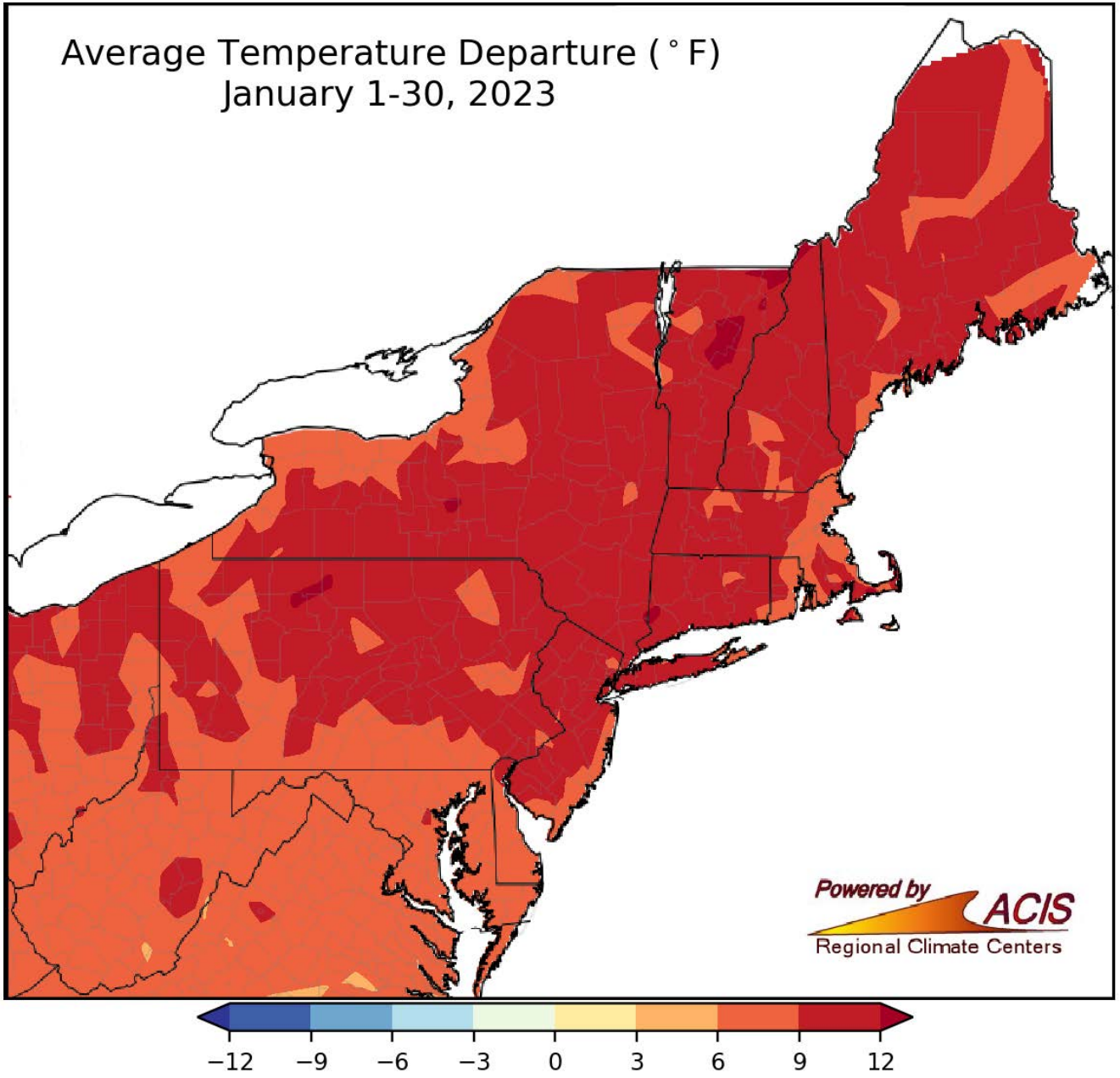
January Review & Northeast DEWS Discussion

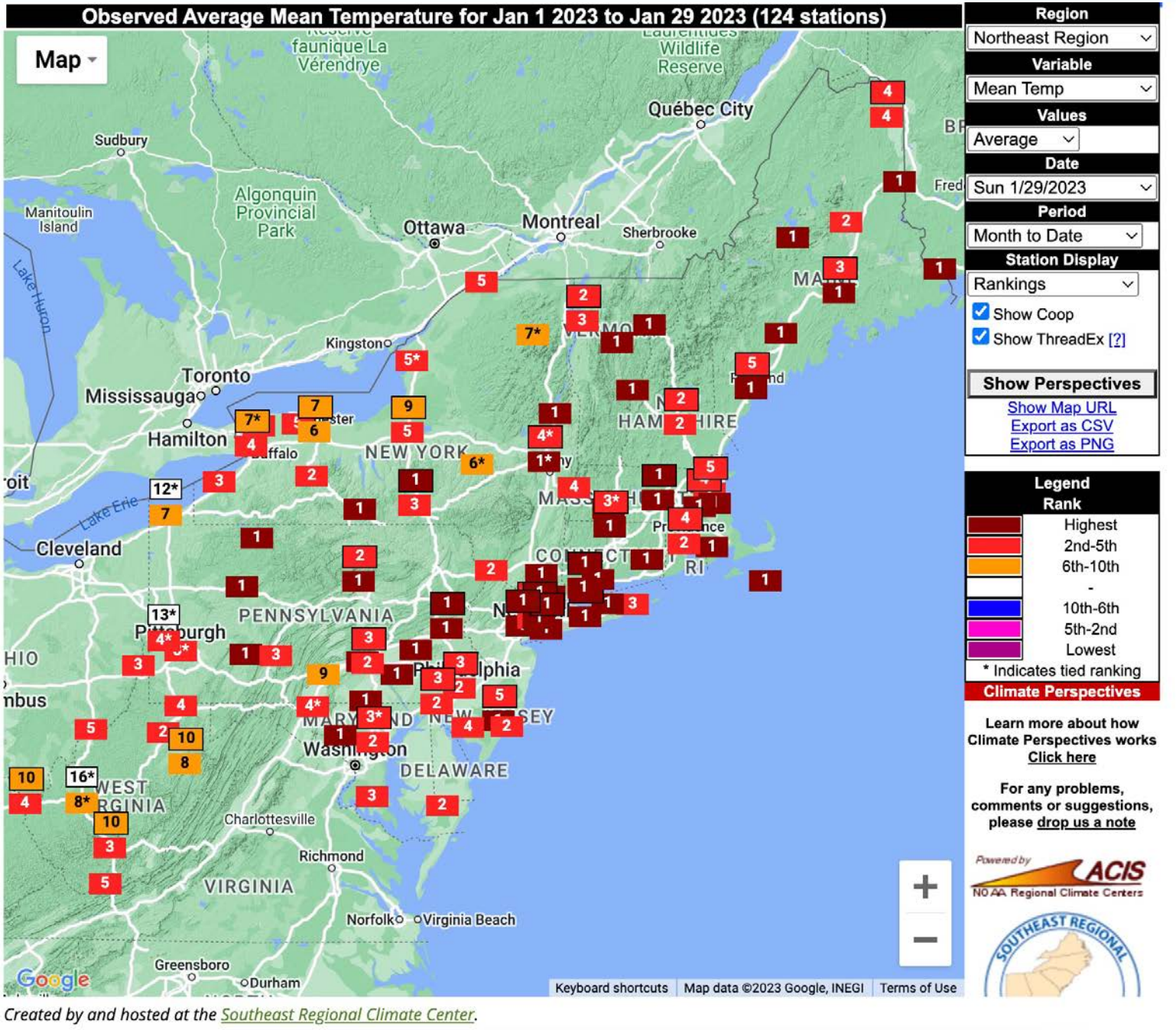
By: Samantha Borisoff, Climatologist
Northeast Regional Climate Center

January Temperatures



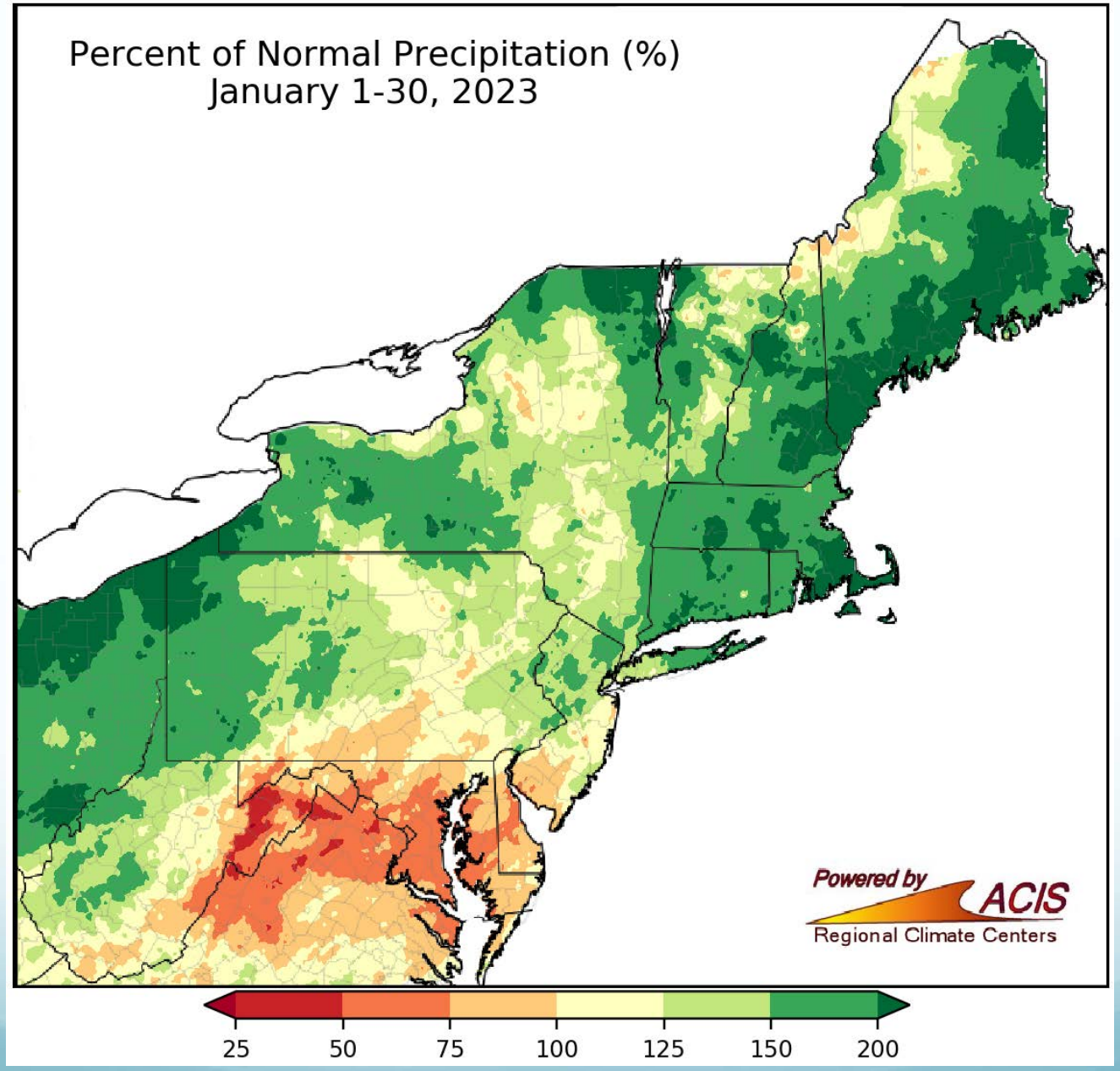
From 6°F to 12°F above normal

January Temperatures



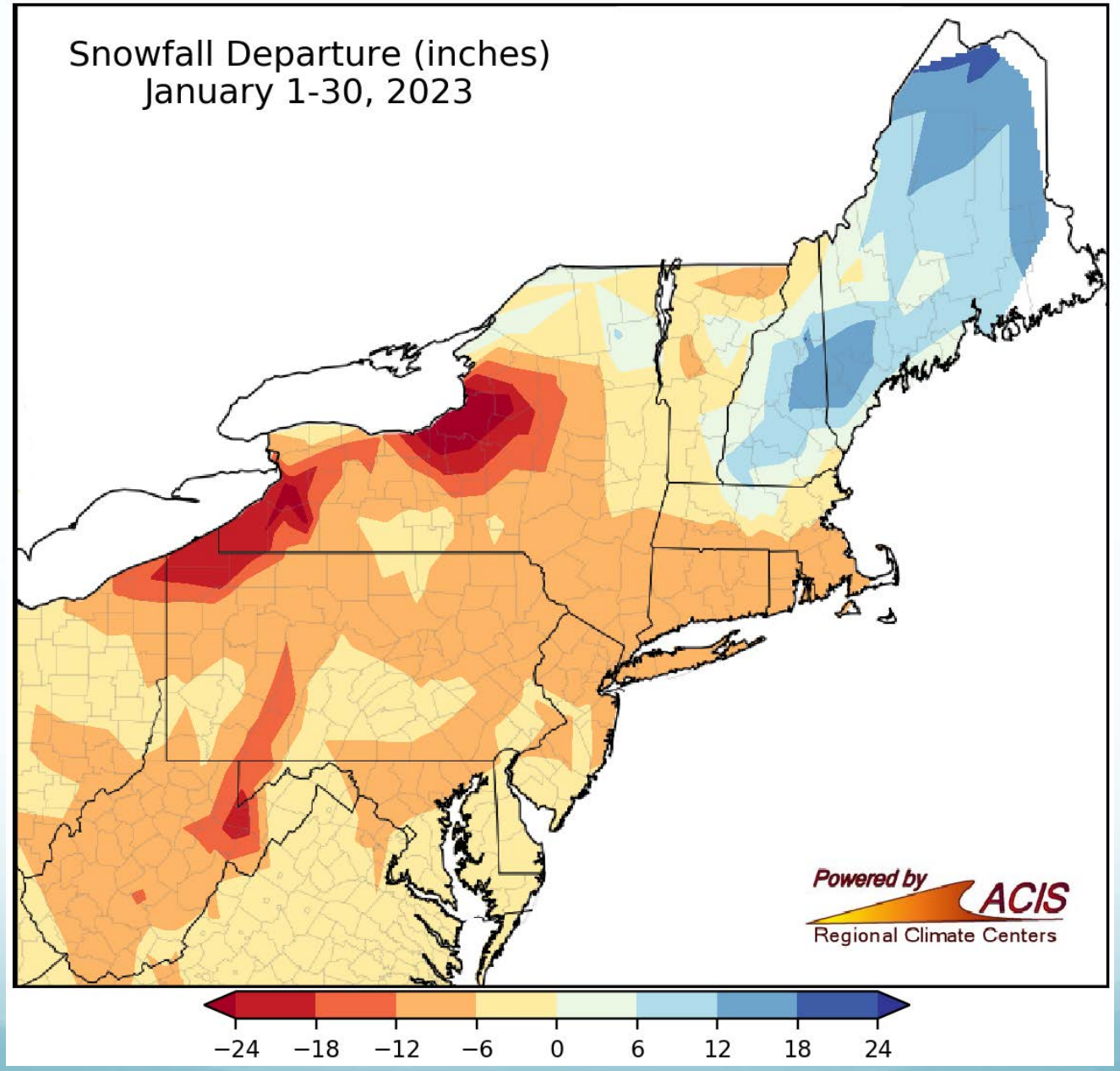
Created by and hosted at the Southeast Regional Climate Center.

January Precipitation



From 25% of normal to more than 200% of normal

January Snowfall



From more than 24” below normal to more than 12” above normal

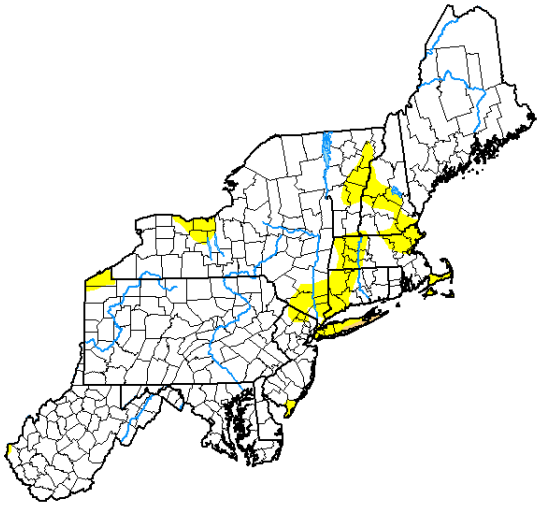
January Snowfall

Location	Average Date of First Measurable Snow*	Record Latest	Rank as of Jan. 30
Kennedy Airport, NY	Dec. 9	Jan. 29	latest
Central Park, NY	Dec. 13	Jan. 29	latest
Baltimore, MD	Dec. 16	Feb. 21	3rd latest
Dulles Airport, VA	Dec. 17	Jan. 27	latest
Wilmington, DE	Dec. 17	Feb. 16	3rd latest
Philadelphia, PA	Dec. 19	Feb. 3	2nd latest
Washington, DC	Dec. 22	Feb. 23	5th latest
Atlantic City, NJ	Dec. 23	Feb. 16	4th latest
		*based on 1991-2020	

Drought Monitor

U.S. Drought Monitor

Northeast



December 27, 2022

(Released Thursday, Dec. 29, 2022)

Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	90.59	9.21	0.21	0.00	0.00	0.00
Last Week *12-20-2022*	90.49	8.07	1.44	0.00	0.00	0.00
3 Months Ago *09-27-2022*	69.23	17.83	9.11	3.70	0.14	0.00
Start of Calendar Year *01-04-2022*	84.91	12.92	1.32	0.85	0.00	0.00
Start of Water Year *09-27-2022*	69.23	17.83	9.11	3.70	0.14	0.00
One Year Ago *12-28-2021*	77.53	19.05	2.57	0.85	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:

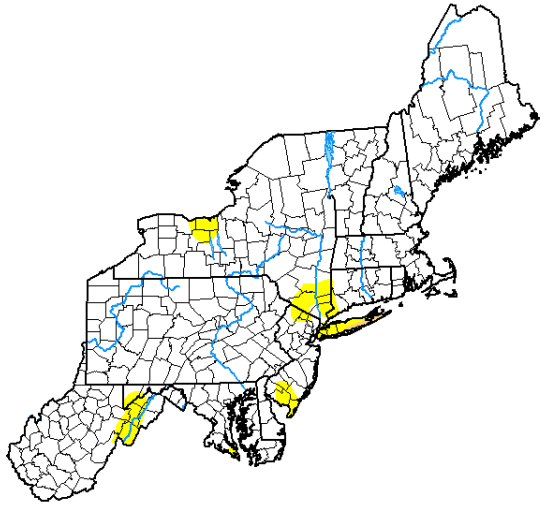
Richard Heim

NCEI/NOAA

droughtmonitor.unl.edu

U.S. Drought Monitor

Northeast



January 24, 2023

(Released Thursday, Jan. 26, 2023)

Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	95.28	4.52	0.21	0.00	0.00	0.00
Last Week *01-17-2023*	94.05	5.74	0.21	0.00	0.00	0.00
3 Months Ago *10-25-2022*	81.30	16.44	1.89	0.37	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 *09-27-2022*	69.23	17.83	9.11	3.70	0.14	0.00
One Year Ago *01-25-2022*	89.35	8.61	1.19	0.85	0.00	0.00

Intensity:

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

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Author:

Rocky Bilotta

NCEI/NOAA

droughtmonitor.unl.edu

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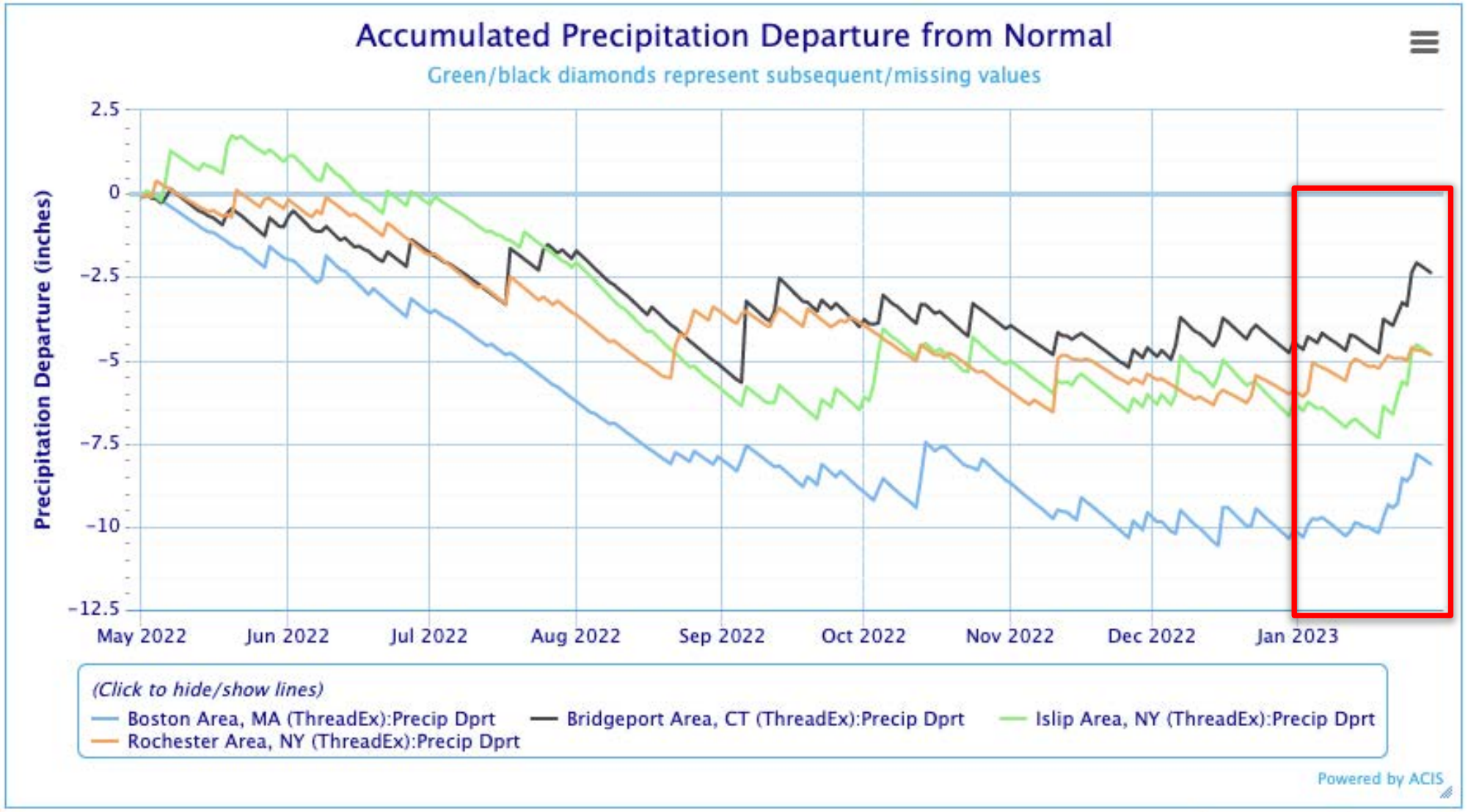
Precipitation



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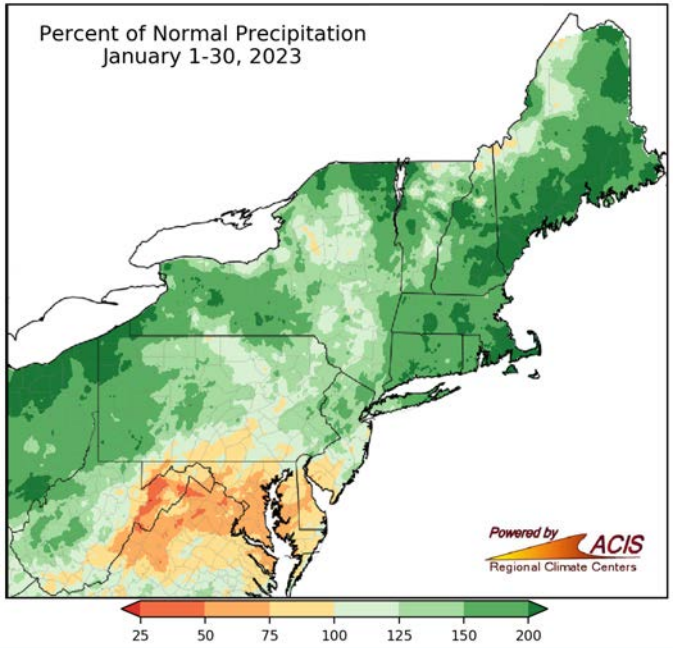
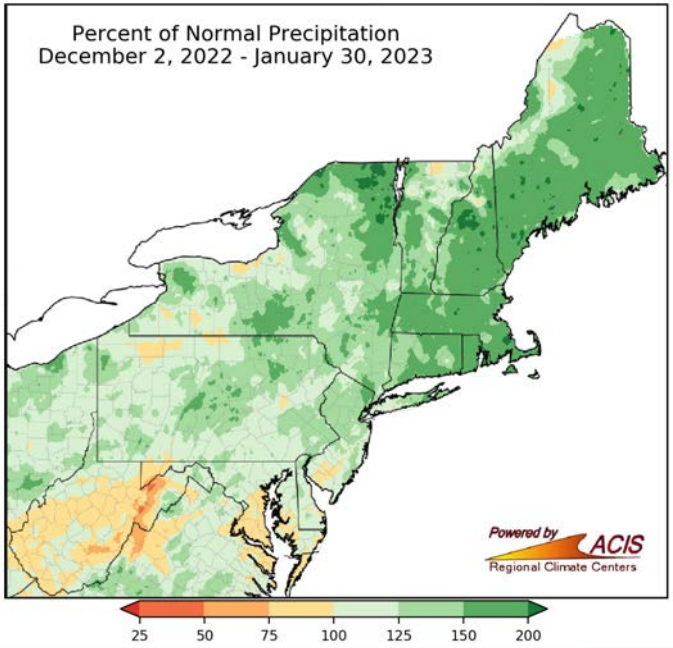
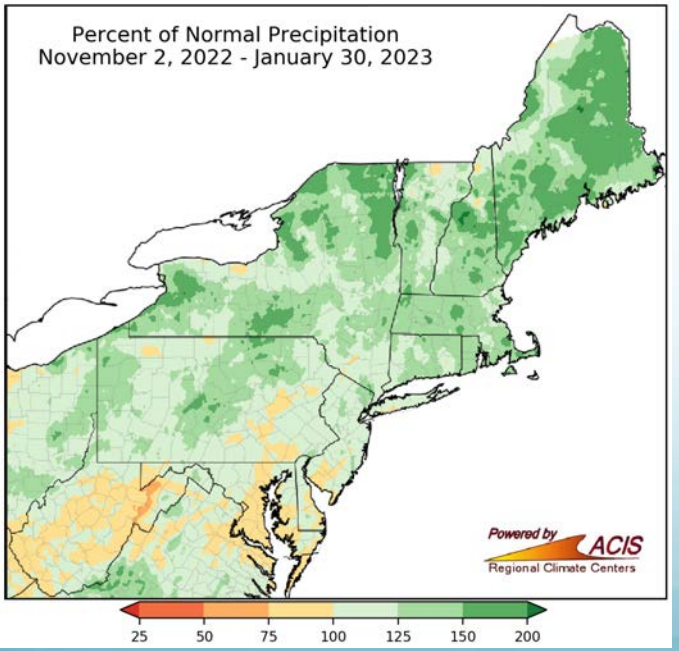
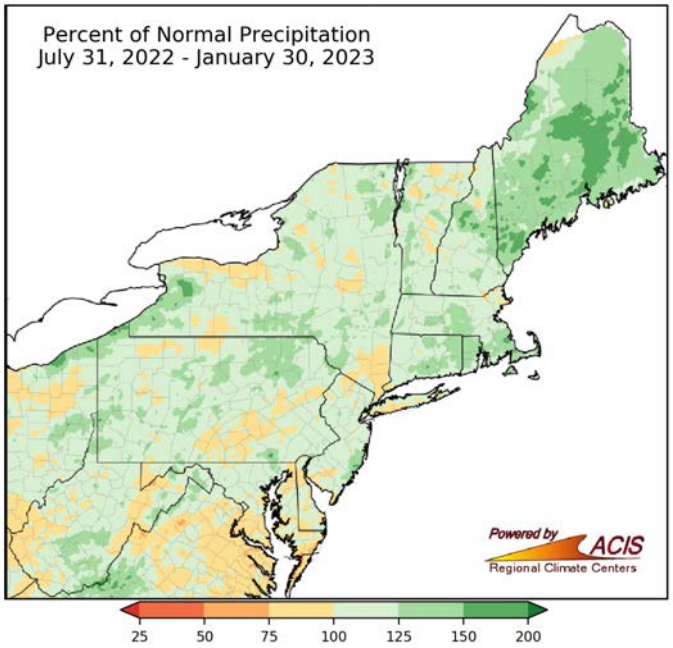
Precipitation

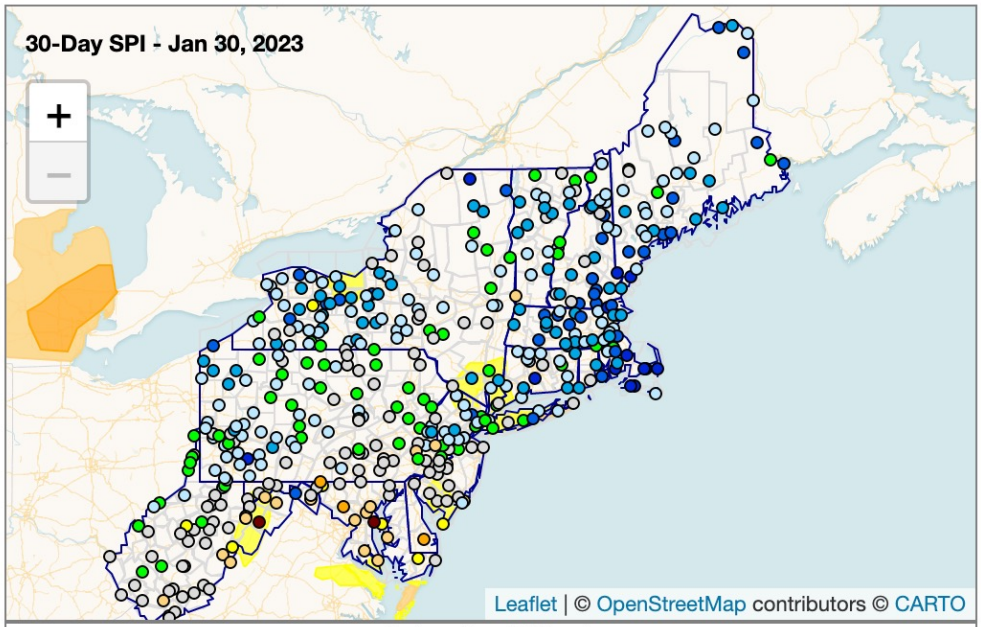






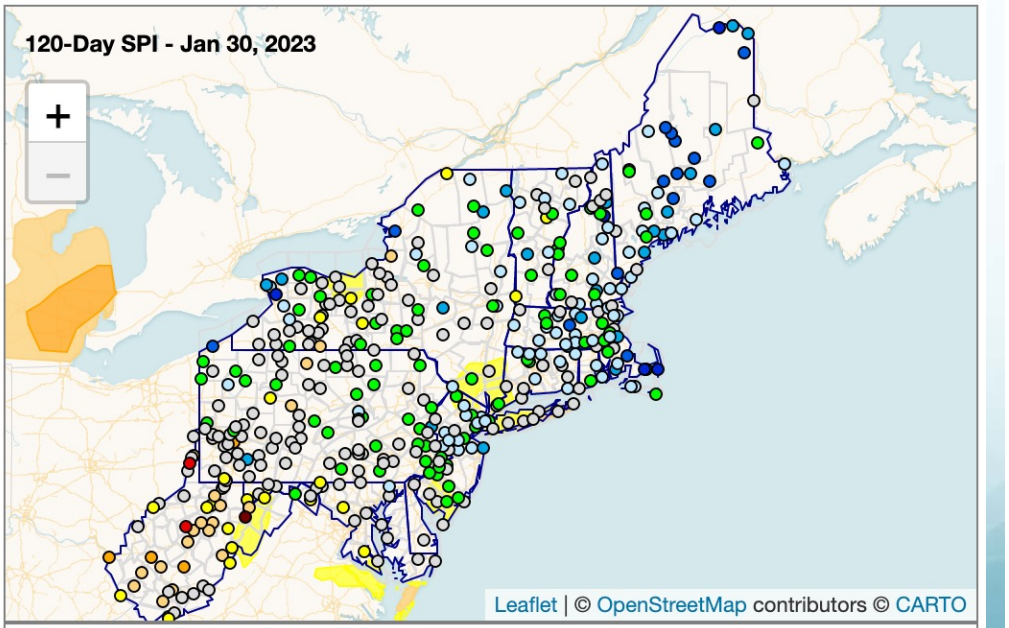


Standardized Precipitation Index



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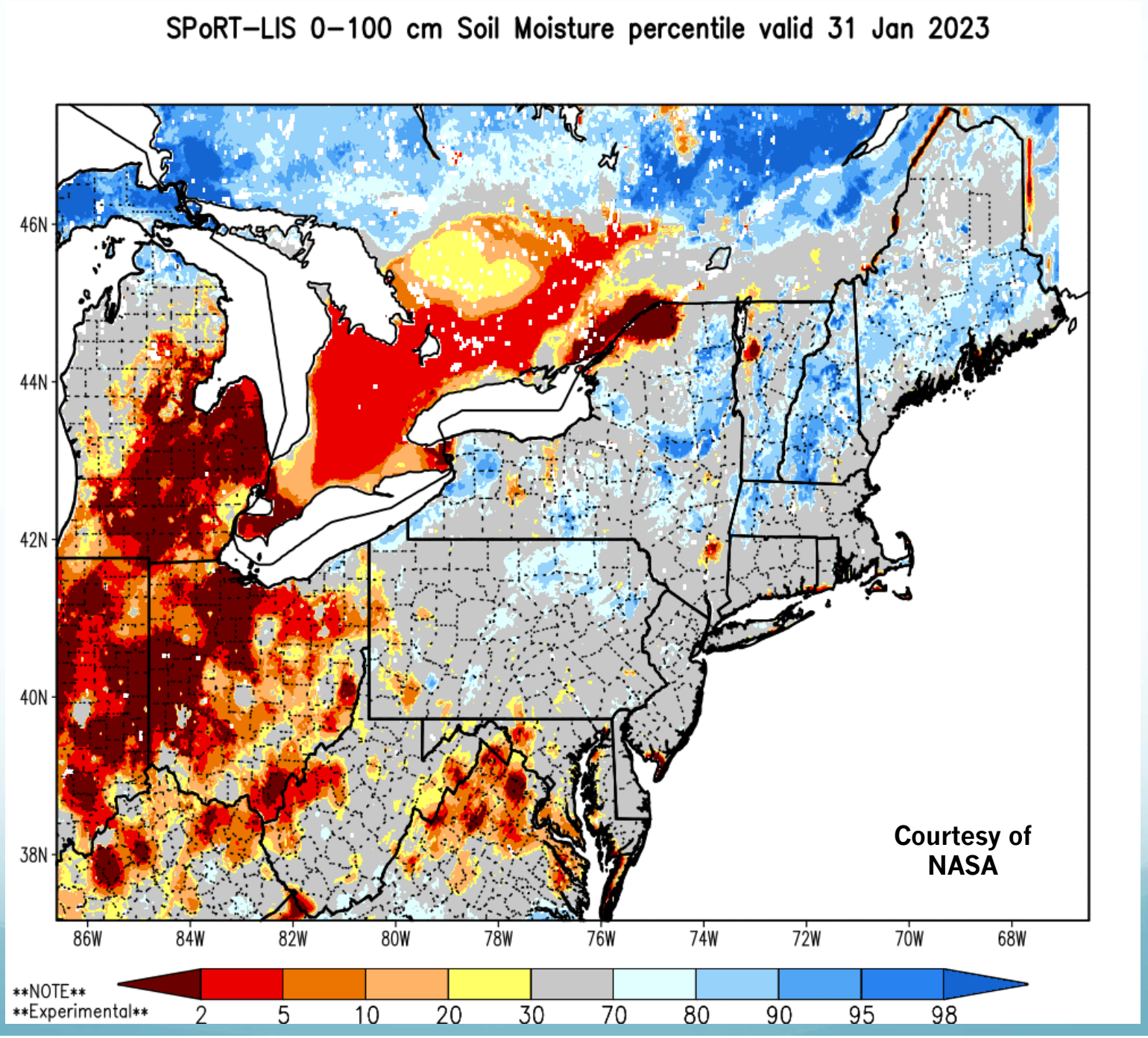
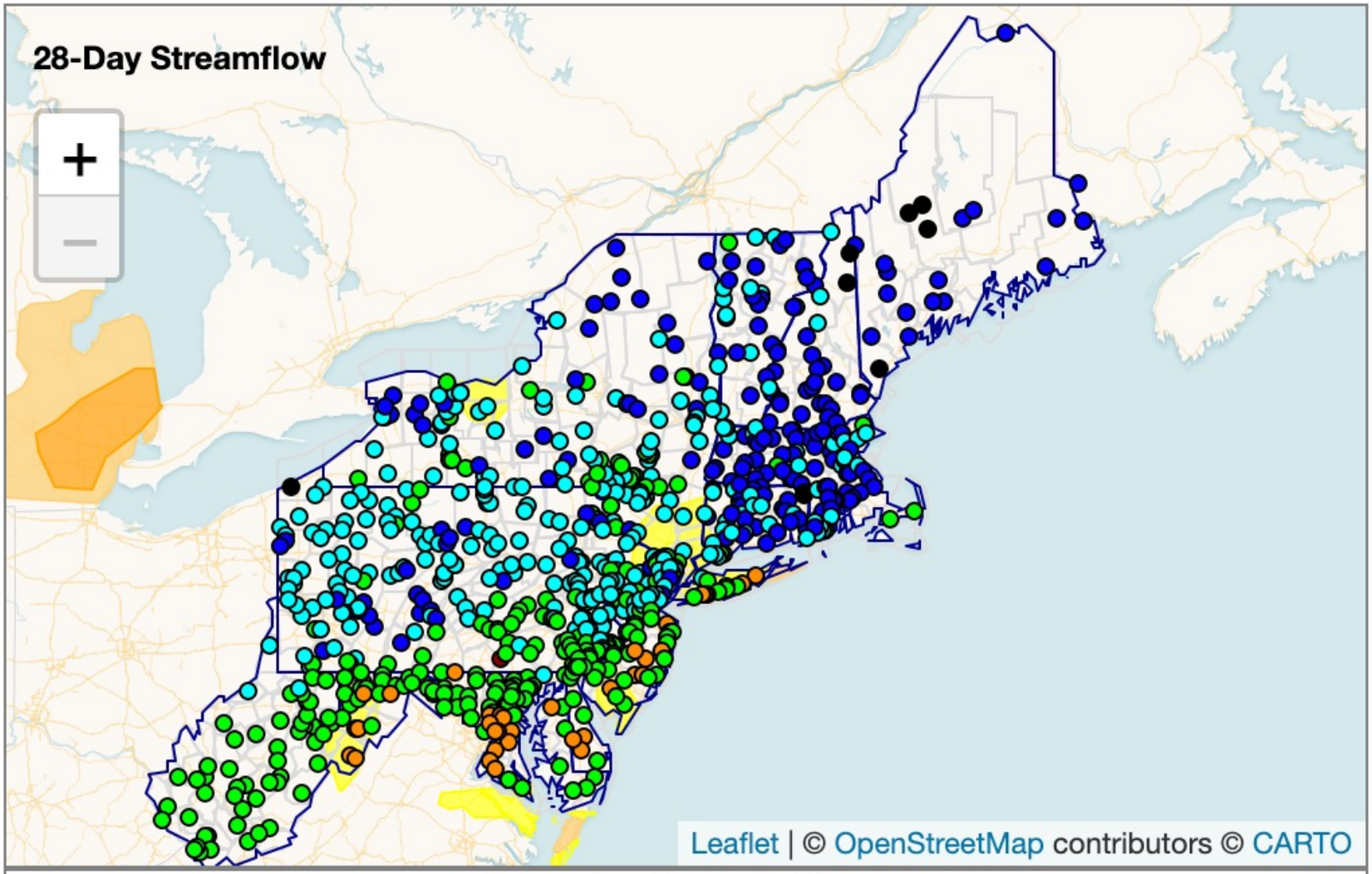
Data provided by Northeast Regional Climate Center. Powered by ACIS.

Soil Moisture

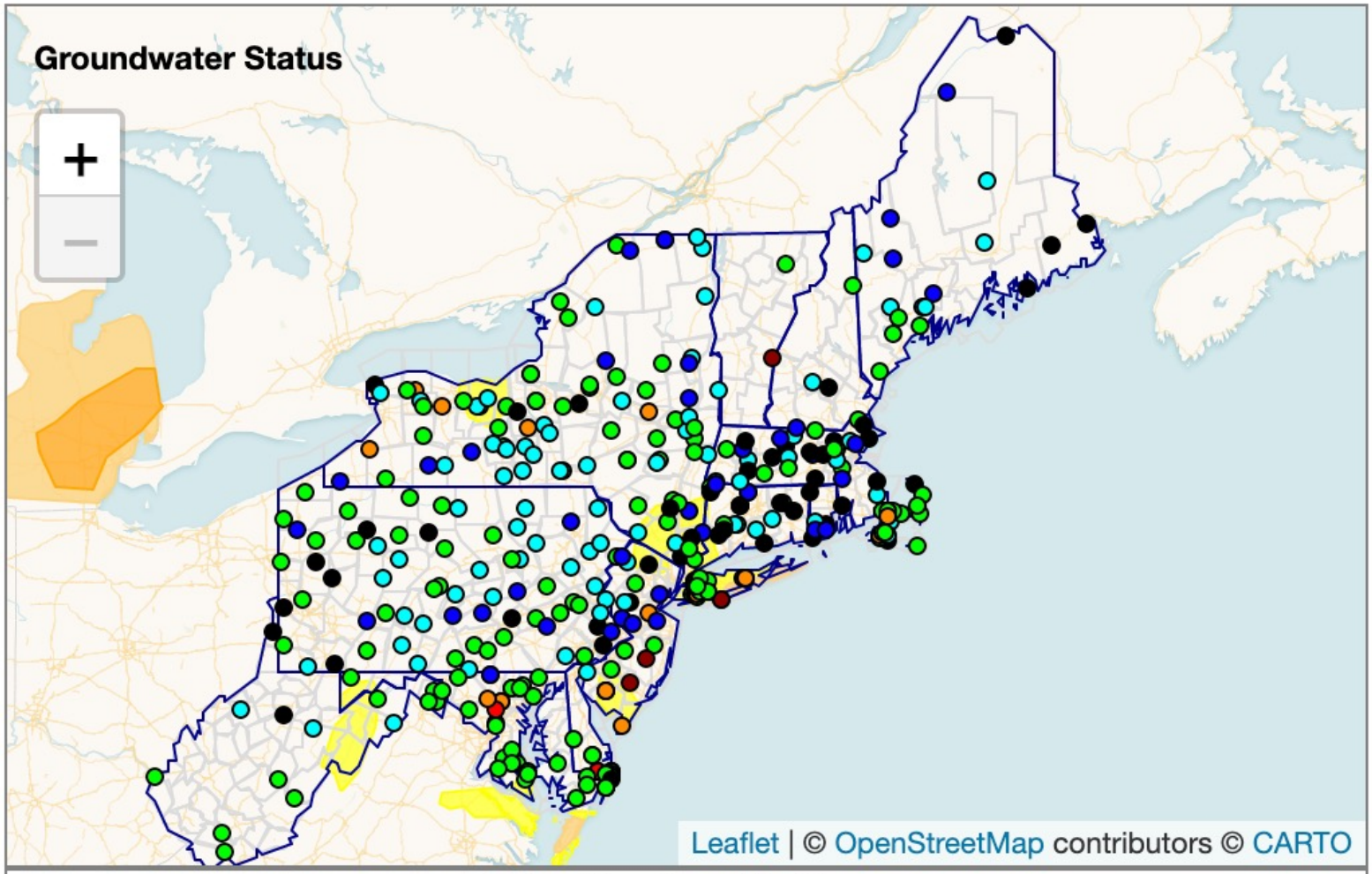


Streamflow



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 2023-01-31.						

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 2023-01-31.

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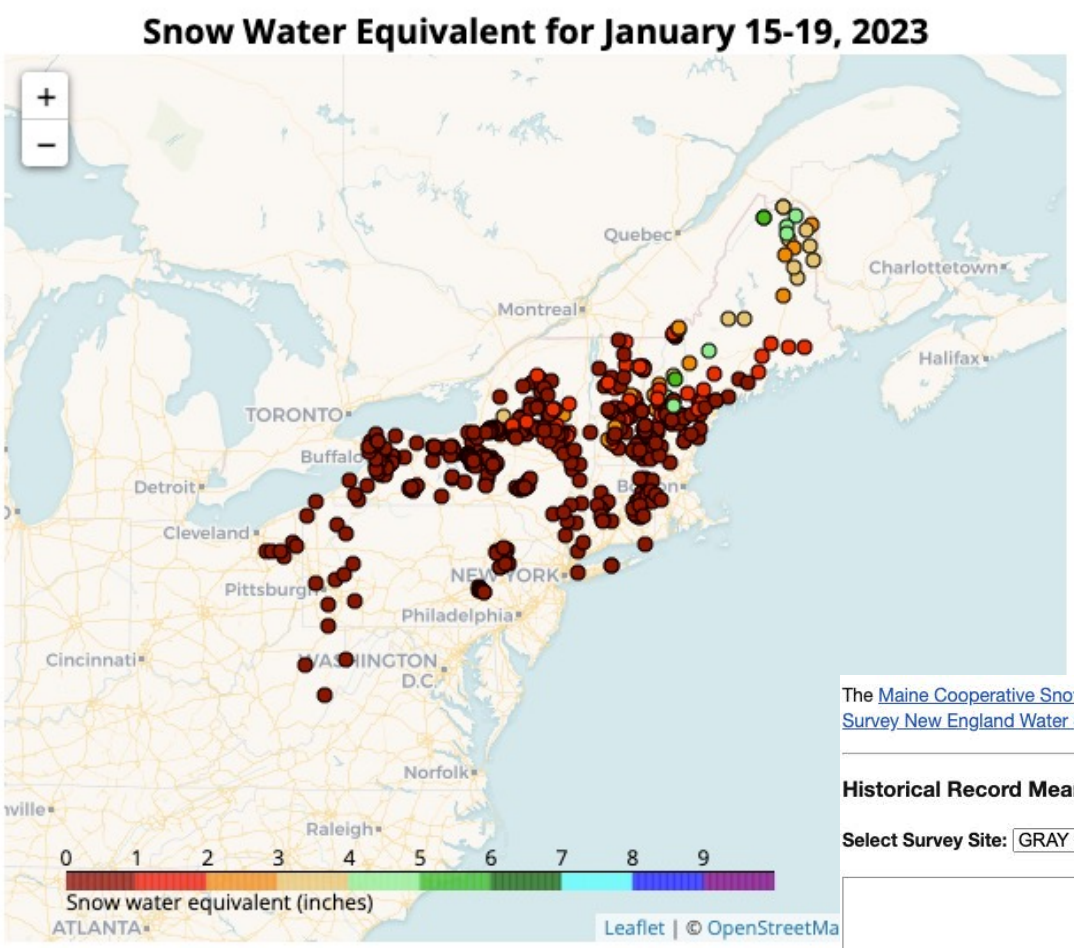
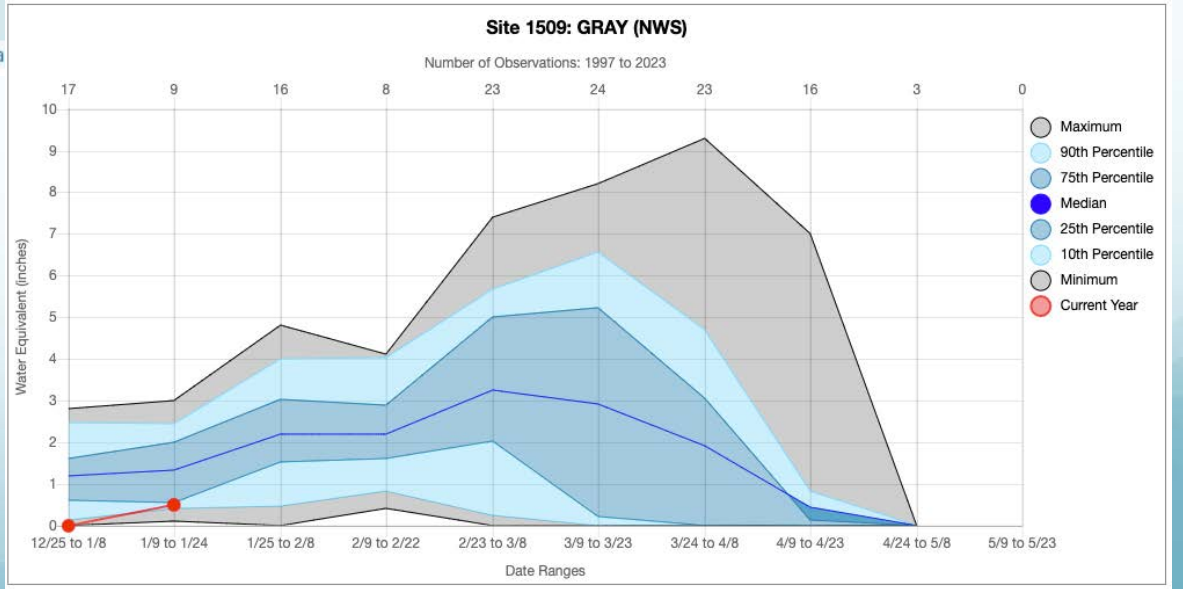
Snow Water Equivalent



The Maine Cooperative Snow Survey maps and data are provided by a partnership with Maine Geological Survey and the U. S. Geological Survey New England Water Science Center, Maine Office for the Maine River Flow Advisory Council.

Historical Record Mean Water Content Graph

Select Survey Site: GRAY (NWS)



Updated: January 18, 2023

http://www.nrcc.cornell.edu/regional/snowsurvey/snowsurvey.html

https://www.maine.gov/dacf/mgs/hazards/snow_survey/snow_graphs.shtml

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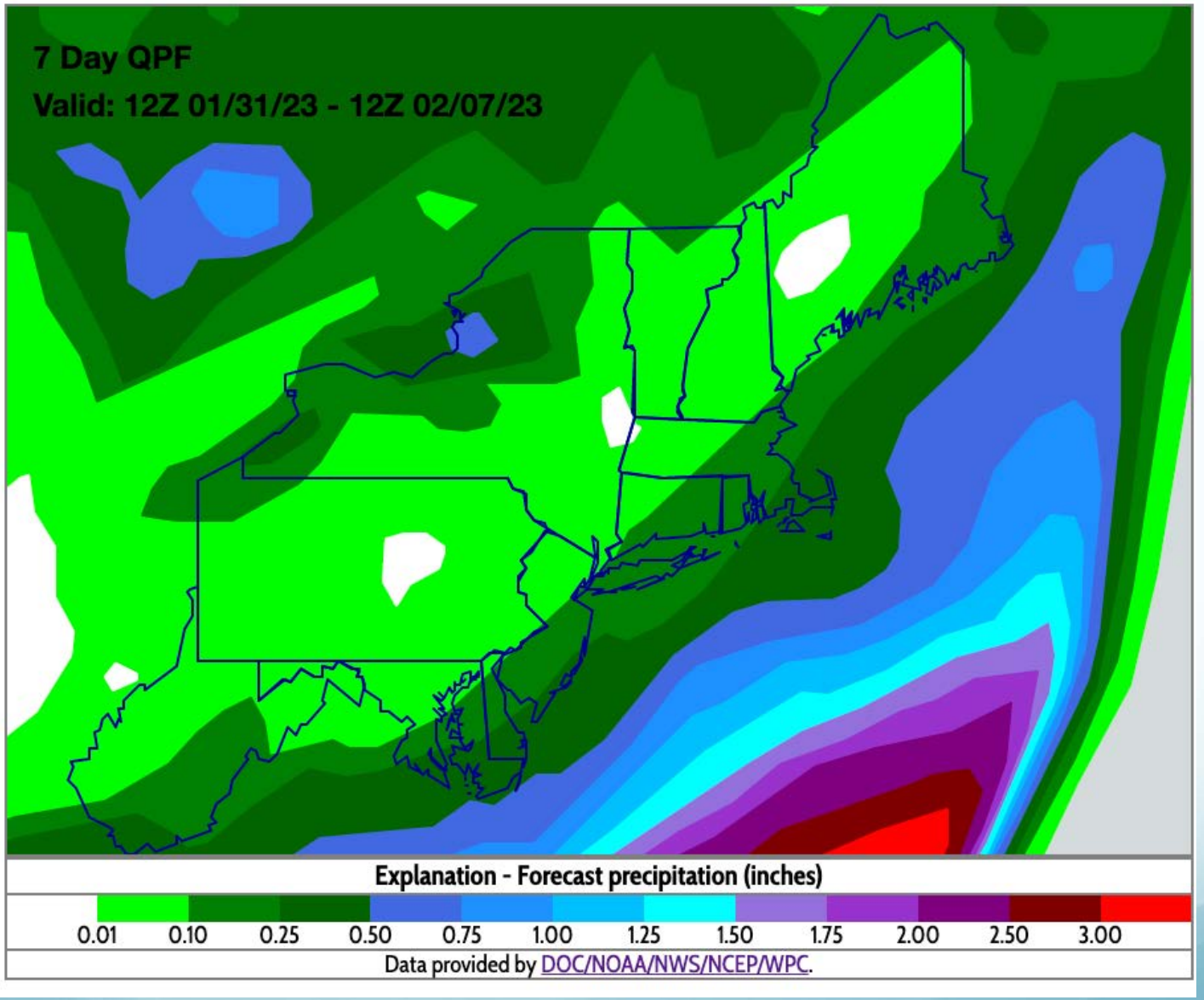
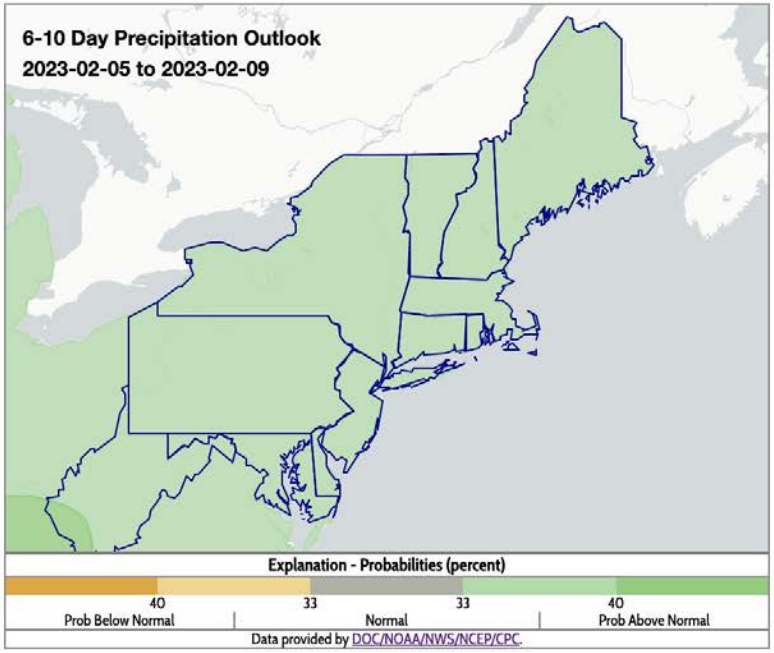
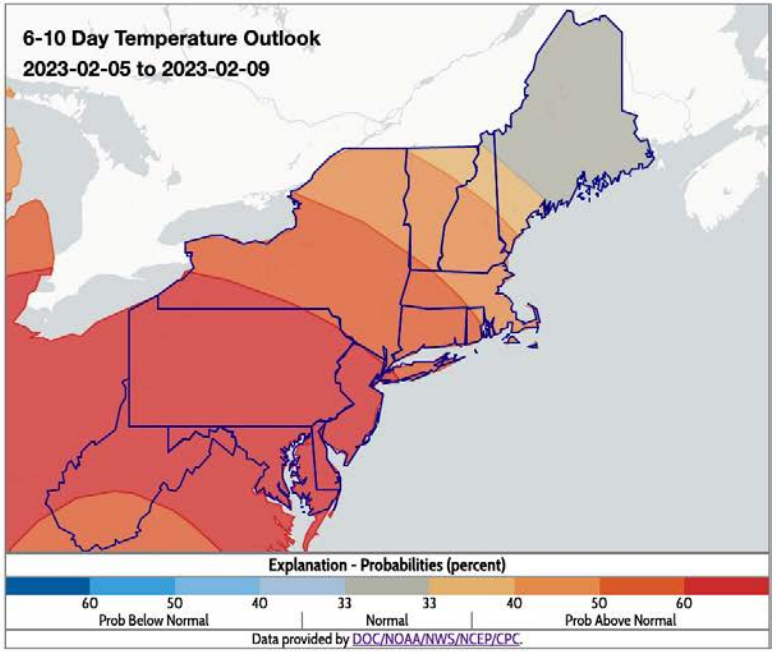
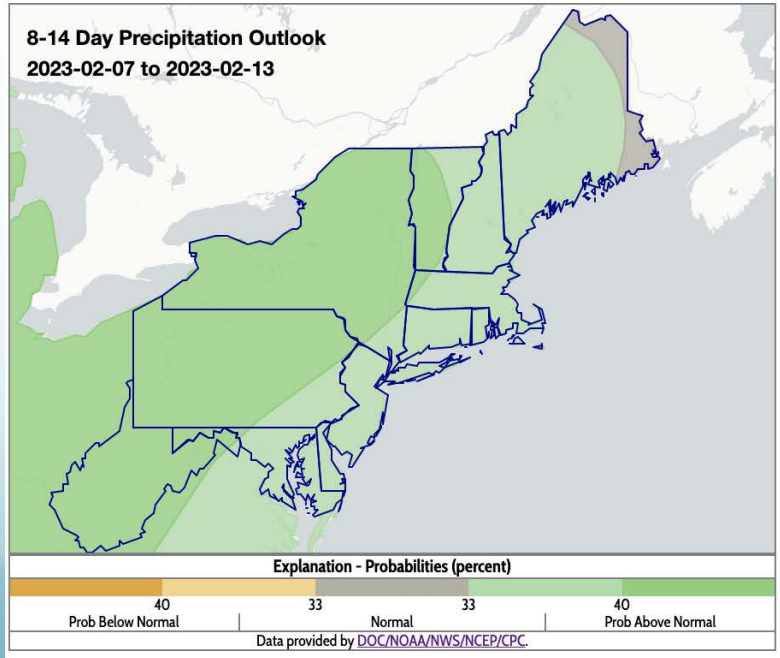
Precipitation Forecast

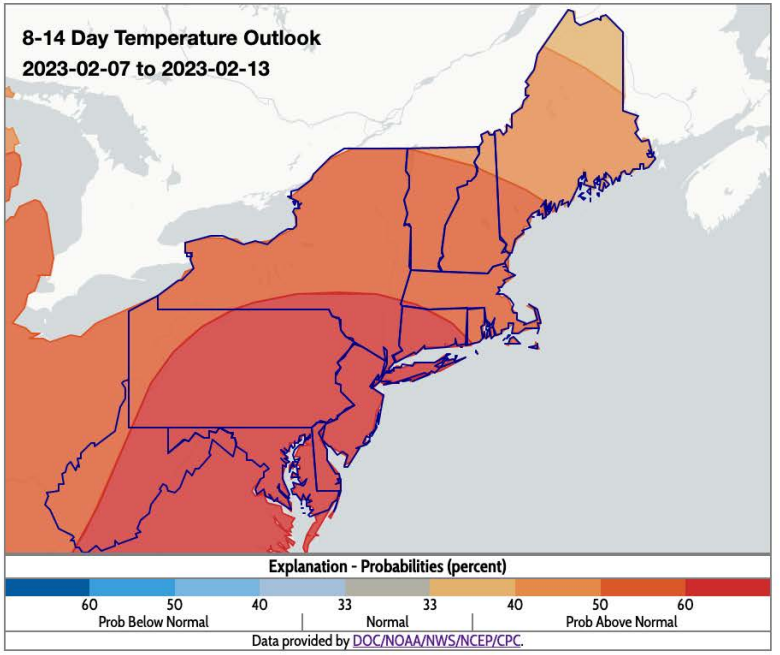


Short-term Outlooks

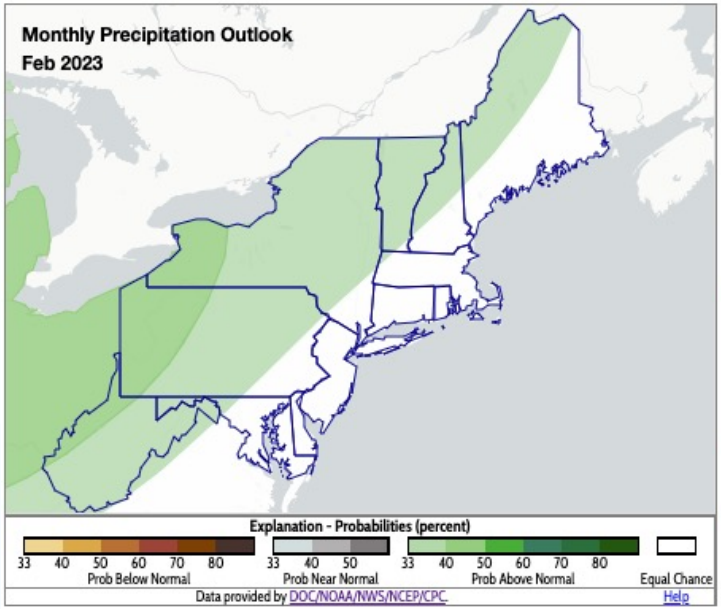


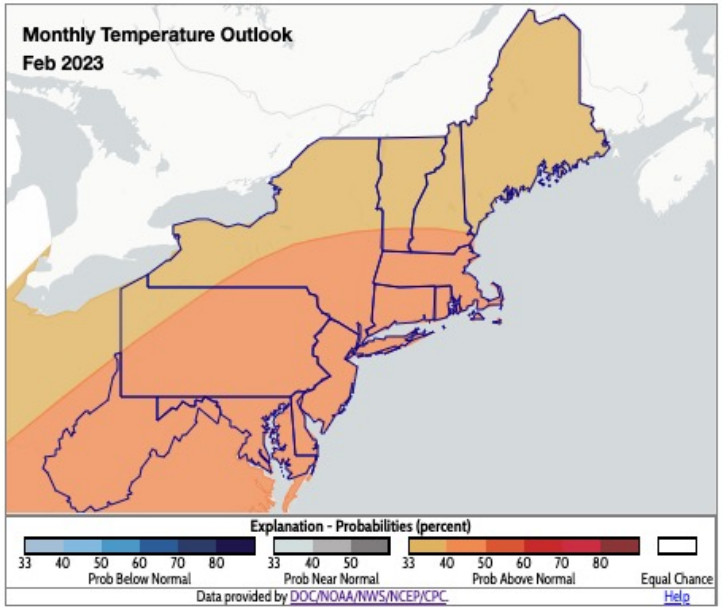


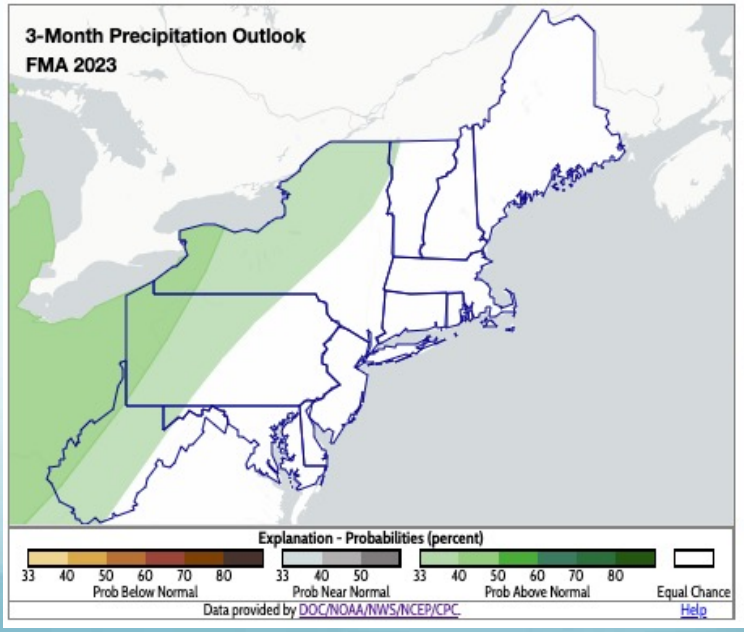


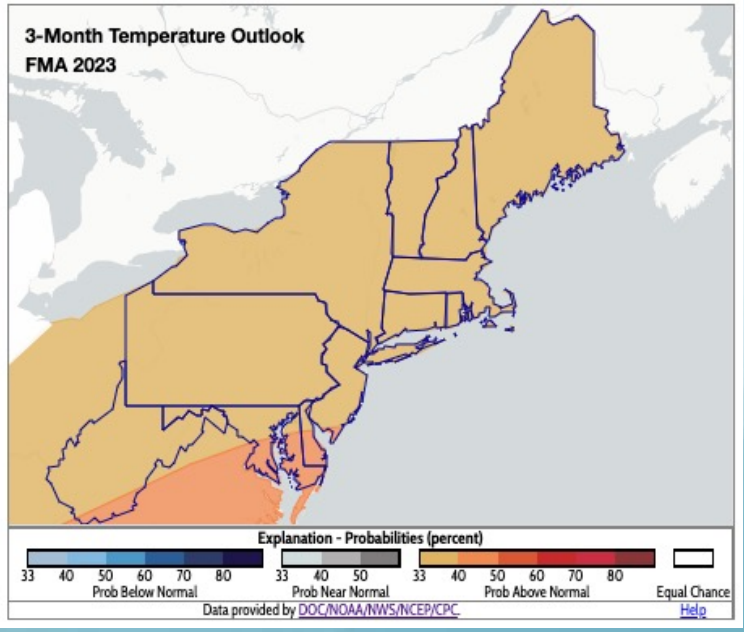


Monthly & 3-Month Outlooks





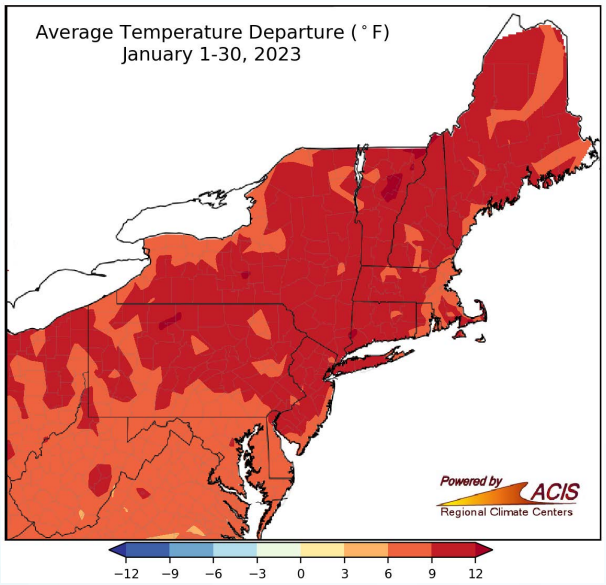




Summary

January-to-date conditions:

- Well-above-normal temperatures – top 5 warmest likely for some sites
- Above-normal precipitation and below-normal snowfall for most areas – record late measurable snowfall for a few sites



Drought:

- Wetter weather eased dryness in most of New England
- Abnormal dryness introduced in parts of West Virginia and Maryland that were drier

Outlooks:

- Short-term: above-normal precipitation and above-normal temperatures favored for most areas
- February/Feb-Apr: above-normal precipitation favored for interior areas and above-normal temperatures favored for all

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Contact Information

- nrcc@cornell.edu

Upcoming Webinars

- Tuesday, February 28 at 9:30am EST
  - Climate Projections and Downscaling
- Thursday, March 30 at 9:30am EST
  - Spring Flood Outlook
- Thursday, April 27 at 9:30am EST
  - TBD

www.nrcc.cornell.edu