/27/11 17:17 EST | | 0 | Source: Post Office |
| Ping pong ball sized hail was reported at Dumfries. | | | | |
| <hr/> | | | | |
| PRINCE WILLIAM COUNTY --- 0.5 N TRIANGLE [38.56, -77.33] | | | | |
| | 04/27/11 17:20 EST | | 1K | Thunderstorm Wind (EG 52 kt) |
| | 04/27/11 17:20 EST | | 0 | Source: Fire Department/Rescue |
| A large tree was down near Dumfries. | | | | |
| <hr/> | | | | |
| ALBEMARLE COUNTY --- 3.0 NNE CARTERS BRIDGE [37.94, -78.54] | | | | |
| | 04/27/11 18:03 EST | | 1K | Thunderstorm Wind (EG 52 kt) |
| | 04/27/11 18:03 EST | | 0 | Source: Emergency Manager |
| A tree was over Scottsville Road. | | | | |
| <hr/> | | | | |
| ALBEMARLE COUNTY --- 2.5 W SHADWELL [38.02, -78.45] | | | | |
| | 04/27/11 18:04 EST | | 1K | Thunderstorm Wind (EG 52 kt) |
| | 04/27/11 18:04 EST | | 0 | Source: Emergency Manager |
| Two trees were down over State Farm Boulevard. | | | | |
| <hr/> | | | | |
| ALBEMARLE COUNTY --- 1.1 WSW EASTHAM [38.06, -78.44] | | | | |
| | 04/27/11 18:05 EST | | 1K | Thunderstorm Wind (EG 52 kt) |
| | 04/27/11 18:05 EST | | 0 | Source: Emergency Manager |
| Trees were down on Bollingbrook Drive. | | | | |
| <hr/> | | | | |
| MADISON COUNTY --- 0.6 ESE OAKPARK [38.37, -78.16] | | | | |

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|--|--------------------|-------------------|---------------------|---------------------------------------|
| | 04/27/11 18:27 EST | | 1K | Thunderstorm Wind (EG 52 kt) |
| | 04/27/11 18:27 EST | | 0 | Source: Emergency Manager |
| A couple of trees were down near Oak Park. | | | | |
| <hr/> | | | | |
| LOUDOUN COUNTY --- 0.2 E BLUEMONT [39.12, -77.82] | | | | |
| | 04/27/11 19:32 EST | | 1K | Thunderstorm Wind (EG 56 kt) |
| | 04/27/11 19:32 EST | | 0 | Source: Public |
| Several trees were down on Route 7 in Round Hill. | | | | |
| <hr/> | | | | |
| SPOTSYLVANIA COUNTY --- 2.5 W HOLLADAY [38.12, -77.91] | | | | |
| | 04/27/11 19:40 EST | | 1K | Thunderstorm Wind (EG 52 kt) |
| | 04/27/11 19:40 EST | | 0 | Source: Trained Spotter |
| Two trees were down along Route 522. | | | | |
| <hr/> | | | | |
| PRINCE WILLIAM COUNTY --- 2.9 SSW NOKESVILLE [38.66, -77.59], 1.4 NW BRISTOW [38.73, -77.55] | | | | |
| | 04/27/11 21:46 EST | | 15K | Tornado (EF1, L: 5.78 mi , W: 125 yd) |
| | 04/27/11 22:01 EST | | 0 | Source: NWS Storm Survey |
| Numerous trees were snapped along Carriage Ford Road, Aden Road and Garman Drive. Siding and shingles were removed from several homes in the area. | | | | |
| Horse run-ins and sheds were also damaged. Garage doors were blown in on a detached garage. A fence was also damaged along with some signs and small trees in the parking lot of a shopping center. A few trees were snapped along Linton Hall Road before the tornado lifted. | | | | |
| <hr/> | | | | |
| FAIRFAX COUNTY --- 0.3 ENE SUNSET HILLS [38.95, -77.34], 1.4 NE SUNSET HILLS [38.96, -77.33] | | | | |
| | 04/27/11 22:25 EST | | 40K | Tornado (EF0, L: 1.12 mi , W: 75 yd) |
| | 04/27/11 22:28 EST | | 0 | Source: NWS Storm Survey |
| The tornado began in a parking lot along Sunset Hills Road where small limbs were snapped from a hardwood tree and a large limb was snapped from a softwood tree. The tornado crossed Sunset Hills Road and entered a golf course where it uprooted or snapped several hardwood and softwood trees. | | | | |
| A few trees were snapped or uprooted along Wedge Road and a few homes appeared to have minor damage from the fallen trees. The tornado tracked toward the Oaks Village Center before weakening. Numerous trees were uprooted or snapped near the Oaks Village Center. | | | | |
| High pressure remained over the western Atlantic while a strong cold front slowly tracked through the Midwest. A southerly flow pumped in copious amounts of moisture from the Atlantic and Gulf of Mexico. The trough of low pressure associated with the cold front provided enough cold air aloft for moderate instability to develop. The instability combined with an upper-level disturbance rotating around the trough to trigger showers and thunderstorms. | | | | |
| There was enough instability along with stronger winds aloft for some thunderstorms to become severe. Low level winds changed rapidly in speed and direction with height causing isolated tornadoes to develop. | | | | |
| <hr/> | | | | |
| HIGHLAND COUNTY --- 0.9 NW MC DOWELL [38.34, -79.49], 0.6 NW MC DOWELL [38.34, -79.49], 0.6 WNW MC DOWELL [38.33, -79.49], 0.7 WNW MC DOWELL [38.33, -79.49] | | | | |
| | 04/28/11 01:00 EST | | 0 | Flash Flood (due to Heavy Rain) |
| | 04/28/11 03:00 EST | | 0 | Source: Emergency Manager |
| A basement was inundated by nearly 3.5 feet of water. | | | | |
| <hr/> | | | | |
| HIGHLAND COUNTY --- 3.0 ENE MONTEREY [38.44, -79.53], 3.2 ENE MONTEREY [38.43, -79.52], 3.0 ENE MONTEREY [38.43, -79.53], 2.8 ENE MONTEREY [38.44, -79.53] | | | | |
| | 04/28/11 01:00 EST | | 0 | Flash Flood (due to Heavy Rain) |
| | 04/28/11 03:00 EST | | 0 | Source: Emergency Manager |
| Route 628 was washed out due to flash flooding. | | | | |
| <hr/> | | | | |
| HIGHLAND COUNTY --- FLOOD [38.23, -79.60], 1.1 ENE FLOOD [38.24, -79.58], 1.2 NE FLOOD [38.24, -79.58], 0.7 NE FLOOD [38.24, -79.59], 0.2 NNW FLOOD [38.23, -79.60] | | | | |
| | 04/28/11 01:00 EST | | 0 | Flash Flood (due to Heavy Rain) |
| | 04/28/11 03:00 EST | | 0 | Source: Emergency Manager |

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|----------|-----------|-------------------|---------------------|------------------------|
|----------|-----------|-------------------|---------------------|------------------------|

A bridge over Route 609 was washed out due to flash flooding. A rain gage in the area measured 2.02 inches.

LOUDOUN COUNTY --- 0.7 ENE STUMPTOWN [39.20, -77.54], 0.8 W LUCKETTS [39.22, -77.54], 1.0 W LUCKETTS [39.22, -77.55], 0.3 ENE STUMPTOWN [39.20, -77.54]

| | | |
|--------------------|---|---------------------------------|
| 04/28/11 06:24 EST | 0 | Flash Flood (due to Heavy Rain) |
| 04/28/11 09:30 EST | 0 | Source: Emergency Manager |

A water rescue was performed on New Valley Church Road near Lucketts. Numerous roads between Middleburg and Lucketts were covered with water. A spotter near the event observed 1.99 inches of rain.

LOUDOUN COUNTY --- 1.5 SSW LEESBURG [39.10, -77.56], 0.5 NNE BELMONT [39.06, -77.50], 1.5 ESE WATSON [38.99, -77.55], 2.4 NNE MIDDLEBURG [39.00, -77.75]

| | | |
|--------------------|---|---------------------------------|
| 04/28/11 06:59 EST | 0 | Flash Flood (due to Heavy Rain) |
| 04/28/11 10:00 EST | 0 | Source: Emergency Manager |

A water rescue was ongoing at Dry Mill Road in Leesburg. Numerous roads throughout the county were either closed or partially restricted.

LOUDOUN COUNTY --- HILLSBORO [39.20, -77.72], 0.2 SSW HILLSBORO [39.20, -77.72], 0.7 W HILLSBORO [39.20, -77.73], 0.6 WNW HILLSBORO [39.20, -77.73]

| | | |
|--------------------|---|---------------------------------|
| 04/28/11 08:00 EST | 0 | Flash Flood (due to Heavy Rain) |
| 04/28/11 11:00 EST | 0 | Source: State Official |

Route 9 was closed due to flash flooding on north fork Little Catoclin Creek.

LOUDOUN COUNTY --- 1.2 SSE LEESBURG MUNI [39.06, -77.54], 1.4 SSE LEESBURG MUNI [39.06, -77.54], 1.5 SSE LEESBURG MUNI [39.06, -77.54], 1.4 SSE LEESBURG MUNI [39.06, -77.54]

| | | |
|--------------------|---|--------------------------------|
| 04/28/11 09:00 EST | 0 | Flood (due to Heavy Rain) |
| 04/28/11 16:00 EST | 0 | Source: Department of Highways |

Gant Lane and Cochran Mill Road were impassible due to rising creek waters.

RAPPAHANNOCK COUNTY --- 0.9 NE SMEDLEY [38.71, -78.22], 1.1 NNE SMEDLEY [38.72, -78.23], 1.0 N SMEDLEY [38.71, -78.23], 0.7 NNE SMEDLEY [38.71, -78.22], 0.8 NE SMEDLEY [38.71, -78.22]

| | | |
|--------------------|---|--------------------------------|
| 04/28/11 09:00 EST | 0 | Flood (due to Heavy Rain) |
| 04/28/11 16:00 EST | 0 | Source: Department of Highways |

Gidbrown Hollow Road was closed due to water over the roadway.

RAPPAHANNOCK COUNTY --- 0.9 SE SLATE MILLS [38.52, -78.17], 0.6 SE SLATE MILLS [38.52, -78.17], 0.5 ESE SLATE MILLS [38.53, -78.17], 0.6 ESE SLATE MILLS [38.53, -78.17], 1.0 SE SLATE MILLS [38.52, -78.17], 1.0 SE SLATE MILLS [38.52, -78.17]

| | | |
|--------------------|---|--------------------------------|
| 04/28/11 09:00 EST | 0 | Flood (due to Heavy Rain) |
| 04/28/11 16:00 EST | 0 | Source: Department of Highways |

Reva Road was closed south of Boston due to flooding. A rain gage near the event measured 1.85 inches.

WARREN COUNTY --- 0.9 SW FRONT ROYAL ARPT [38.94, -78.13], 0.9 SSW FRONT ROYAL ARPT [38.94, -78.13], 1.1 ENE HAPPY CREEK [38.94, -78.13], 1.0 SW FRONT ROYAL ARPT [38.94, -78.13]

| | | |
|--------------------|---|---------------------------|
| 04/28/11 12:00 EST | 0 | Flood (due to Heavy Rain) |
| 04/28/11 19:00 EST | 0 | Source: State Official |

Bridge on Morgan Ford Road closed due to flooding.

A strong cold front slowly passed through the region during the morning of the 28th. A southerly flow ahead of the front caused deep moisture over the area. The cold front combined with the instability to trigger showers and thunderstorms with very heavy rainfall rates. Slow moving and training convection combined to produce flash flooding in some locations, as rainfall amounts of up to 2.5 inches were observed.

ROCKINGHAM COUNTY --- 1.8 W GENOA [38.65, -78.95]

| | | |
|--------------------|----|--------------------------------|
| 04/28/11 01:12 EST | 1K | Thunderstorm Wind (EG 61 kt) |
| 04/28/11 01:12 EST | 0 | Source: Fire Department/Rescue |

A large tree along with power lines were down along Little Dry River Road near Fulks Run.

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|--|--------------------|-------------------|---------------------|--|
| ROCKINGHAM COUNTY --- 2.3 W GENOA [38.65, -78.96], 5.3 NNW MECHANICSVILLE [38.74, -78.83] | | | | |
| | 04/28/11 01:12 EST | | 0.20M | Tornado (EF2, L: 9.06 mi , W: 400 yd) |
| | 04/28/11 01:22 EST | | 0 | Source: NWS Storm Survey |
| The tornado tore roofs from barns and homes. Numerous trees were uprooted and snapped along its path. A mobile home was also decimated. The tornado path continued into Shenandoah County. | | | | |
| AUGUSTA COUNTY --- 0.8 E BUFFALO GAP [38.18, -79.22], 1.1 WSW CHURCHVILLE [38.23, -79.17] | | | | |
| | 04/28/11 01:17 EST | | 0.10M | Tornado (EF1, L: 4.01 mi , W: 150 yd) |
| | 04/28/11 01:23 EST | | 0 | Source: NWS Storm Survey |
| Numerous trees were snapped and uprooted. Damage occurred at several homes between Christian and Churchville including removed roofing and destroyed outbuildings. | | | | |
| SHENANDOAH COUNTY --- 2.9 SW HEPNERS [38.74, -78.83], 1.6 WNW HARRISVILLE [38.96, -78.48] | | | | |
| | 04/28/11 01:22 EST | | 0.25M | Tornado (EF2, L: 24.45 mi , W: 400 yd) |
| | 04/28/11 01:41 EST | | 0 | Source: NWS Storm Survey |
| The tornado tore roofs from barns and homes. Numerous trees were uprooted and snapped along its path. The tornado also pcked up a half ton piece of industrial equipment and tossed it 200 yards. | | | | |
| SHENANDOAH COUNTY --- 1.0 WNW SAUMSVILLE [38.94, -78.52] | | | | |
| | 04/28/11 01:46 EST | | 0 | Thunderstorm Wind (MG 54 kt) |
| | 04/28/11 01:46 EST | | 0 | Source: Mesonet |
| A thunderstorm wind gust of 62 mph was reported near Alonzaville. | | | | |
| SHENANDOAH COUNTY --- 0.2 N STRASBURG [38.98, -78.37] | | | | |
| | 04/28/11 01:49 EST | | 0 | Thunderstorm Wind (MG 50 kt) |
| | 04/28/11 01:49 EST | | 0 | Source: Mesonet |
| A thunderstorm wind gust of 58 mph was reported near Strasburg. | | | | |
| ROCKINGHAM COUNTY --- 1.3 SSW LINVILLE [38.50, -78.84], 0.6 SSE LINVILLE [38.51, -78.83] | | | | |
| | 04/28/11 02:01 EST | | 50K | Tornado (EF1, L: 0.86 mi , W: 50 yd) |
| | 04/28/11 02:02 EST | | 0 | Source: NWS Storm Survey |
| Numerous large trees were snapped and uprooted along a horse farm. The tornado crossed Irish Path, Indian Ridge Lane and Melrose Road. | | | | |
| SHENANDOAH COUNTY --- 2.0 E CAPON RD [39.00, -78.33] | | | | |
| | 04/28/11 02:44 EST | | 1K | Thunderstorm Wind (EG 61 kt) |
| | 04/28/11 02:44 EST | | 0 | Source: Emergency Manager |
| A tree was uprooted on Hite Lane. | | | | |
| SHENANDOAH COUNTY --- 1.8 E CAPON RD [39.00, -78.34], 1.2 SSE ORANDA [39.02, -78.32] | | | | |
| | 04/28/11 02:45 EST | | 20K | Tornado (EF0, L: 1.35 mi , W: 175 yd) |
| | 04/28/11 02:46 EST | | 0 | Source: NWS Storm Survey |
| Several trees were uprooted and snapped. A Pole Barn was unroofed and several shingles were removed from a house. The tornado crossed Interstate 81 and Route 11. The tornado path continued into Frederck County. | | | | |
| FREDERICK COUNTY --- 1.1 WSW MEADOW MILLS [39.02, -78.32], 1.1 N MIDDLETOWN [39.05, -78.28] | | | | |
| | 04/28/11 02:46 EST | | 5K | Tornado (EF0, L: 2.93 mi , W: 175 yd) |
| | 04/28/11 02:49 EST | | 0 | Source: NWS Storm Survey |
| The tornado uprooted and snapped several trees near Middletown. | | | | |
| ROCKINGHAM COUNTY --- 2.0 ENE PLEASANT VLY [38.39, -78.86], 1.0 S RUTHERFORD [38.42, -78.83] | | | | |
| | 04/28/11 02:55 EST | | 75K | Tornado (EF1, L: 2.63 mi , W: 150 yd) |
| | 04/28/11 02:58 EST | | 0 | Source: NWS Storm Survey |

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|----------|-----------|-------------------|---------------------|------------------------|
|----------|-----------|-------------------|---------------------|------------------------|

A tornado touched down along Osceola Springs Road causing tree damage. The tornado proceeded to Boyer Road uprooting and snapping several trees. The tornado also caused structural damage to two homes by lifting their roofs. Two barn roofs were damaged and a metal shed was knocked down. A livestock trailer was also moved several feet.

LOUDOUN COUNTY --- 1.0 NW TAYLORSTOWN [39.26, -77.59]

| | | | | |
|--|--------------------|--|---|------------------------------|
| | 04/28/11 04:07 EST | | 0 | Thunderstorm Wind (EG 52 kt) |
| | 04/28/11 04:07 EST | | 0 | Source: Unknown |

Thunderstorm wind gusts were estimated to be around 60 mph.

LOUDOUN COUNTY --- 1.3 NNE TAYLORSTOWN [39.27, -77.57]

| | | | | |
|--|--------------------|--|---|------------------------------|
| | 04/28/11 04:07 EST | | 0 | Thunderstorm Wind (EG 52 kt) |
| | 04/28/11 04:07 EST | | 0 | Source: Unknown |

Thunderstorm wind gusts were estimated to be around 60 mph.

LOUDOUN COUNTY --- TAYLORSTOWN [39.25, -77.58]

| | | | | |
|--|--------------------|--|---|------------------------------|
| | 04/28/11 04:07 EST | | 0 | Thunderstorm Wind (EG 52 kt) |
| | 04/28/11 04:07 EST | | 0 | Source: Unknown |

Thunderstorm wind gusts were estimated to be around 60 mph.

LOUDOUN COUNTY --- 1.6 E MIDDLEBURG [38.97, -77.74]

| | | | | |
|--|--------------------|--|----|--------------------------------|
| | 04/28/11 04:16 EST | | 1K | Thunderstorm Wind (EG 50 kt) |
| | 04/28/11 04:16 EST | | 0 | Source: Fire Department/Rescue |

A tree fell down onto wires in Middleburg.

KING GEORGE COUNTY --- 0.8 NE LAMBS CREEK [38.26, -77.26]

| | | | | |
|--|--------------------|--|---|------------------------------|
| | 04/28/11 09:34 EST | | 0 | Thunderstorm Wind (EG 52 kt) |
| | 04/28/11 09:34 EST | | 0 | Source: Unknown |

Trees were down near Lambs creek.

KING GEORGE COUNTY --- 1.0 SSE SEALSTON [38.26, -77.32]

| | | | | |
|--|--------------------|--|---|------------------------------|
| | 04/28/11 09:34 EST | | 0 | Thunderstorm Wind (EG 52 kt) |
| | 04/28/11 09:34 EST | | 0 | Source: Unknown |

Trees were down near Sealston.

A strong cold front slowly passed through the region during the morning and early afternoon hours of the 28th. A southerly flow ahead of the front caused deep moisture over the area. The deep moisture combined with a mid-level trough to produce moderate amounts of instability. The cold front combined with the instability to trigger showers and thunderstorms. Some thunderstorms were able to mix down strong winds from aloft.

Low level wind speed and direction changed rapidly with height causing tornadoes to develop in some of the stronger thunderstorms.

WEST VIRGINIA, East

(WV-Z505) WESTERN PENDLETON

| | | | | |
|--|--------------------|--|---|--------------|
| | 04/01/11 20:00 EST | | 0 | Winter Storm |
| | 04/02/11 20:00 EST | | 0 | |

A mid level trough of low pressure and associated disturbance combined with steep lapse rates and northwest upsloping flow to produce snow showers across the west facing slopes Allegheny Front. Snow amounts of up to 8 inches accumulated in far western Pendleton County.

PENDLETON COUNTY --- 1.8 ESE KETTERMAN [38.87, -79.22], 2.1 ESE KETTERMAN [38.87, -79.21], 2.1 ESE KETTERMAN [38.87, -79.22], 1.9 ESE KETTERMAN [38.87, -79.22]

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|---|--------------------|-------------------|---------------------|---------------------------------|
| | 04/12/11 16:00 EST | | 0 | Flash Flood (due to Heavy Rain) |
| | 04/12/11 18:00 EST | | 0 | Source: Emergency Manager |
| North Mill Creek is flowing over adjacent portion of Route 220 near the Grant and Pendleton Counties Line. | | | | |
| PENDLETON COUNTY --- FRANKLIN [38.65, -79.33], 0.4 NNW FRANKLIN [38.66, -79.33], 0.4 N FRANKLIN [38.66, -79.33], 0.1 NNE FRANKLIN [38.65, -79.33] | | | | |
| | 04/12/11 16:00 EST | | 0 | Flash Flood (due to Heavy Rain) |
| | 04/12/11 18:00 EST | | 0 | Source: Trained Spotter |
| Six inches of water was flowing across Oakwood Estates Road near Route 220. A cooperative observer near the event observed 1.16 inches of rainfall. | | | | |
| GRANT COUNTY --- 0.9 NW ARTHUR [39.08, -79.13], 1.5 NNW ARTHUR [39.09, -79.13], 1.6 NW ARTHUR [39.09, -79.14], 0.8 NW ARTHUR [39.08, -79.13] | | | | |
| | 04/12/11 19:00 EST | | 0 | Flash Flood (due to Heavy Rain) |
| | 04/12/11 21:00 EST | | 0 | Source: Trained Spotter |
| Lunice Creek was overflowing, forcing the closure of Route 42 between Patterson Creek Road and Hott Hill Road. | | | | |
| GRANT COUNTY --- 0.9 SE HISER [38.96, -79.11], 0.9 S HISER [38.96, -79.12], 0.7 S HISER [38.96, -79.12], 0.6 SE HISER [38.96, -79.11] | | | | |
| | 04/12/11 20:00 EST | | 0 | Flash Flood (due to Heavy Rain) |
| | 04/12/11 22:00 EST | | 0 | Source: Trained Spotter |
| Twin bridges near the intersection of North Mill Creek Road and South Mill Creek Road were closed due to running water. | | | | |
| GRANT COUNTY --- 1.7 ESE STEBY [39.08, -79.20], 2.3 ESE STEBY [39.07, -79.19], 2.1 ESE STEBY [39.07, -79.19], 1.5 ESE STEBY [39.07, -79.20] | | | | |
| | 04/12/11 20:00 EST | | 0 | Flash Flood (due to Heavy Rain) |
| | 04/12/11 22:00 EST | | 0 | Source: Trained Spotter |
| Running water from Robinson Run was on Ridge Road. | | | | |
| GRANT COUNTY --- 3.2 E MOUNTAIN VLY [39.27, -79.07], 3.6 E MOUNTAIN VLY [39.27, -79.06], 3.4 NNE MARTIN [39.27, -79.06], 3.4 NNE MARTIN [39.27, -79.07] | | | | |
| | 04/12/11 20:00 EST | | 0 | Flash Flood (due to Heavy Rain) |
| | 04/12/11 22:00 EST | | 0 | Source: Trained Spotter |
| Running water from White Gap Run was flowing over Knobly Road. | | | | |
| PENDLETON COUNTY --- 1.4 WNW BRUSHY RUN [38.84, -79.26], 1.2 WNW BRUSHY RUN [38.83, -79.25], 1.3 W BRUSHY RUN [38.83, -79.25], 1.5 W BRUSHY RUN [38.83, -79.26] | | | | |
| | 04/12/11 20:00 EST | | 0 | Flash Flood (due to Heavy Rain) |
| | 04/12/11 21:00 EST | | 0 | Source: Trained Spotter |
| Running water caused closure of Jake Hill Road. | | | | |
| Low pressure both at the surface and the upper levels of the atmosphere passed through the region on the 12th. Showers and thunderstorms developed across the area. Despite relatively dry antecedent conditions, an unusually moist atmosphere combined with significant lift produce high rainfall rates sufficient for flash flooding across the Potomac Highlands. Rainfall amounts of over 3 inches in a several hour period were observed. | | | | |
| HARDY COUNTY --- 1.5 ENE NEEDMORE [39.05, -78.75] | | | | |
| | 04/16/11 13:06 EST | | 1K | Thunderstorm Wind (EG 52 kt) |
| | 04/16/11 13:06 EST | | 0 | Source: Fire Department/Rescue |
| A few trees were down along Arkansas Road. | | | | |
| BERKELEY COUNTY --- 1.8 NNW TOMAHAWK [39.55, -78.07] | | | | |
| | 04/16/11 14:11 EST | | 1K | Thunderstorm Wind (EG 52 kt) |
| | 04/16/11 14:11 EST | | 0 | Source: Fire Department/Rescue |
| Trees were down along Butts Mill Road. | | | | |
| GRANT COUNTY --- 0.7 E ROUGH RUN [38.90, -79.11] | | | | |

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|--|--------------------|-------------------|---------------------|--------------------------------|
| | 04/16/11 14:42 EST | | 0 | Thunderstorm Wind (EG 52 kt) |
| | 04/16/11 14:42 EST | | 0 | Source: Public |
| A thunderstorm wind gust was estimated to be around 60 mph. | | | | |
| <hr/> | | | | |
| GRANT COUNTY --- 0.7 ESE ROUGH RUN [38.90, -79.11] | | | | |
| | 04/16/11 14:42 EST | | 0 | Hail (1.50 in) |
| | 04/16/11 14:42 EST | | 0 | Source: Public |
| Hail up to the size of ping pong balls was reported near Masonville. | | | | |
| <hr/> | | | | |
| GRANT COUNTY --- 1.1 ENE ROUGH RUN [38.90, -79.10] | | | | |
| | 04/16/11 14:43 EST | | 0 | Hail (1.50 in) |
| | 04/16/11 14:43 EST | | 0 | Source: Public |
| Hail up to the size of ping pong balls was reported near Masonville. | | | | |
| <hr/> | | | | |
| GRANT COUNTY --- 1.1 ENE ROUGH RUN [38.90, -79.10] | | | | |
| | 04/16/11 14:43 EST | | 1K | Thunderstorm Wind (EG 61 kt) |
| | 04/16/11 14:43 EST | | 0 | Source: Public |
| Trees were down near Masonville. | | | | |
| <hr/> | | | | |
| GRANT COUNTY --- 1.4 E HISER [38.97, -79.09] | | | | |
| | 04/16/11 14:44 EST | | 0 | Hail (1.00 in) |
| | 04/16/11 14:44 EST | | 0 | Source: Public |
| Hail up to the size of quarters was reported near Dorcas. | | | | |
| <hr/> | | | | |
| GRANT COUNTY --- 1.1 NE DORCAS [38.94, -79.09] | | | | |
| | 04/16/11 14:45 EST | | 1K | Thunderstorm Wind (EG 61 kt) |
| | 04/16/11 14:45 EST | | 0 | Source: Fire Department/Rescue |
| A tree was down along Elkhorn Road. | | | | |
| <hr/> | | | | |
| GRANT COUNTY --- 1.8 ESE HISER [38.96, -79.09] | | | | |
| | 04/16/11 14:45 EST | | 1K | Thunderstorm Wind (EG 61 kt) |
| | 04/16/11 14:45 EST | | 0 | Source: Public |
| Trees were down near Dorcas. | | | | |
| <hr/> | | | | |
| PENDLETON COUNTY --- 2.2 SW FRANKLIN [38.63, -79.36] | | | | |
| | 04/16/11 14:55 EST | | 0 | Hail (1.00 in) |
| | 04/16/11 14:55 EST | | 0 | Source: Public |
| Hail up to the size of quarters was reported near Franklin. | | | | |
| <hr/> | | | | |
| PENDLETON COUNTY --- 1.8 SSW FRANKLIN [38.63, -79.35] | | | | |
| | 04/16/11 14:56 EST | | 0 | Hail (1.00 in) |
| | 04/16/11 14:56 EST | | 0 | Source: Public |
| Hail up to the size of quarters was reported near Franklin. | | | | |
| <hr/> | | | | |
| PENDLETON COUNTY --- 1.3 SW FRANKLIN [38.63, -79.34] | | | | |
| | 04/16/11 14:57 EST | | 0 | Hail (1.25 in) |
| | 04/16/11 14:57 EST | | 0 | Source: Public |
| Hail up to the size of half dollars was reported about one mile southwest of Franklin. | | | | |
| <hr/> | | | | |
| PENDLETON COUNTY --- 1.3 SW FRANKLIN [38.64, -79.35] | | | | |
| | 04/16/11 14:58 EST | | 0 | Hail (1.00 in) |
| | 04/16/11 14:58 EST | | 0 | Source: Public |

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|---|--------------------|-------------------|---------------------|---------------------------------|
| Hail up to the size of quarters was reported near Franklin. | | | | |
| PENDLETON COUNTY --- 2.2 W RUDDLE [38.72, -79.34] | | | | |
| | 04/16/11 15:00 EST | | 1K | Thunderstorm Wind (EG 52 kt) |
| | 04/16/11 15:00 EST | | 0 | Source: Trained Spotter |
| A few trees were down about five miles north of Franklin. | | | | |
| HAMPSHIRE COUNTY --- 0.4 ENE SLANESVILLE [39.37, -78.52] | | | | |
| | 04/16/11 15:26 EST | | 1K | Thunderstorm Wind (EG 52 kt) |
| | 04/16/11 15:26 EST | | 0 | Source: Fire Department/Rescue |
| A tree was down in Slanesville. | | | | |
| PENDLETON COUNTY --- 5.0 S SUGAR GROVE [38.45, -79.32] | | | | |
| | 04/16/11 15:40 EST | | 0 | Hail (1.50 in) |
| | 04/16/11 15:40 EST | | 0 | Source: Fire Department/Rescue |
| Hail up to the size of ping pong balls was reported near Palo Alto. | | | | |
| Strong low pressure over the Midwest remained cutoff from jet stream on the 16th. The warm front associated with this system passed through during the morning. Warm and moist southerly winds behind the front provided moderate amounts of instability. The instability combined with forcing from the low for showers and thunderstorms to develop. | | | | |
| There was enough instability along with strong winds aloft for some thunderstorms to become severe. | | | | |
| BERKELEY COUNTY --- 1.5 NNW (MRB)SHEPHERD FLD MR [39.42, -77.99], 1.7 NNW (MRB)SHEPHERD FLD MR [39.42, -77.99], 1.8 NNW (MRB)SHEPHERD FLD MR [39.42, -77.99], 1.7 NNW (MRB)SHEPHERD FLD MR [39.42, -77.99] | | | | |
| | 04/16/11 13:50 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/16/11 20:50 EST | | 0 | Source: Trained Spotter |
| Flowing water of estimated 4 inches depth was reported across Pikeview Drive. A rainfall amount near the event was reported of 2.41 inches. | | | | |
| HARDY COUNTY --- 2.3 ENE WARDENSVILLE [39.09, -78.56], 1.8 ENE WARDENSVILLE [39.09, -78.57], 1.8 NE WARDENSVILLE [39.09, -78.57], 2.3 ENE WARDENSVILLE [39.10, -78.56] | | | | |
| | 04/16/11 13:58 EST | | 0 | Flash Flood (due to Heavy Rain) |
| | 04/16/11 15:00 EST | | 0 | Source: State Official |
| Six inches of water flowing on Route 55. | | | | |
| BERKELEY COUNTY --- 1.7 WNW UNION CORNER [39.41, -78.11], 0.4 NNE SHANGHAI [39.44, -78.13], 1.0 NE SHANGHAI [39.44, -78.12], 1.3 ESE SHANGHAI [39.42, -78.11] | | | | |
| | 04/16/11 14:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/16/11 21:00 EST | | 0 | Source: Trained Spotter |
| Water of 4 to 5 inches in depth was flowing across Buck Hill Road, forcing its closure. A rain gage near the event recorded 2.25 inches. | | | | |
| HAMPSHIRE COUNTY --- 0.7 N CAPON SPGS [39.14, -78.48], 0.6 WSW CAPON SPGS [39.13, -78.49], 0.3 NNW CAPON LAKE [39.13, -78.50], 1.0 NNE CAPON LAKE [39.14, -78.49] | | | | |
| | 04/16/11 15:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/16/11 22:00 EST | | 0 | Source: Fire Department/Rescue |
| Small streams were out of their banks near Capon Springs. Rainfall in the area was measured at 1.21 inches. | | | | |
| MORGAN COUNTY --- 0.7 N RIDGE [39.48, -78.32], 1.4 NNW RIDGE [39.49, -78.33], 1.2 WNW RIDGE [39.48, -78.34], 0.4 WNW RIDGE [39.47, -78.33] | | | | |
| | 04/16/11 16:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/16/11 23:00 EST | | 0 | Source: Fire Department/Rescue |
| Old Blue Ridge Turnpike was closed due to flooding. | | | | |
| HARDY COUNTY --- 2.1 SW WARDENSVILLE [39.06, -78.63], 2.2 SW WARDENSVILLE [39.06, -78.63], 2.1 SW WARDENSVILLE [39.06, -78.63], 1.3 WSW WARDENSVILLE [39.07, -78.62], 1.6 WSW WARDENSVILLE [39.07, -78.63], 2.1 WSW WARDENSVILLE [39.07, -78.64] | | | | |

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|---|--------------------|-------------------|---------------------|--------------------------------|
| | 04/16/11 17:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/16/11 23:00 EST | | 0 | Source: State Official |
| One to one and one half feet of water was flowing across Trout Cutoff Road. | | | | |
| HARDY COUNTY --- 3.3 ENE MC CAULEY [39.06, -78.66], 2.9 NW WARDENSVILLE [39.11, -78.64], 3.3 NW WARDENSVILLE [39.11, -78.65], 3.4 ENE ARKANSAS [39.08, -78.67], 2.8 ENE MC CAULEY [39.06, -78.67] | | | | |
| | 04/16/11 17:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/16/11 23:00 EST | | 0 | Source: State Official |
| Saurkraut Road was flooded. | | | | |
| HAMPSHIRE COUNTY --- 0.9 NW LEHEW [39.21, -78.48], 0.7 SE HOOKS MILLS [39.22, -78.46], 0.6 WNW HOOKS MILLS [39.23, -78.48], 1.8 WNW LEHEW [39.21, -78.50] | | | | |
| | 04/16/11 17:40 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/16/11 23:40 EST | | 0 | Source: Trained Spotter |
| Small streams were out of their banks. | | | | |
| JEFFERSON COUNTY --- 0.8 E BOLIVAR [39.32, -77.74], 0.7 S HARPERS FERRY [39.32, -77.73], 0.8 ESE BOLIVAR [39.32, -77.74], 0.7 ESE BOLIVAR [39.32, -77.74] | | | | |
| | 04/16/11 19:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/16/11 23:00 EST | | 0 | Source: Amateur Radio |
| Chestnut Hill Road was closed due to water cascading down the road toward Highway 340. | | | | |
| JEFFERSON COUNTY --- MOUNTAIN MISSION [39.25, -77.80], 0.4 NE MOUNTAIN MISSION [39.25, -77.80], 0.5 WNW SUMMIT PT [39.25, -77.79], 0.4 ENE SUMMIT PT [39.25, -77.77], 0.6 NNE MANNINGS [39.24, -77.78] | | | | |
| | 04/16/11 19:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/16/11 23:00 EST | | 0 | Source: Emergency Manager |
| A mudslide and flooded basements were reported near the top of the mountain near the Virginia border. | | | | |
| A strong and closed low pressure system over the Ohio Valley remained nearly stationary through the 16th, bringing copious moisture northward up the eastern seaboard. Lift to produce showers and thunderstorms was focused along a warm front that passed north through the mid-Atlantic during the morning. With ground already saturated from several rounds of significant rainfall in the past week, flooding and flash flooding resulted. Rainfall amounts over the eastern West Virginia panhandle exceeded 3 inches in spots. | | | | |
| GRANT COUNTY --- 2.1 S MAYSVILLE [39.09, -79.17] | | | | |
| | 04/16/11 19:33 EST | | 0 | Thunderstorm Wind (EG 56 kt) |
| | 04/16/11 19:33 EST | | 0 | Source: Trained Spotter |
| A wind gust of 65 mph was estimated near Kine Gap. | | | | |
| GRANT COUNTY --- 0.2 WNW HOPEVILLE [38.97, -79.28] | | | | |
| | 04/16/11 19:37 EST | | 1K | Thunderstorm Wind (EG 50 kt) |
| | 04/16/11 19:37 EST | | 0 | Source: Fire Department/Rescue |
| A tree was down along Jordan Run Road. | | | | |
| GRANT COUNTY --- 0.7 SSW PETERSBURG GRANT ARP [38.99, -79.16] | | | | |
| | 04/16/11 19:37 EST | | 2K | Thunderstorm Wind (EG 56 kt) |
| | 04/16/11 19:37 EST | | 0 | Source: Trained Spotter |
| Five trees were down along Fish Hatchery Road. | | | | |
| An upper-level disturbance triggered showers and thunderstorms across eastern West Virginia on the 23rd. There was enough instability for a few thunderstorms to produce damaging winds. | | | | |
| GRANT COUNTY --- 0.8 W BAYARD [39.27, -79.26], 0.4 WNW BAYARD [39.27, -79.26], 0.5 W BAYARD [39.27, -79.26], 0.9 W BAYARD [39.27, -79.27] | | | | |
| | 04/19/11 13:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/19/11 20:00 EST | | 0 | Source: Law Enforcement |

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|--|--------------------|-------------------|---------------------|--------------------------------|
| Basement was flooded near Route 50. | | | | |
| MINERAL COUNTY --- 2.1 W RUSSELDALE [39.28, -78.97], 0.5 NNW BURLINGTON [39.34, -78.92], 0.7 E BURLINGTON [39.33, -78.91], 2.6 WSW RUSSELDALE [39.27, -78.98] | | | | |
| | 04/19/11 13:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/19/11 20:00 EST | | 0 | Source: Department of Highways |

Patterson Creek Road was closed due to flooding.

| | | | | |
|--|--------------------|--|---|--------------------------------|
| MINERAL COUNTY --- 3.5 SW SHORT GAP [39.51, -78.86], 4.2 NW CHAMPWOOD [39.50, -78.87], 4.5 SW SHORT GAP [39.50, -78.87], 3.3 SW SHORT GAP [39.51, -78.86] | | | | |
| | 04/19/11 13:00 EST | | 0 | Flood (due to Heavy Rain) |
| | 04/19/11 20:00 EST | | 0 | Source: Department of Highways |

Knobley Road was closed due to flooding. An observer near the event recorded 1.71" rain.

A wave of low pressure rode along a stationary boundary over northern West Virginia, producing scattered showers and isolated thunderstorms. A highly moist atmosphere supported heavy rainfall rates and training activity combined with saturated ground was enough to cause isolated flooding. Rainfall amounts of up to 2.01" were reported.

| | | | | |
|---|--------------------|--|---|-----------|
| (WV-Z502) EASTERN GRANT, (WV-Z504) EASTERN MINERAL | | | | |
| | 04/19/11 22:20 EST | | 0 | Dense Fog |
| | 04/20/11 07:59 EST | | 0 | |

A stationary boundary remained just to the south during the 19th and 20th. An easterly flow on the cool side of the front ushered in plenty of moisture from the Atlantic Ocean during this time. The moisture led to areas of dense fog during the early morning hours of the 20th.

| | | | | |
|--|--------------------|--|----|--------------------------------|
| GRANT COUNTY --- 0.8 SW HISER [38.96, -79.13] | | | | |
| | 04/26/11 16:27 EST | | 1K | Thunderstorm Wind (EG 50 kt) |
| | 04/26/11 16:27 EST | | 0 | Source: Fire Department/Rescue |

A tree was down along Tom Cox Road.

| | | | | |
|---|--------------------|--|----|------------------------------|
| HARDY COUNTY --- 0.7 NW KESSEL [39.08, -79.04] | | | | |
| | 04/26/11 19:03 EST | | 1K | Thunderstorm Wind (EG 52 kt) |
| | 04/26/11 19:03 EST | | 0 | Source: Law Enforcement |

A large oak tree was down on Synderville Road.

| | | | | |
|---|--------------------|--|---|-------------------------|
| PENDLETON COUNTY --- 1.4 SE JUDY GAP [38.68, -79.44] | | | | |
| | 04/26/11 19:20 EST | | 0 | Hail (1.00 in) |
| | 04/26/11 19:20 EST | | 0 | Source: Trained Spotter |

Hail up to the size of quarters was reported near Circleville.

| | | | | |
|---|--------------------|--|----|------------------------------|
| GRANT COUNTY --- 1.0 NW DORCAS [38.94, -79.12] | | | | |
| | 04/26/11 19:28 EST | | 1K | Thunderstorm Wind (EG 56 kt) |
| | 04/26/11 19:28 EST | | 0 | Source: Public |

A tree was uprooted along Hinkle Hollow Road.

| | | | | |
|---|--------------------|--|---|----------------|
| GRANT COUNTY --- 1.6 ESE HISER [38.96, -79.09] | | | | |
| | 04/26/11 19:30 EST | | 0 | Hail (1.00 in) |
| | 04/26/11 19:30 EST | | 0 | Source: Public |

Hail up to the size of quarters was reported near Dorcas.

| | | | | |
|---|--------------------|--|---|------------------------------|
| GRANT COUNTY --- 1.6 ESE HISER [38.96, -79.09] | | | | |
| | 04/26/11 19:30 EST | | 0 | Thunderstorm Wind (MG 50 kt) |
| | 04/26/11 19:30 EST | | 0 | Source: Public |

A wind gust of 58 mph was measured near Dorcas.

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|--|--------------------|-------------------|---------------------|---------------------------------|
| HARDY COUNTY --- 0.8 SSE DURGON [38.97, -79.04] | | | | |
| | 04/26/11 19:37 EST | | 0 | Hail (1.00 in) |
| | 04/26/11 19:37 EST | | 0 | Source: Public |
| Hail up to the size of quarters was reported along Jenkins Run Road. | | | | |
| HARDY COUNTY --- 0.5 N THE PARREN PLACE [39.01, -78.95] | | | | |
| | 04/26/11 19:46 EST | | 1K | Thunderstorm Wind (EG 56 kt) |
| | 04/26/11 19:46 EST | | 0 | Source: Public |
| Large limbs were snapped off hardwood trees along Stoney Run Road. | | | | |
| <p>A southerly flow around high pressure off the east coast transported plenty of moisture from the Gulf of Mexico and Atlantic Ocean across the area. The warm and moist southerly flow combined with a pressure trough to trigger showers and thunderstorms. Moderate amounts of instability caused a few thunderstorms to produce damaging winds and large hail.</p> | | | | |
| GRANT COUNTY --- 0.7 S CABINS [38.99, -79.22] | | | | |
| | 04/27/11 23:40 EST | | 2K | Thunderstorm Wind (EG 50 kt) |
| | 04/27/11 23:40 EST | | 0 | Source: Trained Spotter |
| Trees were down along Route 28. | | | | |
| GRANT COUNTY --- 0.4 SSW ARTHUR [39.07, -79.12] | | | | |
| | 04/27/11 23:45 EST | | 2K | Thunderstorm Wind (EG 50 kt) |
| | 04/27/11 23:45 EST | | 0 | Source: Trained Spotter |
| Trees were down along Route 42. | | | | |
| HAMPSHIRE COUNTY --- 1.2 E VANCE [39.38, -78.73] | | | | |
| | 04/28/11 00:08 EST | | 1K | Thunderstorm Wind (EG 56 kt) |
| | 04/28/11 00:08 EST | | 0 | Source: Fire Department/Rescue |
| A tree was down on Whisper Valley road. | | | | |
| HARDY COUNTY --- 2.4 S WARDENSVILLE [39.05, -78.59] | | | | |
| | 04/28/11 01:39 EST | | 2K | Thunderstorm Wind (EG 61 kt) |
| | 04/28/11 01:39 EST | | 0 | Source: Fire Department/Rescue |
| Trees were down along Waites Run. | | | | |
| HARDY COUNTY --- 2.5 NNE WARDENSVILLE [39.11, -78.58] | | | | |
| | 04/28/11 01:39 EST | | 3K | Thunderstorm Wind (EG 61 kt) |
| | 04/28/11 01:39 EST | | 0 | Source: COOP Observer |
| Numerous trees were down near Wardensville. | | | | |
| <p>A strong cold front slowly passed through the region during the late evening hours of the 27th into the morning of the 28th. A southerly flow ahead of the front caused deep moisture over the area. The deep moisture combined with a mid-level trough that was associated with the cold front to produce moderate amounts of instability. The cold front combined with the instability to trigger showers and thunderstorms. Gusty winds aloft were able to mix down to the surface in some of the stronger thunderstorms.</p> | | | | |
| GRANT COUNTY --- 0.9 SE STEBY [39.07, -79.22], 0.8 N STEBY [39.09, -79.23], 0.9 NNW STEBY [39.09, -79.24], 1.0 WSW STEBY [39.08, -79.25] | | | | |
| | 04/28/11 01:00 EST | | 0 | Flash Flood (due to Heavy Rain) |
| | 04/28/11 03:00 EST | | 0 | Source: Trained Spotter |
| Flash flooding was reported on Jordan Run Road along the north fork of Lunice Creek. | | | | |
| GRANT COUNTY --- 2.3 ESE STEBY [39.07, -79.19], 2.1 ESE STEBY [39.07, -79.19], 2.1 SE STEBY [39.06, -79.20], 2.8 SE STEBY [39.05, -79.20], 2.9 SE STEBY [39.05, -79.19], 2.5 ESE STEBY [39.07, -79.19] | | | | |
| | 04/28/11 01:00 EST | | 0 | Flash Flood (due to Heavy Rain) |
| | 04/28/11 03:00 EST | | 0 | Source: Trained Spotter |

Storm Data and Unusual Weather Phenomena - April 2011

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|----------|-----------|-------------------|---------------------|------------------------|
|----------|-----------|-------------------|---------------------|------------------------|

Corners Road was closed due to flash flooding along Lunice Creek.

GRANT COUNTY --- MAYSVILLE [39.12, -79.17], 0.9 E MAYSVILLE [39.12, -79.15], 1.0 ESE MAYSVILLE [39.11, -79.15], 0.5 S MAYSVILLE [39.11, -79.17]

| | | | | |
|--|--------------------|--|----|---------------------------------|
| | 04/28/11 01:00 EST | | 5K | Flash Flood (due to Heavy Rain) |
| | 04/28/11 03:00 EST | | 0 | Source: State Official |

Numerous reports of flash flooding in and around Maysville. Structural damage incurred at residence in Maysville. Multiple roads were closed.

MINERAL COUNTY --- 0.9 NW BURLINGTON [39.34, -78.93], 0.7 N BURLINGTON [39.34, -78.92], 0.6 N BURLINGTON [39.34, -78.92], 0.9 NW BURLINGTON [39.34, -78.93], 1.1 NW BURLINGTON [39.34, -78.93]

| | | | | |
|--|--------------------|--|---|---------------------------------|
| | 04/28/11 01:00 EST | | 0 | Flash Flood (due to Heavy Rain) |
| | 04/28/11 03:00 EST | | 0 | Source: State Official |

Flash flooding was observed on Route 50.

HAMPSHIRE COUNTY --- 0.5 E AUGUSTA [39.30, -78.64], 1.3 E AUGUSTA [39.30, -78.63], 1.7 E AUGUSTA [39.30, -78.62], 1.5 E AUGUSTA [39.30, -78.62], 0.9 ESE AUGUSTA [39.30, -78.63]

| | | | | |
|--|--------------------|--|---|---------------------------------|
| | 04/28/11 01:30 EST | | 0 | Flash Flood (due to Heavy Rain) |
| | 04/28/11 03:00 EST | | 0 | Source: Trained Spotter |

Route 50 was closed due to flash flooding in Augusta.

MORGAN COUNTY --- BERKELEY SPGS [39.63, -78.23], 2.1 ENE STOHR'S XRDS [39.65, -78.12], 1.2 N STOTLER'S XRDS [39.52, -78.22], 3.0 SE MAGNOLIA [39.55, -78.38]

| | | | | |
|--|--------------------|--|---|---------------------------------|
| | 04/28/11 03:00 EST | | 0 | Flash Flood (due to Heavy Rain) |
| | 04/28/11 09:00 EST | | 0 | Source: State Official |

Multiple reports of small streams flash flooding onto roadways and local farm fields.

A strong cold front slowly passed through the region during the morning of the 28th. A southerly flow ahead of the front caused deep moisture over the area. The cold front combined with the instability to trigger showers and thunderstorms with very heavy rainfall rates. Slow moving and training convection combined to produce flash flooding in some locations, with rainfall measurements approaching 1.5" in places.