

2020 Spring Fire Weather Webinar

National Weather Service, Albany, NY

Dan Thompson, Fire Weather Program Leader

Steve DiRienzo, Warning Coordination Meteorologist





Outline

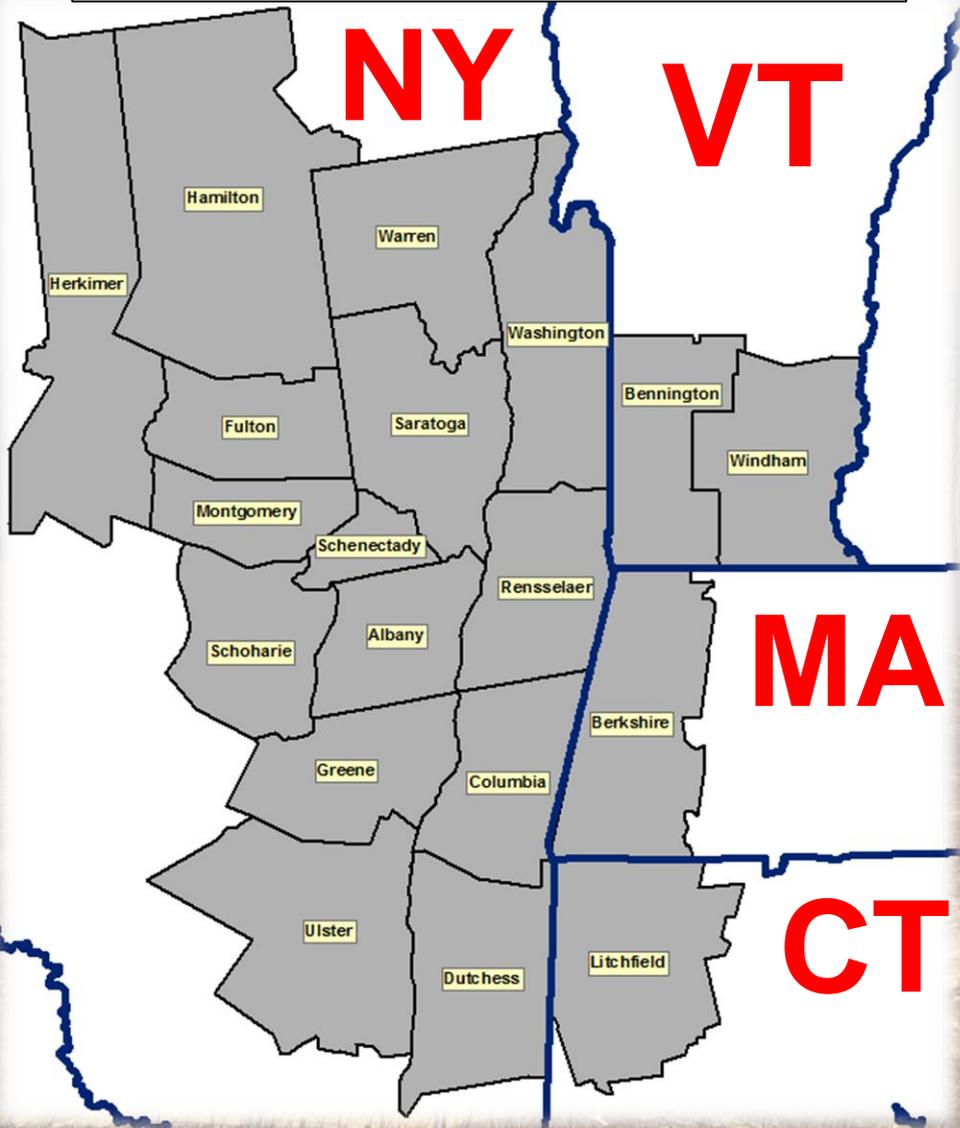


1. Introductions
2. Fire Weather Coordination
3. NWS Albany Fire Weather Products
4. NWS Albany Fire Weather Webpage
5. Spot Forecast Webpage
6. 2019 Fire Weather Season Review
7. 2020 Spring Outlook
8. Miscellaneous Items
9. Open Forum



Fire Weather Coordination

NWS Albany County Warning Area



- NWS Albany is the New York State Liaison office – we coordinate non-routine fire weather products for eastern New York with Captain Adam Pickett (NYSDEC)
- NWS Burlington coordinates with Vermont
- NWS Norton, MA and Upton, NY coordinate with Massachusetts and Connecticut



NWS Albany Fire Weather Products



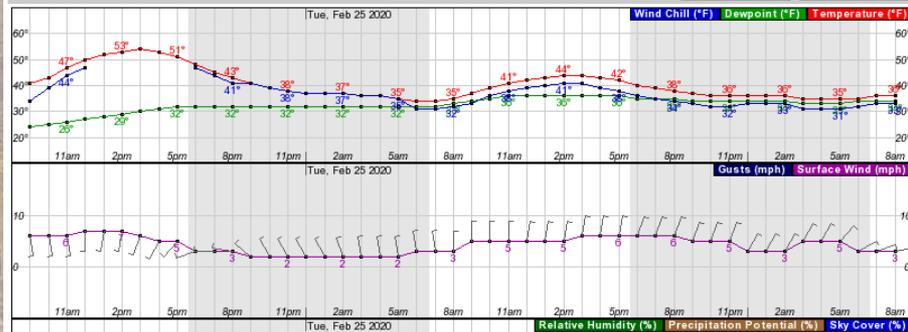
Fire Weather Products

Routine Products

- **Gridded Fire Weather Forecast**
 - Graphical forecast of fire weather elements
 - Updated daily around 4 am/pm (or more frequently if necessary)

Weather Elements	Fire Weather	Aviation Weather
<input checked="" type="checkbox"/> Temperature (°F) <input checked="" type="checkbox"/> Dewpoint (°F) <input checked="" type="checkbox"/> Wind Chill (°F)	<input checked="" type="checkbox"/> Mixing Height <input type="text" value="x100ft"/> <input checked="" type="checkbox"/> Haines Index <input checked="" type="checkbox"/> Lightning Activity Level <input checked="" type="checkbox"/> Trans. Wind <input type="text" value="mph"/> <input checked="" type="checkbox"/> 20ft Wind <input type="text" value="mph"/> <input checked="" type="checkbox"/> Vent Rate (x1000 mph-ft) <input checked="" type="checkbox"/> Dispersion Index	<input type="checkbox"/> Ceiling Height <input type="checkbox"/> Visibility <input type="checkbox"/> Thunder Potential
<input checked="" type="checkbox"/> Surface Wind <input type="text" value="mph"/> <input checked="" type="checkbox"/> Sky Cover (%) <input checked="" type="checkbox"/> Precipitation Potential (%) <input checked="" type="checkbox"/> Relative Humidity (%)		
<input checked="" type="checkbox"/> Rain <input checked="" type="checkbox"/> Thunder <input checked="" type="checkbox"/> Snow <input checked="" type="checkbox"/> Freezing Rain <input checked="" type="checkbox"/> Sleet <input type="checkbox"/> Fog		

48-Hour Period Starting:



Graphical Forecasts - Albany, NY

Public Fire Weather

Daily View | Weekly View | Loops

Image List | Page Help | Metric Units | Key

Go to Region | View Images | Get Text Forecast

Mouse over the table below to change the forecast image.

Today	[-12hrs +12hrs]	
Max/Min Temperature	High	
Lightning Activity Level	7am	10am 1pm 4pm
Mixing Height	7am	10am 1pm 4pm
Transport Winds	7am	10am 1pm 4pm
Haines Index	7am	10am 1pm 4pm
Max/Min Relative Humidity	RH	
Relative Humidity	7am	10am 1pm 4pm
Wind Gusts	7am	10am 1pm 4pm
20ft Winds	20' Wind	20' Wind
Ventilation Rate	Ventilation Rate	
Dispersion	Dispersion	
Probability of Precip.	12 hr. probability	
Amount of Precip.	QPF	QPF
Dewpoint Temp	7am	10am 1pm 4pm
Weather	7am	10am 1pm 4pm
Sky Cover	7am	10am 1pm 4pm

Map showing temperature distribution across the Albany, NY region. Color scale: -10 to 70°F.

High Temperature(F) Ending Fri Feb 28 2014 8PM EST
(Sat Mar 01 2014 01Z)
NWS Albany, NY
Graphic Created Feb 28 6:37AM EST

Fire Weather Products

Routine Products

- **FWF – Fire Weather Planning Forecast**

- Brief fire weather discussion, followed by tabular forecast for the next ~48 hours and extended forecast
- Zone-averaged forecast
- Issued daily around 4 am/pm Mar–Nov, updated more frequently if necessary

NYZ032-270915-

Northern Herkimer-

Including the cities of Big Moose, Eagle Bay, McKeever, Old Forge, Atwell, Nobleboro, and Northwood

537 PM EDT Thu Apr 26 2018

	Tonight	Fri	Fri Night	Sat
CLOUD COVER	PCldy	MClDY	MClDY	MClDY
PRECIP TYPE	Showers	Rain	Showers	Showers
CHANCE PRECIP (%)	40	40	40	60
TEMP (24H TREND)	33 (-7)	54 (+8)	38	53
RH % (24H TREND)	94 (-4)	52 (-19)	100	61
20FTWIND-AM(MPH)		S 6		SW 6
20FTWIND-PM(MPH)	W 10 G18	S 9	SE 7	SW 9
PRECIP AMOUNT	0.01	0.06	0.06	0.11
PRECIP DURATION	1	1	4	6
PRECIP BEGIN	6 PM	10 AM	Continuing	Continuing
PRECIP END	8 PM	Continuing	Continuing	Continuing
MIXING HGT(FT-AGL)		5800		6200
TRANSPORT WND (MPH)		S 16		SW 15
VENT RATE (KT-FT)		81200		80600
DISPERSION		5		5
LAL	1	1	1	1
HAINES INDEX	2	3	2	2

REMARKS...None.





Fire Weather Products

Routine Products

- **FWM – National Fire Danger Rating System (NFDRS) Forecast**
 - Coded point forecasts valid 1300 LT the following day
 - Issued daily around 3–4 pm Mar–Nov
 - Issued for six NFDRS sites in eastern NY and southern VT:
 - Albany Pine Bush, NY (300011)
 - Belleayre Mountain, NY (301111)
 - Lake Pleasant, NY (300411)
 - Stony Kill, NY (305103)
 - Saratoga Battlefield, NY (301901)
 - Woodford, VT (431303)
 - ***NEW THIS YEAR:*** Experimental 7-day FWM run 2 Mar through 31 May



Fire Weather Products

Non-Routine Products: Red Flag Program

- **Fire Weather Watches** and **Red Flag Warnings** are issued when the combination of dry fuels and weather conditions support extreme fire danger and/or fire behavior

Red Flag Criteria

Criteria	Pre Green-Up	Green-Up
Rainfall	< 1/4 inch for at least 5 days	< 1/4 inch for at least 8 days
RH	< 30% for two or more consecutive hours	< 30% for two or more consecutive hours
Wind	sustained and/or gusts at least 25mph or greater for two or more consecutive hours	sustained and/or gusts at least 25mph for greater or two or more consecutive hours
Max Temperature	must be at least 50F for two or more consecutive hours	must be at least 50F for two or more consecutive hours
Fuel	Dry fine surface fuels	Keetch Byram Drought Index of 300 or greater



Fire Weather Products



Non-Routine Products: Red Flag Program

- **Fire Weather Watch:** Issued 12–96 hours in advance of the expected onset of Red Flag conditions when confidence is 50% or greater
 - Issued per coordination with state fire weather contacts
- **Red Flag Warning:** Issued typically within 24 hours of Red Flag conditions when confidence is 80% or greater
 - Issued per coordination with state fire weather contacts
- **Special Weather Statement:** Issued when conditions support enhanced fire weather behavior, but at levels below Red Flag criteria
 - Issued per coordination with state fire weather contacts
 - Issued when temperatures are below 50°F but other Red Flag criteria are expected to be met
 - Also can be issued to raise elevated fire weather awareness for the fire weather community and/or general public



Fire Weather Products



Non-Routine Products: Spot Forecast

- Detailed forecasts of local conditions in support of wildfire suppression and natural resource management (e.g., prescribed burns)
- Typically issued with a ~20 minute turnaround time from the request
- Requests can be made via weather.gov/spot

The screenshot shows the National Weather Service website for Spot Forecast Requests. At the top, there is a blue header with the NOAA logo and the text "National Weather Service" and "Spot Forecast Request". Below the header is a navigation bar with links for "Home", "NWS Home", "News", and "Organization". The main content area has a yellow background and is titled "Spot Forecast Request". A red "NOTICE" box contains text stating that the interface is for internal agency use and that submissions are voluntary. Below this is a section titled "Incident and Decision Support Forecast Request" with a blue background and text explaining the site's purpose. A link is provided to provide "Spot Webpage Testing Feedback". At the bottom, there are two blue buttons: "Submit Spot Request" and "Monitor Spot Forecasts". The "Submit Spot Request" button is linked to an "Interactive Request" section, which describes requesting a spot forecast using an interactive map. The "Monitor Spot Forecasts" button is linked to a "Monitor" section, which describes using the site to monitor existing spot requests and forecasts. At the very bottom, there is a footer with a link to an online survey and a link to download the Product Description Document (PDD).

National Weather Service
Spot Forecast Request

Home NWS Home News Organization

Spot Forecast Request

NOTICE - This interface is intended to be used solely for the relay of forecast information to the National Weather Service. Submissions sent through this online form are intended for internal agency use. We are required (by e-Gov Act of 2002) to explicitly state that submission of any information is voluntary. For further information please read our [Privacy Policy](#) and [Disclaimer](#). False statements on this form may be subject to prosecution under the False Statement Accountability Act of 1996 (18 U.S.C. § 1001) or other statutes.

Incident and Decision Support Forecast Request

This site is the National Weather Service interface to requesting, filling, and monitoring spot forecasts issued by our Forecast Offices and National Centers.

[Click here to provide 'Spot Webpage Testing Feedback'](#)

Submit Spot Request
Interactive Request:
Request a spot forecast using an interactive map, with or without a Lat/Lon of the incident.

Monitor Spot Forecasts
Monitor:
Use this to monitor existing spot requests and forecasts.

Please take the online survey to let us know what you think of this interface.
[Download the Product Description Document \(PDD\)](#)



NWS Albany Fire Weather Webpage





NWS Albany Fire Weather Webpage

weather.gov/albany/EMfire

Spot Fire Weather Forecast Request

Red Flag Criteria

Vegetation Stage I or II cured/transition - Spring/Fall

Vegetation Stage III green - Summer

RH	less than 30%	less than 30%
<u>Rainfall</u>	less than 1/4 inch in previous 5 days	less than 1/4 inch in previous 8 days
Wind	sustained or frequent gusts above 25 mph	sustained or frequent gusts above 25 mph
Fuel	N/A	<u>Keetch-Byram Drought Index</u> above 300
Temperature	greater than 50 degrees F	greater than 50 degrees F

Fire Weather Watch is issued up to 96 hours in advance of expected onset of red flag criteria

Red Flag Warning is issued when red flag criteria will occur in 48 to hours or less

Special Weather Statement is issued when Red Flag criteria are met, however temperatures are below 50F, or to raise elevated fire awareness

Local Products & Resources

- [Fire Weather Watch / Red Flag Warning](#)
- [Routine Fire Weather Forecast](#)
- [Area Forecast Discussion](#)
- [Special Weather Statement](#)
- [Local Annual Operations Plan - 2018](#)

- [Local NFDERS Forecasts](#)
- 300011 = Albany Pine Bush NY
- 301111 = Belleayre Mountain NY
- 300411 = Lake Pleasant NY
- 305103 = Stonykill NY
- 301901 = Saratoga NY
- 431303 = Woodford VT

[RAWS Stations](#)

- [National NWS Fire Weather Page](#)
- [Storm Prediction Center - Fire Weather](#)
- [National Interagency Fire Center](#)
- [USDA Forest Service](#)
- [Fire Weather Related Links](#)
- [Wildland Fire Safety Page - NWS](#)



NWS Albany Fire Weather Webpage



weather.gov/albany/EMfire



Weather Hazards

Map displays active watch, warnings, advisories and short term forecasts in the lower 48 states.

[Surface Fronts & Sea-level Pressures](#)

[Hazards Assessment](#)



Fire Weather Graphics

A graphical depiction of forecast fire weather elements. Updated daily around 4 am/pm or more frequently if necessary.



Day 1 Outlook

...is issued twice a day at 4 am (CST/CDT) with an update by 1700 UTC.

[Day 1 Fire Weather Discussion](#)

[About Fire Weather Outlooks](#)



Day 2 Outlook

...is issued twice a day at 10 UTC with an update by 2000 UTC.

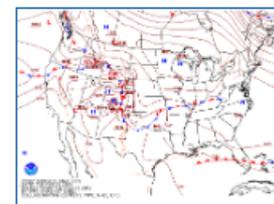
[Day 2 Fire Weather Discussion](#)



Day 3-8 Outlook

...is issued once a day at 2200 UTC.

[Day 3-8 Fire Weather Discussion](#)

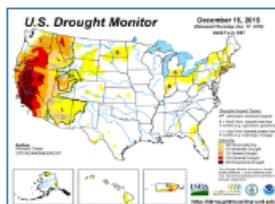


Surface Analysis

The [Weather Prediction Center](#) produces surface maps which depict the analysis of highs, lows, fronts, troughs, outflow boundaries, squall lines, and drylines.

[National Forecast Maps](#)

[Regional Observations](#)



U.S. Drought Monitor

The U.S. Drought Monitor is produced in partnership between the National Drought Mitigation Center at the University of Nebraska-Lincoln, the United States Department of Agriculture, and the National Oceanic and Atmospheric Administration.

[Drought Fact Sheet](#)



Local Drought Statement

Product provides up-to-date reports on current drought situations across east central New York & western New England. It will be issued when the U.S. Drought Monitor indicates a drought intensity at the level of D2 or worse for any portion of the local area.



Spot Forecast Webpage





Spot Forecast Webpage

weather.gov/spot

- Enter nearest address, lat/lon, or click the map

Step 1: Establish incident location using A or B below.

A. Set request location using nearest street address.

Note 1: Valid entries are street address, zip code, city, state, or latitude & longitude.
Note 2: Latitude & Longitude will return the nearest street address. For exact latitude and longitude points use Step B entry below.
Note 3: City, State, and Zip Code will return a geographic centers.

PLOT ADDRESS

- OR -

B. Set request location using latitude & longitude, USNG, left-click on spot location, or drag the map pointer to spot location below.

Note 1: If the map below does not appear you may enter your decimal Lat/Lon below.
Note 2: To start over click the Reload button on your Web Browser.
Note 3: Latitude, Longitude information should be entered in WGS84/NAD83 coordinates in order to ensure accurate forecast locations.

Decimal Degree Latitude, Longitude
 West Longitudes Are Negative
 Example: 25.6319 -80.2025

49.0291, -95.1926

PLOT

United States National Grid (USNG)
 Valid for points between 84N and 80S Latitude
 Require 13 character grid - 10 meter precision
 Example: 18SUJ23480647

15U UQ 3972 3300

PLOT

Degree, Minute, Seconds
 Can accept decimal minutes as an input
 Example: 25 deg 19 min 23 sec W

49 deg 1 min 45 sec N
 95 deg 11 min 33 sec W

PLOT

Elevation

Latitude & Longitude value used to determine elevation.
 If elevation data is in error, changes can be made on the second page of this spot request.

1049 FT

NEW You can now left click to place spot location marker





Spot Forecast Webpage

Step 2: Select the incident type for the request.

Set Incident Type

Fire

- Wildfire Prescribed Fire

Hazardous Materials

- HAZMAT Land HAZMAT Inland Waterway

Search and Rescue

- SAR Land SAR Water

- Marine

- Other (Volcano, Earthquake, Special Event)

Step 3: Proceed to detailed incident request form.

After setting your location and incident type above, click on the 'Generate A Spot Request' button below to proceed to the SPOT request form.

Generate A Spot Request





Spot Forecast Webpage



Spot Forecast Incident Type: Wildfire

Spot Request Contact Information

(*) PROJECT NAME: NWS ALY TEST

For NWS Spot forecast policy, see section 4.0 in NWS Instruction 10-401 at: <http://www.nws.noaa.gov/directives/010/010.htm>

(*) Requesting Agency: NWS Albany

(*) Requesting Official: Dan Thompson

(*) E-mail address: dan.b.thompson@noaa.gov

(*) Phone number: 555-555-5555

Phone Extension:

Contact Person:

FAX number:

Location

(WGS84 / NAD83 preferred)

(*)Latitude: 42.6759

7.5' Quad:

(*)Longitude: -73.7798

TOP

BOTTOM

Elevation: 243

Feet

Feet

(Elevation preferred in feet)

Fire Weather Supplemental Information

Drainage:

Size: (In Acres)

Aspect:

Fuel Type:

Sheltering



Full



Partial



Unsheltered





Spot Forecast Webpage

Specify time information

Specify desired forecast elements

Forecast Information

DELIVER FORECAST

Date : 02/26/2019

Time : As Soon As Possible

FORECAST STARTING

Date : 02/26/2019

Time : 14:00

TIMEZONE

(Local Time)

EASTERN

Narrative FORECAST FORMAT

2 Hr

2 Hr

3 Hr

Tabular Time Table Interval

This Afternoon	Tonight	Wednesday	Select All Periods
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sky/Weather
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Temperature
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Humidity
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Chance of Wetting
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rain
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Chance of Precipitation
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Precipitation Amount
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Begin/End of Precipitation
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Max/Min Temperature
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Max/Min Humidity
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Wind (20 FT)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Wind (Eye Level)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Surface Wind
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mixing Height
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Transport Winds
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Haines Index
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Dispersion
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ventilation Rate
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Dewpoint
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Smoke Dispersal

NOAA Hysplit Model

Would you like to include a run of the Hysplit Model with this request? If so please verify your email address above as this will be used to send you the hysplit model run.

- YES
- NO

Remarks



Spot Forecast Webpage

Submit weather observations (optional)

Observations

(*) When submitting an observation, the yellow fields are required in addition to at least one weather element.

WX OB 1	WX OB 2	WX OB 3	WX OB 4	WX OB 5
<input type="checkbox"/> Remove Ob				
(*)Site: <input type="text"/>				
(*)Date: <input type="text" value="02/26/2019"/>				
(*)Time: <input type="text" value="12:45"/> (Local)				
(*)Elev: <input type="text"/>				
Wind Dir: <input type="text"/>				
Wind Spd: <input type="text"/>				
Temp: <input type="text"/>				
WB: <input type="text"/>				
RH: <input type="text"/>				
Td: <input type="text"/>				
Sky: <input type="text"/>				
Wx: <input type="text"/>				
Rmks: <input type="text"/>				

Submit Spot Request

Clicking the button below will create a one time spot request.

This request will be processed and a forecast will be generated by the servicing forecast office at the time they receive the spot request.

At any time until the expiration of this forecast, another immediate spot request may be generated off of the original request. Additionally, the immediate spot request can be converted into a scheduled request by contacting your servicing forecast office .

Click "Submit Request"

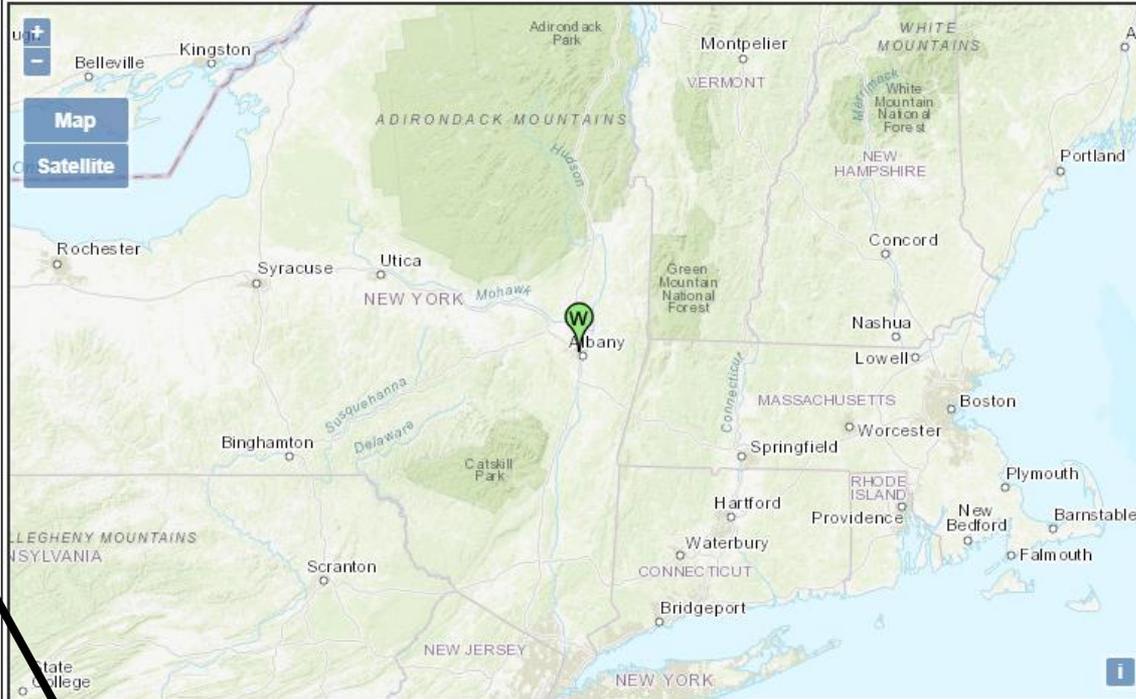


Spot Forecast Webpage

Once you submit the request, it will send NWS an alert immediately

Click here once status is "Completed" to view the forecast. We will also contact you when it is ready.

NWS Spot Forecast Monitor



Submit New Spot Request

Calendar

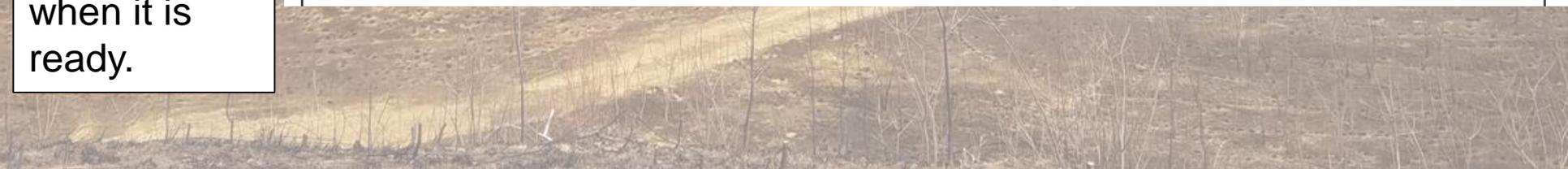
Spot Monitor Legend

- W = Wildfire
- P = Prescribed
- H = Hazmat
- S = SAR
- M = Marine
- Completed
- Pending
- Question

Permalink for page bookmark
X:198.206.33.40

Active Spot Forecasts

Name	Type/Deliver Time	Status	WFO	Actions
NWS ALY TEST	Wildfire 2019-02-26 12:59 PM EST	Request pending	ALY	Change Request Submit Obs Archive Delete





Spot Forecast Webpage



Ash Creek Salvage pile burn Prescribed Fire

Forecast Start Time: 2019-02-26 11:00 AM MST
Request Time: 2019-02-26 10:26 AM MST
Deliver Time: 2019-02-26 10:26 AM MST
Forecast Complete At: 2019-02-26 10:41 AM MST

Requested By: Northern Cheyenne Agency
Contact:
Phone:
Fax:



Location Legal:
Lat/Lon: 45.6356 / -106.433
Quad:
Calculated: 45.6356 / -106.433

Elevation: 3772
Drainage:
Aspect: East
Size:
Fuel Type: (unsheltered)

Observations

Site	Date	Elev	Wind	Temp	WB	RH	Td	Sky	Wx	Rmk
------	------	------	------	------	----	----	----	-----	----	-----

No observations available

[Submit New Observation](#)

Requested Parameters

Remarks

X X X Sky/Weather
X X X Temperature
X X X Humidity
X X X Chance of Wetting Rain
. . . Lightning Activity Level
X X X Wind (20 FT)
X X X Ridge Top Winds
X X X Mixing Height
X X X Transport Winds
X X X Haines Index

Forecast:

Spot Forecast for Ash Creek Salvage pile burn...Northern Cheyenne Agency
National Weather Service Billings MT
1040 AM MST Tue Feb 26 2019

Forecast is based on ignition time of 1100 MST on February 26.
If conditions become unrepresentative...contact the National Weather Service.

Please contact our office if you have questions or concerns with this forecast.

.DISCUSSION...

Periods of light snow are expected this afternoon through the evening...decreasing late tonight. Temperatures today will be in the single digits above zero with lows tonight from zero to 10 below zero. Expect west to northwest winds 5 to 10 mph. Thursday will be a little warmer with just some light snow flurries. Winds will be light out of the south. BT

.REST OF TODAY...

Sky/weather.....Cloudy with periods of snow...mainly afternoon and evening.
Max temperature.....Zero to 5 above zero.
Min humidity.....63-68 percent.
Wind (20 ft).....
Slope/valley.....Northwest winds around 9 mph.
Ridgetop.....West around 25 mph.
Mixing height.....1800 ft AGL.
Transport winds.....Northwest around 15 mph.
Haines index.....2 or very low potential for large plume dominated fire growth.
CWR.....22 percent.

.TONIGHT...

Sky/weather.....Cloudy with scattered snow showers.
Min temperature.....3 below-8 below zero.
Max humidity.....77-82 percent.
Wind (20 ft).....
Slope/valley.....Northwest winds around 6 mph.
Ridgetop.....Northwest around 20 mph.
Mixing height.....300 ft AGL.
Transport winds.....Northwest around 9 mph.
CWR.....14 percent.





Spot Forecast Webpage

\$\$
Forecaster...Tesar
Requested by...TravisLimpy
Type of request...PRESCRIBED
.TAG 1901723.1/BYZ
.DELDT 02/26/19
.FormatterVersion 1.0.25
.EMAIL travis.limpy@bia.gov

Please Provide Feedback:

Send Feedback

[Printer Friendly Version of Forecast](#) [Latest Forecast](#)
[Back to Forecast Monitor](#) [Copy Info to Spot Request for a New Incident](#) [Copy Info to New Spot Request for this Incident](#)

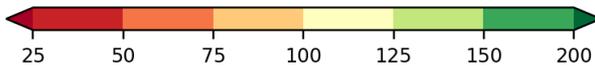
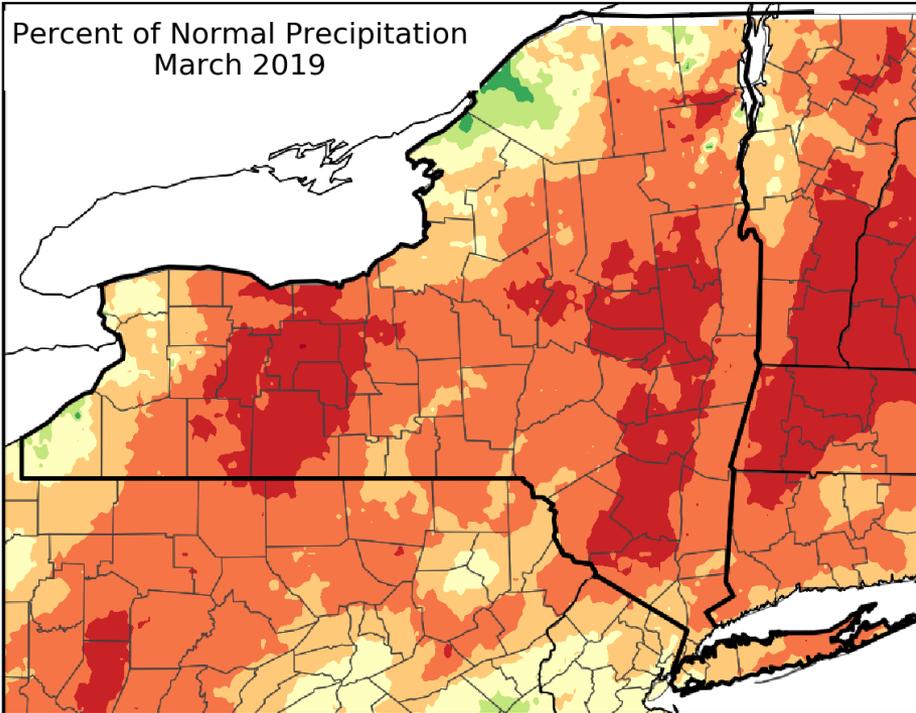


2019 Fire Weather Season Review



2019 Fire Weather Season Review

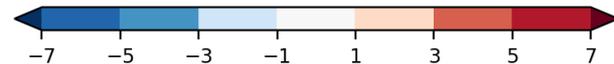
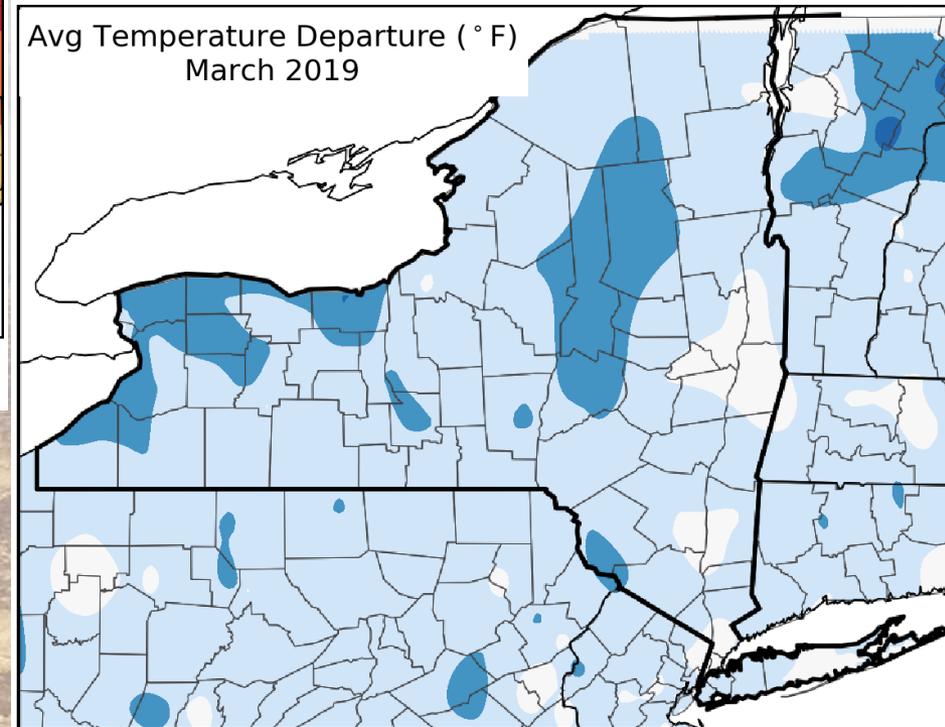
Percent of Normal Precipitation
March 2019



March:

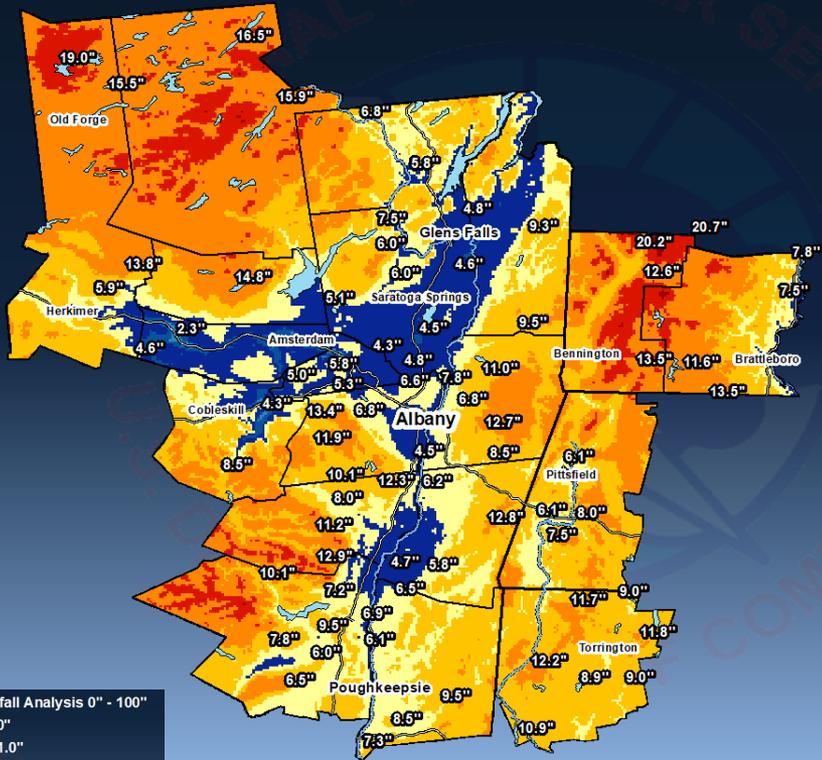
Near to below normal temps
Below normal precip

Avg Temperature Departure (° F)
March 2019



2019 Fire Weather Season Review

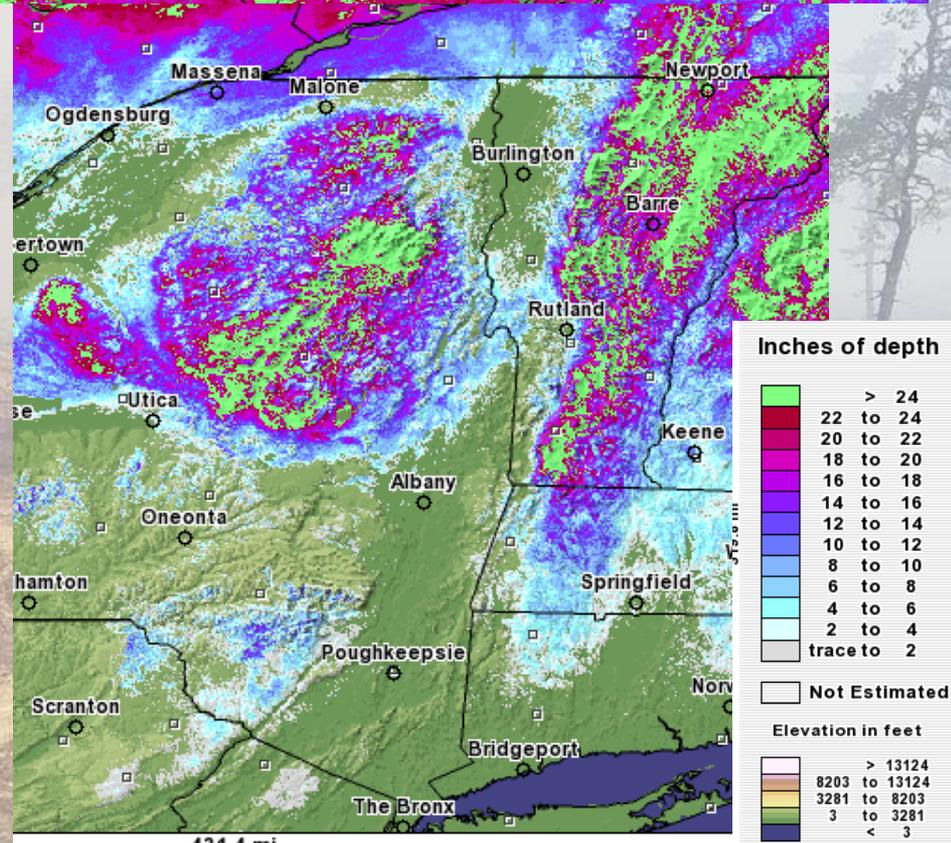
National Weather Service Albany New York
Monthly Snowfall March 2019
 Analysis Data Source: Regional Observations



First spot forecast request received by NWS Albany: March 20

March: Below normal snowfall
 Snow cover gone at Albany by March 14

Modeled Snow Depth (Shallow-snow Legend) for 2019 March 15, 15:00 UTC
 400.0 mi

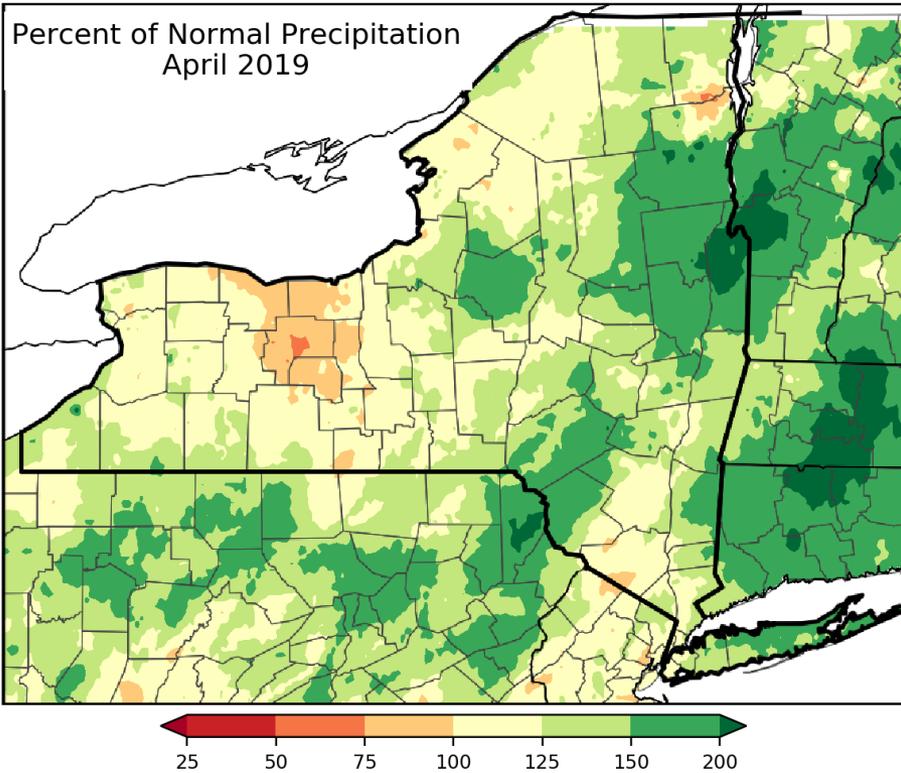


431.4 mi

sent actual precipitation totals at that location.

2019 Fire Weather Season Review

Percent of Normal Precipitation
April 2019



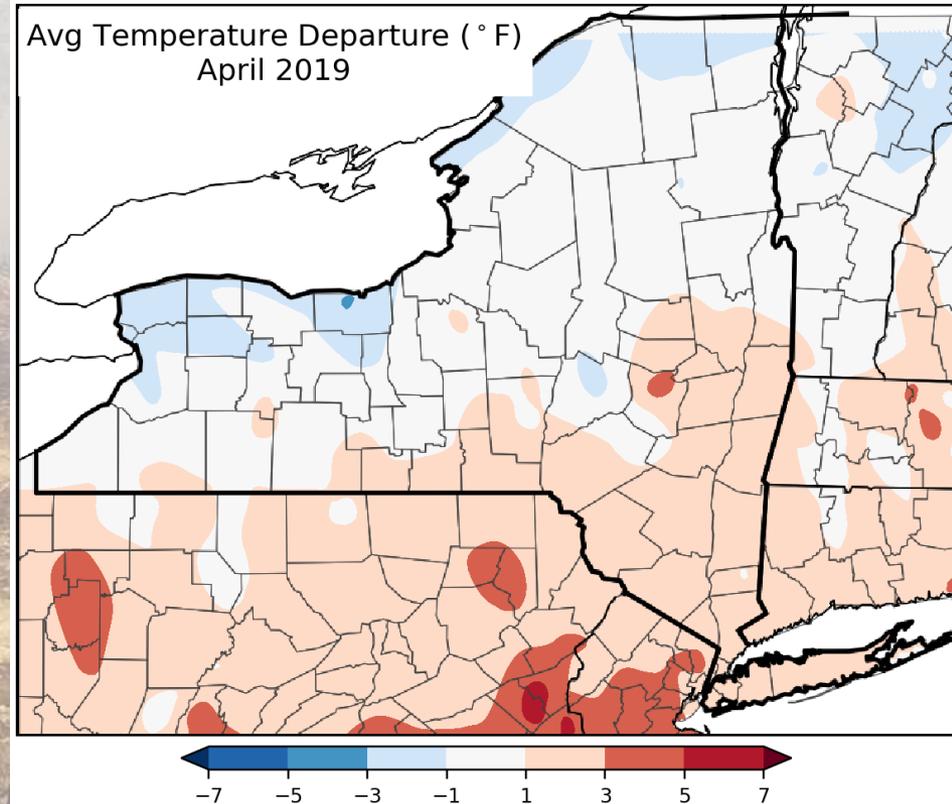
April:

Near to above normal temps
Near to above normal precip

Albany April Stats:

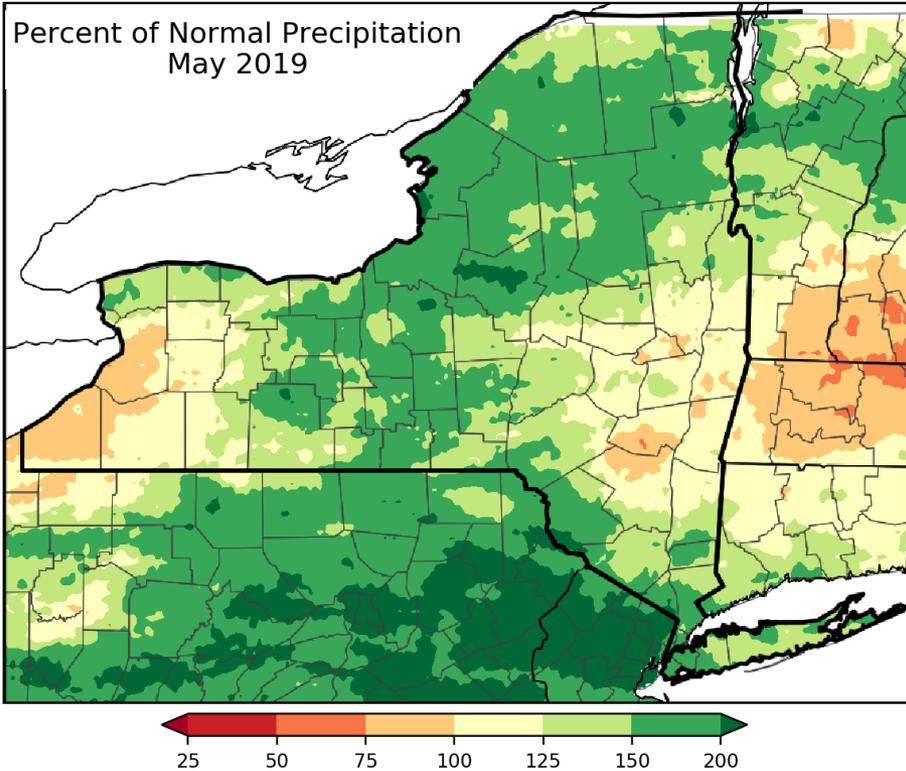
- 16 days with measurable precip (normal is 12)

Avg Temperature Departure (° F)
April 2019



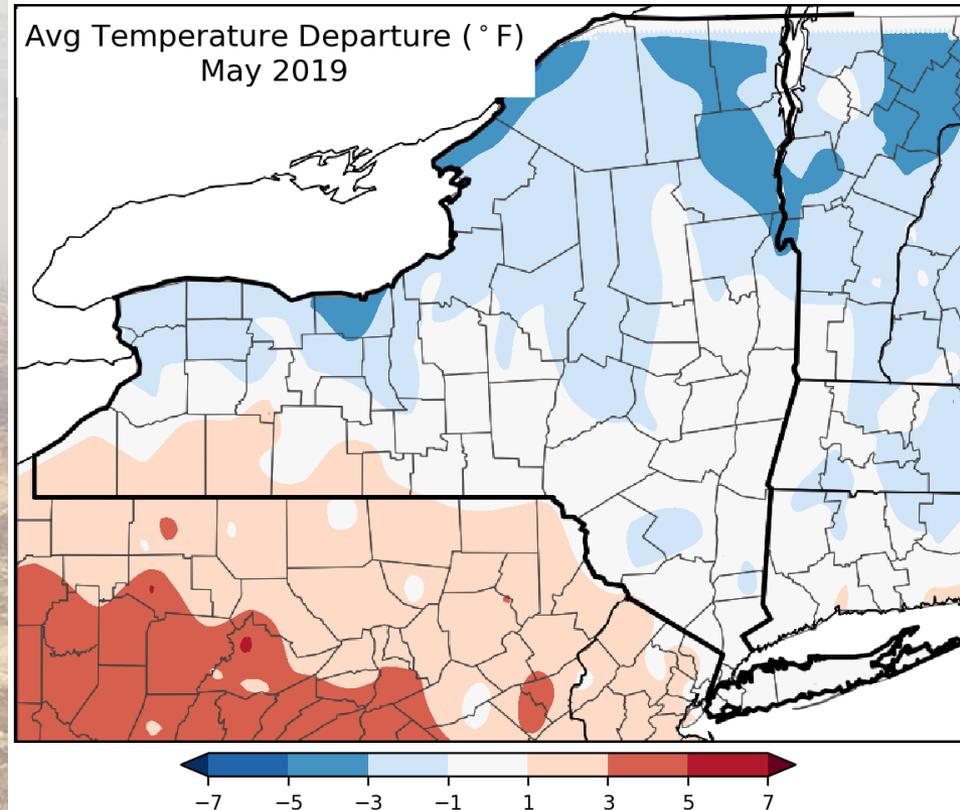
2019 Fire Weather Season Review

Percent of Normal Precipitation
May 2019



May:
Near to below normal temps
Near normal precip

Avg Temperature Departure (° F)
May 2019



Albany May Stats:

- 18 days with measurable precip (average 13)



2019 Fire Weather Season Review

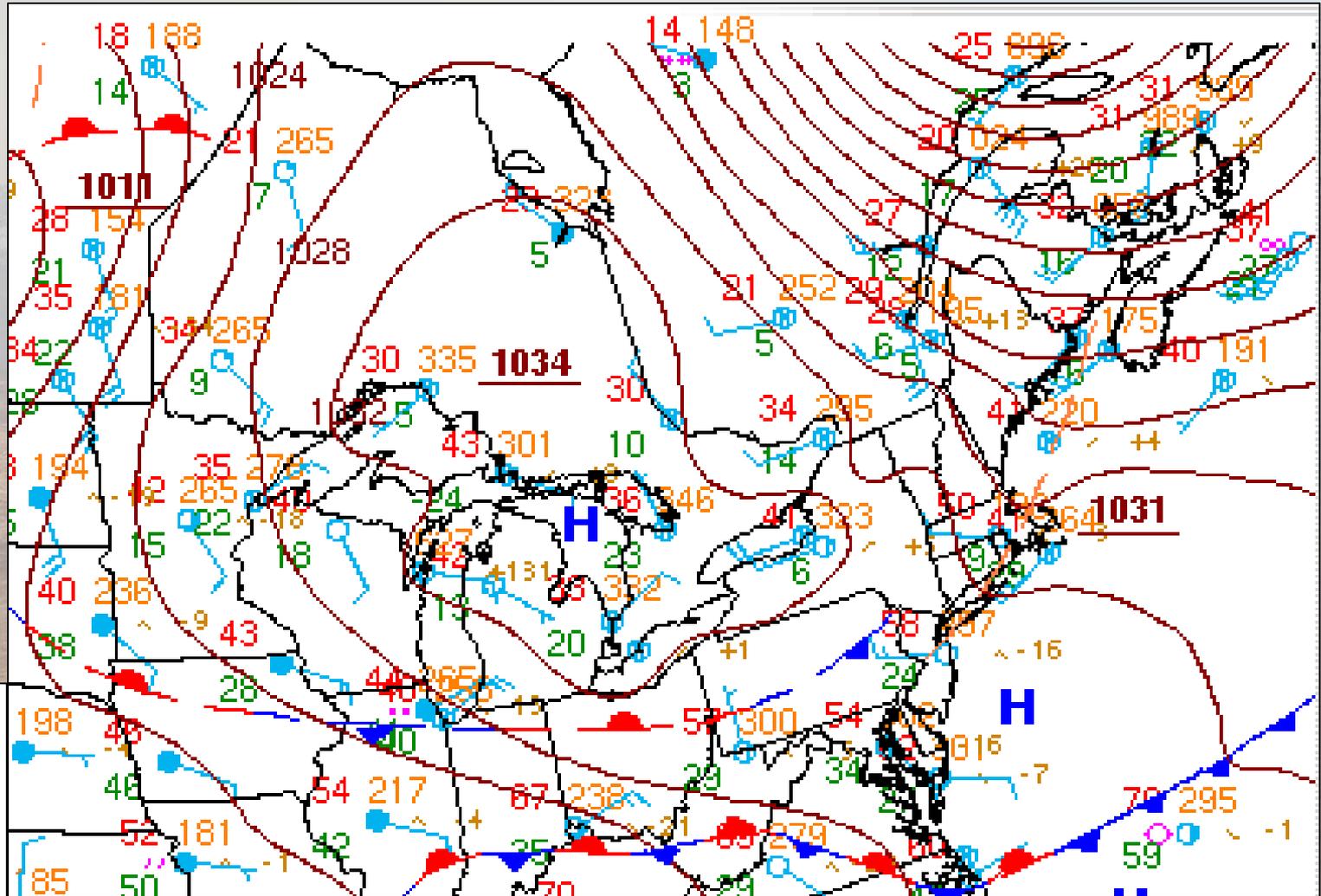


- Three days where Special Weather Statements were issued for elevated fire weather concerns
 - April 1 (MA)
 - April 3 (NY, MA, VT)
 - April 4 (NY, VT)
- Red Flag Warning issued April 4 for the Capital District, Mid-Hudson Valley, southern/central Taconics, Berkshires, and Litchfield Hills



2019 Fire Weather Season Review

- Red Flag Warning issued April 4 for the Capital District, Mid-Hudson Valley, southern/central Taconics, Berkshires, and Litchfield Hills



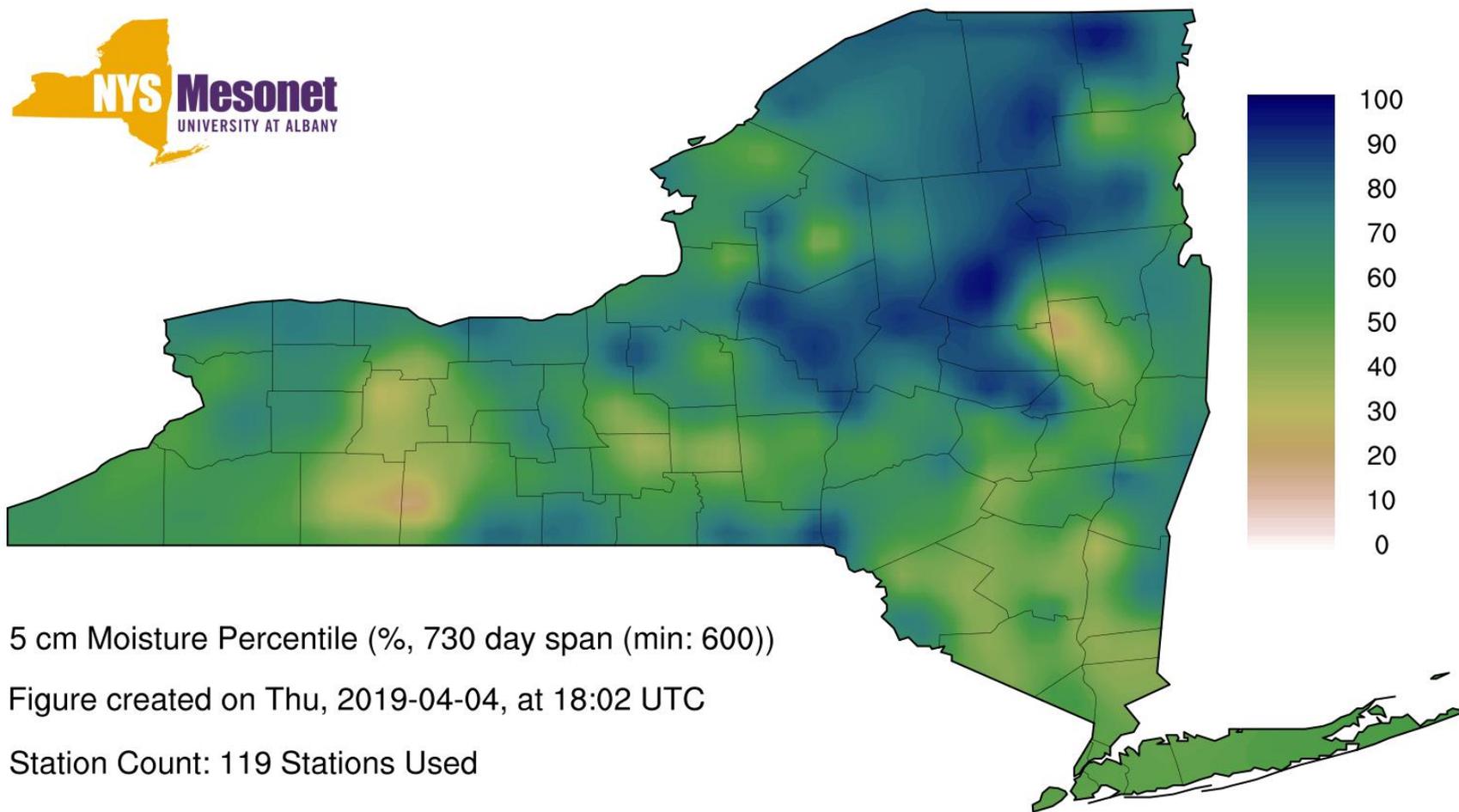
18Z/2 pm
4 April 2019
Surface
Analysis



2019 Fire Weather Season Review



- Red Flag Warning issued April 4 for the Capital District, Mid-Hudson Valley, southern/central Taconics, Berkshires, and Litchfield Hills



5 cm Moisture Percentile (% , 730 day span (min: 600))

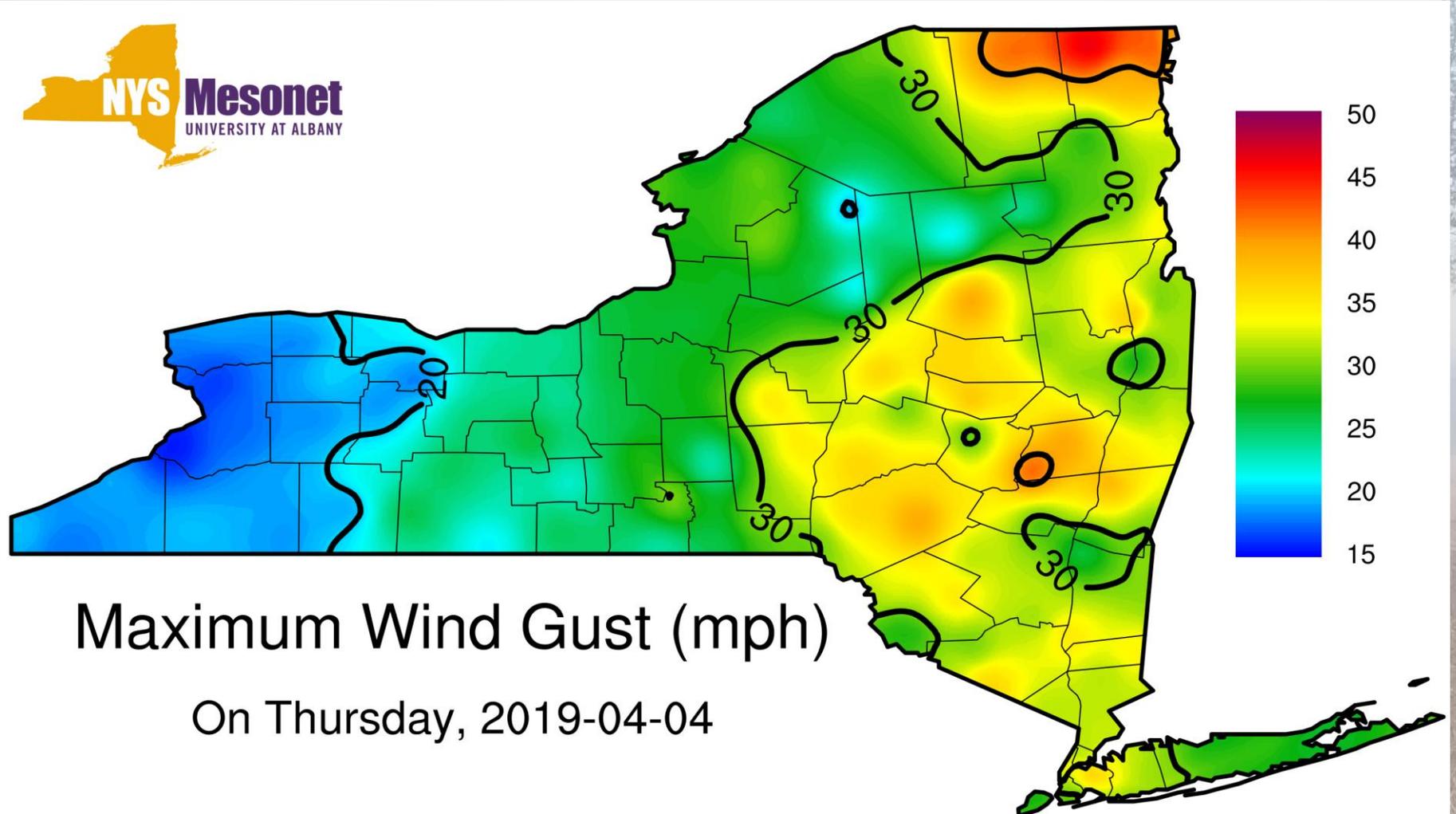
Figure created on Thu, 2019-04-04, at 18:02 UTC

Station Count: 119 Stations Used



2019 Fire Weather Season Review

- Red Flag Warning issued April 4 for the Capital District, Mid-Hudson Valley, southern/central Taconics, Berkshires, and Litchfield Hills

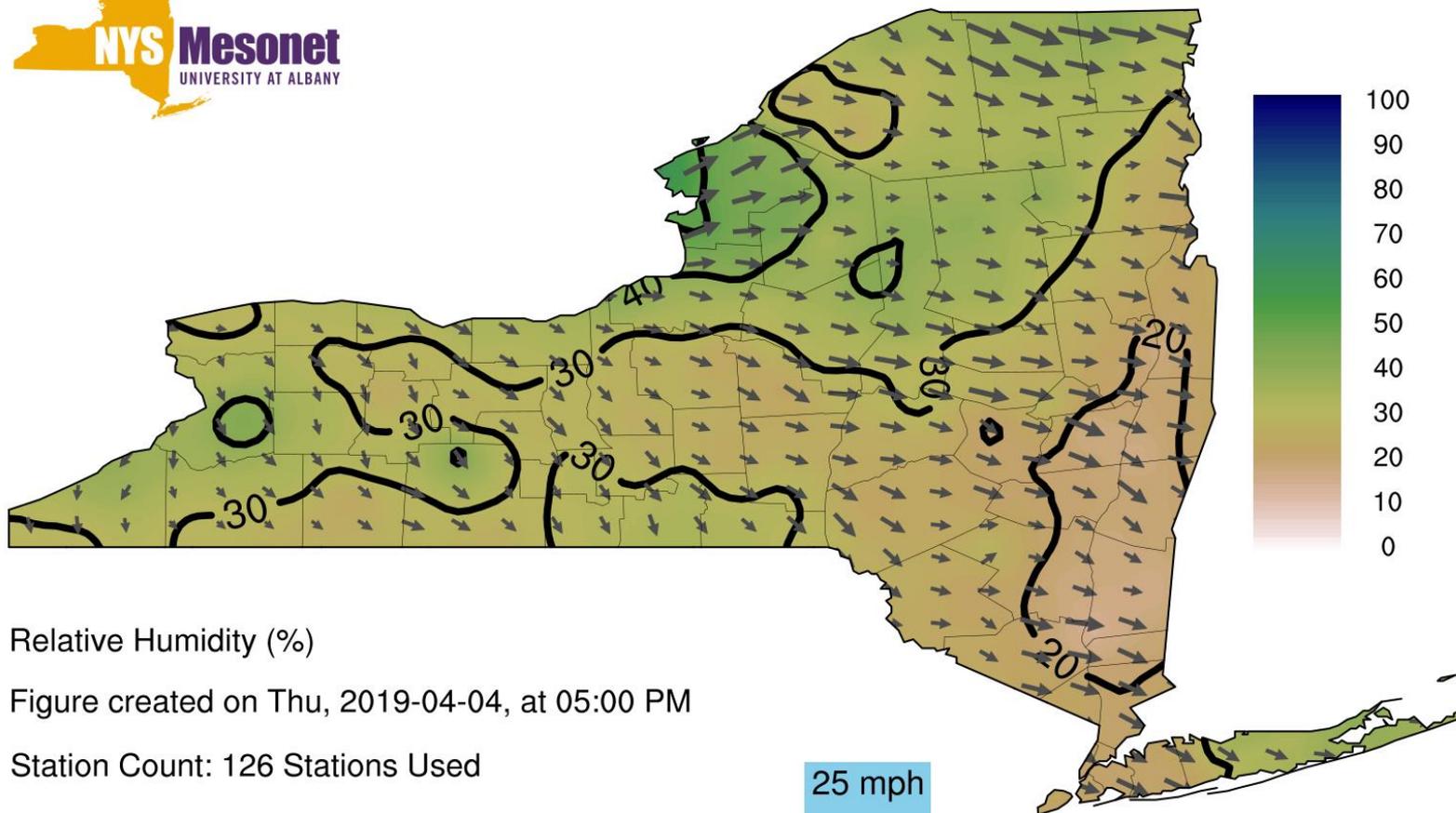




2019 Fire Weather Season Review



- Red Flag Warning issued April 4 for the Capital District, Mid-Hudson Valley, southern/central Taconics, Berkshires, and Litchfield Hills



Relative Humidity (%)

Figure created on Thu, 2019-04-04, at 05:00 PM

Station Count: 126 Stations Used



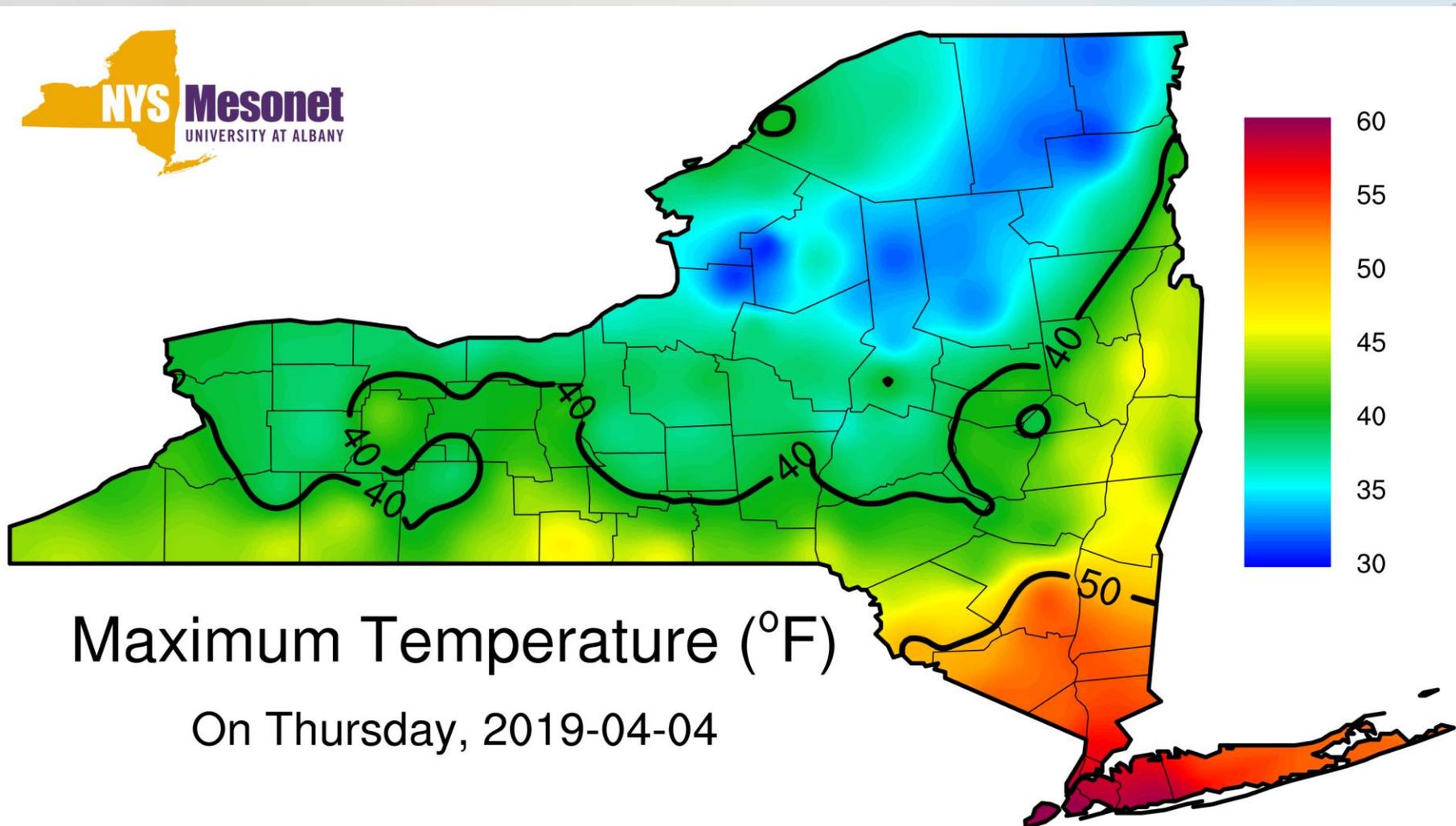
Data Valid: 2019/04/04 20:55:00 UTC



2019 Fire Weather Season Review



- Red Flag Warning issued April 4 for the Capital District, Mid-Hudson Valley, southern/central Taconics, Berkshires, and Litchfield Hills





2019 Fire Weather Season Review



- Late summer/early fall fire weather season:
 - A few small fires in the Adirondacks during the first two weeks of August caused by lightning or campfires
 - Sugarloaf Fire in Hudson Highlands State Park (Dutchess/Putnam border)
 - First reported September 20, burned at least a week
 - 50 acres, trailhead closed, no structures burned



Credit: Poughkeepsie Journal



Credit: Poughkeepsie Journal



2020 Spring Outlook

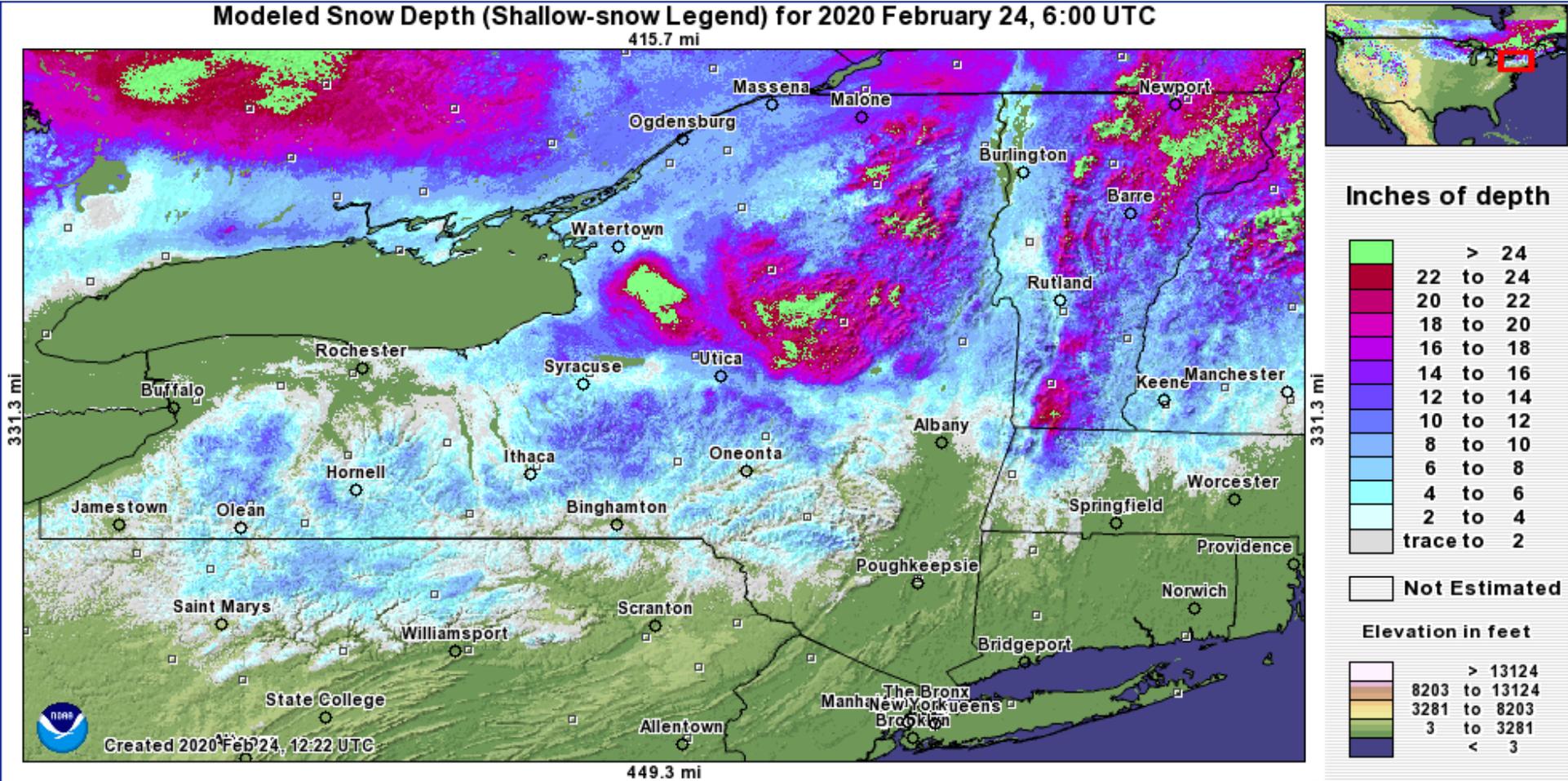




2020 Spring Outlook

CURRENT ESTIMATED SNOW DEPTH

Modeled Snow Depth (Shallow-snow Legend) for 2020 February 24, 6:00 UTC

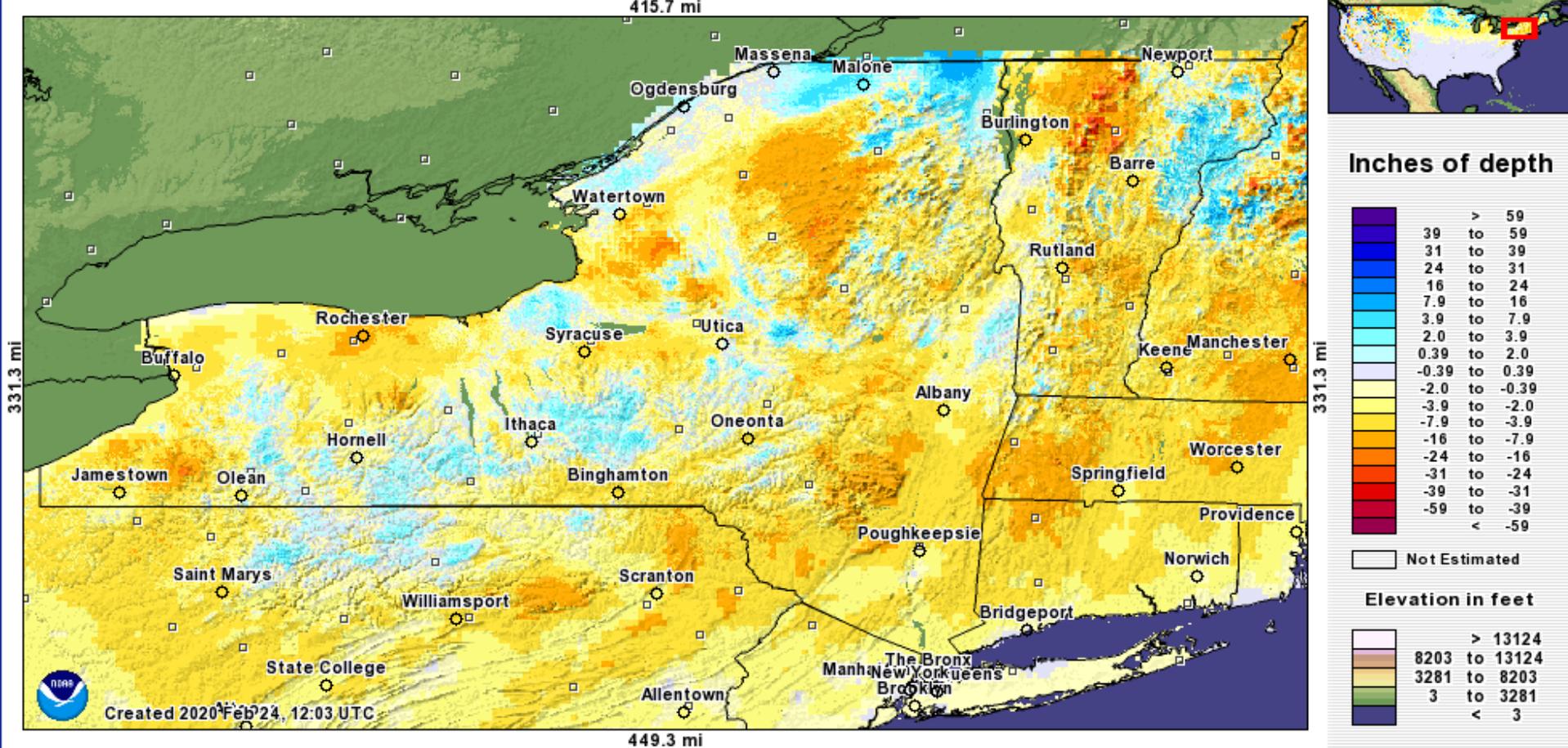


Slightly less than last year at this time

2020 Spring Outlook

CURRENT ESTIMATED SNOW DEPTH – DEPARTURE FROM NORMAL

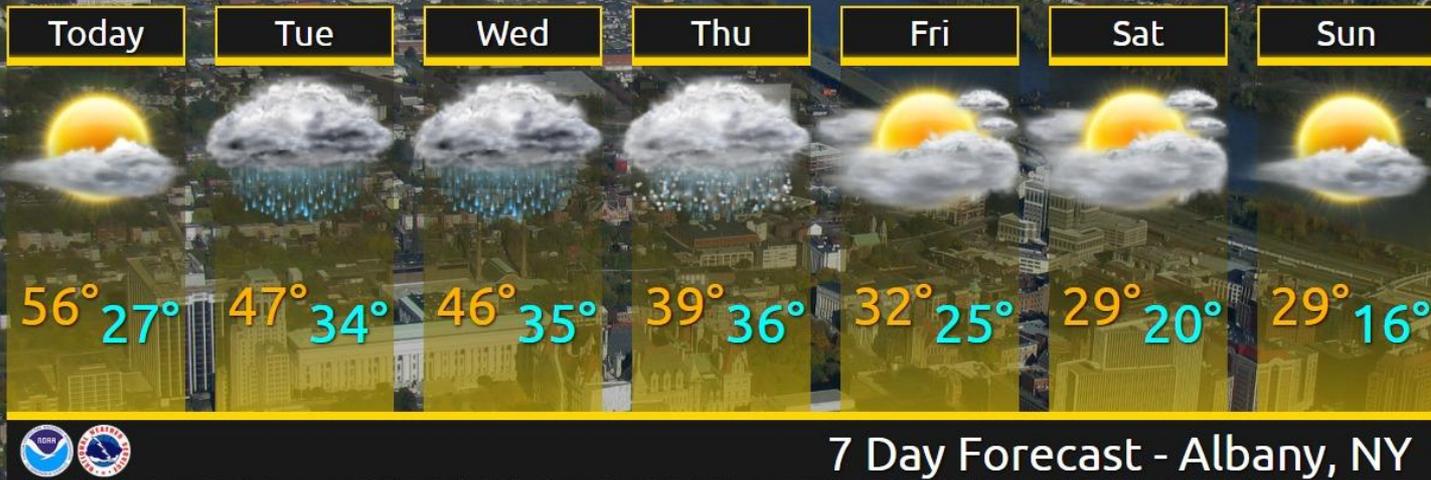
Modeled Snow Depth Departure from Normal (Daily) for 2020 February 24, 6:00 UTC



Generally below normal, although closer to normal in portions of the Adirondacks



2020 Spring Outlook



- Mild and wet through Thursday
- Becoming cold and dry Friday into the weekend (except lake effect snow in the Adirondacks)

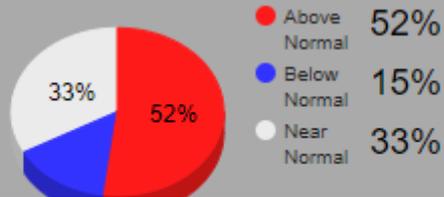


2020 Spring Outlook

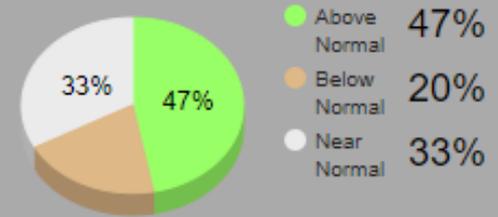


- March 3–9 likely near to above normal temps & precip

Three Category Temperature Outlook
 Normal Maximum Temperature: **41**
 Normal Minimum Temperature: **22**



Three Category Precipitation Outlook
 Normal Precipitation: **0.65**



8 to 14 Day Outlook

Tuesday March 3 - Monday March 9

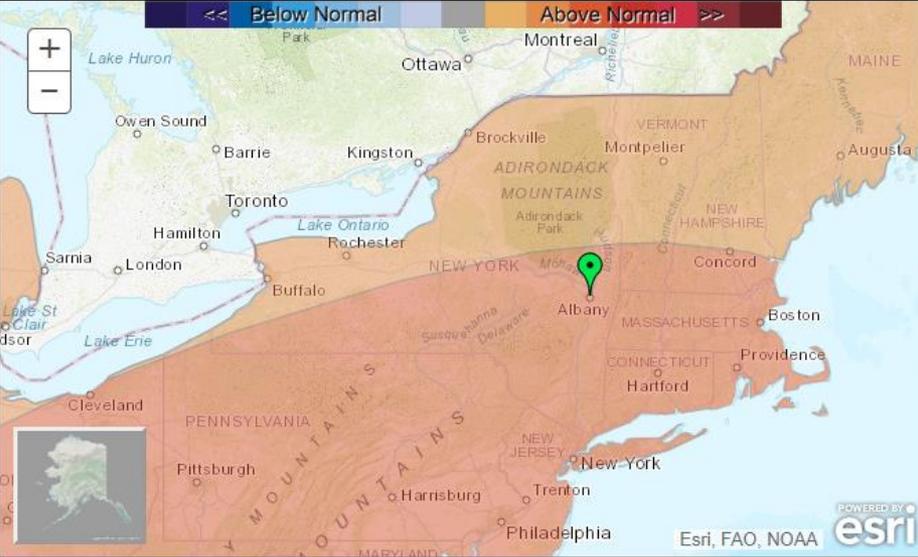
Temperature

Opacity: 60%

Precipitation

● Outlook

● Outlook



8 to 14 Day Outlook

Tuesday March 3 - Monday March 9

Temperature

Opacity: 60%

Precipitation

● Outlook

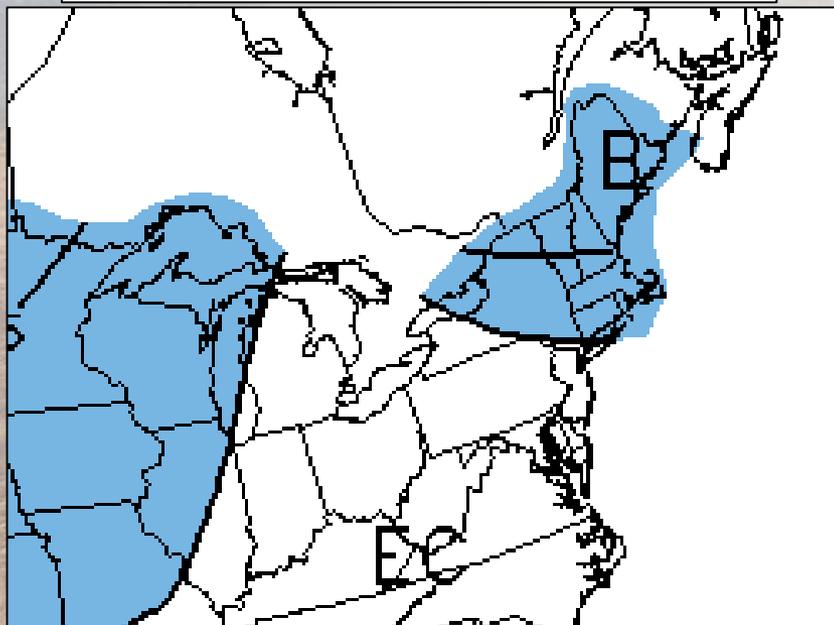
● Outlook



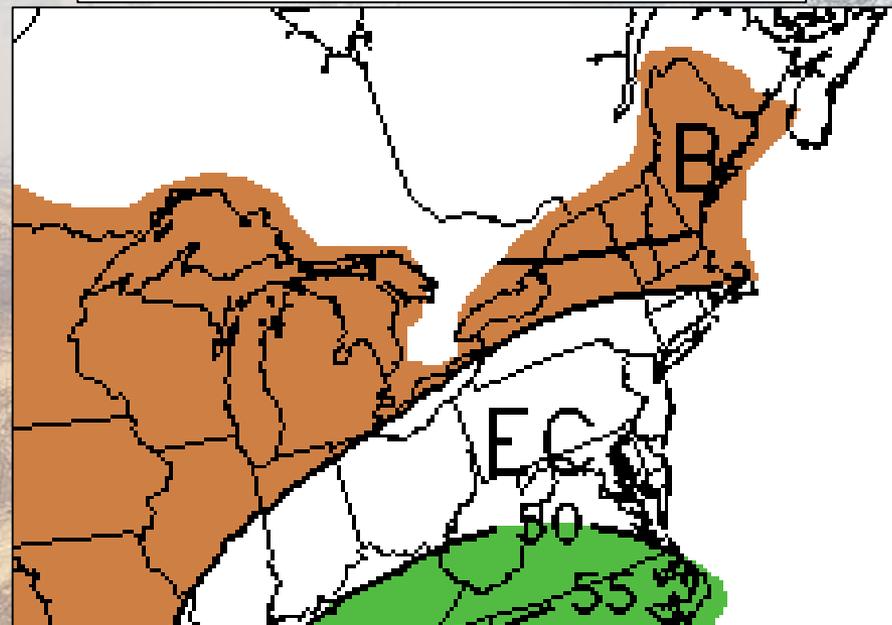
2020 Spring Outlook

- Possibly becoming colder and drier by Mid-March

**Climate Prediction Center
Week 3-4 Temperature Outlook
Valid March 7-20**



**Climate Prediction Center
Week 3-4 Precipitation Outlook
Valid March 7-20**



2020 Spring Outlook

- Climate Prediction Center slightly favoring above-normal temperatures during spring (MAM)

Select Lead ▾

Seasonal Outlook March 2020-May 2020 (Lead 1)

Temperature

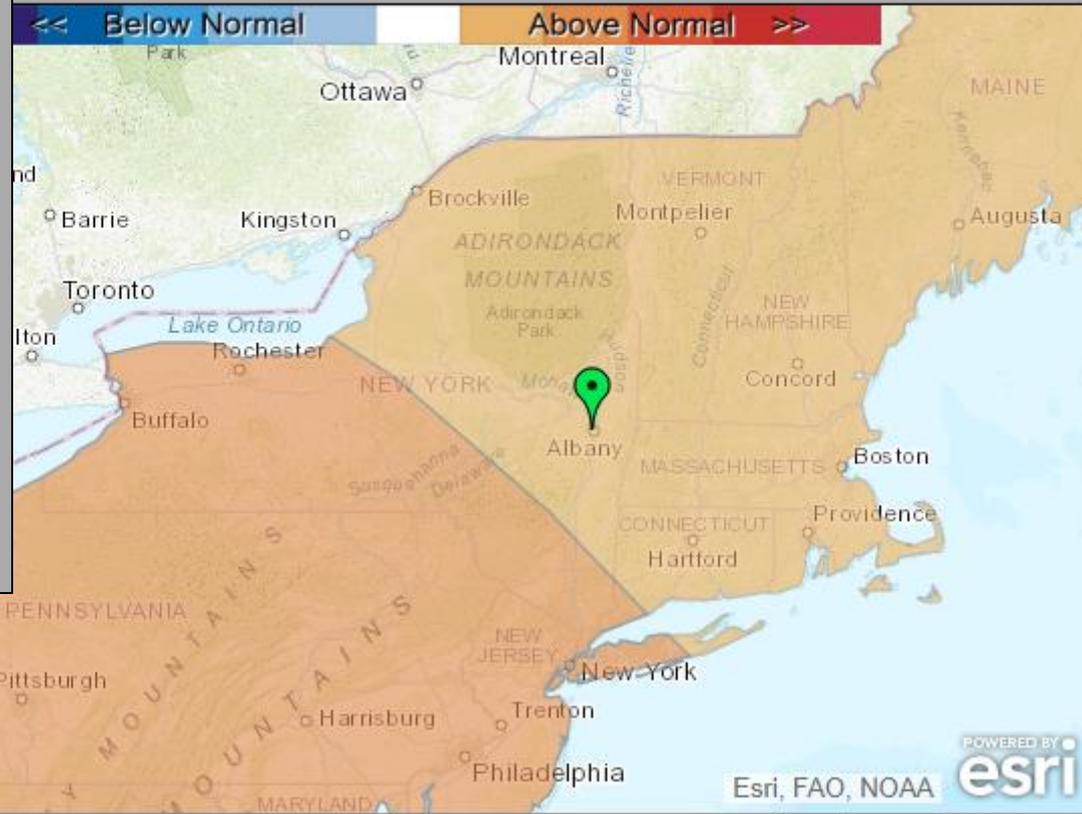
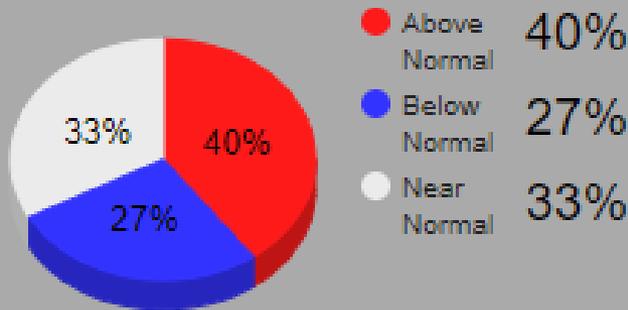
Opacity: 60%

Precipitation

● Outlook

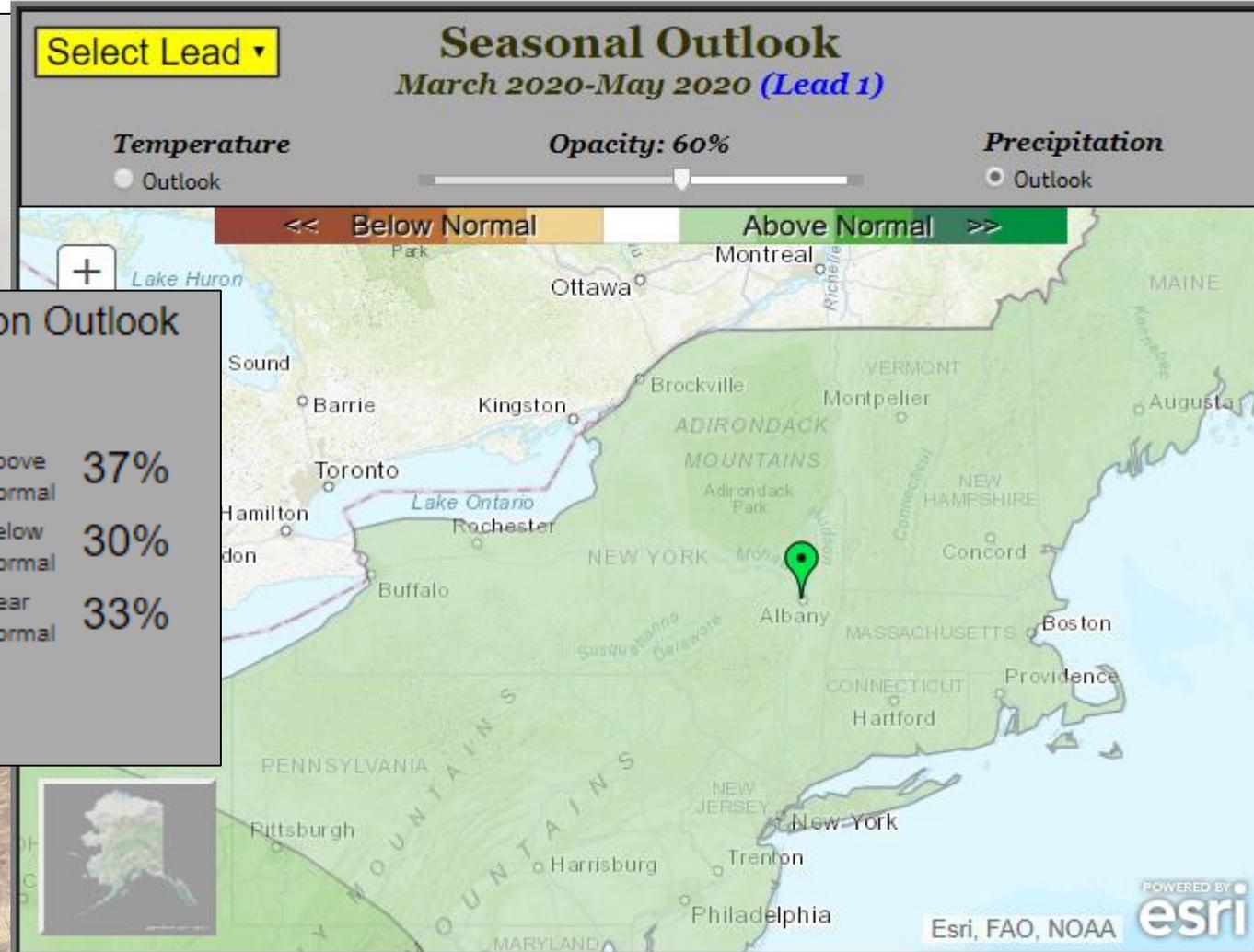
● Outlook

Three Category Temperature Outlook
Normal Maximum Temperature: **57**
Normal Minimum Temperature: **38**

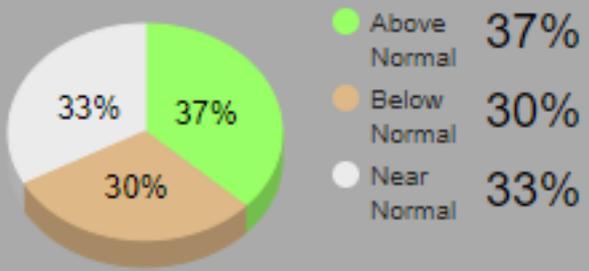


2020 Spring Outlook

- Climate Prediction Center slightly favoring above-normal precipitation during spring (MAM)



Three Category Precipitation Outlook
Normal Precipitation: **9.85**





2020 Spring Outlook



- Snow depth below normal most places (especially south of I-90)
- Snow depth closer to normal in the Adirondacks
- Near to above normal temps likely the first week of March, but possibly on the wetter side
- Seasonal forecasts slightly favor above normal temps and precip for spring (MAM)





Miscellaneous Items





2020 NY Burn Ban/Start of NWS Albany Fire Weather Season

**Wednesday, March 11th (or earlier
if conditions warrant)**





NEW:

**Experimental 7-day FWM/NFDRS
Forecast will be issued Monday,
March 2 through Sunday, May 31**





Fire Weather Webpage – Feedback Requested

www.weather.gov/aly/EMfire

Send feedback to:
dan.b.thompson@noaa.gov



Fire



Flooding /
Hydrology



Severe



Space



Tropical



Winter

[Spot Fire Weather Forecast Request](#)

Red Flag Criteria

RH
[Rainfall](#)
Wind
Fuel
Temperature

**Vegetation Stage I or II
cured/transition - Spring/Fall**

less than 30%
less than 1/4 inch in previous 5 days
sustained or frequent gusts above 25 mph
N/A
greater than 50 degrees F

**Vegetation Stage III
green - Summer**

less than 30%
less than 1/4 inch in previous 8 days
sustained or frequent gusts above 25 mph
[Keetch-Byram Drought Index](#) above 300
greater than 50 degrees F

Fire Weather Watch is issued [up to 96 hours](#) in advance of expected onset of red flag criteria

Red Flag Warning is issued when red flag criteria will occur in [48 to hours or less](#)

Special Weather Statement is issued when Red Flag criteria are met, however temperatures are below 50F, or to raise elevated fire awareness

Local Products & Resources

- [Fire Weather Watch / Red Flag Warning](#)
- [Routine Fire Weather Forecast](#)
- [Area Forecast Discussion](#)
- [Special Weather Statement](#)
- [Spring Fire Weather Webinar Slides \(PPT\) - 2019](#)
- [Local Annual Operations Plan - 2019](#)

[Local NFDERS Forecasts](#)

- 300011 = Albany Pine Bush NY
- 301111 = Belleayre Mountain NY
- 300411 = Lake Pleasant NY
- 305103 = Stonykill NY
- 301901 = Saratoga NY
- 431303 = Woodford VT

[RAWS Stations](#)

[National NWS Fire Weather Page](#)

- [Storm Prediction Center - Fire Weather](#)
- [National Interagency Fire Center](#)
- [USDA Forest Service](#)
- [Fire Weather Related Links](#)
- [Wildland Fire Safety Page - NWS](#)



Weather Hazards
Map displays active watch, warnings, advisories and short term forecasts in the lower 48 states.



Fire Weather Graphics
A graphical depiction of forecast fire weather elements. Updated daily around 4 am/pm or more frequently if necessary.

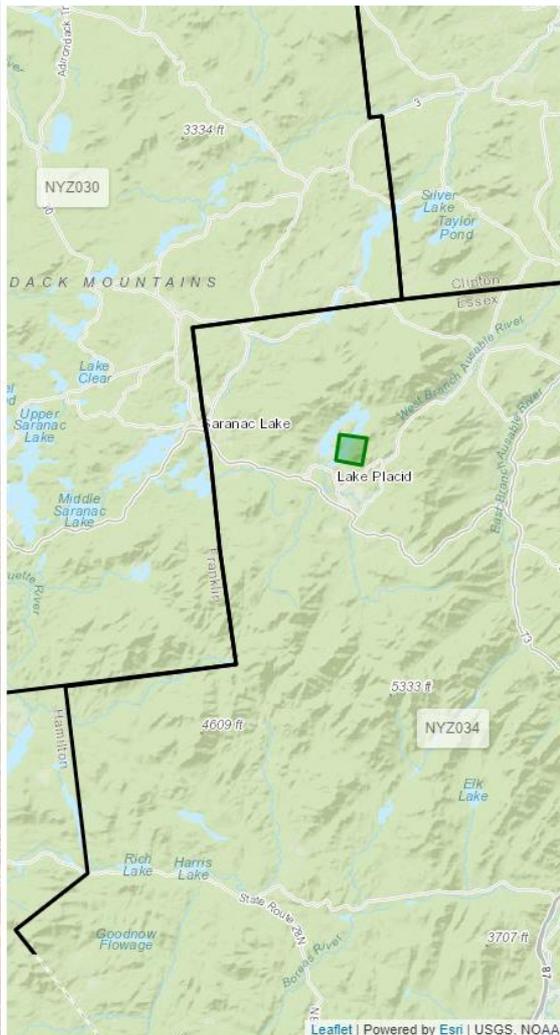


NEW:

Fire Weather Matrix – Feedback Requested

www.weather.gov/aly/EMfire

Send feedback to:
dan.b.thompson@noaa.gov



Forecast Matrix for 44.3120 -73.97232
For Planning Purposes Only, See SPOT for Official Forecast

	Tue Feb 18	Wed Feb 19	Thu Feb 20	Fri Feb 21	Sat Feb 22	Sun Feb 23
LAL	1	1	1	1	1	1
Min Humidity (%)	75	64	60	62	66	61
Max Wind Gust (mph)	41	32	16	23	25	16
Wind Direction *	S	W	W	W	W	SW
Haines	3	3	5	4	3	2
Max Temperature (F)	36	21	9	22	32	35
Max Humidity (%)	85	88	82	100	84	78
Cloud Cover @1500 (%)	100	62	53	46	53	60
Probability of Precip (%)	100	30	8	5	5	13

	Neutral - Values that Neutralize or Suppress Fire Conditions	Caution - Values that Support Elevated Fire Conditions	Danger - Values that Promote Extreme Fire Conditions
LAL Criteria:	4, 5	2, 3	6
Min Humidity Criteria:	>= 30 %	21 to 29 %	<= 20 %
Max Wind Gust Criteria:	<= 10 mph	11 to 19 mph	>= 20 mph
Wind Direction Criteria:	Criticality of wind direction highly dependent on burn operations and/or structures threatened. Direction matches timing of max gust.		
Haines Criteria:	<= 4	5	6
Max Temp. Criteria:	Temperature thresholds available between June 1 and September 20.		
Max Humidity Criteria:	>= 55 %	35 to 54 %	<= 34 %
Cloud Cover Criteria:	>= 40 %	< 39 %	
Probability of Precip Criteria:	>= 40 %	< 39 %	

A Critical Weather Day is when 4 or more parameters are Red.



NEW:

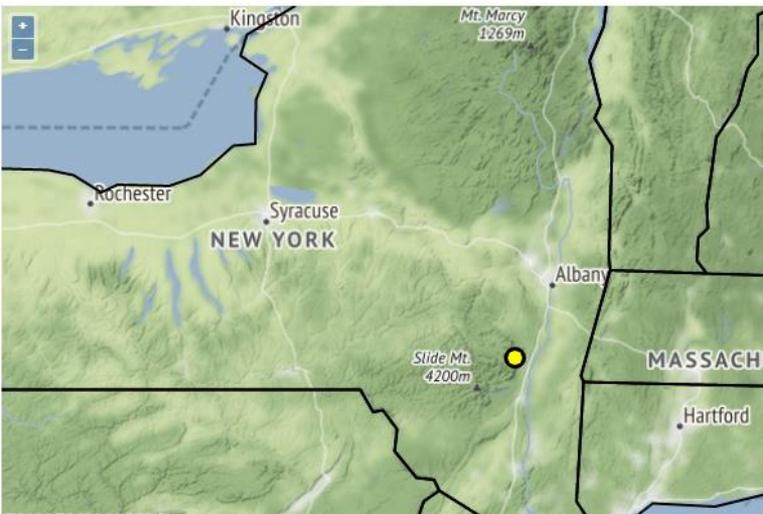
Fire

Weather Dashboard

Fire Weather Dashboard

Help | Change Data

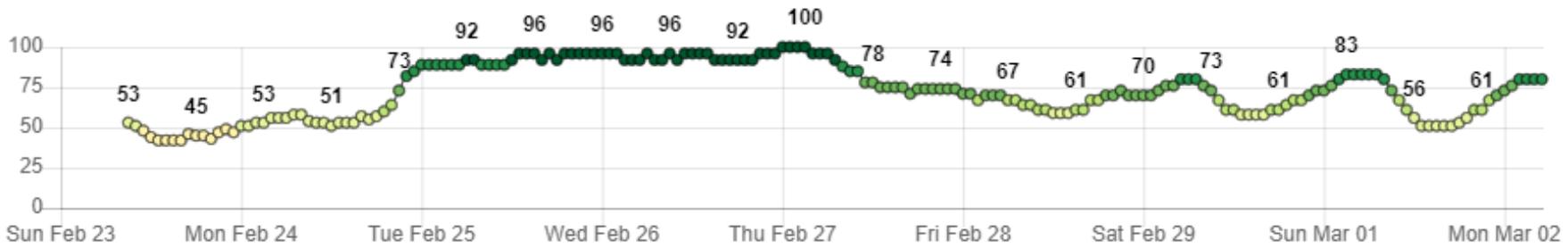
Search...



Hourly Table

Day of week:	Sunday 2/23															
Time:	8AM	9AM	10AM	11AM	12PM	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11P
Weather:	☀	☀	☀	☀	☀	☀	☀	☀	☀	☀	☀	☁	☁	☁	☁	☁
Temperature:	31	33	35	37	38	39	40	40	40	37	35	34	34	33	32	30
RH (%):	55	53	51	48	44	42	42	42	42	46	45	45	43	47	49	47
Wind Speed (mph):	5	5	3	5	5	5	5	5	5	6	6	7	7	7	7	8
Wind Gust (mph):	7	6	6	6	6	7	6	6	7	7	8	9	10	10	10	12
Wind Direction (°):	270	270	260	250	240	230	230	230	230	230	230	240	240	240	240	24
Wind Direction:	➔	➔	➔	➔	➔	➔	➔	➔	➔	➔	➔	➔	➔	➔	➔	➔
20 Ft. Wind Speed (mph):	5	3	3	3	3	3	3	3	3	5	5	6	6	6	6	6
20 Ft. Wind Direction (°):	270	270	260	250	240	230	230	230	230	230	240	240	240	240	240	24
20 Ft. Wind Direction:	➔	➔	➔	➔	➔	➔	➔	➔	➔	➔	➔	➔	➔	➔	➔	➔
Trans. Wind Speed (mph):	5	7	8	9	10	10	10	12	10	8	7	6	6	6	6	6
Trans. Wind Direction (°):	230	250	260	260	240	230	230	220	220	210	200	200	200	210	210	21
Trans. Wind Direction:	➔	➔	➔	➔	➔	➔	➔	➔	➔	➔	➔	➔	➔	➔	➔	➔
Prob. of Precip.:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Precip. Amount:			0.00					0.00							0.00	
Snow:			0.0					0.0							0.0	
Ice:			0.0					0.0							0.0	
Sky Cover:	4	4	4	4	4	5	11	15	15	14	14	13	10	8	5	6
Mixing Height (x100ft):	3	7	12	22	31	35	31	23	14	8	4	1	0	0	1	1
Wind Data (x1000 ft/s):	4	4	0	17	22	22	22	22	12	2	2	1	0	0	1	1

Relative Humidity, %





Coming Soon: Summit Forecasts

Selected summits
in the southern
Adirondacks,
Catskills, southern
Greens, Berkshires

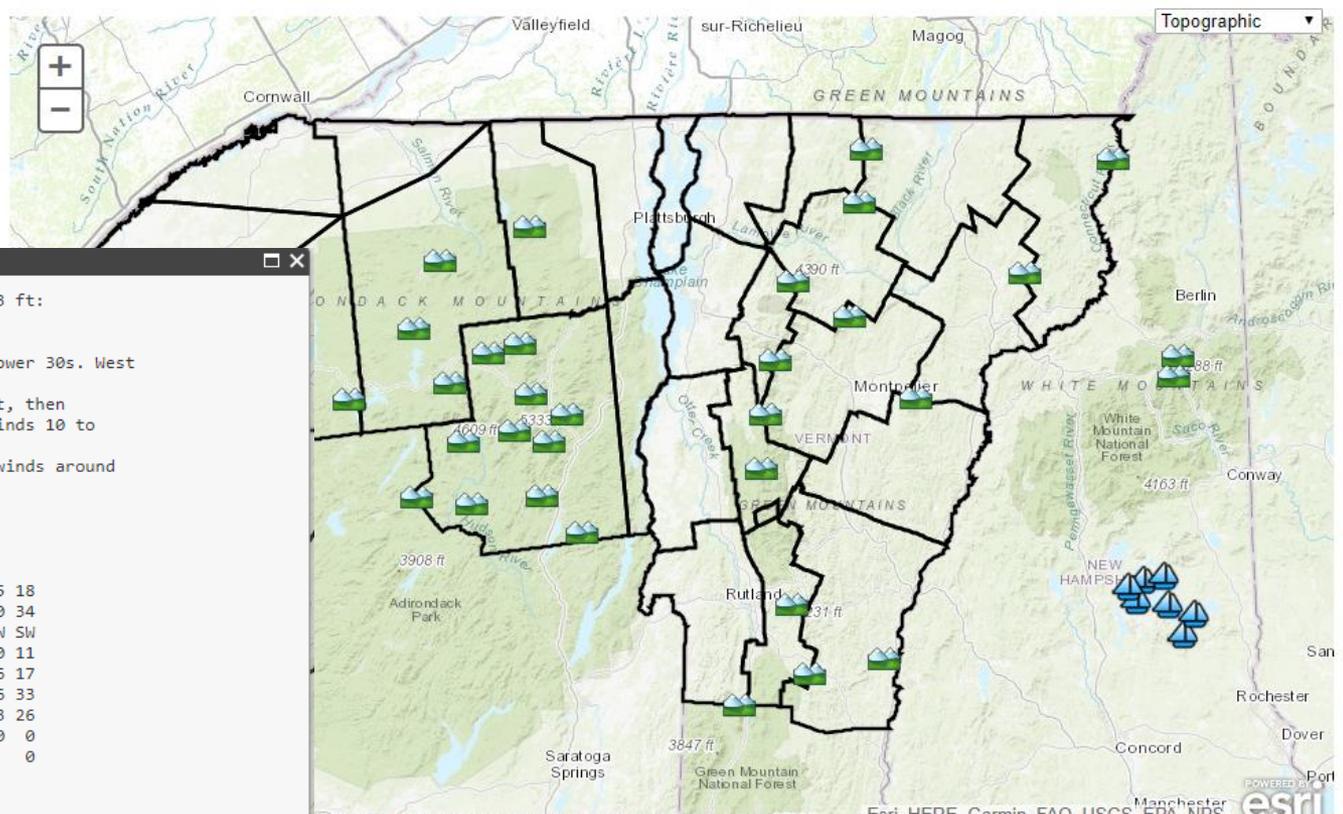
Mountain Point Forecasts

[Weather.gov](#) > [Burlington, VT](#) > Mountain Point Forecasts

Burlington, VT
Weather Forecast Office

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

Click an icon on the map to display the forecast for that location, or scroll down the page for text links to all the forecasts



PHARAOH MOUNTAIN

The forecast for Pharaoh Mountain, New York at 2,533 ft:
Last Updated at 259 AM EST Sat Feb 22 2020

.**TODAY**...Summits obscured in clouds. Highs in the lower 30s. West winds around 15 mph.
.**TONIGHT**...Summits obscured in clouds until midnight, then becoming mostly cloudy. Lows around 20. Southwest winds 10 to 15 mph.
.**SUNDAY**...Mostly sunny. Highs around 40. Southwest winds around 10 mph.

Detailed Forecast Data:

DATE	Sat 02/22/20					Sun 02/23/20							
TIME (EST)	06	09	12	15	18	21	00	03	06	09	12	15	18
TEMP (F)	18	23	28	30	26	26	24	22	21	27	37	40	34
WIND DIR	SW	W	W	W	W	W	SW						
WIND SPD (MPH)	12	13	13	13	12	11	10	9	9	9	9	10	11
WIND GST (MPH)	19	20	20	20	19	17	16	13	13	13	13	16	17
SKY COVER (%)	10	08	08	08	08	08	10	20	24	33	36	33	
WIND CHL (F)	5	11	17	19	15	15	14	12	11	18	30	33	26
PROP PRECIP (%)	3	3	2	2	2	2	1	0	0	0	0	0	0
SNOW AMT (IN)	0	0	0	0	0	0	0	0	0	0	0	0	0

[New detailed hourly forecast available here!](#)

Sky Cover Legend: IO = In and out of clouds, OB= Obscured in clouds, AB= Above the clouds



Open Forum





Thank You!

Dan Thompson

NWS Albany

Fire Weather Program Leader

dan.b.thompson@noaa.gov

Steve DiRienzo

NWS Albany

Warning Coordination Meteorologist

stephen.dirienzo@noaa.gov