

## Storm Data and Unusual Weather Phenomena - January 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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### ATLANTIC NORTH

#### CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- MID BAY BUOY [38.47, -76.38]

	01/24/19 13:36 EST	0	Marine Thunderstorm Wind (MG 36 kt)
	01/24/19 13:48 EST	0	Source: Buoy

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

Surface low pressure and an associated cold front combined with moist air and strong winds aloft to produce a squall line, a portion of which led to gusty winds over the waters.

### DISTRICT OF COLUMBIA

#### (DC-Z001) DISTRICT OF COLUMBIA

	01/12/19 17:00 EST	0	Winter Storm
	01/13/19 23:59 EST	0	

A low pressure system developed across the south central United States during the daylight hours of January 12th as high pressure was positioned over the northeastern United States and southeastern Canada. The low pressure system then tracked into the southeastern United States during the overnight hours of January 12th and moved northeastward offshore near the Outer Banks of North Carolina through the day of January 13th. Widespread significant accumulating snow affected the District of Columbia.

#### (DC-Z001) DISTRICT OF COLUMBIA

	01/17/19 16:00 EST	0	Winter Weather
	01/18/19 02:00 EST	0	

A cold front crossed the Mid-Atlantic on the night of January 16th with high pressure building in across the northeastern United States. A wave of low pressure developing near the St. Louis area then moved eastward along the frontal boundary during the daytime hours of the 17th and into the eastern Great Lakes overnight. The combination of the cold air provided by the high pressure area to the north and the moisture and lift associated with the low pressure system generated widespread accumulating snow from late afternoon on January 17th and persisting through the first half of the night until precipitation ended and temperatures rose to near or above freezing.

#### (DC-Z001) DISTRICT OF COLUMBIA

	01/21/19 00:00 EST	0	Cold/Wind Chill
	01/21/19 10:00 EST	0	

A low pressure system moved up the eastern seaboard of the United States on January 20th, with cold temperatures and strong northwest winds funneling behind the system from the night of the 20th into the morning of the 21st. This was able to produce very low wind chills across the District of Columbia.

#### (DC-Z001) DISTRICT OF COLUMBIA

	01/30/19 20:00 EST	0	Cold/Wind Chill
	01/31/19 10:00 EST	0	

A low pressure system moved into southeastern Canada on January 30th, with a cold front crossing through the Mid-Atlantic states. Cold temperatures and strong northwest winds followed behind the front on the night of the 30th and into the morning of the 31st. This was able to produce very low wind chills across the District of Columbia.

### MARYLAND, Central

#### (MD-Z501) EXTREME WESTERN ALLEGANY

	01/07/19 21:00 EST	0	Winter Weather
	01/07/19 23:59 EST	0	

A warm front approached the area during the day and into the evening of January 7th as a strong area of high pressure remained positioned off the Northeastern US coastline. Warm and moist air overrunning much cooler air at the surface led to areas of precipitation, some of which fell as light freezing rain across the terrain near the Allegheny Front.

## Storm Data and Unusual Weather Phenomena - January 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>(MD-Z501) EXTREME WESTERN ALLEGANY</b>				
	01/09/19 07:00 EST		0	Winter Weather
	01/10/19 17:00 EST		0	
<p>A strong low pressure system moved northeastward through the Northeastern US during the early morning hours of January 9th. Strong northwest flow followed behind the system leading to the formation of upslope snow along and near the Allegheny Front from January 9th and into January 10th.</p>				
<b>(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z005) CARROLL, (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, (MD-Z502) CENTRAL AND EASTERN ALLEGANY, (MD-Z503) NORTHWEST MONTGOMERY, (MD-Z504) CENTRAL AND SOUTHEAST MONTGOMERY, (MD-Z505) NORTHWEST HOWARD, (MD-Z506) CENTRAL AND SOUTHEAST HOWARD</b>				
	01/12/19 15:00 EST		0	Winter Storm
	01/14/19 02:00 EST		0	
<b>(MD-Z006) NORTHERN BALTIMORE, (MD-Z507) NORTHWEST HARFORD, (MD-Z508) SOUTHEAST HARFORD</b>				
	01/12/19 17:00 EST		0	Winter Weather
	01/12/19 23:59 EST		0	
<p>A low pressure system developed across the south central United States during the daylight hours of January 12th as high pressure was positioned over the northeastern United States and southeastern Canada. The low pressure system then tracked into the southeastern United States during the overnight hours of January 12th and moved northeastward offshore near the Outer Banks of North Carolina through the day of January 13th. Widespread accumulating snow affected the state of Maryland, with the highest totals south and west of Baltimore.</p>				
<b>(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z013) PRINCE GEORGES, (MD-Z014) ANNE ARUNDEL, (MD-Z503) NORTHWEST MONTGOMERY, (MD-Z504) CENTRAL AND SOUTHEAST MONTGOMERY, (MD-Z505) NORTHWEST HOWARD, (MD-Z506) CENTRAL AND SOUTHEAST HOWARD, (MD-Z507) NORTHWEST HARFORD</b>				
	01/17/19 15:00 EST		0	Winter Weather
	01/18/19 02:00 EST		0	
<p>A cold front crossed the Mid-Atlantic on the night of January 16th with high pressure building in across the northeastern United States. A wave of low pressure developing near the St. Louis area then moved eastward along the frontal boundary during the daytime hours of the 17th and into the eastern Great Lakes overnight. The combination of the cold air provided by the high pressure area to the north and the moisture and lift associated with the low pressure system generated widespread accumulating snow from late afternoon on January 17th and persisting through the first half of the night until precipitation ended and temperatures rose to near or above freezing.</p>				
<b>(MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z503) NORTHWEST MONTGOMERY, (MD-Z504) CENTRAL AND SOUTHEAST MONTGOMERY, (MD-Z505) NORTHWEST HOWARD, (MD-Z506) CENTRAL AND SOUTHEAST HOWARD</b>				
	01/18/19 07:35 EST		0	Dense Fog
	01/18/19 10:40 EST		0	
<p>Warm, moist air aloft overrunning colder surface air combined with lingering low level moisture to produce low clouds and widespread dense fog across portions of the region.</p>				
<b>(MD-Z501) EXTREME WESTERN ALLEGANY, (MD-Z502) CENTRAL AND EASTERN ALLEGANY</b>				
	01/19/19 08:00 EST		0	Winter Storm
	01/19/19 23:59 EST		0	
<b>(MD-Z003) WASHINGTON</b>				
	01/19/19 14:00 EST		0	Winter Weather
	01/19/19 23:59 EST		0	
<p>On the morning of January 19th, a low pressure system was located across the lower Mississippi Valley. This moved northeastward through the day and by the evening of the 19th was located across eastern Kentucky and Tennessee, intensifying to 994 mb as it did so. Overnight, the low tracked across Virginia and by mid morning on January 20th it was located near Philadelphia and had strengthened further to 988 mb. As it crossed the region, the system brought widespread precipitation, with mainly rain across central and southern Maryland, but accumulating snow and ice to areas near the Catoctin Mountains and points westward.</p>				
<b>(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (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, (MD-Z503) NORTHWEST MONTGOMERY, (MD-Z504) CENTRAL AND SOUTHEAST MONTGOMERY, (MD-Z505)</b>				

## Storm Data and Unusual Weather Phenomena - January 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>NORTHWEST HOWARD, (MD-Z506) CENTRAL AND SOUTHEAST HOWARD, (MD-Z507) NORTHWEST HARFORD, (MD-Z508) SOUTHEAST HARFORD</b>				
	01/21/19 00:00 EST		0	Cold/Wind Chill
	01/21/19 10:00 EST		0	

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**(MD-Z501) EXTREME WESTERN ALLEGANY**

	01/21/19 00:00 EST		0	Extreme Cold/Wind Chill
	01/21/19 10:00 EST		0	

A low pressure system moved up the eastern seaboard of the United States on January 20th, with cold temperatures and strong northwest winds funneling behind the system from the night of the 20th into the morning of the 21st. This was able to produce very low wind chills across much of the state.

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**MONTGOMERY COUNTY --- 2.4 NNE MT ZION [39.21, -77.09], 2.4 NNE MT ZION [39.21, -77.09], 2.3 WSW UNITY [39.21, -77.09], 2.4 WSW UNITY [39.21, -77.09]**

	01/24/19 13:56 EST		0	Flood (due to Heavy Rain)
	01/24/19 16:57 EST		0	Source: Fire Department/Rescue

Zion Road closed due to flooding of the Hawlings River. Water depth on road of about one foot.

A prolonged period of rain in a warm advection regime ahead of an approaching cold front led to 1-2 inches of rain across portions of Maryland. This resulted in isolated instances of flooding on the 24th.

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**(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z503) NORTHWEST MONTGOMERY, (MD-Z504) CENTRAL AND SOUTHEAST MONTGOMERY, (MD-Z505) NORTHWEST HOWARD, (MD-Z506) CENTRAL AND SOUTHEAST HOWARD, (MD-Z507) NORTHWEST HARFORD, (MD-Z508) SOUTHEAST HARFORD**

	01/29/19 12:00 EST		0	Winter Weather
	01/29/19 19:00 EST		0	

A strong surface cold front crossed the region from west to east on January 29th. As it did so, a wave of low pressure developed along the frontal boundary over southwestern Virginia and moved northeastward to a position near Philadelphia by the evening of the 29th. This led to a rain and snow mix developing ahead of the cold front, but changing over to all snow following the frontal passage. In general, 1 to 3 inches of snow were observed across central and northern Maryland, with very little to no snow reported in southern or western Maryland.

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**(MD-Z501) EXTREME WESTERN ALLEGANY**

	01/30/19 18:00 EST		0	Extreme Cold/Wind Chill
	01/31/19 10:00 EST		0	

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**(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z013) PRINCE GEORGES, (MD-Z014) ANNE ARUNDEL, (MD-Z502) CENTRAL AND EASTERN ALLEGANY, (MD-Z503) NORTHWEST MONTGOMERY, (MD-Z504) CENTRAL AND SOUTHEAST MONTGOMERY, (MD-Z505) NORTHWEST HOWARD, (MD-Z506) CENTRAL AND SOUTHEAST HOWARD, (MD-Z507) NORTHWEST HARFORD, (MD-Z508) SOUTHEAST HARFORD**

	01/30/19 20:00 EST		0	Cold/Wind Chill
	01/31/19 10:00 EST		0	

A low pressure system moved into southeastern Canada on January 30th, with a cold front crossing through the Mid-Atlantic states. Cold temperatures and strong northwest winds followed behind the front on the night of the 30th and into the morning of the 31st. This was able to produce very low wind chills across much of the state.

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### VIRGINIA, North

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**(VA-Z503) WESTERN HIGHLAND**

	01/09/19 07:00 EST		0	Winter Weather
	01/10/19 17:00 EST		0	

A strong low pressure system moved northeastward through the Northeastern US during the early morning hours of January 9th. Strong northwest flow followed behind the system leading to the formation of upslope snow along and near the Allegheny Front from January 9th and into January 10th.

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**(VA-Z025) AUGUSTA, (VA-Z036) NELSON, (VA-Z037) ALBEMARLE, (VA-Z503) WESTERN HIGHLAND, (VA-Z504) EASTERN HIGHLAND, (VA-Z508)**

## Storm Data and Unusual Weather Phenomena - January 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>CENTRAL VIRGINIA BLUE RIDGE</b>				
	01/12/19 15:00 EST		0	Winter Weather
	01/13/19 23:59 EST		0	
<b>(VA-Z026) ROCKINGHAM, (VA-Z027) SHENANDOAH, (VA-Z028) FREDERICK, (VA-Z029) PAGE, (VA-Z030) WARREN, (VA-Z031) CLARKE, (VA-Z038) GREENE, (VA-Z039) MADISON, (VA-Z040) RAPPAHANNOCK, (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, (VA-Z505) WESTERN LOUDOUN, (VA-Z506) EASTERN LOUDOUN, (VA-Z507) NORTHERN VIRGINIA BLUE RIDGE</b>				
	01/12/19 15:00 EST		0	Winter Storm
	01/13/19 23:59 EST		0	
<p>A low pressure system developed across the south central United States during the daylight hours of January 12th as high pressure was positioned over the northeastern United States and southeastern Canada. The low pressure system then tracked into the southeastern United States during the overnight hours of January 12th and moved northeastward offshore near the Outer Banks of North Carolina through the day of January 13th. Widespread accumulating snow affected northern and central Virginia, with the highest totals in northern Virginia.</p>				
<b>(VA-Z503) WESTERN HIGHLAND</b>				
	01/16/19 08:00 EST		0	Winter Weather
	01/16/19 14:00 EST		0	
<p>Lingering low level moisture combined with light upslope flow and an approaching cold front to produce areas of light freezing drizzle along and near the Allegheny Front of western Virginia. Trace amounts to a light glaze of ice were reported.</p>				
<b>(VA-Z029) PAGE, (VA-Z038) GREENE, (VA-Z039) MADISON, (VA-Z040) RAPPAHANNOCK, (VA-Z051) CULPEPER, (VA-Z052) PRINCE WILLIAM, (VA-Z054) ARLINGTON, (VA-Z501) NORTHERN FAUQUIER, (VA-Z502) SOUTHERN FAUQUIER, (VA-Z505) WESTERN LOUDOUN, (VA-Z506) EASTERN LOUDOUN, (VA-Z507) NORTHERN VIRGINIA BLUE RIDGE, (VA-Z508) CENTRAL VIRGINIA BLUE RIDGE</b>				
	01/17/19 15:00 EST		0	Winter Weather
	01/18/19 02:00 EST		0	
<p>A cold front crossed the Mid-Atlantic on the night of January 16th with high pressure building in across the northeastern United States. A wave of low pressure developing near the St. Louis area then moved eastward along the frontal boundary during the daytime hours of the 17th and into the eastern Great Lakes overnight. The combination of the cold air provided by the high pressure area to the north and the moisture and lift associated with the low pressure system generated widespread accumulating snow from late afternoon on January 17th and persisting through the first half of the night until precipitation ended and temperatures rose to near or above freezing.</p>				
<b>(VA-Z026) ROCKINGHAM, (VA-Z027) SHENANDOAH, (VA-Z028) FREDERICK, (VA-Z029) PAGE, (VA-Z030) WARREN, (VA-Z031) CLARKE, (VA-Z037) ALBEMARLE, (VA-Z040) RAPPAHANNOCK, (VA-Z050) ORANGE, (VA-Z051) CULPEPER, (VA-Z052) PRINCE WILLIAM, (VA-Z053) FAIRFAX, (VA-Z501) NORTHERN FAUQUIER, (VA-Z502) SOUTHERN FAUQUIER, (VA-Z505) WESTERN LOUDOUN, (VA-Z506) EASTERN LOUDOUN, (VA-Z507) NORTHERN VIRGINIA BLUE RIDGE</b>				
	01/18/19 07:15 EST		0	Dense Fog
	01/18/19 23:09 EST		0	
<p>Warm, moist air aloft overrunning colder surface air combined with lingering low level moisture to produce low clouds and widespread dense fog across portions of the region.</p>				
<b>(VA-Z028) FREDERICK, (VA-Z503) WESTERN HIGHLAND, (VA-Z504) EASTERN HIGHLAND, (VA-Z507) NORTHERN VIRGINIA BLUE RIDGE, (VA-Z508) CENTRAL VIRGINIA BLUE RIDGE</b>				
	01/19/19 14:00 EST		0	Winter Weather
	01/19/19 23:59 EST		0	
<p>On the morning of January 19th, a low pressure system was located across the lower Mississippi Valley. This moved northeastward through the day and by the evening of the 19th was located across eastern Kentucky and Tennessee, intensifying to 994 mb as it did so. Overnight, the low tracked across Virginia and by mid morning on January 20th it was located near Philadelphia and had strengthened further to 988 mb. As it crossed the region, the system brought widespread rain to central and northern Virginia, although trace amounts of ice were reported across the Blue Ridge and in western and far northwestern Virginia.</p>				
<b>PRINCE WILLIAM COUNTY --- 0.5 NNW YORKSHIRE [38.79, -77.43], 0.2 W YORKSHIRE [38.78, -77.43], 0.1 WNW YORKSHIRE [38.78, -77.43], 0.6 NNW YORKSHIRE [38.79, -77.43], 1.2 NNW YORKSHIRE [38.80, -77.44], 1.2 NNW YORKSHIRE [38.80, -77.44]</b>				
	01/20/19 07:09 EST		0	Flood (due to Heavy Rain)
	01/20/19 13:53 EST		0	Source: River/Stream Gage

## Storm Data and Unusual Weather Phenomena - January 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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The stream gage on the Bull Run at Manassas Park exceeded the 12 foot flood stage during the indicated period. Water covered backyards in the Yorkshire area and flooded portions of the Bull Run trail system. The peak level of 12.62 feet occurred at 10:38 AM.

**A deep trough and associated surface low tracked into the Ohio Valley late on the 19th. A large shield of warm advection precipitation moved over the area late on the 19th into the early 20th. Most locations received between one and two inches of precipitation, leading to isolated instances of flooding.**

<b>(VA-Z025) AUGUSTA, (VA-Z026) ROCKINGHAM, (VA-Z027) SHENANDOAH, (VA-Z028) FREDERICK, (VA-Z029) PAGE, (VA-Z030) WARREN, (VA-Z031) CLARKE, (VA-Z052) PRINCE WILLIAM, (VA-Z053) FAIRFAX, (VA-Z054) ARLINGTON, (VA-Z055) STAFFORD, (VA-Z057) KING GEORGE, (VA-Z501) NORTHERN FAUQUIER, (VA-Z502) SOUTHERN FAUQUIER, (VA-Z505) WESTERN LOUDOUN, (VA-Z506) EASTERN LOUDOUN</b>	01/21/19 00:00 EST	0	0	Cold/Wind Chill
	01/21/19 10:00 EST	0	0	

<b>(VA-Z503) WESTERN HIGHLAND, (VA-Z504) EASTERN HIGHLAND, (VA-Z507) NORTHERN VIRGINIA BLUE RIDGE, (VA-Z508) CENTRAL VIRGINIA BLUE RIDGE</b>	01/21/19 00:00 EST	0	0	Extreme Cold/Wind Chill
	01/21/19 10:00 EST	0	0	

**A low pressure system moved up the eastern seaboard of the United States on January 20th, with cold temperatures and strong northwest winds funneling behind the system from the night of the 20th into the morning of the 21st. This was able to produce very low wind chills across northern, central, and western Virginia.**

<b>(VA-Z508) CENTRAL VIRGINIA BLUE RIDGE</b>	01/23/19 14:16 EST	0	0	High Wind (MAX 63 kt)
	01/24/19 03:00 EST	0	0	

**A strengthening low pressure system moved up the Appalachians from the afternoon hours of January 23rd through the night and into the early morning hours of January 24th. Strong winds associated with the system led to high wind gusts across the higher elevations of the Blue Ridge.**

<b>FAIRFAX COUNTY --- 1.8 NE CLIFTON [38.80, -77.36], 1.8 NE CLIFTON [38.80, -77.36], 1.7 NW BUFFS CORNER [38.80, -77.35], 1.8 NW BUFFS CORNER [38.80, -77.35]</b>	01/24/19 11:50 EST	0	0	Flood (due to Heavy Rain)
	01/24/19 13:50 EST	0	0	Source: State Official

Road closed at the intersection of Fairfax Station Road and Innisvale Drive due to flooding.

<b>FAIRFAX COUNTY --- 0.2 SSW CLARKS CROSSING [38.92, -77.30], 0.3 SSW CLARKS CROSSING [38.92, -77.30], 0.4 SSE CLARKS CROSSING [38.91, -77.30], 0.3 SSE CLARKS CROSSING [38.92, -77.30]</b>	01/24/19 13:00 EST	0	0	Flood (due to Heavy Rain)
	01/24/19 15:00 EST	0	0	Source: Law Enforcement

Lawyers Road closed due to flooding near Galloping Way and Whipporwill Road.

<b>FAIRFAX COUNTY --- 0.5 E DONOVANS CORNER [38.77, -77.31], 0.6 E DONOVANS CORNER [38.77, -77.31], 0.7 E DONOVANS CORNER [38.77, -77.31], 0.6 E DONOVANS CORNER [38.77, -77.31]</b>	01/24/19 13:00 EST	0	0	Flood (due to Heavy Rain)
	01/24/19 15:00 EST	0	0	Source: Law Enforcement

Burke Lake Road closed due to flooding near Kilkenny Lane.

<b>FAIRFAX COUNTY --- 0.8 SSE BURKE [38.79, -77.27], 0.8 SSE BURKE [38.79, -77.27], 0.9 SSE BURKE [38.79, -77.26], 0.9 SSE BURKE [38.79, -77.27]</b>	01/24/19 13:00 EST	0	0	Flood (due to Heavy Rain)
	01/24/19 15:00 EST	0	0	Source: Law Enforcement

VA-652 (Burke Road) closed due to flooding near Heritage Square Drive.

<b>FAIRFAX COUNTY --- 1.0 WSW TREMONT [38.85, -77.24], 1.0 WSW TREMONT [38.85, -77.24], 0.9 WSW TREMONT [38.85, -77.24], 1.0 WSW TREMONT [38.85, -77.24]</b>	01/24/19 13:00 EST	0	0	Flood (due to Heavy Rain)
	01/24/19 15:00 EST	0	0	Source: Law Enforcement

Woodburn Road closed near Spicewood Drive due to flooding.

## Storm Data and Unusual Weather Phenomena - January 2019

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<b>FAIRFAX COUNTY --- 1.7 S KENMORE [38.93, -77.27], 1.6 S KENMORE [38.93, -77.27], 1.7 SSE KENMORE [38.93, -77.26], 1.8 N VIENNA [38.92, -77.26]</b>				
	01/24/19 13:00 EST		0	Flood (due to Heavy Rain)
	01/24/19 15:00 EST		0	Source: Law Enforcement
VA-677 (Old Courthouse Road) closed due to flooding at Besley Road.				
<b>FAIRFAX COUNTY --- 2.2 NNW VALE [38.91, -77.36], 2.2 NNW VALE [38.91, -77.36], 2.4 NNW VALE [38.91, -77.36], 2.3 NNW VALE [38.91, -77.36]</b>				
	01/24/19 13:00 EST		0	Flood (due to Heavy Rain)
	01/24/19 15:00 EST		0	Source: Law Enforcement
VA-665 (Fox Mill Road) closed due to flooding near Folkstone Drive.				
<b>FAIRFAX COUNTY --- 1.5 WSW MT VERNON [38.71, -77.11], 1.3 WSW MT VERNON [38.71, -77.10], 1.3 WSW MT VERNON [38.71, -77.10], 1.5 WSW MT VERNON [38.71, -77.11]</b>				
	01/24/19 13:08 EST		0	Flood (due to Heavy Rain)
	01/24/19 15:08 EST		0	Source: State Official
The end of Dandridge Terrace experiencing street flooding affecting multiple houses.				
<b>FAIRFAX COUNTY --- 1.2 N ILDA [38.85, -77.25], 1.3 N ILDA [38.85, -77.25], 1.1 NNE ILDA [38.85, -77.25], 1.1 N ILDA [38.85, -77.25]</b>				
	01/24/19 13:46 EST		0	Flood (due to Heavy Rain)
	01/24/19 15:46 EST		0	Source: State Official
Road closed at the intersection of Prosperity Avenue and Morningside Drive.				
<b>PRINCE WILLIAM COUNTY --- 1.6 ESE CATHARPIN [38.84, -77.54], 1.7 ESE CATHARPIN [38.84, -77.54], 1.8 ESE CATHARPIN [38.84, -77.54], 1.8 ESE CATHARPIN [38.84, -77.54]</b>				
	01/24/19 13:52 EST		0	Flood (due to Heavy Rain)
	01/24/19 15:52 EST		0	Source: Department of Highways
Featherbed Lane closed due to flooding near VA-234 (Sudley Road).				
<b>PRINCE WILLIAM COUNTY --- 1.1 W CATHARPIN [38.85, -77.59], 1.2 W CATHARPIN [38.85, -77.59], 1.3 W CATHARPIN [38.85, -77.59], 1.2 W CATHARPIN [38.85, -77.59]</b>				
	01/24/19 14:00 EST		0	Flood (due to Heavy Rain)
	01/24/19 16:00 EST		0	Source: State Official
Catharpin Road closed due to flooding near Catharpin Valley Drive.				
<b>FAIRFAX COUNTY --- 0.8 NNW CLARKS CROSSING [38.93, -77.31], 0.8 NNW CLARKS CROSSING [38.93, -77.30], 0.7 NNW CLARKS CROSSING [38.93, -77.30], 0.7 NNW CLARKS CROSSING [38.93, -77.31]</b>				
	01/24/19 14:22 EST		0	Flood (due to Heavy Rain)
	01/24/19 16:22 EST		0	Source: Broadcast Media
VA-674 Hunter Mill Road closed near Hunter Station Road due to flooding.				
<b>PRINCE WILLIAM COUNTY --- 0.5 NNW YORKSHIRE [38.79, -77.43], 0.2 W YORKSHIRE [38.78, -77.43], 0.1 WNW YORKSHIRE [38.78, -77.43], 0.6 NNW YORKSHIRE [38.79, -77.43], 1.2 NNW YORKSHIRE [38.80, -77.44], 1.2 NNW YORKSHIRE [38.80, -77.44]</b>				
	01/24/19 17:25 EST		0	Flood (due to Heavy Rain)
	01/25/19 02:59 EST		0	Source: River/Stream Gage
The stream gage on the Bull Run at Manassas Park exceeded the 12 foot flood stage during the indicated period. Water covered backyards in the Yorkshire area and flooded portions of the Bull Run trail system. The peak level of 13.48 feet occurred at 10:45 PM on the 24th.				
<b>PRINCE WILLIAM COUNTY --- 0.9 N BRISTOW [38.73, -77.53], 0.9 N BRISTOW [38.73, -77.53], 0.4 N BRISTOW [38.73, -77.53], 0.5 NNW BRISTOW [38.73, -77.53]</b>				
	01/24/19 20:39 EST		0	Flood (due to Heavy Rain)
	01/24/19 22:33 EST		0	Source: River/Stream Gage
The stream gage on the Broad Run at Bristow exceeded the 9.5 foot flood stage during the indicated period. Piper Lane flooded near Manassas Airport and trails along the stream were also flooded. The peak level of 10.03 feet occurred at 10:01 PM.				

## Storm Data and Unusual Weather Phenomena - January 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A prolonged period of rain in a warm advection regime ahead of an approaching cold front led to 1-2 inches of rain across Northern Virginia. This resulted in isolated instances of flooding on the 24th and 25th.

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(VA-Z027) SHENANDOAH, (VA-Z028) FREDERICK, (VA-Z029) PAGE, (VA-Z030) WARREN, (VA-Z031) CLARKE, (VA-Z052) PRINCE WILLIAM, (VA-Z053) FAIRFAX, (VA-Z501) NORTHERN FAUQUIER, (VA-Z502) SOUTHERN FAUQUIER, (VA-Z505) WESTERN LOUDOUN, (VA-Z506) EASTERN LOUDOUN, (VA-Z507) NORTHERN VIRGINIA BLUE RIDGE

01/29/19 12:00 EST	0	Winter Weather
01/29/19 19:00 EST	0	

A strong surface cold front crossed the region from west to east on January 29th. As it did so, a wave of low pressure developed along the frontal boundary over southwestern Virginia and moved northeastward to a position near Philadelphia by the evening of the 29th. This led to a rain and snow mix developing ahead of the cold front, but changing over to all snow following the frontal passage. In general, 1 to 3 inches of snow were observed across northern Virginia, with less amounts south and west.

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(VA-Z503) WESTERN HIGHLAND, (VA-Z504) EASTERN HIGHLAND, (VA-Z507) NORTHERN VIRGINIA BLUE RIDGE, (VA-Z508) CENTRAL VIRGINIA BLUE RIDGE

01/30/19 18:00 EST	0	Extreme Cold/Wind Chill
01/31/19 10:00 EST	0	

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(VA-Z027) SHENANDOAH, (VA-Z028) FREDERICK, (VA-Z029) PAGE, (VA-Z030) WARREN, (VA-Z031) CLARKE, (VA-Z038) GREENE, (VA-Z039) MADISON, (VA-Z040) RAPPAHANNOCK, (VA-Z050) ORANGE, (VA-Z051) CULPEPER, (VA-Z052) PRINCE WILLIAM, (VA-Z053) FAIRFAX, (VA-Z054) ARLINGTON, (VA-Z055) STAFFORD, (VA-Z501) NORTHERN FAUQUIER, (VA-Z502) SOUTHERN FAUQUIER, (VA-Z505) WESTERN LOUDOUN, (VA-Z506) EASTERN LOUDOUN

01/30/19 20:00 EST	0	Cold/Wind Chill
01/31/19 10:00 EST	0	

A low pressure system moved into southeastern Canada on January 30th, with a cold front crossing through the Mid-Atlantic states. Cold temperatures and strong northwest winds followed behind the front on the night of the 30th and into the morning of the 31st. This was able to produce very low wind chills across much of central, northern, and western Virginia.

### WEST VIRGINIA, East

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(WV-Z503) WESTERN MINERAL

01/07/19 21:00 EST	0	Winter Weather
01/07/19 23:59 EST	0	

A warm front approached the area during the day and into the evening of January 7th as a strong area of high pressure remained positioned off the Northeastern US coastline. Warm and moist air overrunning much cooler air at the surface led to areas of precipitation, some of which fell as light freezing rain across the terrain near the Allegheny Front.

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(WV-Z501) WESTERN GRANT, (WV-Z503) WESTERN MINERAL

01/09/19 07:00 EST	0	Winter Weather
01/10/19 17:00 EST	0	

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(WV-Z505) WESTERN PENDLETON

01/09/19 07:00 EST	0	Winter Storm
01/10/19 17:00 EST	0	

A strong low pressure system moved northeastward through the Northeastern US during the early morning hours of January 9th. Strong northwest flow followed behind the system leading to the formation of upslope snow along and near the Allegheny Front from January 9th and into January 10th.

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(WV-Z505) WESTERN PENDLETON

01/09/19 21:00 EST	0	Cold/Wind Chill
01/10/19 06:00 EST	0	

A low pressure system moved up the eastern seaboard of the United States from January 8th through the 9th, with cold temperatures and strong northwest winds funneling behind the system and a secondary arctic front from the night of the 9th into the morning of the 10th. This was able to produce wind chill values as low as -10 degrees over the higher terrain near the Allegheny Front.

## Storm Data and Unusual Weather Phenomena - January 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>(WV-Z050) HAMPSHIRE, (WV-Z051) MORGAN, (WV-Z052) BERKELEY, (WV-Z053) JEFFERSON, (WV-Z055) HARDY, (WV-Z503) WESTERN MINERAL, (WV-Z504) EASTERN MINERAL</b>				
	01/12/19 15:00 EST		0	Winter Storm
	01/13/19 23:59 EST		0	
<b>(WV-Z501) WESTERN GRANT, (WV-Z502) EASTERN GRANT, (WV-Z505) WESTERN PENDLETON, (WV-Z506) EASTERN PENDLETON</b>				
	01/12/19 15:00 EST		0	Winter Weather
	01/13/19 23:59 EST		0	
<p>A low pressure system developed across the south central United States during the daylight hours of January 12th as high pressure was positioned over the northeastern United States and southeastern Canada. The low pressure system then tracked into the southeastern United States during the overnight hours of January 12th and moved northeastward offshore near the Outer Banks of North Carolina through the day of January 13th. Widespread accumulating snow affected eastern West Virginia, with the highest totals near the I-81 corridor.</p>				
<b>(WV-Z501) WESTERN GRANT, (WV-Z505) WESTERN PENDLETON</b>				
	01/16/19 08:00 EST		0	Winter Weather
	01/16/19 14:00 EST		0	
<p>Lingering low level moisture combined with light upslope flow and an approaching cold front to produce areas of light freezing drizzle along and near the Allegheny Front of West Virginia. Trace amounts to a light glaze of ice were reported.</p>				
<b>(WV-Z053) JEFFERSON</b>				
	01/18/19 07:35 EST		0	Dense Fog
	01/18/19 10:15 EST		0	
<p>Warm, moist air aloft overrunning colder surface air combined with lingering low level moisture to produce low clouds and widespread dense fog across portions of the region.</p>				
<b>(WV-Z050) HAMPSHIRE, (WV-Z051) MORGAN, (WV-Z052) BERKELEY, (WV-Z501) WESTERN GRANT, (WV-Z502) EASTERN GRANT, (WV-Z503) WESTERN MINERAL, (WV-Z504) EASTERN MINERAL, (WV-Z505) WESTERN PENDLETON, (WV-Z506) EASTERN PENDLETON</b>				
	01/19/19 14:00 EST		0	Winter Weather
	01/19/19 23:59 EST		0	
<p>On the morning of January 19th, a low pressure system was located across the lower Mississippi Valley. This moved northeastward through the day and by the evening of the 19th was located across eastern Kentucky and Tennessee, intensifying to 994 mb as it did so. Overnight, the low tracked across Virginia and by mid morning on January 20th it was located near Philadelphia and had strengthened further to 988 mb. As it crossed the region, the system brought widespread mixed precipitation to eastern West Virginia, with light snow and ice accumulations being observed.</p>				
<b>BERKELEY COUNTY --- 0.4 WSW BLAIRTON [39.45, -77.93], 1.2 WSW BLAIRTON [39.44, -77.94], 2.6 SSE (MRB)SHEPHERD FLD MR [39.37, -77.96], 3.0 SE (MRB)SHEPHERD FLD MR [39.37, -77.95], 3.1 ESE (MRB)SHEPHERD FLD MR [39.38, -77.93]</b>				
	01/20/19 12:27 EST		0	Flood (due to Heavy Rain)
	01/20/19 22:58 EST		0	Source: River/Stream Gage
<p>The river gage on the Opequon Creek at Martinsburg exceeded the 10 foot flood stage during the indicated period, leading to flooding along portions of Douglas Grove Road (County Road 9/16) and Bowers Road. Additionally, water covered the stream access point at the Van Metre Ford Pedestrian Bridge. The peak level of 10.88 feet occurred at 6:15 PM on the 20th.</p>				
<p>A deep trough and associated surface low tracked into the Ohio Valley late on the 19th. A large shield of warm advection precipitation moved over the area late on the 19th into the early 20th. Most locations received between one and two inches of precipitation, leading to isolated instances of flooding.</p>				
<b>(WV-Z050) HAMPSHIRE, (WV-Z051) MORGAN, (WV-Z052) BERKELEY, (WV-Z053) JEFFERSON, (WV-Z055) HARDY, (WV-Z502) EASTERN GRANT, (WV-Z504) EASTERN MINERAL</b>				
	01/21/19 00:00 EST		0	Cold/Wind Chill
	01/21/19 10:00 EST		0	
<b>(WV-Z501) WESTERN GRANT, (WV-Z503) WESTERN MINERAL, (WV-Z505) WESTERN PENDLETON, (WV-Z506) EASTERN PENDLETON</b>				
	01/21/19 00:00 EST		0	Extreme Cold/Wind Chill
	01/21/19 10:00 EST		0	



## Storm Data and Unusual Weather Phenomena - January 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A low pressure system moved up the eastern seaboard of the United States on January 20th, with cold temperatures and strong northwest winds funneling behind the system from the night of the 20th into the morning of the 21st. This was able to produce very low wind chills across eastern West Virginia.

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(WV-Z052) BERKELEY, (WV-Z053) JEFFERSON

	01/29/19 12:00 EST	0		Winter Weather
	01/29/19 19:00 EST	0		

A strong surface cold front crossed the region from west to east on January 29th. As it did so, a wave of low pressure developed along the frontal boundary over southwestern Virginia and moved northeastward to a position near Philadelphia by the evening of the 29th. This led to a rain and snow mix developing ahead of the cold front, but changing over to all snow following the frontal passage. In general, 1 to 2 inches of snow were observed across the far eastern West Virginia panhandle, with very little to no snow reported across the remainder of eastern West Virginia.

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(WV-Z501) WESTERN GRANT, (WV-Z503) WESTERN MINERAL, (WV-Z505) WESTERN PENDLETON

	01/30/19 18:00 EST	0		Extreme Cold/Wind Chill
	01/31/19 10:00 EST	0		

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(WV-Z050) HAMPSHIRE, (WV-Z051) MORGAN, (WV-Z052) BERKELEY, (WV-Z053) JEFFERSON, (WV-Z055) HARDY, (WV-Z502) EASTERN GRANT, (WV-Z504) EASTERN MINERAL, (WV-Z506) EASTERN PENDLETON

	01/30/19 20:00 EST	0		Cold/Wind Chill
	01/31/19 10:00 EST	0		

A low pressure system moved into southeastern Canada on January 30th, with a cold front crossing through the Mid-Atlantic states. Cold temperatures and strong northwest winds followed behind the front on the night of the 30th and into the morning of the 31st. This was able to produce very low wind chills across eastern West Virginia.