

Storm Data and Unusual Weather Phenomena - January 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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DISTRICT OF COLUMBIA

(DC-Z001) DISTRICT OF COLUMBIA

	01/07/10 21:00 EST	0	Winter Weather
	01/08/10 07:00 EST	0	

A clipper system tracked through the Mid-Atlantic bringing a period of snow to most locations beginning on the evening of the 7th and lasting into the morning of the 8th.

(DC-Z001) DISTRICT OF COLUMBIA

	01/27/10 02:53 EST	0	Coastal Flood
	01/27/10 10:59 EST	0	

Heavy amounts of rain over the past couple days caused river levels to rise. The rapid flow of fresh water into the Tidal Potomac River caused coastal flooding at Washington Harbor during the morning of the 27th.

(DC-Z001) DISTRICT OF COLUMBIA

	01/30/10 10:00 EST	0	Winter Storm
	01/31/10 00:00 EST	0	

An upper-level low passed through the Mid-Atlantic triggering snow on the 30th. The heaviest snow fell during the late morning and afternoon hours.

MARYLAND, Central

(MD-Z501) EXTREME WESTERN ALLEGANY

	01/01/10 13:00 EST	0	Winter Storm
	01/02/10 21:00 EST	0	

A cold front passed through western Maryland triggering snow showers. The heaviest snow fell across locations along and west of the Allegheny front.

(MD-Z501) EXTREME WESTERN ALLEGANY

	01/07/10 17:00 EST	0	Winter Storm
	01/08/10 17:00 EST	0	

(MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z007) HARFORD, (MD-Z009) MONTGOMERY, (MD-Z010) HOWARD, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z013) PRINCE GEORGES, (MD-Z014) ANNE ARUNDEL, (MD-Z016) CHARLES, (MD-Z017) ST. MARY'S, (MD-Z018) CALVERT, (MD-Z502) CENTRAL AND EASTERN ALLEGANY

	01/07/10 19:00 EST	0	Winter Weather
	01/08/10 07:00 EST	0	

A clipper system tracked through the Mid-Atlantic bringing a period of snow to most locations beginning on the evening of the 7th and lasting into the morning of the 8th.

Snow persisted through the afternoon hours on the 8th across locations along and west of the Allegheny front.

(MD-Z009) MONTGOMERY, (MD-Z501) EXTREME WESTERN ALLEGANY, (MD-Z502) CENTRAL AND EASTERN ALLEGANY

	01/21/10 17:00 EST	0	Winter Weather
	01/22/10 14:00 EST	0	

Low pressure tracked through the Ohio Valley before redeveloping off the Mid-Atlantic Coast. High pressure to the north kept just enough cold air for precipitation that was associated with this low to fall in the form of snow and ice. The highest snow and ice totals were across the western portion of Maryland.

(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z005) CARROLL

	01/24/10 21:49 EST	8.50K	Strong Wind (MAX 45 kt)
	01/25/10 06:00 EST	0	

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(MD-Z014) ANNE ARUNDEL

	01/25/10 08:21 EST		0	High Wind (MAX 50 kt)
	01/25/10 08:21 EST		0	

Low pressure tracked through the Ohio Valley and into the Great Lakes. Gusty winds developed ahead of the cold front that was associated with this low during the night of the 24th into the early morning hours of the 25th.

(MD-Z011) SOUTHERN BALTIMORE, (MD-Z014) ANNE ARUNDEL

	01/25/10 11:36 EST		10K	Coastal Flood
	01/25/10 17:05 EST		0	

A persistent onshore flow lead to areas of coastal flooding near the shore of the Chesapeake Bay.

(MD-Z004) FREDERICK, (MD-Z006) NORTHERN BALTIMORE, (MD-Z007) HARFORD, (MD-Z009) MONTGOMERY, (MD-Z010) HOWARD, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z013) PRINCE GEORGES, (MD-Z014) ANNE ARUNDEL, (MD-Z016) CHARLES, (MD-Z017) ST. MARY'S, (MD-Z018) CALVERT, (MD-Z501) EXTREME WESTERN ALLEGANY

	01/30/10 07:00 EST		0	Winter Storm
	01/31/10 00:00 EST		0	

(MD-Z003) WASHINGTON, (MD-Z005) CARROLL, (MD-Z502) CENTRAL AND EASTERN ALLEGANY

	01/30/10 10:00 EST		0	Winter Weather
	01/31/10 00:00 EST		0	

An upper-level low passed through the Mid-Atlantic triggering snow on the 30th. The heaviest snow fell during the late morning and afternoon hours.

VIRGINIA, North

(VA-Z030) WARREN, (VA-Z031) CLARKE, (VA-Z039) MADISON, (VA-Z041) FAUQUIER, (VA-Z042) LOUDOUN, (VA-Z052) PRINCE WILLIAM, (VA-Z053) FAIRFAX, (VA-Z054) ARLINGTON, (VA-Z055) STAFFORD, (VA-Z056) SPOTSYLVANIA

	01/07/10 21:00 EST		0	Winter Weather
	01/08/10 07:00 EST		0	

A clipper system tracked through the Mid-Atlantic bringing a period of snow to most locations beginning on the evening of the 7th and lasting into the morning of the 8th.

Snow persisted through the afternoon hours on the 8th across locations along and west of the Allegheny front.

(VA-Z021) HIGHLAND, (VA-Z025) AUGUSTA, (VA-Z026) ROCKINGHAM, (VA-Z028) FREDERICK

	01/21/10 17:00 EST		0	Winter Weather
	01/22/10 14:00 EST		0	

Low pressure tracked through the Ohio Valley before redeveloping off the Mid-Atlantic Coast. High pressure to the north kept just enough cold air for precipitation that was associated with this low to fall in the form of snow and ice. Most of the snow and ice fell across the Shenandoah Valley.

(VA-Z036) NELSON, (VA-Z037) ALBEMARLE, (VA-Z039) MADISON, (VA-Z042) LOUDOUN, (VA-Z050) ORANGE, (VA-Z501) NORTHERN FAUQUIER, (VA-Z502) SOUTHERN FAUQUIER

	01/25/10 01:17 EST		28K	Strong Wind (MAX 45 kt)
	01/25/10 05:00 EST		0	

Low pressure tracked through the Ohio Valley and into the Great Lakes. Gusty winds developed ahead of the cold front that was associated with this low during the night of the 24th into the early morning hours of the 25th.

AUGUSTA COUNTY --- 2.4 SE CHURCHVILLE [38.20, -79.12], 2.5 SE CHURCHVILLE [38.21, -79.11], 2.9 SE CHURCHVILLE [38.20, -79.11], 2.9 SE CHURCHVILLE [38.20, -79.12]

	01/25/10 01:25 EST		0	Flash Flood (due to Heavy Rain)
	01/25/10 05:00 EST		0	Source: Emergency Manager

High water running over the the intersection of Old Churchville Road and Franks Mill Road. Observer near the event measured 3.27 inches of rain.

Storm Data and Unusual Weather Phenomena - January 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ALBEMARLE COUNTY --- 1.9 E FARMINGTON [38.05, -78.52], 2.1 E FARMINGTON [38.04, -78.51], 2.0 ESE FARMINGTON [38.04, -78.51], 1.9 ESE FARMINGTON [38.04, -78.52]				
	01/25/10 02:42 EST		0	Flash Flood (due to Heavy Rain)
	01/25/10 07:00 EST		0	Source: Emergency Manager
The interesection of Ivy Road and Old Ivy Road was closed due to 4 feet of water flowing over the roadway. Cooperative observer near the event measured 2.66 inches of rain.				
NELSON COUNTY --- 3.7 SW NELLYSFORD [37.84, -78.92], 0.8 NW STAGE BRIDGE [37.84, -78.79], 1.3 WSW ELMA [37.74, -78.82], 2.4 NE COLLEEN [37.73, -78.92]				
	01/25/10 02:45 EST		0	Flash Flood (due to Heavy Rain)
	01/25/10 06:00 EST		0	Source: Emergency Manager
Numerous reports of flash flooding across the county. Mesonet rain gauge 10 miles south of Stuarts Draft recorded 5.79 inches of rain.				
GREENE COUNTY --- 1.1 WNW DYKE [38.26, -78.55], 0.6 NNW DYKE [38.26, -78.53], 0.2 WSW DYKE [38.25, -78.53], 0.8 W DYKE [38.25, -78.55]				
	01/25/10 02:55 EST		0	Flash Flood (due to Heavy Rain)
	01/25/10 07:00 EST		0	Source: Emergency Manager
A basement was flooded out and a water rescue was conducted at a residence. A rain gauge in the county measured 2.20 inches of rain.				
AUGUSTA COUNTY --- 0.5 W DEERFIELD [38.20, -79.41], 0.1 SSW DEERFIELD [38.20, -79.40], 0.4 S DEERFIELD [38.19, -79.40], 1.1 WSW DEERFIELD [38.19, -79.42]				
	01/25/10 03:00 EST		0	Flash Flood (due to Heavy Rain)
	01/25/10 07:00 EST		0	Source: Emergency Manager
A vehicle was rescued from high waters. Cooperative observer measured 2.35 rainfall in the area.				
AUGUSTA COUNTY --- 2.7 E SHERANDO [37.98, -78.95], 2.4 E SHERANDO [37.98, -78.96], 2.4 E SHERANDO [37.98, -78.96], 2.5 SE LIPSCOMB [37.99, -78.95]				
	01/25/10 03:00 EST		0	Flash Flood (due to Heavy Rain)
	01/25/10 07:00 EST		0	Source: Emergency Manager
Evacuations due to flash flooding were reported across the Sherando and Bat Creek area. Rainfall report of 3.28 inches in the area.				
STAUNTON (C) COUNTY --- 0.9 NE STAUNTON [38.16, -79.06], 0.6 SSE STAUNTON [38.14, -79.07], 1.7 W STAUNTON [38.15, -79.10], 2.4 NNW STAUNTON [38.18, -79.09]				
	01/25/10 03:00 EST		0	Flash Flood (due to Heavy Rain)
	01/25/10 07:00 EST		0	Source: Emergency Manager
Fifteen to twenty roads in the county closed, including many of the major roads. Cooperative observer measured 1.40 inches of rain south the area.				
ALBEMARLE COUNTY --- 0.9 NE NORTH GARDEN [37.94, -78.64], 1.6 SSW RED HILL [37.95, -78.63], 1.5 WSW RED HILL [37.96, -78.64], 1.5 N NORTH GARDEN [37.95, -78.65]				
	01/25/10 04:30 EST		0	Flash Flood (due to Heavy Rain)
	01/25/10 07:00 EST		0	Source: Emergency Manager
Plank Road Closed due to high water. Cooperative observer in the area reported 3.22 inches of rain.				
HARRISONBURG (C) COUNTY --- 0.9 NW HARRISONBURG [38.46, -78.88], 0.8 NNW HARRISONBURG [38.46, -78.88], 0.7 NW HARRISONBURG [38.46, -78.88], 0.8 NW HARRISONBURG [38.46, -78.88]				
	01/25/10 04:30 EST		0	Flash Flood (due to Heavy Rain)
	01/25/10 07:00 EST		0	Source: Emergency Manager
Waterman Drive closed due to flash flooding. Observer in Harrisonburg reported 1.78 inches of rain.				
MADISON COUNTY --- 1.8 ENE OAKPARK [38.38, -78.14], 1.3 ENE OAKPARK [38.38, -78.15], 1.0 NE OAKPARK [38.38, -78.15], 1.4 NE OAKPARK [38.38, -78.15]				
	01/25/10 04:30 EST		0	Flash Flood (due to Heavy Rain)
	01/25/10 08:00 EST		0	Source: Emergency Manager

Fords Shop Road near State Route 632 closed due to flooding. Report of 3.95 inches of rainfall near the area.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
CULPEPER COUNTY --- MONUMENT MILLS [38.60, -78.00], 0.7 NE MONUMENT MILLS [38.61, -77.99], 0.7 N MONUMENT MILLS [38.61, -78.00], 0.3 WNW MONUMENT MILLS [38.60, -78.01]				
	01/25/10 05:00 EST		0	Flash Flood (due to Heavy Rain)
	01/25/10 09:15 EST		0	Source: Emergency Manager
Butler Store Road was closed at the low water bridge due to flash flooding. Observer in the area reported 2.19 inches of rain.				
ALBEMARLE COUNTY --- 60.0 N MADISONVILLE [38.03, -78.48], 60.0 N MADISONVILLE [38.03, -78.48], 59.8 N MADISONVILLE [38.03, -78.48], 59.9 N MADISONVILLE [38.03, -78.49]				
	01/25/10 05:14 EST		0	Flash Flood (due to Heavy Rain)
	01/25/10 08:30 EST		0	Source: Emergency Manager
McIntire Road at Harris Street under two feet of water. Measurement of 2.51 inches of rain in Charlottesville.				
ORANGE COUNTY --- 1.1 W ORANGE [38.25, -78.14], 0.9 W ORANGE [38.25, -78.14], 1.1 WNW ORANGE [38.26, -78.14], 1.4 WNW ORANGE [38.26, -78.14]				
	01/25/10 07:24 EST		0	Flash Flood (due to Heavy Rain)
	01/25/10 08:00 EST		0	Source: Department of Highways
Route 635 near Route 633 was closed due to flash flooding. Observed in the area measured 2.26 inches of rain.				
SHENANDOAH COUNTY --- 0.4 NW COLUMBIA FURNACE [38.87, -78.62], 0.5 NE EDINBURG [38.83, -78.56], 0.3 WNW EDINBURG [38.82, -78.58], 0.9 WSW COLUMBIA FURNACE [38.87, -78.64]				
	01/25/10 07:30 EST		0	Flash Flood (due to Heavy Rain)
	01/25/10 08:00 EST		0	Source: Emergency Manager
Stoney Creek Road was closed as Stoney Creek was out of its banks. Rainfall report near the area received of 1.60 inches.				
AUGUSTA COUNTY --- 3.3 SSW WEST AUGUSTA [38.24, -79.36], 1.1 NNE LYNDBURST [38.04, -78.94], 3.7 NNW LOFTON [37.99, -79.22], 3.2 WSW CRAIGSVILLE [38.07, -79.44]				
	01/25/10 07:45 EST		0	Flash Flood (due to Heavy Rain)
	01/25/10 08:00 EST		0	Source: Emergency Manager
Water rescues ongoing. Rainfall reports of up to 4.23 inches across the region.				
ALBEMARLE COUNTY --- 1.5 NE MECHAMS RIVER [38.06, -78.65], 1.9 ENE MECHAMS RIVER [38.06, -78.64], 1.4 ENE MECHAMS RIVER [38.06, -78.65], 0.9 NE MECHAMS RIVER [38.06, -78.66]				
	01/25/10 07:55 EST		0	Flash Flood (due to Heavy Rain)
	01/25/10 08:30 EST		0	Source: Emergency Manager
Browns Gap Turnpike at 3 Notched Road closed due to flash flooding. There was ongoing flooding reported across the county. Rain gauge in Earlysville measured 2.36 inches.				
RAPPAHANNOCK COUNTY --- 2.4 NNW FIVE FORKS [38.68, -78.18], 1.3 N ROCK MILLS [38.67, -78.13], 0.7 NNW ROCK MILLS [38.66, -78.14], 1.8 NNW FIVE FORKS [38.67, -78.18], 2.0 NNW FIVE FORKS [38.68, -78.18]				
	01/25/10 08:00 EST		0	Flash Flood (due to Heavy Rain)
	01/25/10 09:15 EST		0	Source: CoCoRaHS
Flash flooding reported along the Covington River. Report of 4.05 inches total rainfall, with 1.07 inches in one hour.				
FAUQUIER COUNTY --- 0.5 W ADA [38.83, -77.93], 0.3 WSW ADA [38.83, -77.92], 0.5 WSW ADA [38.83, -77.93], 0.6 WSW ADA [38.83, -77.93]				
	01/25/10 08:30 EST		0	Flash Flood (due to Heavy Rain)
	01/25/10 09:15 EST		0	Source: County Official
Crest Hill Road at Hume Road was closed due to flash flooding.				
FREDERICK COUNTY --- 1.6 E BURNING KNOLLS [39.17, -78.10], 2.1 NE BURNING KNOLLS [39.19, -78.10], 2.8 ENE BURNING KNOLLS [39.19, -78.08], 2.3 E BURNING KNOLLS [39.17, -78.09]				
	01/25/10 08:45 EST		0	Flood (due to Heavy Rain)
	01/25/10 14:45 EST		0	Source: Department of Highways
A low water bridge was closed due to high water. Rain gauge near the area measured 1.30 inches.				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
FREDERICK COUNTY --- 1.6 SSE BRUCETOWN [39.23, -78.06], 1.8 SE BRUCETOWN [39.23, -78.05], 2.1 SE BRUCETOWN [39.23, -78.05], 2.0 SSE BRUCETOWN [39.22, -78.06]				
	01/25/10 08:45 EST		0	Flood (due to Heavy Rain)
	01/25/10 14:45 EST		0	Source: Emergency Manager

A one lane bridge was closed along Old Charles Town Road due to high water. Rainfall total near event reported of 1.97 inches.

FREDERICK COUNTY --- 1.4 SSE BURNING KNOLLS [39.15, -78.12], 1.6 SSE BURNING KNOLLS [39.15, -78.11], 0.6 E BURNING KNOLLS [39.17, -78.12], 0.1 E BURNING KNOLLS [39.17, -78.13]				
	01/25/10 08:46 EST		0	Flood (due to Heavy Rain)
	01/25/10 14:45 EST		0	Source: Emergency Manager

Greenwood Road near Sulphur Spring Road closed due to high water. Radar estimated two to four inches across the region.

FREDERICK COUNTY --- 1.8 NNE ROUND HILL [39.22, -78.24], 1.8 W NAIN [39.23, -78.23], 1.9 NE HAYFIELD [39.25, -78.27], 1.5 ENE HAYFIELD [39.24, -78.28]				
	01/25/10 08:46 EST		0	Flood (due to Heavy Rain)
	01/25/10 14:45 EST		0	Source: Emergency Manager

Indian Hollow Road was closed due to high water.

FREDERICK COUNTY --- 2.3 W GORE [39.27, -78.39], 0.2 NNW GORE [39.27, -78.35], 0.8 SSW GORE [39.26, -78.36], 2.4 W GORE [39.27, -78.39]				
	01/25/10 08:51 EST		0	Flood (due to Heavy Rain)
	01/25/10 14:45 EST		0	Source: Emergency Manager

Hollow Road was closed due to high water.

A strong low pressure tracked across the Ohio Valley and into the Great Lakes. Southerly flow on the east side of this system brought abundant Gulf moisture into the mid-Atlantic. Heavy rain developed along a cold front, producing flash flooding and later flooding during the morning of the 25th.

(VA-Z021) HIGHLAND, (VA-Z025) AUGUSTA, (VA-Z026) ROCKINGHAM, (VA-Z027) SHENANDOAH, (VA-Z028) FREDERICK, (VA-Z029) PAGE, (VA-Z030) WARREN, (VA-Z031) CLARKE, (VA-Z036) NELSON, (VA-Z037) ALBEMARLE, (VA-Z038) GREENE, (VA-Z039) MADISON, (VA-Z040) RAPPAHANNOCK, (VA-Z042) LOUDOUN, (VA-Z050) ORANGE, (VA-Z051) CULPEPER, (VA-Z052) PRINCE WILLIAM, (VA-Z053) FAIRFAX, (VA-Z054) ARLINGTON, (VA-Z055) STAFFORD, (VA-Z056) SPOTSYLVANIA, (VA-Z057) KING GEORGE, (VA-Z501) NORTHERN FAUQUIER, (VA-Z502) SOUTHERN FAUQUIER				
	01/30/10 04:00 EST		0	Winter Storm
	01/31/10 00:00 EST		0	

An upper-level low passed through the Mid-Atlantic triggering snow on the 30th. The heaviest snow fell during the late morning and afternoon hours.

WEST VIRGINIA, East

(WV-Z501) WESTERN GRANT, (WV-Z503) WESTERN MINERAL				
	01/01/10 13:00 EST		0	Winter Storm
	01/02/10 21:00 EST		0	

A cold front passed through eastern West Virginia triggering snow showers. The heaviest snow fell across locations along and west of the Allegheny front.

(WV-Z054) PENDLETON, (WV-Z501) WESTERN GRANT, (WV-Z503) WESTERN MINERAL				
	01/03/10 12:00 EST		0	Winter Weather
	01/06/10 13:00 EST		0	

A cold front passed through eastern West Virginia. The combination of cold moist air moving over the mountains triggered a prolonged period of snow showers for locations along and west of the Allegheny Front.

(WV-Z501) WESTERN GRANT, (WV-Z503) WESTERN MINERAL				
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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	01/07/10 17:00 EST		0	Winter Storm
	01/08/10 17:00 EST		0	

A clipper system tracked through the Mid-Atlantic bringing a period of snow to most locations beginning on the evening of the 7th and lasting into the morning of the 8th.

Snow persisted through the afternoon hours on the 8th across locations along and west of the Allegheny front.

(WV-Z055) HARDY, (WV-Z503) WESTERN MINERAL, (WV-Z504) EASTERN MINERAL

	01/21/10 17:00 EST		0	Winter Weather
	01/22/10 14:00 EST		0	

(WV-Z501) WESTERN GRANT

	01/21/10 17:00 EST		0	Winter Storm
	01/22/10 14:00 EST		0	

Low pressure tracked through the Ohio Valley before redeveloping off the Mid-Atlantic Coast. High pressure to the north kept just enough cold air for precipitation that was associated with this low to fall in the form of snow and ice.

(WV-Z054) PENDLETON

	01/25/10 22:00 EST		0	Winter Weather
	01/26/10 22:00 EST		0	

(WV-Z501) WESTERN GRANT

	01/25/10 22:00 EST		0	Winter Storm
	01/26/10 22:00 EST		0	

The combination of cold air and moisture from the Great Lakes triggered snow showers for locations along and west of the Allegheny front. The heaviest snow fell on the morning and afternoon hours of the 26th.

(WV-Z053) JEFFERSON, (WV-Z054) PENDLETON, (WV-Z501) WESTERN GRANT

	01/30/10 04:00 EST		0	Winter Storm
	01/31/10 00:00 EST		0	

(WV-Z051) MORGAN, (WV-Z052) BERKELEY, (WV-Z055) HARDY, (WV-Z502) EASTERN GRANT, (WV-Z503) WESTERN MINERAL, (WV-Z504) EASTERN MINERAL

	01/30/10 07:00 EST		0	Winter Weather
	01/31/10 00:00 EST		0	

An upper-level low passed through the Mid-Atlantic triggering snow on the 30th. The heaviest snow fell during the late morning and afternoon hours.