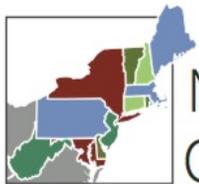


# December Update & Northeast DEWS Discussion

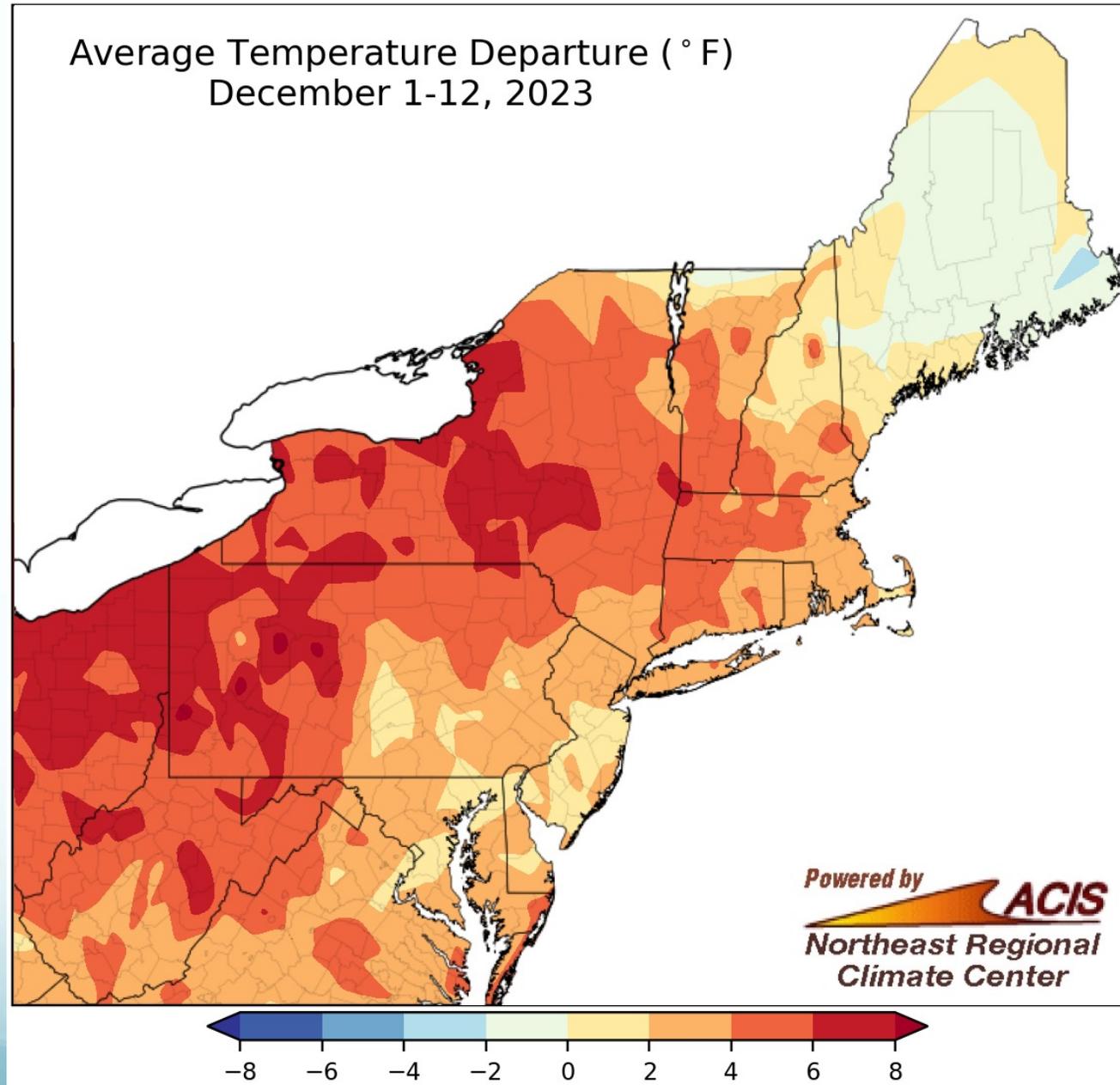
By: Samantha Borisoff, Climatologist  
Northeast Regional Climate Center



Northeast Regional  
Climate Center

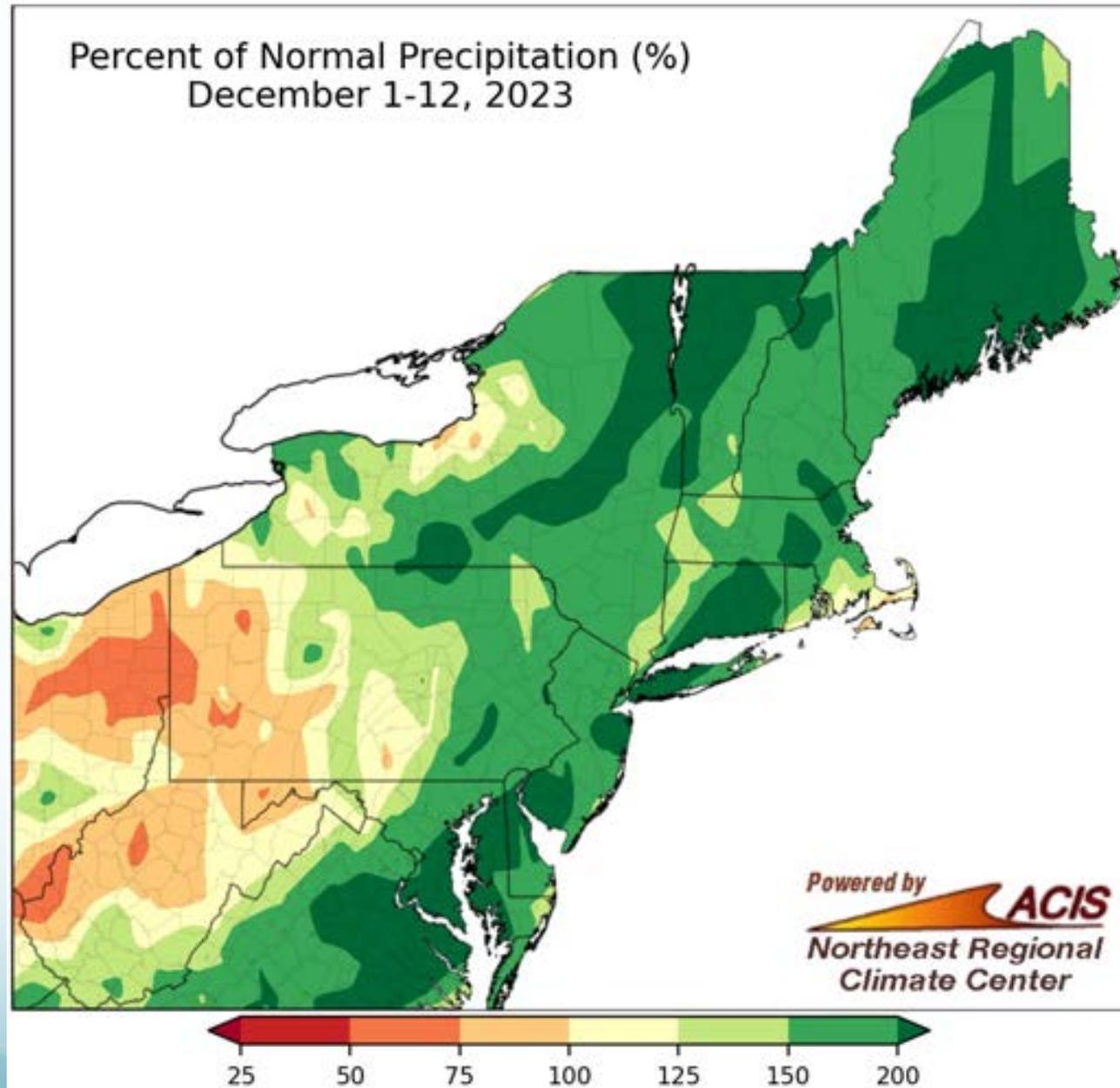


# December Temperatures



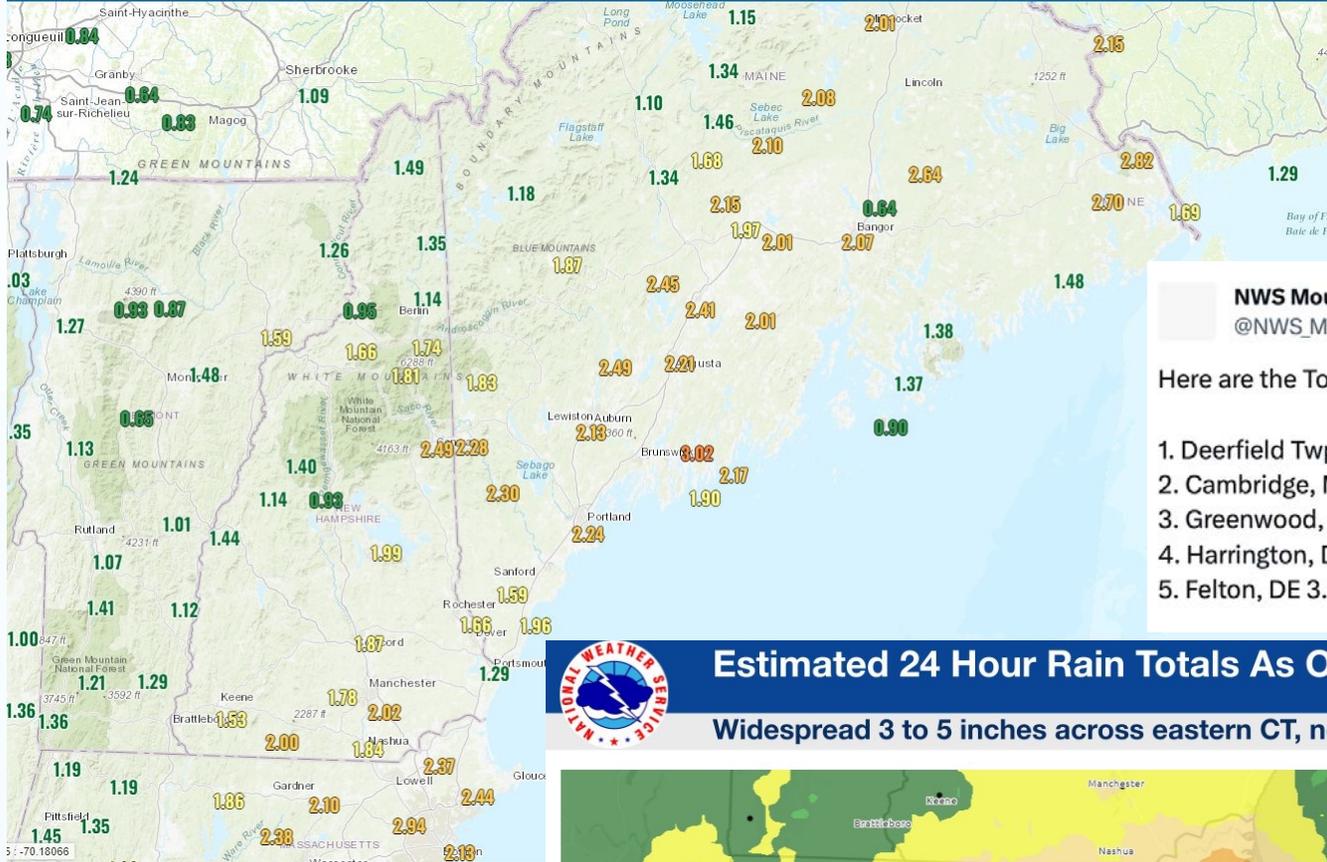
From 2°F below normal to 8°F above normal

# December Precipitation



From 50% of normal to more than 200% of normal





# December Storms

NWS Mount Holly  
@NWS\_MountHolly

Here are the Top 5 Rainfall reports received from our spotters/observers:

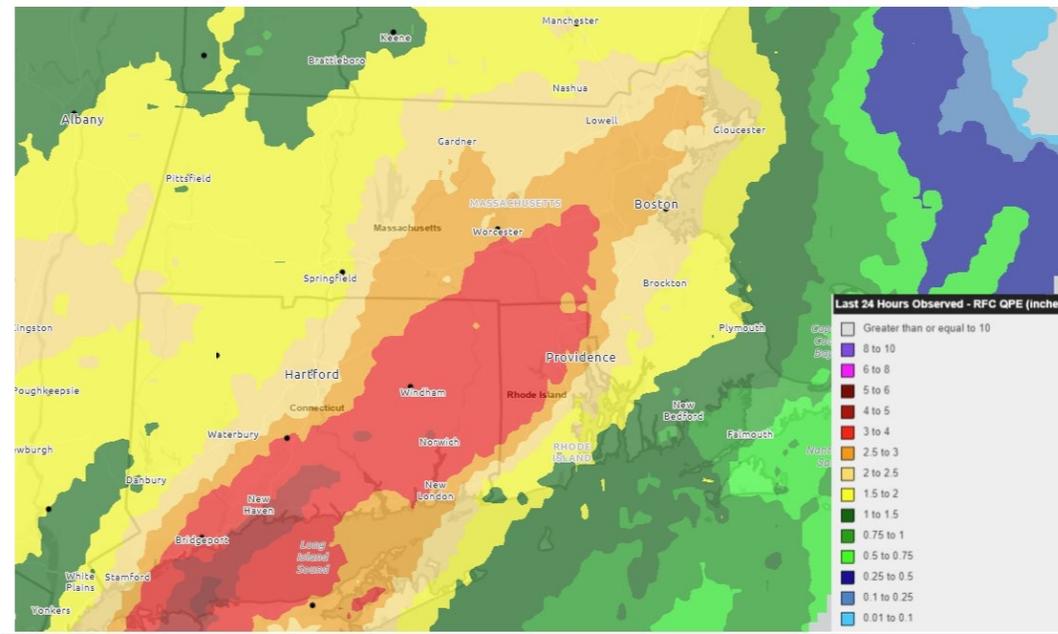
1. Deerfield Twp, NJ 4.45 in.
2. Cambridge, MD 4.36 in.
3. Greenwood, DE 4.04 in.
4. Harrington, DE 3.90 in.
5. Felton, DE 3.80 in.



**Estimated 24 Hour Rain Totals As Of 8 am December 11 December 11, 2023**

11:12 AM

**Widespread 3 to 5 inches across eastern CT, northern RI and parts of central MA**

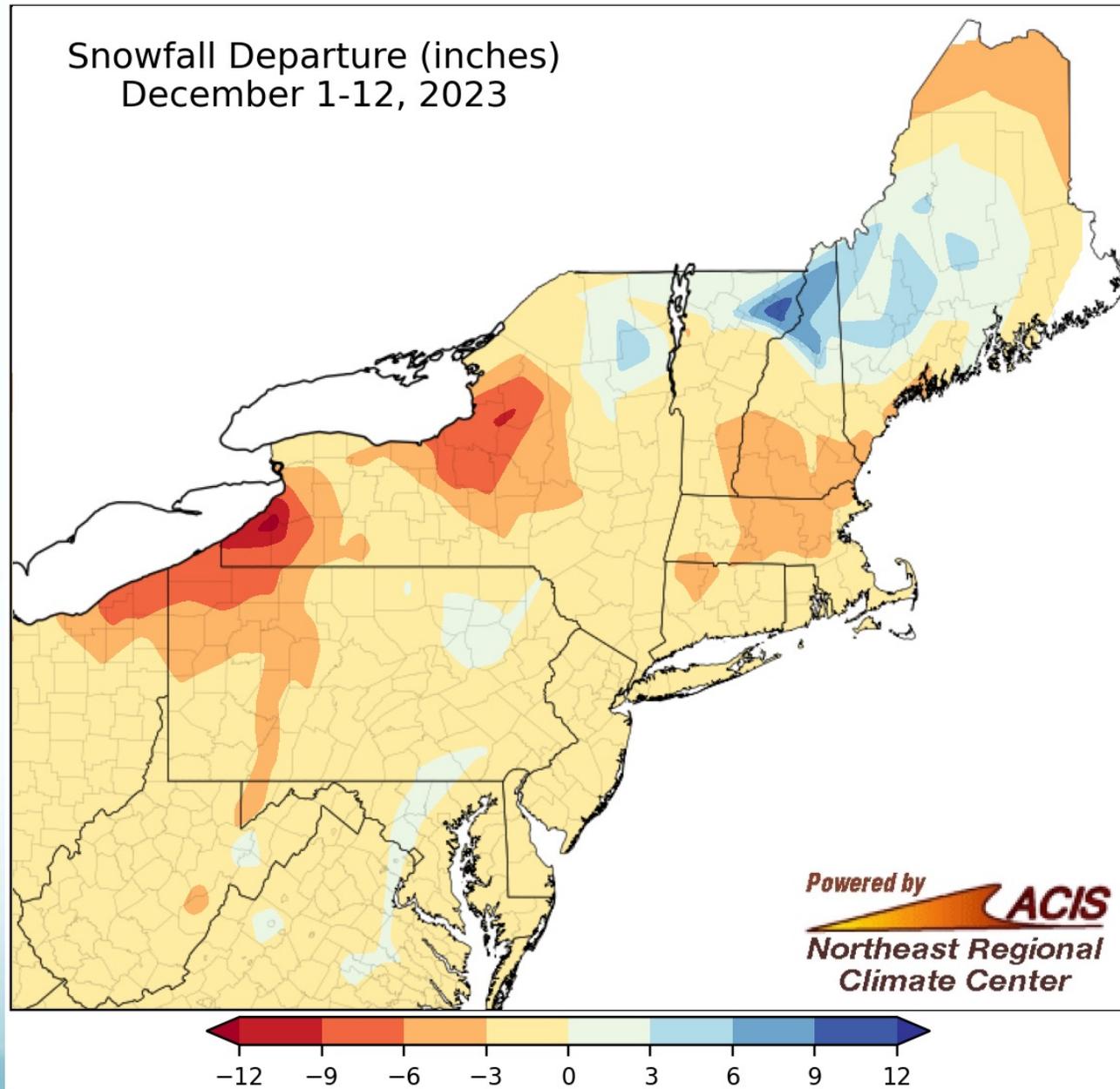


- Moosup CT: 5.15"
- East Killingly CT: 4.25"
- Coventry RI: 4.25"
- Hebron CT: 4.71"
- Storrs CT: 4.30"
- Columbia CT: 4.18"
- Natick MA: 4.01"
- Greenville RI: 3.72"
- Willimantic CT: 3.69"
- Woonsocket RI: 3.60"
- Smithfield RI: 3.38"
- Framingham MA: 3.30"
- Southington CT: 3.26"
- Monson MA: 3.00"
- Hope Valley RI: 2.82"
- Brimfield MA: 2.75"
- West Newbury MA: 2.66"
- Providence RI: 2.62"
- Beverly MA: 2.54"
- Norton MA: 2.24"

Courtesy of  
NWS GYX



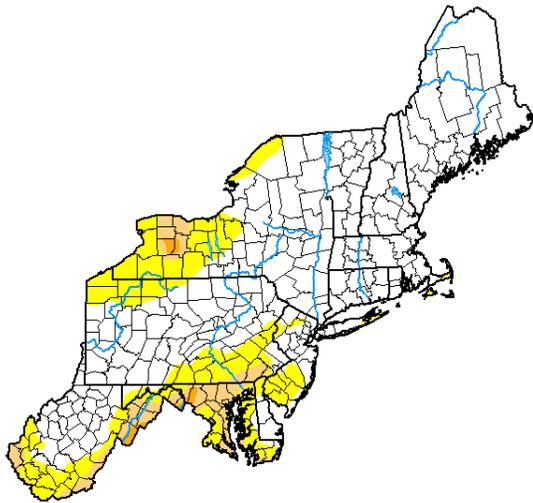
# December Snowfall



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

# Drought Monitor

## U.S. Drought Monitor Northeast



**November 28, 2023**  
(Released Thursday, Nov. 30, 2023)  
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
<b>Current</b>	74.36	19.18	5.76	0.71	0.00	0.00
<b>Last Week</b> 11-21-2023	72.02	20.39	6.87	0.71	0.00	0.00
<b>3 Months Ago</b> 08-29-2023	91.45	6.27	2.26	0.02	0.00	0.00
<b>Start of Calendar Year</b> 01-03-2023	90.64	9.16	0.21	0.00	0.00	0.00
<b>Start of Water Year</b> 09-26-2022	88.48	10.08	1.36	0.08	0.00	0.00
<b>One Year Ago</b> 11-29-2022	89.43	8.52	1.93	0.13	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>

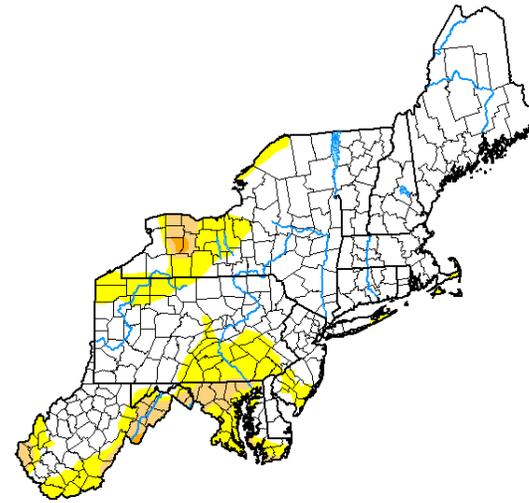
**Author:**

David Simeral  
Western Regional Climate Center



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

## U.S. Drought Monitor Northeast



**December 12, 2023**  
(Released Thursday, Dec. 14, 2023)  
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
<b>Current</b>	77.44	17.58	4.65	0.34	0.00	0.00
<b>Last Week</b> 12-05-2023	74.67	18.88	5.74	0.71	0.00	0.00
<b>3 Months Ago</b> 09-12-2023	92.77	4.84	2.30	0.09	0.00	0.00
<b>Start of Calendar Year</b> 01-03-2023	90.64	9.16	0.21	0.00	0.00	0.00
<b>Start of Water Year</b> 09-26-2022	88.48	10.08	1.36	0.08	0.00	0.00
<b>One Year Ago</b> 12-13-2022	88.20	9.94	1.72	0.13	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:**

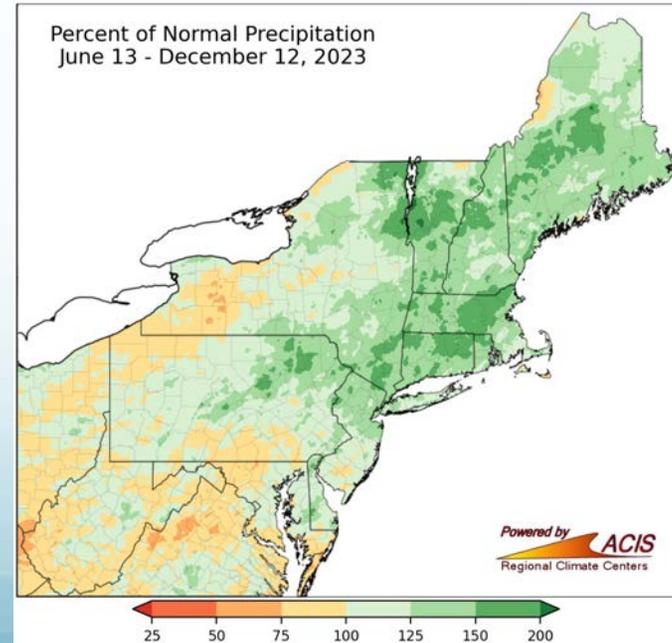
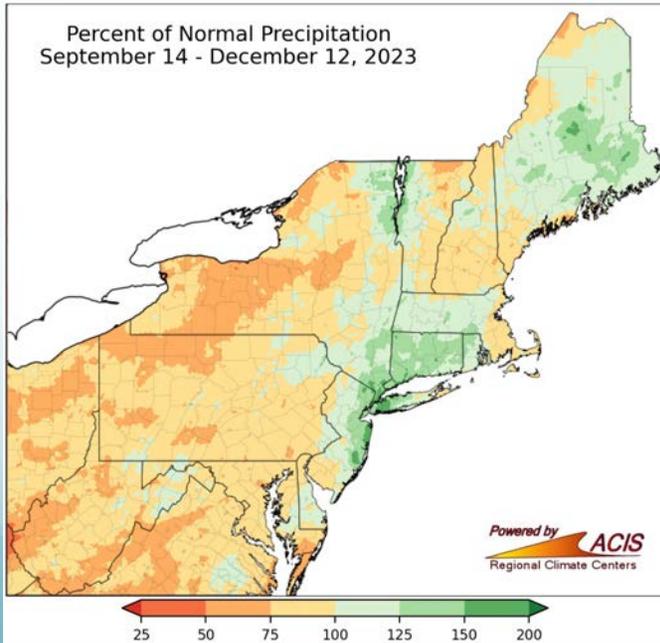
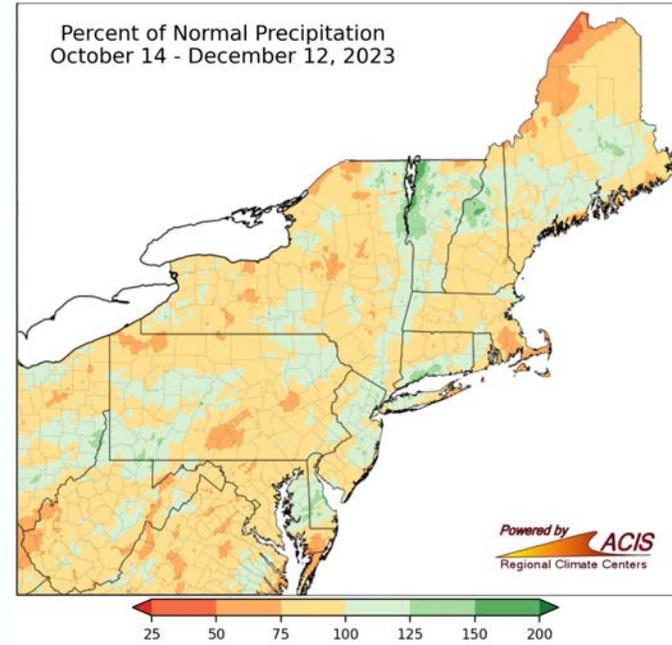
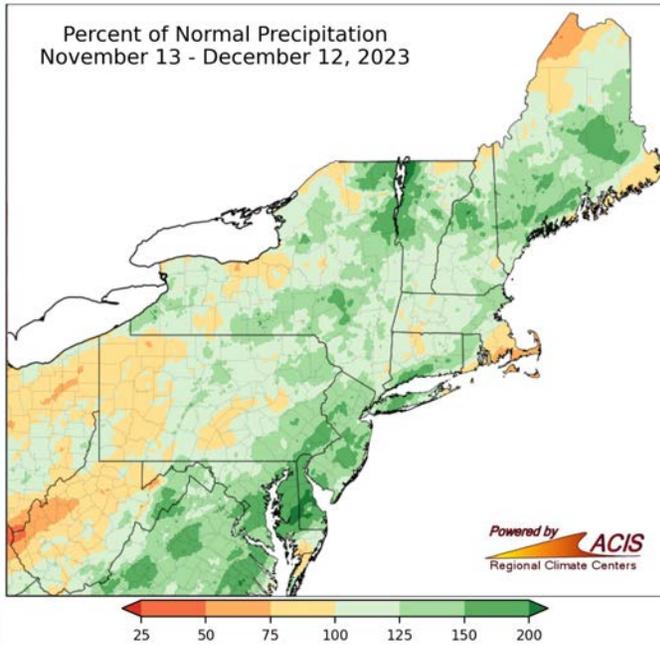
Curtis Riganti  
National Drought Mitigation Center



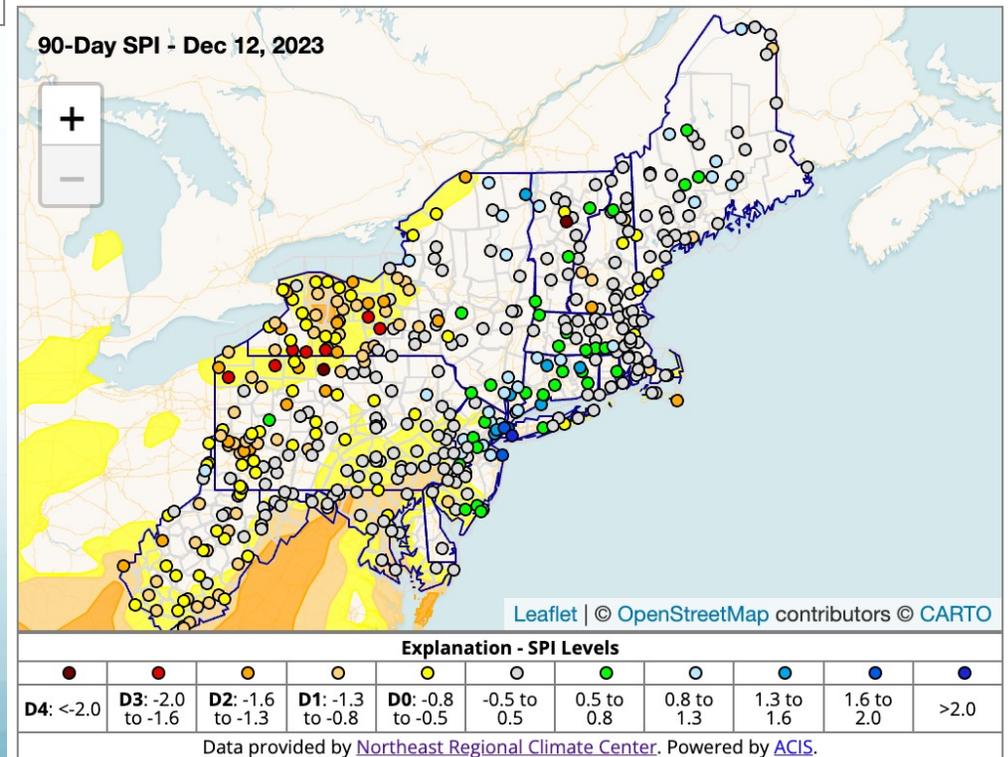
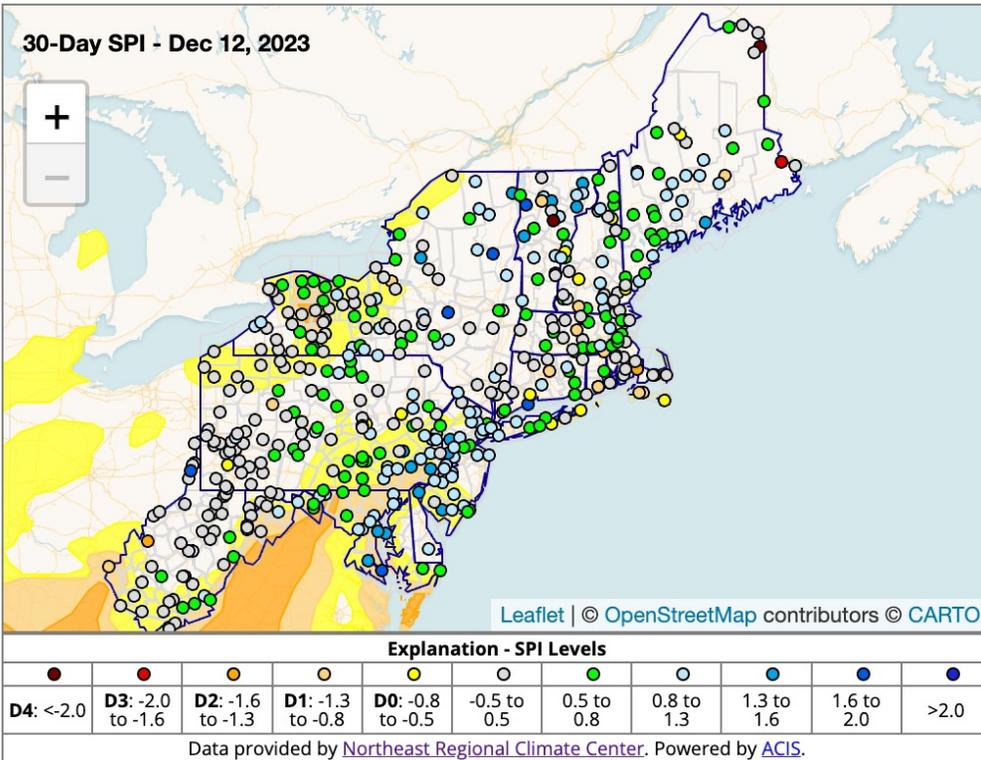
[droughtmonitor.unl.edu](https://droughtmonitor.unl.edu)



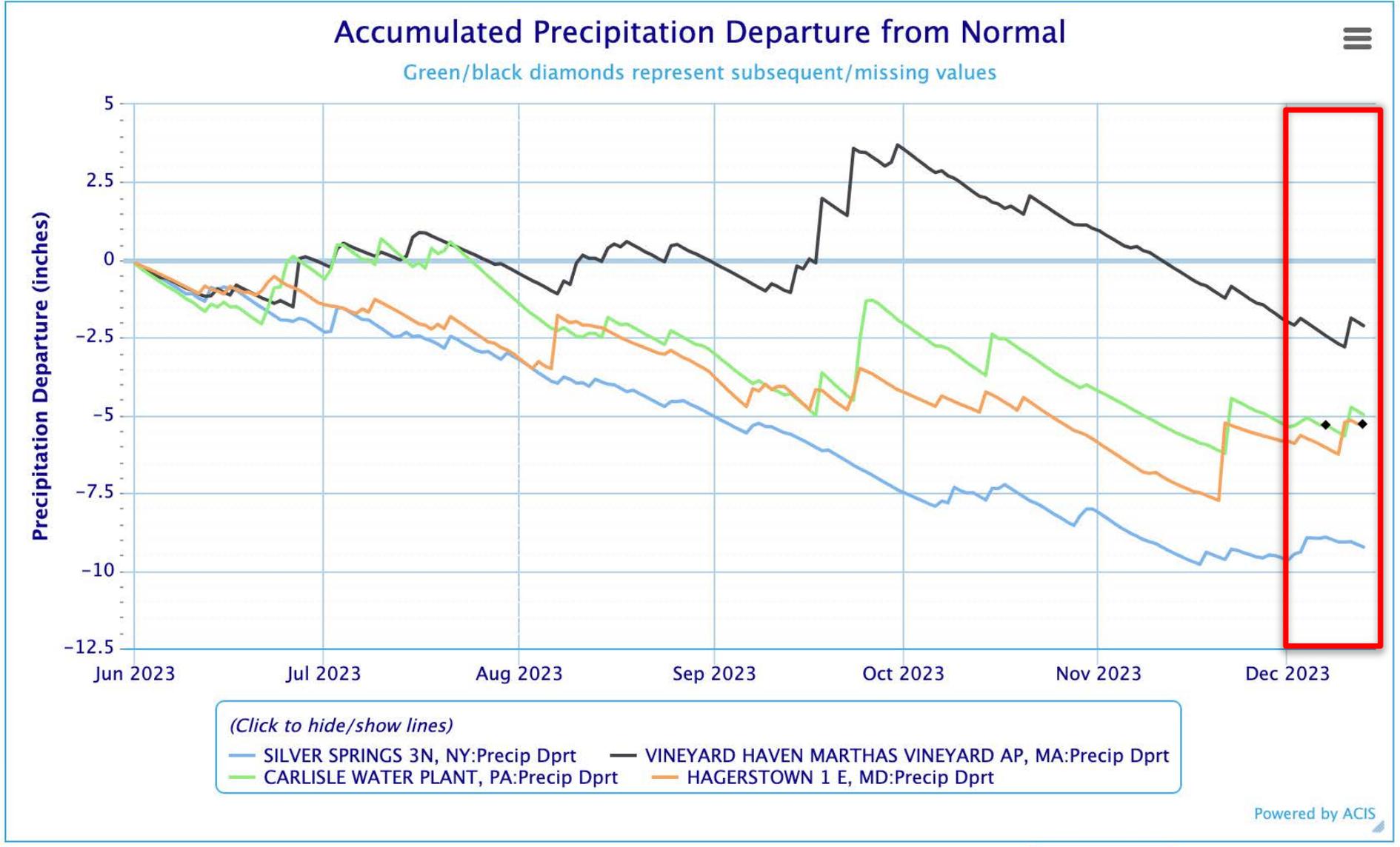
# Precipitation



# Standardized Precipitation Index

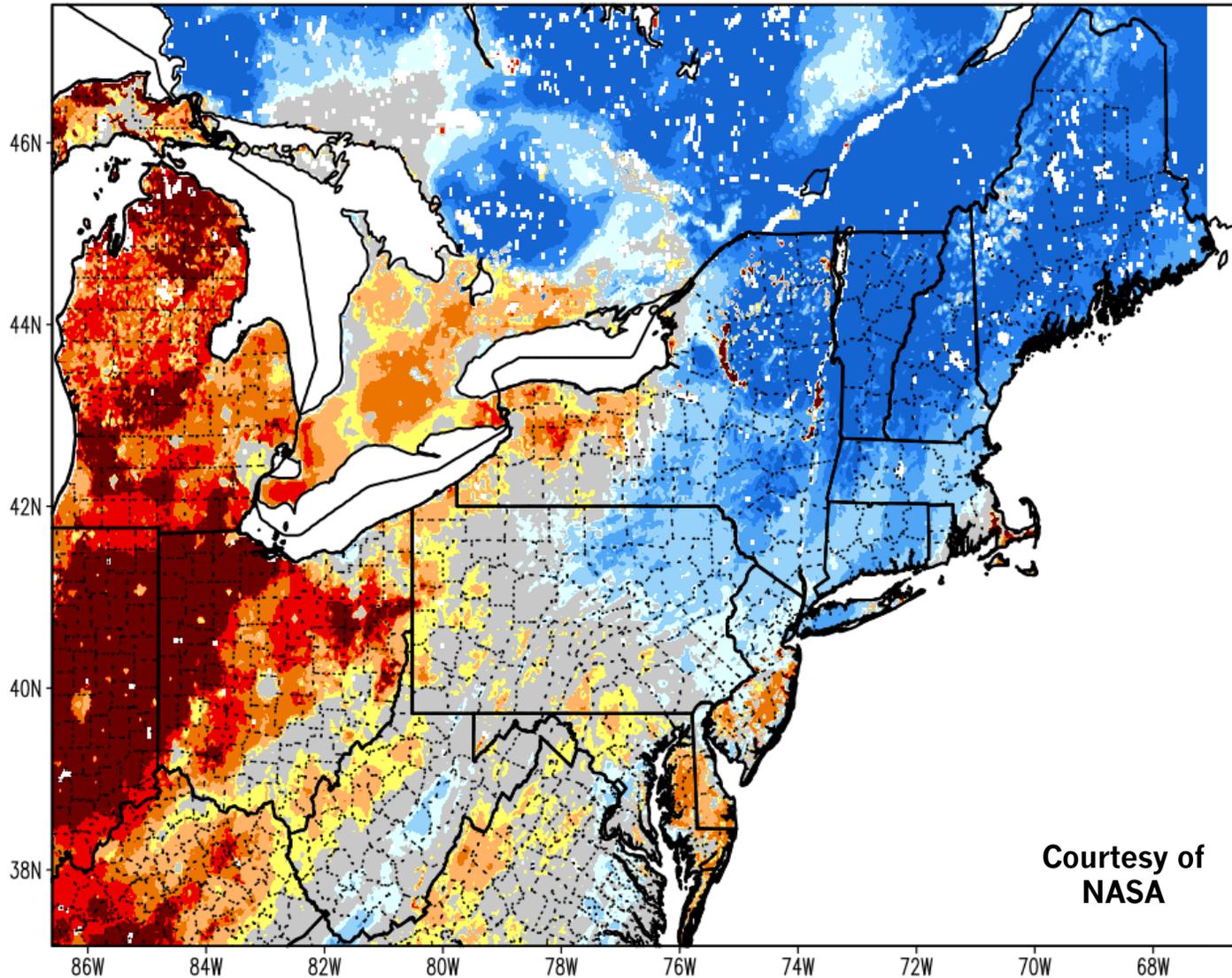


# Precipitation

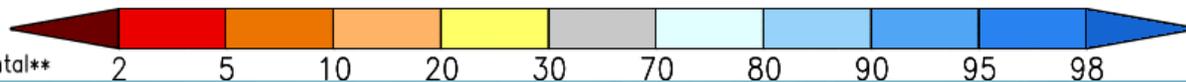


# Soil Moisture

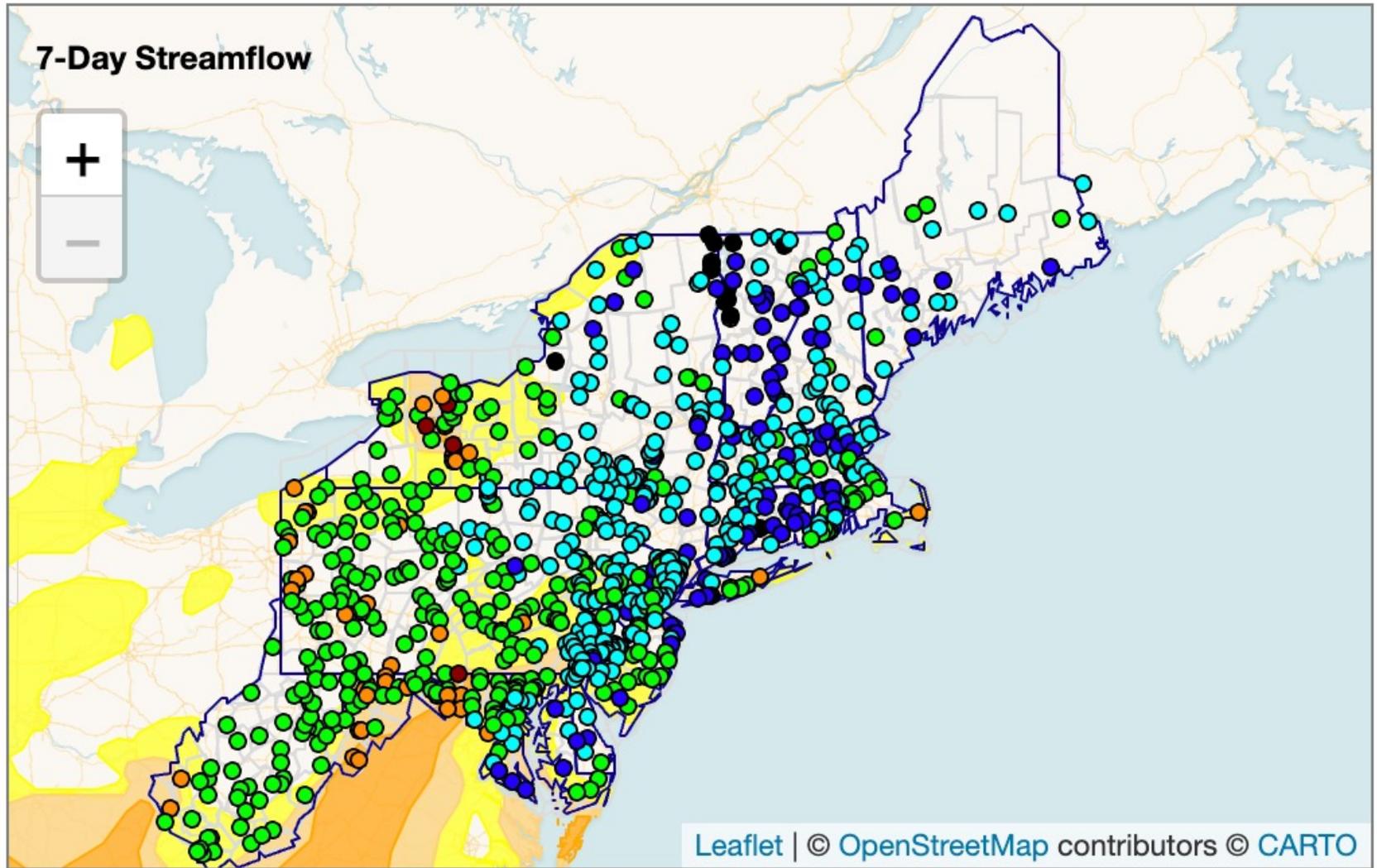
SPoRT-LIS 0-100 cm Soil Moisture percentile valid 14 Dec 2023



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



# Streamflow



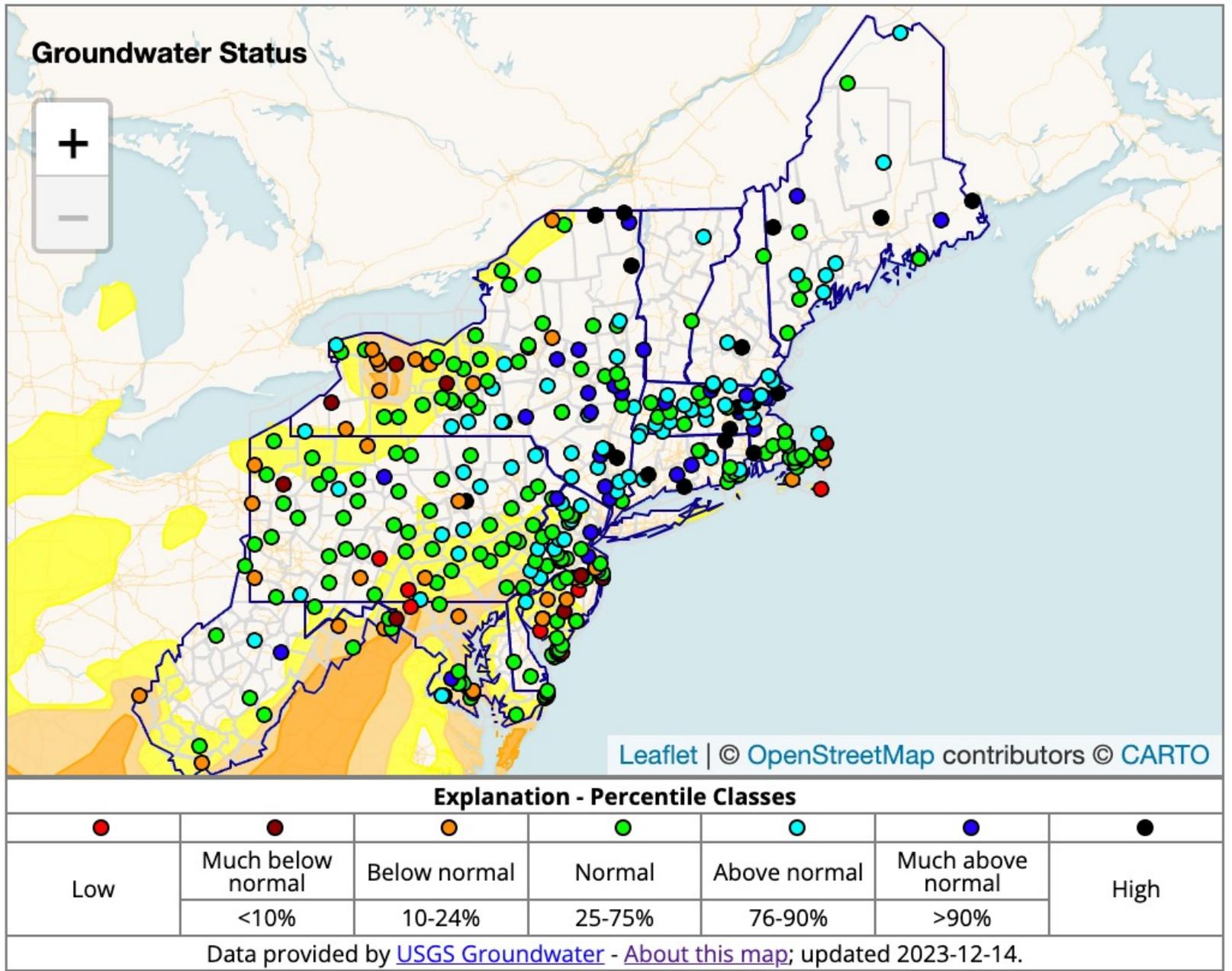
## Explanation - Percentile Classes

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

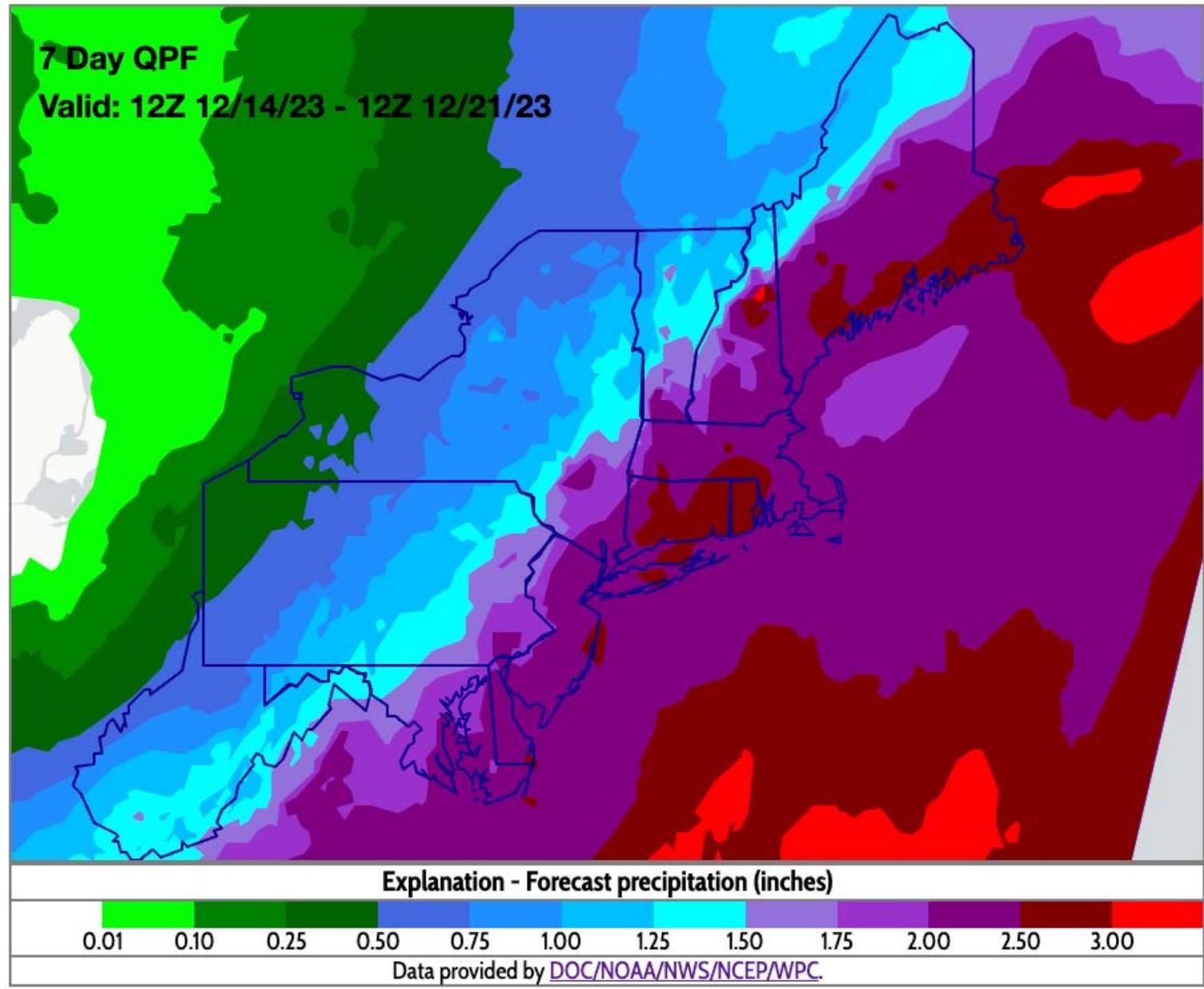
Data provided by [USGS WaterWatch - Streamflow](#); updated 2023-12-13.



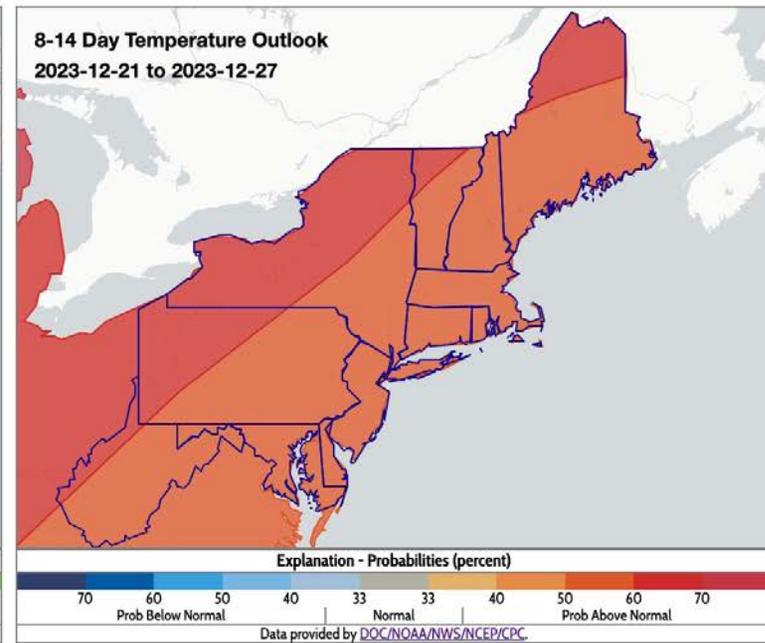
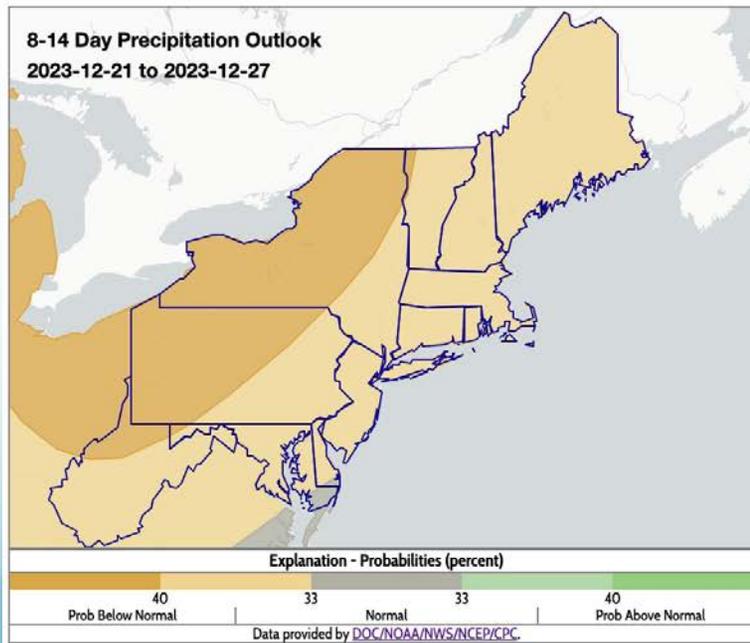
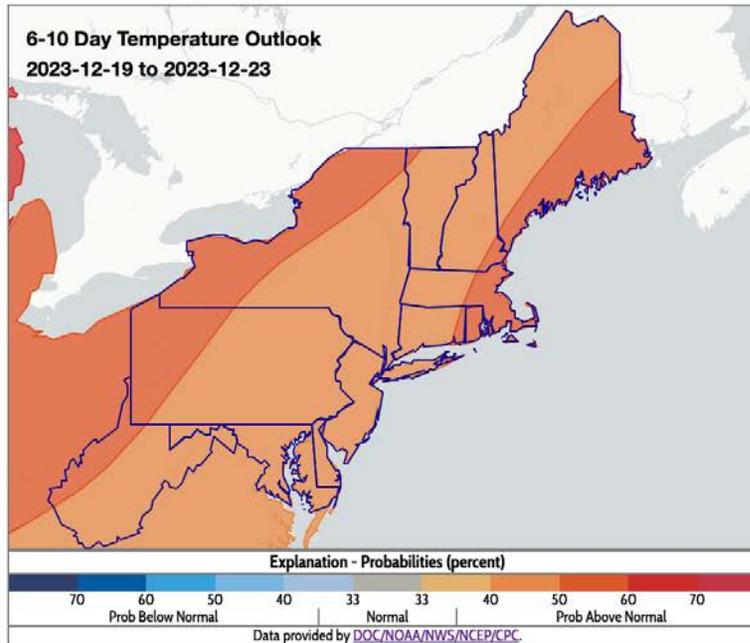
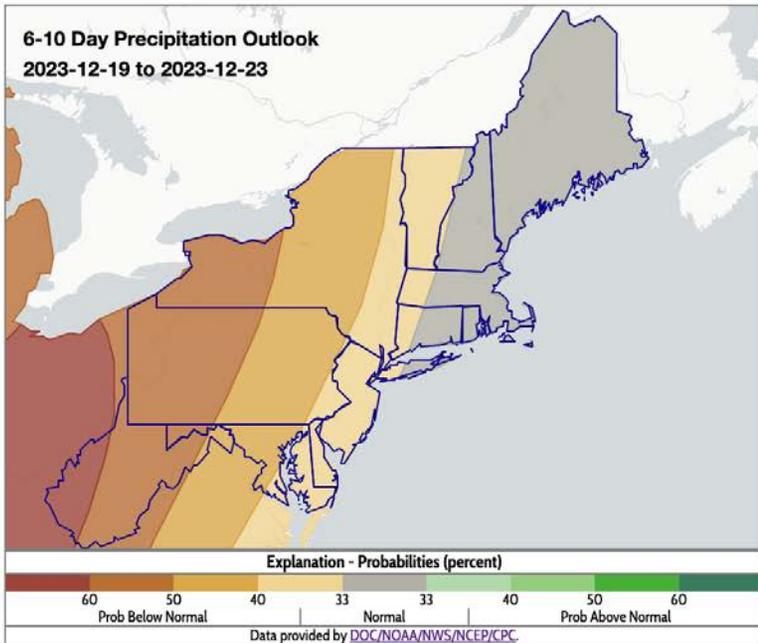
# Groundwater



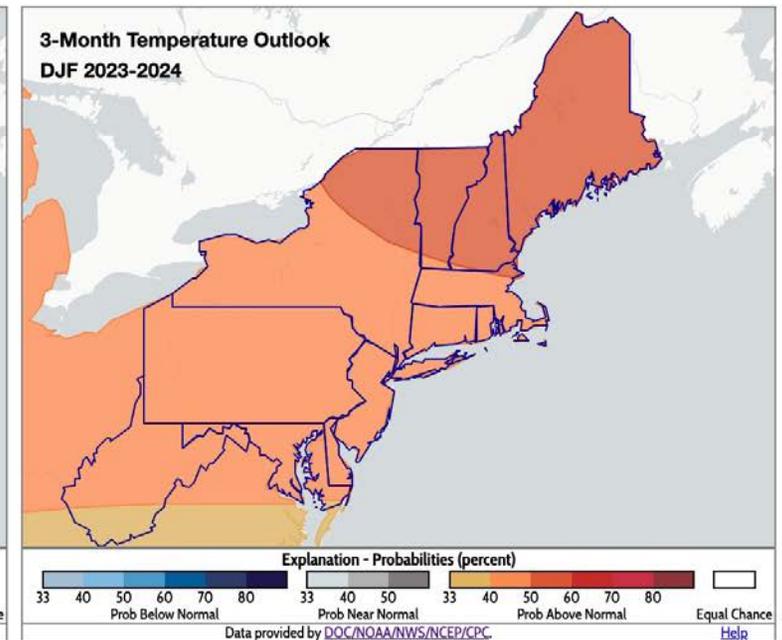
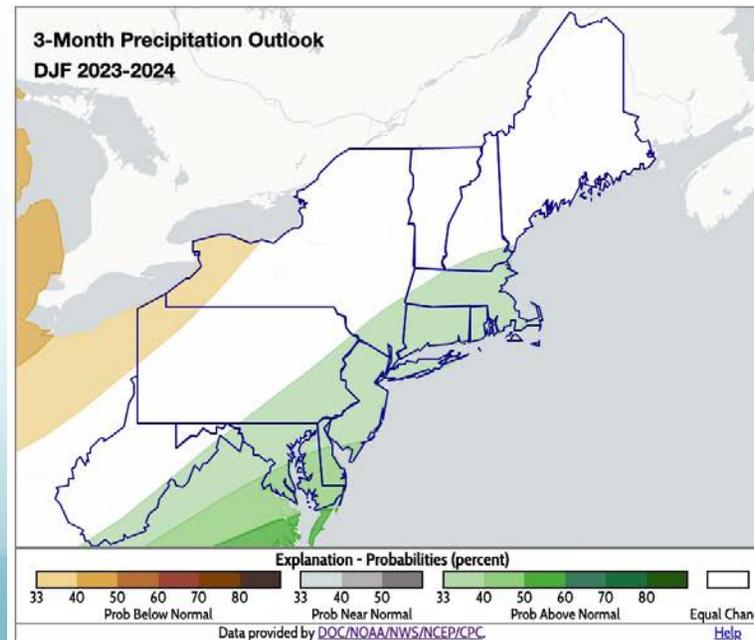
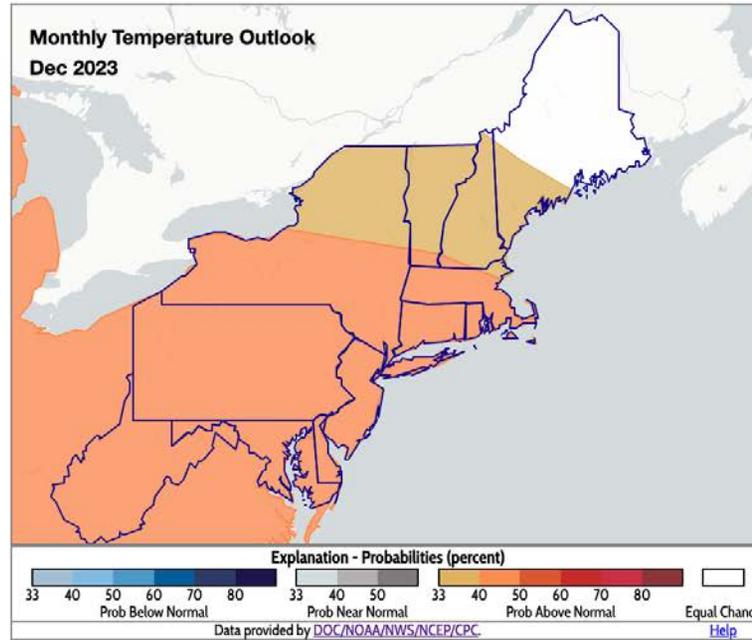
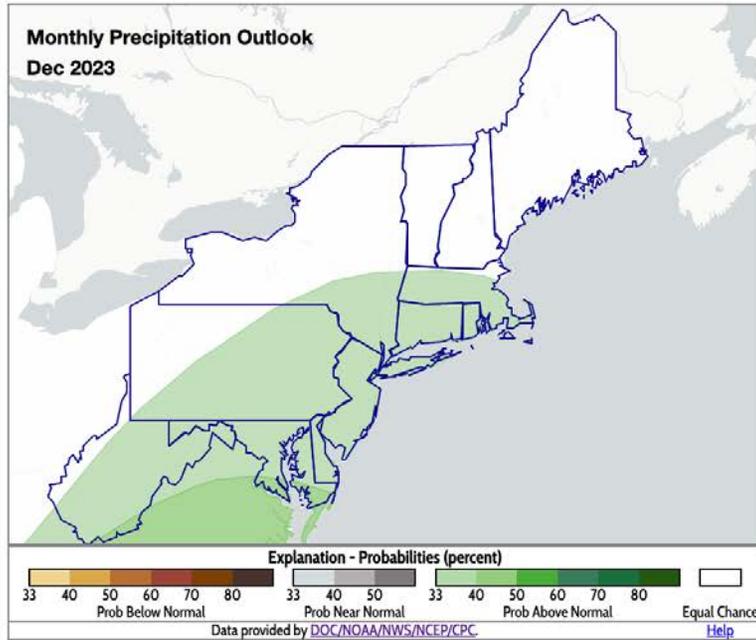
# Precipitation Forecast



# Short-term Outlooks



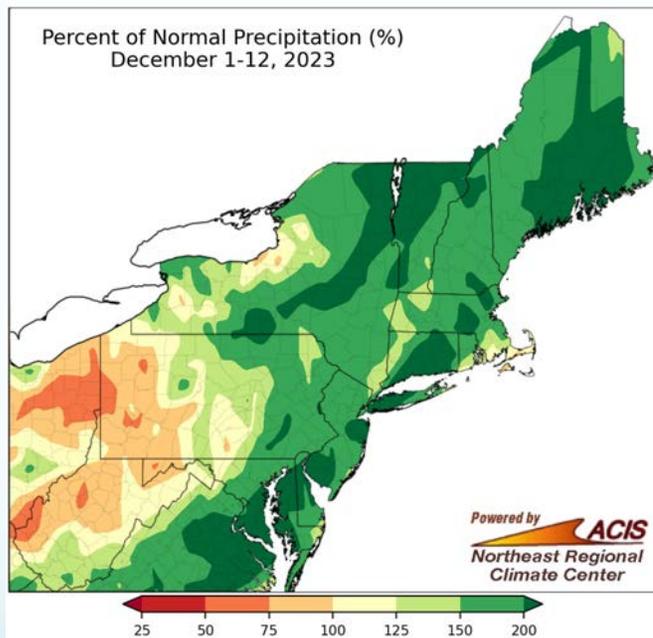
# Monthly & 3-Month Outlooks



# Summary

## December-to-date conditions:

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



## Drought:

- Above-normal precipitation chipped away at drought and dryness but no widespread improvements since late November

## Outlooks:

- Short-term: below- or near-normal precipitation and above-normal temperatures for the region
- Dec: tilt toward above-normal precipitation and above-normal temperatures for some areas
- Dec-Feb: tilt toward above-normal precipitation for coastal areas but below-normal for some interior locations; above-normal temperatures favored for all



# Contact Information

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

## Upcoming Webinars

- Tuesday, January 30 at 9:30am EST
  - CMIP6 Projections of Extreme Rainfall
- Thursday, February 29 at 9:30am EST
  - Coastal Inundation and High Tide Flooding

## El Niño Resource

- <https://elnino.nrcc.cornell.edu>



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