

## Storm Data and Unusual Weather Phenomena - December 2024

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>ATLANTIC NORTH</b>				
<b>CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- SENECA CREEK [39.30, -76.36]</b>				
	12/05/24 05:19 EST		0	Marine Thunderstorm Wind (MG 42 kt)
	12/05/24 05:19 EST		0	Source: Mesonet
A wind gust of 42 knots (48 MPH) was measured by the Seneca Creek WeatherFlow sensor (XSNC).				
<b>A powerful cold front produced a squall that resulted in a brief surge of gale-force winds over the upper Chesapeake Bay during the pre-dawn hours.</b>				
<b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- OCCOQUAN RIVER (OCC) [38.64, -77.22]</b>				
	12/31/24 17:28 EST		0	Marine Thunderstorm Wind (MG 41 kt)
	12/31/24 17:33 EST		0	Source: Mesonet
Wind gusts of up to 41 knots (47 MPH) were measured by the Occoquan River WeatherFlow sensor (XOCC).				
<b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- POTOMAC LIGHT 33 (LT3) [38.34, -76.99]</b>				
	12/31/24 17:40 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	12/31/24 17:40 EST		0	Source: Mesonet
A wind gust of 35 knots (40 MPH) was measured by the Potomac Light 33 WeatherFlow sensor (XP33).				
<b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- PYLONS DAHLGREN (PYL) [38.31, -77.00]</b>				
	12/31/24 17:41 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	12/31/24 17:41 EST		0	Source: Mesonet
A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near the Pylons Dahlgren WeatherFlow sensor (XPYL).				
<b>TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- (DCA)REAGAN NATIONAL AIRPORT [38.86, -77.03]</b>				
	12/31/24 17:48 EST		0	Marine Thunderstorm Wind (MG 38 kt)
	12/31/24 17:48 EST		0	Source: ASOS
A wind gust of 38 knots (44 MPH) was measured by the ASOS at Ronald Reagan Washington National Airport (KDCA) adjacent to the tidal Potomac River.				
<b>TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- WASHINGTON DC (WASD2) [38.87, -77.02]</b>				
	12/31/24 17:54 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	12/31/24 17:54 EST		0	Source: Mesonet
A wind gust of 36 knots (41 MPH) was measured by the Washington Channel/Hains Point Park NOS sensor (WASD2).				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- SAUNDERS POINT LIGHT [38.88, -76.48]</b>				
	12/31/24 18:30 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	12/31/24 18:35 EST		0	Source: Mesonet
Wind gusts of up to 34 knots (39 MPH) were measured by the Saunders Point Light WeatherFlow sensor (XMTR).				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- GREENBURY POINT (GBY) [38.97, -76.46]</b>				
	12/31/24 18:33 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	12/31/24 18:43 EST		0	Source: Mesonet
Wind gusts of up to 36 knots (41 MPH) were measured by the Greenbury Point WeatherFlow sensor (XGRN).				
<b>CHOPTANK RIVER TO CAMBRIDGE MD AND THE LITTLE CHOPTANK RIVER COUNTY --- BLACKWALNUT HARBOR (BWH) [38.68, -76.33]</b>				
	12/31/24 18:33 EST		0	Marine Thunderstorm Wind (MG 37 kt)
	12/31/24 18:33 EST		0	Source: Mesonet
A wind gust of 37 knots (43 MPH) was measured by the Blackwalnut Harbor WeatherFlow sensor (XBWH).				
<b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- THOMAS POINT (TPLM2) [38.90, -76.44]</b>				

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	12/31/24 18:35 EST		0	Marine Thunderstorm Wind (MG 39 kt)
	12/31/24 18:35 EST		0	Source: C-MAN Station

A wind gust of 39 knots (45 MPH) was measured by the Thomas Point NOS sensor (TPLM2).

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### TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- PINEY POINT (PPTM2) [38.13, -76.53]

	12/31/24 18:36 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	12/31/24 18:36 EST		0	Source: Mesonet

A wind gust of 36 knots (41 MPH) was measured by the Piney Point NOS sensor (PPTM2).

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### CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- PATUXENT RIVER ASOS (KNHK) [38.29, -76.41]

	12/31/24 18:39 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	12/31/24 18:39 EST		0	Source: ASOS

A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near the ASOS at Patuxent River Naval Air Station (KNHK) adjacent to the Chesapeake Bay and the tidal Patuxent River.

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### CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- SANDY POINT (SPT) [39.01, -76.40]

	12/31/24 18:42 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	12/31/24 18:42 EST		0	Source: Mesonet

A wind gust of 36 knots (42 MPH) was measured by the Sandy Point WeatherFlow sensor (XSPT).

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### PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- BALTIMORE KEY BRIDGE (FSKM2) [39.22, -76.53]

	12/31/24 18:42 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	12/31/24 18:42 EST		0	Source: Mesonet

A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near the I-695 Francis Scott Key Bridge NOS sensor (FSKM2).

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### CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- TOLCHESTER MD (TCBM2) [39.21, -76.24]

	12/31/24 19:00 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	12/31/24 19:00 EST		0	Source: Mesonet

A wind gust of 36 knots (41 MPH) was measured by the Tolchester Beach NOS sensor (TCBM2).

**A cold front intersected an unseasonably warm and humid airmass across the Mid-Atlantic, resulting in bands of thunderstorms that produced localized gusty to damaging winds and some hail.**

## DISTRICT OF COLUMBIA

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### (DC-Z001) DISTRICT OF COLUMBIA

	12/24/24 05:00 EST		0	Winter Weather
	12/24/24 12:13 EST		0	

A weak area of low pressure brought a light wintry mix to the District of Columbia. Snow and sleet accumulations of a coating were observed along with freezing rain accumulations of a trace to a few hundredths.

## MARYLAND, Central

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### (MD-Z001) GARRETT

	12/04/24 21:00 EST		0	Blizzard
	12/05/24 13:56 EST		0	

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

	12/05/24 00:00 EST		0	Winter Weather
	12/06/24 05:49 EST		0	

## Storm Data and Unusual Weather Phenomena - December 2024

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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An Arctic Front passed through during the night of December 4th into December 5th. A wave of low pressure along the Arctic Front brought an initial mix of sleet and freezing rain. As the front passed through, heavy snow developed and the winds increased. Winds gusted to 60 mph resulting in considerable blowing and drifting snow. This led to blizzard conditions across Garrett County. Snowfall accumulations ranged from around three inches in western Allegany County to around six inches in much of Garrett County with the higher ridges approaching eight inches. This potent front dropped temperatures into the teens for the next couple of days. Wind chill values fell to 0 to -10F.

**PRINCE GEORGE'S COUNTY --- 1.7 ESE COLLINGTON [38.96, -76.74]**

12/11/24 14:38 EST	10K	Thunderstorm Wind (EG 52 kt)
12/11/24 14:38 EST	0	Source: Emergency Manager

Several trees blew down around Benjamin Tasker Middle School, on Kayhill Lane near Kembridge Drive, and near the intersection of US-50 John Hanson Highway and MD-193 Enterprise Road.

A strong cold front produced a strongly-forced line of thunderstorms. This line of thunderstorms produced mainly sub-severe wind gusts, with one exception near the Bowie area for a brief time in the mid afternoon.

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

12/15/24 07:00 EST	0	Winter Storm
12/16/24 04:29 EST	0	

**(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z502) CENTRAL AND EASTERN ALLEGANY**

12/15/24 07:00 EST	0	Winter Weather
12/16/24 04:29 EST	0	

An area of low pressure approached from the Ohio Valley while an anomalous area of high pressure (~1050 mb) resided over New England. This resulted in cold air being trapped across western and central Maryland. A wintry mix of snow, sleet, and freezing rain moved in after daybreak on December 15th. This continued through the day before gradually transitioning to rain as temperatures warmed overnight. Snow and sleet accumulations averaged a half an inch to three inches. Locally four inches were observed in the Catoctin Mountains. Ice accumulations averaged a trace to a tenth for most area, with upwards of three tenths of an inch across eastern Garrett County and western Allegany County.

**(MD-Z001) GARRETT**

12/18/24 20:00 EST	0	Winter Weather
12/19/24 07:00 EST	0	

A weak wave of low pressure brought a light wintry mix to western Maryland. Ice accumulations of a trace to a localized tenth along with a coating to an inch of snow were observed.

**(MD-Z001) GARRETT**

12/21/24 07:00 EST	0	Winter Weather
12/21/24 22:00 EST	0	

Bands of Lake Effect Snow off of Lake Erie and Lake Huron brought periods of heavy snow to Garrett County. Snowfall reports of 2 to 6 inches were observed. The higher accumulations were confined to the northern half of the county with the 6 inch amounts along the I-68 corridor.

**(MD-Z001) GARRETT, (MD-Z006) NORTHERN BALTIMORE, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z013) PRINCE GEORGES, (MD-Z014) ANNE ARUNDEL, (MD-Z501) EXTREME WESTERN 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**

12/24/24 04:00 EST	0	Winter Weather
12/24/24 19:00 EST	0	

A weak area of low pressure brought a light wintry mix to Maryland. Snow and sleet accumulations totaled a coating to an inch in western Maryland and the northern Baltimore suburbs. Freezing rain accumulations of a trace to a few hundredths were observed from the Baltimore metro southward towards the DC metro.

**CALVERT COUNTY --- 0.6 E HUNTINGTOWN [38.62, -76.61]**

12/31/24 18:08 EST	2K	Thunderstorm Wind (EG 52 kt)
12/31/24 18:08 EST	0	Source: NWS Employee

Thunderstorm winds uprooted a 60-plus foot pine tree.

## Storm Data and Unusual Weather Phenomena - December 2024

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A cold front intersected an unseasonably warm and humid airmass across the Mid-Atlantic, resulting in bands of thunderstorms that produced localized gusty to damaging winds and some hail.

### VIRGINIA, North

#### (VA-Z503) WESTERN HIGHLAND

12/05/24 00:00 EST	0	Winter Weather
12/05/24 13:56 EST	0	

An Arctic Front passed through during the night of December 4th into December 5th. A wave of low pressure along the Arctic Front brought an initial mix of sleet and freezing rain. As the front passed through, heavy snow developed and the winds increased. Winds gusted to 50 mph resulting in blowing and drifting snow. Snowfall accumulations averaged three to six inches in western Highland County. This potent front dropped temperatures into the single digits and teens for much of December 5th and 6th. Wind chill values fell to 0 to -10F.

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

12/15/24 07:00 EST	0	Winter Weather
12/16/24 04:29 EST	0	

An area of low pressure approached from the Ohio Valley while an anomalous area of high pressure (~1050 mb) resided over New England. This resulted in cold air being trapped near and west of the Blue Ridge Mountains. A wintry mix of snow, sleet, and freezing rain moved in after daybreak on December 15th. This continued through the day before gradually transitioning to rain as temperatures warmed. Snow and sleet accumulations averaged a half an inch to two inches. Ice accumulations averaged a trace to a tenth on the higher ridges.

#### (VA-Z029) PAGE, (VA-Z038) GREENE, (VA-Z039) MADISON, (VA-Z040) RAPPAHANNOCK, (VA-Z050) ORANGE, (VA-Z051) CULPEPER, (VA-Z053) FAIRFAX, (VA-Z054) ARLINGTON, (VA-Z055) STAFFORD, (VA-Z501) NORTHERN FAUQUIER, (VA-Z502) SOUTHERN FAUQUIER, (VA-Z503) WESTERN HIGHLAND, (VA-Z505) WESTERN LOUDOUN, (VA-Z506) EASTERN LOUDOUN, (VA-Z526) NORTHWEST PRINCE WILLIAM, (VA-Z527) CST AND SOUTHEAST PRINCE WILLIAM/MANASSAS/MANASSAS PARK

12/24/24 05:00 EST	0	Winter Weather
12/24/24 13:00 EST	0	

A weak area of low pressure brought a light wintry mix to Virginia. Snowfall accumulations totaled a coating to a half inch. Freezing rain accumulations of a trace to a few hundredths were observed as well.

#### NELSON COUNTY --- 0.7 N ELMA [37.76, -78.80]

12/31/24 15:15 EST	0	Hail (1.00 in)
12/31/24 15:15 EST	0	Source: Trained Spotter

Quarter size hail was reported off Dutch Creek Lane.

#### ALBEMARLE COUNTY --- 0.6 S COVESVILLE [37.87, -78.72]

12/31/24 15:21 EST	3K	Thunderstorm Wind (EG 52 kt)
12/31/24 15:21 EST	0	Source: 911 Call Center

Multiple trees blew down along VA-632 Faber Road.

#### ALBEMARLE COUNTY --- 1.1 W COBHAM [38.07, -78.30]

12/31/24 15:43 EST	3K	Thunderstorm Wind (EG 52 kt)
12/31/24 15:43 EST	0	Source: 911 Call Center

Trees blew down along VA-231 Gordonsville Road.

#### NELSON COUNTY --- 1.1 E ARRINGTON [37.68, -78.90]

12/31/24 16:04 EST	0	Hail (1.00 in)
12/31/24 16:04 EST	0	Source: 911 Call Center

Quarter size hail was reported off VA-655 Variety Mills Road.

## Storm Data and Unusual Weather Phenomena - December 2024

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>ORANGE COUNTY --- 0.1 ENE THORNHILL [38.15, -77.98]</b>				
	12/31/24 16:15 EST		2K	Thunderstorm Wind (EG 52 kt)
	12/31/24 16:15 EST		0	Source: Trained Spotter
Trees blew down in the 23000 block of VA-651 Thornhill Road.				
<b>ORANGE COUNTY --- 1.6 NNW THORNHILL [38.17, -77.99]</b>				
	12/31/24 16:23 EST		10K	Thunderstorm Wind (EG 52 kt)
	12/31/24 16:23 EST	1	0	Source: Emergency Manager
A large tree blew down onto an occupied vehicle in the 17000 block of VA-669 Marquis Road.				
<b>ORANGE COUNTY --- 0.6 NW VERDTERSVILLE [38.28, -77.89]</b>				
	12/31/24 16:28 EST		6K	Thunderstorm Wind (EG 56 kt)
	12/31/24 16:28 EST		0	Source: Emergency Manager
Numerous trees blew down near the intersection of VA-20 Constitution Highway and VA-742 Strawberry Hill Road.				
<b>ORANGE COUNTY --- 1.8 SSE INDIANTOWN [38.35, -77.79]</b>				
	12/31/24 16:37 EST		6K	Thunderstorm Wind (EG 56 kt)
	12/31/24 16:37 EST		0	Source: Emergency Manager
Numerous trees blew down near the intersection of Rapidan Hills Drive and Mountain View Court.				
<b>STAFFORD COUNTY --- 0.8 ESE MOUNTAIN VIEW [38.47, -77.46]</b>				
	12/31/24 17:08 EST		0	Hail (1.00 in)
	12/31/24 17:08 EST		0	Source: Trained Spotter
Quarter size hail was reported at Northern Stafford High School.				
<b>STAFFORD COUNTY --- 0.9 NW GARRISONVILLE [38.48, -77.43]</b>				
	12/31/24 17:08 EST		0	Hail (1.00 in)
	12/31/24 17:08 EST		0	Source: Trained Spotter
Quarter size hail was reported off VA-642 Barrett Heights Road.				
<b>ALEXANDRIA (C) COUNTY --- 2.2 W ALEXANDRIA [38.82, -77.12]</b>				
	12/31/24 17:46 EST		2K	Thunderstorm Wind (EG 52 kt)
	12/31/24 17:46 EST		0	Source: Public
Trees blew down along Richenbacher Avenue.				
<b>A cold front intersected an unseasonably warm and humid airmass across the Mid-Atlantic, resulting in bands of thunderstorms that produced localized gusty to damaging winds and some hail.</b>				
<b>WEST VIRGINIA, East</b>				
<b>(WV-Z501) WESTERN GRANT, (WV-Z505) WESTERN PENDLETON</b>				
	12/04/24 21:00 EST		0	Blizzard
	12/05/24 13:56 EST		0	
<b>(WV-Z501) WESTERN GRANT, (WV-Z503) WESTERN MINERAL</b>				
	12/05/24 00:00 EST		0	Winter Weather
	12/06/24 05:49 EST		0	
<b>(WV-Z501) WESTERN GRANT, (WV-Z505) WESTERN PENDLETON</b>				
	12/05/24 07:00 EST		0	Cold/Wind Chill
	12/05/24 10:00 EST		0	

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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An Arctic Front passed through during the night of December 4th into December 5th. A wave of low pressure along the Arctic Front brought an initial mix of sleet and freezing rain. As the front passed through, heavy snow developed and the winds increased. Winds gusted to 60 mph resulting in considerable blowing and drifting snow. This led to blizzard conditions. Snowfall accumulations averaged three to eight inches in western Grant County and western Pendleton County. This potent front dropped temperatures into the single digits and teens for much of December 5th and 6th. Wind chill values of -10 to -20F were observed across the higher terrain.

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

12/05/24 07:00 EST	0	Cold/Wind Chill
12/06/24 10:00 EST	0	

An area of Canadian high pressure moved into the area bringing the coldest temperatures of the season thus far (single digits across the West Virginia high ground). The remnant gradient resulted in wind gusts of 30-40 mph which brought wind chills into the -5 to -20F range.

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

12/15/24 07:00 EST	0	Winter Weather
12/16/24 04:29 EST	0	

(WV-Z501) WESTERN GRANT, (WV-Z504) EASTERN MINERAL, (WV-Z505) WESTERN PENDLETON

12/15/24 07:00 EST	0	Winter Storm
12/16/24 00:54 EST	0	

An area of low pressure approached from the Ohio Valley while an anomalous area of high pressure (~1050 mb) resided over New England. This resulted in cold air being trapped across the eastern West Virginia Panhandle. A wintry mix of snow, sleet, and freezing rain moved in after daybreak on December 15th. This continued through the day before gradually transitioning to rain as temperatures warmed. Snow and sleet accumulations averaged a half an inch to three inches. Ice accumulations averaged a trace to a tenth for most area, with upwards of three tenths of an inch across western Grant and western Mineral Counties.

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

12/18/24 20:00 EST	0	Winter Weather
12/19/24 07:00 EST	0	

A weak wave of low pressure brought a light wintry mix to portions of the West Virginia mountains. Ice accumulations of a trace to a localized tenth along with a coating to an inch of snow were observed.

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

12/24/24 04:00 EST	0	Winter Weather
12/24/24 19:00 EST	0	

A weak area of low pressure brought a light wintry mix to parts of the eastern Panhandle of West Virginia. Snowfall accumulations totaled a coating to an inch. Freezing rain accumulations of a trace to a few hundredths were observed.