



NATIONAL WEATHER SERVICE MISSION STATEMENT

Provide weather, water and climate data, forecasts, warnings, and impact-based decision support services for the protection of life and property and enhancement of the national economy.



Created by Ingrid Amberger
Retired Meteorologist - National Weather Service

Decision (Weather) Support Services

[Weather.gov](#) > [Albany, NY](#) > Decision (Weather) Support Services

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	1991-2020 Normals Precipitation			
1991-2020 Normals Snowfall		Fact Sheets									

[Area Forecast Discussion](#)

[Weather Support \(DSS\) Request](#)



[Severe Thunderstorm/Tornado Watch](#)



[Flood Watch-Warning-Advisory](#)



[Winter Watch-Warning-Advisory](#)



[Wind Watch-Warning-Advisory](#)



[Excessive Heat](#)



[Extreme Cold](#)



[Tropical Watch-Warning](#)



[Dense Fog Advisory](#)



[Freeze Watch-Warning Frost Advisory](#)



[Fire Weather Watch Red Flag Warning](#)



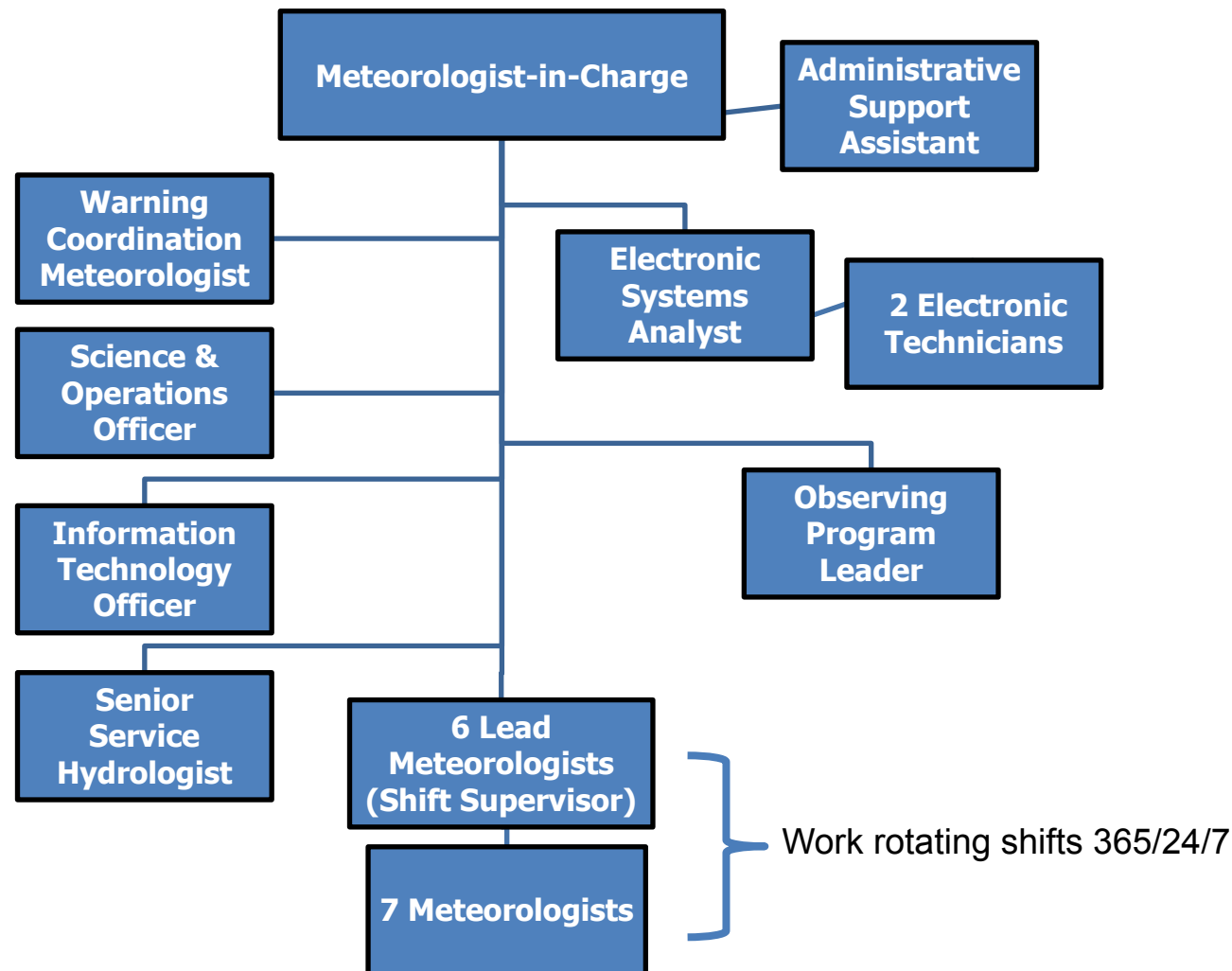
[Air Quality Alerts](#)

Maps are updated twice an hour



NATIONAL WEATHER SERVICE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION



“Watches-Warnings-Advisories” Tab



Can see the areal coverage of watches, warnings and advisories that are in effect

Winter Watches Warnings and Advisories



Graphic Created
November 26th, 2021
4:01 AM EST

Under each graphic tile there is a link to a fact sheet with the local criteria or to a National Weather Service web page for that hazard.

Weather Support Request

Albany, NY
Weather Forecast Office

Current Hazards | Current Conditions | Radar | Forecasts | Rivers and Lakes | Climate and Past Weather | Local Programs

NWS Albany, NY recognizes that we have a special mission responsibility to our core partners, including the emergency management community and other local, state and federal government agencies, to provide Impact-Based Decision Support Services/Weather Support leading up to, during and following high-impact events.

Our Decision Support Services/Weather Support begin with severe weather preparedness and education through outreach activities and internal and external training and exercises. This includes involvement in local, state and federal exercises and simulations.

When public safety in the event of hazardous weather is a concern, NWS Albany, NY personnel will provide Decision Support Services/Weather Support at the request of Emergency Management and government core partners.

This support can include:

- Direct, interactive support to ensure safety and protection of property, provided on-site or remotely.
- Coordination activities supporting high impact events. This can include pre-decision conference calls with the primary purpose of enhancing weather situational awareness.
- Assistance with the routine provision of NWS data and products including alerts of hazardous weather conditions that are provided uniformly to everyone.

To request Decision Support Services/Weather Support, please fill out the request form below.

Weather Support Request for Events - NWS Albany

**** FOR OFFICIAL GOVERNMENT SUPPORT ONLY ****

Use this form to request NWS weather support for a vulnerable outdoor event. If immediate weather support is needed, please contact the National Weather Service directly.

NWS weather support is designed for those events that as an EM you feel are particularly vulnerable to weather due to location, size or nature of the event. The NWS is committed to providing decision support services on behalf of the EM community in order to help support public safety. For more information on Decision Support, visit: <https://www.weather.gov/about/idsd>

After submitting a request for weather support, you will be contacted by your NWS office to clarify specifics of the event and services to be provided.

NWS weather support services for an event includes:

- * The NWS will contact the event POC as requested with a weather briefing.
- * The NWS will maintain a constant weather watch for the event in support of public safety.
- * If hazardous weather will impact the event, the NWS will contact the POC as requested.
- * The POC is also encouraged to contact NWS at any time for updated weather information.
- * All event information will be available to NWS forecasters for situational awareness.

The following information below is completely optional
Policy Statement: <http://www.weather.gov/privacy.cfm>

ingrid.amberger@noaa.gov [Switch account](#)

Not shared

Decision (Weather) Support Services

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	1991-2020 Normals Precipitation				
1991-2020 Normals Snowfall			Fact Sheets								

Area Forecast Discussion

Weather Support (DSS) Request



Severe Thunderstorm/Tornado Watch-Warning-Advisory



Wind Watch-Warning-Advisory



Tropical Watch-Warning



Flood Watch-Warning-Advisory



Excessive Heat



Dense Fog Advisory



Fire Weather Watch Red Flag Warning



Winter Watch-Warning-Advisory



Extreme Cold



Frost/Freeze Watch-Warning Frost Advisory



Air Quality Alerts

Maps are updated twice an hour

As emergency management or a government core partner, you can request weather support for an event by [filling out this form](#). Requests should to be submitted at least 1 to 2 weeks prior to the event.



Severe Thunderstorm Watch

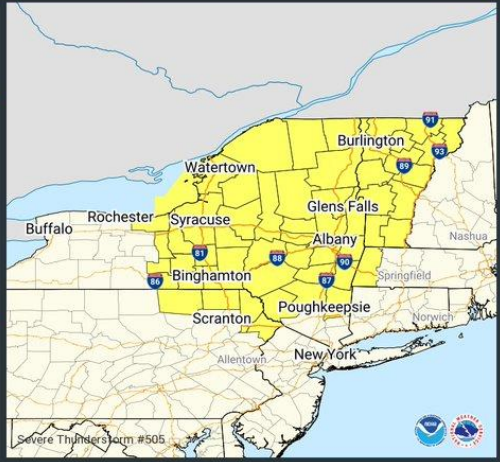
Valid Until
8:00 PM EDT Thursday
July 28, 2022

Threat Information

- TORNADOES**
A Couple Tornadoes Possible
- HAIL**
Isolated Hail Up To Quarter Size Possible
- WIND**
Scattered Gusts Up To 65 MPH Likely

Potential Exposure

Population: 4,949,200
Schools: 1730
Hospitals: 100



Severe Thunderstorm Warning

Valid Until
7:30 PM EDT Sunday
July 24, 2022

Threat Information

- WIND**
Up to 60 MPH
- HAIL**
Penny Sized Possible

Potential Exposure

Population: 542,157
Schools: 132
Hospitals: 7



Flash Flood Warning

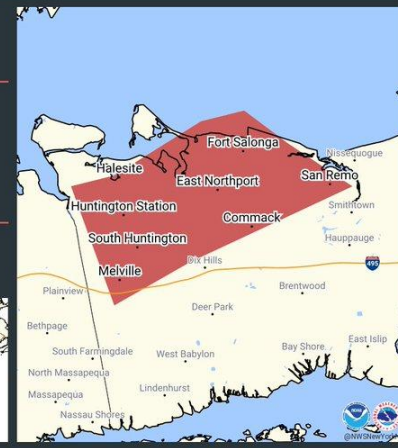
Valid Until
4:00 PM EDT Tuesday
August 23, 2022

Safety Information

- Move immediately to higher ground!
- Avoid walking or driving through flood waters!

Potential Exposure

Population: 196,682
Schools: 47
Hospitals: 1



Special Marine Warning

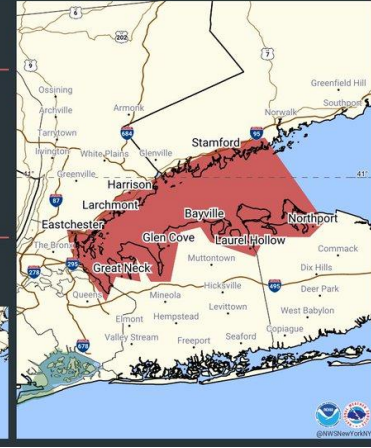
Valid Until
4:30 PM EDT Friday
August 26, 2022

Threat Information

- WIND**
Greater than 34KTS
- HAIL**
Pea Sized Possible
- WATERSPOUT**
Not expected

Safety Information

- Steep Waves**
Seek safe harbor
Take protective actions



Tornado Watch

Valid Until
11:00 PM EDT Thursday
June 16, 2022

Threat Information

- TORNADOES**
A Couple Tornadoes Possible
- HAIL**
Scattered Hail Up To Two Inch Size Possible
- WIND**
Widespread Gusts Up To 70 MPH Likely

Potential Exposure

Population: 9,203,904
Schools: 2725
Hospitals: 187



Tornado Warning

Valid Until
7:15 PM EDT Monday
August 29, 2022

Threat Information

- TORNADO**
Radar Indicated
- HAIL**
Pea Sized Possible

Potential Exposure

Population: 9,999
Schools: 5
Hospitals: 1



Special Weather Statement

Valid Until
7:30 PM EDT Wednesday
August 31, 2022

Threat Information

- WIND**
40 MPH
- HAIL**
Pea Sized Possible

Safety Information

- Seek shelter in a sturdy structure



Snow Squall Warning

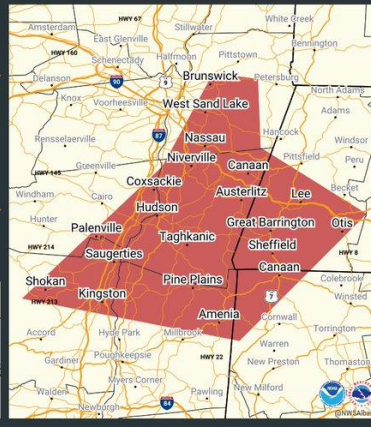
Valid Until
2:45 PM EST Saturday
February 19, 2022

Threat Information

- Hazard**
White out conditions in heavy blowing snow
- Impact**
Dangerous life-threatening travel

Potential Exposure

Population: 258,034
Highways: I-87
I-90
I-587



“Observations/Reports/Forecasts” Tab



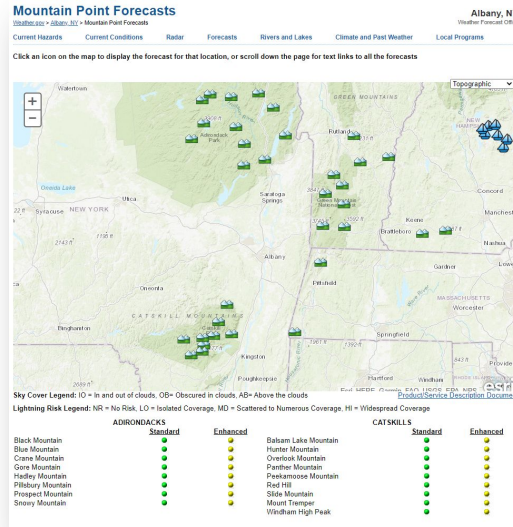
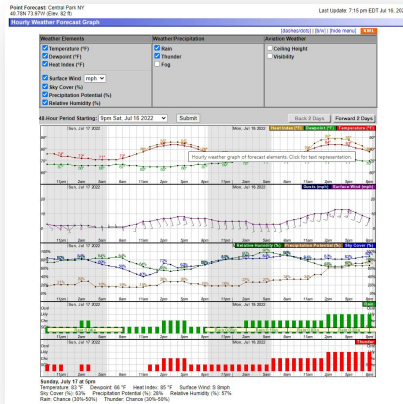
Access to current data such as radar, satellite, lightning data, weather maps, reports from on-going events and past events, snowpack information, recreational forecasts, and river and stream observations and forecasts.

Decision (Weather) Support Services

[Weather.gov](#) > [Albany, NY](#) > Decision (Weather) Support Services

Current Hazards Current Conditions Radar Forecasts Rivers and Lakes Climate and Past Weather Local Programs

[Watches-Warnings-Advisories](#)
 [Observations/Reports/Forecasts](#)
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[Winter](#)
 [Drought](#)
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 [Hazards Outlooks](#)
 [Heat](#)
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 [Wind Gusts](#)
 [1991-2020 Normals Precipitation](#)
[1991-2020 Normals Snowfall](#)
 [Fact Sheets](#)



Public Information Statement

Issued by NWS Albany, NY
[Home](#) | [Current Version](#) | [Previous Version](#) | [Text Only](#) | [Print](#) | [Product List](#) | [Glossary](#) | [On Versions: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35](#)

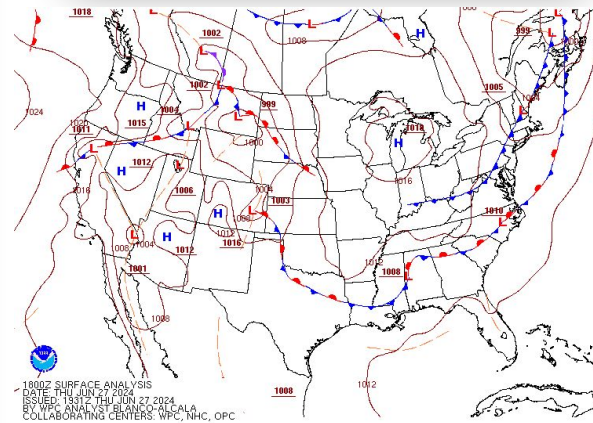
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 VT2013-015-200120-

Public Information Statement
 Spotter Reports
 National Weather Service Albany NY
 829 AM EDT Tue Mar 19 2024

The following are unofficial observations taken during the past 12 hours for the storm that has been affecting our region. Appreciation is extended to highway departments, cooperative observers, Skywarn spotters and media for these reports. This summary also is available on our home page at [weather.gov/albany](#)

*****STORM TOTAL SNOWFALL (AT LEAST 0.1 INCH)*****

LOCATION	TOTAL SNOWFALL (Inches)	TIME/DATE	COMMENTS
MASSACHUSETTS			
...Berkshire County...			
Clerksburg	2.5	726 AM 3/19	WeatherNet6
Alford	1.5	826 AM 3/19	Trained Spotter
Williamstown	1.0	630 AM 3/19	Twitter
Seyon	0.7	1150 PM 3/18	WeatherNet6
Pittsfield	0.5	757 AM 3/19	WeatherNet6
NEW YORK			
...Columbia County...			
Ancramdale	0.1	714 AM 3/19	WeatherNet6
...Hamilton County...			
2 E Hoffmeister	2.5	830 AM 3/19	Trained Spotter
Wells	0.5	886 AM 3/19	WeatherNet6
...Montgomery County...			
Palatine Bridge	0.2	725 AM 3/19	WeatherNet6
...Washington County...			
Hebron	0.5	719 AM 3/19	WeatherNet6



Weather Support Matrices



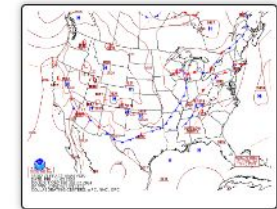
[Northeast Radar Loop](#)



[National Radar Loop](#)



[National Water Prediction Service \(Users Guide\)](#)



[Surface Map & Forecast Maps](#)

Other Radar: [Northeast](#)

[GOES Image Viewer](#): [GOES-East Northeast Sector](#)

Satellite-derived Lightning: [Day Time](#) & [Night Time](#)

Reports: [Public Information Statement](#) --- [Local Storm Reports](#) --- [mPING Spotter Reports](#)

[Past Precipitation Analysis](#) & [Locally created Precipitation & Snowfall Maps](#)

Northeast Regional Climate Center: [State & Regional Analyses of Precipitation and Snowfall](#)

Snowpack Information: [Snow Depth](#) --- [Snow Water Equivalent](#) --- [Estimated Snow Melt Past 24 hours](#)

Mountain Top Forecasts (Search and Rescue): [Eastern NY and adjacent Western New England](#)

“Observations/Reports/Forecasts” Tab



Weather Support Matrices Page

- ✓ The purpose of the page is to assist in planning for locations that host numerous events. The same weather thresholds have been applied to all locations.
- ✓ NOTE: If you have a specific event you need different thresholds for, you need more detailed information and/or weather support - you need put in a request using the [Weather Support \(DSS\) Request link](#) under the “Watches-Warnings-Advisories” Tab. Requests should be submitted at least 1 to 2 weeks prior to the event.

NWS Albany Weather Support Matrices

Weather.gov > Albany, NY > NWS Albany Weather Support Matrices

Current Hazards Current Conditions Radar Forecasts Rivers and Lakes Climate and Past Weather Local Programs

Click on map area to get weather support matrix



Areas: Eastern New York - South - Albany - Berkshires - Litchfield County

Albany, NY
Weather Forecast Office

Albany, NY
Weather Forecast Office

Decision (Weather) Support Services

Weather.gov > Albany, NY > Decision (Weather) Support Services

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 1991-2020 Normals Precipitation

1991-2020 Normals Snowfall Fact Sheets

Weather Support Matrices



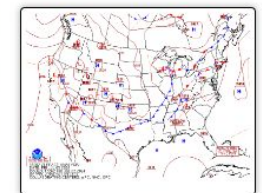
Northeast Radar Loop



National Radar Loop



National Water Prediction Service (Users Guide)



Surface Map & Forecast Maps



Eastern NY Weather Support

Choose Location Albany/Empire State Plaza Albany County/Albany Bernie Columbia County/Chatham Dutchess County/Rhinebeck Greene County/Cairo Herkimer County/Troy Lake George Village Montgomery County/Fonda Rensselaer County/Schaghticoke

Saratoga County/Ballston Spa Saratoga Springs Schoharie County/Cobleskill Troy Ulster County/New Paltz Washington County/Greenwich



Color Coded Weather Impact Matrix

Weather.gov > Albany, NY > Color Coded Weather Impact Matrix

Save as Image

Albany, New York
Weather Forecast Office

Impact Matrix for Weather Support (42.6490,-73.7616)

	Tue Mar 19 11 am	Tue Mar 19 2 pm	Tue Mar 19 5 pm	Tue Mar 19 8 pm	Tue Mar 19 11 pm	Wed Mar 20 2 am	Wed Mar 20 5 am	Wed Mar 20 8 am	Wed Mar 20 11 am	Wed Mar 20 2 pm	Wed Mar 20 5 pm	Wed Mar 20 8 pm	Wed Mar 20 11 pm	Thu Mar 21 2 am	Thu Mar 21 5 am	Thu Mar 21 8 am	Thu Mar 21 11 am	Thu Mar 21 2 pm	Thu Mar 21 5 pm	Thu Mar 21 8 pm	Thu Mar 21 11 pm	Fri Mar 22 2 am	Fri Mar 22 5 am	Fri Mar 22 8 am	Fri Mar 22 11 am	
Temperature	33°F	36°F	41°F	37°F	35°F	33°F	34°F	33°F	32°F	30°F	28°F	27°F	26°F	25°F	24°F	23°F	22°F	21°F	20°F	19°F	18°F	17°F	16°F	15°F	14°F	13°F
Wind Chill	22°F	27°F	33°F	32°F	29°F	27°F	26°F	25°F	24°F	22°F	20°F	19°F	18°F	17°F	16°F	15°F	14°F	13°F	12°F	11°F	10°F	9°F	8°F	7°F	6°F	5°F
Chance of Precipitation	11%	11%	13%	21%	32%	31%	41%	37%	28%	25%	24%	23%	22%	21%	20%	19%	18%	17%	16%	15%	14%	13%	12%	11%	10%	
3 hour Snowfall	0 in	0 in	0 in	Trace	Trace	Trace	Trace	Trace	Trace	Trace	Trace	Trace	Trace	Trace	Trace	Trace	Trace	Trace	Trace	Trace	Trace	Trace	Trace	Trace	Trace	
3 hour Freezing Rain	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	0 in	0 in	0 in	0 in	0 in	0 in	0 in	0 in	0 in	0 in	0 in	
Wind Direction	WNW	WNW	W	SSW	S	S	S	S	W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NW	WNW	
Wind Speed	18 mph	15 mph	13 mph	8 mph	7 mph	8 mph	7 mph	12 mph	15 mph	15 mph	14 mph	15 mph	17 mph	18 mph	20 mph	22 mph	23 mph	22 mph	20 mph	17 mph	15 mph	14 mph	13 mph	12 mph	11 mph	
Wind Gust	30 mph	32 mph	21 mph	13 mph	13 mph	12 mph	14 mph	15 mph	18 mph	24 mph	24 mph	24 mph	28 mph	32 mph	35 mph	36 mph	37 mph	36 mph	33 mph	28 mph	25 mph	24 mph	22 mph	21 mph	17 mph	
Sky Cover	67%	67%	76%	90%	81%	77%	86%	62%	71%	70%	67%	63%	53%	57%	54%	49%	47%	41%	39%	28%	20%	12%	16%	16%	25%	

Impact Level	None	Low	Medium	High	Extreme
Temperature	>=30°F	35 to 32°F	32 to 29°F	25 to 9°F	<=9°F
Wind Chill	>=30°F	0 to -10°F	-15 to -20°F	-25 to -30°F	<=-30°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%	

Other Radar: [Northeast](#)

[GOES Image Viewer](#): GOES-East Northeast Sector

Satellite-derived Lightning: [Day Time](#) & [Night Time](#)

Reports: [Public Information Statement](#) --- [Local Storm Reports](#) --- [mPING Spotter Reports](#)

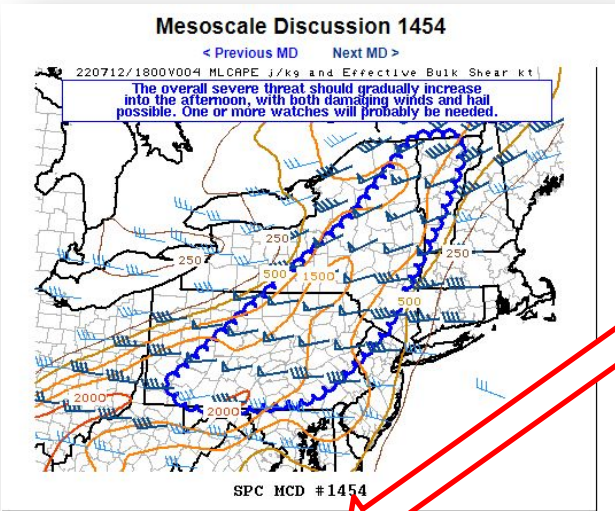
[Past Precipitation Analysis](#) & [Locally created Precipitation & Snowfall Maps](#)

Northeast Regional Climate Center: [State & Regional Analyses of Precipitation and Snowfall](#)

Snowpack Information: [Snow Depth](#) --- [Snow Water Equivalent](#) --- [Estimated Snow Melt Past 24 hours](#)

Mountain Top Forecasts (Search and Rescue): [Eastern NY and adjacent Western New England](#)

“Thunderstorms/Tornadoes” Tab



✓ **Severe Weather (Mesoscale) Discussions** targets areas of expected and/or on-going severe weather

✓ **Shows the threat for severe thunderstorms** including the specific threats for wind, hail and tornadoes and the severe outlook discussions can be accessed

Mesoscale Discussion 1454
 NWS Storm Prediction Center Norman OK
 1040 AM CDT Tue Jul 12 2022

Areas affected...Portions of northern NY/VT into PA and far northern NJ

Concerning...Severe potential...Watch possible

Valid 121540Z - 121745Z

Probability of Watch Issuance...60 percent

SUMMARY...The overall severe threat should gradually increase into the afternoon, with both damaging winds and hail possible. One or more Severe Thunderstorm Watches will probably be needed.

DISCUSSION...An upper trough evident on water vapor satellite imagery over the Great Lakes and Ontario/Quebec will continue eastward across the Northeast and Mid-Atlantic today. Rather strong mid-level flow of 45-55+ kt will accompany the upper trough, and aid in strong effective bulk shear and updraft organization. Partly to mostly sunny conditions are ongoing across much of NY/VT into PA. Continued diurnal heating will likely result in surface temperatures increasing into well into the 80s and lower 90s later this afternoon. MLCAPE around 1800-2000 J/kg should develop ahead of a poorly defined cold front. Weak convergence along/ahead of this boundary and ascent associated with the upper trough will aid robust thunderstorm development over the next couple of hours. Deep-layer shear of 45-50+ kt will support some potential for supercells with both a hail and damaging wind threat. Still, most guidance suggests that a line of convection should eventually consolidate with eastward extent into eastern NY/PA later this afternoon. If this evolution occurs, then damaging winds should become the primary severe hazard. One or more Severe Thunderstorm Watches will probably be needed from parts of northern NY/VT into PA and vicinity to address this gradually increasing severe threat.

Watches-Warnings-Advisories Observations/Reports/Forecasts **Thunderstorms/Tornadoes** Precipitation/Flooding Threat

Winter Drought Fire Weather Hazards Outlooks Heat Cold Wind Gusts 1991-2020 Normals Precipitation

1991-2020 Normals Snowfall Fact Sheets

Storm Prediction Center

Risk Categories

Severe Weather Discussion

Today's Storm Reports

Day 1 Severe Weather Outlook

Day 1 Wind Threat Outlook

Day 1 Hail Threat Outlook

Day 1 Tornado Threat Outlook

Day 2 Severe Weather Outlook

Day 2 Wind Threat Outlook

Day 2 Hail Threat Outlook

Day 2 Tornado Threat Outlook

Day 3 Severe Weather Outlook

Day 3 Probabilistic Outlook

Day 4 Severe Outlook

Day 5 Severe Outlook

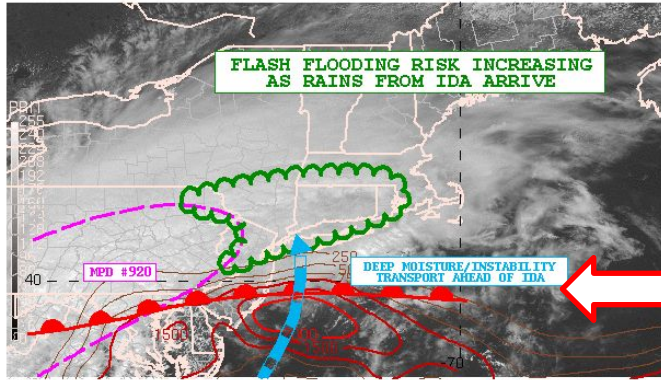
Day 6 Severe Outlook

Day 7 Severe Outlook

Day 8 Severe Outlook

Day 4-8 Severe Weather Outlook Discussion

“Precipitation/Flooding Threat” Tab



210901/1706 GOES16 CH02 VIS 0.64
RAP32 ML CAPE (lowest 90MB) /kg 21090T/1600I000
WPC MPD #0923

Mesoscale Precipitation Discussion #0923
NWS Weather Prediction Center College Park MD
113 PM EDT Wed Sep 01 2021

Areas affected...Portions of the Northern Mid-Atlantic...Southeast NY and Southern New England

Concerning...Heavy rainfall...Flash flooding likely

Valid 011712Z - 011930Z

SUMMARY...Heavy rainfall overspreading areas of far northeast PA, southeast NY, northern NJ and southern New England will increase in intensity over the next few hours, with areas of flash flooding becoming increasingly likely with time.

DISCUSSION...The latest satellite and radar imagery indicates an expansive area of steady moderate to heavy rain along with some embedded stronger convective elements impacting areas of far northeast PA, northern NJ, southeast NY and southern New England. All of this activity is associated with what is now Post-T.C. Ida.

Very strong frontogenetical forcing and moisture transport is lifting up across these areas, and with time there will be a notable increase in the pooling of diurnally aided instability along a warm front over the central Mid-Atlantic region that will be advancing northeast toward southern New England going through the afternoon hours. This will be aided largely by a strengthening south-southwest low-level jet ahead of Ida's extratropical low center.

Over the next few hours, there will an increase in the rainfall intensity and coverage, and the expectation is that there will be more numerous pockets of locally concentrated convection with very heavy rainfall rates.

Expect some hourly rainfall rates to begin to approach 2 inches/hour locally, and given the locally heavy rain that has occurred over the last few hours, some areas of flash flooding will be gradually likely heading toward the mid to late-afternoon hours.

✓ **Precipitation Forecast** maps are updated every time NWS Albany updates their forecast.

✓ **Excessive Rainfall Outlook** shows the probability that the forecasted rainfall will exceed flash flood guidance. If exceeded flooding would be expected to occur.

✓ **Heavy Rainfall Discussions** targets areas of expected and/or on-going flash flooding.

✓ **River Forecasts** routinely updated each day late morning and as needed when flooding is expected and/or occurring.

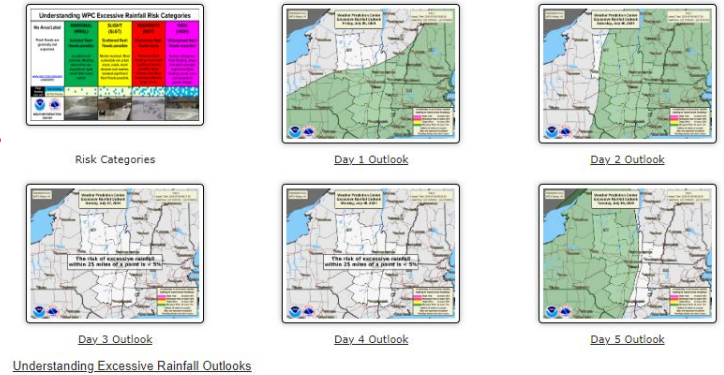
✓ **Significant River Flood Outlook** This is not intended to depict all areas of minor flooding or small-scale events such as localized flooding and/or flash flooding.

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

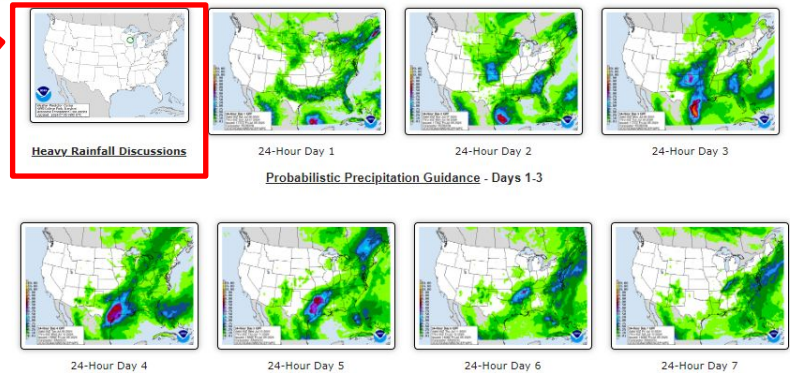
Precipitation Forecasts - New York State



Excessive Rainfall Outlooks - Weather Prediction Center



Precipitation Forecasts - Weather Prediction Center



- ✓ **Expected Snowfall - Official Forecast**
This snowfall amount is determined by NWS forecasters to be the most likely outcome based on evaluation of data from computer models, satellite, radar, and other observations.
- ✓ **High End Snowfall Amount**
Depicts a reasonable upper-end or maximum snowfall amount for the time period shown on the graphic. This higher amount is an unlikely scenario, with only a 1 in 10 chance that more snow will fall, and a 9 in 10 chance that less snow will fall. This number can help serve as an upper-end or reasonable maximum scenario for planning purposes.
- ✓ **Low End Snowfall Amount**
Depicts a reasonable lower-end or minimum snowfall amount for the time period shown on the graphic. This lower amount is an unlikely scenario with a 9 in 10 chance that more snow will fall, and only a 1 in 10 chance that less snow will fall. This number can help serve as a lower-end or reasonable minimum scenario for planning purposes.
- ✓ **NOTE:** The greater the difference between the “High End” and “Low End” amounts, the greater uncertainty there is in the snowfall forecast.
- ✓ **Day 1, Day 2 and Day 3 snowfall extremes by county**

Go to our **Winter Weather Forecasts** page to get more probabilistic snowfall products: [weather.gov/aly/winter](https://www.weather.gov/aly/winter)

Decision (Weather) Support Services

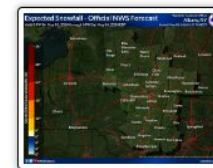
Albany, NY
Weather Forecast Office

[Weather.gov](#) > [Albany, NY](#) > Decision (Weather) Support Services

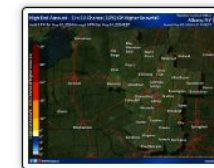
[Current Hazards](#) [Current Conditions](#) [Radar](#) [Forecasts](#) [Rivers and Lakes](#) [Climate and Past Weather](#) [Local Programs](#)

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

Snowfall Forecast & Probabilistic Graphics / Ice Accumulation Forecast



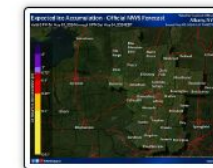
Expected Snowfall Official Forecast



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](#)

[Day 1, Day 2 & Day 3 Snow Extremes by County](#)

U.S. Drought Monitor

- Released every Thursday
- Shows the parts of the United States that are in drought
- Uses five classifications: abnormally dry (D0), showing areas that may be going into or are coming out of drought, and four levels of drought: moderate (D1), severe (D2), extreme (D3) and exceptional (D4).
- The Monthly and seasonal outlooks are issued monthly

Northeast Drought Early Warning System (DEWS) Dashboard

- A drought early warning system (DEWS) utilizes new and existing networks of federal, tribal, state, local, and academic partners to make climate and drought science accessible and useful for decision makers and stakeholders.
- DEWS: A Regional Approach**
Drought and its impacts vary from region to region. Developing and implementing regional DEWS allows for responsiveness to particular geographic and hydrologic circumstances, as well as value-added information needs specific to stakeholders in the respective areas.

The Importance of Drought Early Warning Systems (DEWS)

Allows for early drought detection

Allows for proactive (mitigation) and reactive (emergency) responses

“Triggers” actions within a drought plan

Provides information for decision support

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Watches-Warnings-Advisories Observations/Reports/Forecasts Thunderstorms/Tornadoes Precipitation/Flooding Threat

Winter **Drought** Fire Weather Hazards Outlooks Heat Cold Wind Gusts 1991-2020 Normals Precipitation

1991-2020 Normals Snowfall Fact Sheets

National Integrated Drought Information System (NIDIS) - Drought.gov: [NY](#) --- [CT](#) --- [MA](#) --- [VT](#)

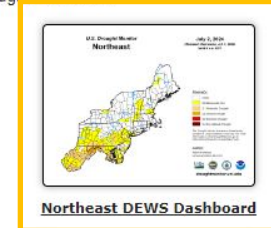
[Current Conditions](#) - [Outlooks & Forecasts](#) - [Historical Conditions](#) - [Drought Resources](#)



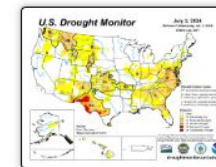
Current Drought Conditions



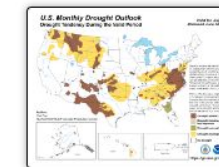
Drought Class Change



Northeast DEWS Dashboard



U.S. Drought Monitor



Monthly Drought Outlook



Seasonal Drought Outlook

[What is the U.S. Drought Monitor?](#)

[What is Drought?](#)

“Fire Weather” Tab



- ✓ **Spot Forecasts** are issued by NWS forecast offices in support of wildfire management, and natural resource management. These forecasts aid the land management and fire control agencies in protecting life and property during wildland fires, hazardous fuels reduction, and rehabilitation and restoration of natural resources. Spot forecasts are also issued for hazardous materials incidents and other threats to public safety.
- ✓ **Fire Weather Watches and Red Flag Warnings** are issued by NWS forecast offices. These are issued when the combination of dry fuels and weather conditions support extreme fire danger and/or fire behavior. These conditions alert land management agencies to the potential for widespread new ignitions or control problems with existing fires, both of which could pose a threat to life and property.
- ✓ **Fire Weather Outlooks** are issued by the Storm Prediction Center. The outlooks are intended to delineate areas where pre-existing fuel conditions, combined with forecast weather conditions during the next 7 days, will result in a significant threat for the ignition and/or spread of wildfires. It's designed for use in the NWS, as well as other federal, state, and local government agencies.
- ✓ **Minimum Relative Humidity (Min RH) Forecasts and Maximum Wind Gust (Max Gust) Forecasts Days 1-7** are updated every time NWS Albany updates their forecast.

Watches-Warnings-Advisories		Observations/Reports/Forecasts		Thunderstorms/Tornadoes		Precipitation/Flooding Threat	
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1991-2020 Normals Snowfall		Fact Sheets					

National Weather Service
Spot Forecast Request Page



For more detailed
fire weather
information visit:
NWS Albany
Fire Weather Page

Fire Weather Watch
Red Flag Warning



Day 1 - Min RH Forecast



Day 1 - Max Gust Forecast



Day 1 Fire Weather Outlook



Day 2 - Min RH Forecast



Day 2 - Max Gust Forecast



Day 2 Fire Weather Outlook



Day 3 - Min RH Forecast



Day 3 - Max Gust Forecast



Day 3 Fire Weather Outlook



Min RH Forecast - Day 4



Max Gust Forecast - Day 4



SPC Fire Weather Outlook - Day 4



Min RH Forecast - Day 5



Max Gust Forecast - Day 5



SPC Fire Weather Outlook - Day 5

✓ **National 7-Day Significant Potential** The goal of this guidance is to help the regional and national resource manager make effective and efficient use of available resources. “Significant Fire Potential” is defined as “the likelihood that a wildland fire event will require mobilization of additional resources from outside the area in which the fire situation originates”. It is crucial to understand that although weather is a major contributor to Significant Fire Potential, this product is not a weather forecast. It is a forecast of Significant Fire Potential only, which is a function of fuel conditions, weather, and resource availability. It assesses the daily probability for occurrence of a new large fire and/or the daily potential for significant new growth on existing fires.

✓ **National Significant Wildland Fire Potential Outlooks** are issued by Predictive Services National Interagency Fire Center. The significant wildland fire potential forecasts represent the cumulative forecasts of the ten Geographic Area Predictive Services units and the National Predictive Services unit. The outlook identifies areas by month for the next four months with above, below, and near normal significant fire potential. The main objectives of these outlooks are to improve information available to fire management decision makers. These assessments are designed to inform decision makers for proactive wildland fire management, thus better protecting lives and property, reducing firefighting costs and improving firefighting efficiency. They are updated on the first of each month or first work day of each month.



Min RH Forecast - Day 6



Max Gust Forecast - Day 6



SPC Fire Weather Outlook - Day 6



Min RH Forecast - Day 7



Max Gust Forecast - Day 7



SPC Fire Weather Outlook - Day 7

Understanding the Storm Prediction Center Fire Weather Outlooks

National 7-Day Significant Fire Potential



Day 1 Significant Fire Potential



Day 2 Significant Fire Potential



Day 3 Significant Fire Potential



Day 4 Significant Fire Potential



Day 5 Significant Fire Potential



Day 6 Significant Fire Potential



Day 7 Significant Fire Potential

These products are updated each weekday, usually by mid-afternoon Mountain time.

Explanation of the 7-Day Significant Fire Potential

National Significant Wildlife Fire Potential Outlooks



Current Month Outlook



Next Month Outlook



Month 3 Outlook



Month 4 Outlook

“Hazards Outlooks” Tab



3-7 Day and 8-14 Day Hazards Outlooks

- ❑ The hazard areas are based off of products issued from the Weather Prediction Center (WPC), the Storm Prediction Center (SPC), the Climate Prediction Center (CPC), along with medium range numerical model guidance.
- ❑ The graphic and discussion are issued once per day and are available by 3:30pm EST/4:30pm EDT Monday through Friday only so please note that the information over the weekend may be out of date.
- ❑ The intended audience for this product includes emergency managers, weather forecasters, planners and managers in the public and private sectors, as well as the general public.

Temperature and Precipitation Outlooks

- ❑ Issued by the Climate Prediction Center
- ❑ 6-10 Day and 8-14 Days outlooks are issued daily between 3-4 pm
- ❑ Week 3-4 Outlooks are issued on Fridays between 3-4 pm
- ❑ Monthly Outlooks are issued mid-month and are updated at the end of the month.

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

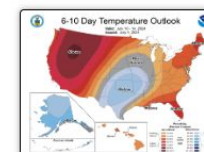
Experimental Graphical Hazardous Weather Outlook



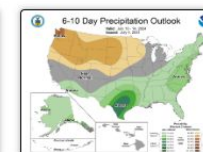
3-7 Day Hazards Outlook
Note: Only produced Monday-Friday



8-14 Day Hazards Outlook
Note: Only produced Monday-Friday



6-10 Day Temperature Outlook
(Interactive Map)



6-10 Day Precipitation Outlook
(Interactive Map)



8-14 Day Temperature Outlook
(Interactive Map)



8-14 Day Precipitation Outlook
(Interactive Map)



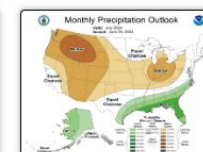
Week 3-4 Temperature Outlook



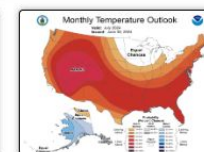
Week 3-4 Precipitation Outlook



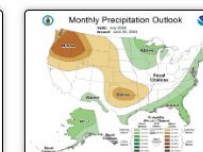
Monthly Temperature Outlook



Monthly Precipitation Outlook



Updated Temperature Outlook



Updated Precipitation Outlook

Temperature and Precipitation Outlooks: Calculating Category Probabilities

Highs, Heat Index and WBGT graphics are updated every time NWS Albany updates their forecast

- **Heat Index** is measure of human discomfort due to combined heat and humidity.
- It measures the increased physiological heat stress and discomfort associated with higher than comfortable humidities.
- It does not consider the effects of air movement (wind speed) or exposure to sunshine on the degree of discomfort or stress.

- **Wet Bulb Globe Temperature (WBGT)** is a measure of the heat stress in direct sunlight, which takes into account: temperature, humidity, wind speed, sun angle and cloud cover (solar radiation).

Comparing WBGT and Heat Index

	WBGT	HEAT INDEX
Measured in the sun	●	●
Measured in the shade	●	●
Uses temperature	●	●
Uses relative humidity	●	●
Uses wind	●	●
Uses cloud cover	●	●
Uses sun angle	●	●

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

NWS HeatRisk - Understanding NWS HeatRisk

Heat Index --- Wet Bulb Globe Temperature

NWS Heat Tool Reference Guide



➔ **NWS HeatRisk** serves as another NWS tool that can be used to protect lives and property from the potential risks of excessive heat, being especially useful for those who are more easily affected by heat or those who provide support to those communities of heat-vulnerable individuals.

Lows and Wind Chill graphics are updated every time NWS Albany updates their forecast

- The wind chill is the effect of the wind on people and animals.
- The wind chill temperature is based on the rate of heat loss from exposed skin caused by wind and cold and is to give you an approximation of how cold the air feels on your body.
- As the wind increases, it removes heat from the body, driving down skin temperature and eventually the internal body temperature. Therefore, the wind makes it FEEL much colder.





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

These graphics are updated every time NWS Albany updates their forecast

They show the maximum forecast wind gust for the time period



Today



Tonight



Tomorrow



Tomorrow Night



Day 3



Day 4



Day 5



Day 6



Day 7

“1991-2020 Normals Precipitation” Tab



Decision (Weather) Support Services

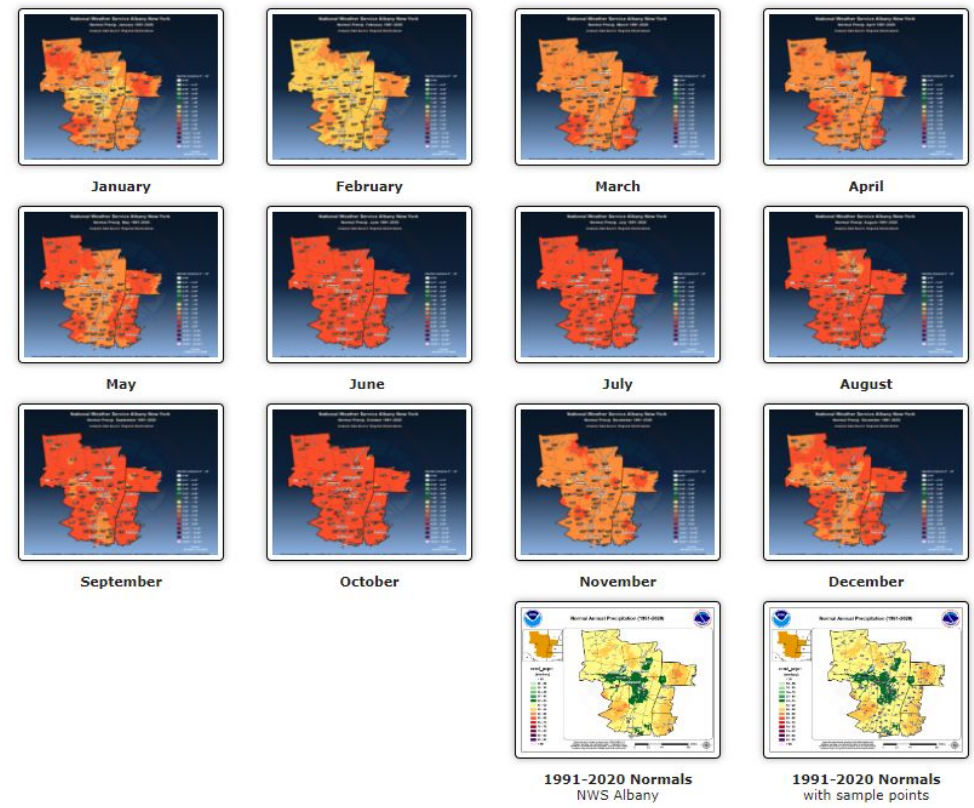
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1991-2020 Normals Snowfall		Fact Sheets					

These maps show the 1991-2020 Normal Precipitation across NWS Albany’s area of responsibility



“1991-2020 Normals Snowfall” Tab



Decision (Weather) Support Services

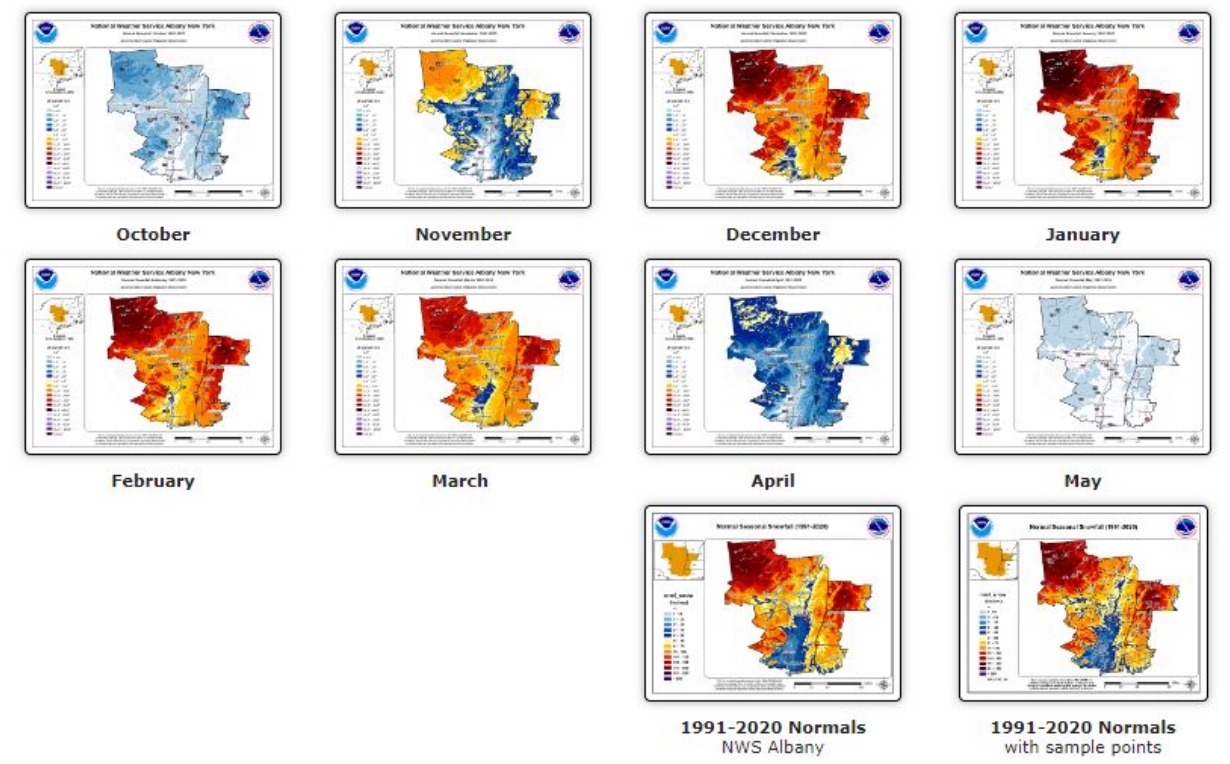
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1991-2020 Normals Snowfall			Fact Sheets						

These maps show the 1991-2020 Normal Snowfall across NWS Albany's area of responsibility





This tab provides links to fact sheets which include local criteria and to descriptions/explanations of NWS outlooks and products as well as to NWS social media infographics

Warning Type	Tag Selection Notes	Wireless Emergency Alert?
Tornado with no tag		Yes
Tornado with Considerable tag	Should only be selected when reports and/or radar signatures give high confidence for the presence of a possibly strong or violent tornado occurring in a supportive environment	Yes
Tornado with Catastrophic tag	Tornado is 100% confirmed AND destructive tornadic/catastrophic potential **Use of Tornado Emergency Should Be A Consensus Team Decision**	Yes (Emergency Language)
Severe Thunderstorm with no tag	Wind ≥ 58 MPH and/or hail ≥ 1.00" (US quarter)	No
Severe Thunderstorm with Considerable tag	Wind ≥ 70 MPH and/or hail ≥ 1.75" (golf ball)	No
Severe Thunderstorm with Destructive tag	Wind ≥ 80 MPH and/or hail ≥ 2.75" (baseball)	Yes
Flash Flood with no tag		No
Flash Flood with Considerable tag	Use rarely when there are indications flash flooding capable of unusual severity or impact is imminent or ongoing and urgent action is needed to protect lives and property.	Yes
Flash Flood with Catastrophic tag	Exceedingly rare, violent flash floods which threaten lives and cause disastrous damage when floodwaters are placing or will place people in life-threatening situations by rapidly rising to levels rarely, if ever, seen. **Use of Flash Flood Emergency Should Be A Consensus Team Decision**	Yes (Emergency Language)
Snow Squall Warning with no tag	To be used frequently for snow squall conditions, but mitigating actions, combined with societal context, will reduce the threat to safe travel.	No
Snow Squall Warning with Significant tag	Used only when snow squalls pose a substantial threat to safe travel.	Yes

National Weather Service Definitions for New York State

FLOODING

FLOOD ADVISORY /BE AWARE/ - issued when flooding is not expected to be bad enough to issue a warning. However, it may cause significant inconvenience, and if caution is not exercised, it could lead to situations that may threaten life and/or property.

FLOOD WATCH /BE PREPARED/ - issued when conditions are favorable for flooding. It does not mean flooding will occur, but it is possible.

FLOOD WARNING /TAKE ACTION/ - issued when flooding is imminent or already happening.

FLASH FLOOD WARNING /TAKE ACTION/ - issued when flooding is imminent or occurring. A flash flood is a sudden violent flood that can take from minutes to hours to develop. It is even possible to experience a flash flood in areas not immediately receiving rain.

MINOR FLOODING - minimal or no property damage, but possibly some public threat or inconvenience.

MODERATE FLOODING - some inundation of structures and roads near streams/rivers; some evacuations of people and/or transfer of property to higher ground elevations necessary.

MAJOR FLOODING - extensive inundation of structures and roads; significant evacuations of people and/or transfer of property to higher elevations.

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Winter | Drought | Fire Weather | Hazards Outlooks | Heat | Cold | Wind Gusts | 1991-2020 Normals Snowfall | 1991-2020 Normals Precipitation

1991-2020 Normals Snowfall | **Fact Sheets**

[Decision \(Weather\) Support Services Page](#) - overview of page contents
NWS Social Media Infographics: [Winter](#), [Spring](#), [Summer](#), [Fall](#), and [Hurricane](#) (Spanish-language)

- Drought:**
- [What is Drought?](#)
 - [U.S Drought Monitor](#)
 - [U.S. Drought Monitor Tutorial](#)

- Fire Weather:**
- [Upgraded Spot Forecast Request Webpage](#) - Information for Partners
 - [Fire Weather Outlooks](#) - Storm Prediction Center

- Flooding-Rainfall:**
- [Excessive Rainfall Outlooks](#) - What does it mean?
 - [Flooding](#) - Definitions
 - [Understanding: Flooding](#)

- Temperatures:**
- [Extreme Heat](#) - Thresholds/Criteria
 - [NWS HeatRisk](#) - one-pager
 - [Understanding NWS HeatRisk](#)
 - [Wet-Bulb Globe Temperature](#)
 - [NWS Heat Tool Reference Guide](#)
 - [Extreme Cold](#) - Thresholds/Criteria
 - [Frost-Freeze Program](#)

- Thunderstorms:**
- [Severe Thunderstorms & Tornadoes](#) - Definitions
 - [Severe Weather Outlook Risk Categories](#) - Storm Prediction Center
 - [Severe Storm Timing Guidance](#) - Time Series Graphic
 - [Understanding: Thunderstorms](#)

- Winter:**
- [Winter](#) - Thresholds/Criteria
 - [Probabilistic Snowfall](#)
 - [Winter Weather Severity Index](#)
 - [Probabilistic Winter Storm Severity Index](#)
 - [Snow Squall Warnings](#)
 - [Understanding: Winter Weather](#)
 - [Winter Storm Outlook](#) - Experimental
 - [Ice: Radial vs. Flat](#)

- Other:**
- [Dense Fog](#)
 - [Wind](#) - Thresholds/Criteria
 - [Temperature and Precipitation Outlooks: Calculating Category Probabilities](#)
 - [What Does Probability of Precipitation Mean?](#)
 - [NWSChat 2.0](#) - SLACK
 - [Wireless Emergency Alerts & Impact-Based Warnings](#)
Tornado, Severe Thunderstorm, Flash Flood, Snow Squalls, and Storm Surge

Weather-Ready Nation

National Oceanic and Atmospheric Administration

National Weather Service Chat (NWSChat 2.0)

What is NWSChat 2.0?

NWSChat 2.0 brings you virtually into National Weather Service (NWS) operations powered by Slack, as a real-time instant messaging program. This allows your local NWS office to communicate weather and flood information with key partners during incidents. It's an important situational awareness tool, leveraged by all members of the Integrated Warning Team: emergency management, news media and the NWS.

Who can use NWSChat 2.0?

- Members of the **emergency management community** including public safety officials from federal, state, tribal or local governments.
- Safety and emergency personnel from **universities or other large-population entities**.
- Members of the **news media** can relay weather information such as flood watches, advisories, and warnings to a significant part of the population served by an NWS office.
- Government partners** of a NWS office including (but not limited to) the FAA, DHS, USGS, military and water and land management officials.

Why use NWSChat 2.0?

- NWSChat allows you to **ask questions and seek clarification** from the meteorologists who make decisions on watches, warnings, and advisories.
- Pictures and videos can be **uploaded and shared in real-time** with NWS forecasters.
- NWS products and storm reports can be displayed to **maintain situational awareness**.
- Information shared can be shared across the Integrated Warning Team and used by emergency managers to **better communicate hazards to their communities**.

Government | Emergency Management | Broadcast Media | Academia

ETEC - 1400 Washington Ave Albany, NY, 12222 | P: 518 626 7673 | alb.stormreport@noaa.gov

Excessive Rainfall Outlook – What does it mean?

Characterizing High Risk Days

Based on records over the past 11 years, we can say:

WPC High Risks are a strong indicator of a potentially deadly and damaging flash flood day

46% have at least 1 fatality or injury
Compared to 23% for Moderate Risk Days

62% have at least \$1 million in damages
Compared to 33% for Moderate Risk Days

WEATHER PREDICTION CENTER
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

ERO High Risk Statistics, Version 3
Updated February 12, 2022

New York State has only had 3 high risk days since 2016, so be prepared to act when you see "High Risk"