



Winter Weather Updates and Winter Outlook

NWS Albany

New York Winter Weather And Winter Outlook 2024-2025

Presented by:

**Steve DiRienzo
Warning Coordination Meteorologist
NWS Albany**



**National Oceanic and
Atmospheric Administration**
U.S. Department of Commerce

**National Weather Service
Albany, NY**



Overview

- Changes to Cold/Wind Chill Criteria
- Impacts of Snow and Ice
- Winter Storm Warning/Winter Weather Advisory Criteria
- Wind Watch, Warning and Advisory Criteria
- NOAA/NWS Winter Outlook (2024 - 2025)
- La Niña Winter Tendencies
- Last Winter
- NWS Winter Weather Links





Latest Drought Monitor








New York

[Home](#) / [New York](#)

Map released: Thurs. December 12, 2024

Data valid: December 10, 2024 at 7 a.m. EST

Intensity

-  None
-  D0 (Abnormally Dry)
-  D1 (Moderate Drought)
-  D2 (Severe Drought)
-  D3 (Extreme Drought)
-  D4 (Exceptional Drought)
-  No Data

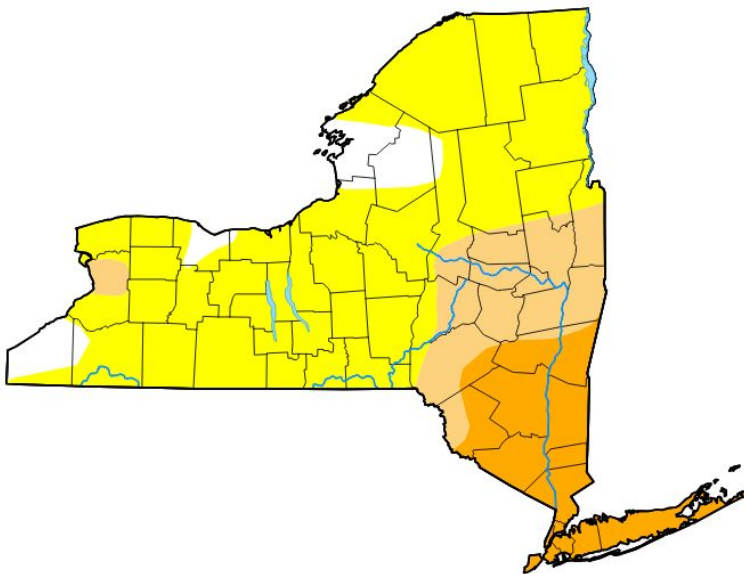
Authors

United States and Puerto Rico Author(s):

[Curtis Riganti](#), National Drought Mitigation Center

Pacific Islands and Virgin Islands Author(s):

[Lindsay Johnson](#), National Drought Mitigation Center



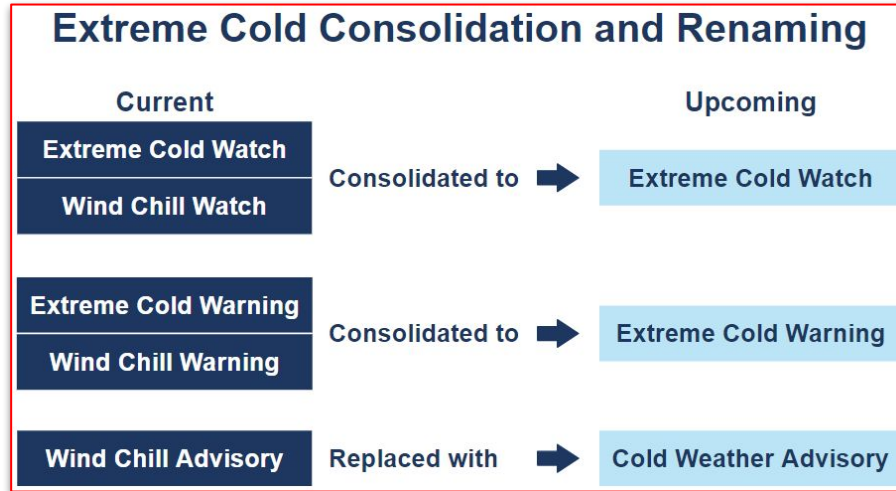
National Oceanic and
Atmospheric Administration
U.S. Department of Commerce

National Weather Service
Albany, NY



Updates - Cold Weather Products

On October 1, 2024, the NWS simplified its suite of cold weather products to improve messaging of these hazards and provide better decision support services



The record low for New York State is **-52 °F**, set at Stillwater Reservoir on February 9, 1934 and at Old Forge on February 18, 1979. Watertown record low is -43F set on Jan 16, 1994. Massena record low is -44F set on Jan 15, 1957.

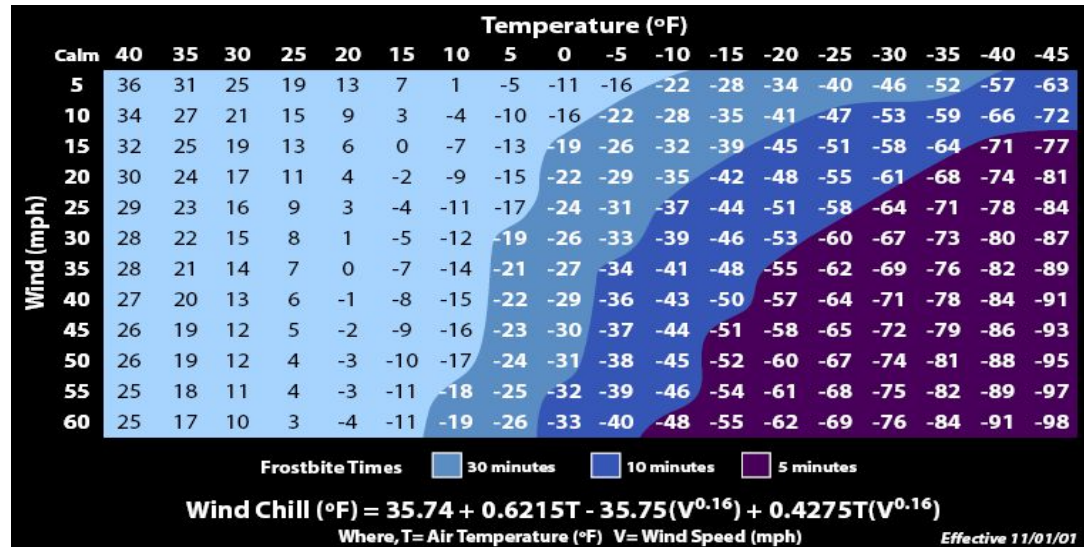




Cold is Cold - With or Without Wind

Extreme Cold Watch/Warning and Cold Weather Advisory will be based off of the APPARENT TEMPERATURE* – whether that represents the air temperature or the wind chill, cold is cold.

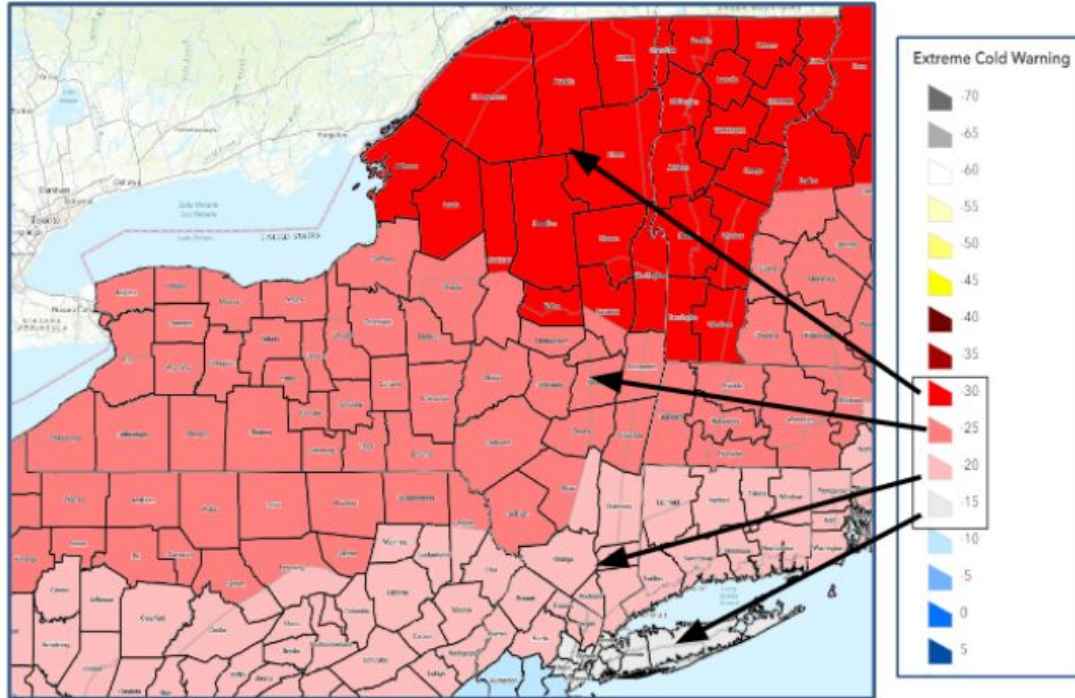
*Apparent Temperature can be the air temperature when the wind is calm or the wind chill temperature when wind is present.





Extreme Cold Watch/Warning Criteria

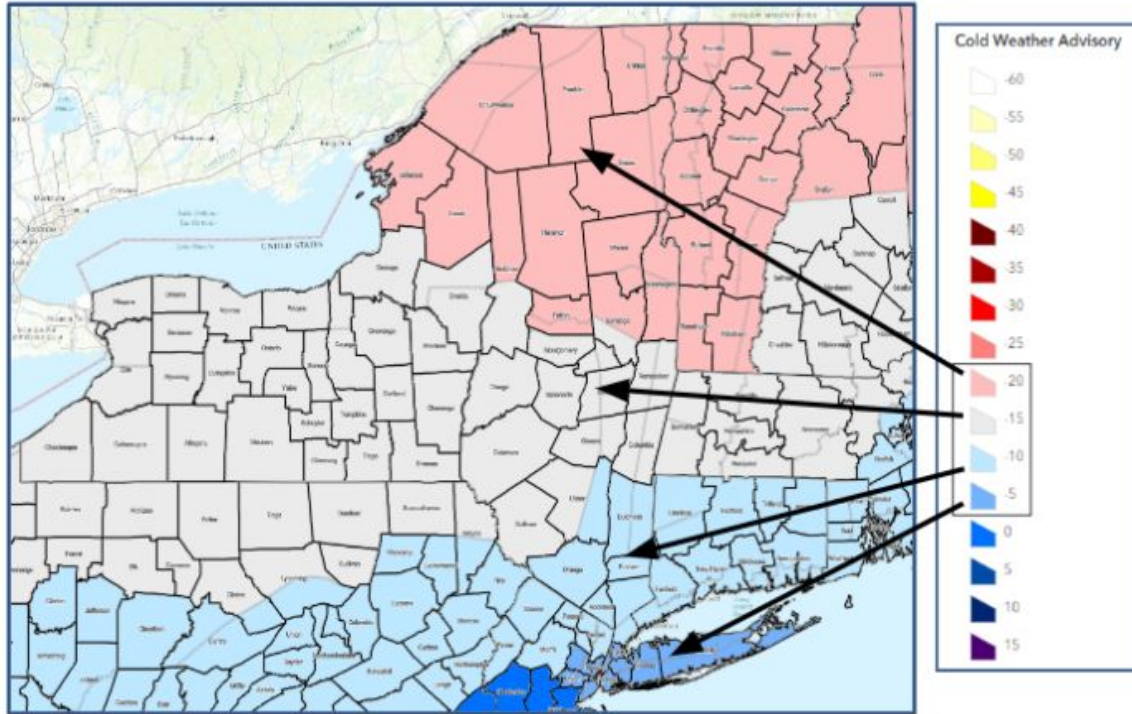
EXTREME COLD WARNING: Issued when **life-threatening** cold temperatures and/or wind chill readings are **expected**





Cold Weather Advisory Criteria

COLD WEATHER ADVISORY: dangerously cold temperatures and/or wind chill readings are expected





Winter Hazards - Snow



A limb from a pine tree catches fire as it falls on a power line on Fallkill Road in Hyde Park. Town police said there were trees and limbs down throughout the area, with numerous power outages. *Barbara Gallo-Farrell/Poughkeepsie Journal*

**Heavy Wet Snow/Wind,
March 2, 2018**

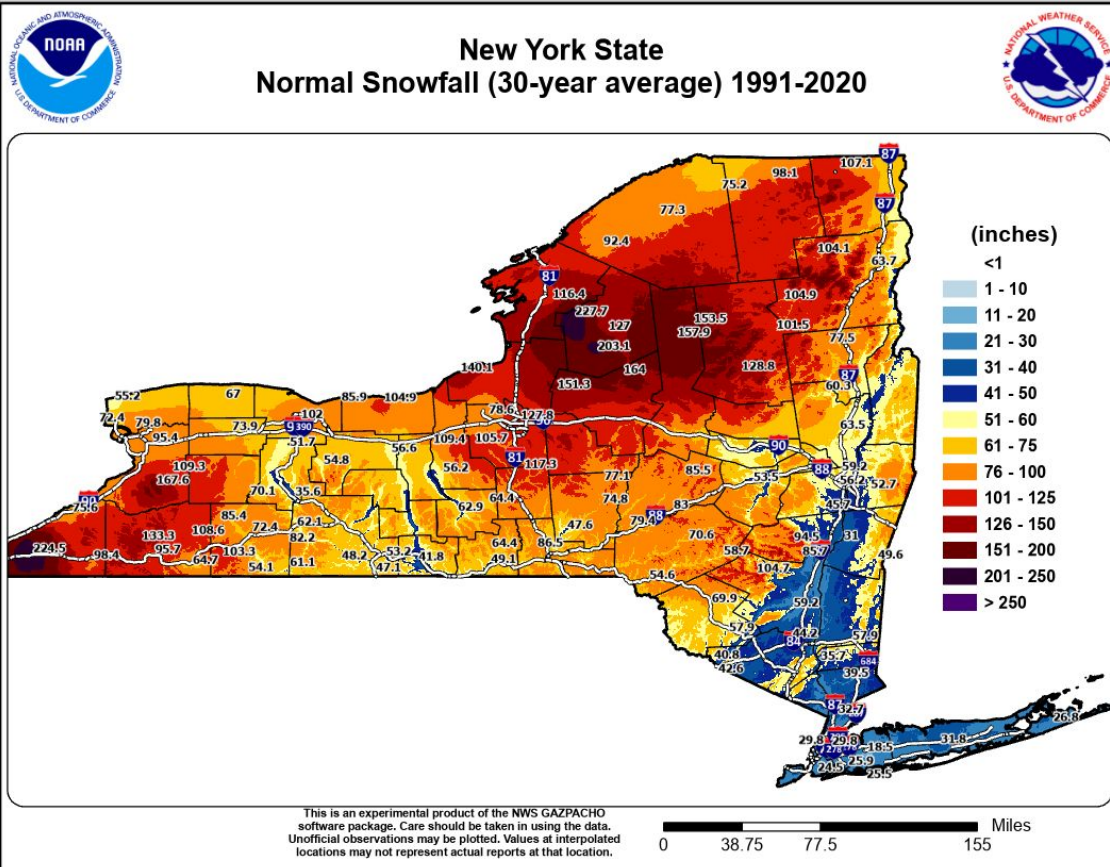
Impacts of Snow:

- Transportation issues: Slippery driving and walking conditions, airport closures, rail lines shut down. **#1 cause of weather related fatalities is traffic accidents on snow or ice.**
- High Snowfall Rates: Rapid accumulation and near zero visibility (2"/hr = ¼ mile visibility or less).
- Snow squalls: Biggest cause of pileups in interstate highways (NWS now issues snow squall warnings – only significant SQW WEA'd).
- Blowing Snow: Drifting snow blown back onto previously cleared and treated roads causing slippery driving conditions.
- Early/Late Snows (Oct/Nov/May) : 3" of snow with leaves on trees = downed trees and widespread power outages.
- Wind Driven Wet Snow: 6" of heavy, wet snow with strong winds can lead to downed trees and power outages (March 2018, April 2022).
- Prolonged accumulation periods (1-2 months) can lead to weight buildup on roofs and roof collapses. Run out of room to plow snow. Salt stockpiles run low.





Snowfall Normal (1991 - 2020)

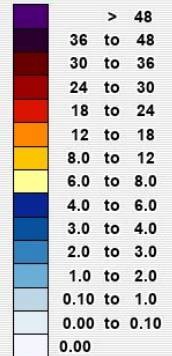




Winter Hazards - Snow - Dec 16-17, 2020 Nor'easter



Inches of depth

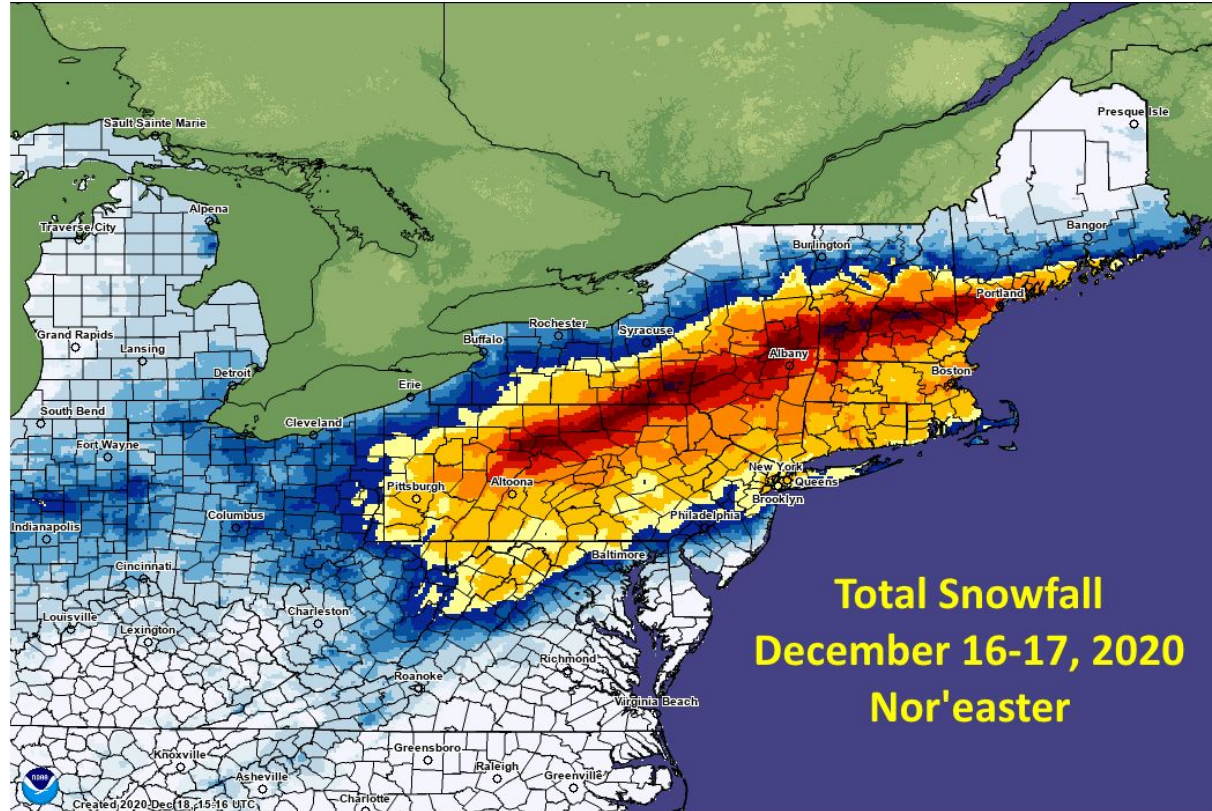


Not Estimated

Elevation in feet



Significant snowfall can be widespread across New York State.



**Total Snowfall
December 16-17, 2020
Nor'easter**

Created: 2020 Dec 18 21:51:16 UTC

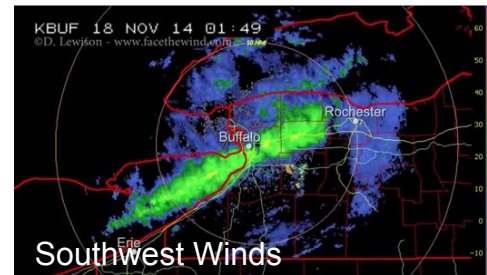
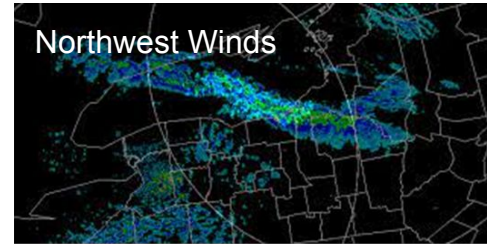




Winter Hazards - Lake Effect Snow Snow

Lake Effect Snow:

- Often narrow bands of snow off Lake Erie or Lake Ontario. Wind direction is important.
- Can have extreme snowfall rates (1" to 6" per hour)
- Most of the rest of New York State can be partly sunny and dry while lake effect areas are getting feet of snow.
- Problem on interstate highways where motorists can drive from dry road into white out.
- Leads to high annual snowfall averages in Buffalo, Rochester, Syracuse, Watertown and nearby areas.

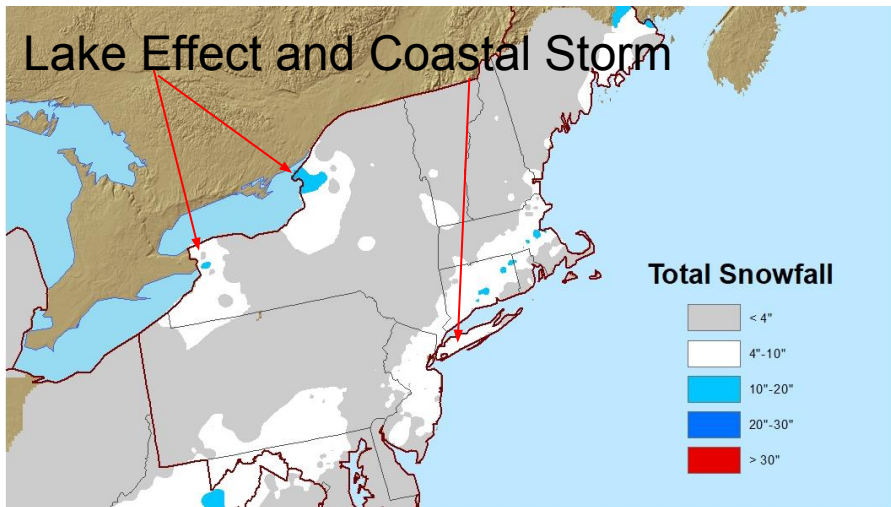




Winter Hazards - Snow Along Coast - Jan 2022

Northeast Snowfall Impact Scale (NESIS): <https://www.ncei.noaa.gov/access/monitoring/rsi/nesis>

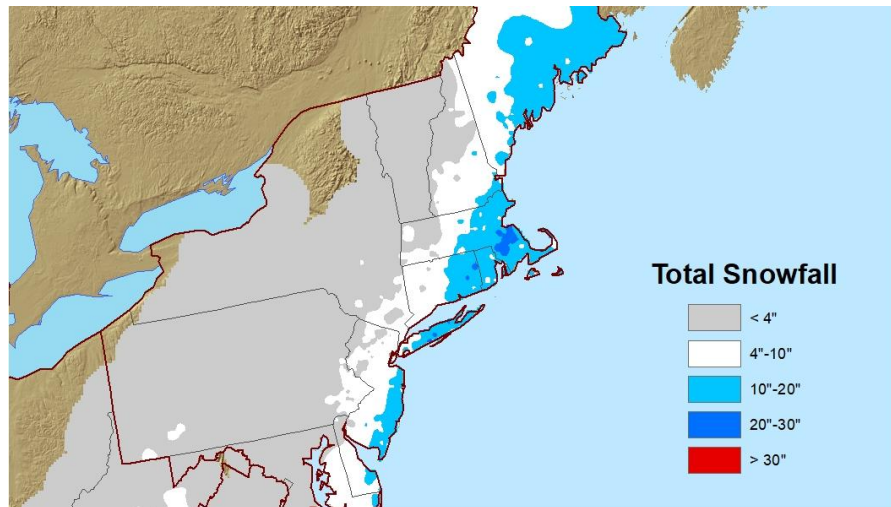
Lake Effect and Coastal Storm



January 4 - January 7, 2022

NESIS = 1.6

Category 1



January 28 - 30, 2022

NESIS = 1.73

Category 1



National Oceanic and
Atmospheric Administration
U.S. Department of Commerce

National Weather Service
Albany, NY



Winter Hazards - Snowy NYC Winters Since 1960

Winter	Dates	Days	Snowfall
--------	-------	------	----------

2010/11	- Dec 26 - Jan 27	39	57.6"
---------	-------------------	----	-------

1995/96	- Dec 19 - Feb 17	61	57.0"
---------	-------------------	----	-------

1960/61	- Dec 11 - Feb 4	56	53.8"
---------	------------------	----	-------

2013/14	- Jan 21 - Feb 18	29	42.1"
---------	-------------------	----	-------

1966/67	- Feb 6 - Mar 22	45	41.0"
---------	------------------	----	-------

1977/78	- Jan 13 - Feb 14	33	40.2"
---------	-------------------	----	-------

2014/15	- Jan 24 - Mar 5	41	39.4"
---------	------------------	----	-------

2009/10	- Feb 10 - 26	17	35.9"
---------	---------------	----	-------

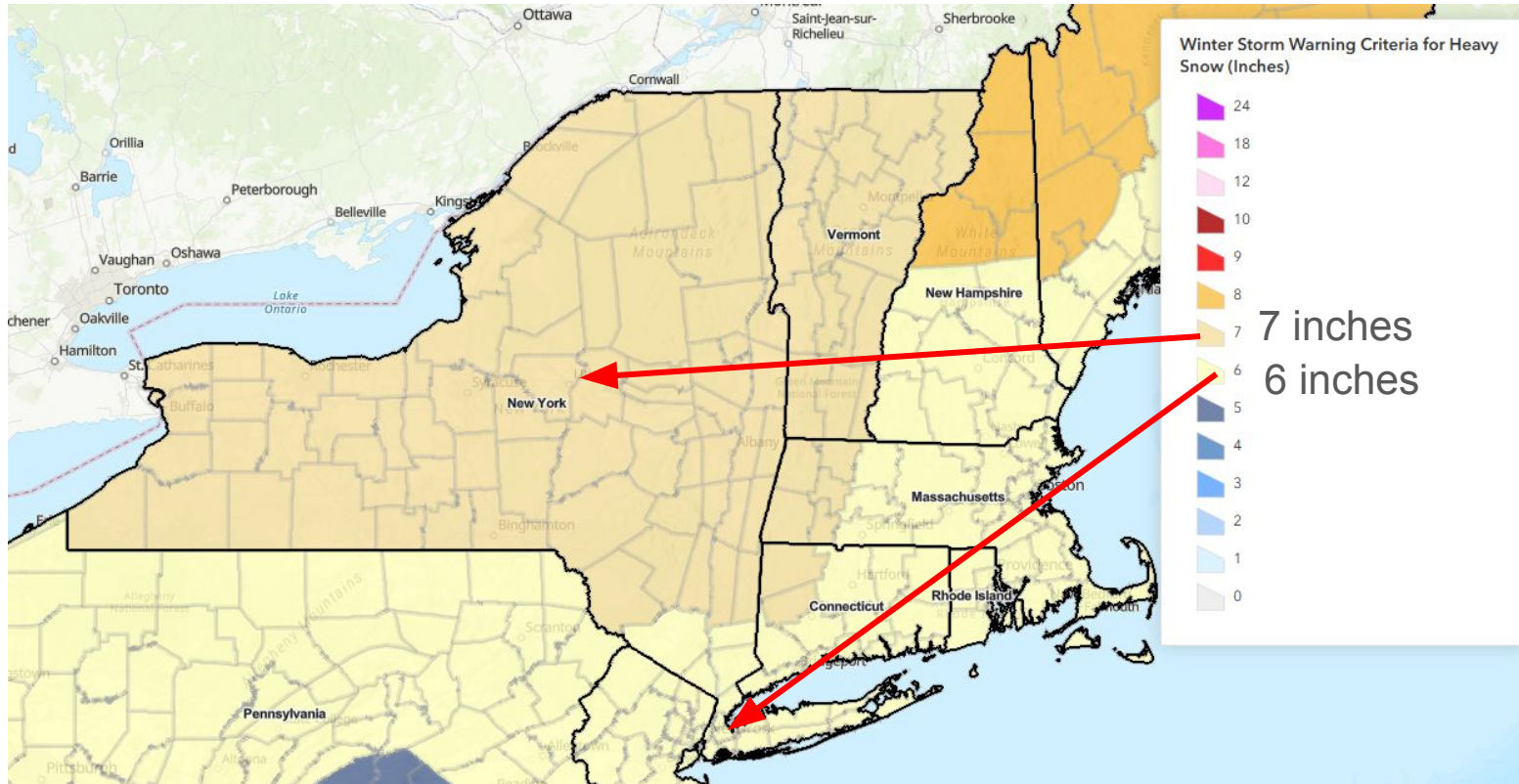
2004/05	- Jan 22 - Mar 1	39	32.7"
---------	------------------	----	-------

1993/94	- Feb 8 - Mar 3	24	29.8"
---------	-----------------	----	-------



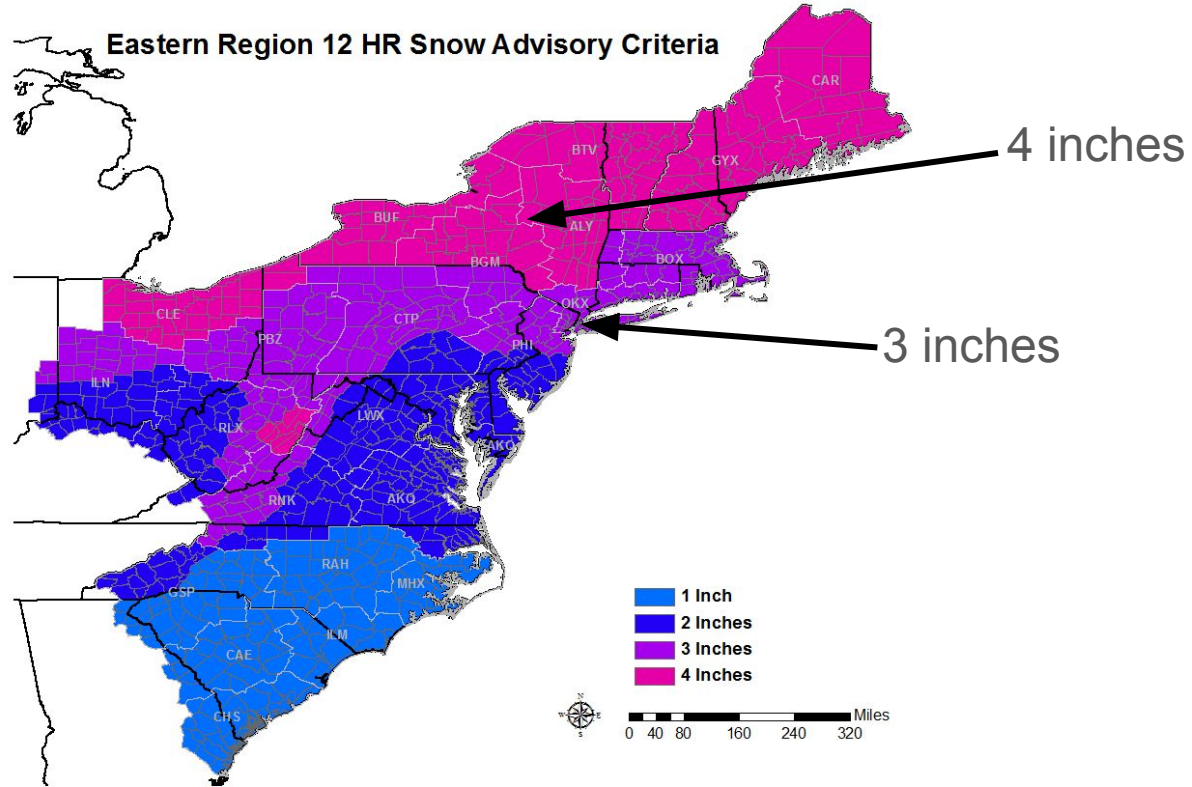


Winter Storm Watch/Warning Criteria - Snow





Winter Weather Advisory Criteria - Snow





Winter Hazards – Snow Squalls

Snow Squall Warning

Valid Until
9:45 AM EDT Friday
March 16, 2018

Threat Information



Hazard
White out conditions
in heavy blowing snow

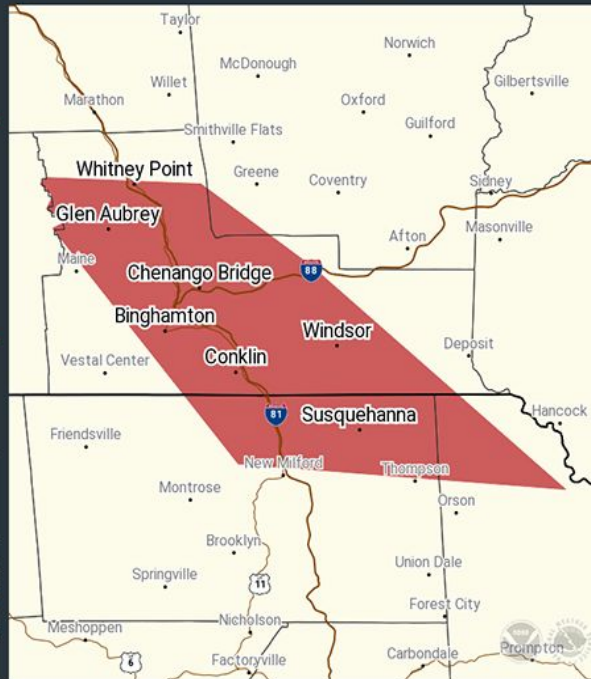


Impact
Dangerous life-
threatening travel

Potential Exposure



Population: 135,894
Highways: I-81
I-88
US-11



WWUS51 KBGM 021500
SQWBG

BULLETIN - IMMEDIATE BROADCAST REQUESTED
Snow Squall Warning
National Weather Service Binghamton NY
1000 AM EST Fri Feb 2 2018

NYC007-017-023-053-077-107-109-021600-
/O.NEW.KBGM.SQ.W.0001.180202T1500Z-180202T1600Z/
Osego NY-Broome NY-Madison NY-Cortland NY-Tioga NY-Tompkins NY-
Chenango NY-
1000 AM EST Fri Feb 2 2018

The National Weather Service in Binghamton has issued a

* Snow Squall Warning for...
Osego County in central New York...
Northwestern Broome County in central New York...
Southeastern Madison County in central New York...
Southern Cortland County in central New York...
Northeastern Tioga County in central New York...
Southeastern Tompkins County in central New York...
Chenango County in central New York...

* Until 1100 AM EST

* At 1000 AM EST, a dangerous snow squall was located along a line
extending from South Brookfield to near Taylor to Harford, moving
southeast at 30 mph.

HAZARD...Heavy snow.

SOURCE...Radar and webcams.

IMPACT...Dangerous life-threatening travel.

Locations impacted include...
Hyde Park, Johnson City, Oneonta, Norwich, Maine, Caroline, Guilford,
Brookfield, Virgil and Hartwick.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

Reduce your speed and turn on headlights! During snow squalls, the
visibility may suddenly drop to near zero in whiteout conditions.

&&

LAT...LCN 4251 7478 4251 7484 4249 7490 4238 7552
4213 7593 4236 7644 4268 7601 4286 7521
4286 7516 4288 7513 4289 7507 4252 7470

TIME...MOT...LOC 1500Z 309DEG 24KT 4275 7531 4264 7595 4243 7625

\$\$

DJN



National Oceanic and
Atmospheric Administration
U.S. Department of Commerce

National Weather Service
Albany, NY




Winter Hazards – Snow Squall Warnings



IMPACT-BASED Snow Squall Warnings

From now on, Snow Squall Warnings will trigger Wireless Emergency Alerts (WEAs) only in the most significant instances.

If you receive a Snow Squall Warning via Wireless Emergency Alert, delay travel or exit the highway at the next opportunity.

SNOW SQUALL WARNING IMPACT TAG	Explanation	Wireless Emergency Alert?
General (No Tag)	To be used during the overnight hours OR for snow squall conditions in which the threat to safe travel will be reduced if drivers reduce speed and increase stopping distance	No
Significant	Used only when snow squalls pose a <i>substantial</i> threat to safe travel.	 Yes





Winter Hazards – What Is a Blizzard?

WHAT'S A BLIZZARD?

 **BLOWING SNOW**

35+ MPH WINDS 

 **≤ 1/4 MI VISIBILITY**

FOR 3+ HOURS 

DID YOU KNOW THAT FALLING SNOW ISN'T NECESSARY FOR A BLIZZARD?

A BLIZZARD THAT RESULTS FROM SNOW THAT HAS PREVIOUSLY FALLEN IS CALLED A GROUND BLIZZARD.

WEATHER.GOV/WINTER

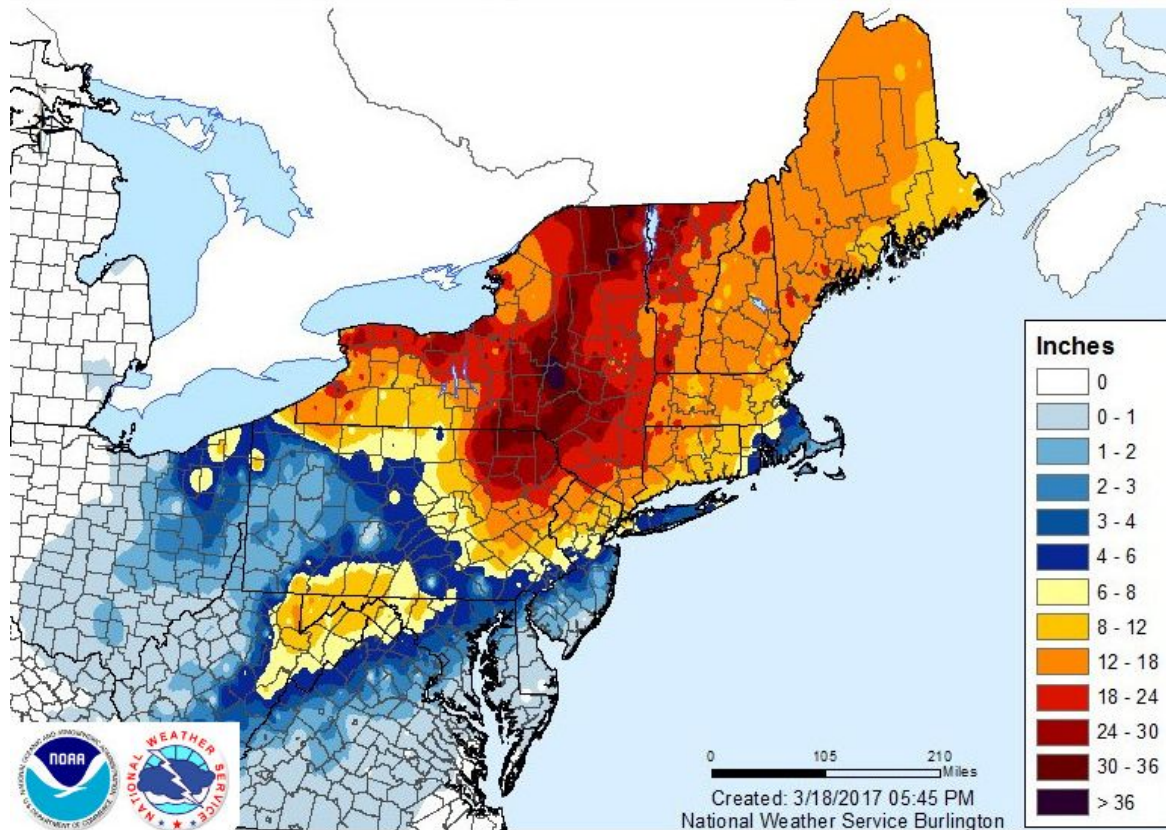




Winter Hazards – March 14, 2017 Blizzard

Strong winds resulted in significant blowing and drifting of snow.

Maximum measured wind gust in the Albany forecast area was 70mph.

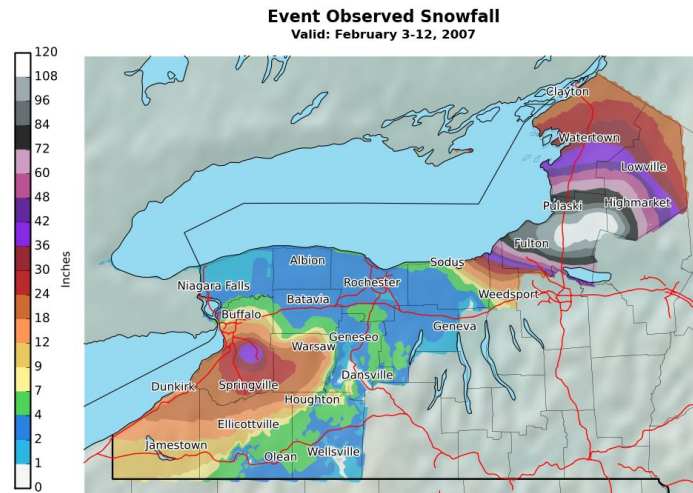




Winter Hazards - Back to Back Storms

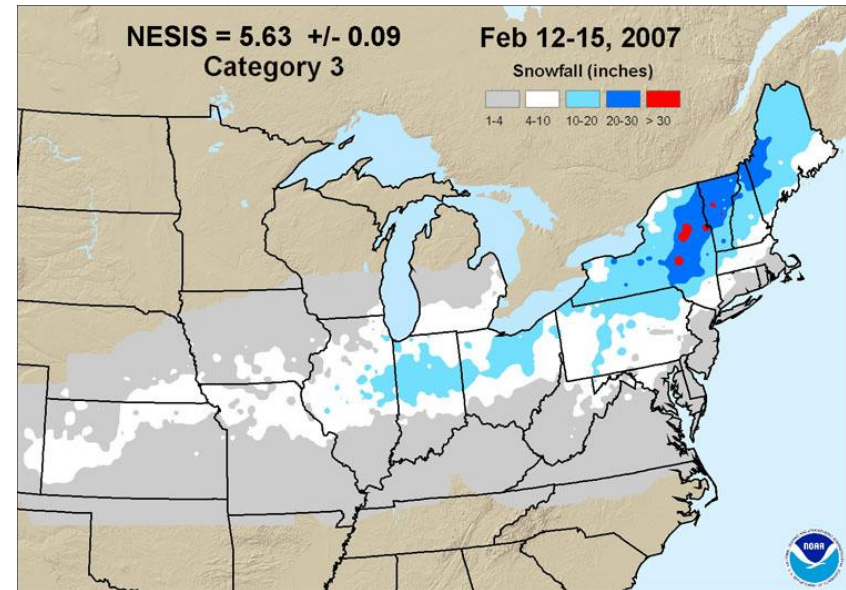
Multi-Day to week-long Lake Effect Event followed by a blizzard, or back to back storms in a week. Jan 1966, Dec 1969 and Feb 2007 are examples.

(<https://www.ncei.noaa.gov/access/monitoring/rsi/nesis>)



National Weather Service
Buffalo New York

Follow Us:   
weather.gov/BUF



National Weather Service
Albany, NY



National Oceanic and
Atmospheric Administration

U.S. Department of Commerce



Winter Hazards – Freezing Rain (Glaze)



Impacts of Ice:

- A trace of ice will cause slippery driving and walking conditions.
- One quarter inch of ice glaze accumulation on trees will start to bring down small branches.
- One half inch of ice glaze accumulation on trees and wires will cause numerous power outages (outages last a day or two - March 2024).
- One Inch or more of ice glaze accumulation on trees and wires causes widespread power outages (outages may last a week – Feb 2022, Dec 2008).
- Any wind with the ice will make matters worse.

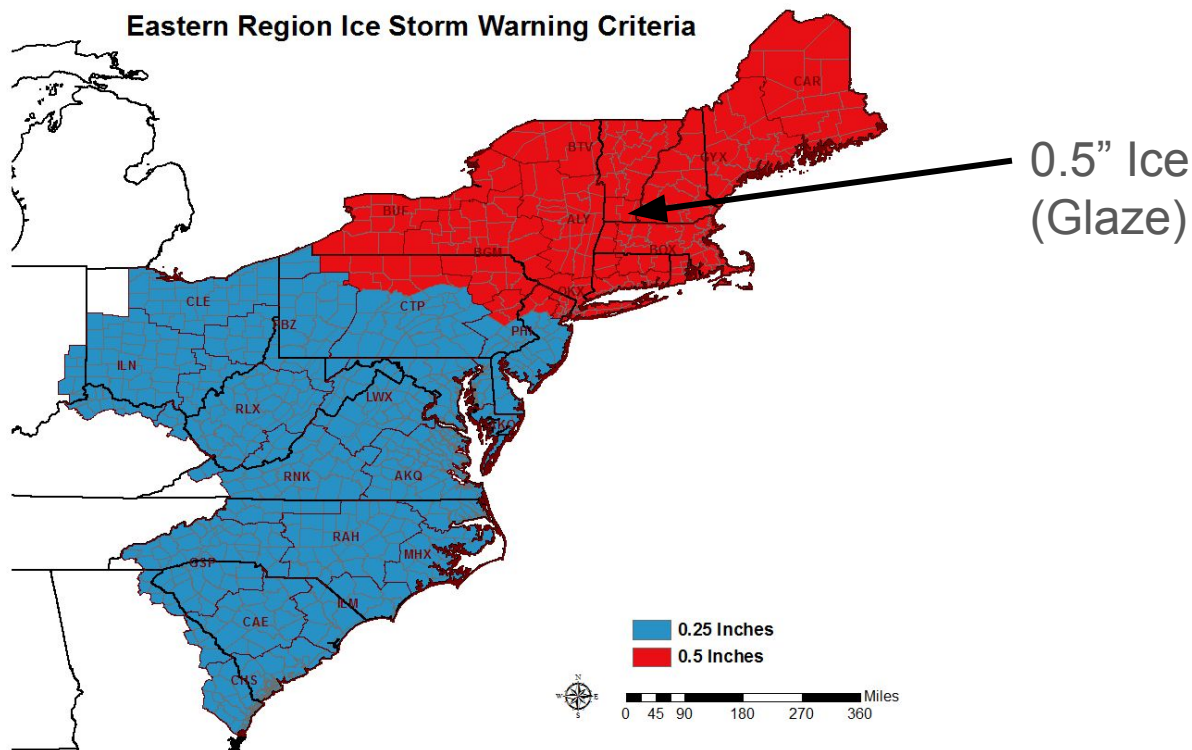


**Ice Storm Along Thruway,
Ulster County,
Feb 2022**



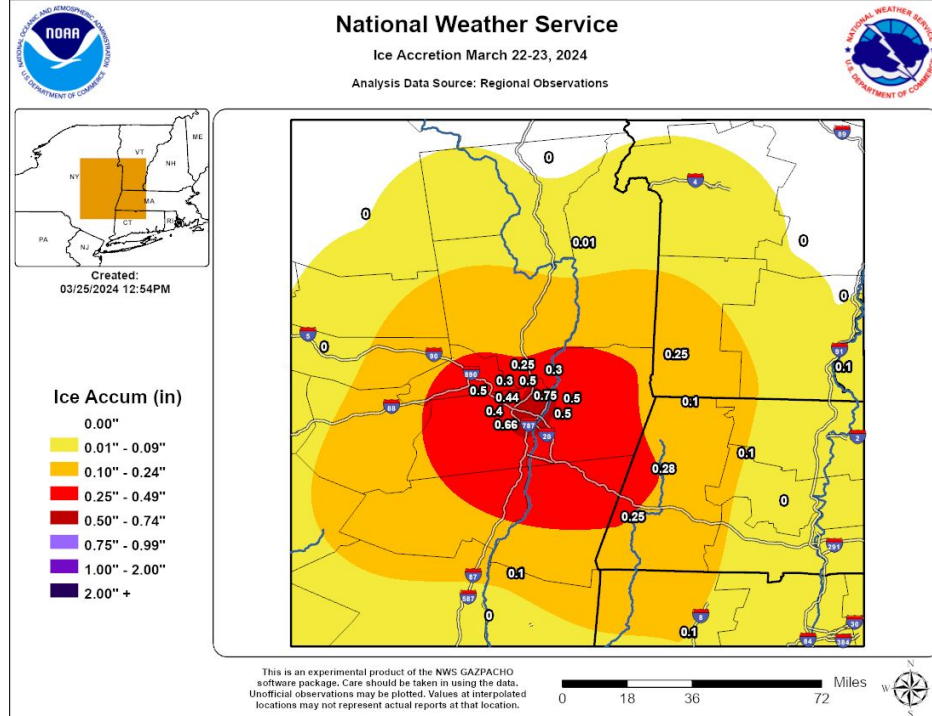
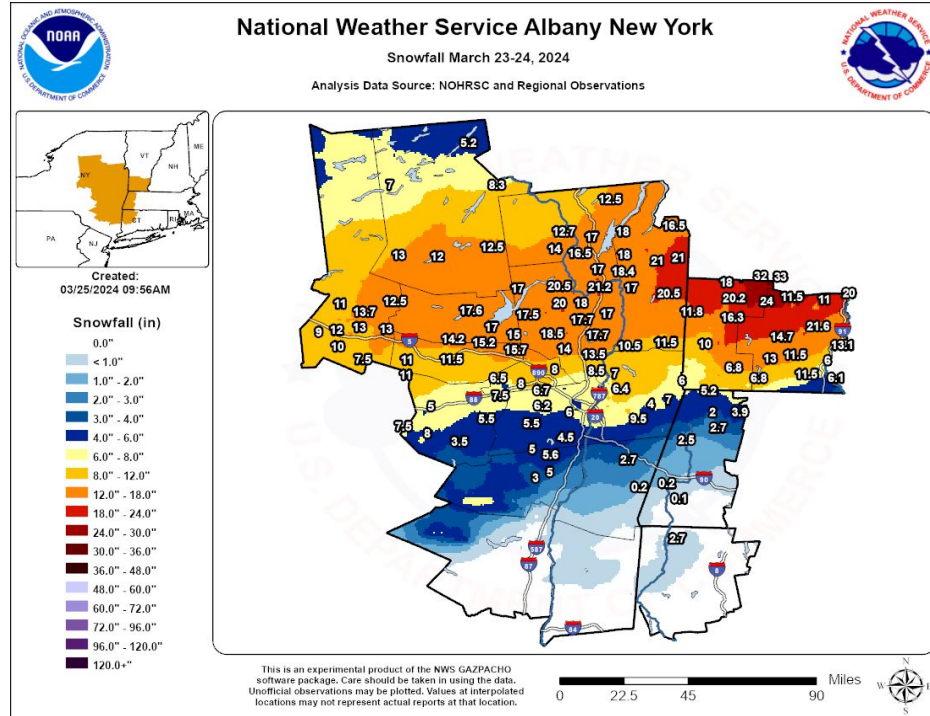


Winter Storm Watch/Warning Criteria - Ice





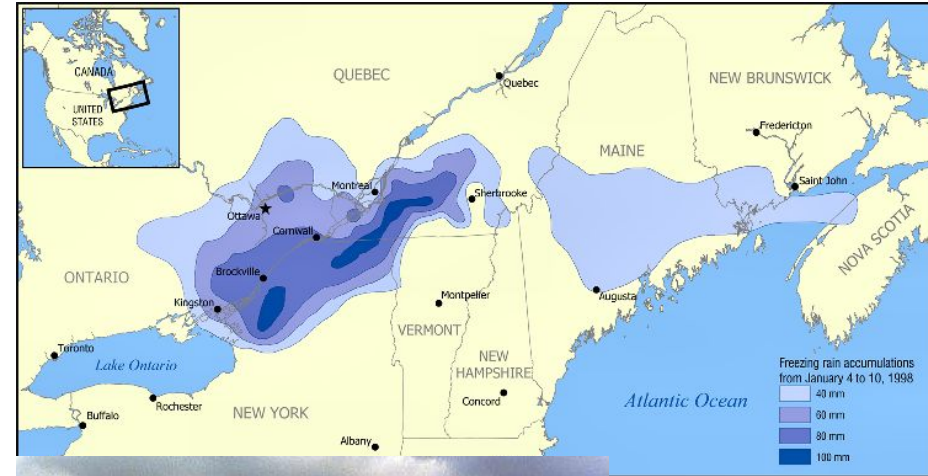
Winter Hazards - Snow And Ice (Mar 23-24, 2024)





January 1998 Ice Storm

- Affected northern NY.
- January 5-9, 1998.
- 1 to 4" of ice accumulation.
- Significant flooding occurred along the upper Hudson River.
- 16 fatalities





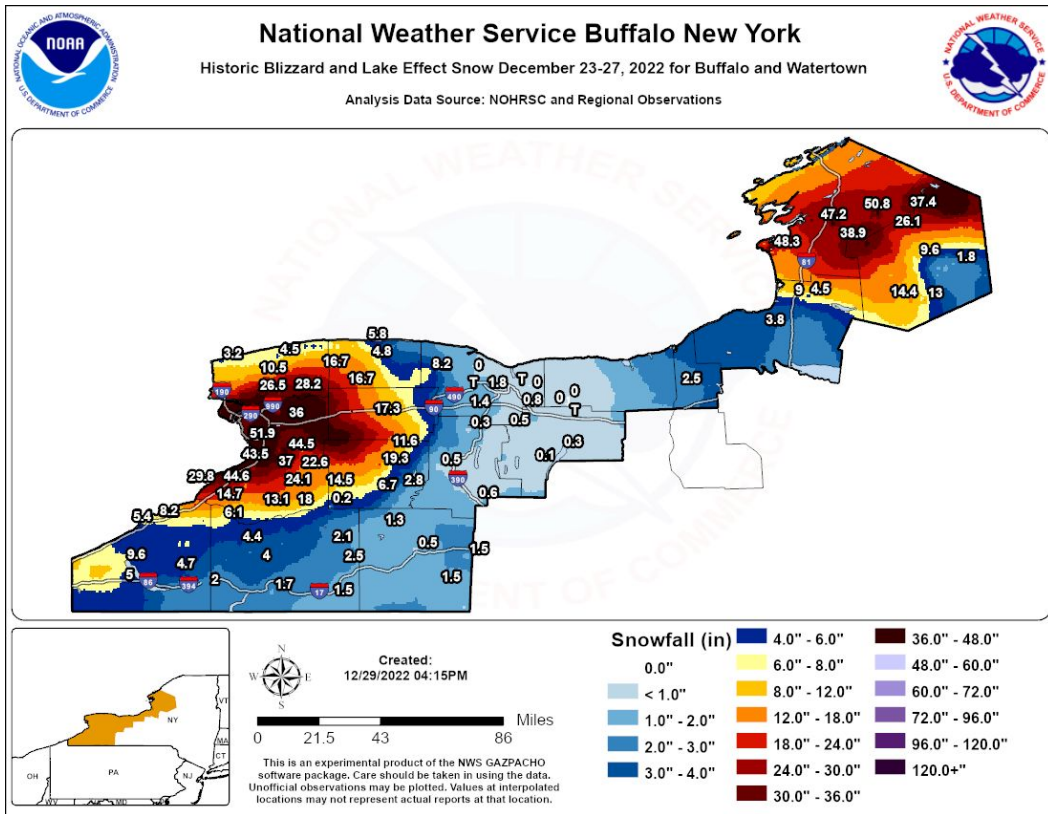
March 1991 Ice Storm

- Affected western and northern NY
- The ice storm hit on Sunday, March 3, 1991.
- More than 200,000 homes and businesses lost power in western New York.
- It took 14 days to get the lights back on for most Rochester area customers.

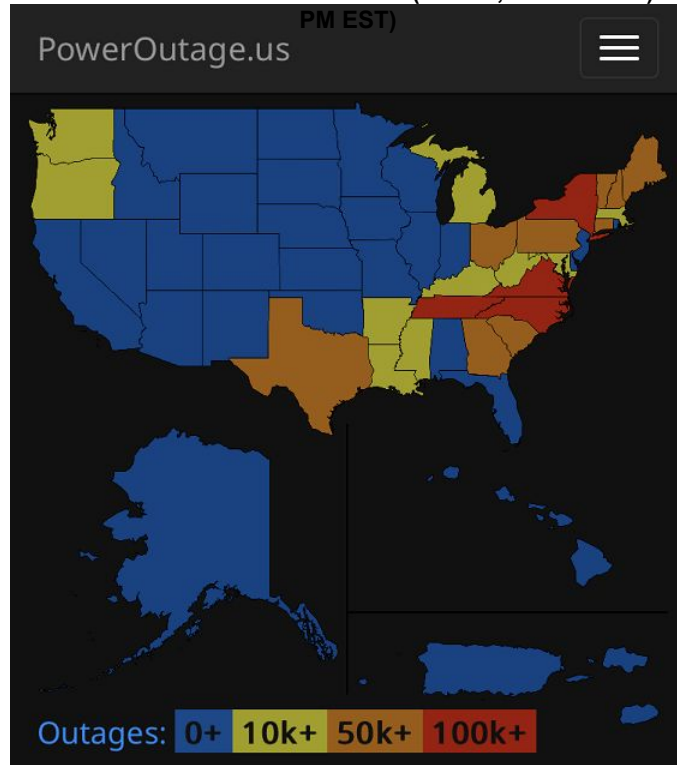




Winter Hazards – Strong Winds



Snapshot of power outages from the Dec 2022 storm that caused the Buffalo Blizzard (Dec 23, 2022 - 12:19 PM EST)



National Oceanic and Atmospheric Administration
U.S. Department of Commerce

National Weather Service
Albany, NY



Winter Hazards – Strong Winds - NWS Criteria

HIGH WIND WATCH:

- At least 50% chance for Sustained Winds 40+ mph (at least 1 hour) or Wind Gusts 58+ mph.

HIGH WIND WARNING:

- Expectation (at least 80% chance) for Sustained Winds 40+ mph or Wind Gusts 58+ mph
- Damage to structures and trees with potentially widespread power outages and blocked roads.

WIND ADVISORY:

- Expectation (at least 80% chance) for Sustained Winds 31-39 mph or Wind Gusts 46-57 mph
- Downed branches/power lines; scattered power outages and blocked roads.





Winter Hazards – Ice Jams And Ice Jam Flooding

Ice jams and Ice Jam Flooding:

- Prolonged cold periods cause thick buildup of ice on rivers and streams.
- Once thick ice builds, any thaw with melting snow and/or rain that causes rivers to rise, can cause ice jams.
- Rising water lifts and breaks up ice where it moves down stream and can jam up at favored locations like bridges, sharp bends in the river, narrows, culverts, etc.
- Jams act like dams and cause temporary lakes which can cause *rapid* flooding.
- If a jam lets loose, a flash flood (similar to a dam break) can happen downstream.





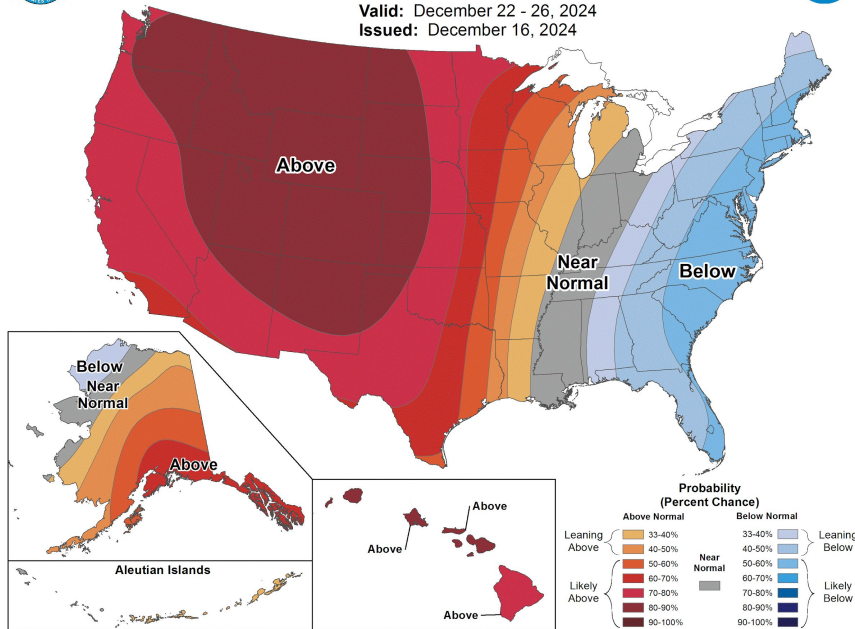
6-10 Day Outlook



6-10 Day Temperature Outlook

Valid: December 22 - 26, 2024

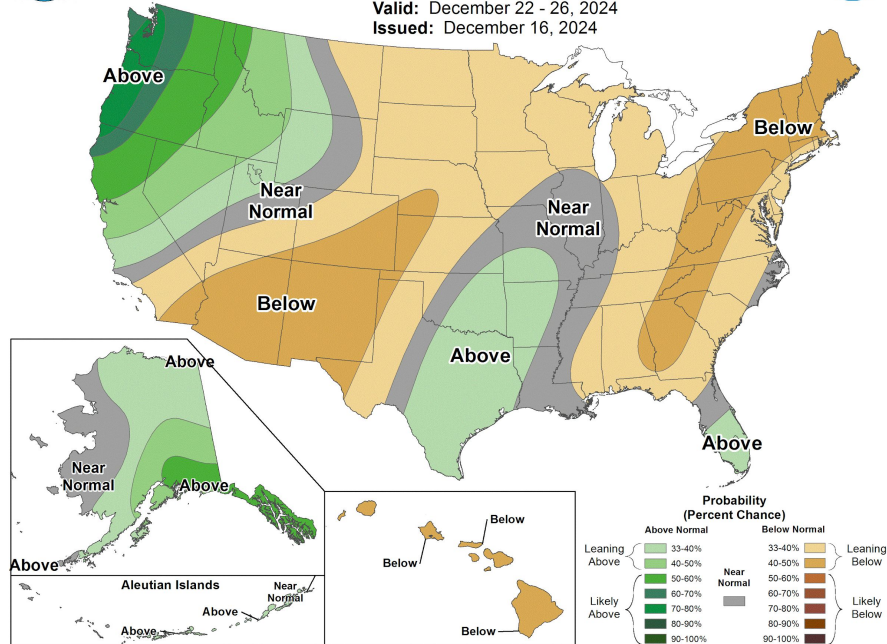
Issued: December 16, 2024



6-10 Day Precipitation Outlook

Valid: December 22 - 26, 2024

Issued: December 16, 2024





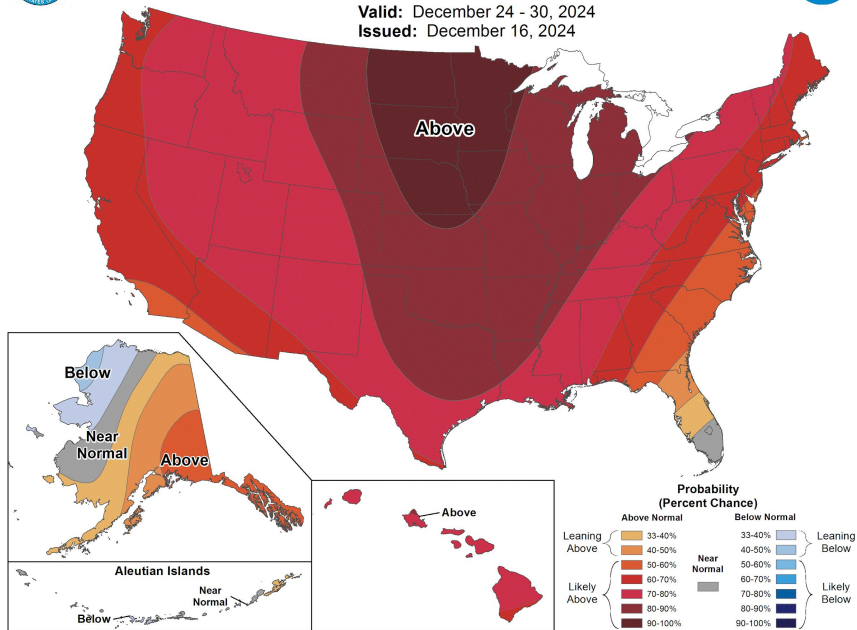
8-14 Day Outlook



8-14 Day Temperature Outlook

Valid: December 24 - 30, 2024

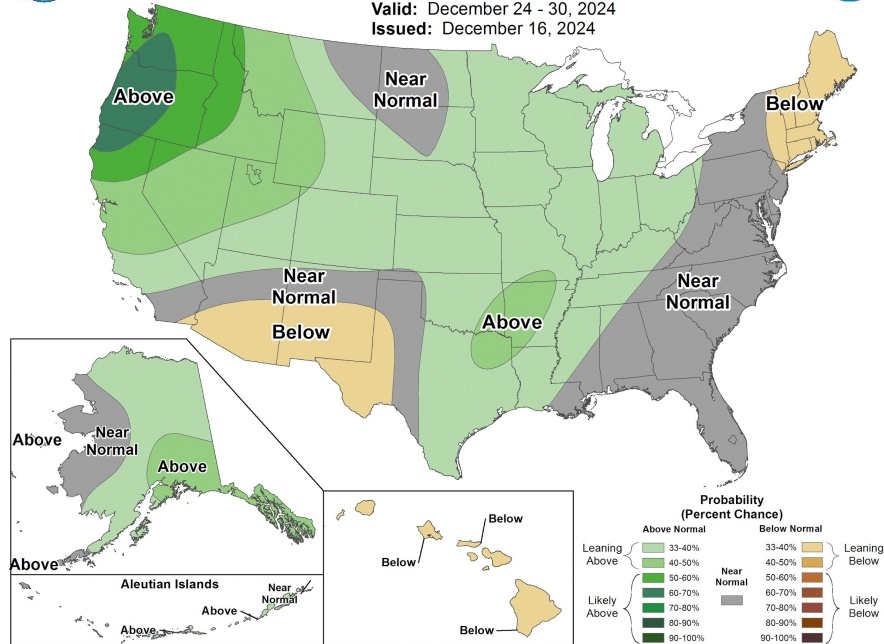
Issued: December 16, 2024



8-14 Day Precipitation Outlook

Valid: December 24 - 30, 2024

Issued: December 16, 2024





2024-2025 Winter Outlook

- NOAA's seasonal outlooks provide the likelihood that temperatures and total precipitation amounts will be above, near, or below-average, and how drought conditions are anticipated to change in the months ahead.
- The NOAA winter outlook does not project seasonal snowfall accumulations.
- The NOAA winter outlook only covers December through February.
- Winter in New York often begins in November and ends in April, therefore additional NOAA monthly and seasonal forecasts are needed to cover the whole of winter.
- NOAA's Climate Prediction Center updates the monthly and three-month outlooks each month. The next update will be available November 16.





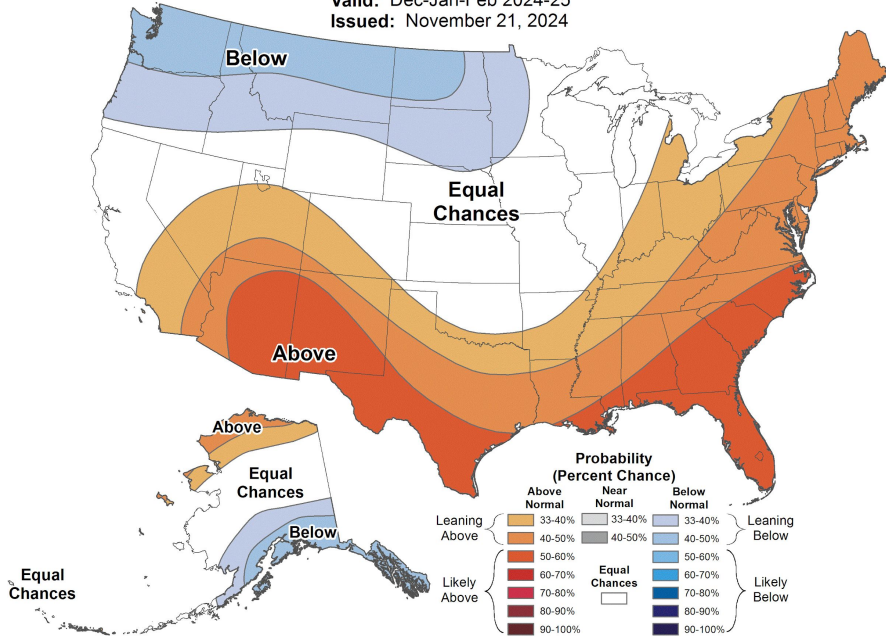
Winter Outlook (Dec 2024 - Feb 2025)



Seasonal Temperature Outlook



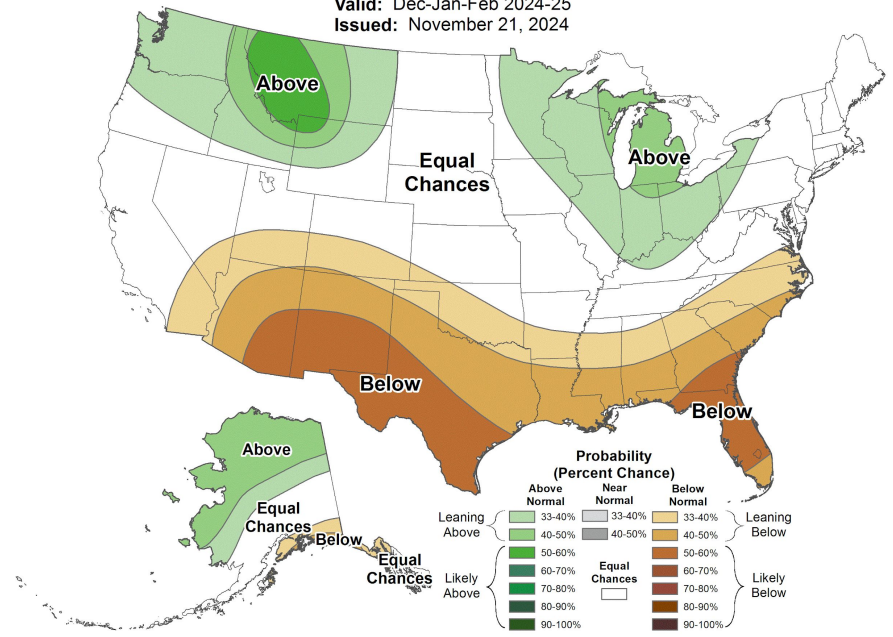
Valid: Dec-Jan-Feb 2024-25
Issued: November 21, 2024



Seasonal Precipitation Outlook



Valid: Dec-Jan-Feb 2024-25
Issued: November 21, 2024



Outlooks issued 3rd Thursday of each month





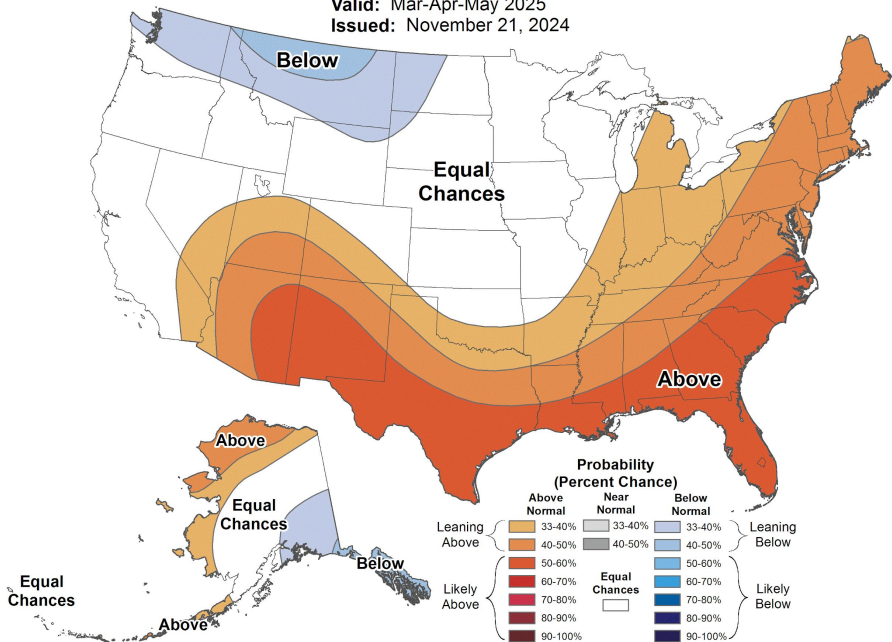
Winter Outlook (Dec 2024 - Feb 2025)



Seasonal Temperature Outlook



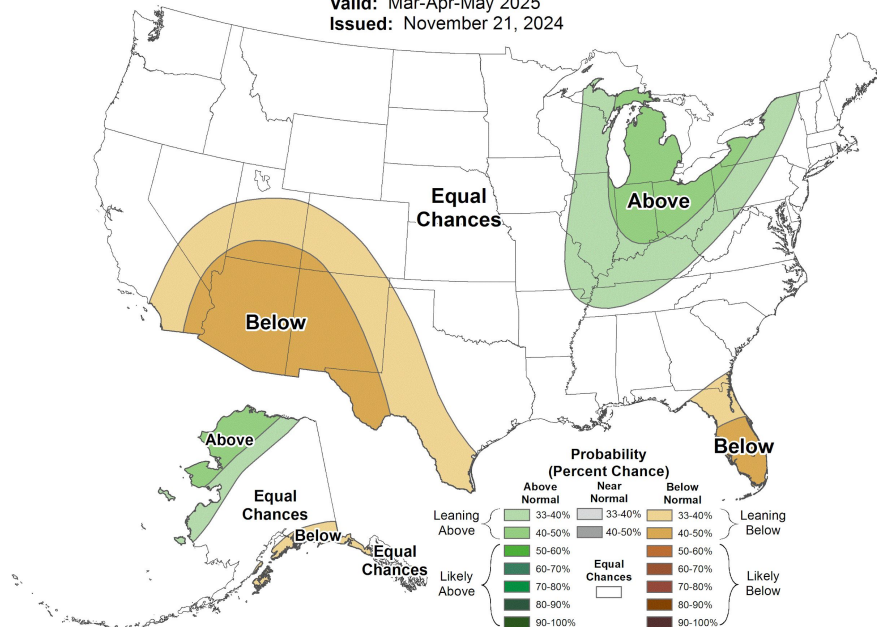
Valid: Mar-Apr-May 2025
Issued: November 21, 2024



Seasonal Precipitation Outlook



Valid: Mar-Apr-May 2025
Issued: November 21, 2024

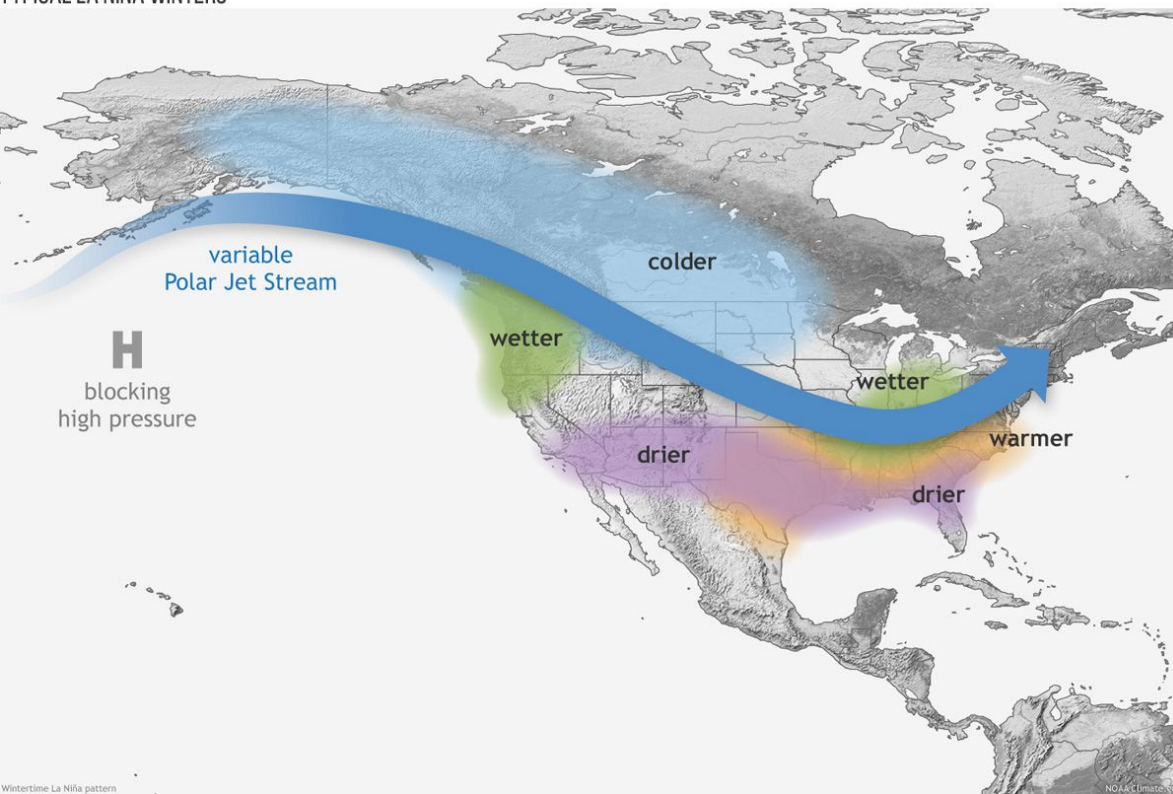


Outlooks issued 3rd Thursday of each month



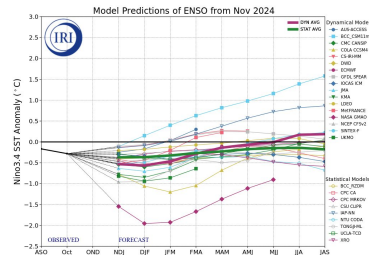
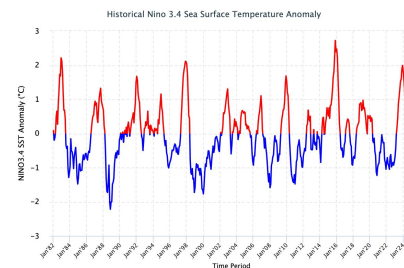
Winter Outlook - Weak La Niña Likely (Pacific Cool Phase)

TYPICAL LA NIÑA WINTERS



Idealized La Niña Winter Pattern:

- Warmer and wetter conditions for the Northeast
- U.S. Gulf Coast and Southeast: Drier and warmer than normal

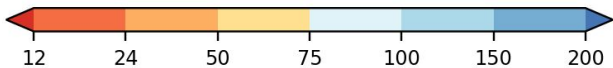
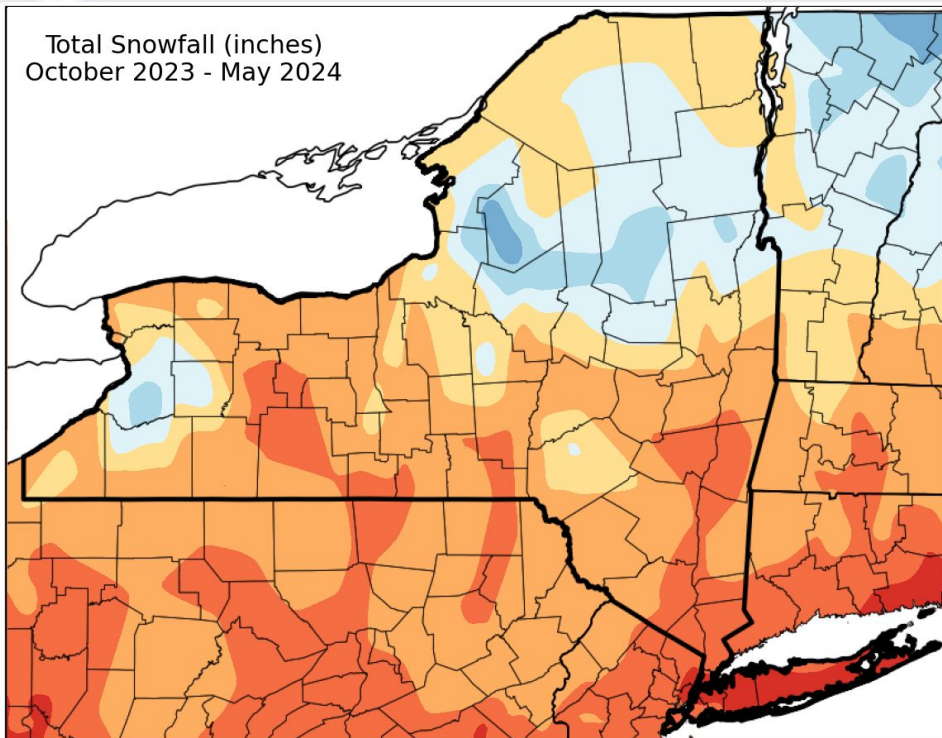


Wintertime La Niña pattern

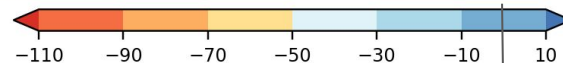
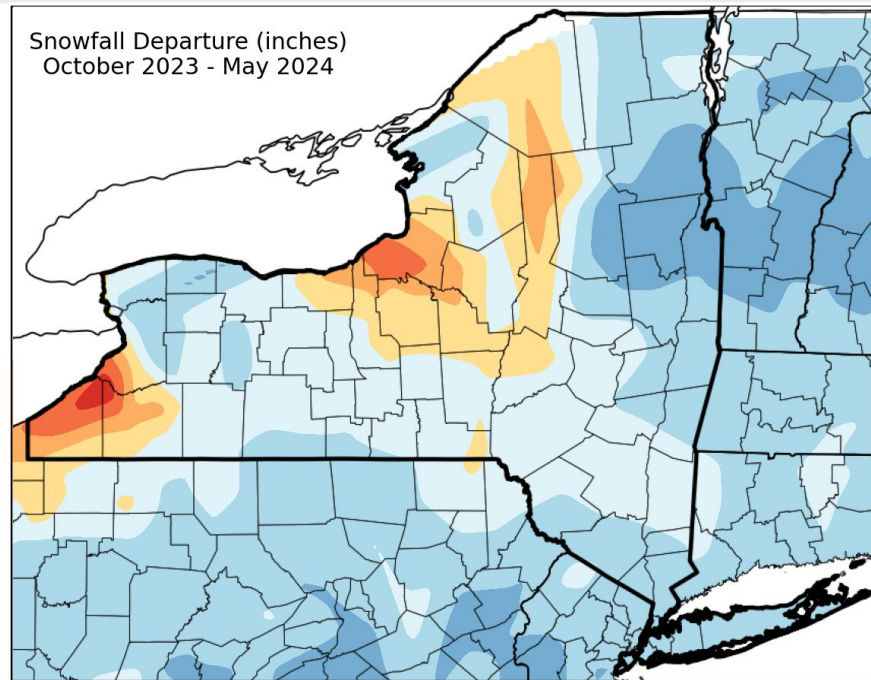


Snowfall Last Winter (2023 - 2024) vs Departure From Normal

Total Snowfall (inches)
October 2023 - May 2024



Snowfall Departure (inches)
October 2023 - May 2024



Below Normal





Accumulated Winter Season Severity Index

Accumulated Winter Season Severity Index (AWSSI):

Produced by the Midwestern Regional Climate Center (MRCC)

The severity of a winter is related to the intensity and persistence of cold weather, the amount of snow, and the amount and persistence of snow on the ground.

The Accumulated Winter Season Severity Index (AWSSI) was developed to objectively quantify and describe the relative severity of the winter season (1950-Present).

<https://mrcc.purdue.edu/research/awssi>

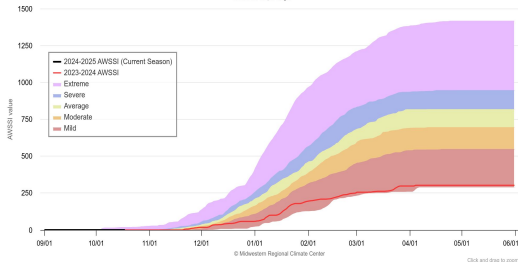




Winter Severity 2023-2024 - A Very Mild Winter

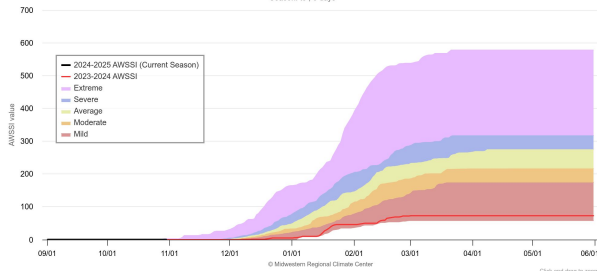
2024-2025 AWSSI: "NY - Albany"

Season: to , 0 days



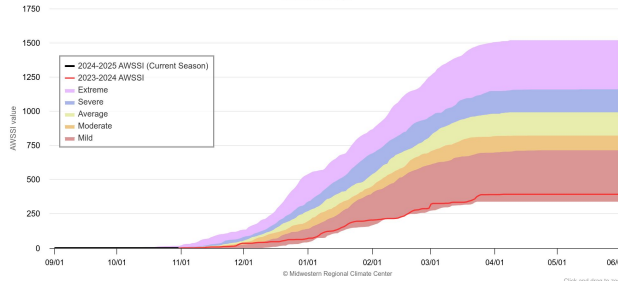
2024-2025 AWSSI: "NY - New York (Central Park)"

Season: to , 0 days



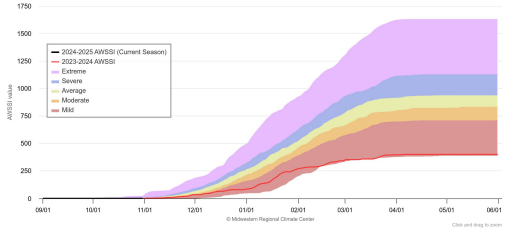
2024-2025 AWSSI: "NY - Syracuse"

Season: to , 0 days



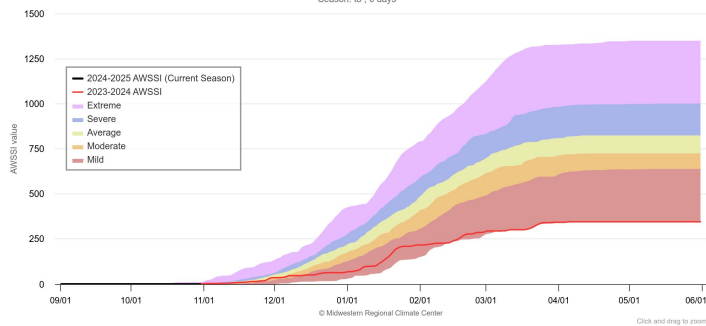
2024-2025 AWSSI: "NY - Binghamton"

Season: to , 0 days



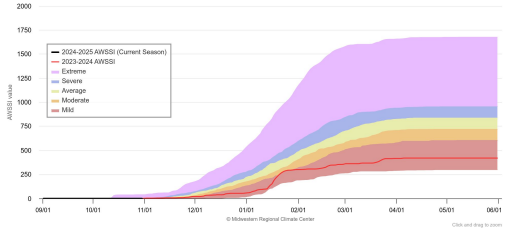
2024-2025 AWSSI: "NY - Rochester"

Season: to , 0 days



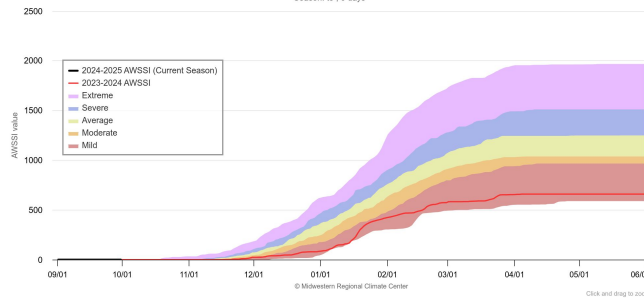
2024-2025 AWSSI: "NY - Buffalo"

Season: to , 0 days



2024-2025 AWSSI: "NY - Watertown"

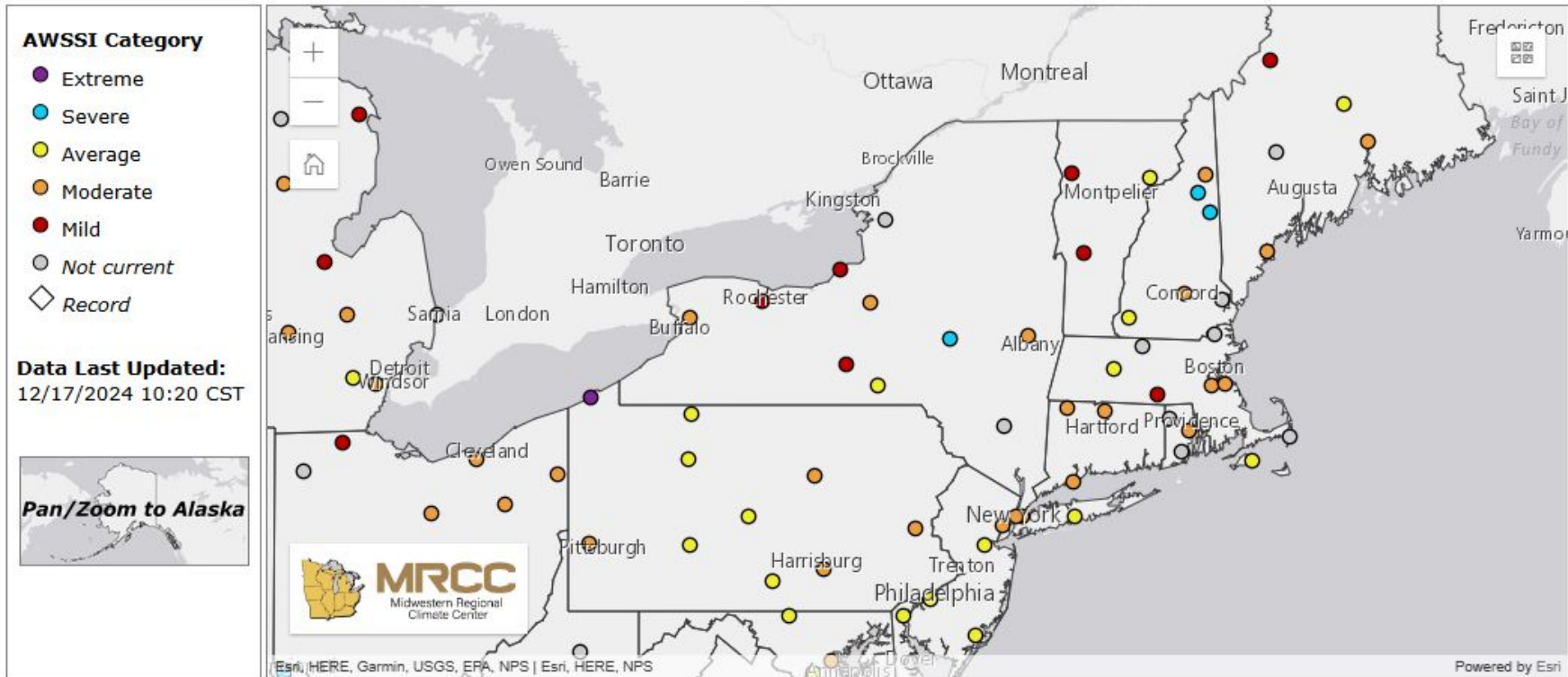
Season: to , 0 days





Winter Severity 2024-2025 - Mixed Signals So Far

Current Season





New York State Snow And Ice Information

NWS New York State Briefing Graphics “Winter” Tab: <https://www.weather.gov/aly/nys>

New York State Briefing Graphics

[Weather.gov](#) > [Albany, NY](#) > New York State Briefing Graphics

Albany, NY

Weather Forecast Office

[Current Hazards](#) [Current Conditions](#) [Radar](#) [Forecasts](#) [Rivers and Lakes](#) [Climate and Past Weather](#) [Local Programs](#)

Watches/Warnings/Advisories	Observations/Reports/Forecasts	Thunderstorms/Tornadoes
Precipitation/Flooding Threat	Winter Drought Fire Weather	Hazards Outlooks Heat Cold Wind Gusts
Great Lakes & Coastal Hazards	1991-2020 Normals Fact Sheets	

[New York State Thruway Weather Support Matrices](#)

[Snowfall Forecast & Probabilistic Graphics / Ice Accumulation Forecast - New York State](#)



Expected Snowfall
Official Forecast



High End Snowfall Amount
1 in 10 chance of higher
snowfall



Low End Snowfall Amount
9 in 10 chance of higher
snowfall



Expected Ice Accumulation
Official Forecast

[Radial Ice vs. Flat Ice
Explanation](#)

[Winter Weather Forecast Discussion - WPC](#)

[Probabilistic Winter Precipitation Guidance: Days 1-3](#)

[Winter Storm Severity Index - WSSI](#)

[Experimental Winter Storm Outlook: Days 1-4](#)

[Probabilistic Winter Storm Severity Index - PWSSI](#)

[Days 4-7 Winter Weather Outlook](#)

[Snowfall Forecast & Probabilistic Graphics by NWS Office](#)



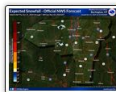
Western New York
western Finger Lakes
Two Hill Plateau



Central New York
eastern Finger Lakes
Southern Tier



Capital District
Mohawk Valley
Mid Hudson Valley



North
Country



New York City
Long Island
Lower Hudson Valley

[New York State Day 1, Day 2 & Day 3 Snow Extremes by County --- If NCEI page down use this link](#)



National Oceanic and
Atmospheric Administration
U.S. Department of Commerce

National Weather Service
Albany, NY



NWS New York Snow And Ice Information

<https://www.weather.gov/aly/nysDSSMatrix>

New York State Weather Support Matrices

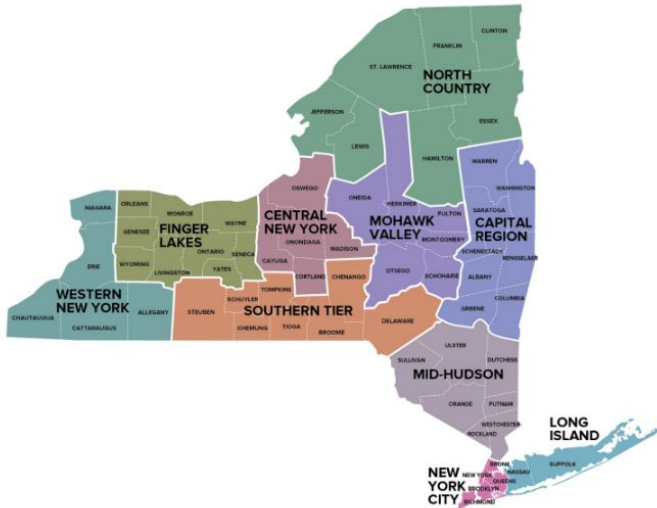
[Weather.gov](#) > [Albany, NY](#) > New York State Weather Support Matrices

Albany, NY

Weather Forecast Office

[Current Hazards](#) [Current Conditions](#) [Radar](#) [Forecasts](#) [Rivers and Lakes](#) [Climate and Past Weather](#) [Local Programs](#)

Click on map region to get weather support matrix



MY FORECAST
Albany International
Airport NY



Partly Cloudy

72°F

22°C

[Get Detailed Info](#)

This Afternoon



Mostly Sunny

High: 80°F

Tonight



Mostly Cloudy then

Chance Showers

Low: 60°F

[change location](#)

NYS Thruway Weather Support Matrices

[Weather.gov](#) > [Albany, NY](#) > NYS Thruway Weather Support Matrices

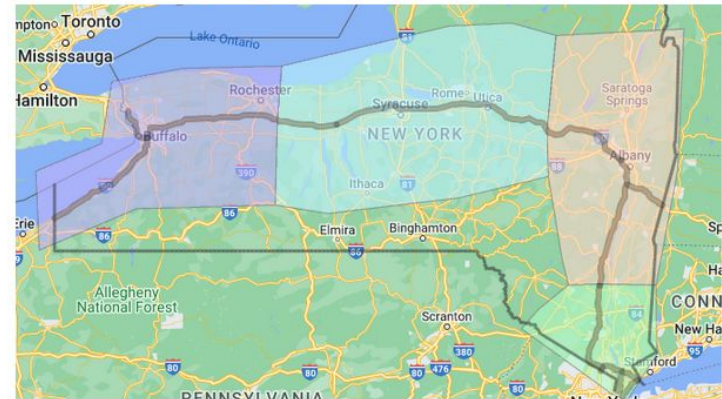
Albany, NY

Weather Forecast Office

[Current Hazards](#) [Current Conditions](#) [Radar](#) [Forecasts](#) [Rivers and Lakes](#) [Climate and Past Weather](#)

[Local Programs](#)

Click on map region to get weather support matrix



NYS Thruway Divisions:

[Buffalo](#) -- [Syracuse](#) -- [Albany](#) -- [New York](#)



National Oceanic and
Atmospheric Administration
U.S. Department of Commerce

National Weather Service
Albany, NY



NWS New York Snow And Ice Information

<https://www.weather.gov/aly/nysDSSMatrix>

Impact Matrix for Weather Support (42.7377,-78.8215)
National Weather Service Albany, New York

	Thu Dec 12 10 am	Thu Dec 12 1 pm	Thu Dec 12 4 pm	Thu Dec 12 7 pm	Thu Dec 12 10 pm	Fri Dec 13 1 am	Fri Dec 13 4 am	Fri Dec 13 7 am	Fri Dec 13 10 am	Fri Dec 13 1 pm	Fri Dec 13 4 pm	Fri Dec 13 7 pm	Fri Dec 13 10 pm	Sat Dec 14 1 am	Sat Dec 14 4 am	Sat Dec 14 7 am	Sat Dec 14 10 am	Sat Dec 14 1 pm	Sat Dec 14 4 pm	Sat Dec 14 7 pm	Sat Dec 14 10 pm	Sun Dec 15 1 am	Sun Dec 15 4 am	Sun Dec 15 7 am	Sun Dec 15 10 am
Temperature	20°F	21°F	23°F	21°F	20°F	18°F	16°F	18°F	17°F	21°F	23°F	17°F	14°F	12°F	10°F	9°F	15°F	27°F	32°F	28°F	27°F	28°F	30°F	31°F	32°F
Wind Chill	3°F	4°F	7°F	8°F	6°F	3°F	3°F	4°F	5°F	11°F	15°F	9°F	7°F	5°F	2°F	3°F	7°F	20°F	26°F	21°F	19°F	20°F	21°F	22°F	24°F
Chance of Precipitation	97%	89%	78%	99%	100%	100%	49%	12%	12%	12%	12%	12%	5%	5%	5%	5%	1%	0%	0%	0%	0%	2%	2%	51%	51%
3 hour Snowfall	4 in	5 in	1 in	4 in	4 in	2 in	Trace	0 in	0 in	Trace	Trace	0 in	0 in	0 in	0 in	0 in	0 in	0 in	0 in	0 in	0 in	0 in	0 in	0 in	0 in
3 hour Freezing Rain	0 in	0 in	0 in	0 in	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wind Direction	WSW	WSW	WSW	WSW	W	W	W	W	W	WSW	SW	S	SSE	SE	SE	ESE	SE	SE	ESE	SE	SE	SSE	SSE	SSE	SSE
Wind Speed	25 mph	28 mph	23 mph	21 mph	17 mph	15 mph	14 mph	10 mph	9 mph	9 mph	8 mph	6 mph	5 mph	4 mph	4 mph	4 mph	6 mph	7 mph	7 mph	8 mph	8 mph	9 mph	9 mph	10 mph	10 mph
Wind Gust	39 mph	43 mph	41 mph	35 mph	28 mph	24 mph	22 mph	18 mph	16 mph	16 mph	15 mph	10 mph	7 mph	7 mph	7 mph	8 mph	12 mph	13 mph	12 mph	14 mph	17 mph	18 mph	19 mph	20 mph	21 mph
Sky Cover	96%	89%	95%	100%	99%	94%	50%	47%	53%	59%	50%	44%	41%	32%	17%	15%	29%	48%	59%	66%	79%	90%	92%	87%	98%

Impact Level	None	Low	Medium	High	Extreme
Temperature	>=35°F	35 to 32°F	32 to 23°F	23 to 5°F	<5°F
Wind Chill	>=0°F	0 to -15°F	-15 to -25°F	-25 to -35°F	<-35°F
Chance of Precipitation	<=15%	15 to 30%	30 to 50%	50 to 70%	>70%
3 hour Snowfall	<=0.1 in	0.1 to 1 in	1 to 3 in	3 to 5 in	>5 in
3 hour Freezing Rain	<=0 in	0 to 0.01 in	0.01 to 0.1 in	0.1 to 0.25 in	>0.25 in
Wind Direction	All Values				
Wind Speed	<=15 mph	15 to 25 mph	25 to 35 mph	35 to 45 mph	>45 mph
Wind Gust	<=15 mph	15 to 25 mph	25 to 35 mph	35 to 45 mph	>45 mph
Sky Cover	<=30%	30 to 50%	50 to 70%	>70%	

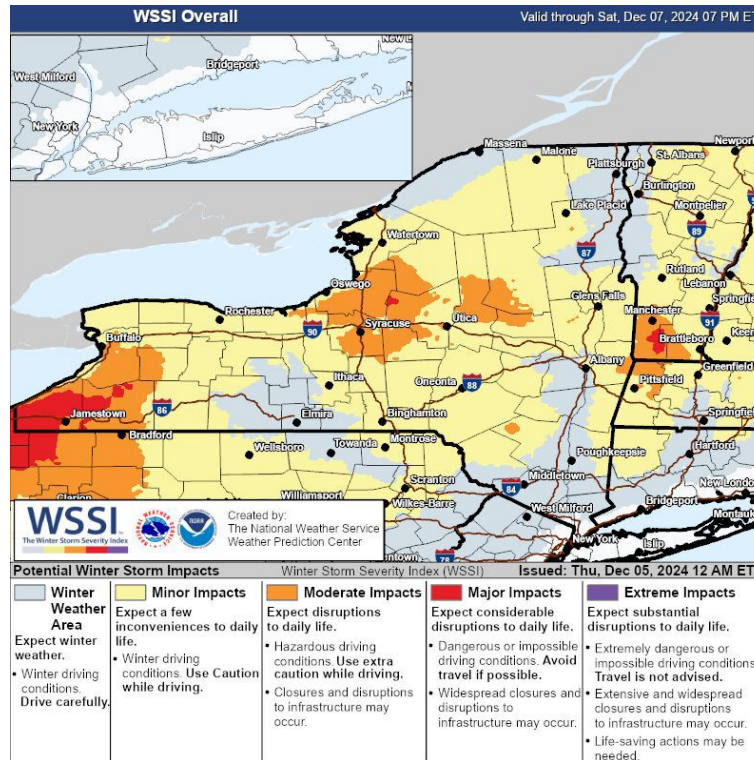




Days 1-3 Winter Storm Severity Index

NWS Weather Prediction Center: <https://www.wpc.ncep.noaa.gov/wwd/wssi/wssi.php>

Based on NWS
Deterministic
forecast - “expected
amount”



National Oceanic and
Atmospheric Administration
U.S. Department of Commerce

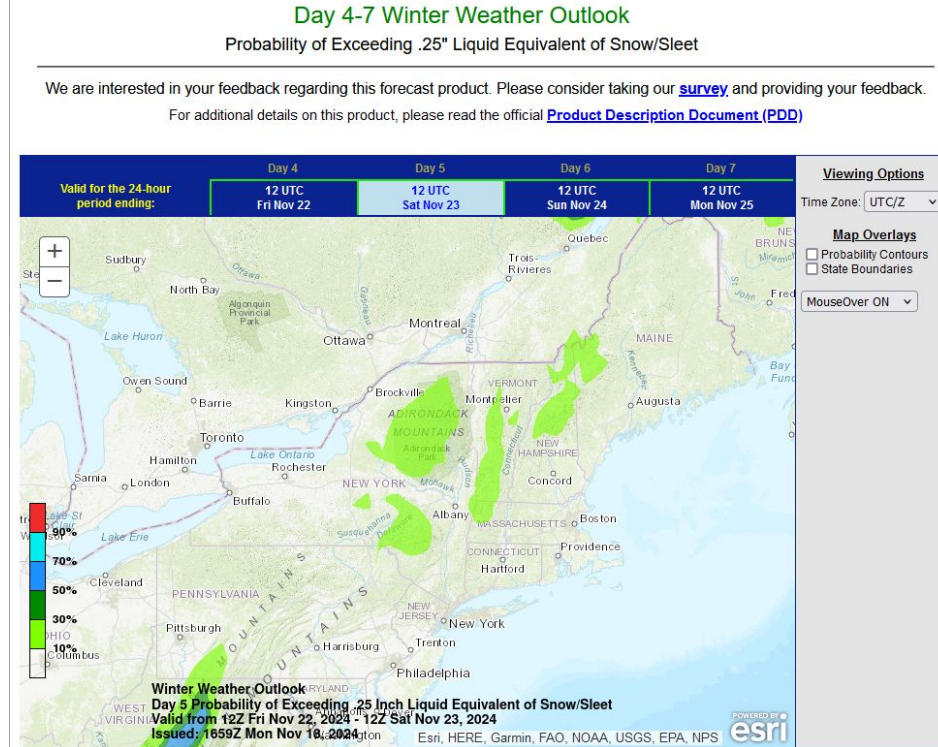
National Weather Service
Albany, NY



Days 4-7 Probabilistic Snow And Ice Information

NWS Weather Prediction Center: https://www.wpc.ncep.noaa.gov/wwd/pwpf_d47/pwpf_medr.php?day=5

“Probability of a plowable snow”





Days 4-7 Probabilistic Snow And Ice Information

NWS Weather Prediction Center: https://www.wpc.ncep.noaa.gov/wwd/wssi/prob_wssi.php

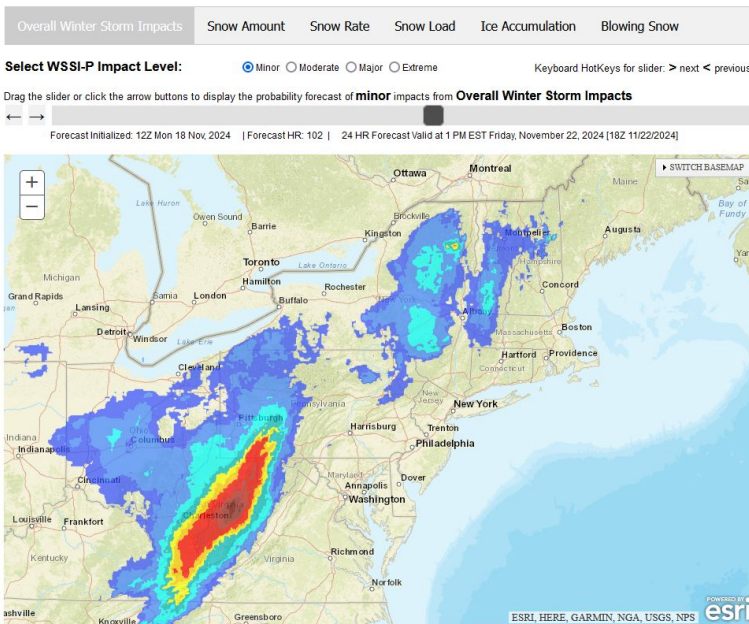
Probabilistic Winter Storm Severity Index (WSSI-P)

This display shows the Probabilistic WSSI for a period of 24 hours. Each time-step forward is 6 hours starting at 24 hours and extending to 168 hours. As you move forward in time using the slider bar you can see how the WSSI-P is changing every six hours out to the end of the end of day 7 (168 hours). Select the tab with the element name of interest and then select the impact level radio button you are interested in.

USER GUIDE | [HERE](#)

PRODUCT DESCRIPTION DOCUMENT (PDD) | [HERE](#)

INFOGRAPHIC | [HERE](#)



National Oceanic and
Atmospheric Administration
U.S. Department of Commerce

National Weather Service
Albany, NY



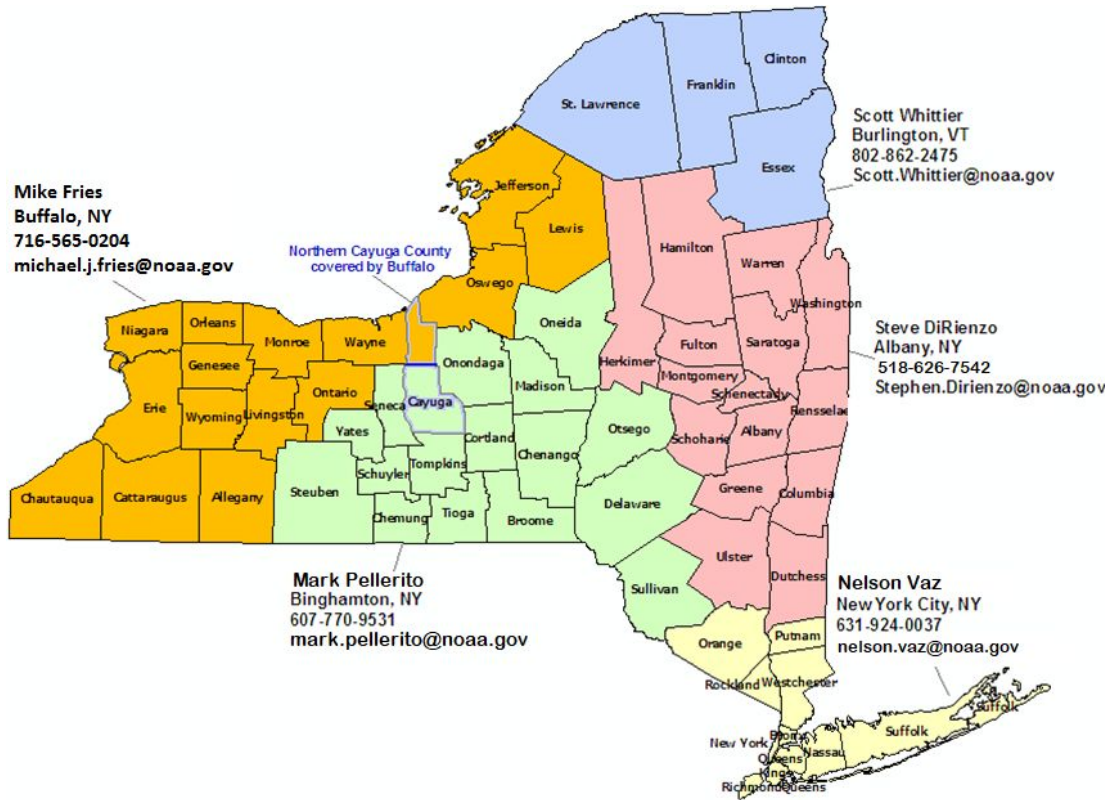
Review

- Changes to Cold/Wind Chill Criteria
- Impacts of Snow and Ice
- Winter Storm Warning/Winter Weather Advisory Criteria
- Wind Watch, Warning and Advisory Criteria
- NOAA/NWS Winter Outlook (2024 - 2025)
- La Niña Winter Tendencies
- Last Winter
- NWS Winter Weather Links





Contacts





The End

Questions?

Are you receiving NWS weather briefings?

Contact:


Steve DiRienzo

Warning coordination Meteorologist

NOAA-National Weather Service Albany, NY

stephen.dirienzo@noaa.gov

(518) 626-7542



iNWS - Interactive NWS
National Weather Service Mobile Decision Support Services (MDSS)

iNWS MOBILE ALERTING
Receive customized text message and e-mail alerts for National Weather Service products that you care about.

Welcome
InteractiveNWS (iNWS) is the home of new mobile and desktop innovations of the National Weather Service. The application suite allows NWS partners to receive National Weather Service products in new and innovative ways, such as text messaging and mobile-enabled webpages. iNWS strives to fulfill our mission of protecting life and property by using technology to reach out to our customers.

Recent News

Note: If you are receiving alerts, but never signed up for them, they may be coming from a new FEMA public system called the Wireless Emergency Alerts (WEA). More information can be found at [Wireless Emergency Alerts Consumer Guide](#).

iNWS is an experimental service intended for NWS core partners: emergency managers, community leaders, other government agencies and the electronic media.

<https://inws.ncep.noaa.gov/>

