January Review & Northeast DEWS Discussion

By: Samantha Borisoff, Climatologist
Northeast Regional Climate Center

Northeast Regional Climate Center

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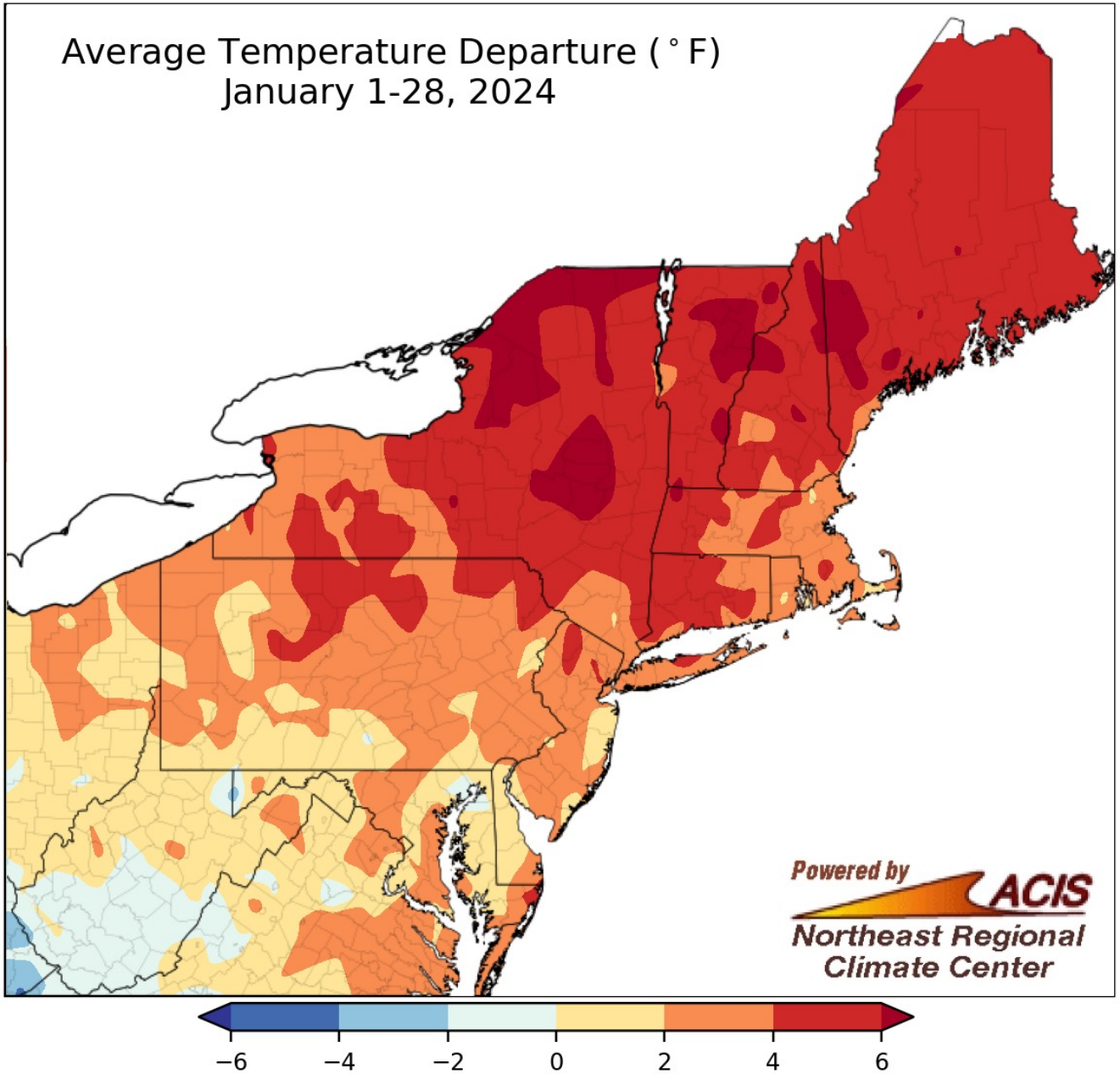
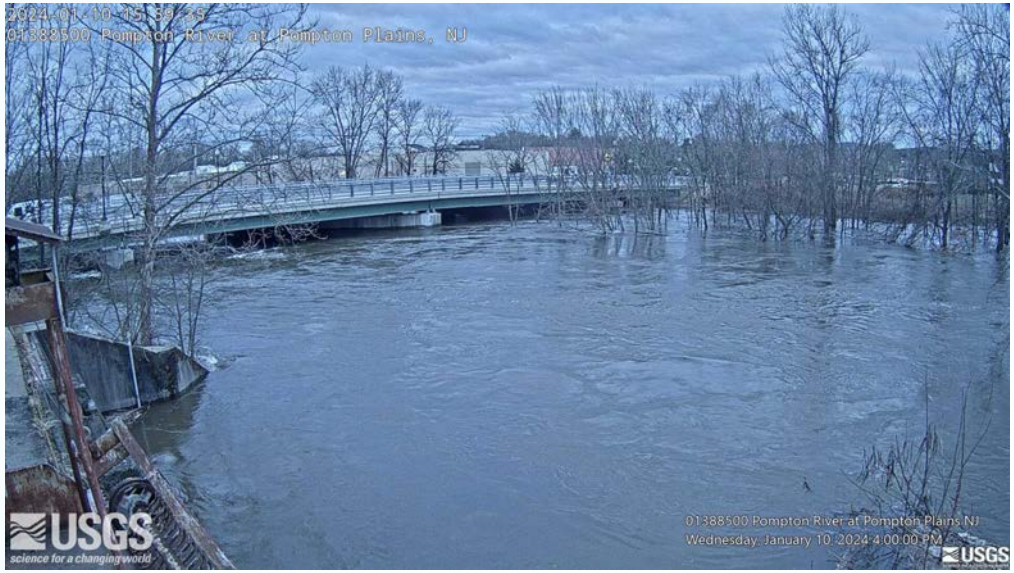
NOAA
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
U.S. DEPARTMENT OF COMMERCE

January Temperatures

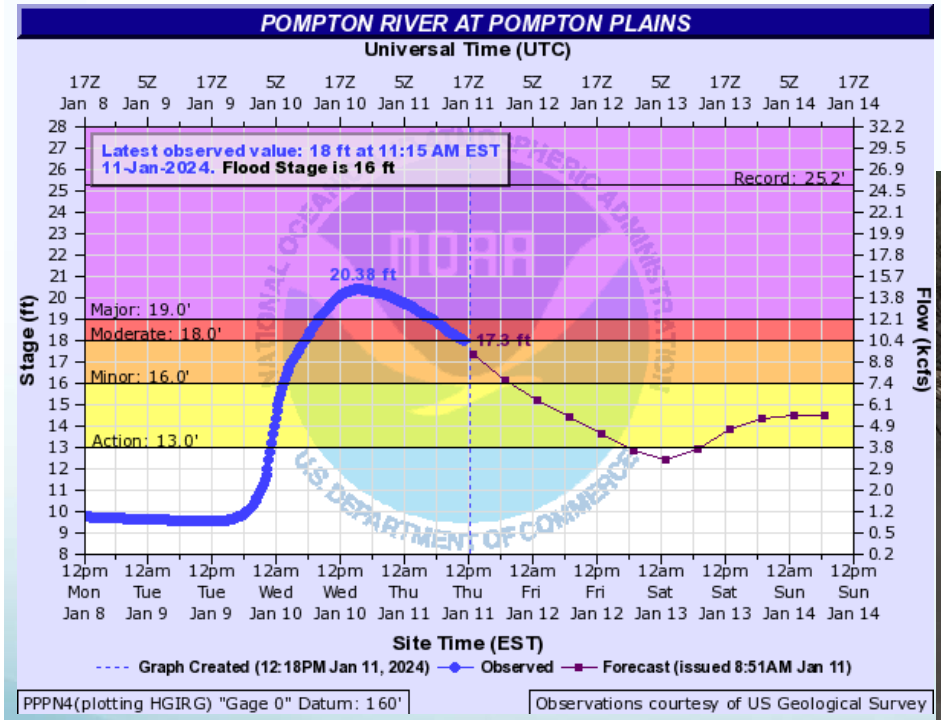


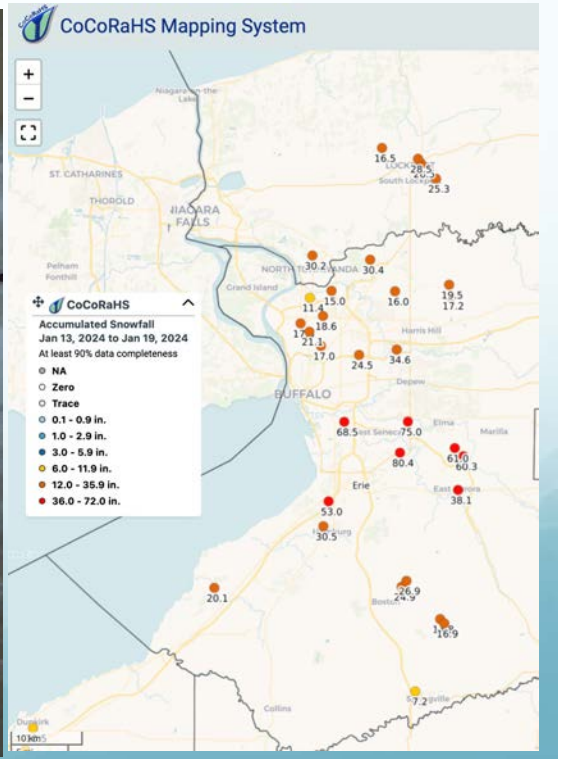
From 2°F below normal to more than 6°F above normal

January Storms



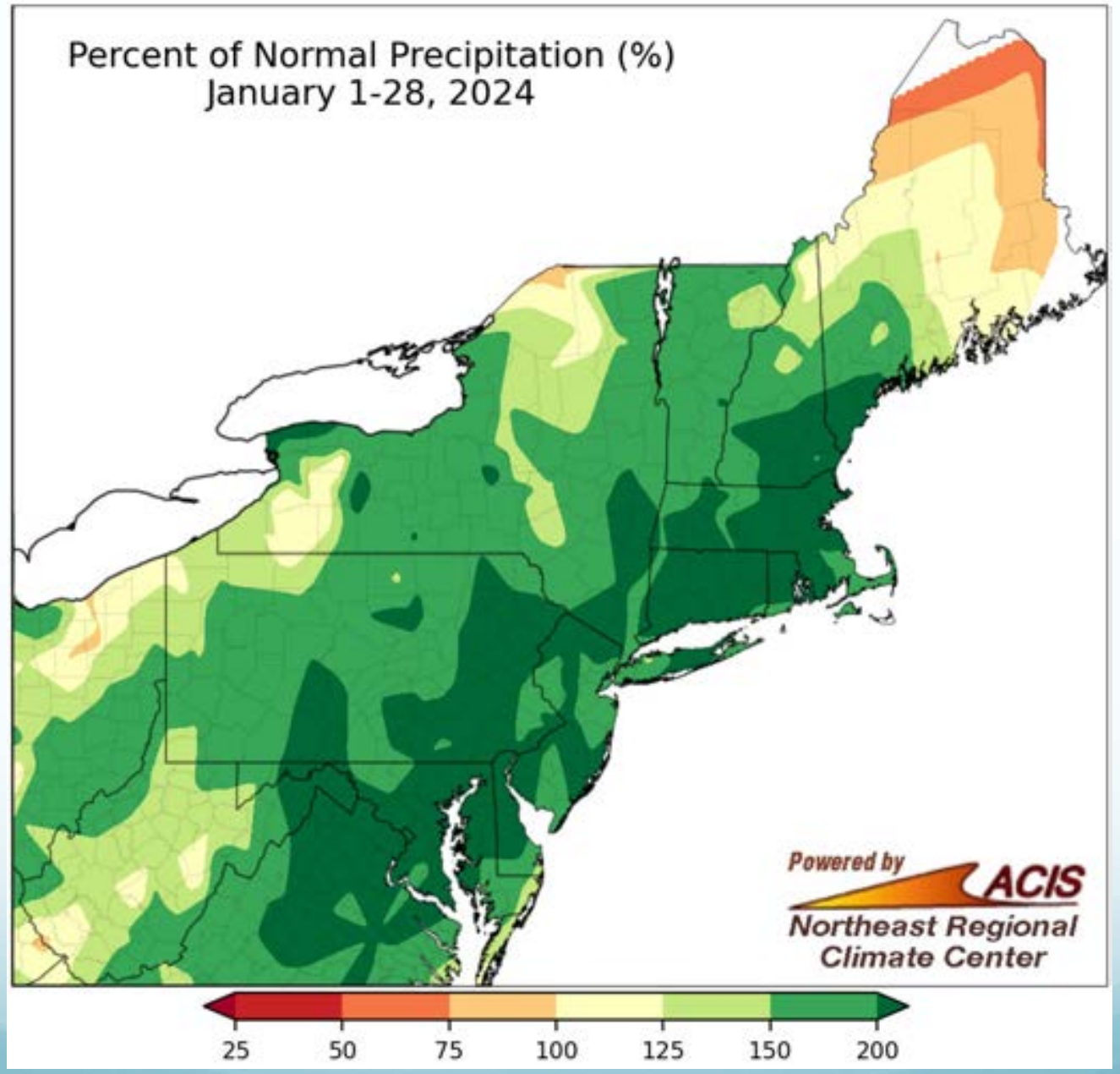
Courtesy of NWS PHI





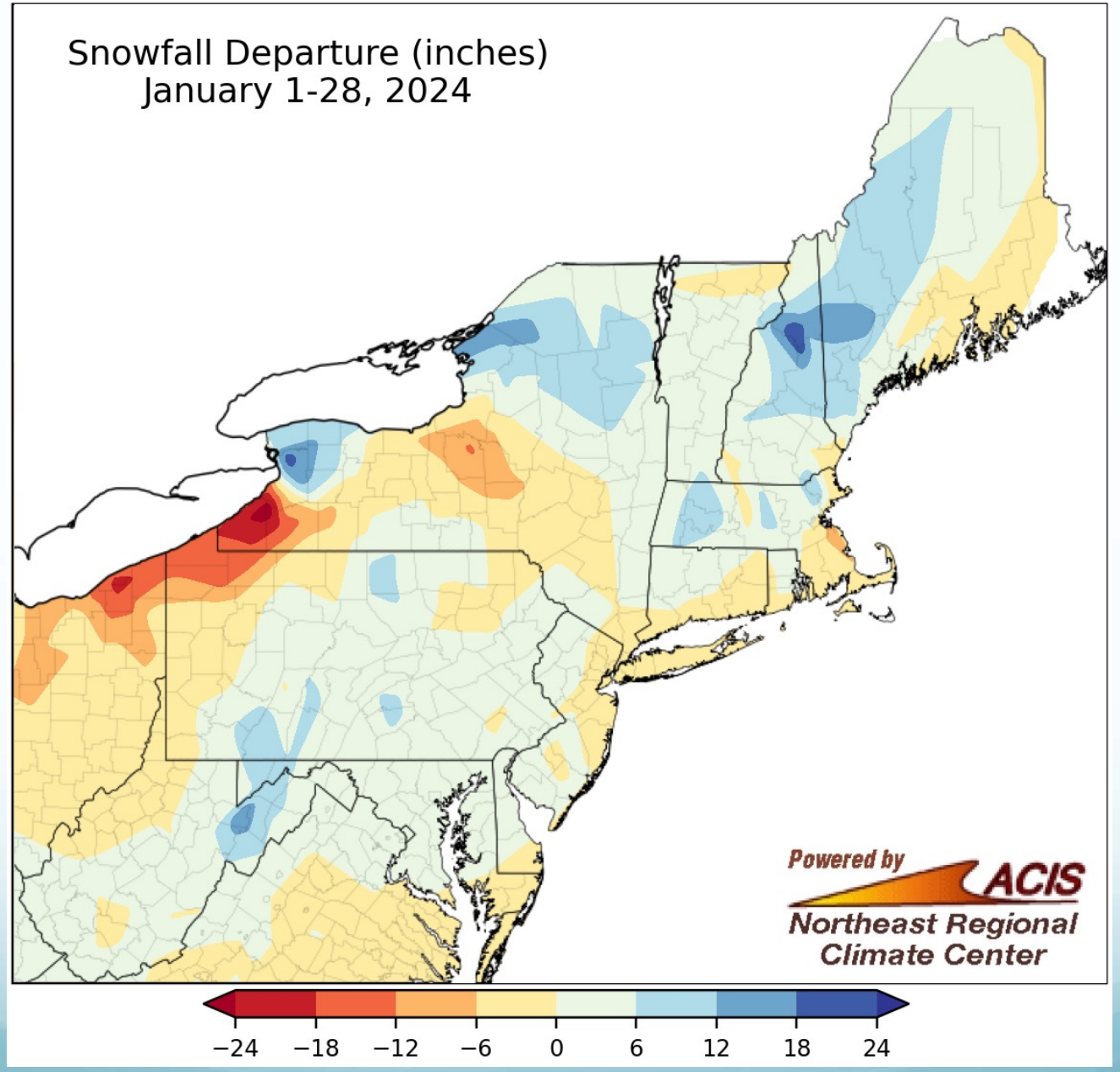
Courtesy of Jason Alumbaugh

January Precipitation



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

January Snowfall

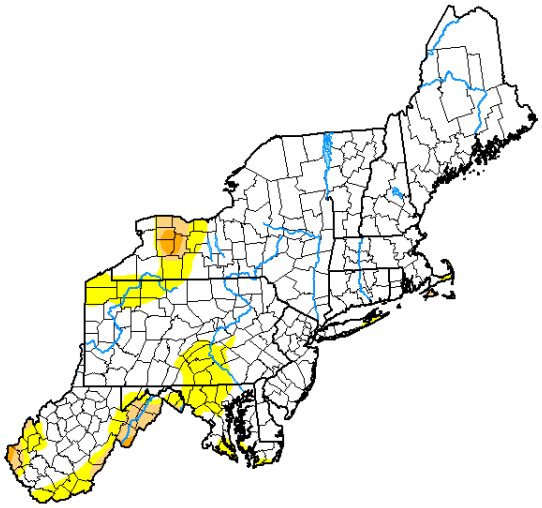


From 24” below normal to 18” above normal

Drought Monitor

U.S. Drought Monitor

Northeast



December 26, 2023

(Released Thursday, Dec. 28, 2023)

Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	85.18	11.44	2.71	0.68	0.00	0.00
Last Week 12-19-2023	83.93	12.68	2.71	0.68	0.00	0.00
3 Months Ago 09-26-2023	88.48	10.08	1.36	0.08	0.00	0.00
Start of Calendar Year 01-03-2023	90.64	9.16	0.21	0.00	0.00	0.00
Start of Water Year 09-26-2023	88.48	10.08	1.36	0.08	0.00	0.00
One Year Ago 12-27-2022	90.59	9.21	0.21	0.00	0.00	0.00

Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme 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:

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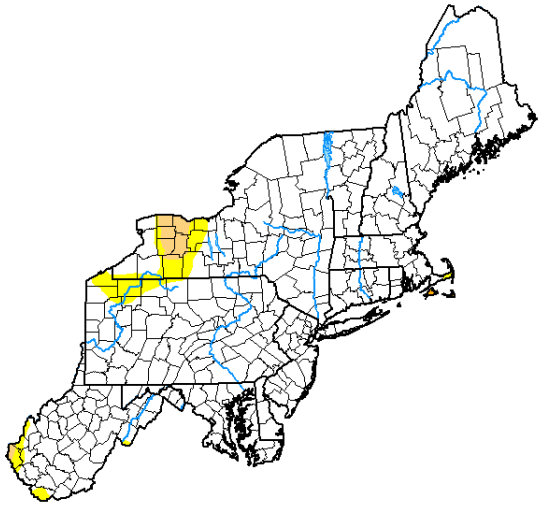
NCEI/NOAA

droughtmonitor.unl.edu

U.S. Drought Monitor

Northeast



January 23, 2024

(Released Thursday, Jan. 25, 2024)

Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	94.62	3.95	1.37	0.07	0.00	0.00
Last Week 01-16-2024	94.58	3.99	1.37	0.07	0.00	0.00
3 Months Ago 10-24-2023	83.24	14.73	1.76	0.27	0.00	0.00
Start of Calendar Year 01-02-2024	87.20	10.30	1.83	0.67	0.00	0.00
Start of Water Year 09-26-2023	88.48	10.08	1.36	0.08	0.00	0.00
One Year Ago 01-24-2023	95.28	4.52	0.21	0.00	0.00	0.00

Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme 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

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droughtmonitor.unl.edu

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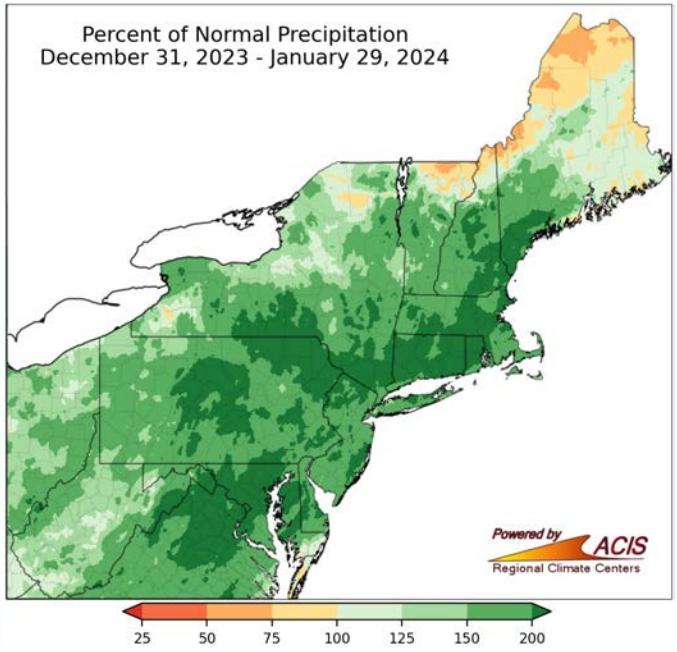
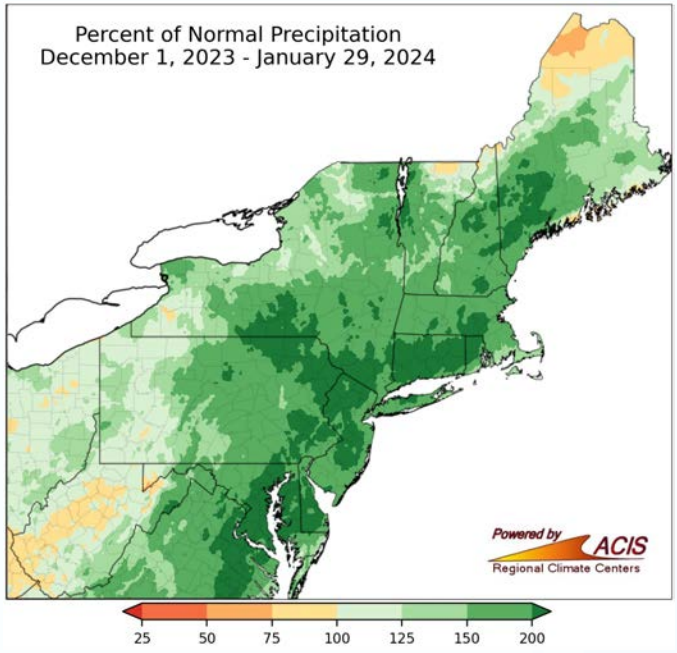
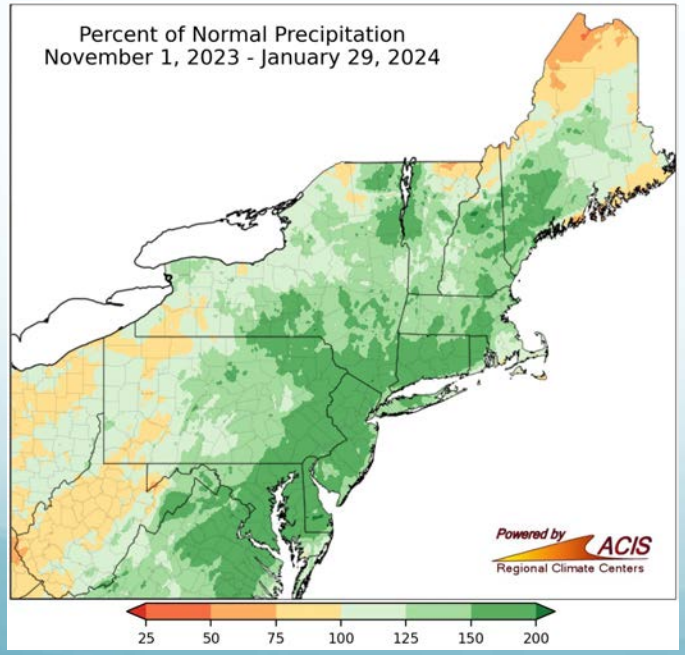
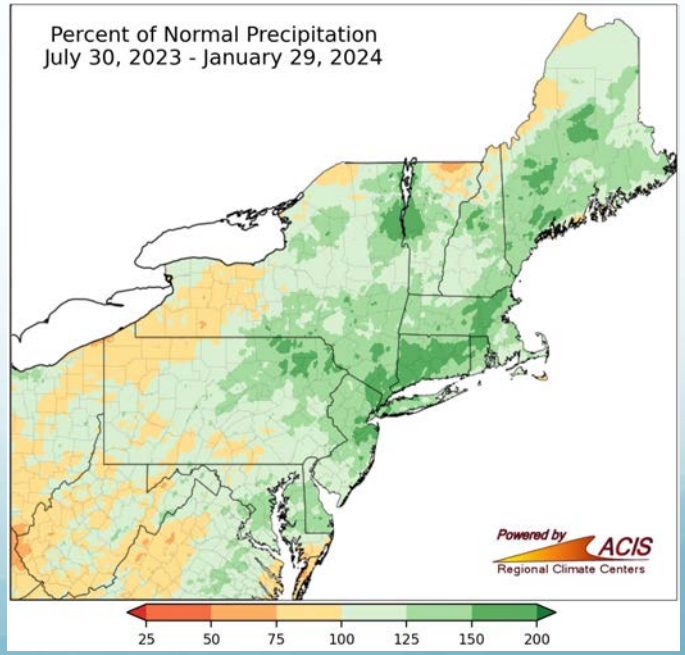
Precipitation

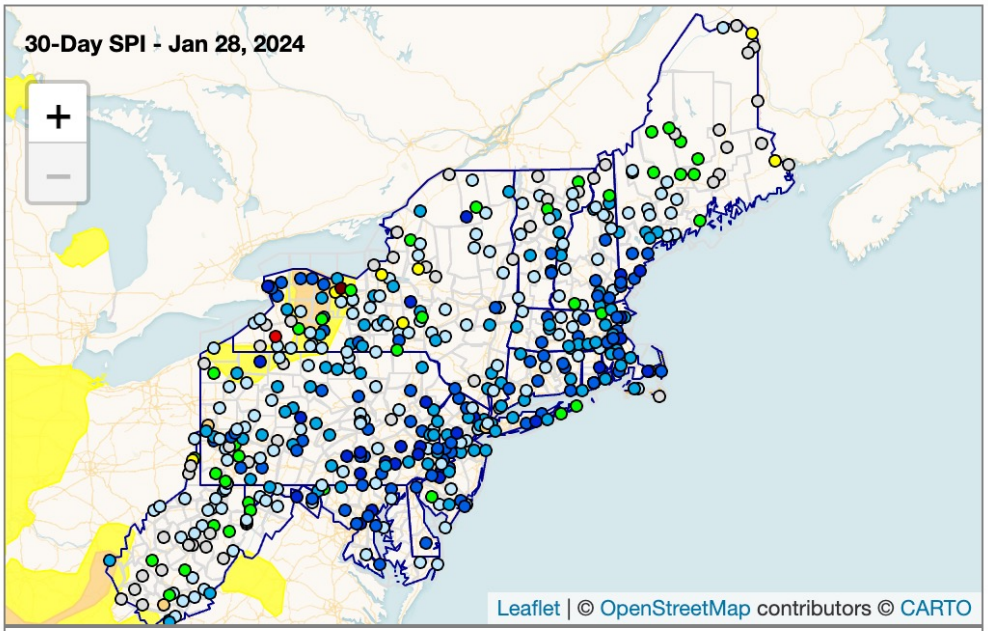






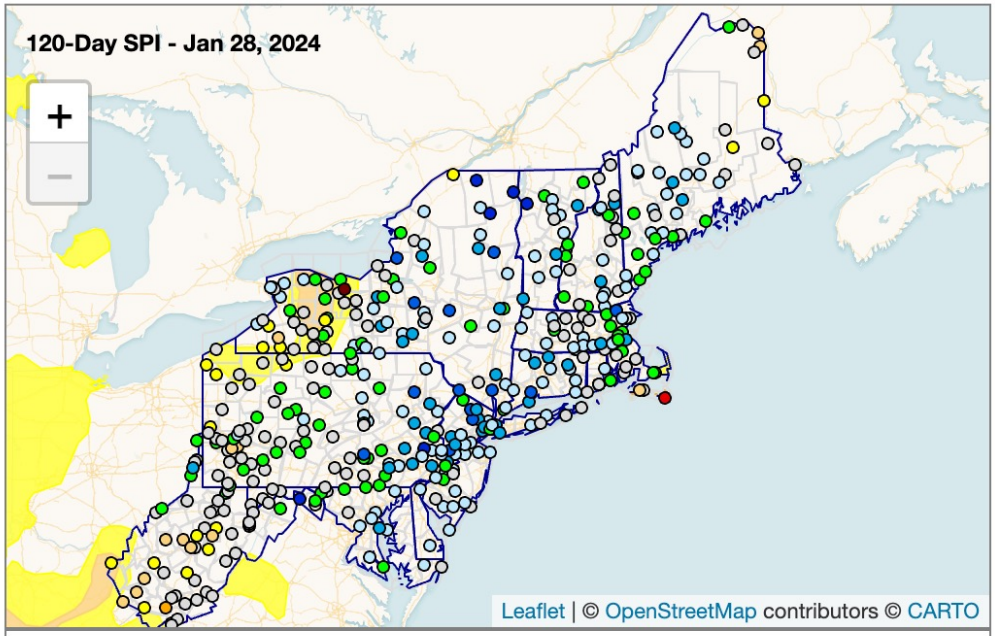


Standardized Precipitation Index



Explanation - SPI Levels										
D4: <-2.0	D3: -2.0 to -1.6	D2: -1.6 to -1.3	D1: -1.3 to -0.8	D0: -0.8 to -0.5	-0.5 to 0.5	0.5 to 0.8	0.8 to 1.3	1.3 to 1.6	1.6 to 2.0	>2.0

Data provided by Northeast Regional Climate Center. Powered by ACIS.



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D4: <-2.0	D3: -2.0 to -1.6	D2: -1.6 to -1.3	D1: -1.3 to -0.8	D0: -0.8 to -0.5	-0.5 to 0.5	0.5 to 0.8	0.8 to 1.3	1.3 to 1.6	1.6 to 2.0	>2.0

Data provided by Northeast Regional Climate Center. Powered by ACIS.

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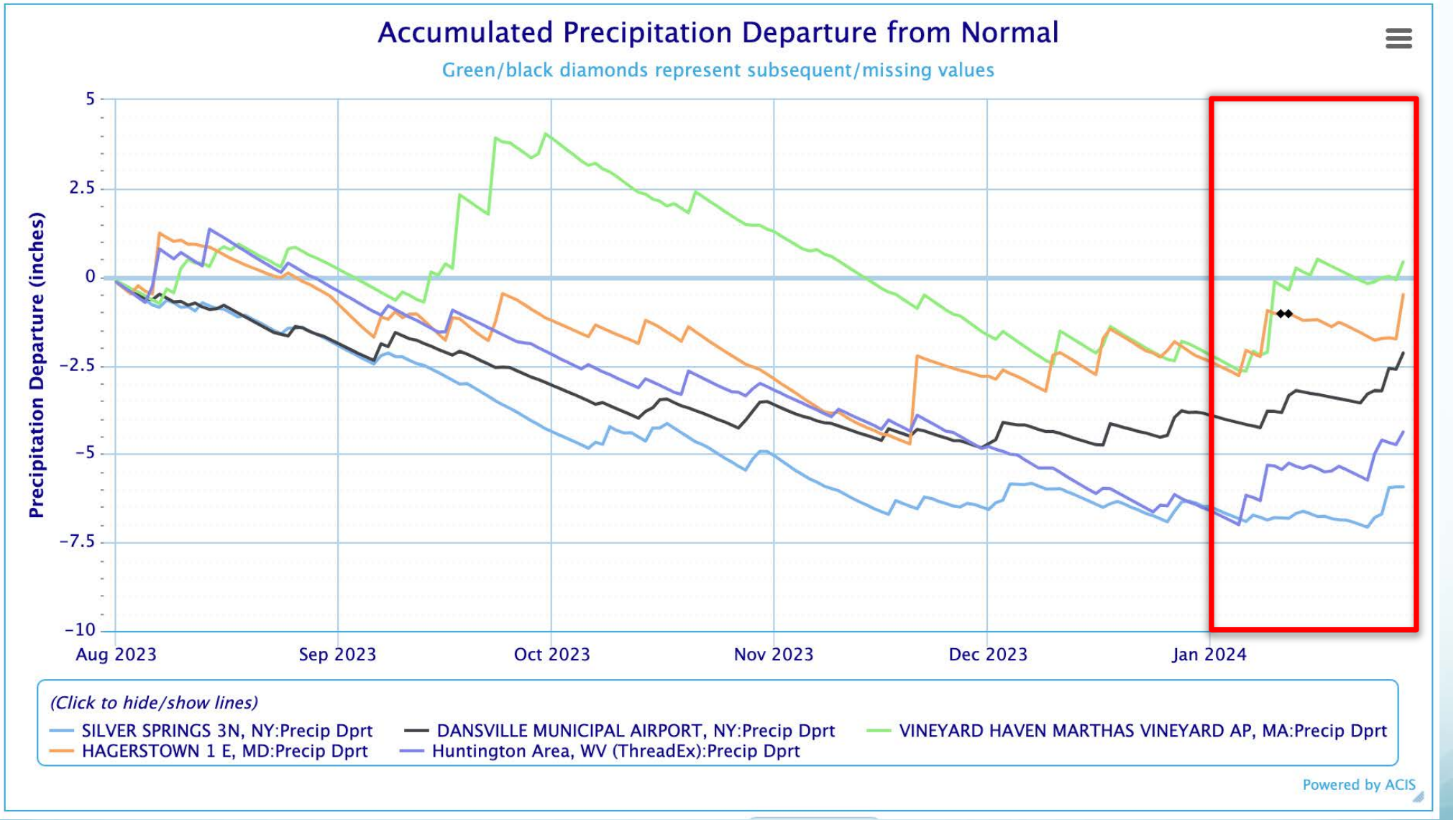
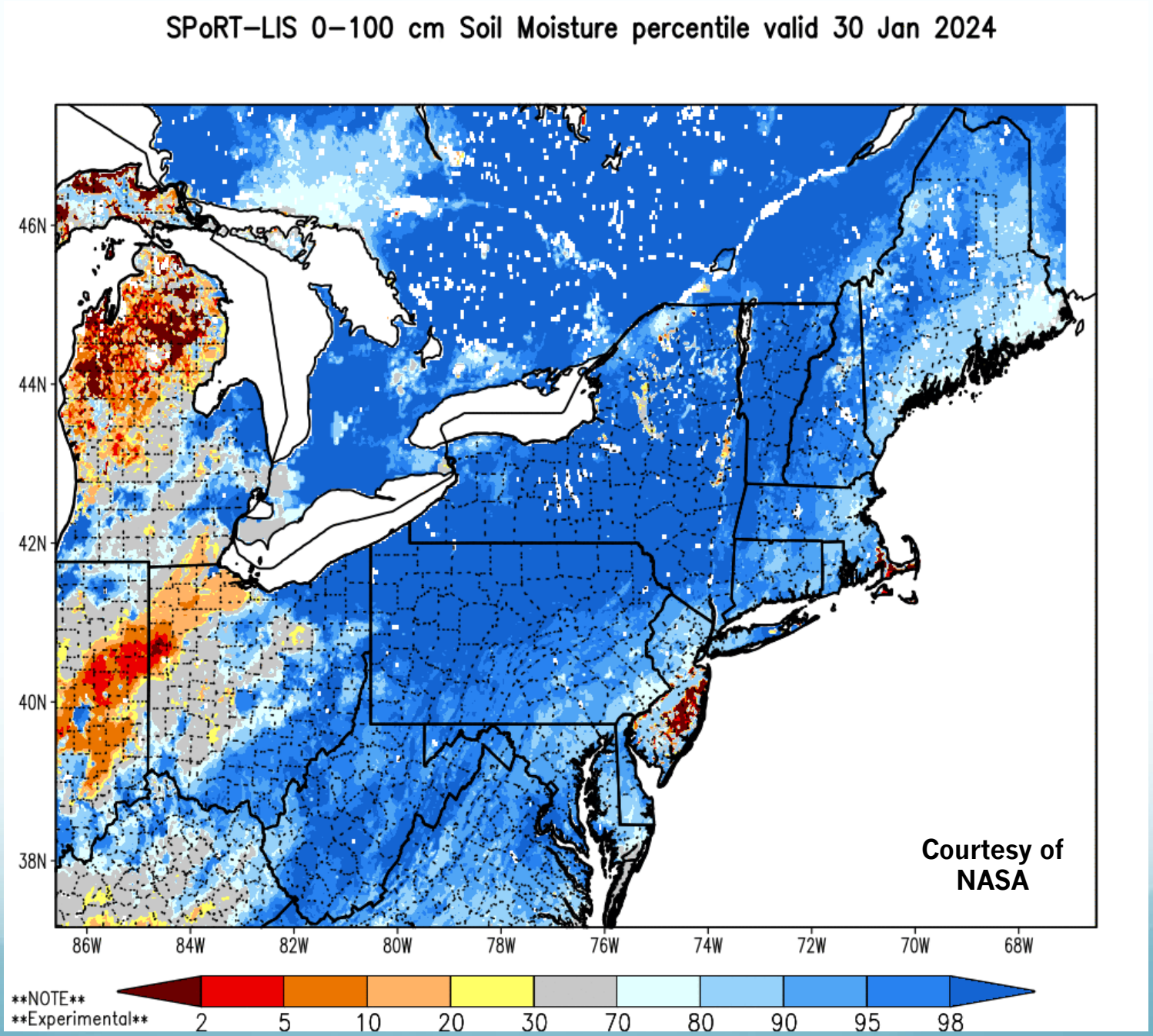
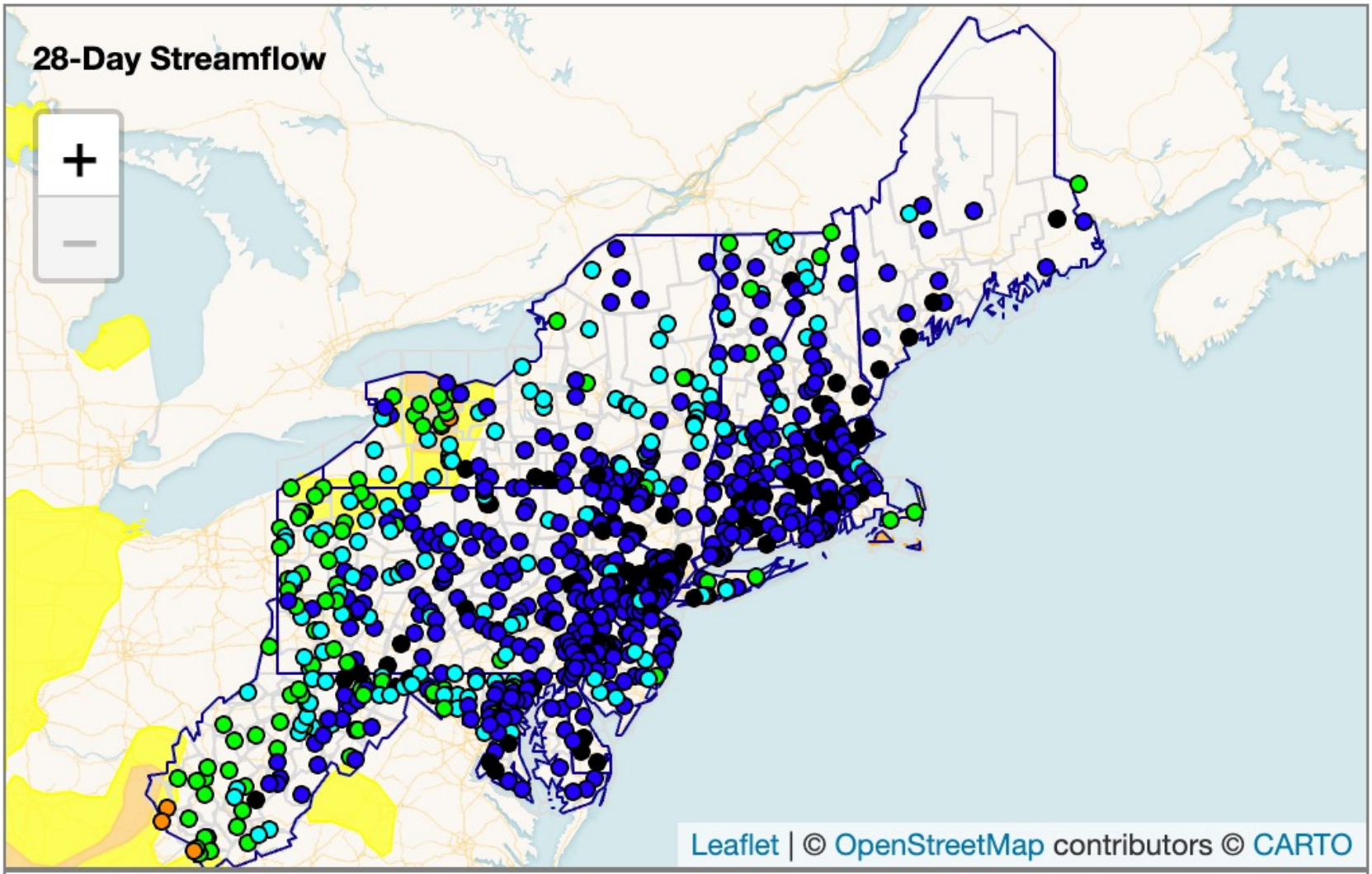
Precipitation



Soil Moisture



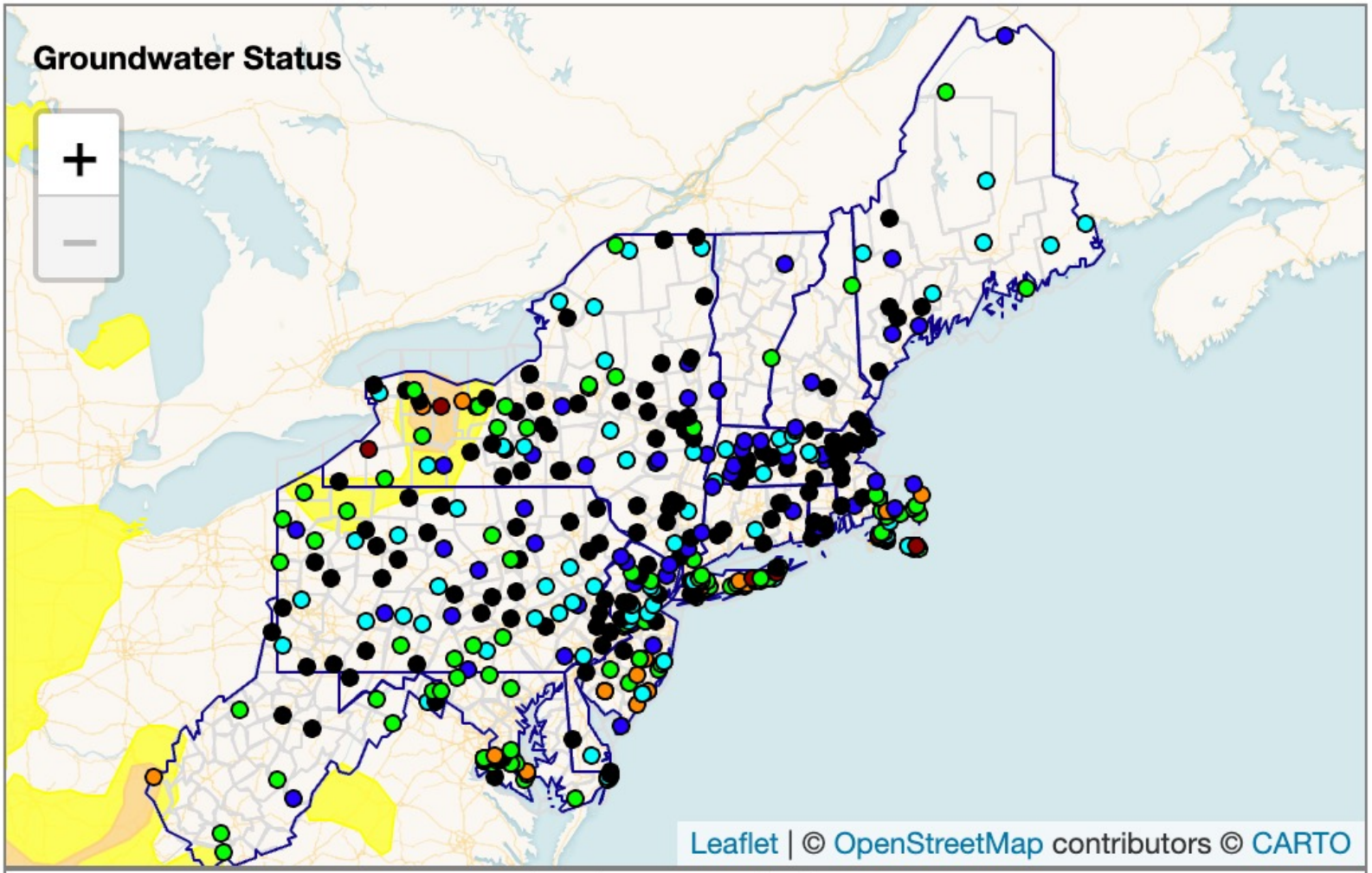
Streamflow



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

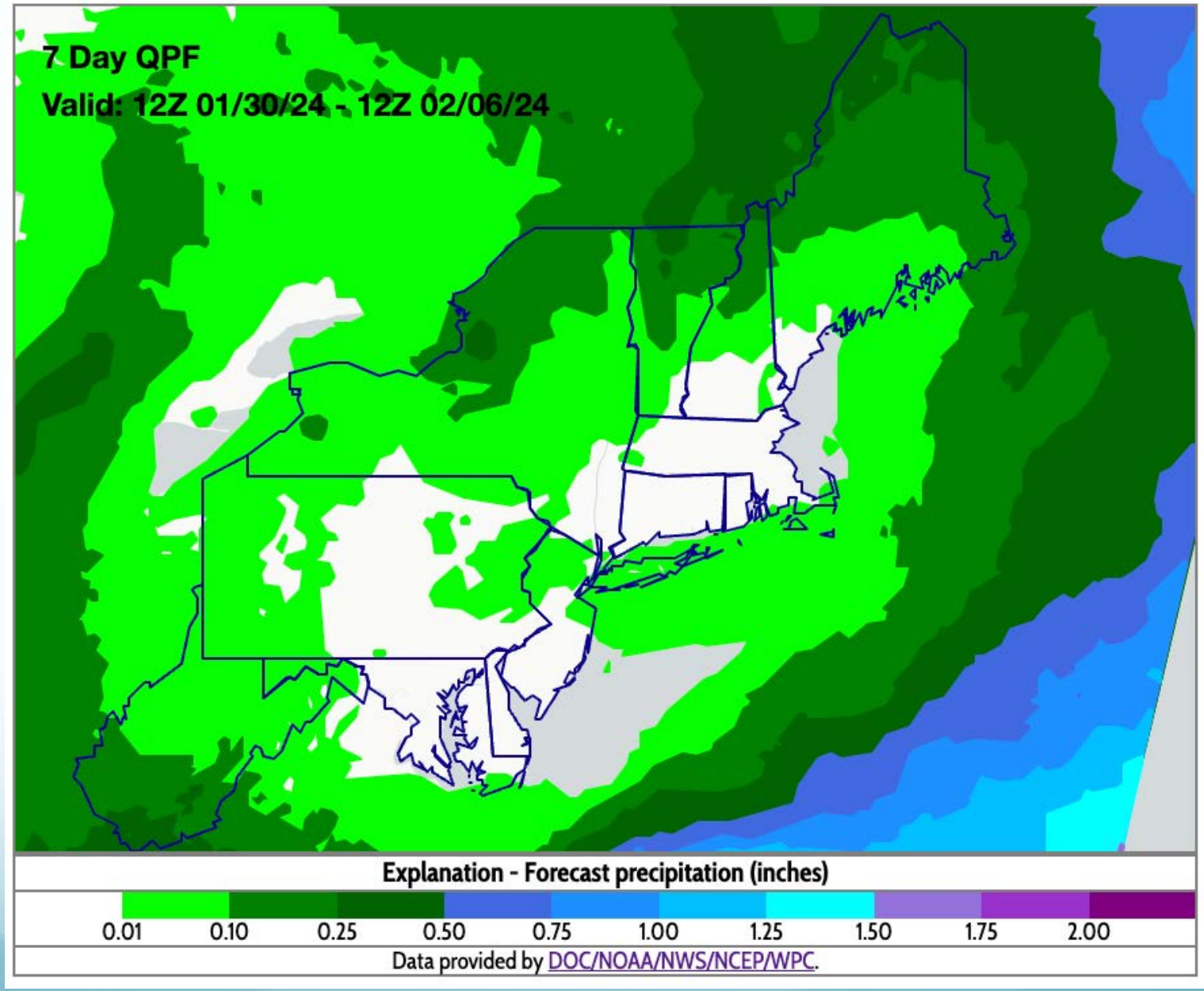
Data provided by USGS WaterWatch - Streamflow; updated 2024-01-30.

Groundwater

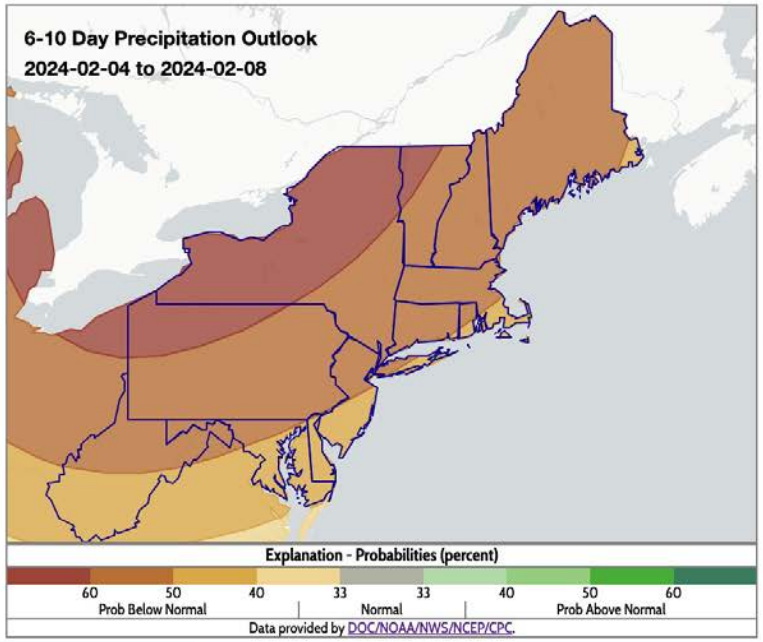


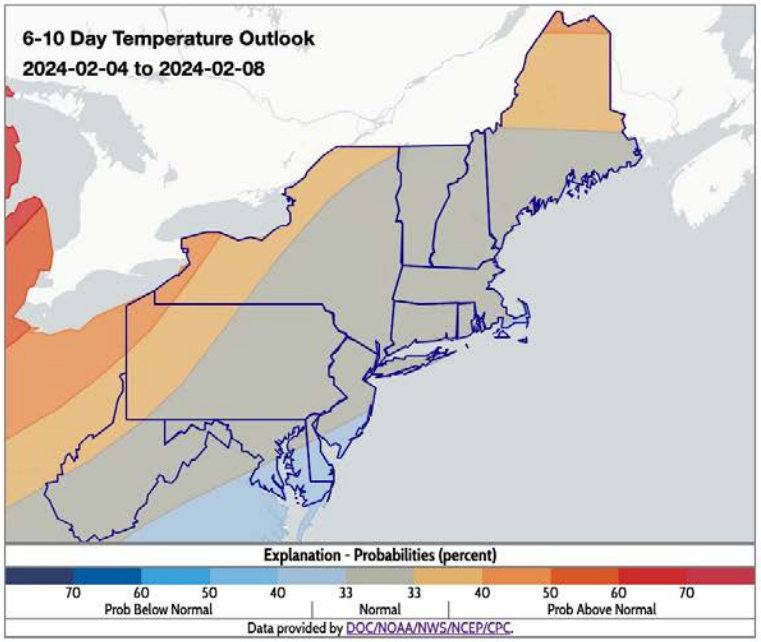
Explanation - Percentile Classes						
Low	Much below normal	Below normal	Normal	Above normal	Much above normal	High
	<10%	10-24%	25-75%	76-90%	>90%	
Data provided by USGS Groundwater - About this map; updated 2024-01-30.						

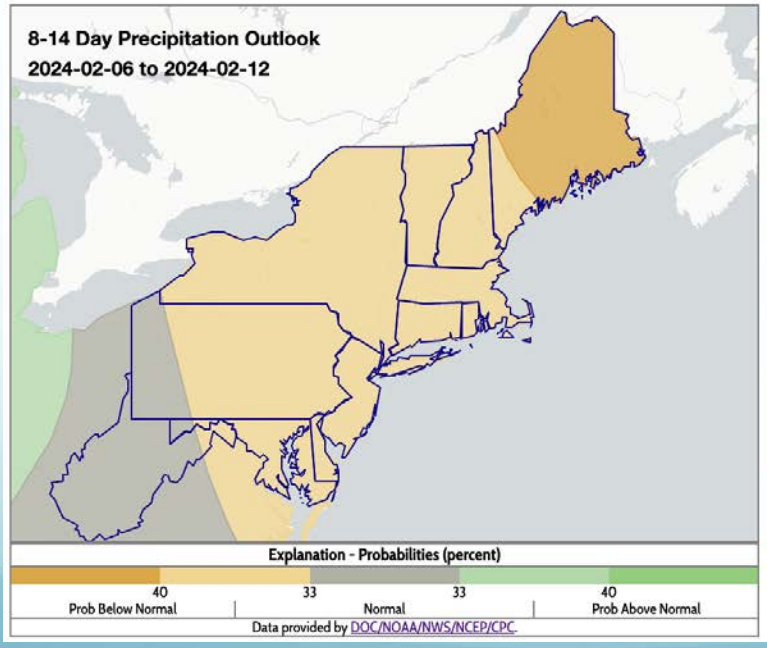
Precipitation Forecast

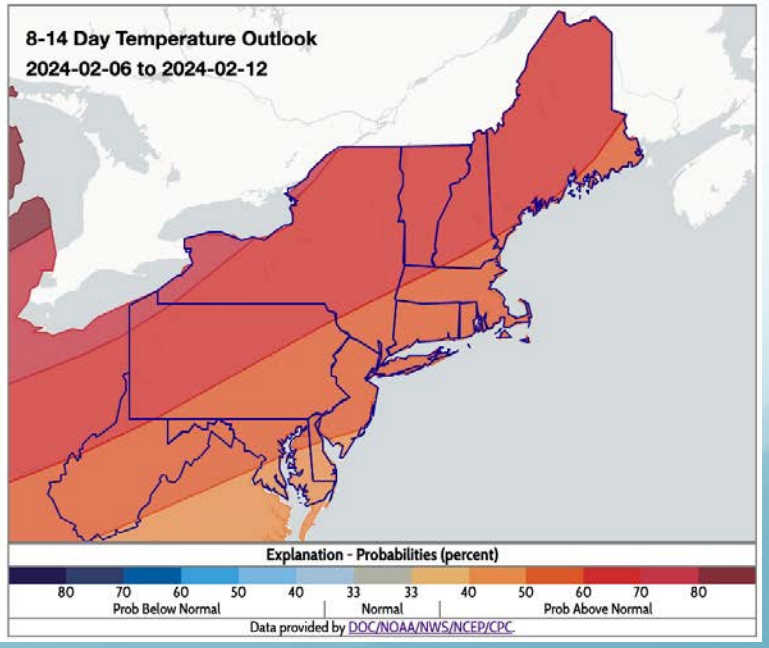


Short-term Outlooks

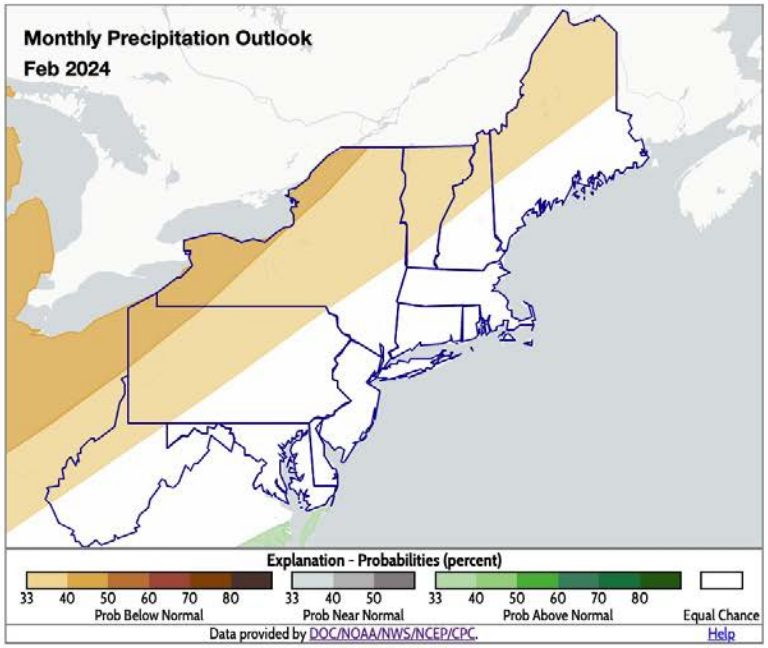


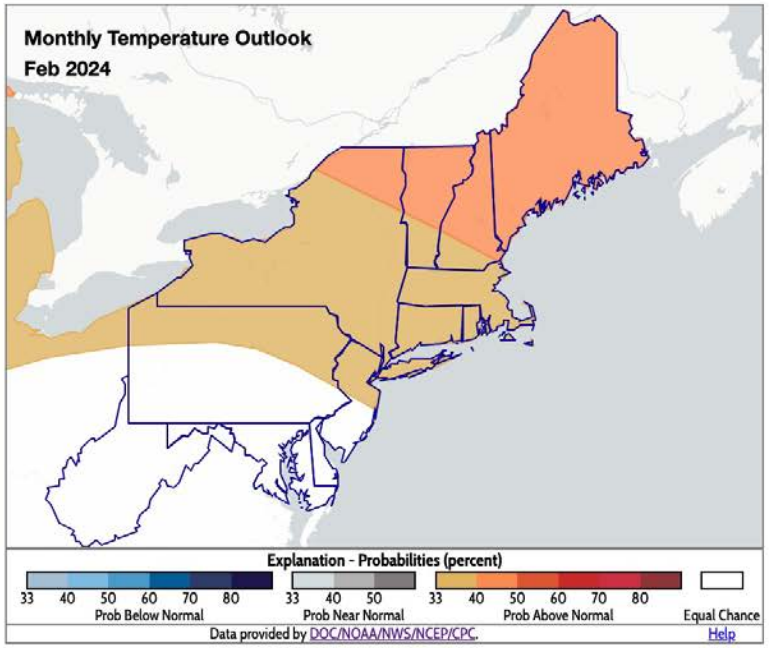


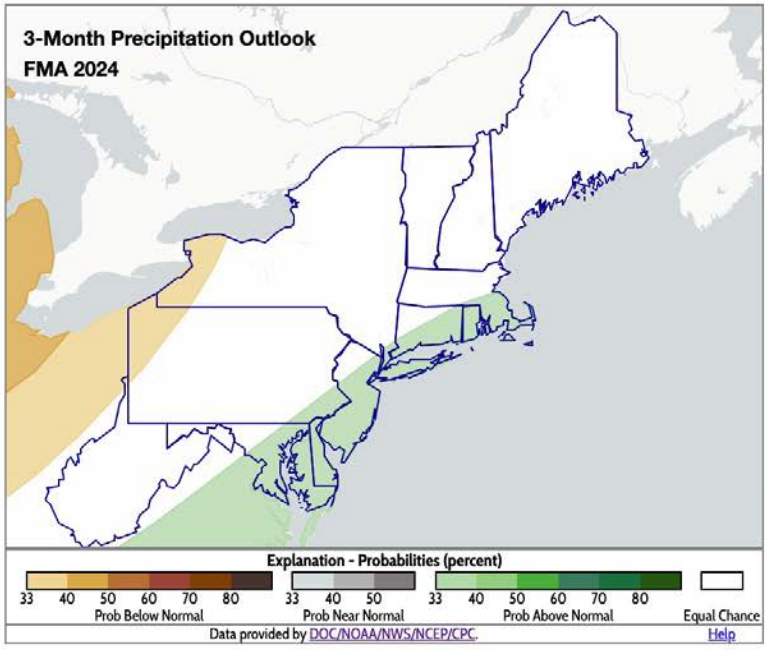


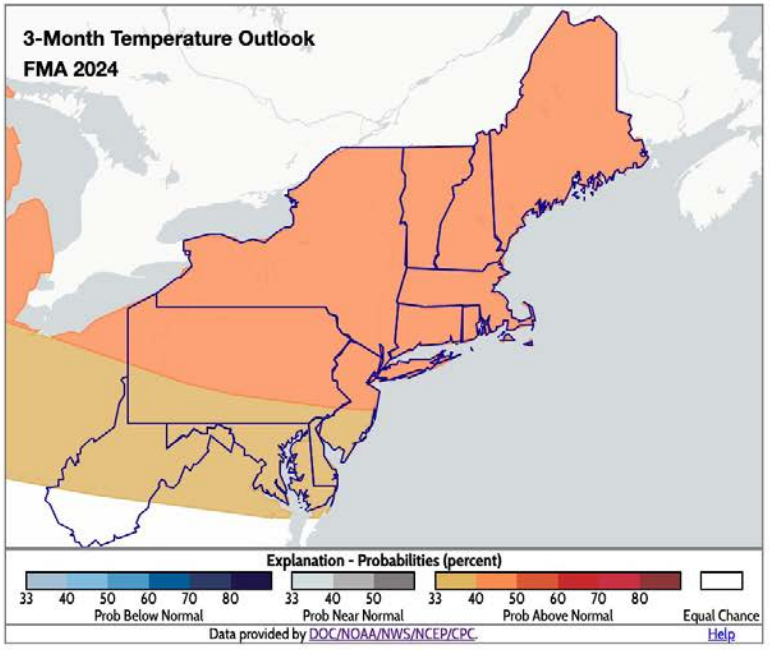


Monthly & 3-Month Outlooks





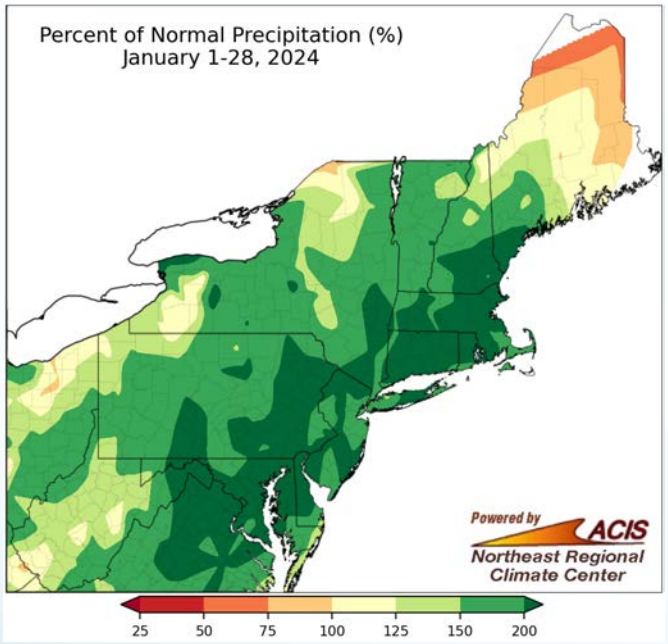




Summary

January-to-date conditions:

- Above-normal temperatures for most of the region
- Above-normal precipitation for many areas



Drought:

- Drought and dryness shrank in coverage thanks to wetter-than-normal conditions
- Lingering drought in western New York and southeastern Massachusetts is generally due to much below-normal groundwater levels and/or longer-term precipitation deficits

Outlooks:

- Short-term: below- or near-normal precipitation and near- or generally above-normal temperatures
- Feb: tilt toward below-normal precipitation and above-normal temperatures for some areas
- Feb-Apr: tilt toward above-normal precipitation for coastal areas but below-normal for some interior locations; above-normal temperatures favored for most areas

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Contact Information

- nrcc@cornell.edu

Upcoming Webinars

- Thursday, February 29 at 9:30am EST
  - Coastal Inundation and High Tide Flooding
- Thursday, March 28 at 9:30am EDT
  - Spring Flood Outlook
- Tuesday, April 30 at 9:30am EDT
  - Marine Storms

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