

# March Conditions & Northeast DEWS Discussion

By: Samantha Borisoff, Climatologist  
Northeast Regional Climate Center

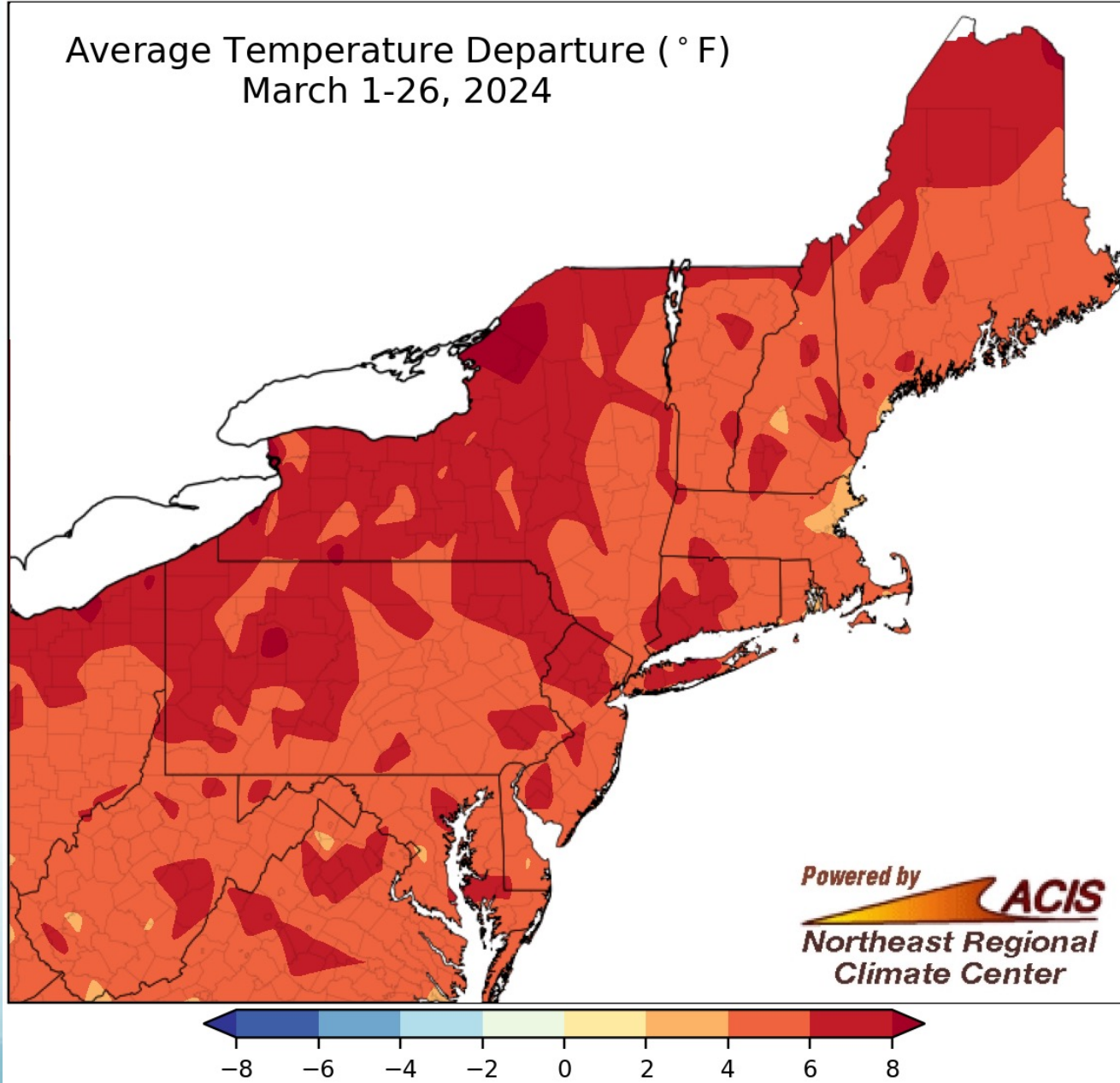


Northeast Regional  
Climate Center



# March Temperatures

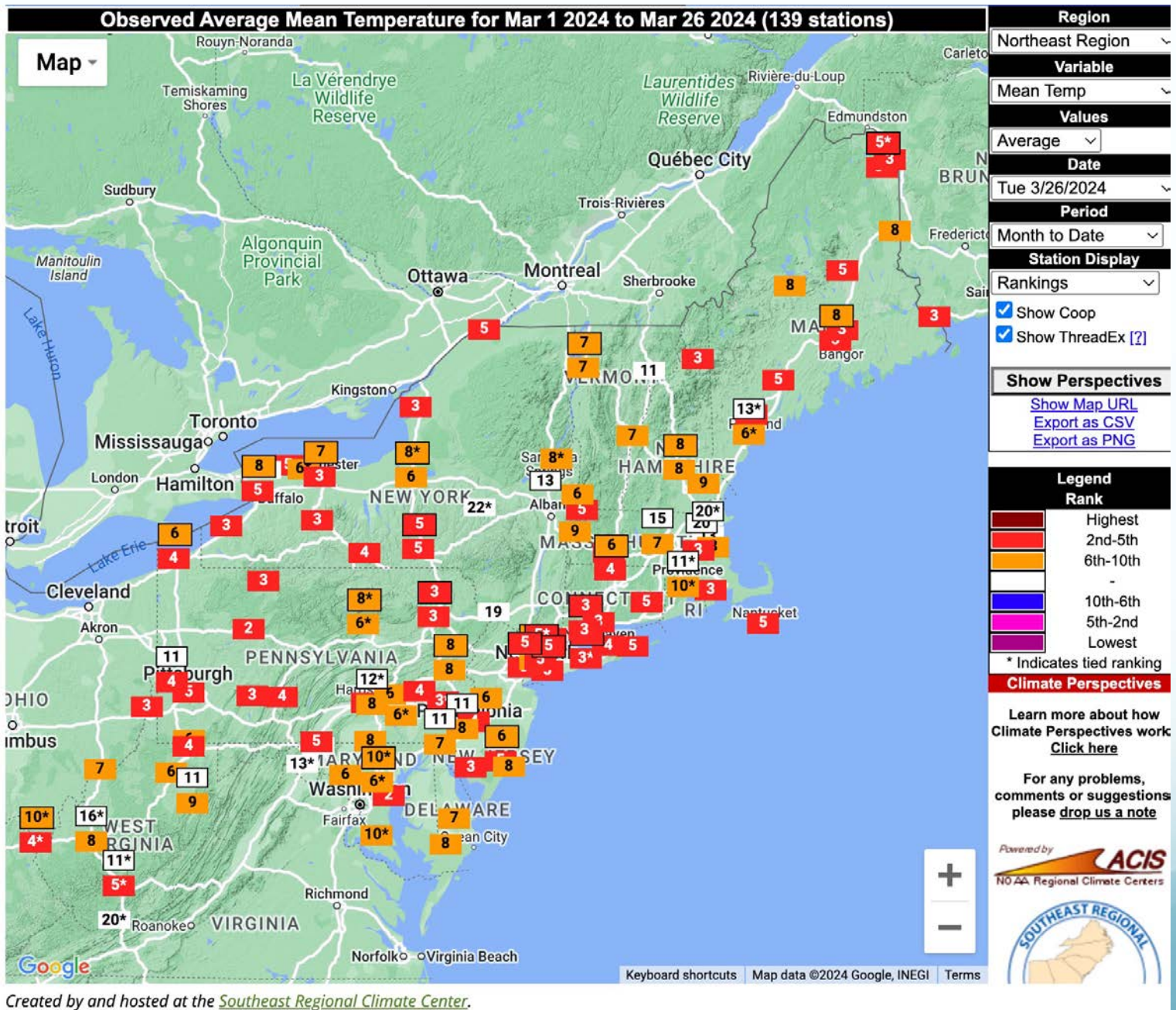
Average Temperature Departure ( ° F)  
March 1-26, 2024



From 2°F to more than 8°F above normal



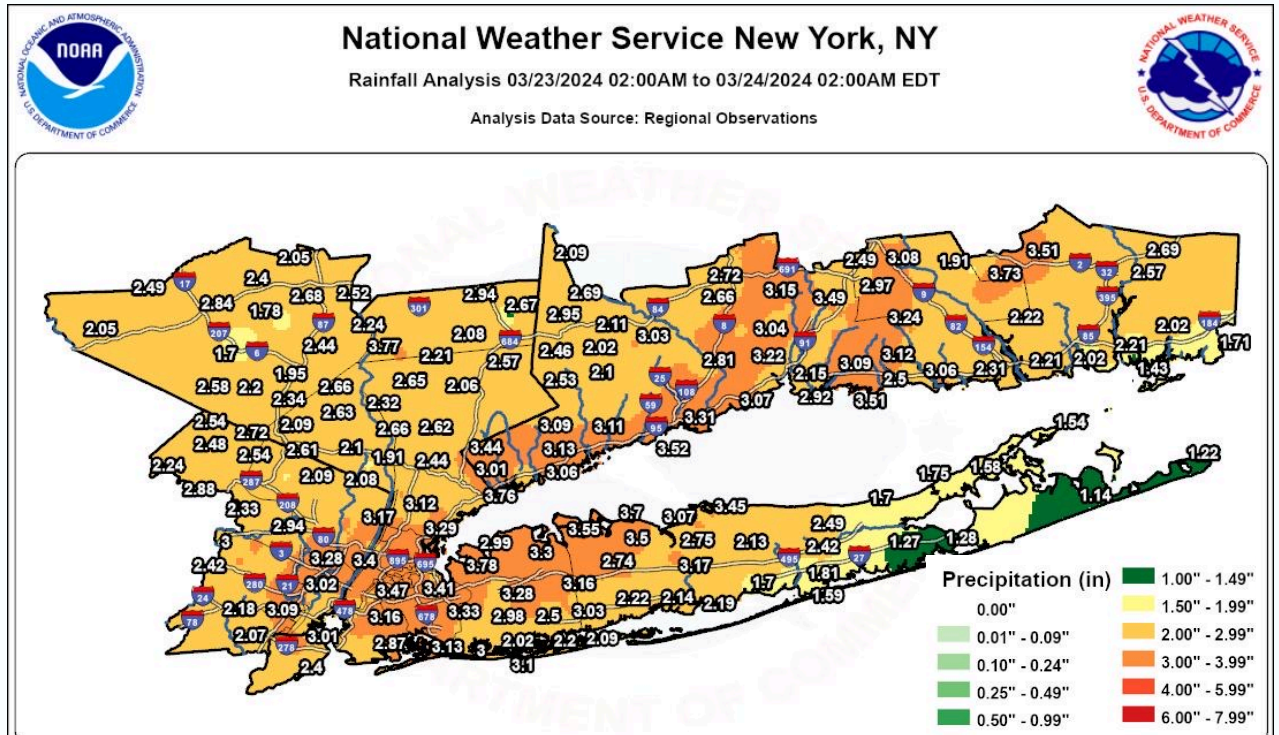
# March Temperatures



Created by and hosted at the [Southeast Regional Climate Center](#).

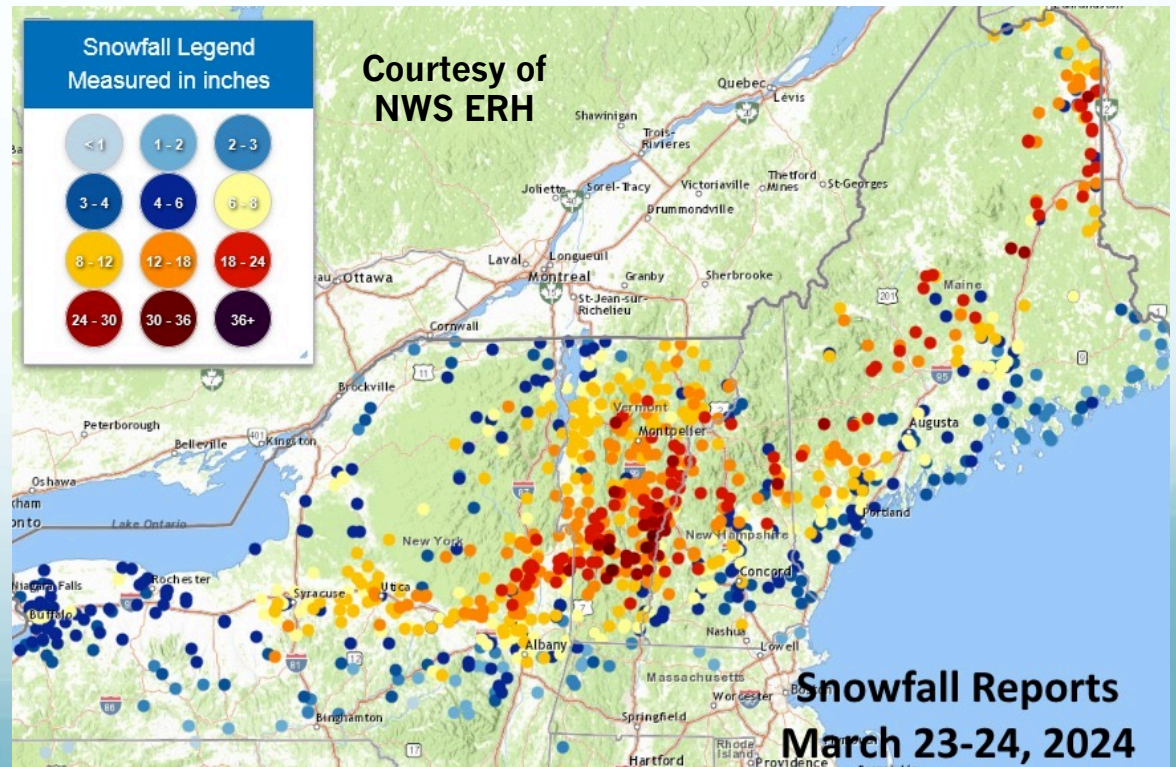
# March Storms

Station	Mar. 23 Precip	Rank (wettest March day)
Central Park, NY	3.66	3
LaGuardia Airport, NY	3.47	1
Bridgeport, CT	3.31	3
Kennedy Airport, NY	3.13	1
Newark, NJ	3.10	2
Philadelphia, PA	3.09	1
Wilmington, DE	2.81	2
Atlantic City, NJ	2.69	2
Concord, NH	2.43	2
Hartford, CT	2.24	6
Albany, NY	1.69	9

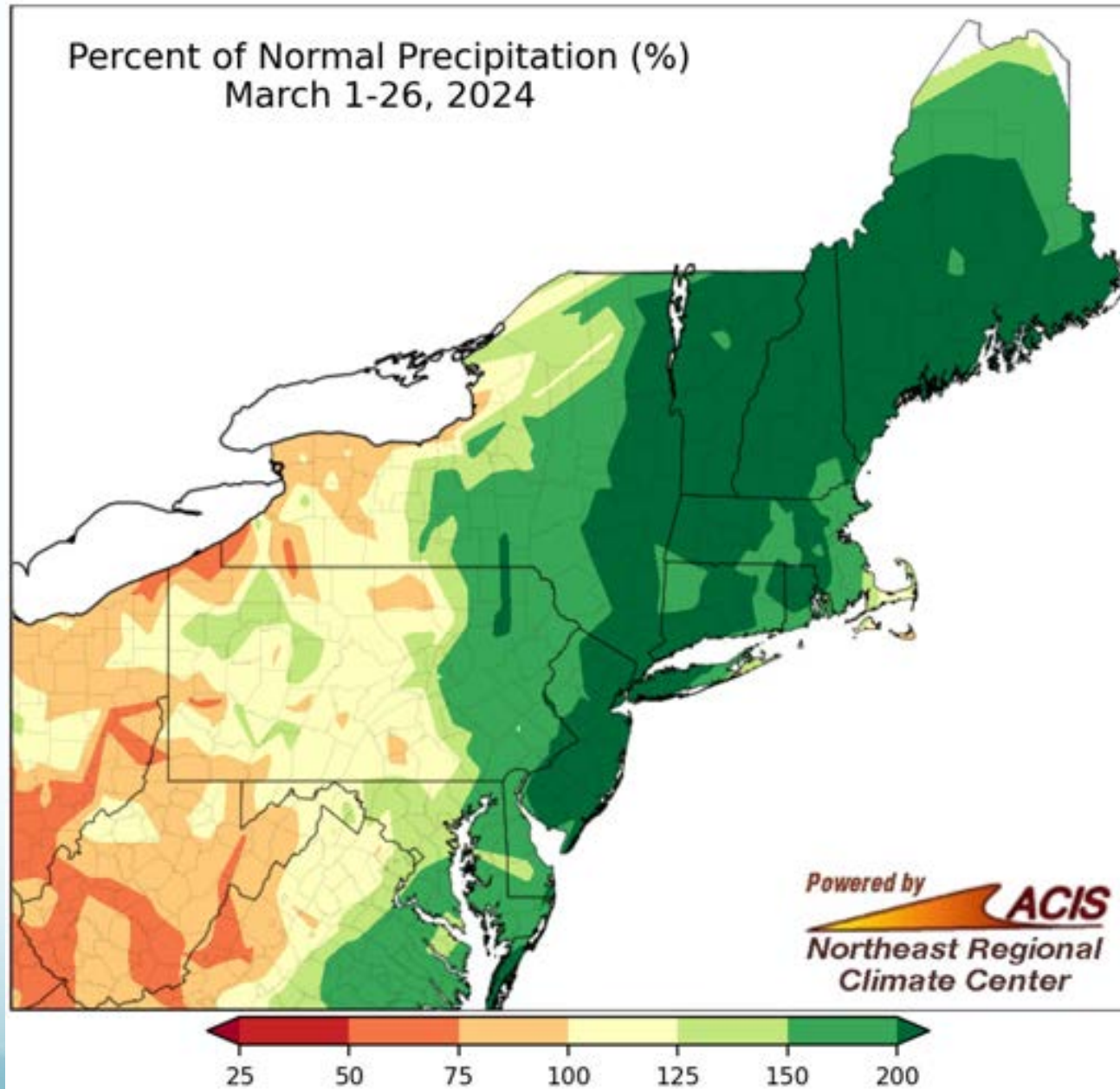


**Data for Burlington Area, VT (ThreadEx)**  
Click column heading to sort ascending, click again to sort descending.

Date	Snowfall
2024-03-23	8.6
2024-01-07	6.4
2024-01-16	5.0
2024-03-20	2.7
2023-11-21	2.4



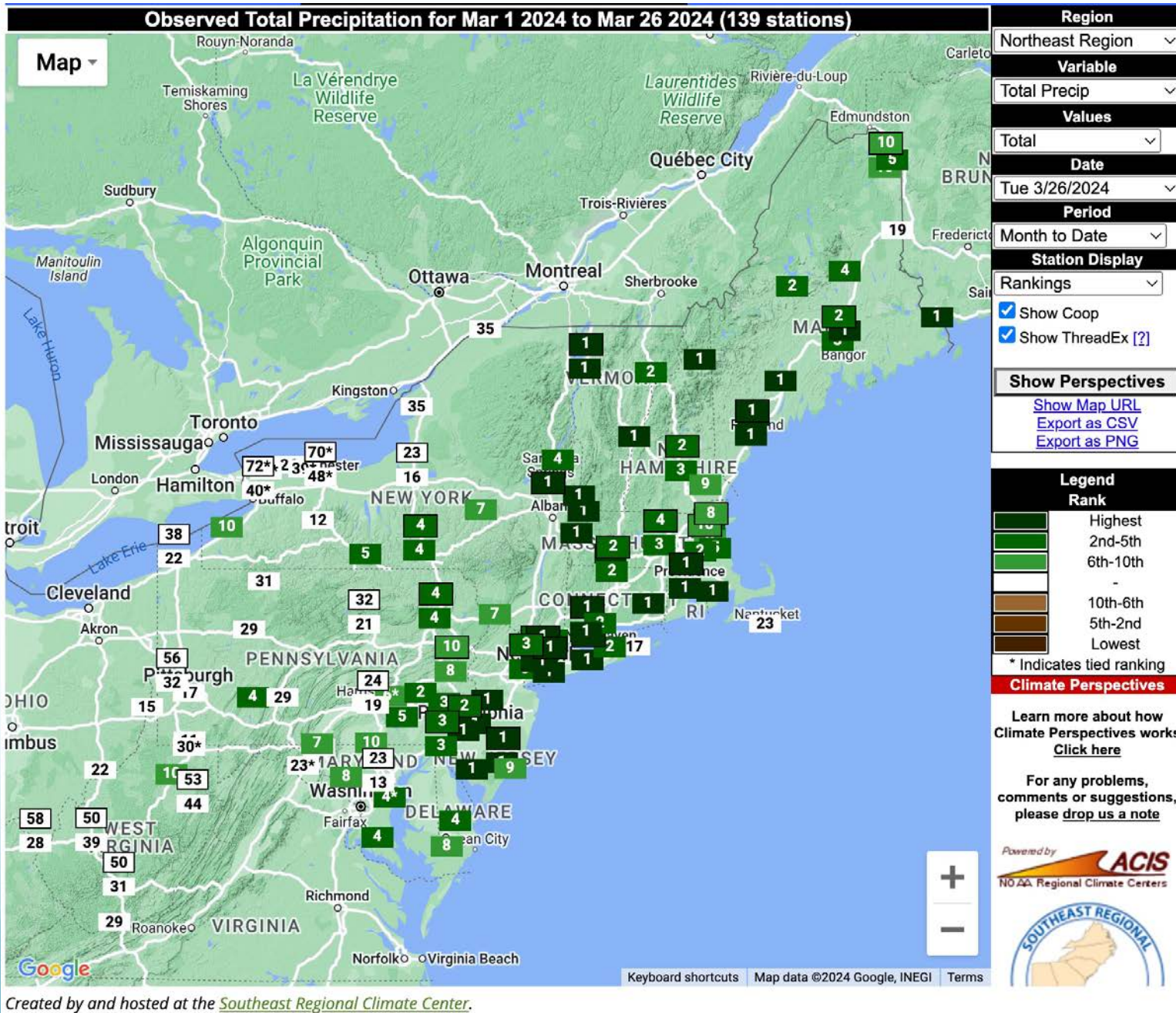
# March Precipitation



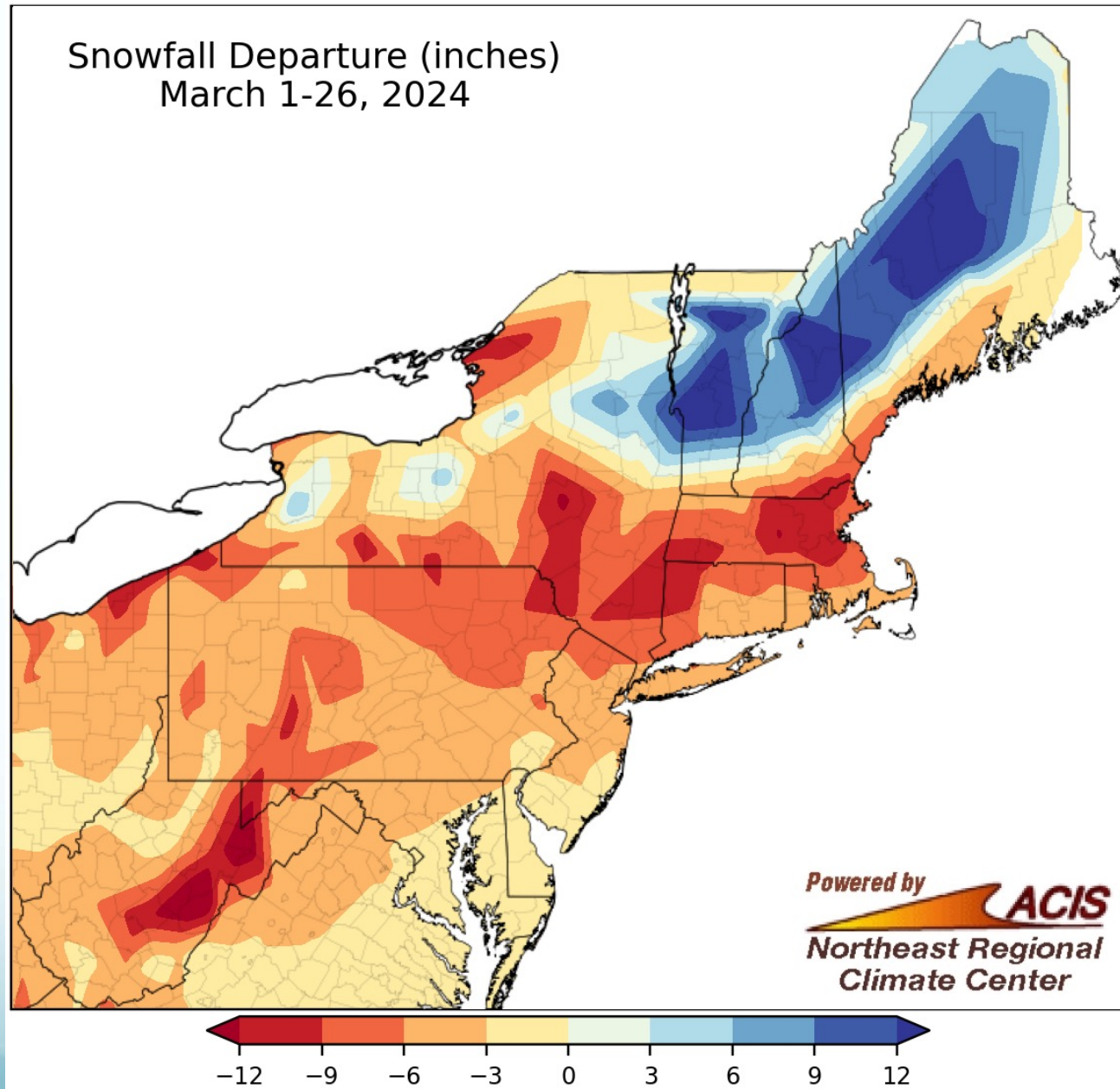
From 75% of normal to more than 200% of normal



# March Precipitation



# March Snowfall



From more than 12" below normal to more than 12" above normal

# Snowfall

## Accumulated Snowfall Departure from Normal

Green/black diamonds represent subsequent/missing values



(Click to hide/show lines)

— Caribou Area, ME (ThreadEx):Snow Dprt — Boston Area, MA (ThreadEx):Snow Dprt — Burlington Area, VT (ThreadEx):Snow Dprt  
— New York-Central Park Area, NY (ThreadEx):Snow Dprt — Syracuse Area, NY (ThreadEx):Snow Dprt — Erie Area, PA (ThreadEx):Snow Dprt

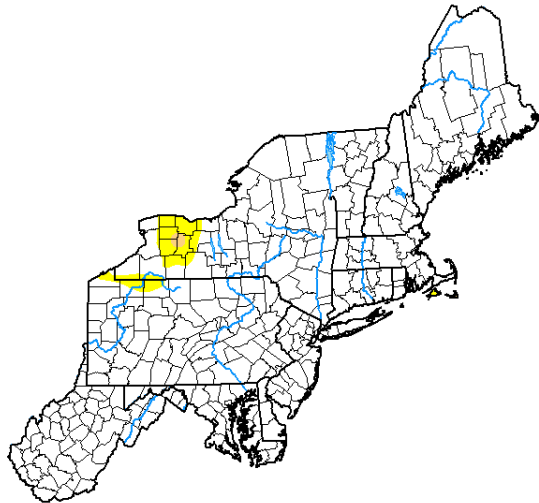
Powered by ACIS





# Drought Monitor

## U.S. Drought Monitor Northeast



**February 27, 2024**  
(Released Thursday, Feb. 29, 2024)  
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
<b>Current</b>	97.07	2.72	0.21	0.00	0.00	0.00
<b>Last Week</b> 02-20-2024	97.07	2.72	0.21	0.00	0.00	0.00
<b>3 Months Ago</b> 11-28-2023	74.36	19.18	5.76	0.71	0.00	0.00
<b>Start of Calendar Year</b> 01-02-2024	87.20	10.30	1.83	0.67	0.00	0.00
<b>Start of Water Year</b> 09-26-2023	88.48	10.08	1.36	0.08	0.00	0.00
<b>One Year Ago</b> 02-28-2023	94.27	5.73	0.00	0.00	0.00	0.00

Intensity:

None	D2 Severe Drought
D0 Abnormally Dry	D3 Extreme Drought
D1 Moderate Drought	D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

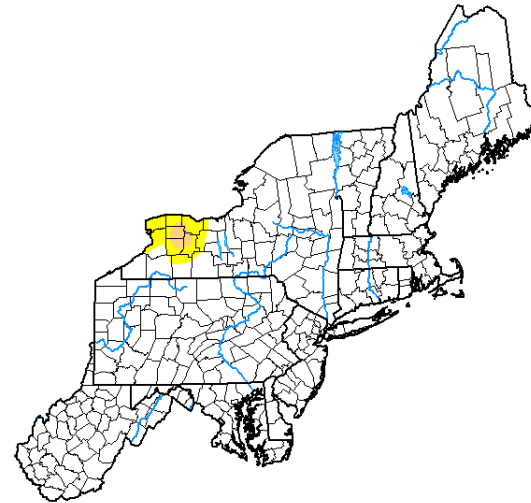
Author:

Richard Heim  
NCEI/NOAA



[droughtmonitor.unl.edu](http://droughtmonitor.unl.edu)

## U.S. Drought Monitor Northeast



**March 26, 2024**  
(Released Thursday, Mar. 28, 2024)  
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
<b>Current</b>	97.54	1.98	0.49	0.00	0.00	0.00
<b>Last Week</b> 03-19-2024	97.54	1.98	0.49	0.00	0.00	0.00
<b>3 Months Ago</b> 12-26-2023	85.18	11.44	2.71	0.68	0.00	0.00
<b>Start of Calendar Year</b> 01-02-2024	87.20	10.30	1.83	0.67	0.00	0.00
<b>Start of Water Year</b> 09-26-2023	88.48	10.08	1.36	0.08	0.00	0.00
<b>One Year Ago</b> 03-28-2023	92.34	6.36	1.30	0.00	0.00	0.00

Intensity:

None	D2 Severe Drought
D0 Abnormally Dry	D3 Extreme Drought
D1 Moderate Drought	D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

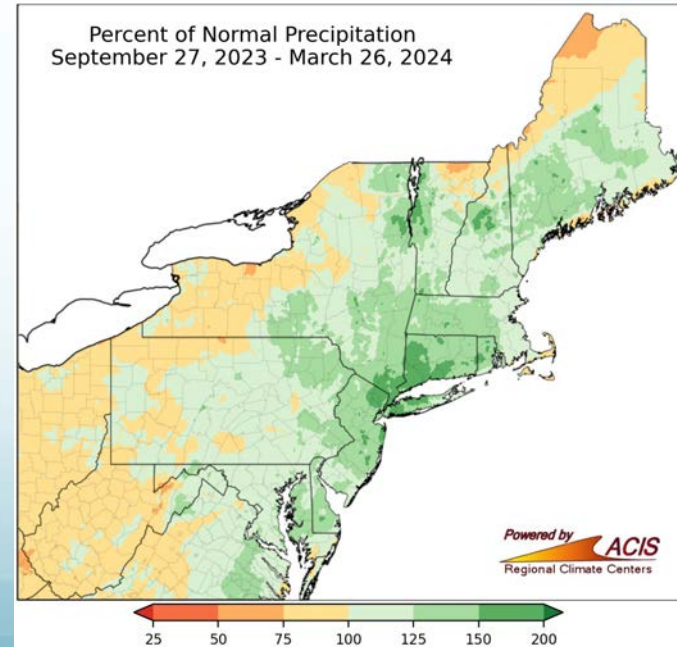
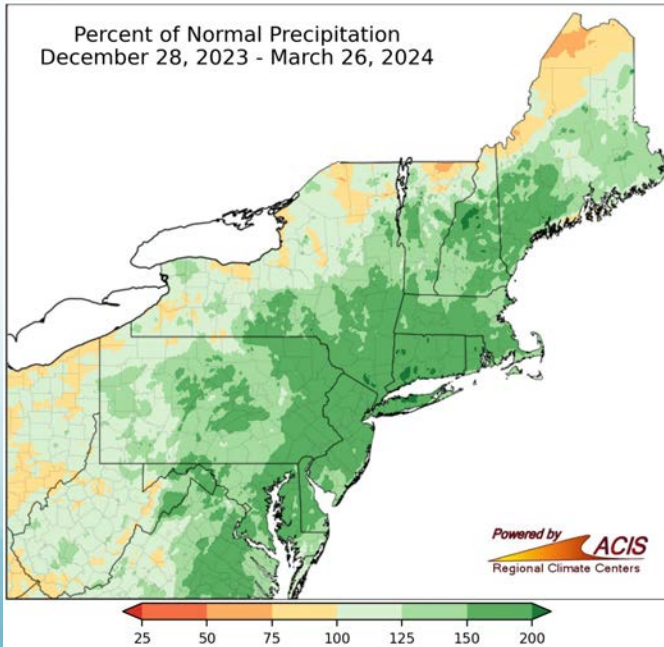
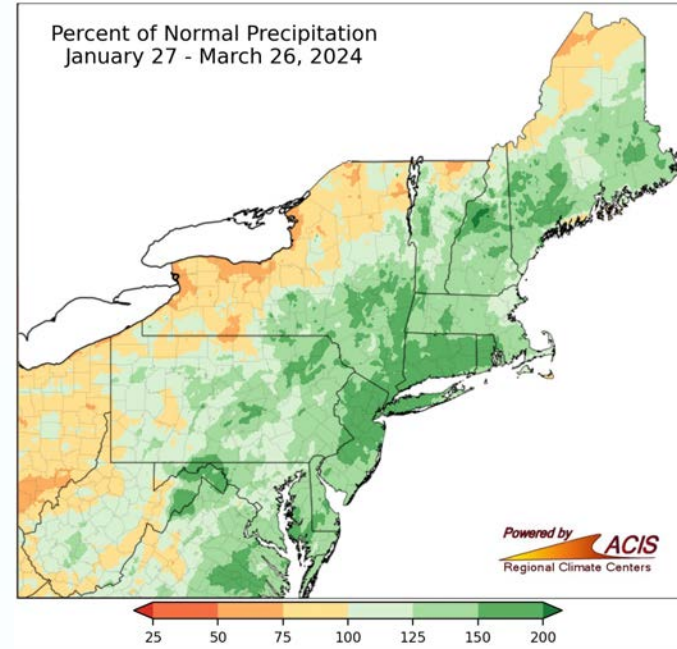
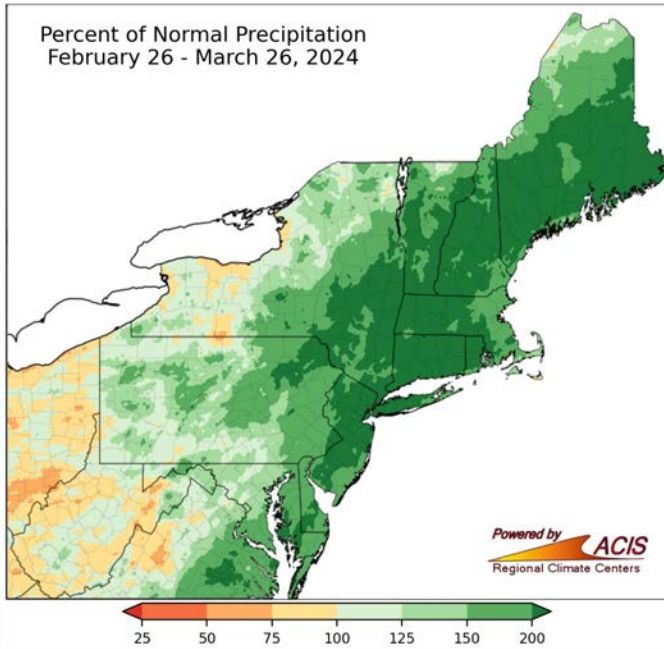
Brad Rippey  
U.S. Department of Agriculture



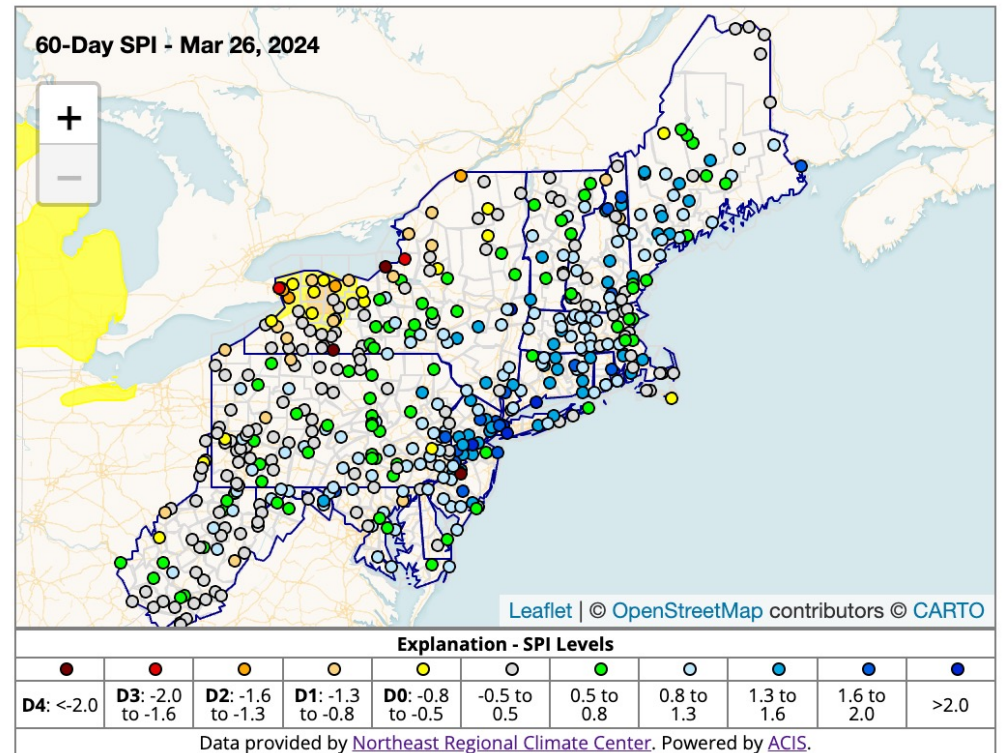
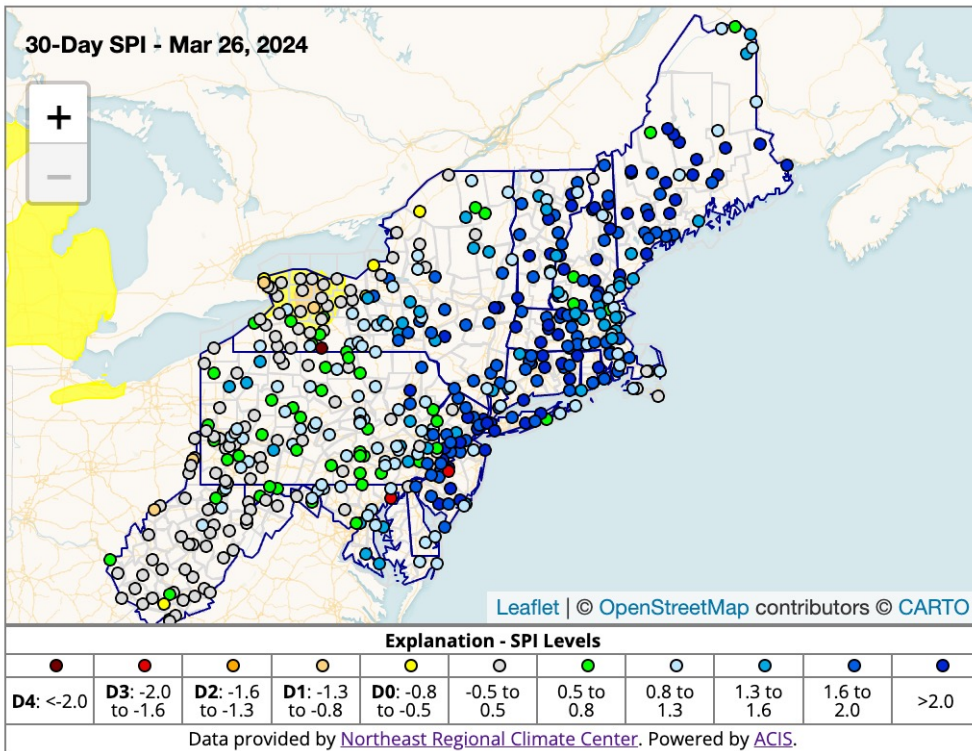
[droughtmonitor.unl.edu](http://droughtmonitor.unl.edu)



# Precipitation



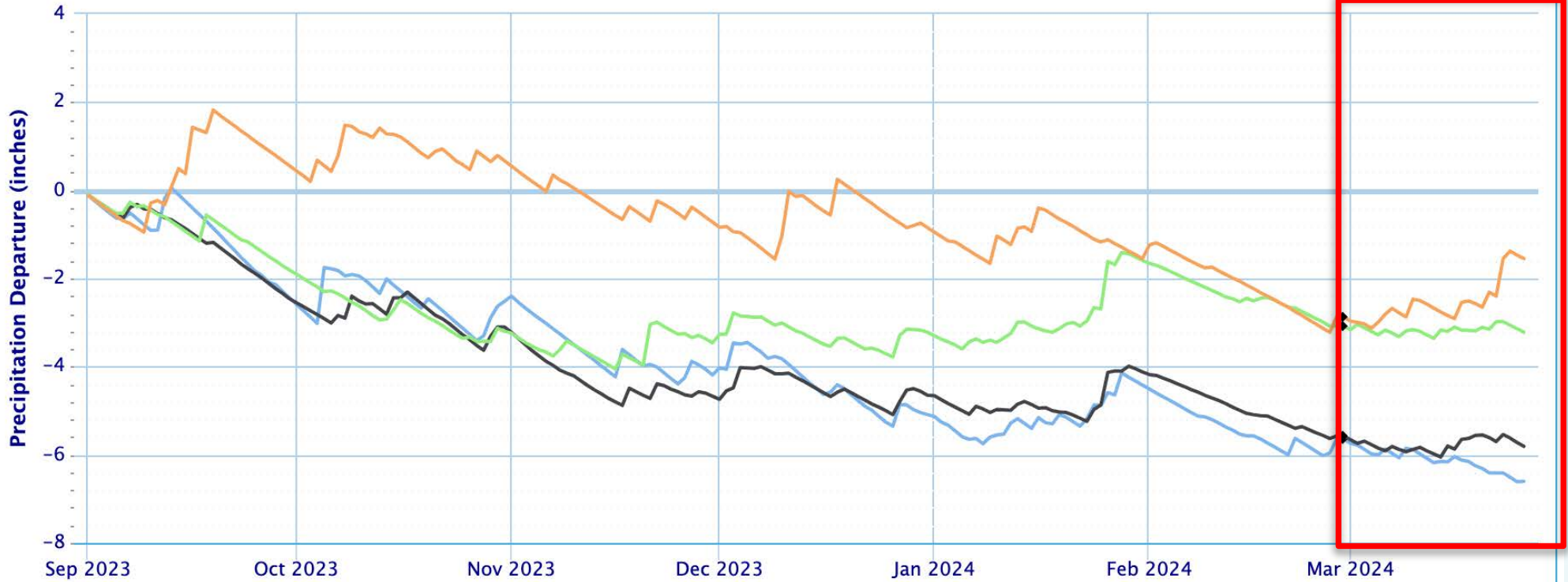
# Standardized Precipitation Index



# Precipitation

## Accumulated Precipitation Departure from Normal

Green/black diamonds represent subsequent/missing values



(Click to hide/show lines)

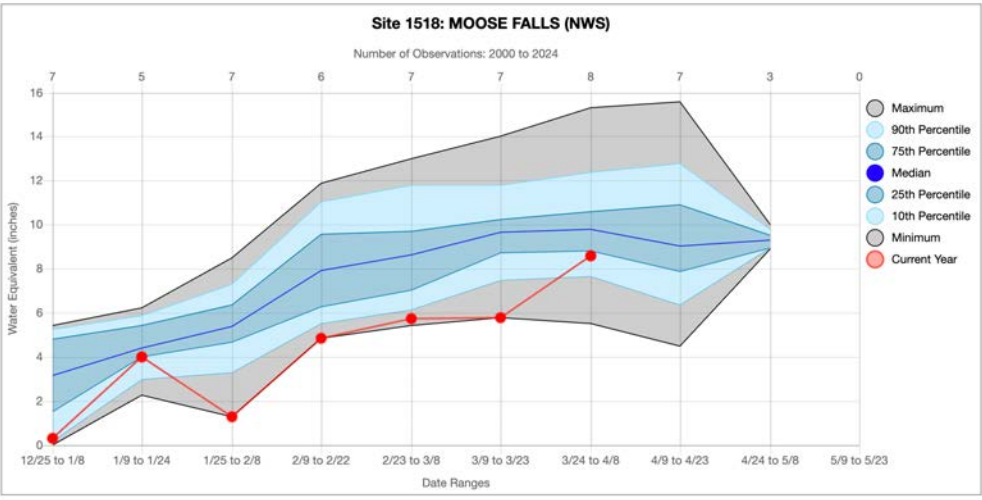
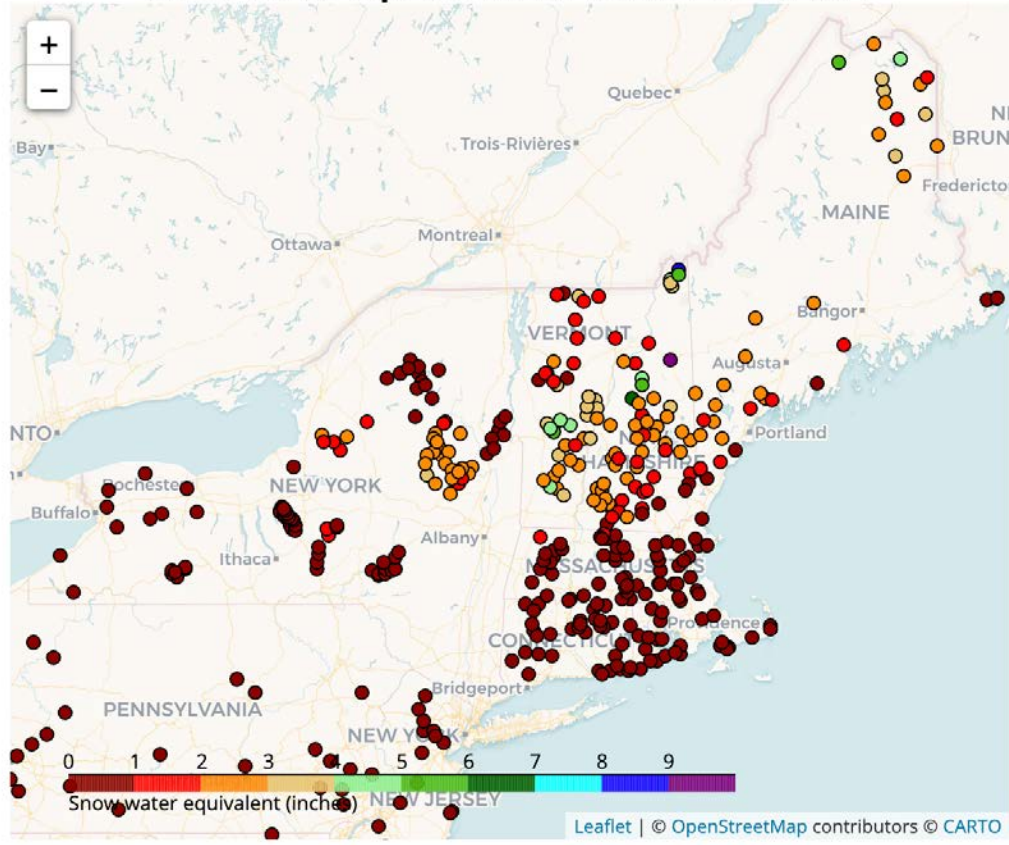
- Erie Area, PA (ThreadEx):Precip Dprt
- SILVER SPRINGS 3N, NY:Precip Dprt
- Rochester Area, NY (ThreadEx):Precip Dprt
- Caribou Area, ME (ThreadEx):Precip Dprt

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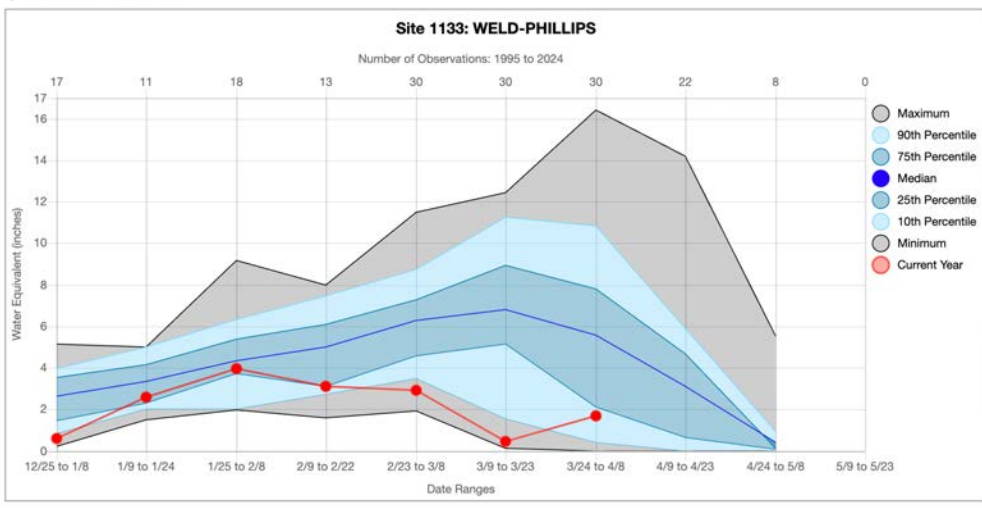


# SWE

## Snow Water Equivalent for March 23-27, 2024



Updated: March 27, 2024



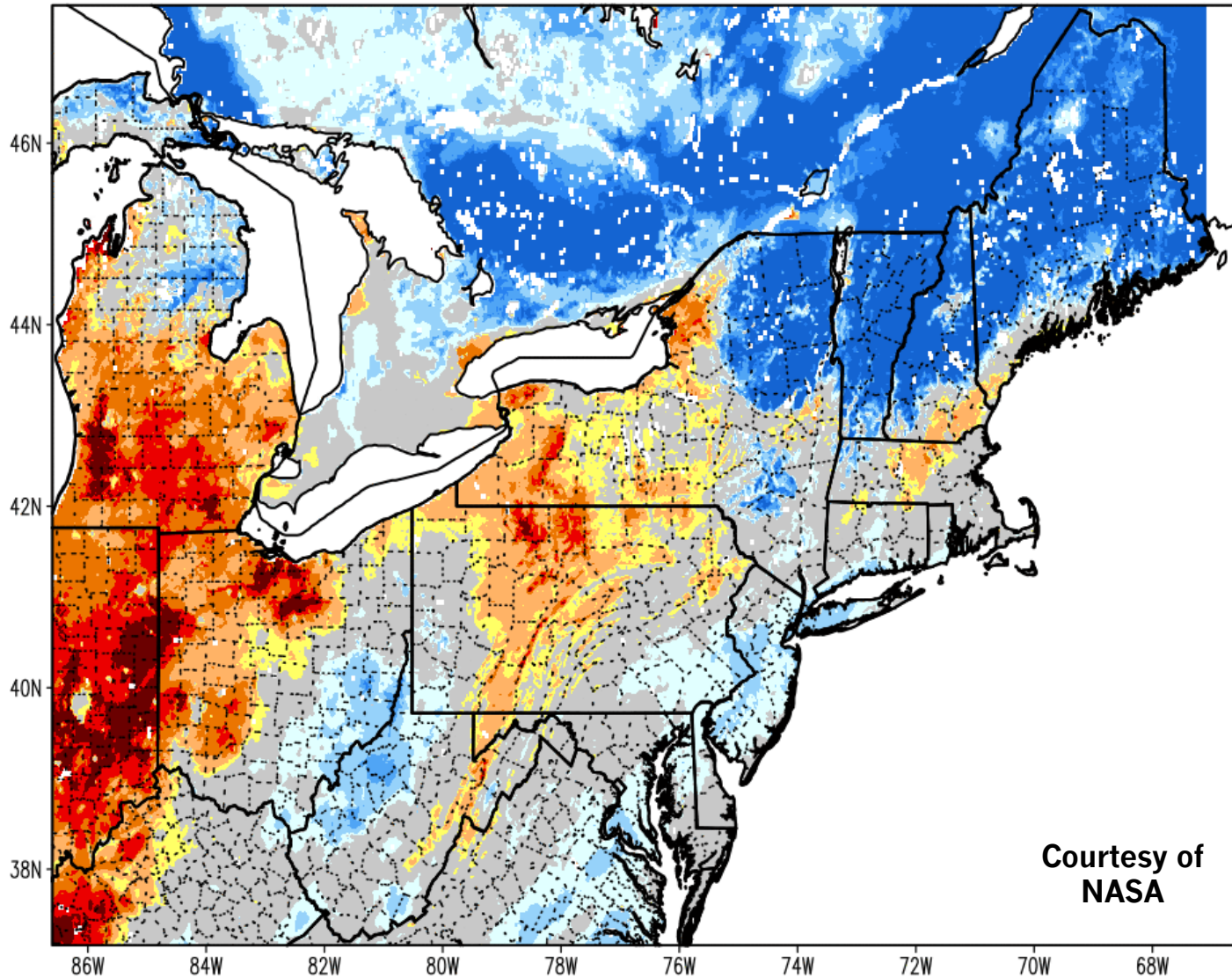
Updated: March 27, 2024

Graphs courtesy of Maine Geological Survey



# Soil Moisture

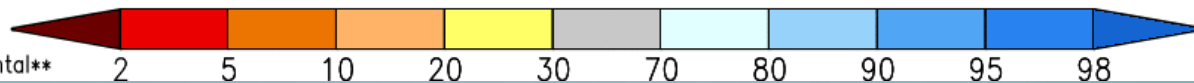
SPoRT-LIS 0-100 cm Soil Moisture percentile valid 28 Mar 2024



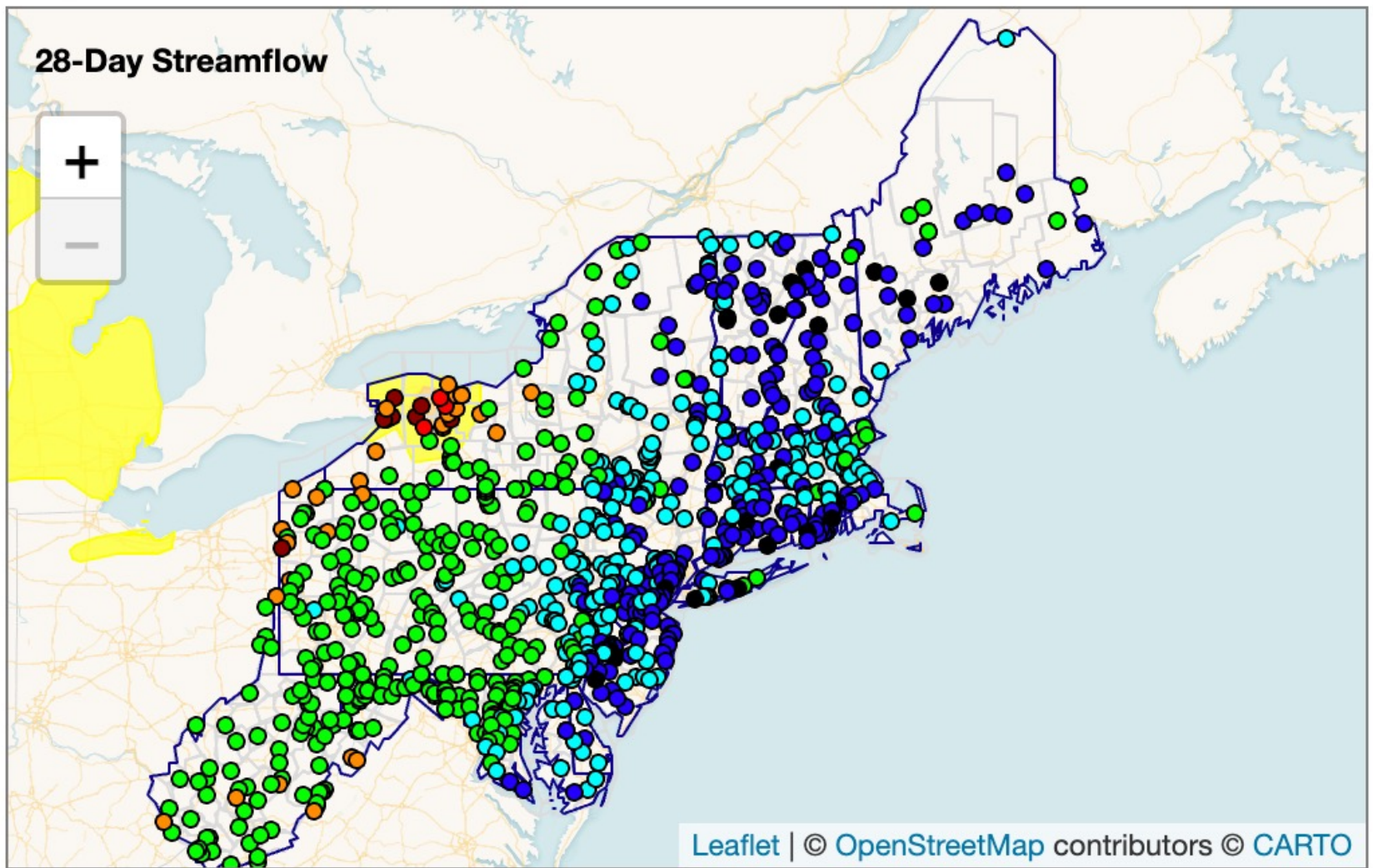
Courtesy of  
NASA



**\*\*NOTE\*\***  
**\*\*Experimental\*\***



# Streamflow



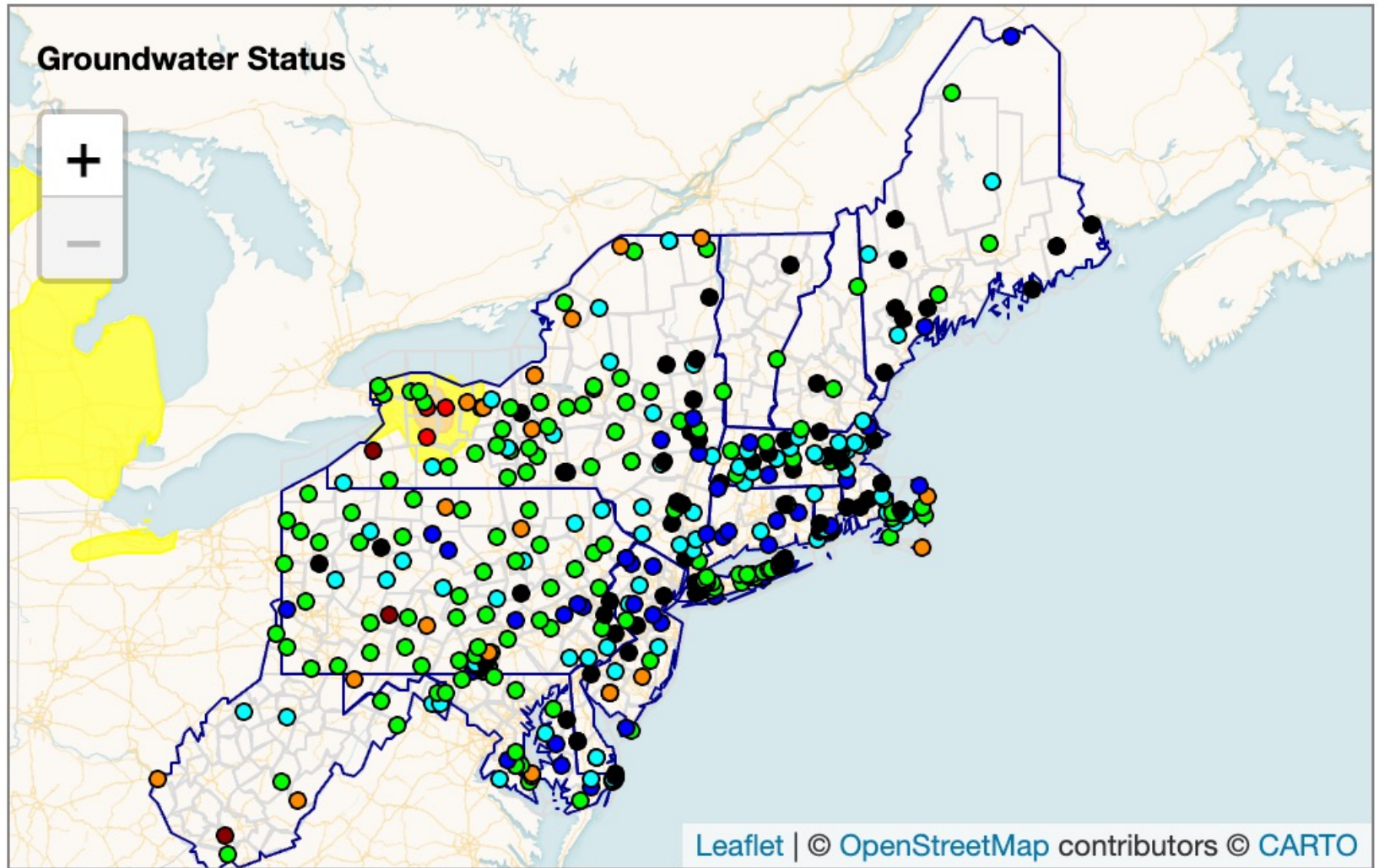
## Explanation - Percentile Classes

Low	Much below normal	Below normal	Normal	Above normal	Much above normal	High	
	<10%	10-24%	25-75%	76-90%	>90%		

Data provided by [USGS WaterWatch - Streamflow](#); updated 2024-03-27.



# Groundwater



## Explanation - Percentile Classes

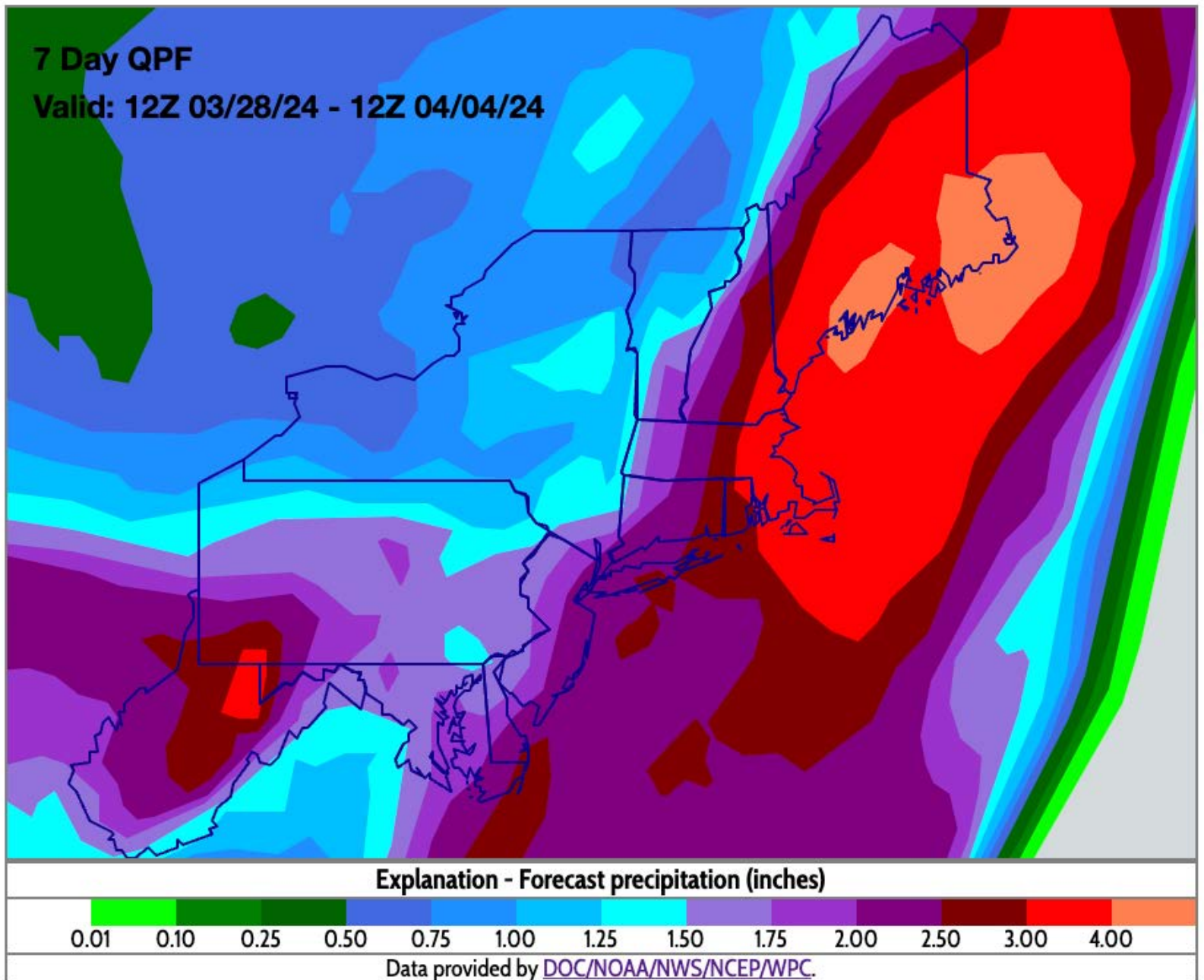
Low	Much below normal	Below normal	Normal	Above normal	Much above normal	High	
	<10%	10-24%	25-75%	76-90%	>90%		

Data provided by [USGS Groundwater](#) - [About this map](#); updated 2024-03-27.

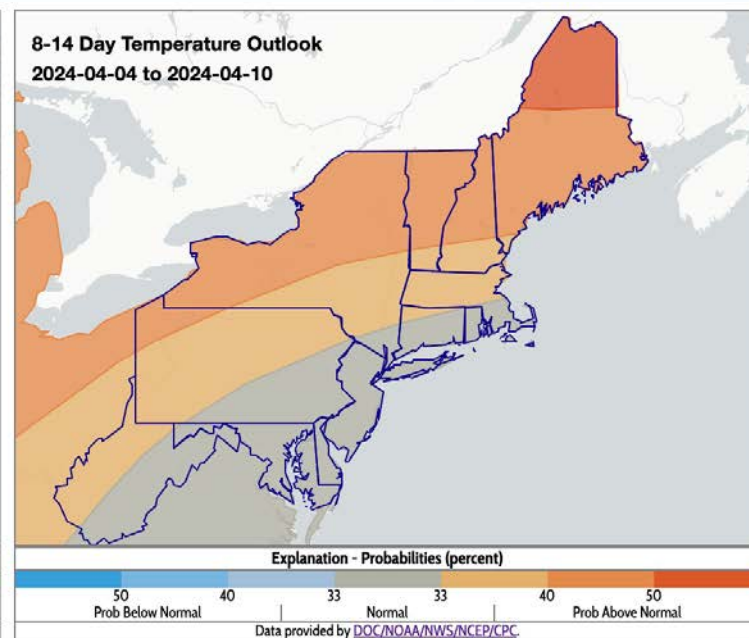
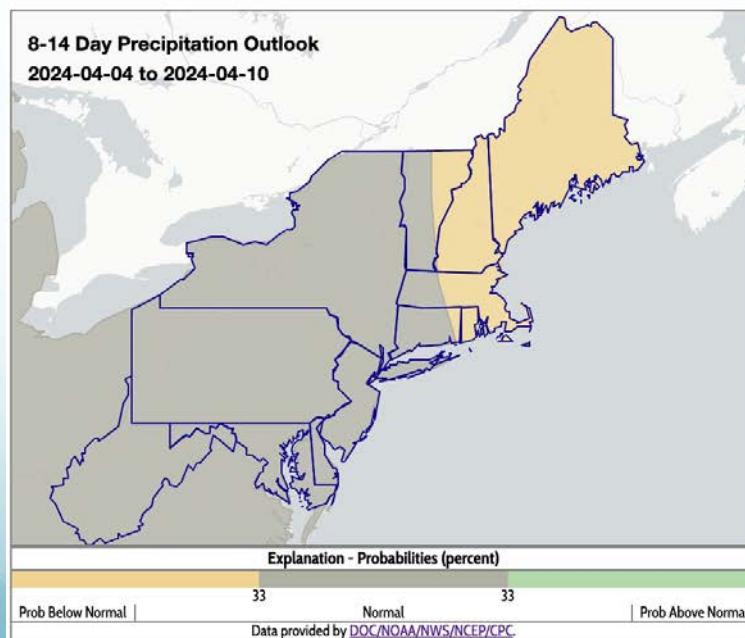
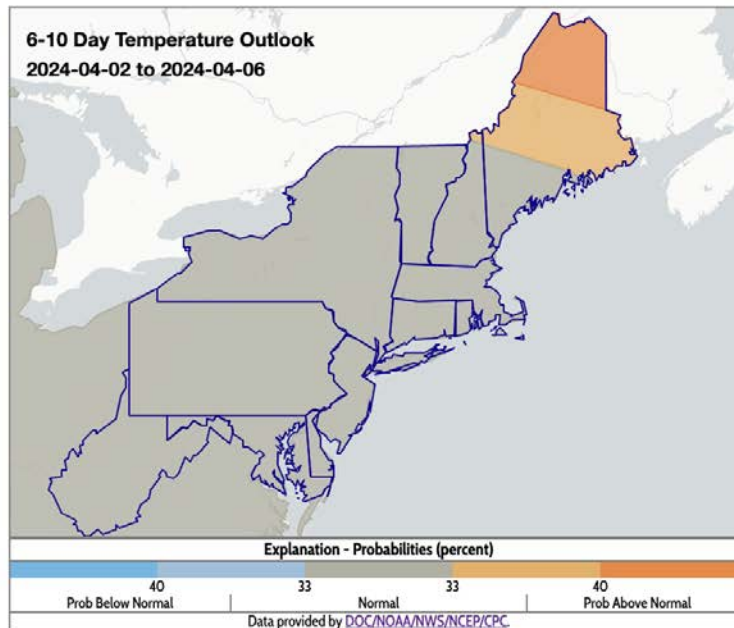
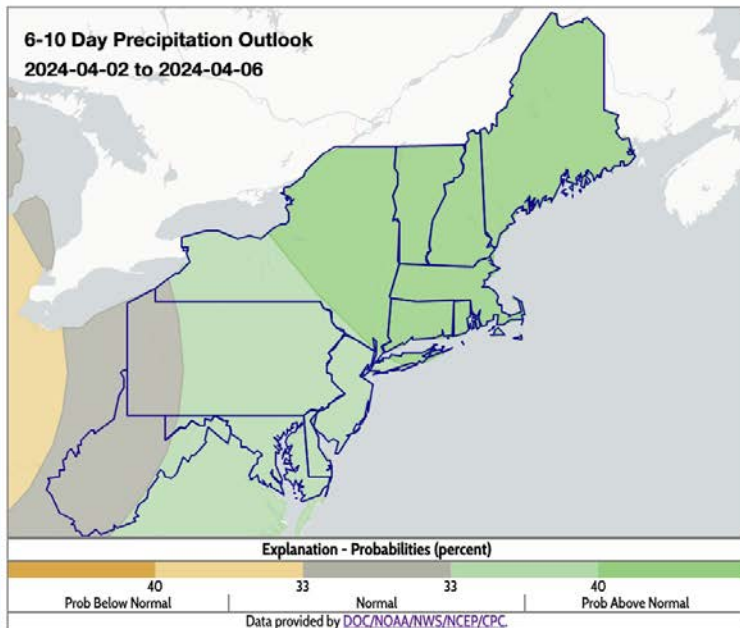




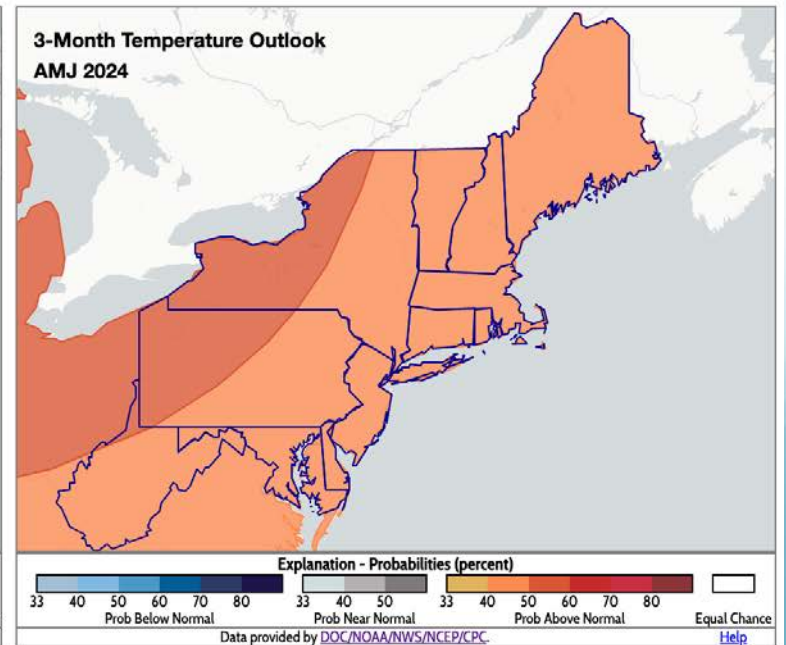
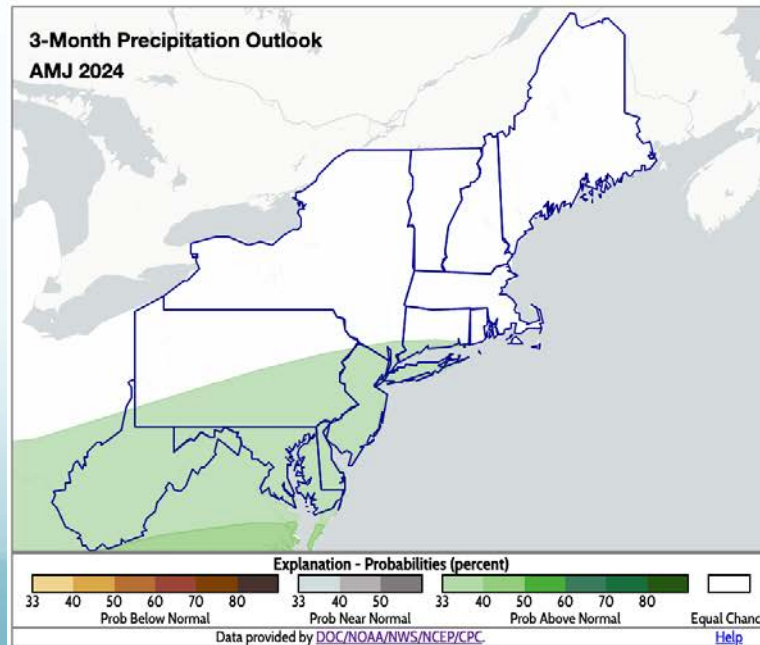
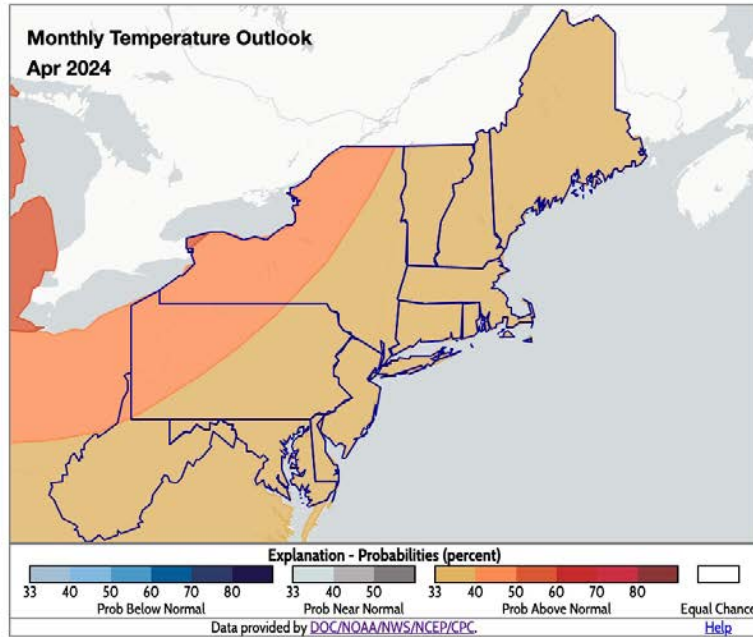
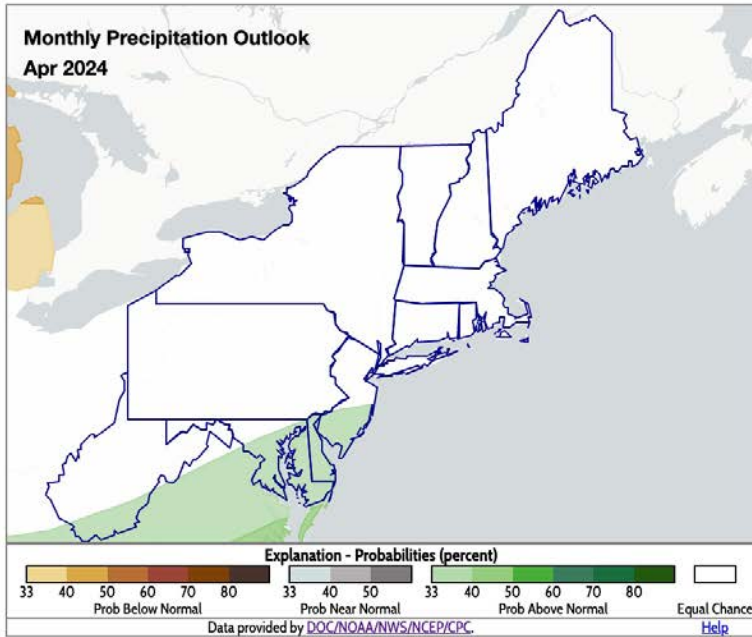
# Precipitation Forecast



# Short-term Outlooks



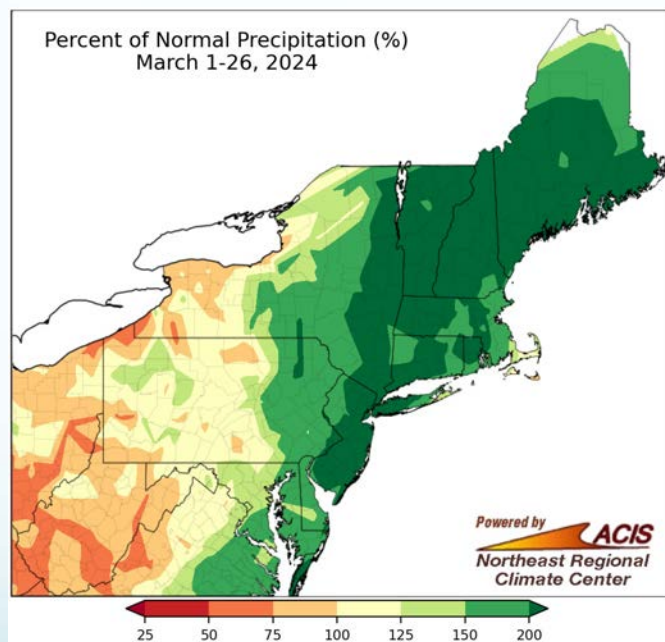
# Monthly & 3-Month Outlooks



# Summary

## March-to-date conditions:

- Above-normal temperatures for the region
- Above-normal precipitation for most, except drier in some interior areas
- Below-normal snowfall for many; above-normal for northern New England



## Drought:

- Abnormal dryness improved in northwestern Pennsylvania
- Slight expansion of moderate drought and abnormal dryness in western New York; moderate drought persists on Nantucket

## Outlooks:

- Short-term: near- or above-normal precipitation for 6-10 day; below- or near-normal precipitation for 8-14 day; near- or above-normal temperatures for both time periods
- Apr and Apr-June: above-normal precipitation for some southern areas and above-normal temperatures for all



# Contact Information

- [nrcc@cornell.edu](mailto:nrcc@cornell.edu)

## Upcoming Webinars

- Tuesday, April 30 at 9:30am EDT
  - Ocean Warming and Marine Impacts
- Thursday, May 30 at 9:30am EDT
  - National Water Model & Flood Inundation Mapping
- Thursday, June 27 at 9:30am EDT
  - Dept. of Transportation Resiliency Projects



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