

Storm Data and Unusual Weather Phenomena - December 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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MARYLAND, Central

(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z007) HARFORD, (MD-Z501) EXTREME WESTERN ALLEGANY, (MD-Z502) CENTRAL AND EASTERN ALLEGANY

12/02/14 01:00 EST	0	Winter Weather
12/02/14 23:00 EST	0	

Cold air damming situation evolved Tuesday as a cold front stalled just to the south of the Mid-Atlantic region and high pressure built in over New England. This synoptic set up resulted in persisting northeasterly flow that kept surface temperatures at or just below freezing while southwesterly flow in the lower levels provided a deep warm layer. This combination of temperatures with the overrunning precipitation resulted in ice accumulations across most of northern and western Maryland.

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

12/04/14 17:00 EST	0	Winter Weather
12/05/14 12:00 EST	0	

A passing upper level disturbance triggered light rain across the Mid-Atlantic. High pressure building south from New England resulted in a wedge of cold air, keeping surface temperatures at or just below freezing mainly at higher elevations, which resulted in areas of light ice accumulation.

(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z006) NORTHERN BALTIMORE, (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, (MD-Z507) NORTHWEST HARFORD

12/08/14 21:00 EST	0	Winter Weather
12/09/14 12:00 EST	0	

(MD-Z005) CARROLL

12/08/14 23:00 EST	0	Ice Storm
12/09/14 12:00 EST	0	

Cold air damming situation as high pressure retreated to the north of the area and low pressure formed over the Mid-Atlantic region. The northeast flow kept temperatures right around freezing during the evening and overnight hours while the forming low brought plenty of moisture, resulting in on-going precipitation for most of the night and into the morning of the 9th.

(MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z503) NORTHWEST MONTGOMERY, (MD-Z504) CENTRAL AND SOUTHEAST MONTGOMERY, (MD-Z505) NORTHWEST HOWARD

12/16/14 02:00 EST	0	Dense Fog
12/16/14 07:30 EST	0	

Southwesterly flow as a warm front lifted north through region advected in plenty of moisture that resulted in areas of dense fog across portions of central and eastern Maryland.

(MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z503) NORTHWEST MONTGOMERY, (MD-Z504) CENTRAL AND SOUTHEAST MONTGOMERY, (MD-Z505) NORTHWEST HOWARD

12/16/14 19:15 EST	0	Dense Fog
12/17/14 04:15 EST	0	

Light winds and a saturated airmass resulted in widespread dense fog across north central and northern portions of Baltimore Metro.

(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z501) EXTREME WESTERN ALLEGANY, (MD-Z503) NORTHWEST MONTGOMERY, (MD-Z504) CENTRAL AND SOUTHEAST MONTGOMERY, (MD-Z505) NORTHWEST HOWARD, (MD-Z507) NORTHWEST HARFORD

12/22/14 09:00 EST	0	Winter Weather
12/23/14 08:00 EST	0	

Low pressure moving through the Mid-Atlantic brought widespread precipitation that overrode persisting surface cold air, resulting in freezing rain, mainly at elevated locations.

(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z014) ANNE ARUNDEL, (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-Z508)

Storm Data and Unusual Weather Phenomena - December 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
SOUTHEAST HARFORD				
	12/23/14 04:45 EST		0	Dense Fog
	12/24/14 12:25 EST		0	

High pressure over the region resulted in light and variable winds. Moisture advection from a coastal low pressure combining with the light winds resulted in an extended period of dense fog.

(MD-Z501) EXTREME WESTERN ALLEGANY

	12/23/14 05:20 EST		0	Dense Fog
	12/23/14 08:45 EST		0	

High pressure over the region resulted in light and variable winds. Moisture advection from a coastal low pressure combining with the light winds resulted in an extended period of dense fog.

(MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z014) ANNE ARUNDEL, (MD-Z018) CALVERT, (MD-Z502) CENTRAL AND EASTERN ALLEGANY, (MD-Z503) NORTHWEST MONTGOMERY, (MD-Z505) NORTHWEST HOWARD, (MD-Z507) NORTHWEST HARFORD, (MD-Z508) SOUTHEAST HARFORD

	12/24/14 15:30 EST		0	Dense Fog
	12/24/14 22:15 EST		0	

Southerly flow ahead of an approaching cold front ushered in moist air. The warmer, moist air flowing over cold surface temperatures combining with light winds resulted in widespread dense fog.

VIRGINIA, North

(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-Z052) PRINCE WILLIAM, (VA-Z503) WESTERN HIGHLAND, (VA-Z504) EASTERN HIGHLAND

	12/02/14 01:00 EST		0	Winter Weather
	12/02/14 23:00 EST		0	

Cold air damming situation evolved Tuesday as a cold front stalled just to the south of the Mid-Atlantic region and high pressure built in over New England. This synoptic set up resulted in persisting northeasterly flow that kept surface temperatures at or just below freezing while southwesterly flow in the lower levels provided a deep warm layer. This combination of temperatures with the overrunning precipitation resulted in ice accumulations across most of northern and western Virginia.

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

	12/04/14 17:00 EST		0	Winter Weather
	12/05/14 12:00 EST		0	

A passing upper level disturbance triggered light rain across the Mid-Atlantic. High pressure building south from New England resulted in a wedge of cold air, keeping surface temperatures at or just below freezing mainly at higher elevations, which resulted in areas of light ice accumulation.

(VA-Z025) AUGUSTA, (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-Z051) CULPEPER, (VA-Z053) FAIRFAX, (VA-Z501) NORTHERN FAUQUIER, (VA-Z502) SOUTHERN FAUQUIER, (VA-Z503) WESTERN HIGHLAND, (VA-Z504) EASTERN HIGHLAND, (VA-Z505) WESTERN LOUDOUN, (VA-Z506) EASTERN LOUDOUN, (VA-Z507) NORTHERN VIRGINIA BLUE RIDGE, (VA-Z508) CENTRAL VIRGINIA BLUE RIDGE

	12/08/14 19:00 EST		0	Winter Weather
	12/09/14 14:00 EST		0	

(VA-Z052) PRINCE WILLIAM

	12/08/14 21:00 EST		0	Ice Storm
	12/09/14 10:00 EST		0	

Cold air damming situation as high pressure retreated to the north of the area and low pressure formed over the Mid-Atlantic region. The northeast flow kept temperatures right around freezing during the evening and overnight hours while the forming low brought plenty of moisture, resulting in on-going precipitation for most of the night and into the morning of the 9th.

(VA-Z508) CENTRAL VIRGINIA BLUE RIDGE

Storm Data and Unusual Weather Phenomena - December 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	12/14/14 10:15 EST		0	High Wind (MAX 50 kt)
	12/14/14 10:15 EST		0	

Deep layer mixing due to warming temperatures from down sloping winds as surface high pressure built in allowed for gusty winds to mix to the surface, with high wind gusts noted at the highest elevations of the Blue Ridge.

(VA-Z028) FREDERICK, (VA-Z031) CLARKE, (VA-Z040) RAPPAHANNOCK, (VA-Z050) ORANGE, (VA-Z051) CULPEPER, (VA-Z052) PRINCE WILLIAM, (VA-Z055) STAFFORD, (VA-Z056) SPOTSYLVANIA, (VA-Z501) NORTHERN FAUQUIER, (VA-Z502) SOUTHERN FAUQUIER, (VA-Z505) WESTERN LOUDOUN, (VA-Z506) EASTERN LOUDOUN

12/16/14 22:10 EST	0	Dense Fog
12/17/14 09:05 EST	0	

Light winds and a saturated airmass resulted in widespread dense fog across northern Virginia, the Piedmont, and the Shenandoah Valley.

(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-Z050) ORANGE, (VA-Z051) CULPEPER, (VA-Z052) PRINCE WILLIAM, (VA-Z501) NORTHERN FAUQUIER, (VA-Z502) SOUTHERN FAUQUIER, (VA-Z503) WESTERN HIGHLAND, (VA-Z504) EASTERN HIGHLAND, (VA-Z505) WESTERN LOUDOUN, (VA-Z506) EASTERN LOUDOUN, (VA-Z507) NORTHERN VIRGINIA BLUE RIDGE, (VA-Z508) CENTRAL VIRGINIA BLUE RIDGE

12/22/14 08:00 EST	0	Winter Weather
12/23/14 07:00 EST	0	

Low pressure moving through the Mid-Atlantic brought widespread precipitation that overrode persisting surface cold air, resulting in freezing rain, mainly at elevated locations.

(VA-Z503) WESTERN HIGHLAND, (VA-Z504) EASTERN HIGHLAND

12/22/14 09:35 EST	0	Dense Fog
12/23/14 04:15 EST	0	

High pressure over the region resulted in light and variable winds. Moisture advection from a coastal low pressure combining with the light winds resulted in an extended period of dense fog.

(VA-Z053) FAIRFAX, (VA-Z501) NORTHERN FAUQUIER, (VA-Z503) WESTERN HIGHLAND, (VA-Z504) EASTERN HIGHLAND, (VA-Z505) WESTERN LOUDOUN, (VA-Z506) EASTERN LOUDOUN

12/23/14 01:00 EST	0	Dense Fog
12/24/14 09:35 EST	0	

High pressure over the region resulted in light and variable winds. Moisture advection from a coastal low pressure combining with the light winds resulted in an extended period of dense fog.

(VA-Z053) FAIRFAX, (VA-Z501) NORTHERN FAUQUIER, (VA-Z503) WESTERN HIGHLAND, (VA-Z504) EASTERN HIGHLAND, (VA-Z505) WESTERN LOUDOUN, (VA-Z506) EASTERN LOUDOUN

12/24/14 14:35 EST	0	Dense Fog
12/24/14 22:26 EST	0	

Southerly flow ahead of an approaching cold front ushered in moist air. The warmer, moist air flowing over cold surface temperatures combining with light winds resulted in widespread dense fog.

WEST VIRGINIA, East

(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

12/02/14 01:00 EST	0	Winter Weather
12/02/14 23:00 EST	0	

Cold air damming situation evolved Tuesday as a cold front stalled just to the south of the Mid-Atlantic region and high pressure built in over New England. This synoptic set up resulted in persisting northeasterly flow that kept surface temperatures at or just below freezing while southwesterly flow in the lower levels provided a deep warm layer. This combination of temperatures with the overrunning precipitation resulted in ice accumulations across most of eastern West Virginia.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
(WV-Z050) HAMPSHIRE, (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				
	12/04/14 17:00 EST		0	Winter Weather
	12/05/14 12:00 EST		0	

A passing upper level disturbance triggered light rain across the Mid-Atlantic. High pressure building south from New England resulted in a wedge of cold air, keeping surface temperatures at or just below freezing mainly at higher elevations, which resulted in areas of light ice accumulation.

(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				
	12/08/14 19:00 EST		0	Winter Weather
	12/09/14 12:00 EST		0	

Cold air damming situation as high pressure retreated to the north of the area and low pressure formed over the Mid-Atlantic region. The northeast flow kept temperatures right around freezing during the evening and overnight hours while the forming low brought plenty of moisture, resulting in on-going precipitation for most of the night and into the morning of the 9th.

(WV-Z052) BERKELEY, (WV-Z053) JEFFERSON				
	12/16/14 21:53 EST		0	Dense Fog
	12/17/14 01:15 EST		0	

Light winds and a saturated airmass resulted in widespread dense fog.

(WV-Z051) MORGAN, (WV-Z503) WESTERN MINERAL, (WV-Z504) EASTERN MINERAL, (WV-Z505) WESTERN PENDLETON, (WV-Z506) EASTERN PENDLETON				
	12/22/14 09:35 EST		0	Dense Fog
	12/23/14 08:30 EST		0	

High pressure over the region resulted in light and variable winds. Moisture advection from a coastal low pressure combining with the light winds resulted in an extended period of dense fog.

(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				
	12/22/14 13:00 EST		0	Winter Weather
	12/23/14 00:00 EST		0	

Low pressure moving through the Mid-Atlantic brought widespread precipitation that overrode persisting surface cold air, resulting in freezing rain, mainly at elevated locations.

(WV-Z504) EASTERN MINERAL, (WV-Z505) WESTERN PENDLETON, (WV-Z506) EASTERN PENDLETON				
	12/23/14 19:25 EST		0	Dense Fog
	12/24/14 12:25 EST		0	

High pressure over the region resulted in light and variable winds. Moisture advection from a coastal low pressure combining with the light winds resulted in an extended period of dense fog.

(WV-Z504) EASTERN MINERAL, (WV-Z505) WESTERN PENDLETON, (WV-Z506) EASTERN PENDLETON				
	12/24/14 14:35 EST		0	Dense Fog
	12/24/14 20:30 EST		0	

Southerly flow ahead of an approaching cold front ushered in moist air. The warmer, moist air flowing over cold surface temperatures combining with light winds resulted in widespread dense fog.