

Storm Data and Unusual Weather Phenomena - February 2021

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

TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- POINT LOOKOUT (PTL) [38.04, -76.32]

	02/22/21 13:29 EST	0	Marine Thunderstorm Wind (MG 34 kt)
	02/22/21 13:34 EST	0	Source: Buoy

Wind gusts of up to 34 knots (39 MPH) were measured by a buoy near Point Lookout.

TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- CRISFIELD CG (CRS) [37.97, -75.88]

	02/22/21 13:53 EST	0	Marine Thunderstorm Wind (MG 39 kt)
	02/22/21 14:08 EST	0	Source: Buoy

Wind gusts of up to 39 knots (45 MPH) were measured by a buoy near Crisfield.

TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- RACCOON POINT (RAC) [38.14, -75.79]

	02/22/21 13:59 EST	0	Marine Thunderstorm Wind (MG 35 kt)
	02/22/21 14:09 EST	0	Source: Buoy

Wind gusts of up to 35 knots (40 MPH) were measured by a buoy near Raccoon Point.

A cold front generated a line of heavy showers that produced gale force wind gusts over the lower Maryland portion of the Chesapeake Bay during the early afternoon hours.

DISTRICT OF COLUMBIA

(DC-Z001) DISTRICT OF COLUMBIA

	02/13/21 07:00 EST	0	Ice Storm
	02/14/21 07:00 EST	0	

Low pressure tracked into the Ohio Valley on the 13th before transferring its energy to a coastal low that moved offshore on the 14th. A period of sleet and freezing rain occurred across the area. Ice accumulations were around one-quarter inch.

MARYLAND, Central

(MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z508) SOUTHEAST HARFORD

	02/01/21 00:00 EST	0	Winter Storm
	02/02/21 12:00 EST	0	

Closed low pressure slowly tracked into the Ohio Valley on the 31st before transferring its energy to low pressure off the Mid-Atlantic Coast on the 1st of February. The coastal low slowly tracked northeast while intensifying through midday on February the 2nd.

Snow overspread the area on the 31st of January ahead of the first low. Drier air and warmer air moved in aloft, causing snow to change to a light wintry mix on the night of the 31st into the 1st. However, another period of snow developed as the coastal low strengthened to the east later on the 1st and that continued into the 2nd.

Total snowfall accumulations ranged from around 1 to 3 inches in southern Maryland, to around 3 to 5 inches around Interstate 95, to around 6 to 12 inches west of Interstate 95, with locally 12 to 20 inches in the higher elevations of western Maryland as well as the Catoctin Mountains. Ice accumulation from freezing rain averaged around a tenth to a quarter inch east of the Catoctin Mountains.

(MD-Z001) GARRETT

	02/02/21 22:00 EST	0	Winter Storm
	02/03/21 06:00 EST	0	

Cold air picked up moisture around low pressure, and this resulted in snow for locations along and west of the Allegheny Front. Snowfall totaled up to 6 inches near McHenry.

(MD-Z001) GARRETT, (MD-Z501) EXTREME WESTERN ALLEGANY

Storm Data and Unusual Weather Phenomena - February 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	02/05/21 00:00 EST		0	Winter Weather
	02/05/21 09:00 EST		0	

A cold front passed through early on the 5th. Warm advection ahead of the front led to some light rain. However, there was a layer of cold air that caused rain to freeze on some surfaces in the higher elevations. A light glaze of ice was reported in western Allegany and Garrett Counties.

(MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z507) NORTHWEST HARFORD

02/07/21 02:00 EST	0	Winter Storm
02/07/21 12:00 EST	0	

(MD-Z003) WASHINGTON, (MD-Z008) CECIL, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z016) CHARLES, (MD-Z017) ST. MARY'S, (MD-Z018) CALVERT, (MD-Z503) NORTHWEST MONTGOMERY, (MD-Z504) CENTRAL AND SOUTHEAST MONTGOMERY, (MD-Z505) NORTHWEST HOWARD, (MD-Z506) CENTRAL AND SOUTHEAST HOWARD, (MD-Z508) SOUTHEAST HARFORD

02/07/21 04:00 EST	0	Winter Weather
02/07/21 12:00 EST	0	

Low pressure in the southern stream of the jet passed by just to the south on the morning of the 7th. However, temperatures were marginal due to the lack of cold high pressure to the north. Therefore, precipitation began as rain near Interstate 95 where low-level warm air held on. However, colder air did eventually work its way in causing precipitation to change to snow. Farther west across the farther northern and western suburbs of Washington and Baltimore into north-central and western Maryland, precipitation Mountains and westward, precipitation fell mainly in the form of snow.

Snowfall accumulations ranged less than an inch near Baltimore, to 1 to 3 inches in the nearby northern and western suburbs, to 3 to 6 inches in the farther northern and western suburbs (northwest Harford, Carroll, Frederick, northern Montgomery Counties). Snowfall amounts around 1 to 3 inches occurred near and west of Interstate 81 where there was less precipitation.

(MD-Z001) GARRETT, (MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z505) NORTHWEST HOWARD, (MD-Z507) NORTHWEST HARFORD

02/10/21 19:00 EST	0	Winter Storm
02/11/21 10:00 EST	0	

(MD-Z003) WASHINGTON, (MD-Z008) CECIL, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z014) ANNE ARUNDEL, (MD-Z501) EXTREME WESTERN ALLEGANY, (MD-Z502) CENTRAL AND EASTERN ALLEGANY, (MD-Z503) NORTHWEST MONTGOMERY, (MD-Z504) CENTRAL AND SOUTHEAST MONTGOMERY, (MD-Z506) CENTRAL AND SOUTHEAST HOWARD, (MD-Z508) SOUTHEAST HARFORD

02/10/21 19:00 EST	0	Winter Weather
02/11/21 09:00 EST	0	

Low pressure passed through the area while high pressure to the north supplied cold air. The heaviest snow occurred over northern Maryland, just north from the surface low. Snowfall averaged between 4 to 8 inches for most of these areas. Snowfall averaged around 1 to 3 inches across central Maryland, with less over southern Maryland toward Washington DC.

There was also a light glaze of ice in the Allegheny Highlands as warmer air worked its way in aloft allowing the snow to end as a period of light freezing rain and freezing drizzle.

(MD-Z016) CHARLES, (MD-Z017) ST. MARY'S, (MD-Z018) CALVERT

02/11/21 16:00 EST	0	Winter Weather
02/12/21 09:00 EST	0	

Low pressure passed by to the the south while high pressure remained to our north. The heaviest snow occurred over extreme southern Maryland, where 3 to 5 inches of snow were reported. Snowfall around 1 to 3 inches occurred south of Interstate 66 and US 50.

(MD-Z013) PRINCE GEORGES, (MD-Z014) ANNE ARUNDEL, (MD-Z016) CHARLES, (MD-Z017) ST. MARY'S, (MD-Z018) CALVERT, (MD-Z504) CENTRAL AND SOUTHEAST MONTGOMERY

02/13/21 07:00 EST	0	Ice Storm
02/14/21 07:00 EST	0	

(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z008) CECIL, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z501) EXTREME WESTERN ALLEGANY, (MD-Z502) CENTRAL AND EASTERN ALLEGANY, (MD-Z503) NORTHWEST MONTGOMERY, (MD-Z505) NORTHWEST HOWARD, (MD-Z506) CENTRAL AND SOUTHEAST HOWARD, (MD-Z507) NORTHWEST HARFORD, (MD-Z508) SOUTHEAST HARFORD

Storm Data and Unusual Weather Phenomena - February 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	02/13/21 09:00 EST		0	Winter Weather
	02/14/21 07:00 EST		0	

Low pressure tracked into the Ohio Valley on the 13th before transferring its energy to a coastal low that moved offshore on the 14th. A period of sleet and freezing rain occurred across the area. Ice accumulations ranged from less than a tenth of an inch across western Maryland, to 0.1-0.2" west of Interstate 95, to around a quarter inch near and east of Interstate 95 south of Baltimore into southern Maryland.

(MD-Z001) GARRETT, (MD-Z501) EXTREME WESTERN ALLEGANY

	02/15/21 09:00 EST		0	Winter Storm
	02/16/21 07:00 EST		0	

(MD-Z004) FREDERICK

	02/15/21 09:00 EST		0	Winter Weather
	02/16/21 07:00 EST		0	

A wave of low pressure passed by to the west while high pressure remained entrenched to the north and east, keeping colder air in place. Ice accumulations between one and two tenths of an inch were reported along the higher elevations of northern Maryland from the Catoctin Mountains westward. Ice accumulation around a quarter inch was reported in Garrett and western Allegany Counties. Elsewhere, a light glaze of ice was estimated to be on elevated surfaces in the far northern and western suburbs of Washington and Baltimore, based on radar and temperature observations.

(MD-Z001) GARRETT, (MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z008) CECIL, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z013) PRINCE GEORGES, (MD-Z014) ANNE ARUNDEL, (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, (MD-Z508) SOUTHEAST HARFORD

	02/18/21 04:00 EST		0	Winter Weather
	02/19/21 09:00 EST		0	

(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z017) ST. MARY'S, (MD-Z018) CALVERT, (MD-Z507) NORTHWEST HARFORD

	02/18/21 04:00 EST		0	Winter Storm
	02/19/21 09:00 EST		0	

Low pressure passed by to the west as it tracked into the Ohio Valley and Great Lakes on the 18th into the morning of the 19th, before transferring its energy to a coastal low along the Mid-Atlantic Coast. The coastal low moved out to sea later on the 19th.

Canadian high pressure supplied plenty of low-level cold air, but warmer air worked its way in aloft, and this caused a wintry mix of snow, sleet, and freezing rain. Snow and sleet overspread the area on the early morning of the 18th. Snow and sleet changed to a light wintry mix including freezing rain by the evening of the 18th. Precipitation ended as a period of light snow and sleet on the morning of the 19th.

The highest snowfall accumulations (around 3 to 6 inches) were across northern Maryland east of Interstate 81, but west of Interstate 95 where the heaviest precipitation occurred, and temperatures aloft were cold enough for precipitation to start off as snow. However, mostly sleet occurred in the Washington and Baltimore Metropolitan areas, so accumulations were less (around an inch). Snowfall amounts around 2 to 5 inches were reported across northern Maryland near and west of Interstate 81.

Ice accumulation from freezing rain was up to a tenth of an inch for most areas, but around a quarter inch in southern Maryland where warmer air aloft cause more freezing rain vs. snow or sleet.

(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z008) CECIL, (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

	02/22/21 04:00 EST		0	Winter Weather
	02/22/21 12:00 EST		0	

Low pressure tracked through the Great Lakes and the cold front associated with the low moved toward the area on the 22nd. A southerly flow ahead of the low and its associated cold front ushered in moisture from the Atlantic. Despite the southerly flow, there was still plenty of cold and dry air in place ahead of the system. Therefore, precipitation started off as snow and ice before eventually changing to rain. The heaviest snow was across northern Maryland where 2 to 4 inches of snow fell. Snowfall amounts were around 1 to 2 inches along and west of Interstate 95 with snowfall accumulations less than an inch east of Interstate 95.

Storm Data and Unusual Weather Phenomena - February 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Ice accumulation from freezing rain was less than a tenth of an inch and confined mainly to elevated surfaces near and west of Interstate 95.

(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (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-Z505) NORTHWEST HOWARD, (MD-Z506) CENTRAL AND SOUTHEAST HOWARD

02/28/21 21:00 EST	0	Dense Fog
02/28/21 23:59 EST	0	

Light winds and excessive low level moisture allowed areas of dense fog to form during the evening of the 28th. The fog dissipated before dawn on the 1st.

VIRGINIA, North

(VA-Z025) AUGUSTA, (VA-Z026) ROCKINGHAM, (VA-Z029) PAGE, (VA-Z030) WARREN, (VA-Z501) NORTHERN FAUQUIER, (VA-Z505) WESTERN LOUDOUN, (VA-Z507) NORTHERN VIRGINIA BLUE RIDGE, (VA-Z508) CENTRAL VIRGINIA BLUE RIDGE

02/07/21 02:00 EST	0	Winter Storm
02/07/21 12:00 EST	0	

(VA-Z027) SHENANDOAH, (VA-Z028) FREDERICK, (VA-Z031) CLARKE, (VA-Z037) ALBEMARLE, (VA-Z039) MADISON, (VA-Z040) RAPPAHANNOCK, (VA-Z050) ORANGE, (VA-Z051) CULPEPER, (VA-Z052) PRINCE WILLIAM, (VA-Z053) FAIRFAX, (VA-Z056) SPOTSYLVANIA, (VA-Z057) KING GEORGE, (VA-Z502) SOUTHERN FAUQUIER, (VA-Z503) WESTERN HIGHLAND, (VA-Z504) EASTERN HIGHLAND, (VA-Z506) EASTERN LOUDOUN

02/07/21 02:00 EST	0	Winter Weather
02/07/21 12:00 EST	0	

Low pressure in the southern stream of the jet passed by just to the south on the morning of the 7th. However, temperatures were marginal due to the lack of cold high pressure to the north. Therefore, precipitation began as rain east of the Blue Ridge Mountains where low-level warm air held on. However, colder air did eventually work its way in causing precipitation to change to snow. Farther west for locations near the Blue Ridge Mountains and westward, precipitation fell mainly in the form of snow.

Snowfall accumulations ranged from around 1 to 2 inches near Interstate 95, with 3 to 6 inches near the Blue Ridge Mountains into the Shenandoah Valley. Snowfall accumulations were around 1 to 3 inches farther west toward the Potomac Highlands due to less precipitation.

(VA-Z028) FREDERICK, (VA-Z503) WESTERN HIGHLAND, (VA-Z504) EASTERN HIGHLAND, (VA-Z507) NORTHERN VIRGINIA BLUE RIDGE, (VA-Z508) CENTRAL VIRGINIA BLUE RIDGE

02/10/21 19:00 EST	0	Winter Weather
02/11/21 09:00 EST	0	

Low pressure passed through the area while high pressure to the north supplied cold air. The heaviest snow occurred over northern Virginia, north of the surface low. Snowfall amounts across these areas were around 2 to 4 inches in the northern Shenandoah Valley toward the Blue Ridge Mountains. Snowfall amounts were less across central Virginia and the nearby suburbs of Washington DC, where precipitation amounts were lighter and there was some warmer air as well.

A light glaze of ice occurred over the Allegheny Highlands in Highland County as warmer air worked its way in aloft, causing precipitation to end as light freezing rain and freezing drizzle.

(VA-Z025) AUGUSTA, (VA-Z026) ROCKINGHAM, (VA-Z029) PAGE, (VA-Z036) NELSON, (VA-Z038) GREENE, (VA-Z039) MADISON, (VA-Z051) CULPEPER, (VA-Z055) STAFFORD, (VA-Z503) WESTERN HIGHLAND, (VA-Z504) EASTERN HIGHLAND, (VA-Z507) NORTHERN VIRGINIA BLUE RIDGE, (VA-Z508) CENTRAL VIRGINIA BLUE RIDGE

02/11/21 16:00 EST	0	Winter Weather
02/12/21 09:00 EST	0	

(VA-Z037) ALBEMARLE, (VA-Z050) ORANGE, (VA-Z056) SPOTSYLVANIA, (VA-Z057) KING GEORGE, (VA-Z508) CENTRAL VIRGINIA BLUE RIDGE

02/11/21 16:00 EST	0	Winter Storm
02/12/21 09:00 EST	0	

Low pressure passed by to the the south while high pressure remained to our north. The heaviest snow occurred around and south of Interstate 64 in central Virginia, into the Virginia Piedmont, where snowfall averaged around 3 to 6 inches. Snowfall amounts around 1 to 3 inches occurred south of Interstate 66.

Storm Data and Unusual Weather Phenomena - February 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
(VA-Z025) AUGUSTA, (VA-Z038) GREENE, (VA-Z039) MADISON, (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-Z502) SOUTHERN FAUQUIER, (VA-Z507) NORTHERN VIRGINIA BLUE RIDGE				
	02/13/21 07:00 EST		0	Ice Storm
	02/14/21 07:00 EST		0	
(VA-Z036) NELSON, (VA-Z037) ALBEMARLE, (VA-Z508) CENTRAL VIRGINIA BLUE RIDGE				
	02/13/21 07:00 EST		0	Winter Storm
	02/14/21 07:00 EST		0	
(VA-Z027) SHENANDOAH, (VA-Z028) FREDERICK, (VA-Z030) WARREN, (VA-Z031) CLARKE, (VA-Z504) EASTERN HIGHLAND, (VA-Z505) WESTERN LOUDOUN				
	02/13/21 09:00 EST		0	Winter Weather
	02/14/21 07:00 EST		0	
<p>Low pressure tracked into the Ohio Valley on the 13th before transferring its energy to a coastal low that moved offshore on the 14th. A period of sleet and freezing rain occurred across the area. Ice accumulations ranged from less than a tenth of an inch across the northern Shenandoah Valley, to 0.1-0.2" west of Interstate 95 into the central Shenandoah Valley, to around a quarter near and east of Interstate 95.</p>				
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]				
	02/16/21 00:37 EST		0	Flood (due to Heavy Rain)
	02/16/21 02:25 EST		0	Source: River/Stream Gage
<p>The stream gage on Accotink Creek at Strathmeade Springs, VA. rose above flood stage during the specified time, reaching a max flood stage of 252.10 feet at 1:15 AM EST. At 251.5 feet elevation, Woodburn Road is covered by approximately six inches of water at its lowest point. Portions of the Cross County Trail are also flooded. At an elevation of 252.5 feet, both Woodburn Road and Prosperity Avenue become flooded by at least six inches of water.</p>				
<p>Low pressure brought rain and wintry precipitation to the region February 15th into the 16th. A few instances of minor flooding were observed, but nothing too widespread.</p>				
(VA-Z503) WESTERN HIGHLAND				
	02/17/21 03:00 EST		0	Cold/Wind Chill
	02/17/21 07:00 EST		0	
<p>A blustery northwest flow from a Canadian airmass led to wind chills around minus ten degrees over western Highland County.</p>				
(VA-Z025) AUGUSTA, (VA-Z026) ROCKINGHAM, (VA-Z027) SHENANDOAH, (VA-Z028) FREDERICK, (VA-Z030) WARREN, (VA-Z031) CLARKE, (VA-Z038) GREENE, (VA-Z039) MADISON, (VA-Z040) RAPPAHANNOCK, (VA-Z051) CULPEPER, (VA-Z052) PRINCE WILLIAM, (VA-Z053) FAIRFAX, (VA-Z054) ARLINGTON, (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				
	02/18/21 04:00 EST		0	Winter Weather
	02/19/21 09:00 EST		0	
(VA-Z028) FREDERICK, (VA-Z031) CLARKE, (VA-Z057) KING GEORGE				
	02/18/21 04:00 EST		0	Winter Storm
	02/19/21 09:00 EST		0	
<p>Low pressure passed by to the west as it tracked into the Ohio Valley and Great Lakes on the 18th into the morning of the 19th, before transferring its energy to a coastal low along the Mid-Atlantic Coast. The coastal low moved out to sea later on the 19th.</p>				
<p>Canadian high pressure supplied plenty of low-level cold air, but warmer air worked its way in aloft, and this caused a wintry mix of snow, sleet, and freezing rain. Snow and sleet overspread the area on the early morning of the 18th. Snow and sleet changed to a light wintry mix including freezing rain by the evening of the 18th. Precipitation ended as a period of light snow and sleet on the morning of the 19th.</p>				
<p>The highest snowfall accumulations (around 4 to 8 inches) were across the northern Shenandoah Valley toward the northern Blue Ridge Mountains of Virginia where the heaviest precipitation occurred, and temperatures aloft were cold enough for precipitation to start off as snow. However, mostly sleet occurred across central Virginia toward the Washington Metropolitan area, so accumulations were less (around an inch or two).</p>				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Ice accumulation from freezing rain was up to a tenth of an inch for most areas, but around a tenth to a quarter inch in the Virginia Piedmont where warmer air aloft cause more freezing rain vs. snow or sleet.

(VA-Z025) AUGUSTA, (VA-Z026) ROCKINGHAM, (VA-Z027) SHENANDOAH, (VA-Z028) FREDERICK, (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-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

02/22/21 04:00 EST	0	Winter Weather
02/22/21 12:00 EST	0	

Low pressure tracked through the Great Lakes and the cold front associated with the low moved toward the area on the 22nd. A southerly flow ahead of the low and its associated cold front ushered in moisture from the Atlantic. Despite the southerly flow, there was still plenty of cold and dry air in place ahead of the system. Therefore, precipitation started off as snow and ice before eventually changing to rain. The heaviest snow was across the northern Shenandoah Valley with 1 to 2 inches for most areas. Elsewhere, snowfall amounts were generally less than one inch.

Ice accumulation from freezing rain was less than a tenth of an inch for most areas and confined mainly to elevated surfaces near and west of Interstate 95.

(VA-Z025) AUGUSTA, (VA-Z026) ROCKINGHAM, (VA-Z507) NORTHERN VIRGINIA BLUE RIDGE, (VA-Z508) CENTRAL VIRGINIA BLUE RIDGE

02/26/21 18:00 EST	0	Winter Weather
02/27/21 06:00 EST	0	

Low pressure passed by to the south on the 26th into the 27th. A period of snow occurred, mainly in the higher elevations of central Virginia where 1 to 3 inches of snow fell.

(VA-Z028) FREDERICK, (VA-Z031) CLARKE, (VA-Z052) PRINCE WILLIAM, (VA-Z053) FAIRFAX, (VA-Z056) SPOTSYLVANIA, (VA-Z057) KING GEORGE, (VA-Z501) NORTHERN FAUQUIER, (VA-Z502) SOUTHERN FAUQUIER, (VA-Z505) WESTERN LOUDOUN, (VA-Z506) EASTERN LOUDOUN

02/28/21 21:00 EST	0	Dense Fog
02/28/21 23:59 EST	0	

Light winds and excessive low level moisture allowed areas of dense fog to form during the evening of the 28th. The fog dissipated before dawn on the 1st.

WEST VIRGINIA, East

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

02/02/21 22:00 EST	0	Winter Weather
02/03/21 05:00 EST	0	

Cold air flowing over the mountains caused snow to develop along and west of the Allegheny Front. Snowfall totaled up to 3.3 inches in Bayard, WV.

(WV-Z050) HAMPSHIRE, (WV-Z051) MORGAN, (WV-Z052) BERKELEY, (WV-Z053) JEFFERSON, (WV-Z055) HARDY, (WV-Z505) WESTERN PENDLETON, (WV-Z506) EASTERN PENDLETON

02/07/21 02:00 EST	0	Winter Weather
02/07/21 12:00 EST	0	

Low pressure in the southern stream of the jet passed by just to the south on the morning of the 7th. There was enough cold air for snow to occur. Snowfall accumulations ranged from 2 to 4 inches near and east of Interstate 81 with 1 to 2 inches farther west due to less precipitation.

(WV-Z050) HAMPSHIRE, (WV-Z051) MORGAN, (WV-Z052) BERKELEY, (WV-Z053) JEFFERSON, (WV-Z055) HARDY, (WV-Z501) WESTERN GRANT, (WV-Z502) EASTERN GRANT, (WV-Z505) WESTERN PENDLETON, (WV-Z506) EASTERN PENDLETON

02/10/21 19:00 EST	0	Winter Weather
02/11/21 09:00 EST	0	

(WV-Z050) HAMPSHIRE, (WV-Z051) MORGAN, (WV-Z501) WESTERN GRANT, (WV-Z503) WESTERN MINERAL, (WV-Z504) EASTERN MINERAL

Storm Data and Unusual Weather Phenomena - February 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	02/10/21 19:00 EST		0	Winter Storm
	02/11/21 10:00 EST		0	

Low pressure passed through the area while high pressure to the north supplied cold air. The heaviest snow occurred over the eastern Panhandle of West Virginia toward the Allegheny Highlands in Mineral and Grant Counties, just north from the surface low. Snowfall averaged between 4 to 8 inches for most of these areas, although there was a report of 9 inches at Bayard. Elsewhere, snowfall averaged around 1 to 3 inches. There was also a light glaze of ice in the Allegheny Highlands as warmer air worked its way in aloft allowing the snow to end as a period of light freezing rain and freezing drizzle.

(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

	02/13/21 09:00 EST		0	Winter Weather
	02/14/21 07:00 EST		0	

Low pressure tracked into the Ohio Valley on the 13th before transferring its energy to a coastal low that moved offshore on the 14th. A period of sleet and freezing rain occurred across the area. Ice accumulation up to one tenth of an inch occurred.

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

	02/15/21 09:00 EST		0	Winter Weather
	02/16/21 07:00 EST		0	

A wave of pressure passed by to the west while high pressure remained entrenched to the north and east, keeping colder air in place. Ice accumulations between one and two tenths of an inch were reported along the higher elevations of the Allegheny Highlands in West Virginia. Elsewhere, a light glaze of ice was estimated to be on elevated surfaces based on radar and temperature observations.

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

	02/17/21 03:00 EST		0	Cold/Wind Chill
	02/17/21 07:00 EST		0	

A blustery northwest flow from a Canadian airmass led to wind chills around minus ten degrees over western Grant and western Pendleton Counties.

(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

	02/18/21 04:00 EST		0	Winter Weather
	02/19/21 09:00 EST		0	

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

	02/18/21 04:00 EST		0	Winter Storm
	02/18/21 13:00 EST		0	

Low pressure passed by to the west as it tracked into the Ohio Valley and Great Lakes on the 18th into the morning of the 19th, before transferring its energy to a coastal low along the Mid-Atlantic Coast. The coastal low moved out to sea later on the 19th.

Canadian high pressure supplied plenty of low-level cold air, but warmer air worked its way in aloft, and this caused a wintry mix of snow, sleet, and freezing rain. Snow and sleet overspread the area on the early morning of the 18th. Snow and sleet changed to a light wintry mix including freezing rain by the evening of the 18th. Precipitation ended as a period of light snow and sleet on the morning of the 19th.

The highest snowfall accumulations were across the eastern Panhandle of West Virginia toward the Potomac Highlands (around 4 to 8 inches of snow) where the heaviest precipitation occurred while temperatures will still cold enough for snow.

Ice accumulation from freezing rain was up to a tenth of an inch for most areas, mostly on the evening of the 18th into the overnight.

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

	02/22/21 04:00 EST		0	Winter Weather
	02/22/21 12:00 EST		0	

Low pressure tracked through the Great Lakes and the cold front associated with the low moved toward the area on the 22nd. A southerly flow ahead of the low and its associated cold front ushered in moisture from the Atlantic. Despite the southerly flow, there

Storm Data and Unusual Weather Phenomena - February 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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was still plenty of cold and dry air in place ahead of the system. Therefore, precipitation started off as snow and ice before eventually changing to rain. The heaviest snow was across the eastern Panhandle of West Virginia with 1 to 3 inches for most areas. Elsewhere, snowfall amounts were generally around one inch or less.

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

02/26/21 18:00 EST			0	Winter Weather
02/27/21 06:00 EST			0	

Low pressure passed by to the south on the 26th into the 27th. A period of snow occurred, mainly in the higher elevations of western Grant and western Pendleton Counties, where 2 to 4 inches of snow fell.

MINERAL COUNTY --- 0.2 E KEYSER [39.43, -78.98], 0.3 SSW NEW CREEK [39.37, -79.03], 0.4 W NEW CREEK [39.37, -79.04], 1.2 WSW KEYSER [39.42, -79.00], 1.8 ESE PIEDMONT [39.46, -79.02], 2.4 E PIEDMONT [39.47, -79.01], 2.4 NE LIMESTONE [39.46, -78.94]

02/28/21 14:46 EST			0	Flood (due to Heavy Rain)
02/28/21 16:46 EST			0	Source: 911 Call Center

Multiple reports of roads being blocked by high water all across Mineral County...Up to 3 feet deep in one case...

MINERAL COUNTY --- 1.0 NNE REESES MILL [39.44, -78.84], 0.9 SSE CHAMPWOOD [39.44, -78.82], 0.9 ESE PATTERSON CREEK [39.56, -78.72], 0.3 NW PATTERSON CREEK [39.57, -78.73]

02/28/21 15:56 EST			0	Flood (due to Heavy Rain)
02/28/21 23:59 EST			0	Source: River/Stream Gage

The stream gauge on Patterson Creek rose above flood stage during the specified timeframe, starting at 3:56 PM EST on February 28th, and continued into March 1st as well. Will include that in March StormData. The peak stream level reached during the time of flooding was 10.07 feet at 3:00 AM EST on March 1st, 2021. At 10 feet, water approaches several homes along the creek between Champwood and the town of Patterson Creek. Moderate to widespread agricultural flooding is occurring along this same stretch. Both Foreback Road and a portion of Creek View Lane are flooded near the creek.

Low pressure over the midwestern United States brought a warm front across the region February 28th. Warm advection precipitation, enhanced by upslope flow and favorable upper jet dynamics, lead to an inch or two of rainfall in western portions of our forecast area. This, along with partial melting of snowpack in the mountains, lead to some isolated flooding across eastern WV.

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

02/28/21 21:00 EST			0	Dense Fog
02/28/21 23:59 EST			0	

Light winds and excessive low level moisture allowed areas of dense fog to form during the evening of the 28th. The fog dissipated before dawn on the 1st.