

# February Recap & Northeast DEWS Discussion

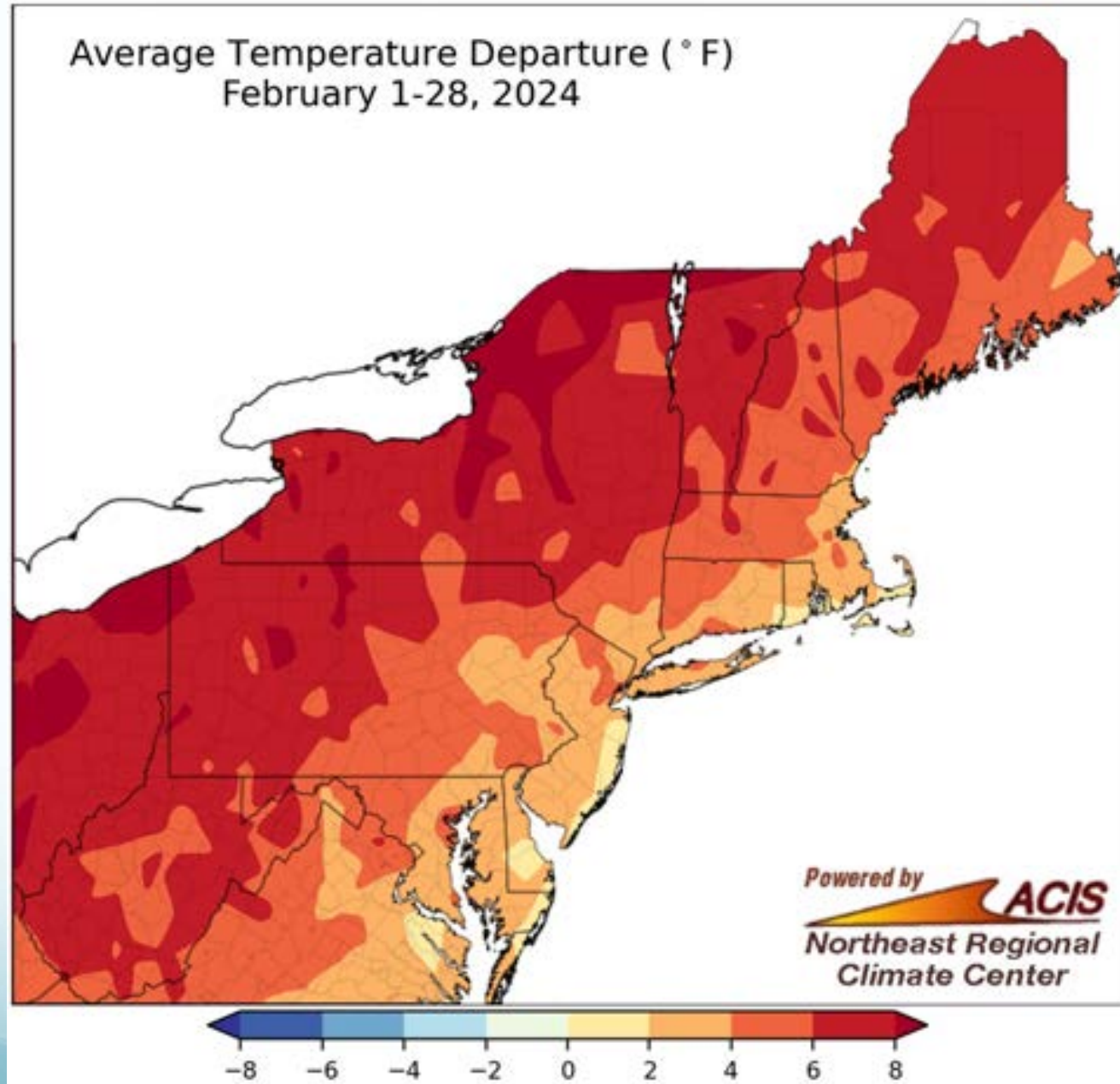
By: Samantha Borisoff, Climatologist  
Northeast Regional Climate Center



Northeast Regional  
Climate Center

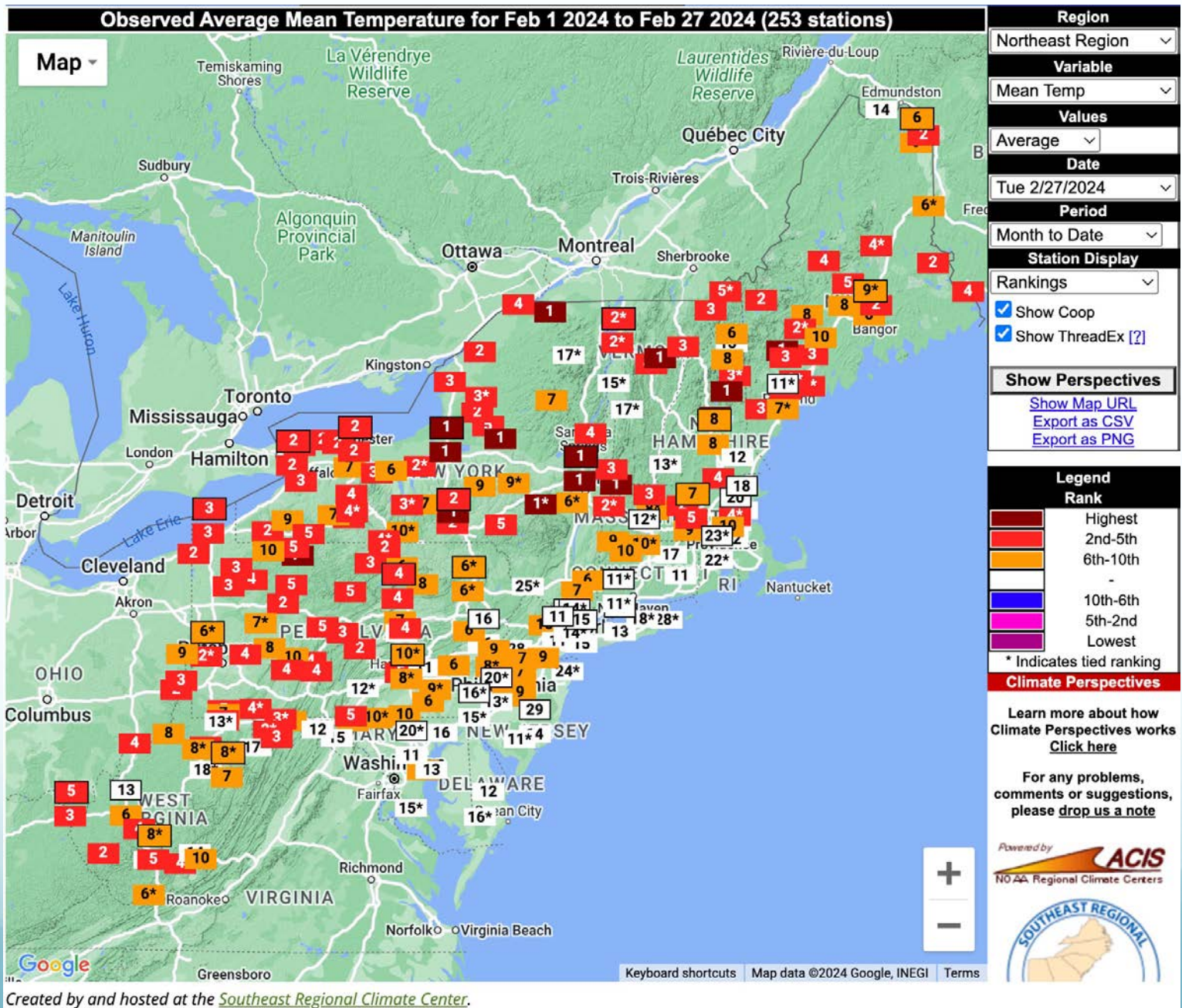


# February Temperatures



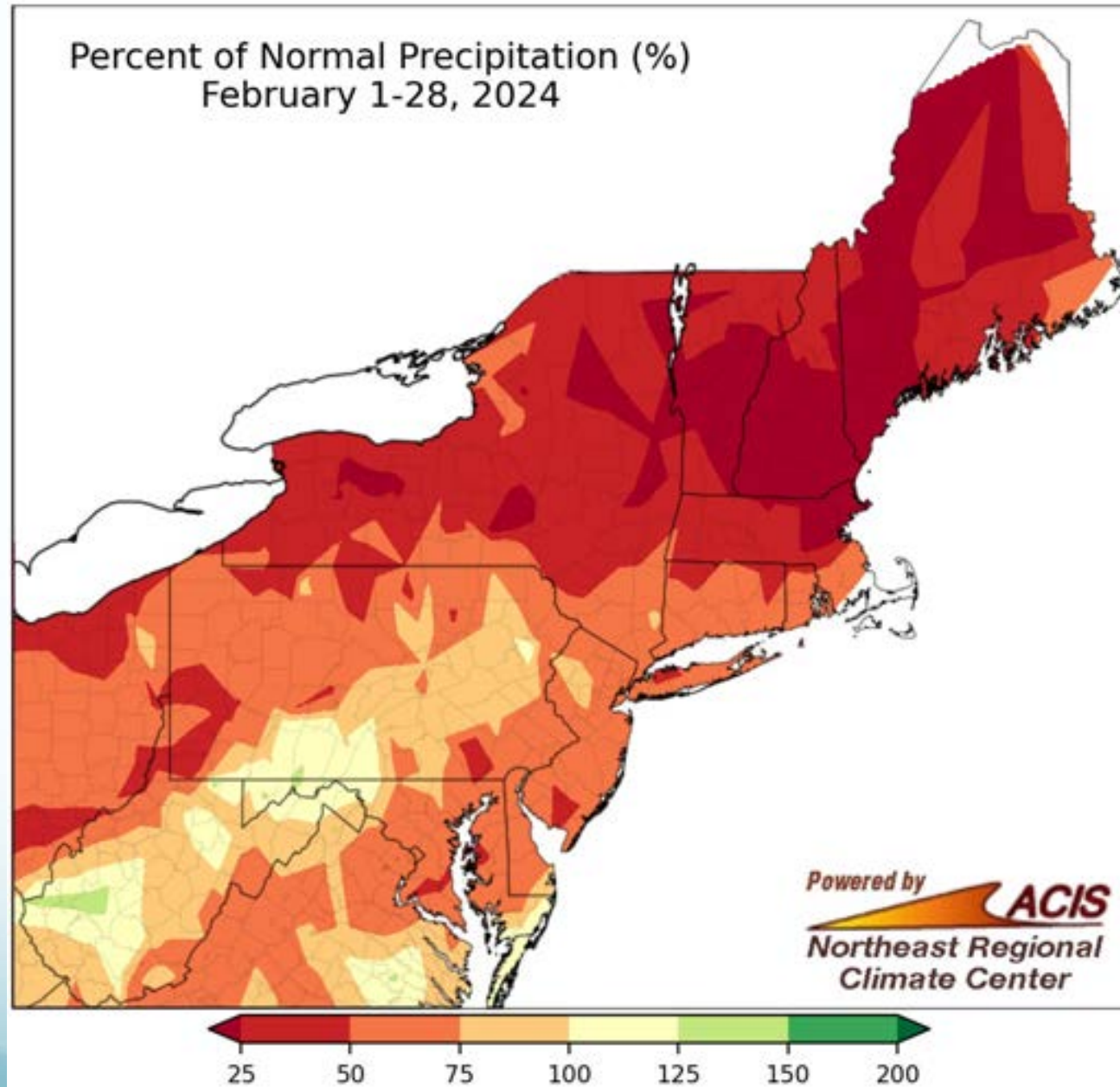
From near normal to more than 8°F above normal

# February Temperatures





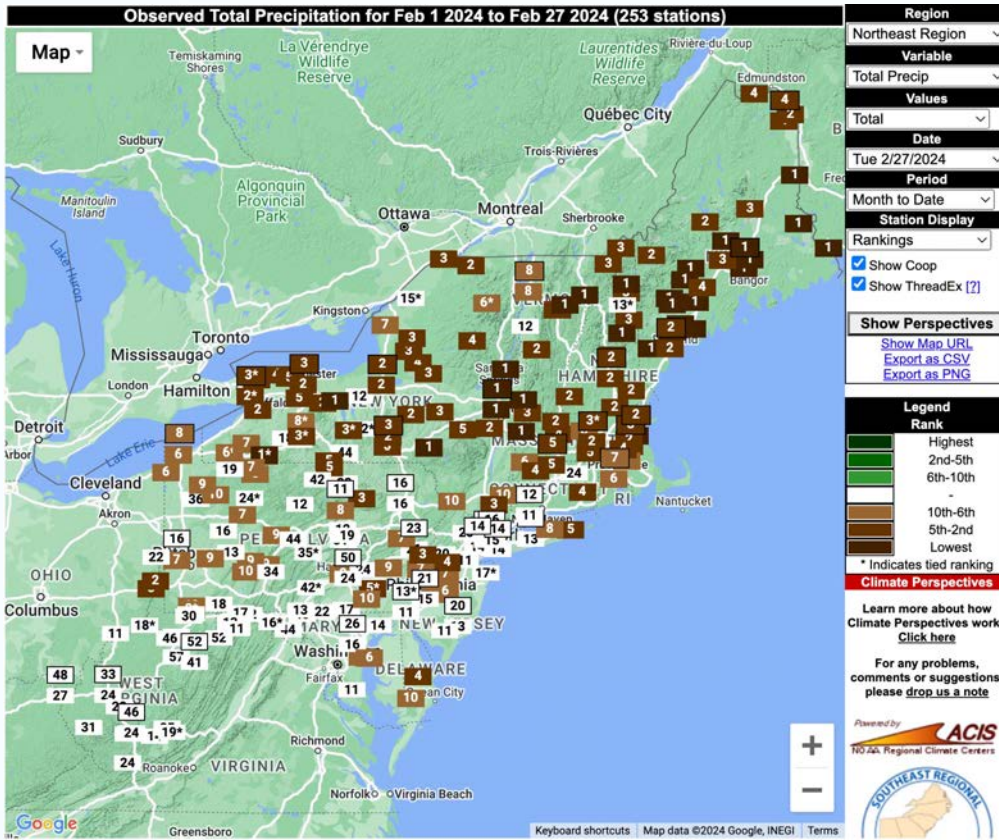
# February Precipitation



From less than 25% of normal to 150% of normal



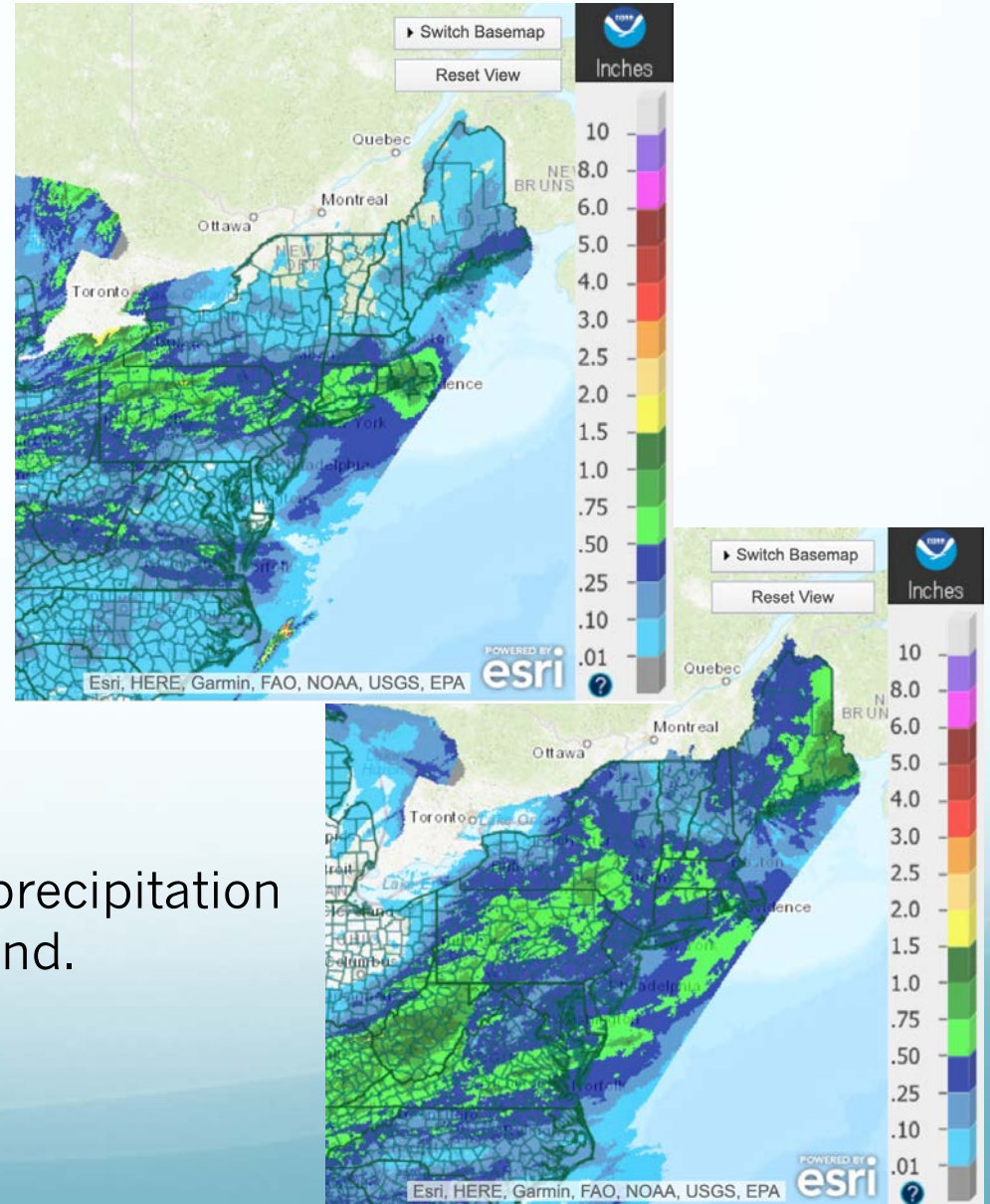
# February Precipitation



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

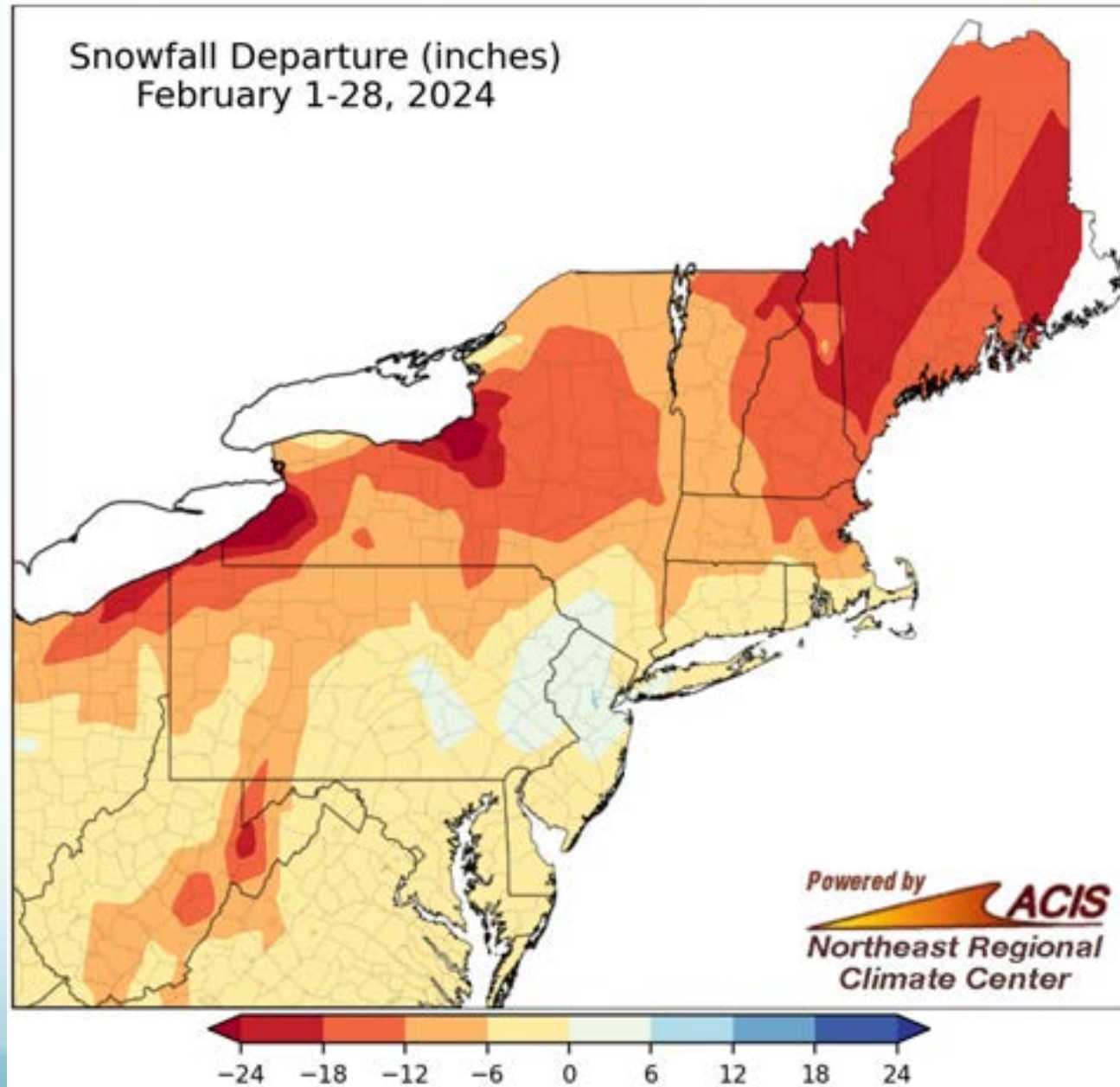
Record or near-record dry for most of the month, but...

some much-needed precipitation at month's end.





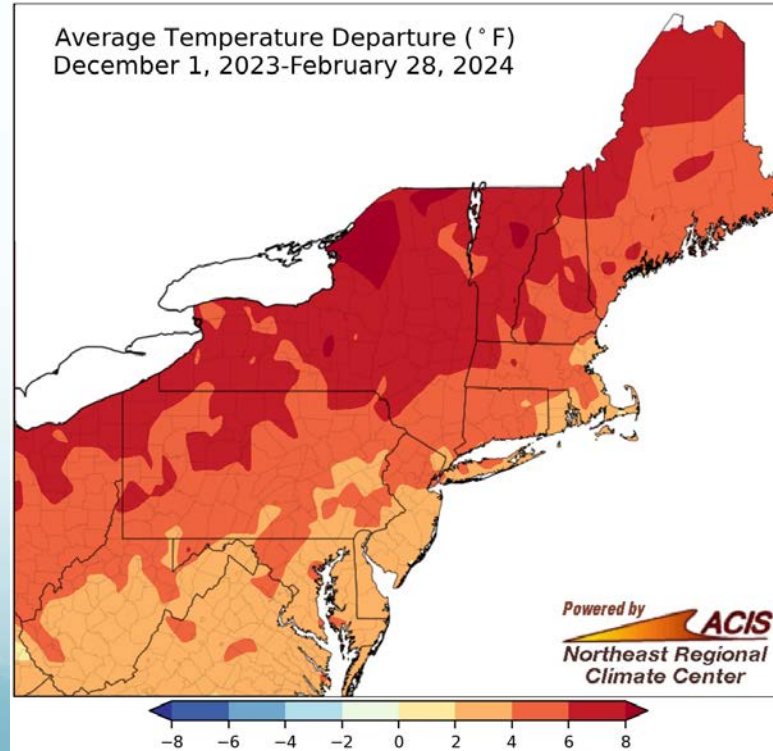
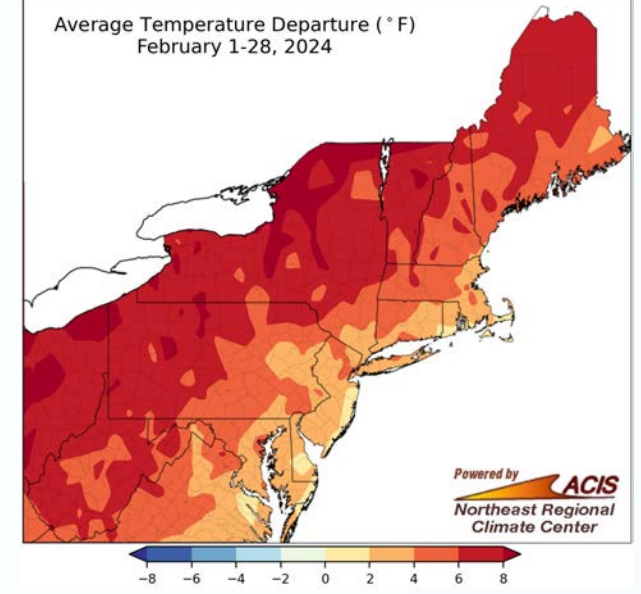
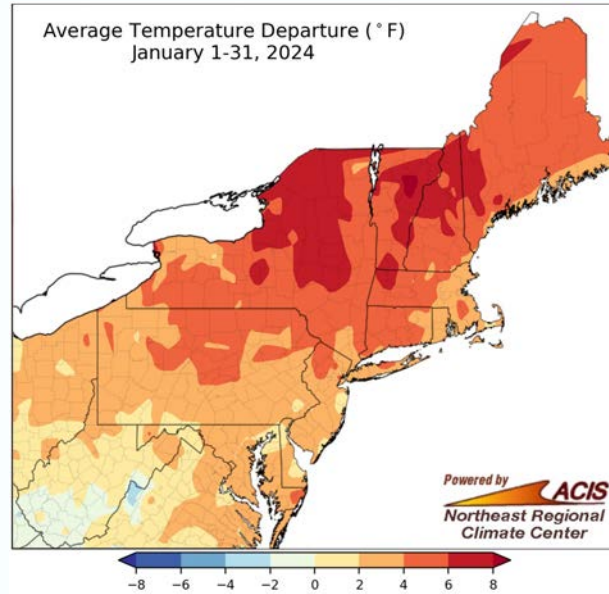
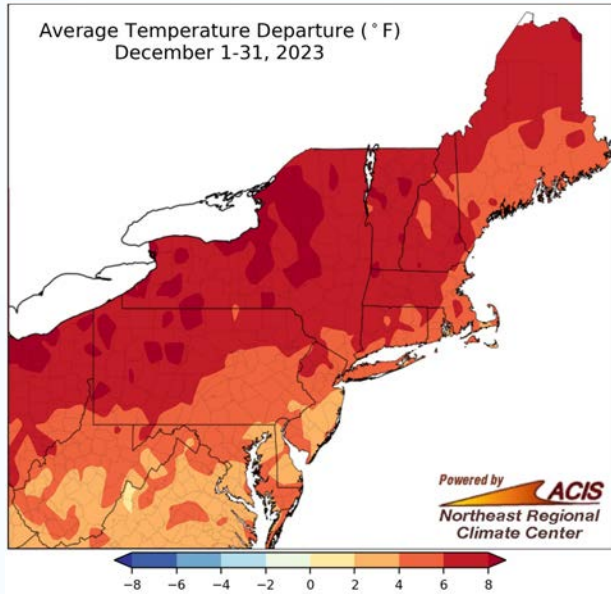
# February Snowfall



From more than 24" below normal to 6" above normal



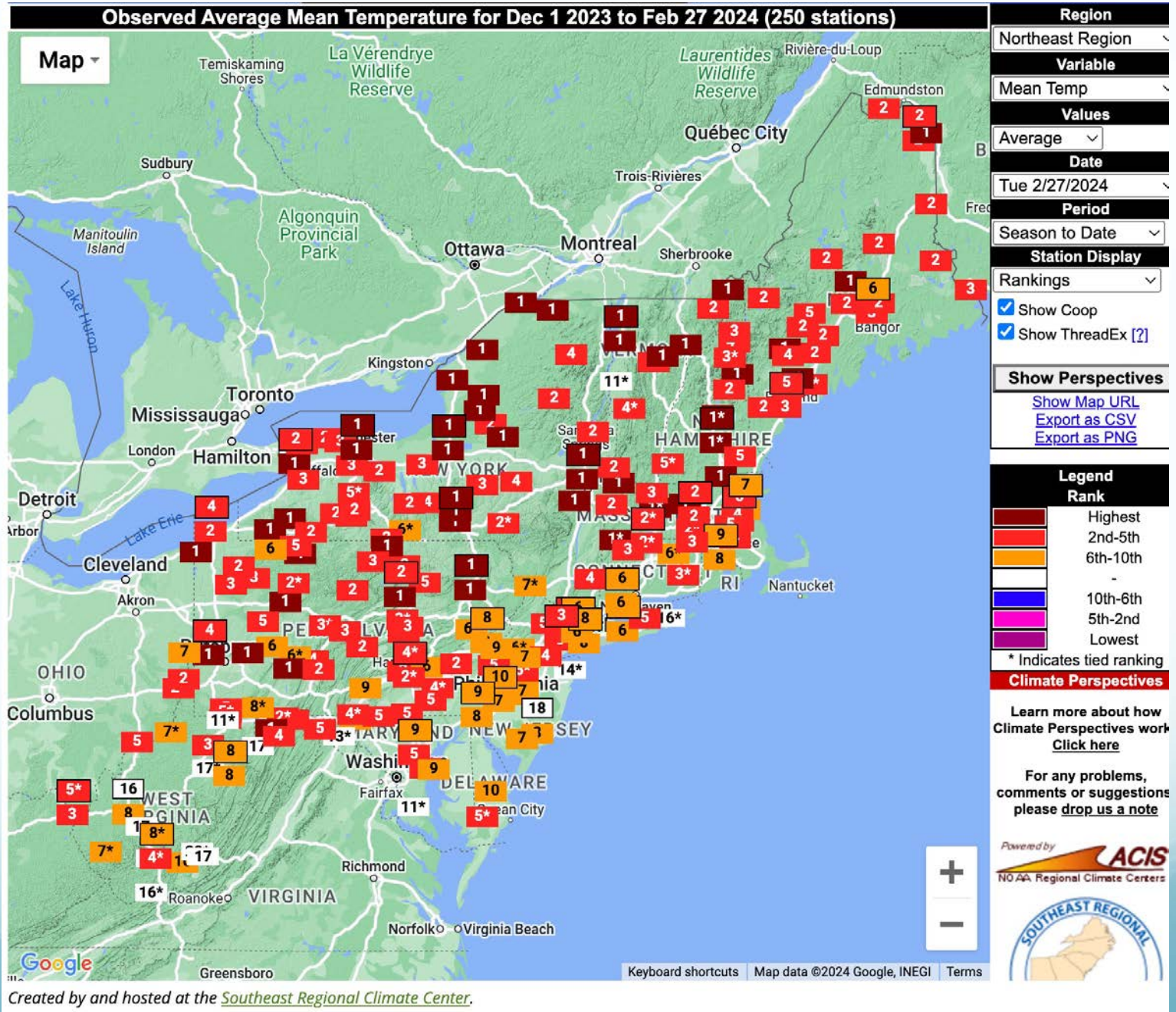
# Winter Temperatures



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

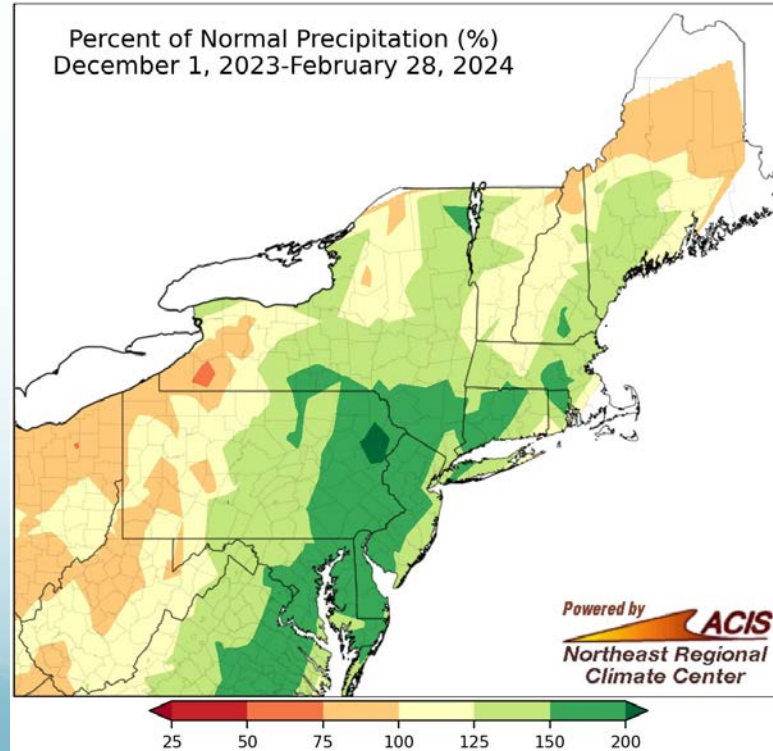
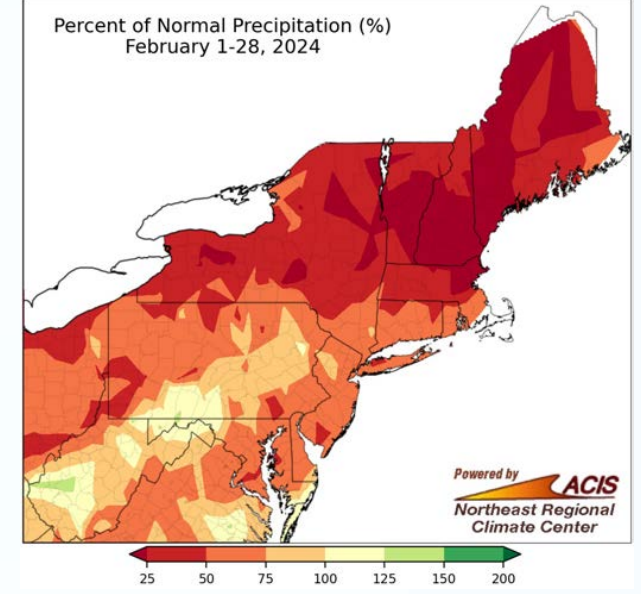
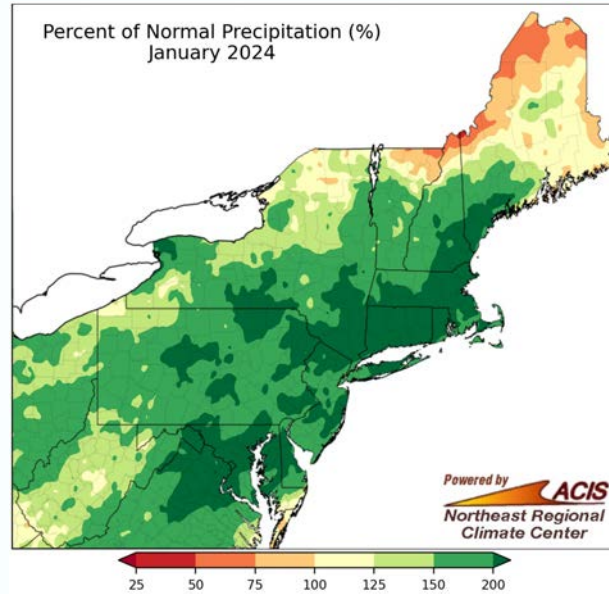
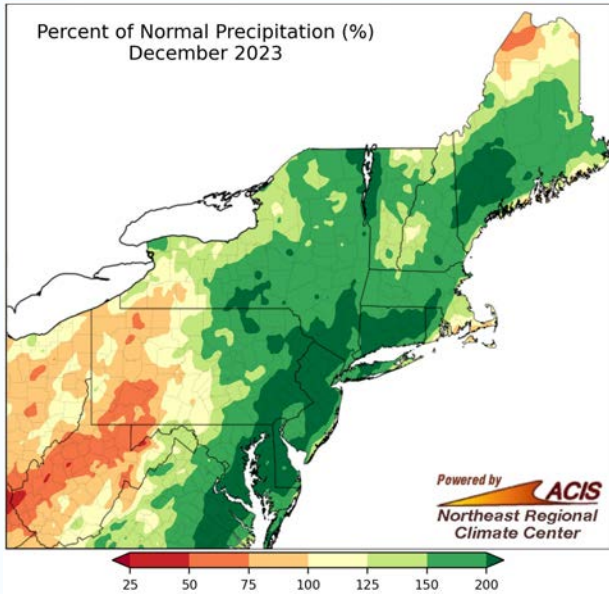


# Winter Temperatures



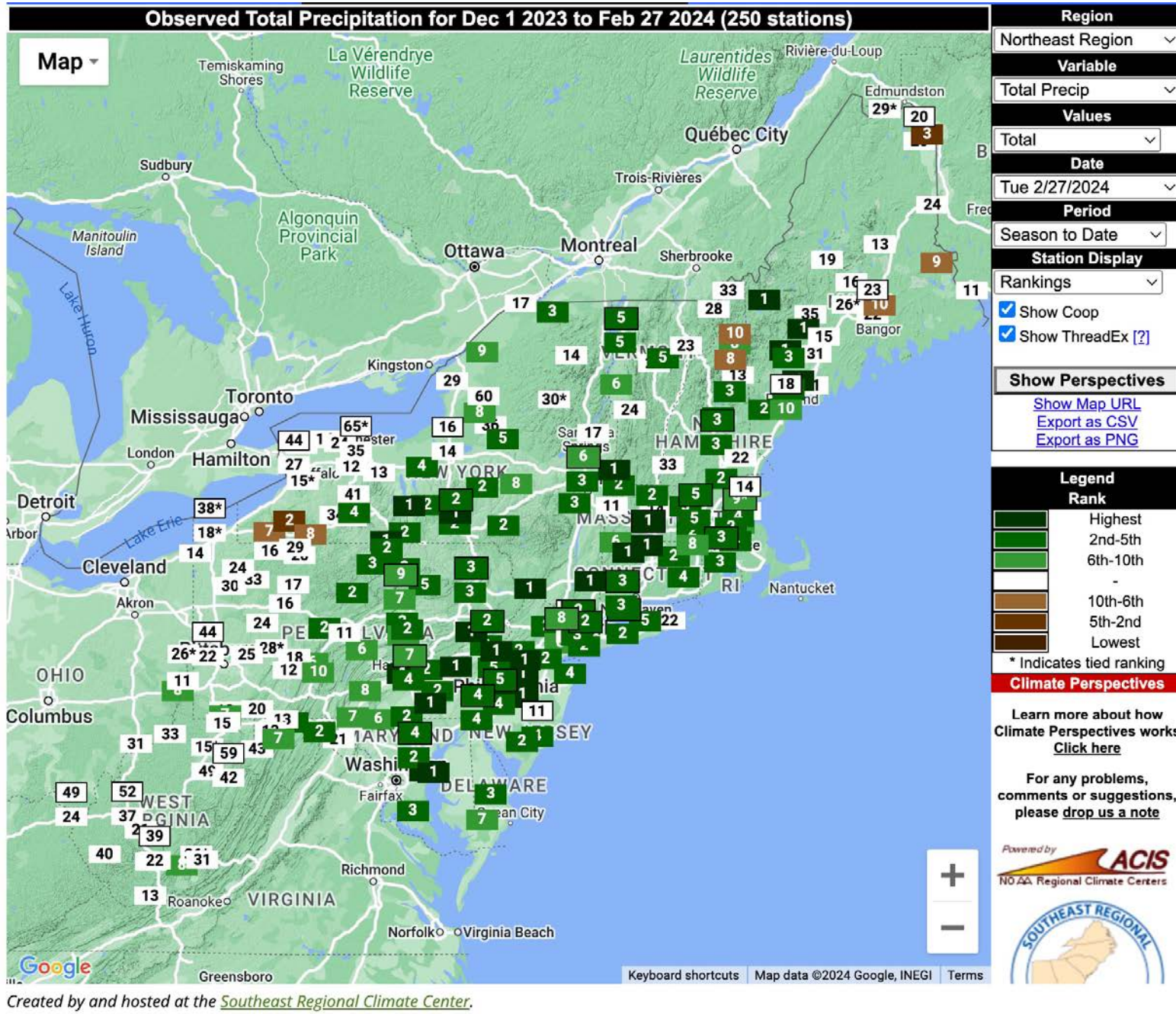


# Winter Precipitation



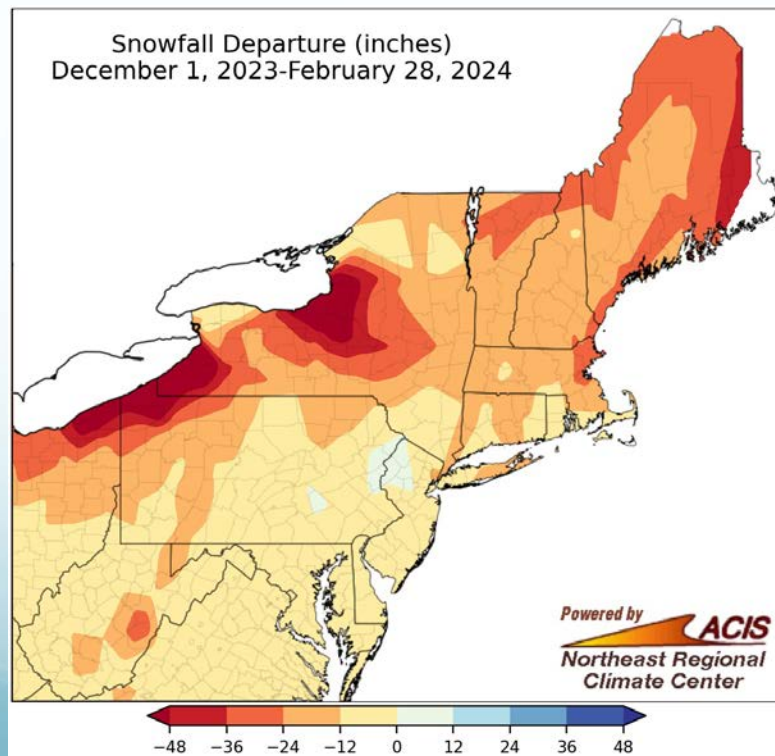
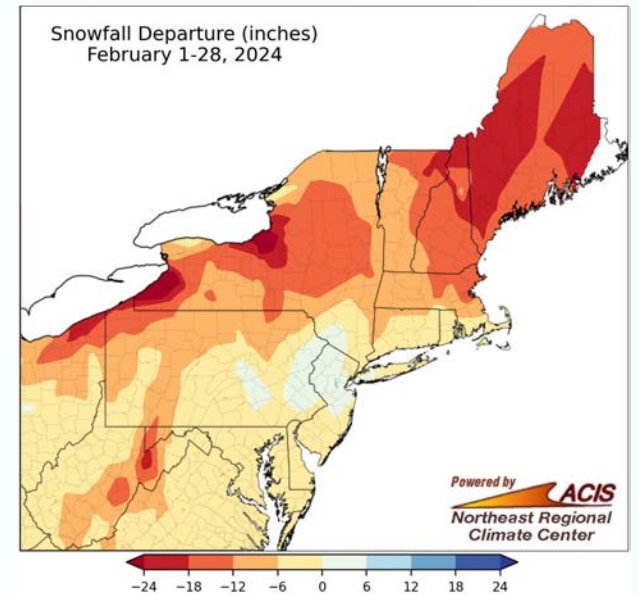
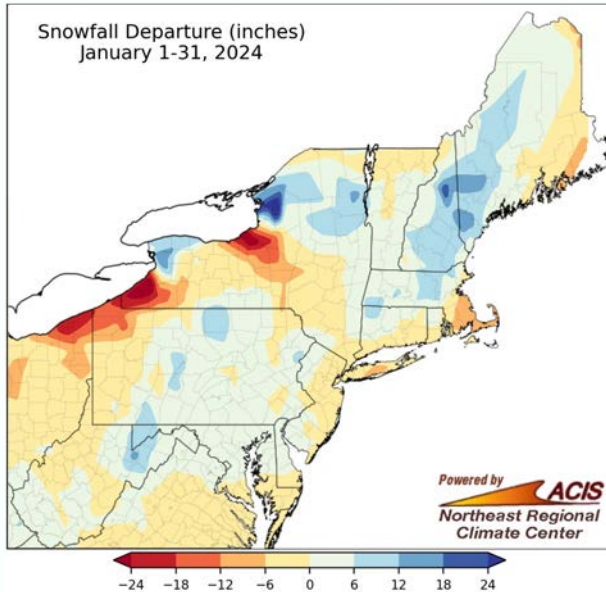
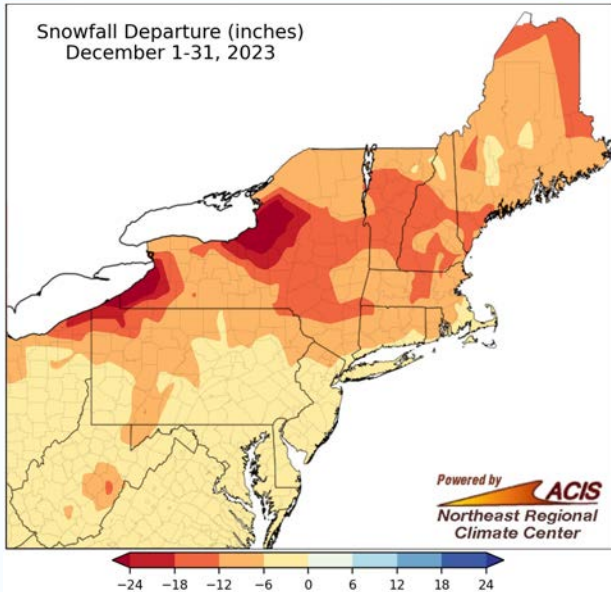
From 75% of normal to  
200% of normal

# Winter Precipitation



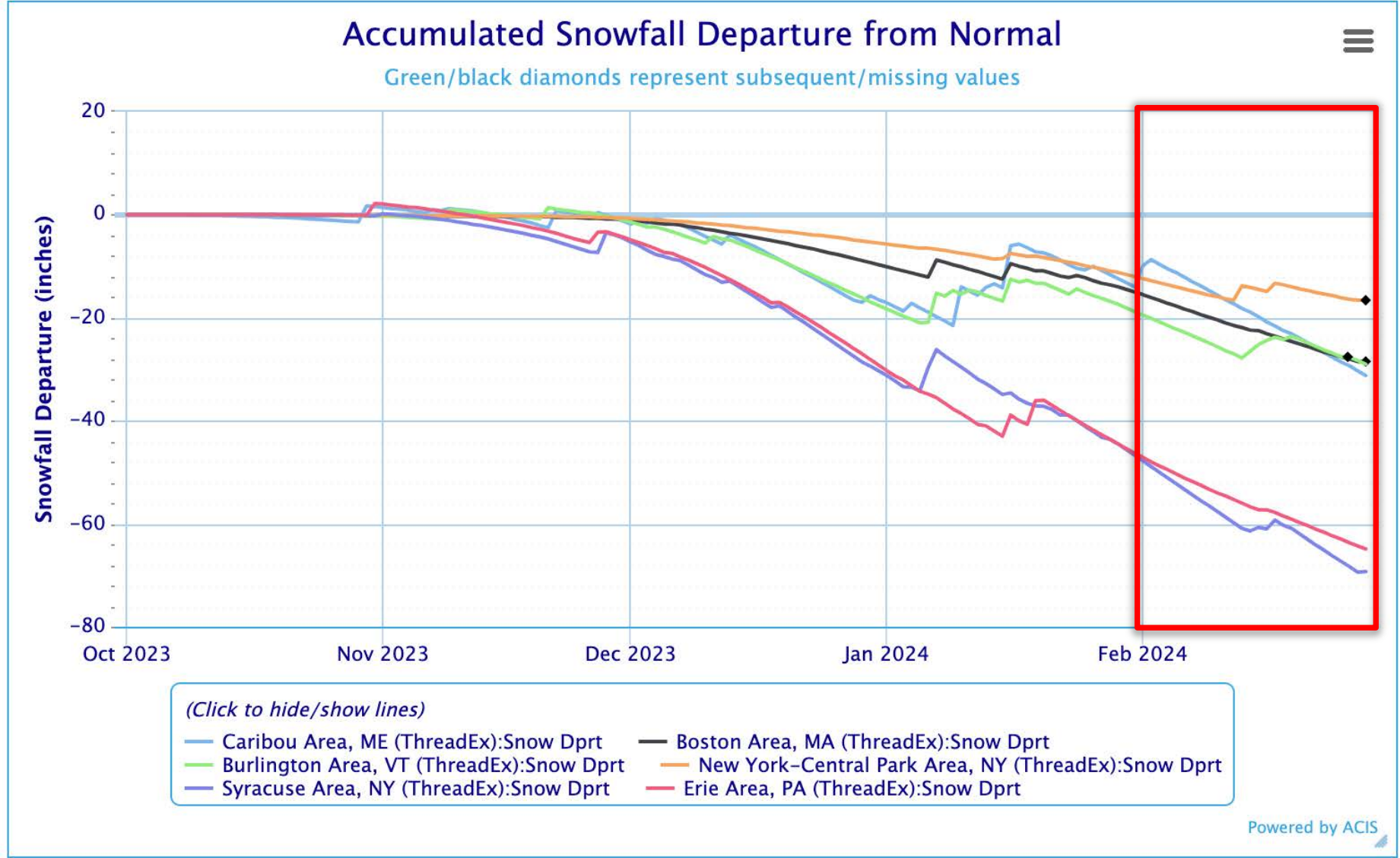


# Winter Snowfall



From more than 48”  
below normal to 12”  
above normal – note  
different scale for  
winter map!

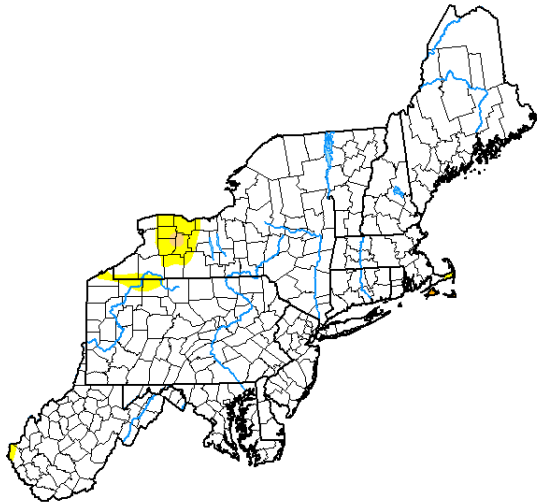
# Snowfall





# Drought Monitor

## U.S. Drought Monitor Northeast



**January 30, 2024**  
(Released Thursday, Feb. 1, 2024)  
Valid 7 a.m. EST

Drought Conditions (Percent Area)

|   | None  | D0    | D1   | D2   | D3   | D4   |
|---|-------|-------|------|------|------|------|
| <b>Current</b>                              | 96.89 | 2.85  | 0.19 | 0.07 | 0.00 | 0.00 |
| <b>Last Week</b><br>01-23-2024              | 94.62 | 3.95  | 1.37 | 0.07 | 0.00 | 0.00 |
| <b>3 Months Ago</b><br>10-31-2023           | 82.70 | 15.28 | 1.75 | 0.27 | 0.00 | 0.00 |
| <b>Start of Calendar Year</b><br>01-02-2024 | 87.20 | 10.30 | 1.83 | 0.67 | 0.00 | 0.00 |
| <b>Start of Water Year</b><br>09-26-2023    | 88.48 | 10.08 | 1.36 | 0.08 | 0.00 | 0.00 |
| <b>One Year Ago</b><br>01-31-2023           | 96.83 | 2.97  | 0.21 | 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>

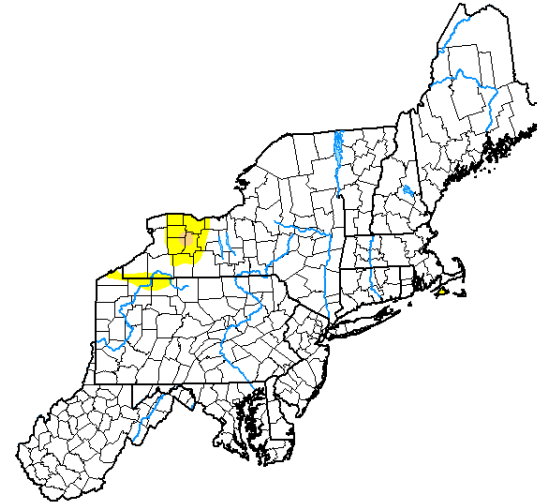
Author:

Brian Fuchs  
National Drought Mitigation Center



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

## 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><br>02-20-2024              | 97.07 | 2.72  | 0.21 | 0.00 | 0.00 | 0.00 |
| <b>3 Months Ago</b><br>11-28-2023           | 74.36 | 19.18 | 5.76 | 0.71 | 0.00 | 0.00 |
| <b>Start of Calendar Year</b><br>01-02-2024 | 87.20 | 10.30 | 1.83 | 0.67 | 0.00 | 0.00 |
| <b>Start of Water Year</b><br>09-26-2023    | 88.48 | 10.08 | 1.36 | 0.08 | 0.00 | 0.00 |
| <b>One Year Ago</b><br>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:

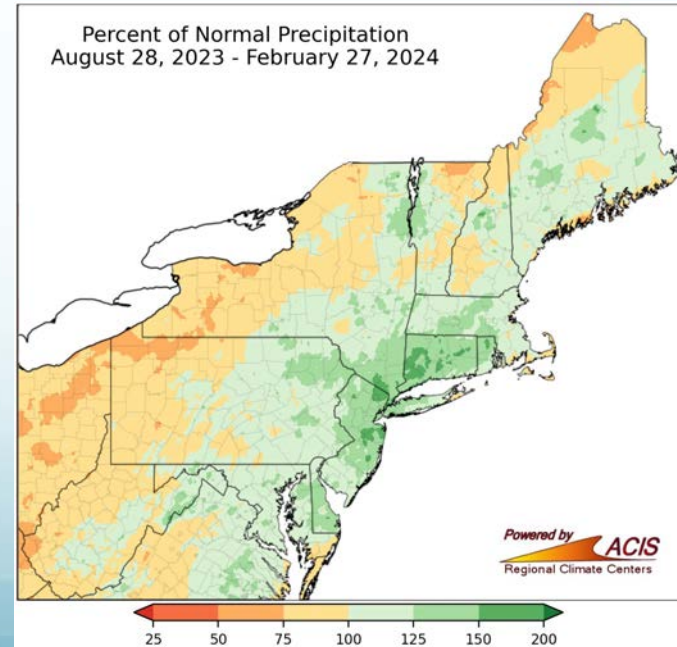
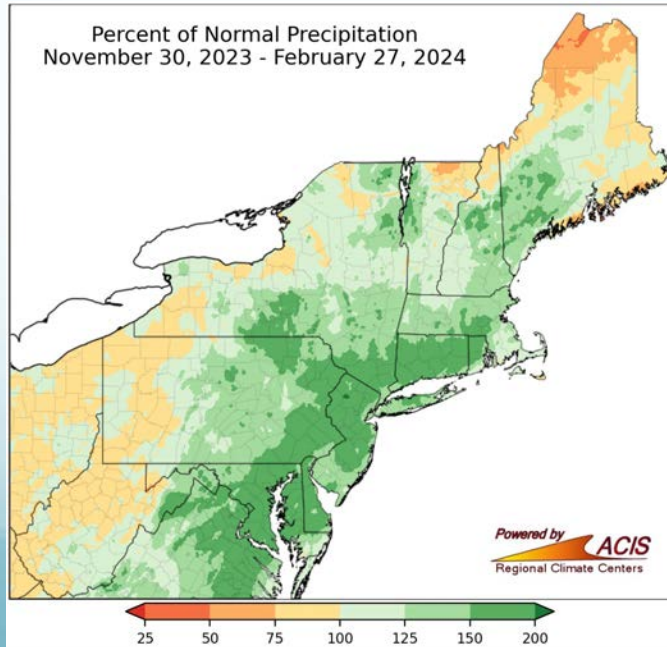
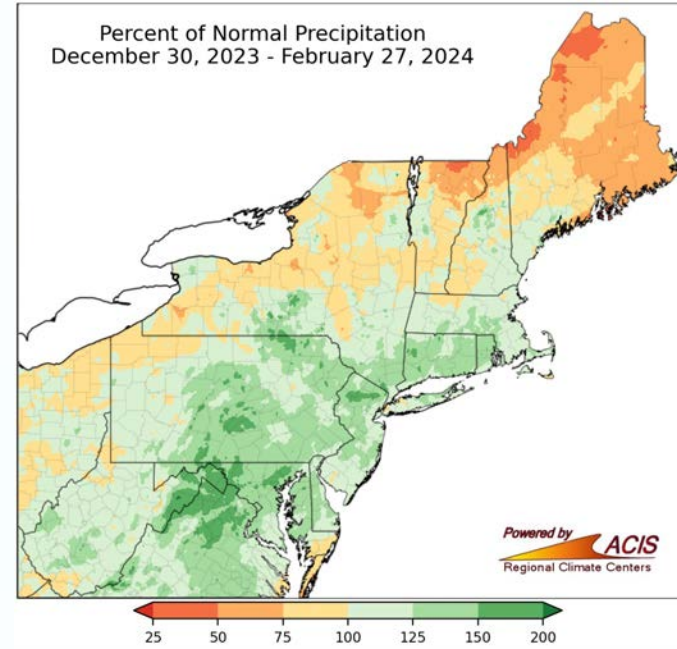
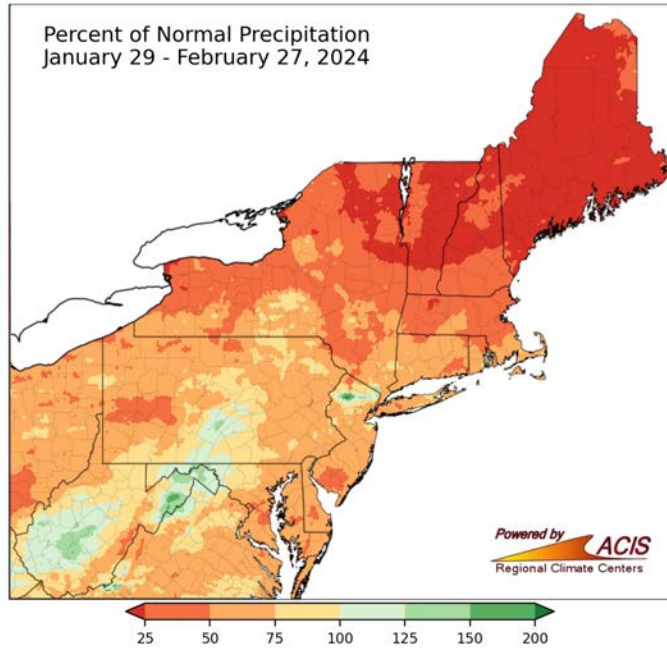
Richard Heim  
NCEI/NOAA



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

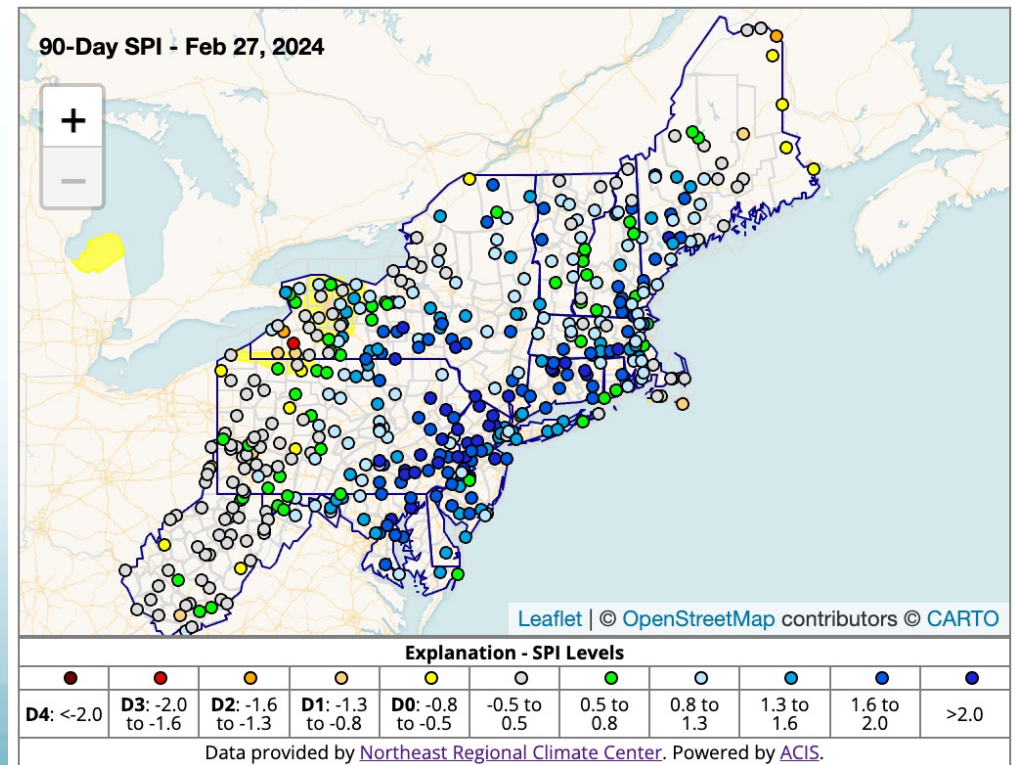
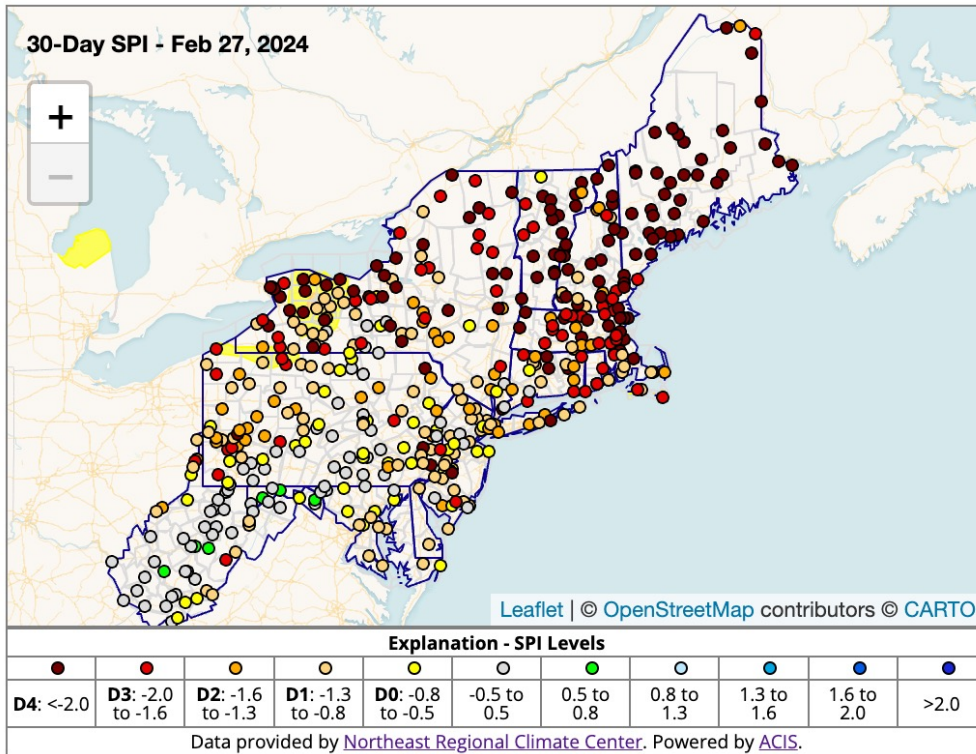


# Precipitation

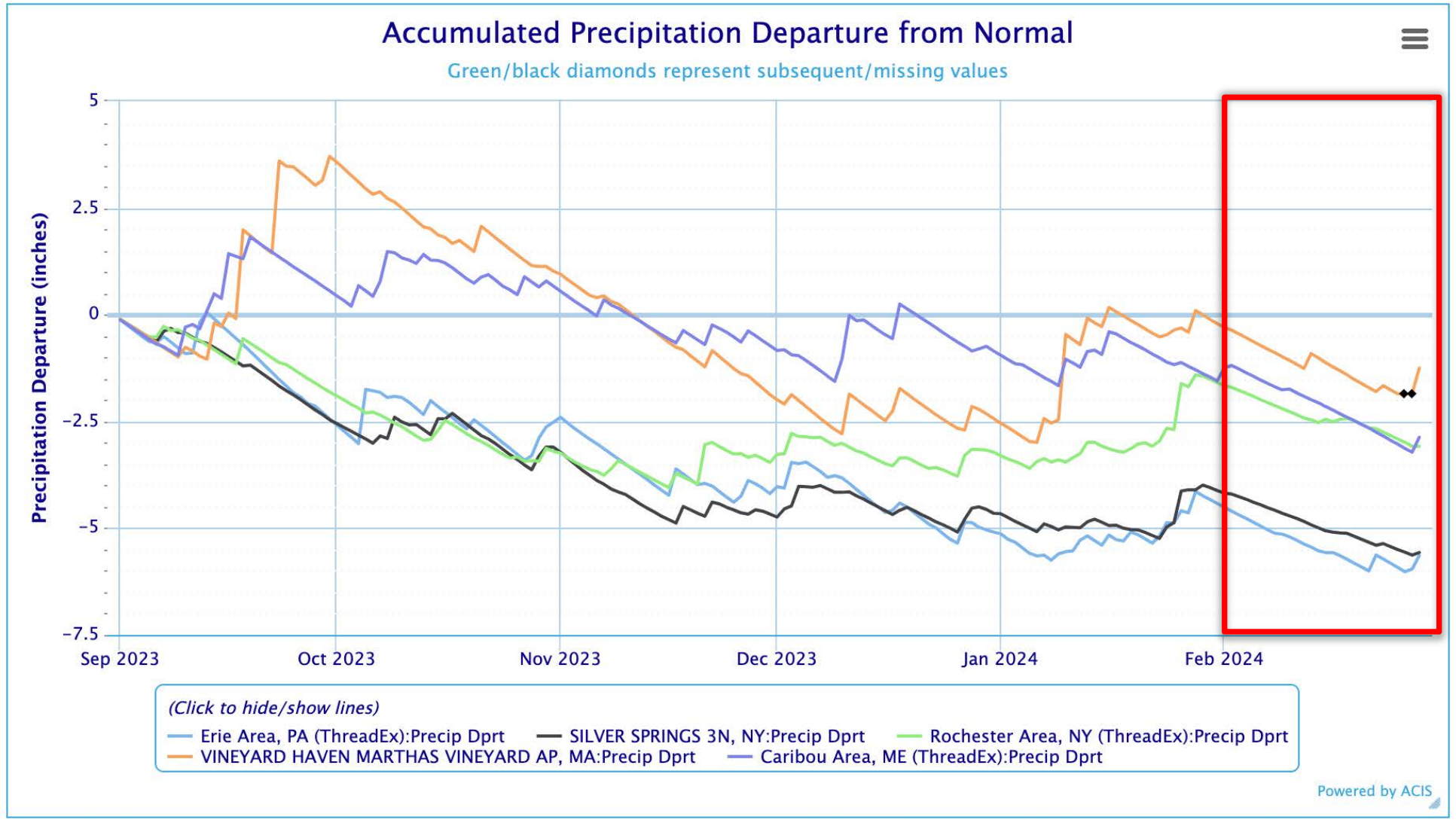




# Standardized Precipitation Index



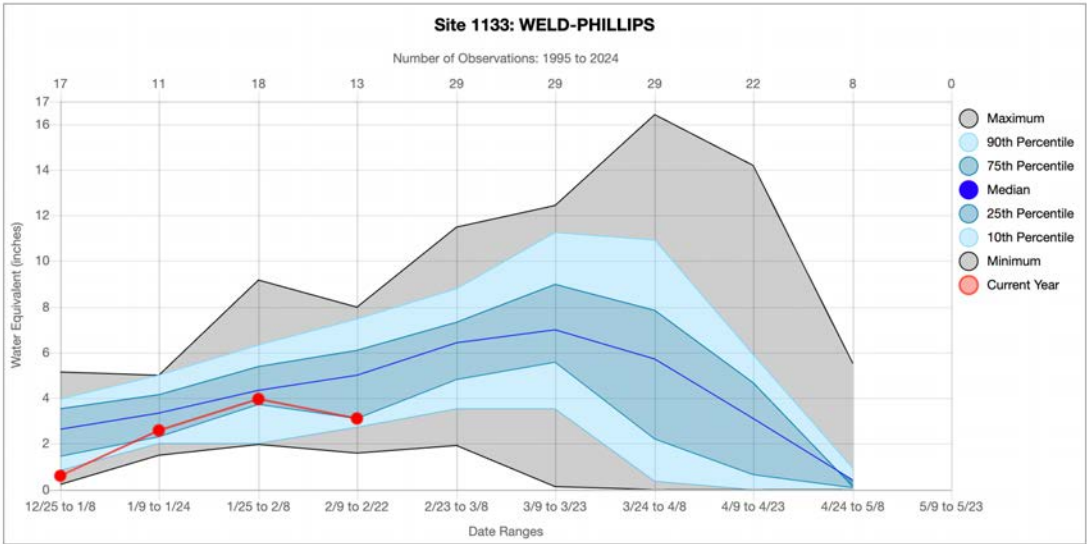
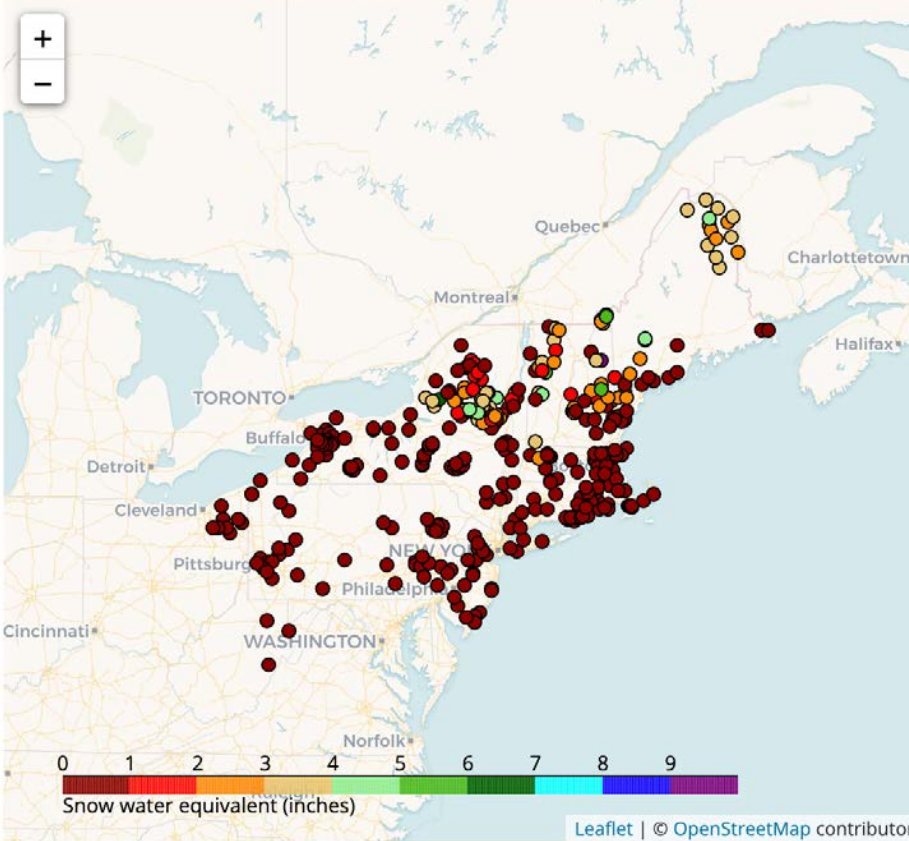
# Precipitation



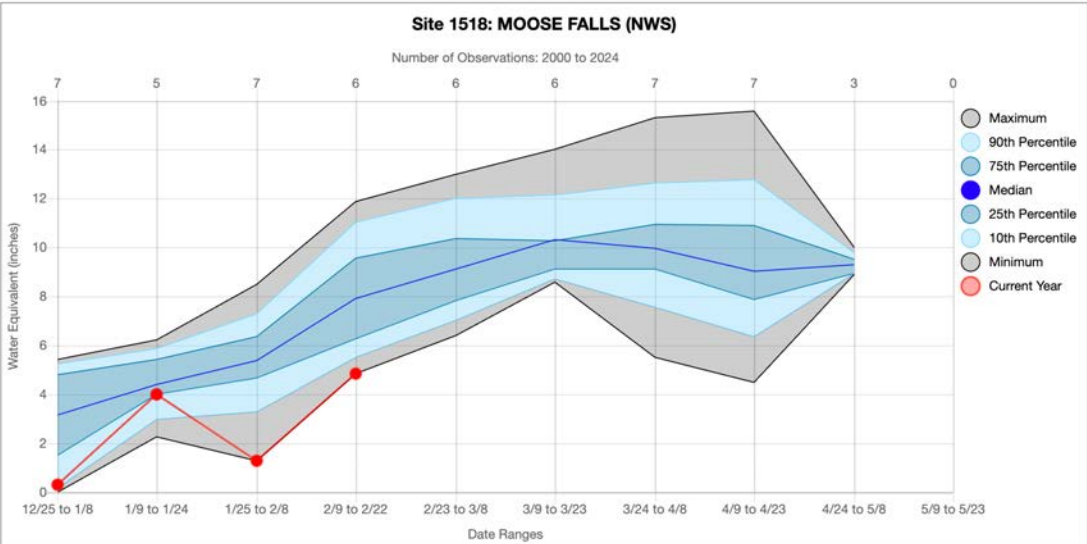


# SWE

## Snow Water Equivalent for February 25-28, 2024



Updated: February 14, 2024



Updated: February 14, 2024

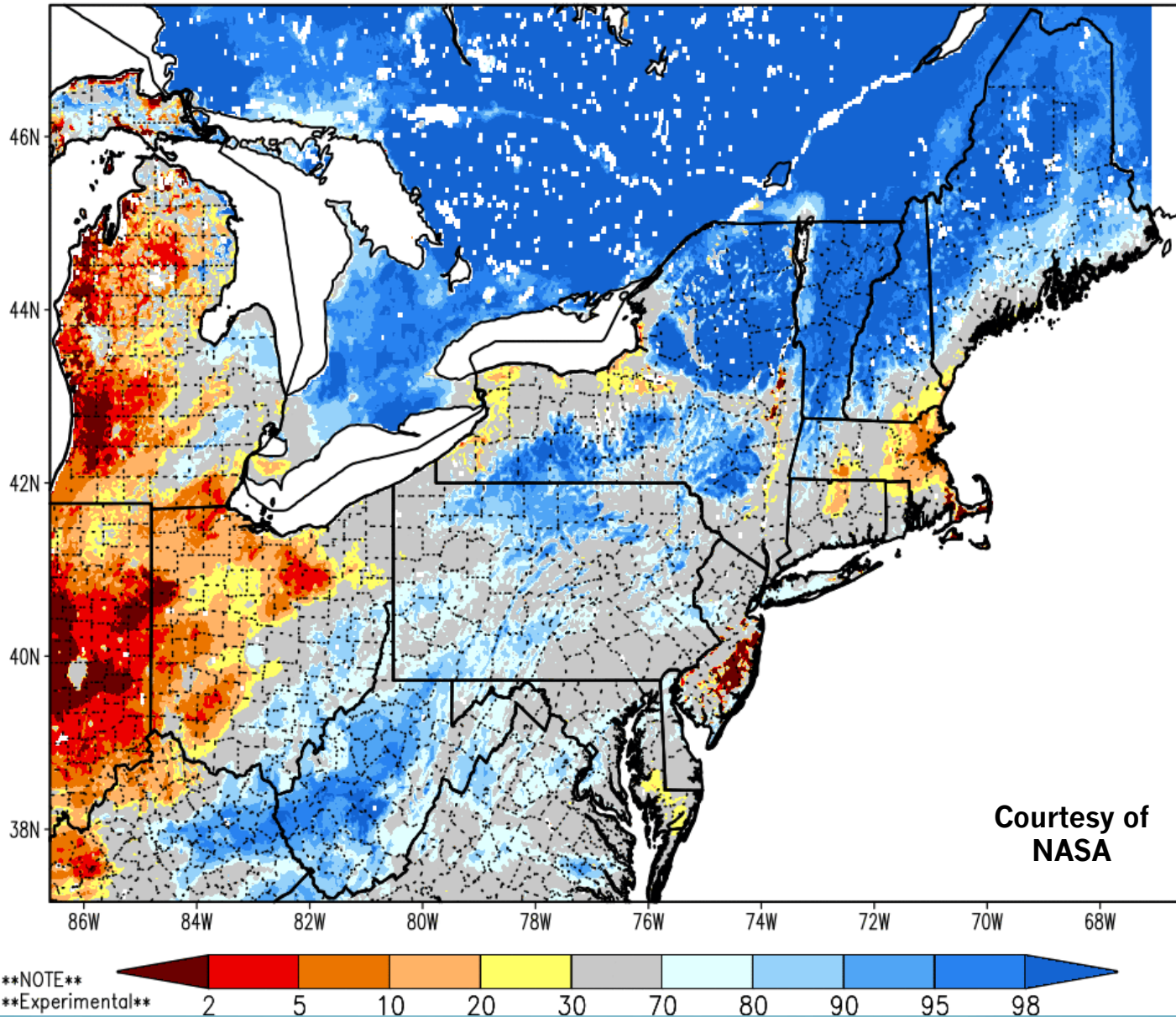
Note different dates for map and graphs!



Graphs courtesy of Maine Geological Survey

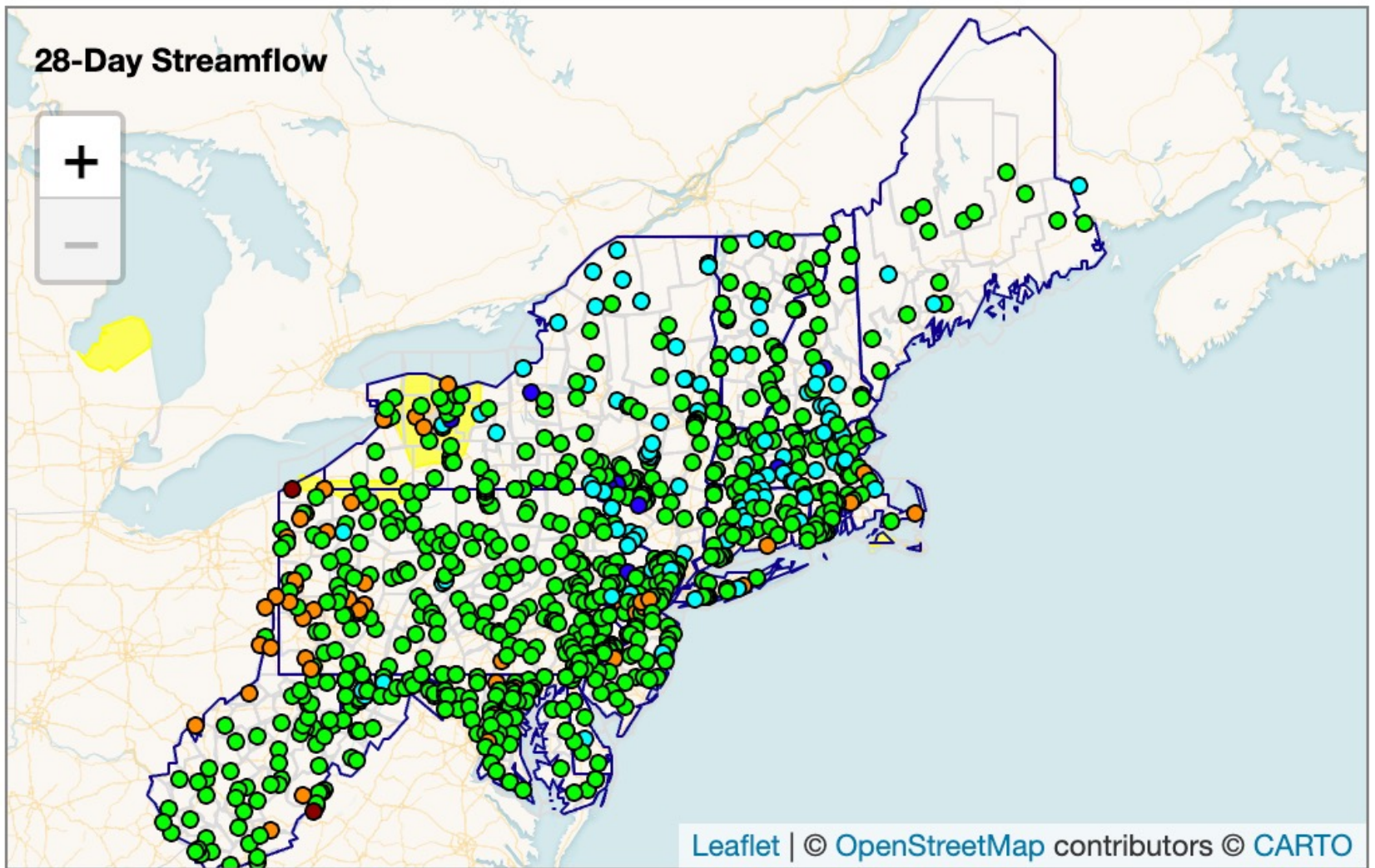
# Soil Moisture

SPoRT-LIS 0-100 cm Soil Moisture percentile valid 29 Feb 2024





# Streamflow



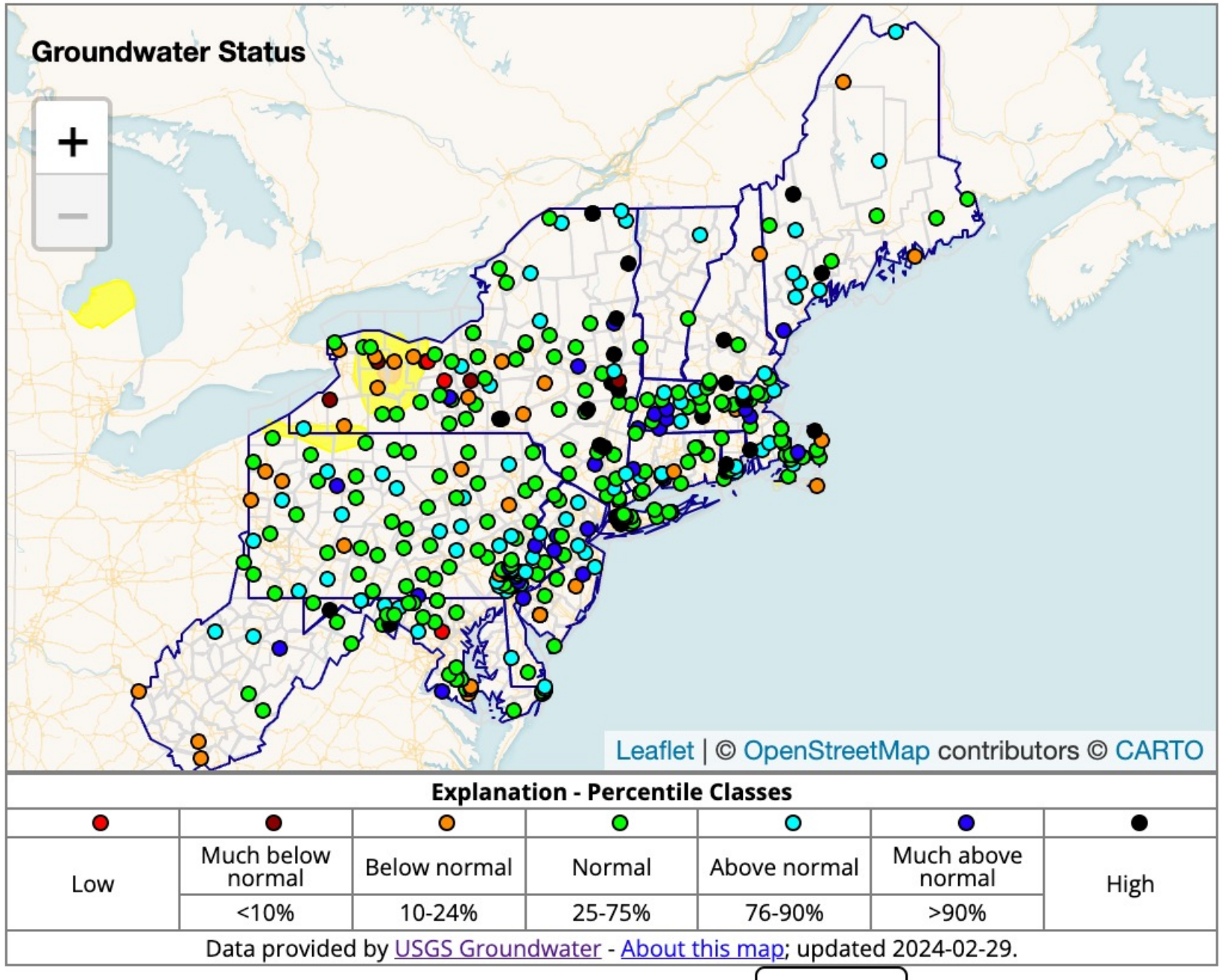
**Explanation - Percentile Classes**

| 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 2024-02-28.

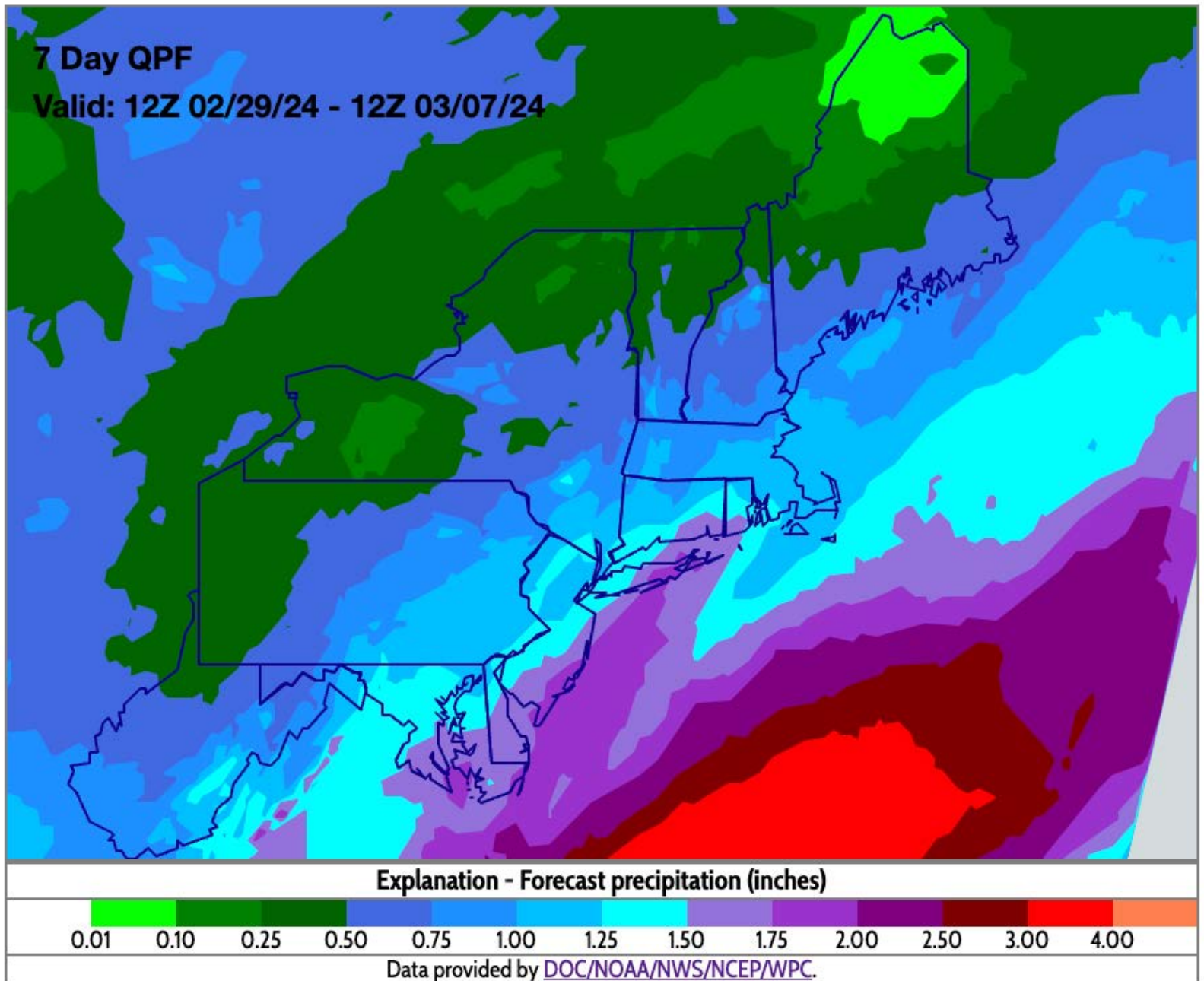


# Groundwater

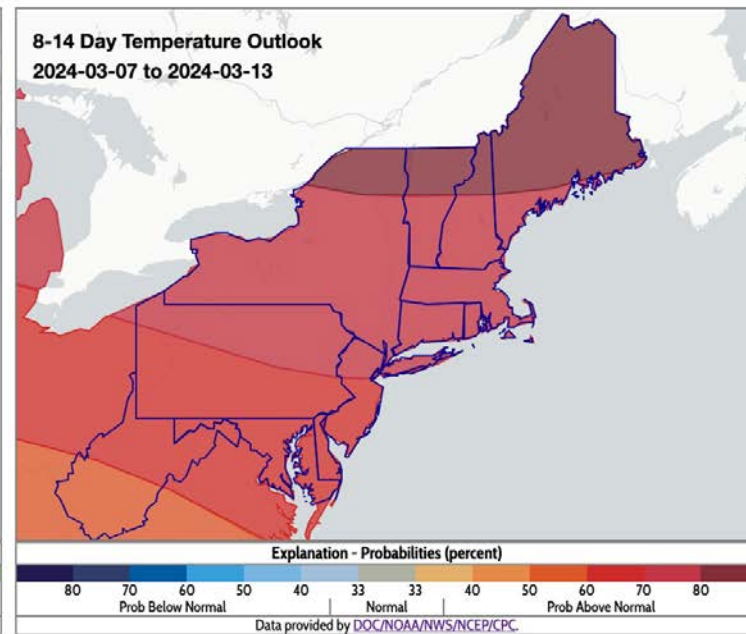
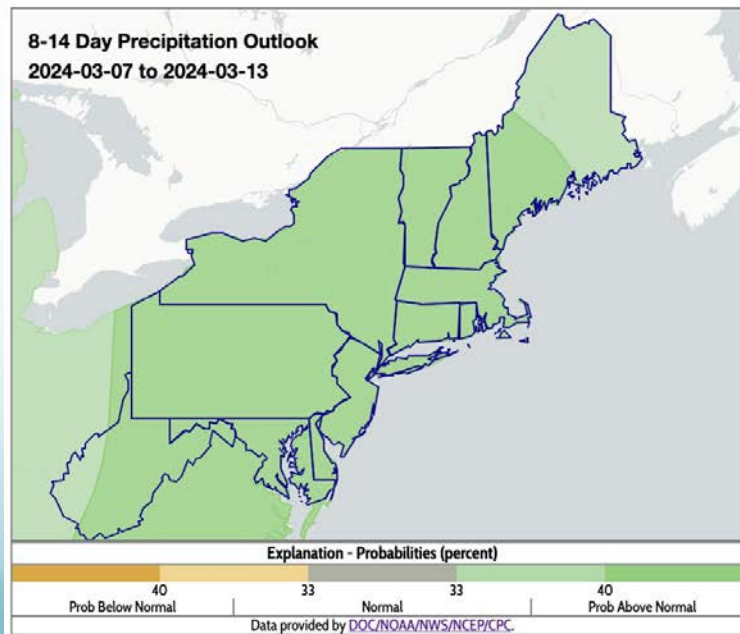
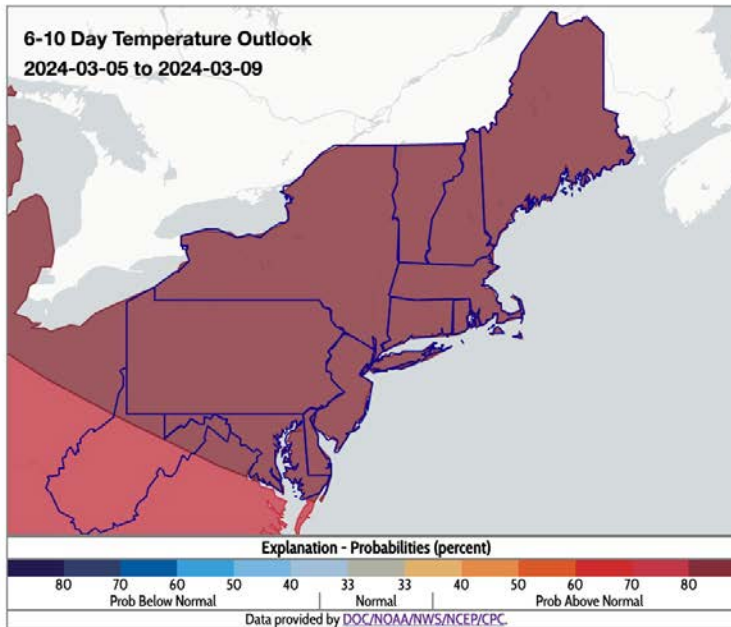
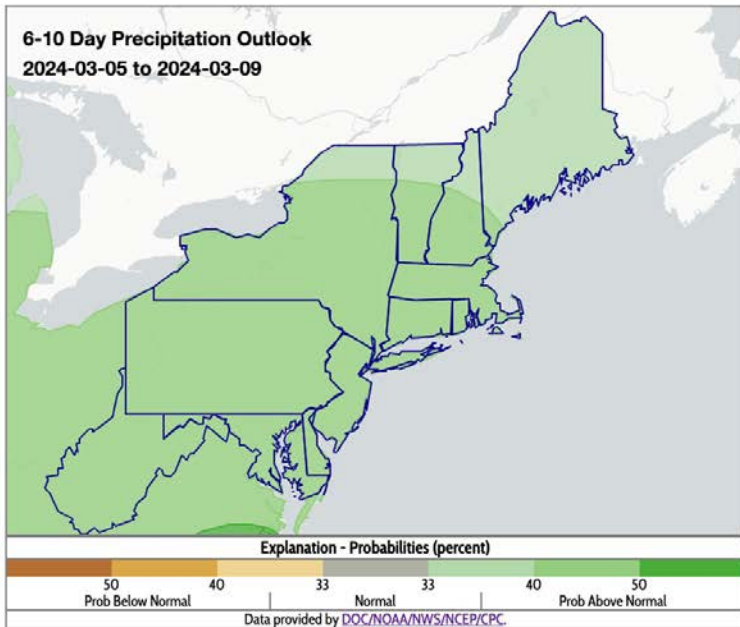




# Precipitation Forecast

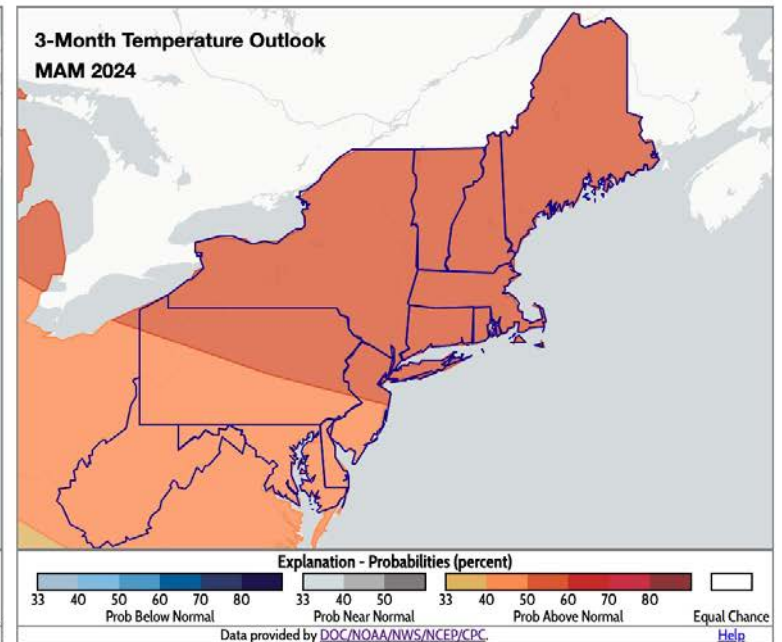
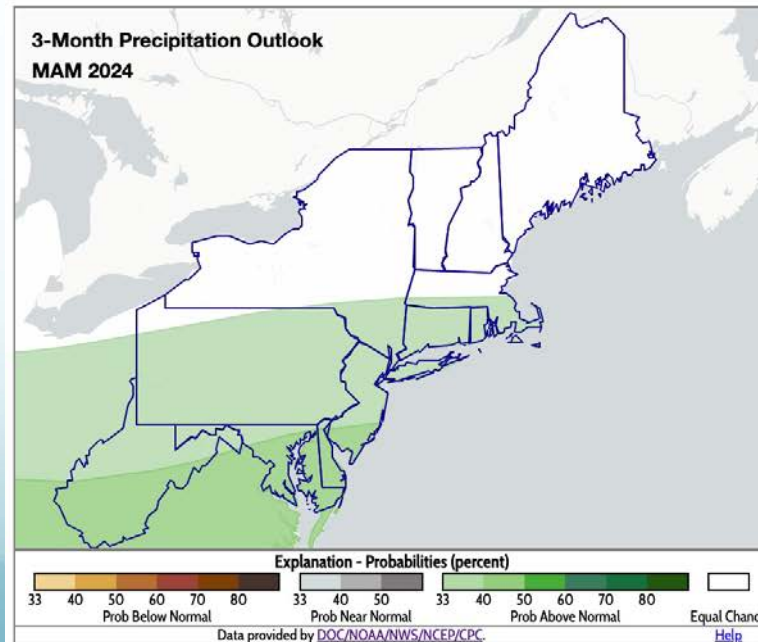
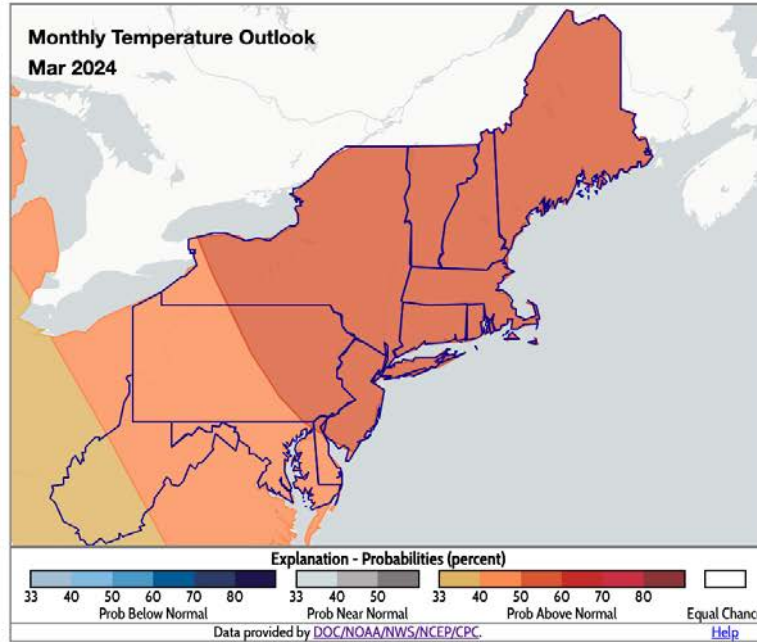
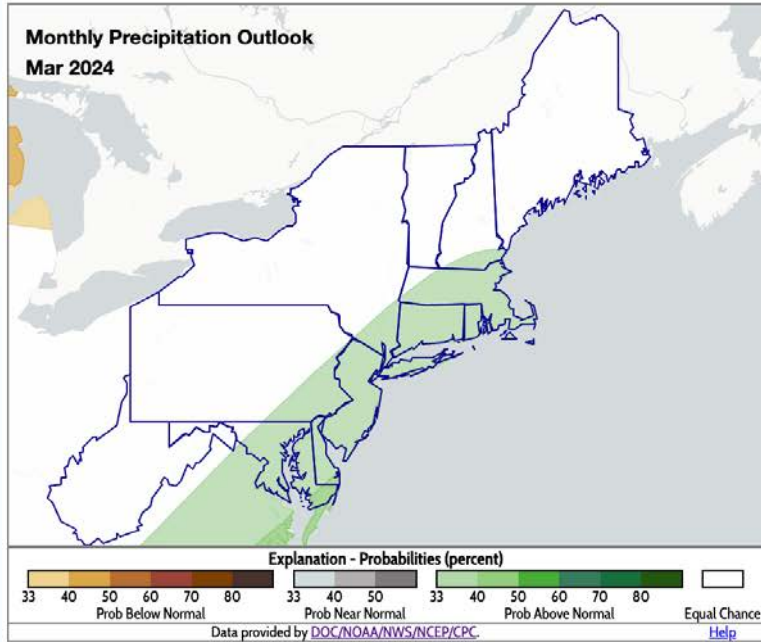


# Short-term Outlooks





# Monthly & 3-Month Outlooks



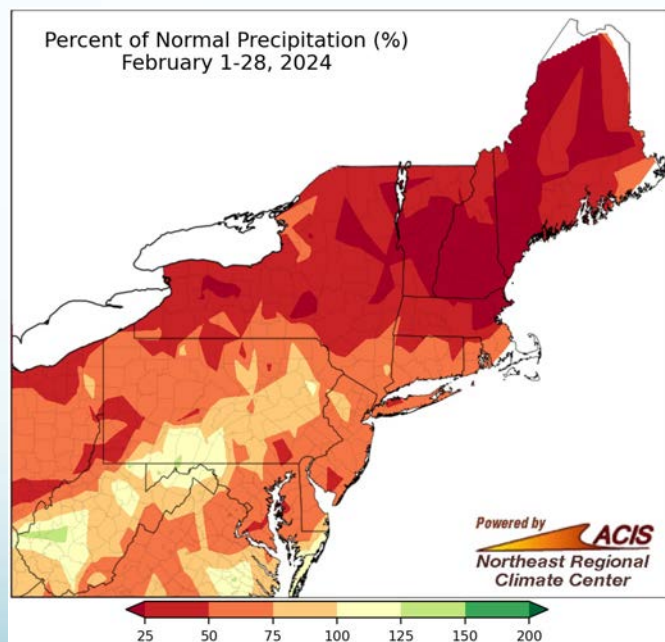
# Summary

## February-to-date conditions:

- Above-normal temperatures for the region
- Below-normal precipitation and snowfall for most areas

## Winter-to-date conditions:

- Warmer than normal for entire region
- Wetter than normal for many areas but below-normal snowfall for most



## Drought:

- Minor improvements in southeastern Massachusetts as groundwater levels continued to recover
- Dry February - status quo for western New York and northwestern Pennsylvania
- Keeping an eye on dry weather and lack of snow as spring approaches

## Outlooks:

- Short-term: above-normal precipitation and above-normal temperatures
- Mar: above-normal precipitation for some coastal areas and above-normal temperatures for all
- Spring: above-normal precipitation for southern areas and above-normal temperatures for all





# Contact Information

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

## Upcoming Webinars

- Thursday, March 28 at 9:30am EDT
  - Spring Flood Outlook
- Tuesday, April 30 at 9:30am EDT
  - Marine Storms
- Thursday, May 30 at 9:30am EDT
  - National Water Model & Flood Inundation Mapping



[www.nrcc.cornell.edu](http://www.nrcc.cornell.edu)