

## Storm Data and Unusual Weather Phenomena - December 2022

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

<b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- RACCOON POINT (RAC) [38.14, -75.79]</b>				
	12/23/22 10:07 EST		0	Marine Thunderstorm Wind (MG 55 kt)
	12/23/22 10:07 EST		0	Source: Buoy

A wind gust of 55 knots (63 MPH) was measured by the Raccoon Point WeatherFlow sensor (XRAC).

A strong cold front produced a line of squalls and a brief period of storm-force winds over portions of the tidal Potomac River and the Chesapeake Bay.

### DISTRICT OF COLUMBIA

<b>(DC-Z001) DISTRICT OF COLUMBIA</b>				
	12/23/22 19:00 EST		0	Cold/Wind Chill
	12/24/22 10:00 EST		0	

A cold northwest wind behind an arctic cold front caused wind chills to drop to around -5 to -10 degrees the evening of the 23rd through the morning of the 24th.

### MARYLAND, Central

<b>(MD-Z501) EXTREME WESTERN ALLEGANY, (MD-Z502) CENTRAL AND EASTERN ALLEGANY</b>				
	12/06/22 01:45 EST		0	Winter Weather
	12/06/22 07:00 EST		0	

A weak low passed by to the west, causing southerly winds to overrun colder air near the surface. This resulted in freezing rain across the higher elevations in the Allegheny and Potomac Highlands where temperatures were just below freezing. Ice accumulation totaled up to around a trace to a few hundredths of an inch, but this led to icy roads that caused several accidents.

<b>(MD-Z001) GARRETT, (MD-Z501) EXTREME WESTERN ALLEGANY</b>				
	12/09/22 22:00 EST		0	Winter Weather
	12/10/22 10:00 EST		0	

A weak low passed by to the west, causing southerly winds to overrun colder air near the surface. This resulted in freezing rain across the higher elevations in the Allegheny Highlands where temperatures were just below freezing. Ice accumulation totaled a trace to a few hundredths of an inch.

<b>(MD-Z001) GARRETT, (MD-Z501) EXTREME WESTERN ALLEGANY</b>				
	12/10/22 21:35 EST		0	Winter Weather
	12/11/22 10:00 EST		0	

A weak low passed by to the north, causing a warm front to overrun colder air near the surface. This resulted in freezing rain across the higher elevations in the Allegheny Highlands where temperatures were just below freezing. Ice accumulation totaled a trace to a few hundredths of an inch.

<b>(MD-Z001) GARRETT, (MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z501) EXTREME WESTERN ALLEGANY, (MD-Z502) CENTRAL AND EASTERN ALLEGANY</b>				
	12/14/22 19:00 EST		0	Ice Storm
	12/15/22 22:00 EST		0	

An area of low pressure passed by to the west with another area of low pressure developing near the Chesapeake Bay. This resulted in southeasterly winds to overrun colder air near the surface and a prolonged wintry mix/freezing rain event across the Allegheny and Potomac Highlands where temperatures were just below freezing. Ice accumulations totaled one quarter to three quarters of an inch. Sleet accumulations totaled upwards of 2" as well. This led to numerous accidents, downed trees and power lines which resulted in isolated power outages.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>(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</b>				
	12/14/22 22:00 EST		0	Winter Weather
	12/15/22 16:00 EST		0	
<p>An area of low pressure passed by to the west with another area of low pressure developing near the Chesapeake Bay. This resulted in southeasterly winds to overrun colder air near the surface and a period of freezing rain and sleet. Sleet accumulations were less than one inch and ice accumulations totaled a trace to two tenths of an inch. This led to several accidents.</p>				
<b>PRINCE GEORGE'S COUNTY --- 0.3 SSE UPPER MARLBORO [38.82, -76.75], 0.5 SSW UPPER MARLBORO [38.81, -76.75], 0.5 S UPPER MARLBORO [38.81, -76.75], 0.5 SE UPPER MARLBORO [38.81, -76.74]</b>				
	12/15/22 03:37 EST		0	Flood (due to Heavy Rain)
	12/16/22 12:45 EST		0	Source: River/Stream Gage
<p>A USGS stream gauge located along the Western Branch near Upper Marlboro reached minor flood stage with crest of 11.43 feet. At eleven feet, the Water Street bridge in Upper Marlboro is completely covered by water.</p>				
<b>ST. MARY'S COUNTY --- 1.0 NNW GREAT MILLS [38.24, -76.50], 1.2 NNW GREAT MILLS [38.25, -76.51], 1.0 NNW GREAT MILLS [38.24, -76.51], 0.9 NNW GREAT MILLS [38.24, -76.51], 0.3 NE GREAT MILLS [38.23, -76.50], 0.5 ENE GREAT MILLS [38.23, -76.49]</b>				
	12/15/22 20:30 EST		0	Flood (due to Heavy Rain)
	12/16/22 00:51 EST		0	Source: River/Stream Gage
<p>A USGS stream gauge located along the Opequan Creek near Martinsburg reached minor flood stage with crest of 10.04 feet. At ten feet, Flat Iron Road begins to flood with water in some yards in Great Mills.</p>				
<p>An area of low pressure interacted with a warm front resulting in a widespread one to three inches of rain. This resulted in small streams overflowing their banks and river flooding.</p>				
<b>(MD-Z014) ANNE ARUNDEL, (MD-Z017) ST. MARY'S</b>				
	12/15/22 19:00 EST		0	Coastal Flood
	12/16/22 00:36 EST		0	
<p>Low-end moderate coastal flooding occurred at Annapolis on the evening of Dec 15 2022.</p>				
<b>(MD-Z001) GARRETT, (MD-Z501) EXTREME WESTERN ALLEGANY</b>				
	12/22/22 04:00 EST		0	Winter Storm
	12/22/22 18:00 EST		0	
<p>A wave of wintry precipitation developed over the region with temperatures at or just below freezing. This resulted in a period of snow, sleet, and freezing rain that eventually turned to freezing drizzle during the afternoon and evening. Snow/sleet accumulations totaled four to seven inches and ice accumulations totaled a tenth to one quarter of an inch. This led to several accidents.</p>				
<b>(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z502) CENTRAL AND EASTERN ALLEGANY, (MD-Z503) NORTHWEST MONTGOMERY, (MD-Z505) NORTHWEST HOWARD, (MD-Z507) NORTHWEST HARFORD</b>				
	12/22/22 04:00 EST		0	Winter Weather
	12/22/22 18:00 EST		0	
<p>A wave of wintry precipitation developed over the region with temperatures at or just below freezing. This resulted in a period of snow, sleet, and freezing rain that eventually turned to rain during the late morning and afternoon. Snow/sleet accumulations totaled one to four inches and ice accumulations totaled a few hundredths to one tenth of an inch. This led to several accidents.</p>				
<b>FREDERICK COUNTY --- 0.2 ESE LIME KILN [39.35, -77.43], 0.2 SE LIME KILN [39.35, -77.43], 0.3 SE LIME KILN [39.35, -77.43], 0.3 ESE LIME KILN [39.35, -77.43]</b>				
	12/22/22 21:30 EST		0	Flood (due to Heavy Rain)
	12/23/22 08:00 EST		0	Source: 911 Call Center
<p>Lime Kiln Road at Buckeystown Road closed due to high water/flooding. Several other roads closed nearby.</p>				
<b>FREDERICK COUNTY --- 6.1 E EMMITSBURG [39.70, -77.21], 5.8 E EMMITSBURG [39.70, -77.22], 6.0 E EMMITSBURG [39.70, -77.22], 6.2 E EMMITSBURG [39.70, -77.21]</b>				
	12/23/22 05:33 EST		0	Flood (due to Heavy Rain)
	12/23/22 10:52 EST		0	Source: River/Stream Gage

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A USGS stream gauge located along the Monocacy River near Bridgeport reached minor flood stage with crest of 13.41 feet. At thirteen feet, Baptist Road near Bridgeport begins to flood.

A coastal low pressure system interacted with a warm front resulting in a widespread two to three inches of rain with localized amounts up to four inches. This resulted in road closures due to high water and small streams overflowing their banks. River flooding also occurred.

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**(MD-Z001) GARRETT, (MD-Z004) FREDERICK, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z014) ANNE ARUNDEL**

12/23/22 05:00 EST	1	0	High Wind (MAX 55 kt)
12/24/22 02:00 EST		0	

Direct Fatalities: M55VE

Strong gradient winds developed behind a strong Arctic cold front that moved through the area on December 23. Wind gusts up to 63 mph were observed in Garrett, Frederick, Baltimore, and Anne Arundel Counties. A 55-year-old man died after a tree fell on his car near Thurmont, Maryland.

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

12/23/22 06:00 EST		0	Winter Weather
12/23/22 18:00 EST		0	

A potent arctic front moved through the area bringing one to three inches of snow and wind gusts up to 60 mph during the morning hours of December 23rd. Blowing and drifting of snow resulted in visibilities below one-half mile at times.

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

12/23/22 06:00 EST		0	Extreme Cold/Wind Chill
12/24/22 18:00 EST		0	

A cold northwest wind behind an arctic cold front caused wind chills to drop to around -25 to -40 degrees the day of the 23rd through the early afternoon of the 24th.

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**(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-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) NORTHWEST HOWARD, (MD-Z506) CENTRAL AND SOUTHEAST HOWARD, (MD-Z507) NORTHWEST HARFORD, (MD-Z508) SOUTHEAST HARFORD**

12/23/22 10:00 EST		0	Cold/Wind Chill
12/24/22 10:00 EST		0	

A cold northwest wind behind an arctic cold front caused wind chills to drop to around -5 near the Chesapeake Bay to -20 degrees in western Maryland the day of the 23rd through the early afternoon of the 24th.

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

12/24/22 10:00 EST		0	Cold/Wind Chill
12/25/22 12:00 EST		0	

A cold northwest wind behind an arctic cold front caused wind chills to continue to range between -10 and -20 degrees during the afternoon of the 24th into the morning of the 25th.

### VIRGINIA, North

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**(VA-Z025) AUGUSTA, (VA-Z026) ROCKINGHAM, (VA-Z027) SHENANDOAH, (VA-Z028) FREDERICK, (VA-Z029) PAGE, (VA-Z503) WESTERN HIGHLAND, (VA-Z504) EASTERN HIGHLAND, (VA-Z507) NORTHERN VIRGINIA BLUE RIDGE, (VA-Z508) CENTRAL VIRGINIA BLUE RIDGE**

12/14/22 19:00 EST		0	Ice Storm
12/15/22 22:00 EST		0	

An area of low pressure passed by to the west with another area of low pressure developing near the Chesapeake Bay. This resulted in southeasterly winds to overrun colder air near the surface and a prolonged wintry mix/freezing rain event across the Allegheny and Potomac Highlands where temperatures were just below freezing. Ice accumulations totaled one quarter to three quarters for most, with upwards of one inch across the higher terrain of the Blue Ridge. Sleet accumulations totaled upwards of 1" as well. This led to

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
numerous accidents, downed trees and power lines which resulted in isolated power outages.				
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<b>(VA-Z036) NELSON, (VA-Z037) ALBEMARLE, (VA-Z040) RAPPAHANNOCK, (VA-Z050) ORANGE, (VA-Z052) PRINCE WILLIAM, (VA-Z053) FAIRFAX, (VA-Z054) ARLINGTON, (VA-Z501) NORTHERN FAUQUIER, (VA-Z502) SOUTHERN FAUQUIER, (VA-Z505) WESTERN LOUDOUN, (VA-Z506) EASTERN LOUDOUN</b>				
	12/14/22 19:00 EST		0	Winter Weather
	12/15/22 16:00 EST		0	
An area of low pressure passed by to the west with another area of low pressure developing near the Chesapeake Bay. This resulted in southeasterly winds to overrun colder air near the surface and a period of freezing rain. Sleet accumulations were less than one inch and ice accumulations totaled a trace to two tenths of an inch. This led to several accidents.				
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<b>(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-Z051) CULPEPER, (VA-Z501) NORTHERN 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</b>				
	12/22/22 02:00 EST		0	Winter Weather
	12/22/22 16:00 EST		0	
A wave of wintry precipitation developed over the region with temperatures at or just below freezing. This resulted in a period of snow, sleet, and freezing rain that eventually turned to rain during the late morning and afternoon. Snow/sleet accumulations totaled one to four inches and ice accumulations totaled a few hundredths to one tenth of an inch. This led to several accidents.				
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<b>CULPEPER COUNTY --- 1.4 WSW MONUMENT MILLS [38.60, -78.03], 1.4 WSW MONUMENT MILLS [38.59, -78.02], 1.6 WSW MONUMENT MILLS [38.59, -78.03], 1.8 WSW MONUMENT MILLS [38.59, -78.03]</b>				
	12/22/22 19:30 EST		0	Flood (due to Heavy Rain)
	12/23/22 09:30 EST		0	Source: Emergency Manager
Hazel River road was closed due to high water/flooding from the Hazel River.				
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<b>FAUQUIER COUNTY --- 0.3 SW BEALETON [38.57, -77.77], 0.4 SSW BEALETON [38.56, -77.77], 0.2 SE BEALETON [38.57, -77.77], 0.1 SSW BEALETON [38.57, -77.77]</b>				
	12/22/22 19:45 EST		0	Flood (due to Heavy Rain)
	12/22/22 22:00 EST		0	Source: Department of Highways
Virginia Department of Transportation reported that Remington Road was closed due to flooding.				
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<b>GREENE COUNTY --- 1.5 WNW STANDARDSVILLE [38.31, -78.45], 2.0 WSW STANDARDSVILLE [38.29, -78.46], 0.9 S STANDARDSVILLE [38.29, -78.43], 0.7 NNE STANDARDSVILLE [38.31, -78.43]</b>				
	12/22/22 20:00 EST		0	Flood (due to Heavy Rain)
	12/23/22 08:00 EST		0	Source: Department of Highways
Numerous roads closed due to flooding in Greene County near Stanardsville.				
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<b>MADISON COUNTY --- 1.2 NW OAKPARK [38.38, -78.18], 1.1 NW OAKPARK [38.38, -78.18], 1.1 NW OAKPARK [38.38, -78.18], 1.2 NW OAKPARK [38.38, -78.18]</b>				
	12/22/22 20:00 EST		0	Flood (due to Heavy Rain)
	12/23/22 08:00 EST		0	Source: Emergency Manager
Water flowing over bridge on Lillards Ford Road making it impassible.				
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<b>MADISON COUNTY --- 1.6 NW MADISON [38.40, -78.29], 0.3 WNW PRATTS [38.35, -78.28], 1.9 ESE MADISON [38.37, -78.24], 2.2 NNE MADISON [38.41, -78.25]</b>				
	12/22/22 20:00 EST		0	Flood (due to Heavy Rain)
	12/23/22 08:00 EST		0	Source: Department of Highways
Numerous roads closed due to flooding in Madison County.				
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<b>ORANGE COUNTY --- 1.6 SW ORANGE [38.23, -78.14], 1.7 SW ORANGE [38.23, -78.14], 1.9 E MONTPELIER [38.23, -78.15], 1.8 ENE MONTPELIER [38.24, -78.15], 1.5 WSW ORANGE [38.24, -78.15]</b>				
	12/22/22 20:00 EST		0	Flood (due to Heavy Rain)
	12/23/22 01:00 EST		0	Source: Department of Highways

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Greenwood Road closed due to flooding.				
<b>ORANGE COUNTY --- 2.5 N VERDTERSVILLE [38.31, -77.88], 2.5 N VERDTERSVILLE [38.31, -77.88], 2.5 N VERDTERSVILLE [38.31, -77.88], 2.5 N VERDTERSVILLE [38.31, -77.88]</b>				
	12/22/22 20:00 EST	0		Flood (due to Heavy Rain)
	12/23/22 01:00 EST	0		Source: Department of Highways
Old Office road closed due to flooding.				
<b>ALBEMARLE COUNTY --- 3.0 SSE FREE UNION [38.13, -78.55], 3.1 SSE FREE UNION [38.13, -78.55], 3.0 SSE FREE UNION [38.13, -78.55], 2.9 SSE FREE UNION [38.13, -78.55]</b>				
	12/22/22 20:30 EST	0		Flood (due to Heavy Rain)
	12/23/22 00:15 EST	0		Source: River/Stream Gage
A USGS stream gauge on Mechums River went into minor flood stage near Garth Road. Flood waters started impacting homes on Free Union Road.				
<b>MADISON COUNTY --- 1.9 E LOCUST DALE [38.33, -78.09], 1.9 ESE LOCUST DALE [38.32, -78.10], 2.0 ESE LOCUST DALE [38.32, -78.09], 2.0 E LOCUST DALE [38.33, -78.09], 2.0 E LOCUST DALE [38.33, -78.09]</b>				
	12/22/22 20:58 EST	0		Flood (due to Heavy Rain)
	12/23/22 07:52 EST	0		Source: River/Stream Gage
A USGS stream gauge on the Robinson River at Locus Dale went into minor flood stage near Locus Dale Road and crested at 15.83 feet. At eleven feet, water covers a portion of Route 721/Robinson River Road and agricultural flooding also occurs nearby.				
<b>PRINCE WILLIAM COUNTY --- 0.1 N HICKORY GROVE [38.90, -77.63], 0.1 SSE HICKORY GROVE [38.90, -77.63], 0.3 ESE HICKORY GROVE [38.90, -77.63], 0.2 ENE HICKORY GROVE [38.90, -77.63]</b>				
	12/22/22 21:43 EST	0		Flood (due to Heavy Rain)
	12/23/22 00:00 EST	0		Source: Emergency Manager
Emergency Management reported that the intersection of Logmill Road at Ingram Drive was closed due to flooding.				
<b>PRINCE WILLIAM COUNTY --- 0.7 NNW ANTIOCH [38.86, -77.69], 0.6 NNW ANTIOCH [38.86, -77.69], 0.7 NNW ANTIOCH [38.86, -77.68], 0.8 NNW ANTIOCH [38.86, -77.69]</b>				
	12/22/22 21:43 EST	0		Flood (due to Heavy Rain)
	12/23/22 00:00 EST	0		Source: Emergency Manager
Emergency Management reported that the intersection of Waterfall Road and Antioch Road was closed due to flooding.				
<b>PRINCE WILLIAM COUNTY --- 1.3 SW WOOLSEY [38.86, -77.65], 1.4 SW WOOLSEY [38.86, -77.65], 1.3 SW WOOLSEY [38.86, -77.65], 1.3 SW WOOLSEY [38.86, -77.65]</b>				
	12/22/22 21:44 EST	0		Flood (due to Heavy Rain)
	12/23/22 00:00 EST	0		Source: Emergency Manager
Emergency Management reported road flooded on the 15000 block of Londons Bridge Road.				
<b>LOUDOUN COUNTY --- 1.3 NNE WATSON [39.02, -77.57], 1.1 NNE WATSON [39.01, -77.57], 1.1 NE WATSON [39.01, -77.57], 1.2 NE WATSON [39.01, -77.57]</b>				
	12/22/22 22:15 EST	0		Flood (due to Heavy Rain)
	12/23/22 02:05 EST	0		Source: Department of Highways
Virginia Department of Transportation reported that parts of Reservoir Road was closed due to flooding.				
<b>LOUDOUN COUNTY --- 1.3 SSW LEESBURG MUNI [39.06, -77.56], 1.5 SSW LEESBURG MUNI [39.06, -77.56], 1.4 S LEESBURG MUNI [39.06, -77.55], 1.2 SSW LEESBURG MUNI [39.06, -77.56]</b>				
	12/22/22 22:15 EST	0		Flood (due to Heavy Rain)
	12/23/22 02:07 EST	0		Source: Department of Highways
Virginia Department of Transportation reported that Shreve Mill Road was closed due to flooding.				
<b>LOUDOUN COUNTY --- 1.0 ESE LEESBURG [39.12, -77.53], 0.8 SE LEESBURG [39.11, -77.54], 2.0 ESE LEESBURG [39.11, -77.52], 1.8 E LEESBURG [39.12, -77.52]</b>				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	12/22/22 22:16 EST		0	Flood (due to Heavy Rain)
	12/23/22 02:15 EST		0	Source: Department of Highways

Virginia Department of Transportation reported that Edwards Ferry Road was closed due to flooding.

**LOUDOUN COUNTY --- 1.6 NNE LOVETTSVILLE [39.29, -77.61], 1.5 NE LOVETTSVILLE [39.29, -77.61], 1.7 NE LOVETTSVILLE [39.29, -77.61], 1.7 NE LOVETTSVILLE [39.29, -77.61]**

12/22/22 22:16 EST	0	Flood (due to Heavy Rain)
12/23/22 02:00 EST	0	Source: Department of Highways

Virginia Department of Transportation reported that Quarter Branch Road was closed due to flooding.

**LOUDOUN COUNTY --- 1.2 NW WATERFORD [39.19, -77.62], 1.1 NW WATERFORD [39.19, -77.61], 1.1 NW WATERFORD [39.19, -77.61], 1.1 NW WATERFORD [39.19, -77.62]**

12/22/22 22:20 EST	0	Flood (due to Heavy Rain)
12/23/22 05:25 EST	0	Source: River/Stream Gage

A USGS stream gauge located along the South Fork Catoclin Creek near Waterford reach minor flood stage with crest of 8.75 feet. At eight feet, lowland fields near the creek begin to flood.

**PRINCE WILLIAM COUNTY --- 0.9 N NOKESVILLE [38.71, -77.58], 0.9 N NOKESVILLE [38.71, -77.58], 0.8 N NOKESVILLE [38.71, -77.58], 0.9 N NOKESVILLE [38.71, -77.58]**

12/22/22 22:23 EST	0	Flood (due to Heavy Rain)
12/23/22 00:24 EST	0	Source: Department of Highways

Virginia Department of Transportation reported that Kettle Run Road was closed due to flooding.

**FAIRFAX COUNTY --- 1.0 WSW TREMONT [38.85, -77.24], 1.0 WSW TREMONT [38.85, -77.24], 1.0 WSW TREMONT [38.85, -77.24], 0.9 WSW TREMONT [38.85, -77.24]**

12/22/22 22:25 EST	0	Flood (due to Heavy Rain)
12/23/22 00:25 EST	0	Source: River/Stream Gage

The stream gauge on Accotink Creek at Woodburn Road reached minor flood stage with a crest of 251.8 feet. At 251.5 feet, Woodburn road is covered by approximately six inches of water at it's lowest point. Portions of the Cross County Trail are also flooded.

**LOUDOUN COUNTY --- 2.5 E NORTH FORK [39.07, -77.68], 2.7 E NORTH FORK [39.07, -77.68], 2.8 E NORTH FORK [39.07, -77.68], 2.6 E NORTH FORK [39.07, -77.68]**

12/22/22 22:50 EST	0	Flood (due to Heavy Rain)
12/22/22 23:50 EST	0	Source: River/Stream Gage

A stream gauge on the North fork of Goose Creek near Lincoln, VA reached minor flood stage with a crest of 10.04 feet. At 10 feet, Goose creek overflows it's banks downstream from Shelburne Glebe Road.

**RAPPAHANNOCK COUNTY --- 0.1 SE LAUREL MILLS [38.65, -78.10], 0.5 S LAUREL MILLS [38.64, -78.10], 1.5 NW VIEWTOWN [38.64, -78.07], 1.6 ENE LAUREL MILLS [38.66, -78.07]**

12/22/22 23:00 EST	0	Flood (due to Heavy Rain)
12/23/22 10:15 EST	0	Source: Emergency Manager

Road closed along Richmond Road at Laurel Mills Road due to high water/flooding.

**RAPPAHANNOCK COUNTY --- 0.6 NNW ROCK MILLS [38.66, -78.14], 0.8 WNW ROCK MILLS [38.65, -78.14], 0.3 E ROCK MILLS [38.65, -78.12], 0.5 NE ROCK MILLS [38.65, -78.12]**

12/22/22 23:00 EST	0	Flood (due to Heavy Rain)
12/23/22 10:15 EST	0	Source: Emergency Manager

Road closed along Rock Mills Road at Whorton Hollow Road due to high water/flooding.

**CULPEPER COUNTY --- 0.9 N RIXEYVILLE [38.59, -77.97], 0.9 NNE RIXEYVILLE [38.59, -77.97], 1.0 NNE RIXEYVILLE [38.59, -77.96], 1.1 NNE RIXEYVILLE [38.60, -77.96]**

12/22/22 23:10 EST	0	Flood (due to Heavy Rain)
12/23/22 07:30 EST	0	Source: River/Stream Gage

## Storm Data and Unusual Weather Phenomena - December 2022

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>A USGS stream gauge on the Hazel River at Rixeyville went into minor flood stage near Rixeyville Road and reached 18.6 feet. At 16 feet, low lying agricultural land near the river begins to flood and water covers the low water bridge on Butler Store Road. Water also covered the bridge on Rixeyville Road.</p>				
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<b>CULPEPER COUNTY --- 1.0 NE ELKWOOD [38.53, -77.84], 1.9 NE ELKWOOD [38.54, -77.83], 2.2 ENE ELKWOOD [38.53, -77.81], 2.5 E ELKWOOD [38.52, -77.80]</b>	12/22/22 23:10 EST	0		Flood (due to Heavy Rain)
	12/23/22 07:30 EST	0		Source: River/Stream Gage
<p>A USGS stream gauge on the Rappahannock River at Remington went into minor flood and reached 16.91 feet. At 15 feet, water reaches the top of the boat ramp at Kellys Ford, covers portions of Tin Pot Run Road and Sumerduck Road near Remington, impacts farmland south of Remington, the left bank of the river begins to overflow near Remington.</p>				
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<b>FAUQUIER COUNTY --- 1.0 NE ELKWOOD [38.53, -77.84], 1.9 WNW REMINGTON [38.54, -77.83], 0.2 ENE REMINGTON [38.53, -77.80], 0.9 SW REMINGTON [38.52, -77.81]</b>	12/22/22 23:10 EST	0		Flood (due to Heavy Rain)
	12/23/22 07:30 EST	0		Source: River/Stream Gage
<p>A USGS stream gauge on the Rappahannock River at Remington went into minor flood and reached 16.91 feet. At 15 feet, water reaches the top of the boat ramp at Kellys Ford, covers portions of Tin Pot Run Road and Sumerduck Road near Remington, impacts farmland south of Remington, the left bank of the river begins to overflow near Remington.</p>				
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<b>PRINCE WILLIAM COUNTY --- 1.8 S CATHARPIN [38.83, -77.58], 1.9 S CATHARPIN [38.82, -77.57], 1.8 S CATHARPIN [38.82, -77.57], 1.7 S CATHARPIN [38.83, -77.57]</b>	12/23/22 02:21 EST	0		Flood (due to Heavy Rain)
	12/23/22 04:29 EST	0		Source: Emergency Manager
<p>Emergency Management reported Pageland Lane closed near Artemus Road due to flooding. Water flowing two feet over bridge.</p>				
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<b>PRINCE WILLIAM COUNTY --- 0.5 NNW BRISTOW [38.73, -77.53], 0.5 N BRISTOW [38.73, -77.53], 0.5 N BRISTOW [38.73, -77.53], 0.4 N BRISTOW [38.73, -77.53]</b>	12/23/22 02:25 EST	0		Flood (due to Heavy Rain)
	12/23/22 04:35 EST	0		Source: Emergency Manager
<p>Emergency Management reports Piper Lane is closed at the railroad tracks due to flooding.</p>				
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<b>LOUDOUN COUNTY --- 0.3 W OATLANDS [39.03, -77.63], 0.6 SSW OATLANDS [39.02, -77.62], 0.5 SE OATLANDS [39.03, -77.61], 0.2 NNE OATLANDS [39.03, -77.62]</b>	12/23/22 05:45 EST	0		Flood (due to Heavy Rain)
	12/23/22 11:00 EST	0		Source: River/Stream Gage
<p>The USGS stream gauge located on Goose Creek reach minor flood stage with a crest of 12.29 feet. At 12 feet, Goose Creek overflows it's banks near Oatlands and south of Leesburg. Backwater flooding begins to affect a low spot on State Route 650, Oatlands Road.</p>				
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<b>FREDERICKSBURG (C) COUNTY --- 1.6 N FREDERICKSBURG [38.32, -77.47], 1.3 N FREDERICKSBURG [38.32, -77.47], 0.9 NNE FREDERICKSBURG [38.31, -77.47], 1.3 NNE FREDERICKSBURG [38.32, -77.46]</b>	12/23/22 07:10 EST	0		Flood (due to Heavy Rain)
	12/24/22 01:50 EST	0		Source: River/Stream Gage
<p>The State of Virginia stream gauge located on the Rappahannock River at Fredericksburg reached minor flood stage with a crest of 14.9 feet. At 13 feet, water enters home's basements near the Fredericksburg City Dock. Old Mill Park begins to flood and will be closed. Water enters a guest house located off of Caroline Street. At 14 feet, flood waters begin to reach River Road on the east side of the river. Old Mill Park Maintenance Facility is flooded.</p>				
<p><b>A coastal low pressure system interacted with a warm front resulting in a widespread two to three inches of rain with localized amounts up to four inches. This resulted in numerous road closures due to high water and small streams overflowing their banks. Several river forecast points also reached minor flood stage.</b></p>				
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<b>(VA-Z503) WESTERN HIGHLAND, (VA-Z504) EASTERN HIGHLAND, (VA-Z507) NORTHERN VIRGINIA BLUE RIDGE, (VA-Z508) CENTRAL VIRGINIA BLUE RIDGE</b>	12/23/22 06:00 EST	0		Extreme Cold/Wind Chill
	12/25/22 12:00 EST	0		

A cold northwest wind behind an arctic cold front caused wind chills to drop to around -25 to -40 degrees the day of the 23rd through the early afternoon of the 24th. Wind chills remained -25 to -35 degrees across Western Highland County into the morning of the 25th.

## Storm Data and Unusual Weather Phenomena - December 2022

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>(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-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>				
	12/23/22 10:00 EST		0	Cold/Wind Chill
	12/24/22 10:00 EST		0	

A cold northwest wind behind an arctic cold front caused wind chills to drop to around -5 near the Tidal Potomac to -20 degrees in the Potomac Highlands the day of the 23rd through the late morning/early afternoon of the 24th.

<b>(VA-Z504) EASTERN HIGHLAND, (VA-Z507) NORTHERN VIRGINIA BLUE RIDGE, (VA-Z508) CENTRAL VIRGINIA BLUE RIDGE</b>				
	12/24/22 10:00 EST		0	Cold/Wind Chill
	12/25/22 10:00 EST		0	

A cold northwest wind behind an arctic cold front caused wind chills to continue to range between -10 and -20 degrees during the afternoon of the 24th into the morning of the 25th.

### WEST VIRGINIA, East

<b>(WV-Z050) HAMPSHIRE, (WV-Z503) WESTERN MINERAL, (WV-Z504) EASTERN MINERAL</b>				
	12/06/22 01:45 EST		0	Winter Weather
	12/06/22 07:00 EST		0	

A weak low passed by to the west, causing southerly winds to overrun colder air near the surface. This resulted in freezing rain across the higher elevations in the Allegheny and Potomac Highlands where temperatures were just below freezing. Ice accumulation totaled up to around a trace to a few hundredths of an inch, but this led to icy roads that caused several accidents.

<b>(WV-Z501) WESTERN GRANT, (WV-Z503) WESTERN MINERAL</b>				
	12/09/22 22:00 EST		0	Winter Weather
	12/10/22 10:00 EST		0	

A weak low passed by to the west, causing southerly winds to overrun colder air near the surface. This resulted in freezing rain across the higher elevations in the Allegheny Highlands where temperatures were just below freezing. Ice accumulation totaled a trace to a few hundredths of an inch.

<b>(WV-Z501) WESTERN GRANT, (WV-Z503) WESTERN MINERAL</b>				
	12/10/22 21:35 EST		0	Winter Weather
	12/11/22 10:00 EST		0	

A weak low passed by to the north, causing a warm front to overrun colder air near the surface. This resulted in freezing rain across the higher elevations in the Allegheny Highlands where temperatures were just below freezing. Ice accumulation totaled a trace to a few hundredths of an inch.

<b>(WV-Z050) HAMPSHIRE, (WV-Z051) MORGAN, (WV-Z052) BERKELEY, (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>				
	12/14/22 19:00 EST		0	Ice Storm
	12/15/22 22:00 EST		0	

An area of low pressure passed by to the west with another area of low pressure developing near the Chesapeake Bay. This resulted in southeasterly winds to overrun colder air near the surface and a prolonged wintry mix/freezing rain event across the Allegheny and Potomac Highlands where temperatures were just below freezing. Ice accumulations totaled one quarter to three quarters of an inch. Sleet accumulations totaled upwards of 2" as well. This led to numerous accidents, downed trees and power lines which resulted in isolated power outages.

<b>(WV-Z053) JEFFERSON</b>				
	12/14/22 22:00 EST		0	Winter Weather
	12/15/22 16:00 EST		0	

An area of low pressure passed by to the west with another area of low pressure developing near the Chesapeake Bay. This resulted in



## Storm Data and Unusual Weather Phenomena - December 2022

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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southeasterly winds to overrun colder air near the surface and a period of freezing rain. Sleet accumulations were less than one inch and ice accumulations totaled a trace to two tenths of an inch. This led to several accidents.

(WV-Z050) HAMPSHIRE, (WV-Z051) MORGAN, (WV-Z052) BERKELEY, (WV-Z053) JEFFERSON, (WV-Z502) EASTERN GRANT, (WV-Z504) EASTERN MINERAL, (WV-Z505) WESTERN PENDLETON, (WV-Z506) EASTERN PENDLETON

12/21/22 02:00 EST			0	Winter Weather
12/22/22 18:00 EST			0	

A wave of wintry precipitation developed over the region with temperatures at or just below freezing. This resulted in a period of snow, sleet, and freezing rain that eventually turned to rain during the late morning and afternoon. Snow/sleet accumulations totaled one to four inches and ice accumulations totaled a few hundredths to one tenth of an inch. This led to several accidents.

(WV-Z055) HARDY, (WV-Z501) WESTERN GRANT, (WV-Z503) WESTERN MINERAL

12/22/22 04:00 EST			0	Winter Storm
12/22/22 18:00 EST			0	

A wave of wintry precipitation developed over the region with temperatures at or just below freezing. This resulted in a period of snow, sleet, and freezing rain that eventually turned to freezing drizzle during the afternoon and evening. Snow/sleet accumulations totaled four to seven inches and ice accumulations totaled a tenth to one quarter of an inch. This led to several accidents.

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

12/23/22 06:00 EST			0	Winter Weather
12/23/22 18:00 EST			0	

A potent arctic front moved through the area bringing one to three inches of snow and wind gusts up to 60 mph during the morning hours of December 23rd. Blowing and drifting of snow resulted in visibilities below one-half mile at times.

(WV-Z501) WESTERN GRANT, (WV-Z503) WESTERN MINERAL, (WV-Z505) WESTERN PENDLETON, (WV-Z506) EASTERN PENDLETON

12/23/22 06:00 EST			0	Extreme Cold/Wind Chill
12/25/22 12:00 EST			0	

A cold northwest wind behind an arctic cold front caused wind chills to drop to around -25 to -40 degrees the day of the 23rd through the morning of the 25th.

(WV-Z502) EASTERN GRANT

12/23/22 06:00 EST			0	High Wind (MAX 50 kt)
12/23/22 22:00 EST			0	

Strong gradient winds developed behind a strong Arctic cold front that moved through the area on December 23.

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

12/23/22 10:00 EST			0	Cold/Wind Chill
12/24/22 10:00 EST			0	

A cold northwest wind behind an arctic cold front caused wind chills to drop to around -10 to -20 degrees the day of the 23rd through the late morning/early afternoon of the 24th.

BERKELEY COUNTY --- 2.3 WSW VANCELEVESVILLE [39.42, -77.94], 2.0 WSW VANCELEVESVILLE [39.42, -77.93], 0.8 NNE BLAIRTON [39.46, -77.91], 1.2 NNW BLAIRTON [39.47, -77.93], 1.2 WSW BLAIRTON [39.44, -77.94]

12/23/22 12:45 EST			0	Flood (due to Heavy Rain)
12/23/22 15:31 EST			0	Source: River/Stream Gage

A USGS stream gauge located along the Opequan Creek near Martinsburg reached minor flood stage with crest of 10.04 feet. At ten feet, floodwaters begin to cover Douglas Grove Road (County Road 9/16) east of Martinsburg. A portion of Bowers Road is also flooded. Low lying areas near the creek begin to flood. Water also begins to cover the stream access point at the Van Metre Ford Pedestrian Bridge.

A coastal low pressure system interacted with a warm front resulting in a widespread two to three inches of rain with localized amounts up to four inches. This resulted in road closures due to high water and small streams overflowing their banks. River flooding also occurred.

(WV-Z503) WESTERN MINERAL, (WV-Z506) EASTERN PENDLETON

## Storm Data and Unusual Weather Phenomena - December 2022

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	12/24/22 10:00 EST		0	Cold/Wind Chill
	12/25/22 12:00 EST		0	

A cold northwest wind behind an arctic cold front caused wind chills to continue to range between -10 and -20 degrees during the afternoon of the 24th into the morning of the 25th.