

## Storm Data and Unusual Weather Phenomena - December 2019

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

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

	12/13/19 19:00 EST	0	0	Dense Fog
	12/13/19 23:00 EST	0	0	

Moisture underneath a subsidence inversion resulted in areas of dense fog. Visibility was around one-quarter mile.

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

	12/17/19 13:00 EST	0	0	Dense Fog
	12/17/19 15:00 EST	0	0	

Moisture underneath a subsidence inversion resulted in areas of dense fog. Visibility was around one-quarter mile.

### MARYLAND, Central

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

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

A layer of cold air caused rain to freeze on surfaces over the Allegheny Highlands. Ice accumulation was between one and two tenths of an inch.

#### (MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z503) NORTHWEST MONTGOMERY, (MD-Z505) NORTHWEST HOWARD, (MD-Z507) NORTHWEST HARFORD

	12/11/19 00:00 EST	0	0	Winter Weather
	12/11/19 05:00 EST	0	0	

A cold front passed through on the evening of the 11th, but the upper-level trough axis lagged behind by several hours. The upward motion from the trough axis combined with cold air advection to bring a period of snow before dry air eventually took over. Snowfall amounts a coating to an inch across central Maryland. This did impact the morning commute.

#### (MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z501) EXTREME WESTERN ALLEGANY, (MD-Z502) CENTRAL AND EASTERN ALLEGANY

	12/13/19 09:00 EST	0	0	Winter Weather
	12/14/19 04:00 EST	0	0	

Low pressure tracking to the west allowed for warm and moist air to overrun surface colder air in place. However, the surface air was cold enough for a period of freezing rain across northern and central Maryland. Ice amounts ranged from a light glaze to around a tenth of an inch.

#### (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

	12/13/19 19:00 EST	0	0	Dense Fog
	12/13/19 23:00 EST	0	0	

Moisture underneath a subsidence inversion resulted in areas of dense fog. Visibility was around one-quarter mile.

#### (MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z011) SOUTHERN BALTIMORE, (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

	12/16/19 01:00 EST	0	0	Winter Weather
	12/17/19 03:00 EST	0	0	

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

## Storm Data and Unusual Weather Phenomena - December 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	12/16/19 15:00 EST		10K	Ice Storm
	12/17/19 09:00 EST		0	

Low pressure passed by to the west on the 16th into the 17th. Ahead of the low, plenty of cold air remained in place, and this led to a period of snow across northern and central Maryland during the morning of the 16th. Temperatures rose above freezing, causing precipitation to change to rain for most areas. However, across northern Maryland into the Allegheny Highlands, temperatures hovered very close to freezing and this led to some freezing rain later on the 16th into the morning of the 17th.

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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-Z016) CHARLES, (MD-Z503) NORTHWEST MONTGOMERY, (MD-Z504) CENTRAL AND SOUTHEAST MONTGOMERY, (MD-Z505) NORTHWEST HOWARD, (MD-Z506) CENTRAL AND SOUTHEAST HOWARD

12/17/19 13:00 EST	0	Dense Fog
12/17/19 15:00 EST	0	

Moisture underneath a subsidence inversion resulted in areas of dense fog. Visibility was around one-quarter mile.

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(MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z501) EXTREME WESTERN ALLEGANY, (MD-Z502) CENTRAL AND EASTERN ALLEGANY, (MD-Z507) NORTHWEST HARFORD, (MD-Z508) SOUTHEAST HARFORD

12/30/19 06:00 EST	0	Dense Fog
12/30/19 09:00 EST	0	

Moisture underneath a subsidence inversion resulted in areas of dense fog. Visibility was around one-quarter mile.

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(MD-Z014) ANNE ARUNDEL

12/31/19 19:48 EST	0	Coastal Flood
12/31/19 21:18 EST	0	

A southerly flow led to increased tidal anomalies along the western shore of the Chesapeake Bay. Moderate tidal flooding was reported at Annapolis.

### VIRGINIA, North

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(VA-Z507) NORTHERN VIRGINIA BLUE RIDGE, (VA-Z508) CENTRAL VIRGINIA BLUE RIDGE

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

A layer of cold air caused rain to freeze on surfaces over the Blue Ridge Mountains. Ice accumulation was between one and two tenths of an inch.

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(VA-Z501) NORTHERN FAUQUIER, (VA-Z505) WESTERN LOUDOUN, (VA-Z506) EASTERN LOUDOUN, (VA-Z507) NORTHERN VIRGINIA BLUE RIDGE, (VA-Z508) CENTRAL VIRGINIA BLUE RIDGE

12/10/19 22:00 EST	0	Winter Weather
12/11/19 05:00 EST	0	

A cold front passed through on the evening of the 11th, but the upper-level trough axis lagged behind by several hours. The upward motion from the trough axis combined with cold air advection to bring a period of snow before dry air eventually took over. Snowfall amounts were around two inches in the Blue Ridge Mountains and a coating to an inch across northern Virginia. This did impact the morning commute.

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(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-Z501) NORTHERN FAUQUIER, (VA-Z503) WESTERN HIGHLAND, (VA-Z504) EASTERN HIGHLAND, (VA-Z507) NORTHERN VIRGINIA BLUE RIDGE, (VA-Z508) CENTRAL VIRGINIA BLUE RIDGE

12/13/19 04:00 EST	0	Winter Weather
12/13/19 12:00 EST	0	

Low pressure tracking to the west allowed for warm and moist air to overrun surface colder air in place. However, the surface air was cold enough for a period of freezing rain across northern Virginia. Ice amounts ranged from a light glaze to around a tenth of an inch.

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(VA-Z052) PRINCE WILLIAM, (VA-Z053) FAIRFAX, (VA-Z054) ARLINGTON, (VA-Z501) NORTHERN FAUQUIER, (VA-Z505) WESTERN LOUDOUN,

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>(VA-Z506) EASTERN LOUDOUN</b>				
	12/13/19 19:00 EST		0	Dense Fog
	12/13/19 23:00 EST		0	
Moisture underneath a subsidence inversion resulted in areas of dense fog. Visibility was around one-quarter mile.				
<b>(VA-Z025) AUGUSTA, (VA-Z026) ROCKINGHAM, (VA-Z027) SHENANDOAH, (VA-Z028) FREDERICK, (VA-Z029) PAGE, (VA-Z030) WARREN, (VA-Z031) CLARKE, (VA-Z040) RAPPAHANNOCK, (VA-Z501) NORTHERN FAUQUIER, (VA-Z505) WESTERN LOUDOUN</b>				
	12/16/19 01:00 EST		0	Winter Weather
	12/17/19 03:00 EST		0	
Low pressure passed by to the west on the 16th into the 17th. Ahead of the low, plenty of cold air remained in place, and this led to a period of snow across northern Virginia during the morning of the 16th. Temperatures rose above freezing, causing precipitation to change to rain for most areas. However, across extreme northern Virginia, temperatures hovered very close to freezing and this led to some freezing rain later on the 16th into the morning of the 17th.				
<b>(VA-Z031) CLARKE, (VA-Z037) ALBEMARLE, (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</b>				
	12/17/19 13:00 EST		0	Dense Fog
	12/17/19 15:00 EST		0	
Moisture underneath a subsidence inversion resulted in areas of dense fog. Visibility was around one-quarter mile.				
<b>(VA-Z025) AUGUSTA, (VA-Z026) ROCKINGHAM, (VA-Z029) PAGE</b>				
	12/24/19 07:00 EST		0	Dense Fog
	12/24/19 10:00 EST		0	
Radiational cooling and low-level moisture underneath the nocturnal inversion resulted in areas of dense fog. Visibility was around one-quarter mile.				
<b>(VA-Z027) SHENANDOAH, (VA-Z028) FREDERICK, (VA-Z029) PAGE, (VA-Z030) WARREN, (VA-Z031) CLARKE</b>				
	12/30/19 06:00 EST		0	Dense Fog
	12/30/19 09:00 EST		0	
Moisture underneath a subsidence inversion resulted in areas of dense fog. Visibility was around one-quarter mile.				
<b>WEST VIRGINIA, East</b>				
<b>(WV-Z503) WESTERN MINERAL</b>				
	12/01/19 00:00 EST		0	Winter Weather
	12/01/19 12:00 EST		0	
A layer of cold air caused rain to freeze on surfaces over portions of the Allegheny Highlands. Ice accumulation was between one and two tenths of an inch.				
<b>(WV-Z501) WESTERN GRANT, (WV-Z505) WESTERN PENDLETON</b>				
	12/04/19 20:00 EST		0	Winter Weather
	12/05/19 06:00 EST		0	
Cold air picked up moisture from the Great Lakes and as it flowed over the mountains, this led to snow. Snowfall accumulations were around 3 to 6 inches for locations along and west of the Allegheny Front.				
<b>(WV-Z050) HAMPSHIRE, (WV-Z051) MORGAN, (WV-Z052) BERKELEY, (WV-Z053) JEFFERSON, (WV-Z055) HARDY, (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>				
	12/13/19 04:00 EST		0	Winter Weather
	12/14/19 04:00 EST		0	

## Storm Data and Unusual Weather Phenomena - December 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Low pressure tracking to the west allowed for warm and moist air to overrun surface colder air in place. However, the surface air was cold enough for a period of freezing rain. Ice amounts ranged from a light glaze to around a tenth of an inch.

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(WV-Z050) HAMPSHIRE, (WV-Z051) MORGAN, (WV-Z052) BERKELEY, (WV-Z053) JEFFERSON, (WV-Z055) HARDY, (WV-Z501) WESTERN GRANT, (WV-Z502) EASTERN GRANT, (WV-Z504) EASTERN MINERAL

	12/16/19 01:00 EST		0	Winter Weather
	12/17/19 03:00 EST		0	

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(WV-Z503) WESTERN MINERAL

	12/16/19 15:00 EST		15K	Ice Storm
	12/17/19 09:00 EST		0	

Low pressure passed by to the west on the 16th into the 17th. Ahead of the low, plenty of cold air remained in place, and this led to a period of snow on the morning of the 16th. Warmer air worked its way in aloft and this caused snow to change to rain with pockets of freezing rain later on the 16th into the morning of the 17th.

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(WV-Z051) MORGAN, (WV-Z052) BERKELEY, (WV-Z053) JEFFERSON

	12/17/19 15:00 EST		0	Dense Fog
	12/17/19 17:00 EST		0	

Moisture underneath a subsidence inversion resulted in areas of dense fog. Visibility was around one-quarter mile.

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(WV-Z050) HAMPSHIRE, (WV-Z051) MORGAN, (WV-Z052) BERKELEY, (WV-Z053) JEFFERSON, (WV-Z055) HARDY, (WV-Z501) WESTERN GRANT, (WV-Z502) EASTERN GRANT, (WV-Z503) WESTERN MINERAL, (WV-Z504) EASTERN MINERAL

	12/30/19 06:00 EST		0	Dense Fog
	12/30/19 09:00 EST		0	

Moisture underneath a subsidence inversion resulted in areas of dense fog. Visibility was around one-quarter mile.