

April Review & Northeast DEWS Discussion

By: Samantha Borisoff, Climatologist
Northeast Regional Climate Center

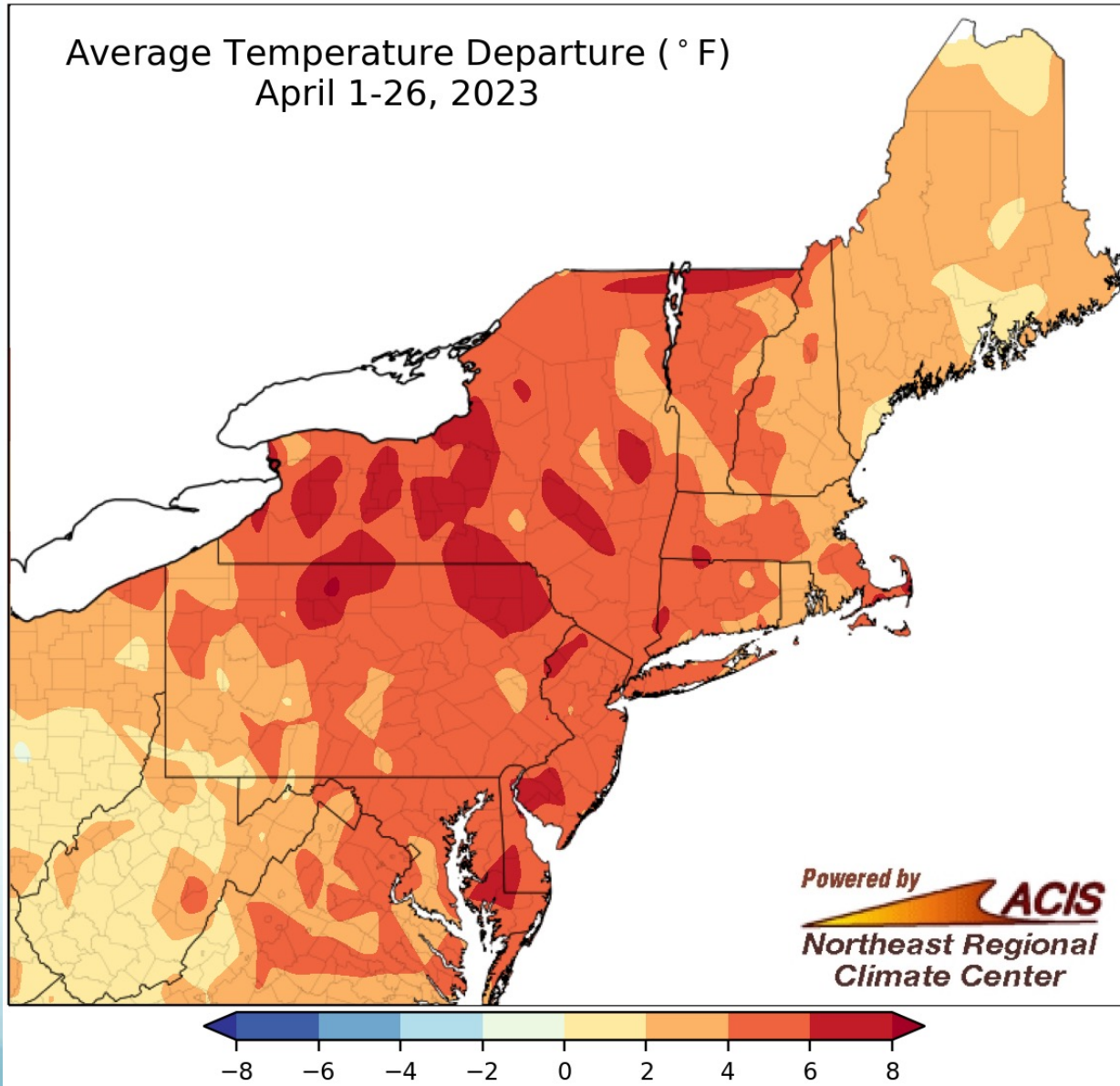


Northeast Regional
Climate Center



April Temperatures

Average Temperature Departure (° F)
April 1-26, 2023



From near normal to 8°F above normal

April 13-16 Temperatures

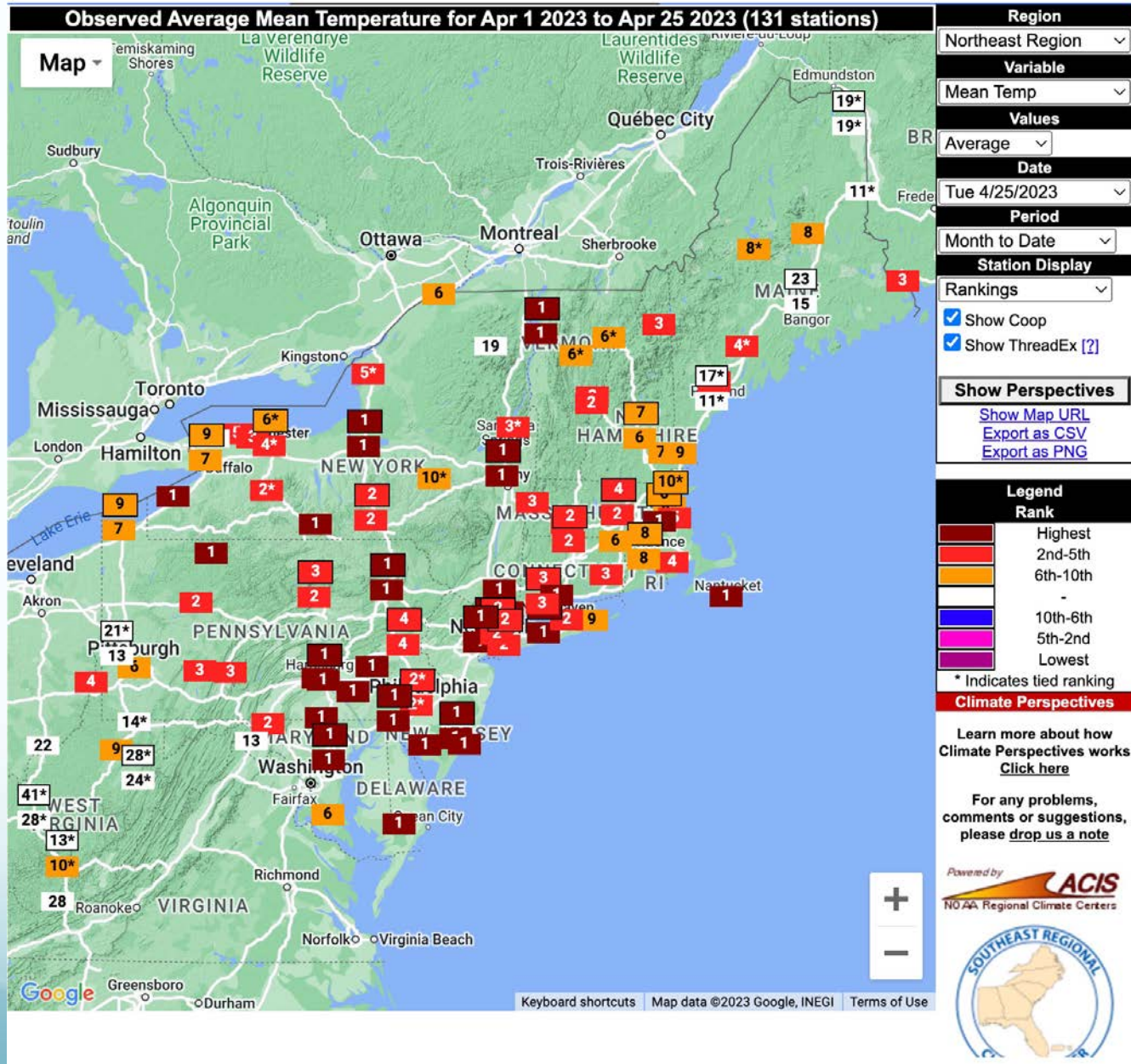
Record or near-record high temperatures

Station	Date	Max Temp	Apr Rank
Hartford, CT	13	92	9
Newark, NJ	13	92	9
LaGuardia Airport, NY	13	89	6
Burlington, VT	13	88	7
Binghamton, NY	13	86	3
Hartford, CT	14	96	1
Newark, NJ	14	93	4
Central Park, NY	14	91	8
Scranton, PA	14	91	3
Worcester, MA	14	90	3
Concord, NH	14	90	10
LaGuardia Airport, NY	14	89	6
Bridgeport, CT	14	87	3
Binghamton, NY	14	85	5
Syracuse, NY	15	88	7
Buffalo, NY	16	86	8

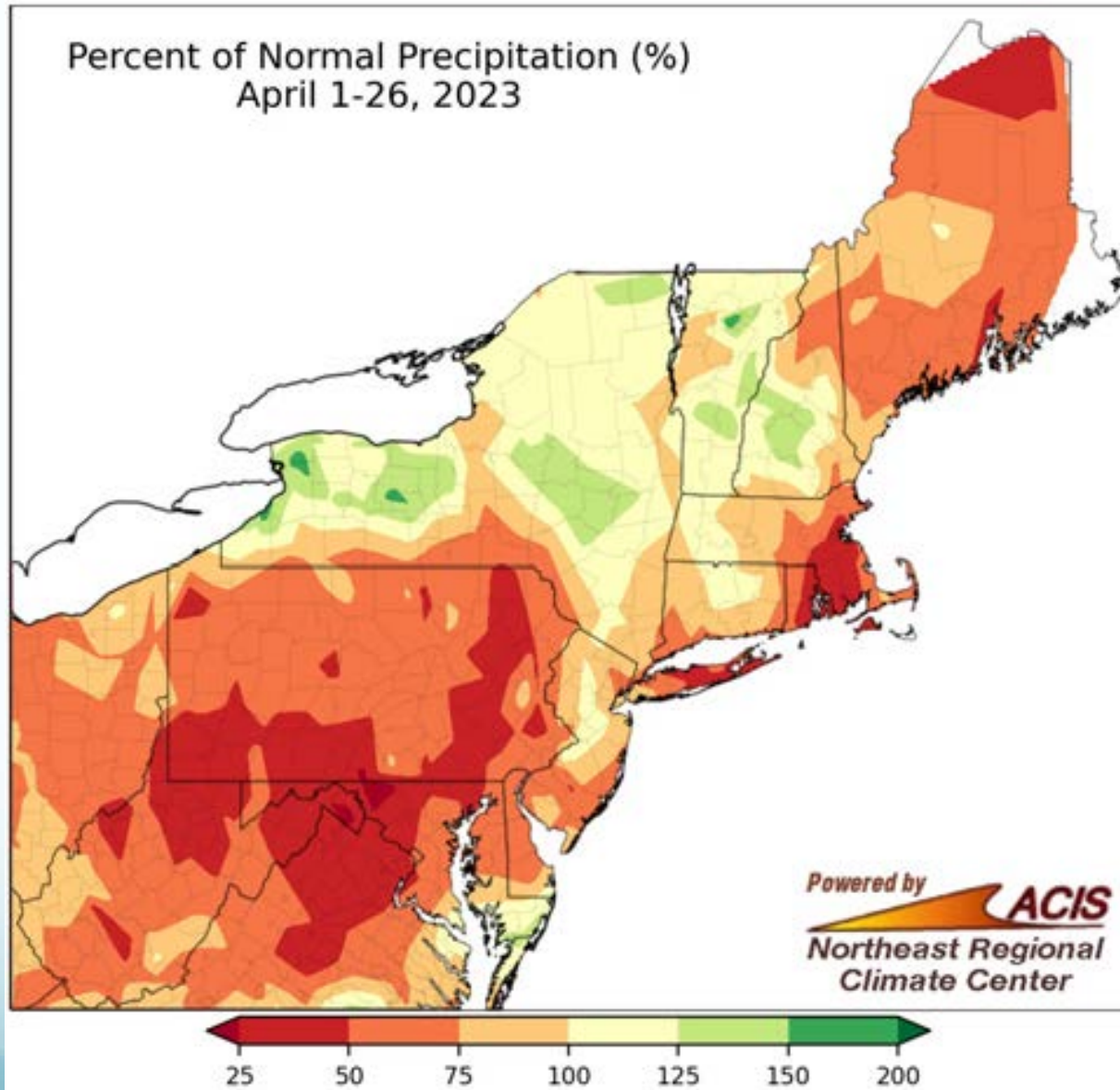
Earliest 90-degree day on record for Scranton, Worcester, and Williamsport



April Temperatures



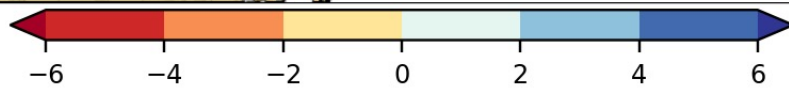
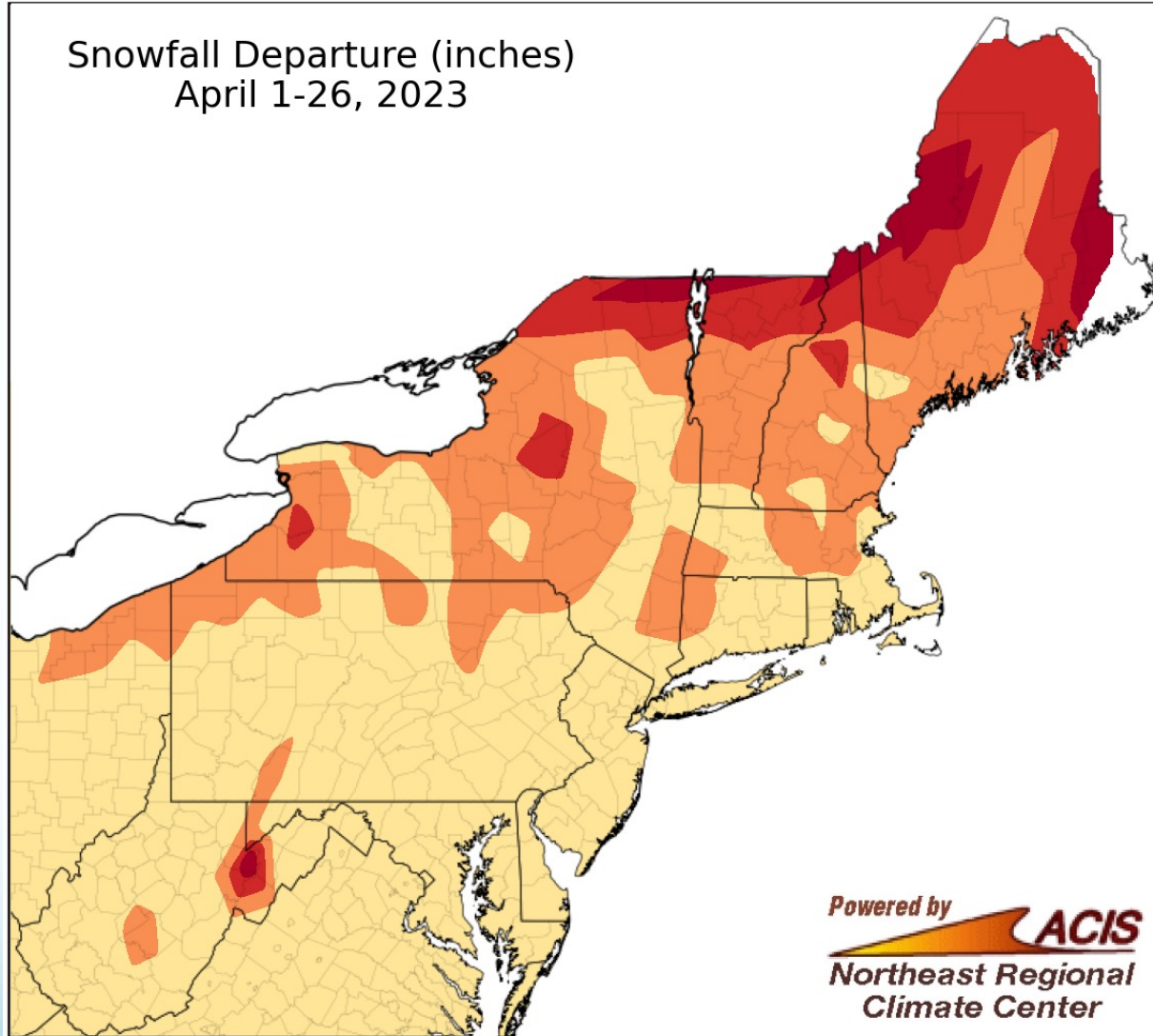
April Precipitation



From 25% of normal to 200% of normal

April Snowfall

Snowfall Departure (inches)
April 1-26, 2023

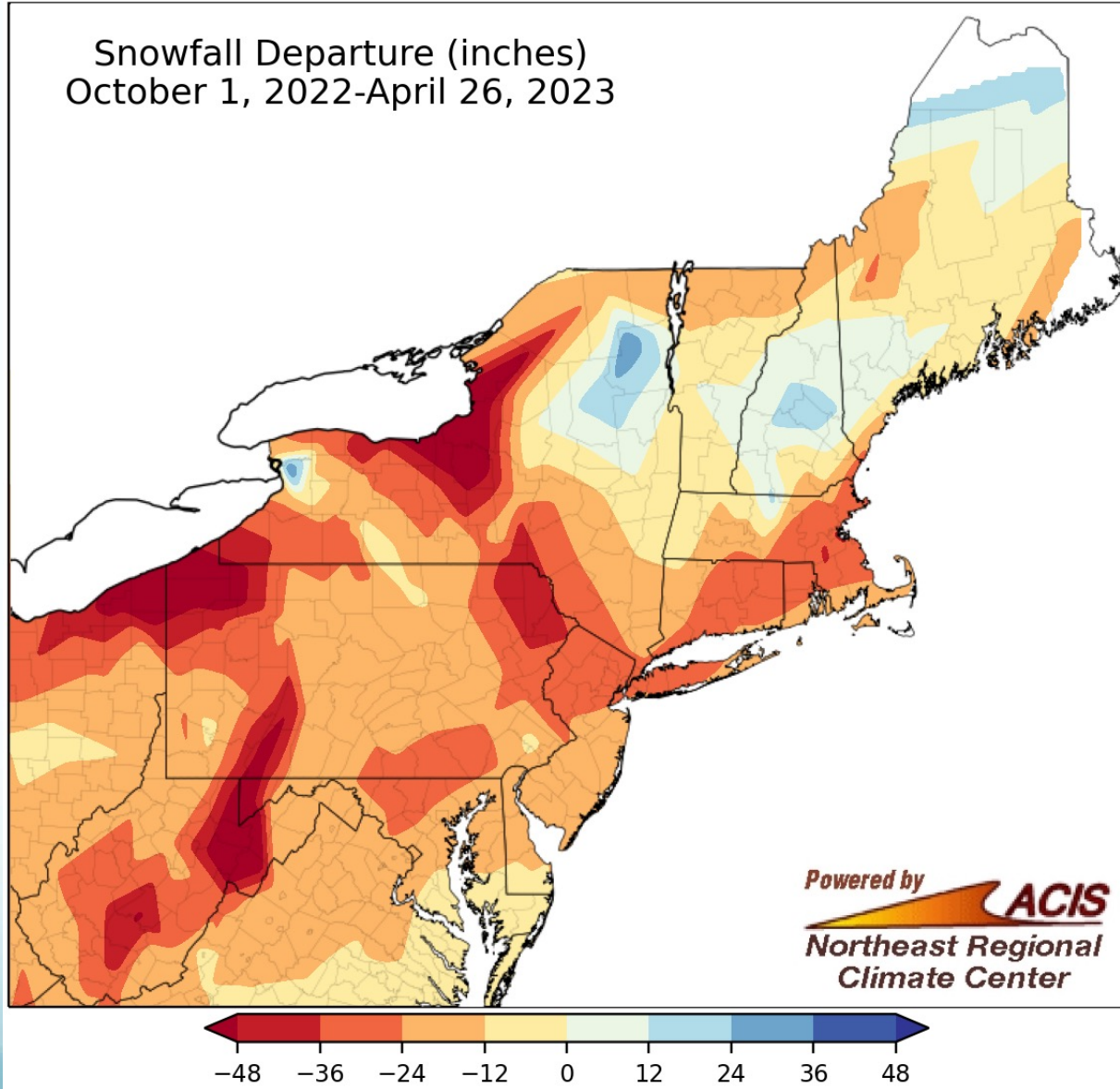


From more than 6" below normal to near normal



Season Snowfall

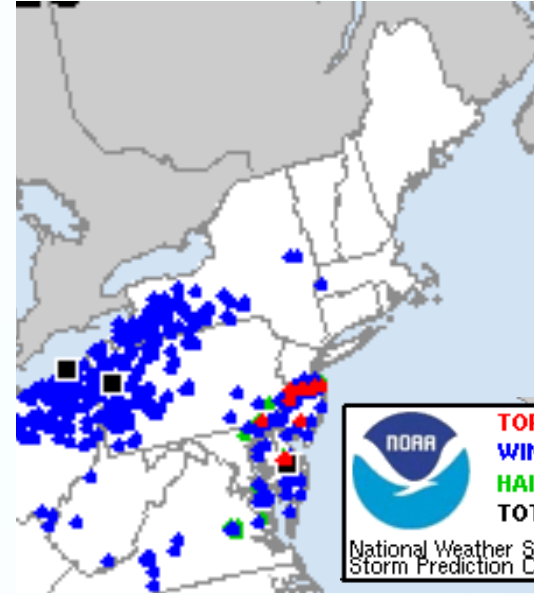
Snowfall Departure (inches)
October 1, 2022-April 26, 2023



From more than 48" below normal to 24" above normal



April Severe Weather



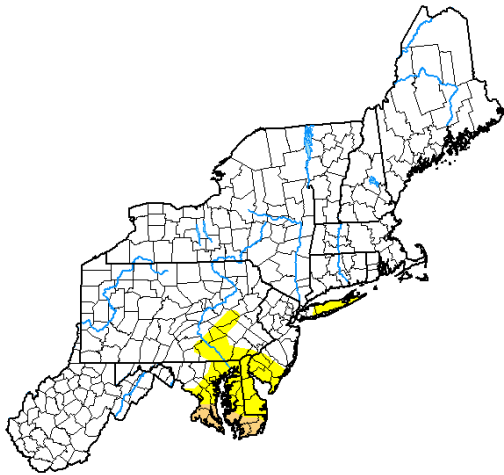
	TORNADO REPORTS.. (13)
	WIND REPORTS/HI..... (398/4)
	HAIL REPORTS/LG..... (25/0)
	TOTAL REPORTS..... (436)
National Weather Service Storm Prediction Center	
Norman, Oklahoma	

Courtesy of
NWS PHI



Drought Monitor

U.S. Drought Monitor Northeast



March 28, 2023

(Released Thursday, Mar. 30, 2023)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	92.34	6.36	1.30	0.00	0.00	0.00
Last Week 03-21-2023	95.91	4.09	0.00	0.00	0.00	0.00
3 Months Ago 12-27-2022	90.59	9.21	0.21	0.00	0.00	0.00
Start of Calendar Year 01-01-2023	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 03-28-2022	71.90	24.95	2.46	0.67	0.00	0.00

Intensity



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>

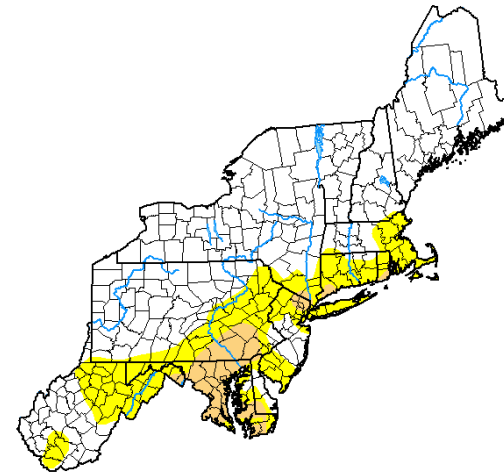
Author

Curtis Riganti
National Drought Mitigation Center



droughtmonitor.unl.edu

U.S. Drought Monitor Northeast



April 25, 2023

(Released Thursday, Apr. 27, 2023)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	72.19	21.66	6.15	0.00	0.00	0.00
Last Week 04-18-2023	74.97	18.54	6.49	0.00	0.00	0.00
3 Months Ago 01-24-2023	95.28	4.52	0.21	0.00	0.00	0.00
Start of Calendar Year 01-01-2023	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 04-26-2022	81.37	17.40	1.24	0.00	0.00	0.00

Intensity



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Author

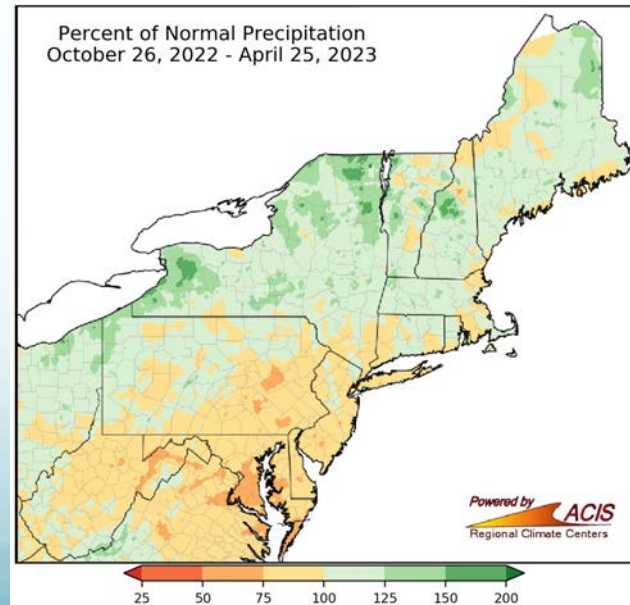
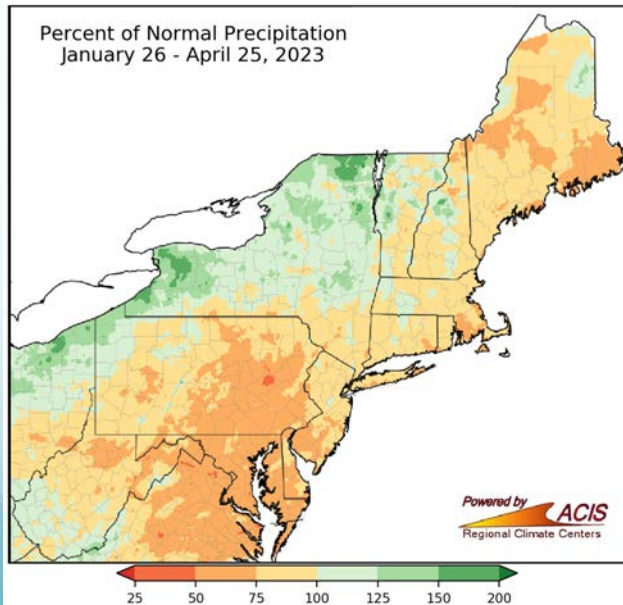
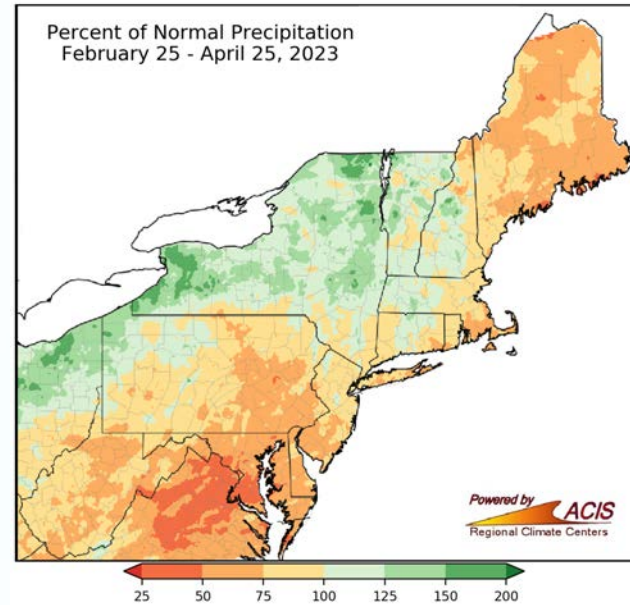
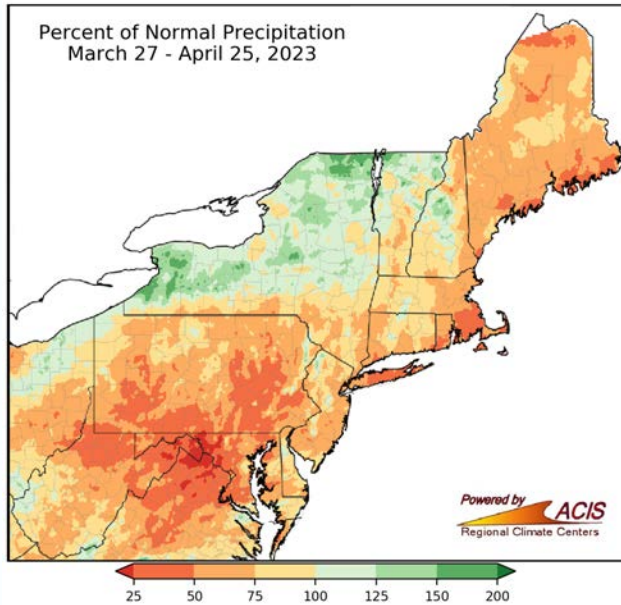
Richard Tinker
CPC/NOAA/NWS/NCEP



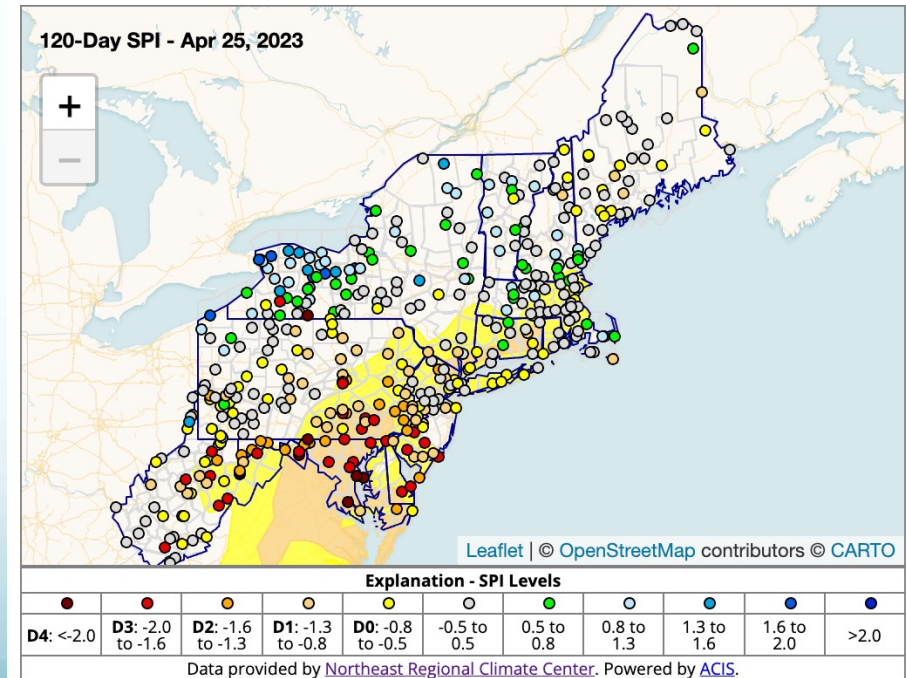
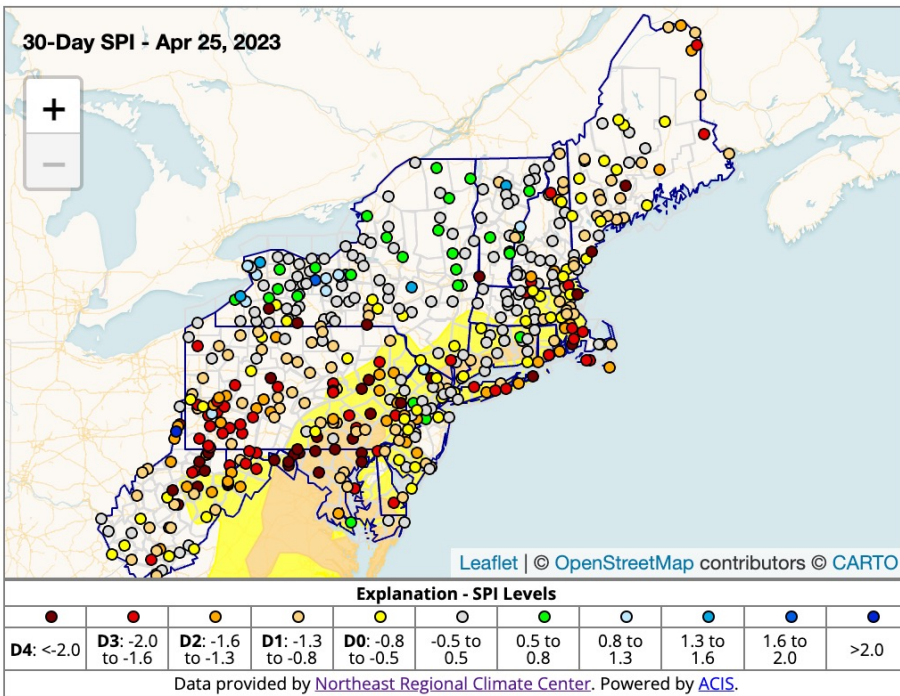
droughtmonitor.unl.edu



Precipitation



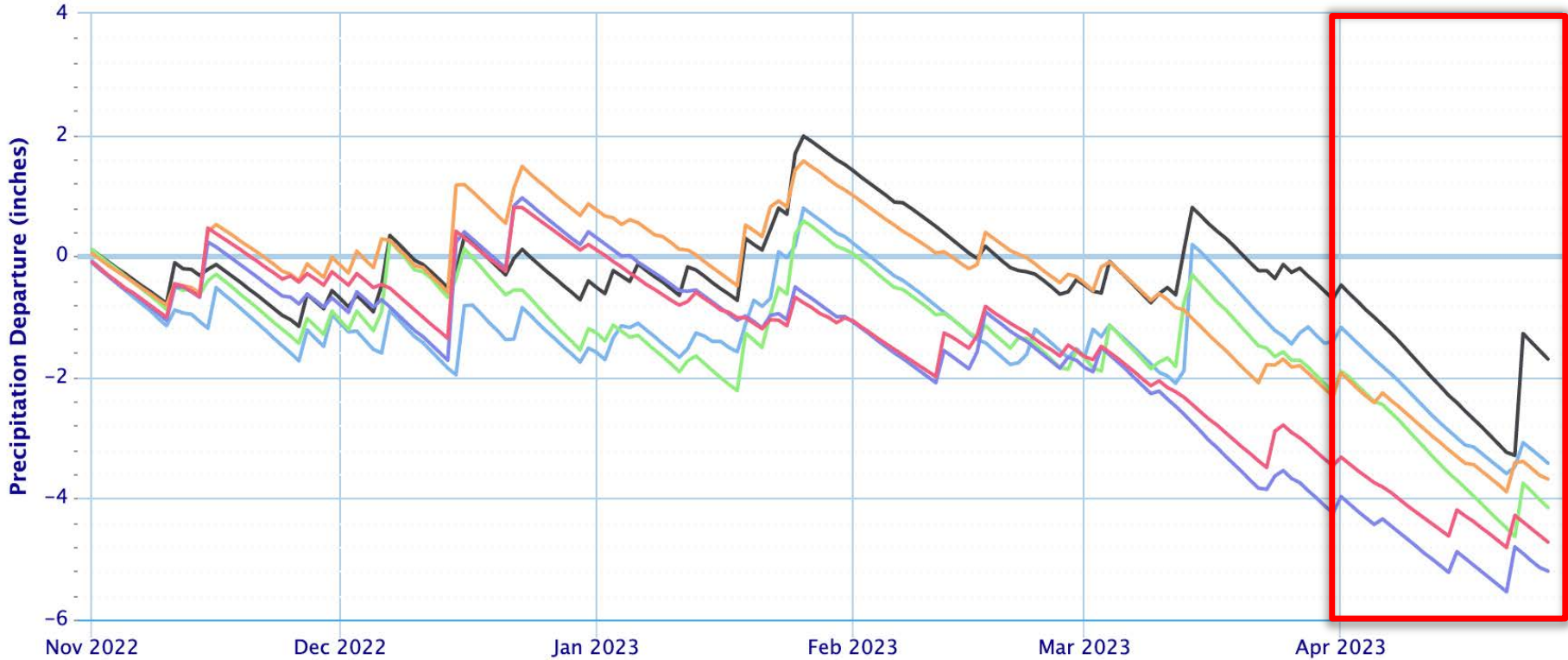
Standardized Precipitation Index



Precipitation

Accumulated Precipitation Departure from Normal

Green/black diamonds represent subsequent/missing values



(Click to hide/show lines)

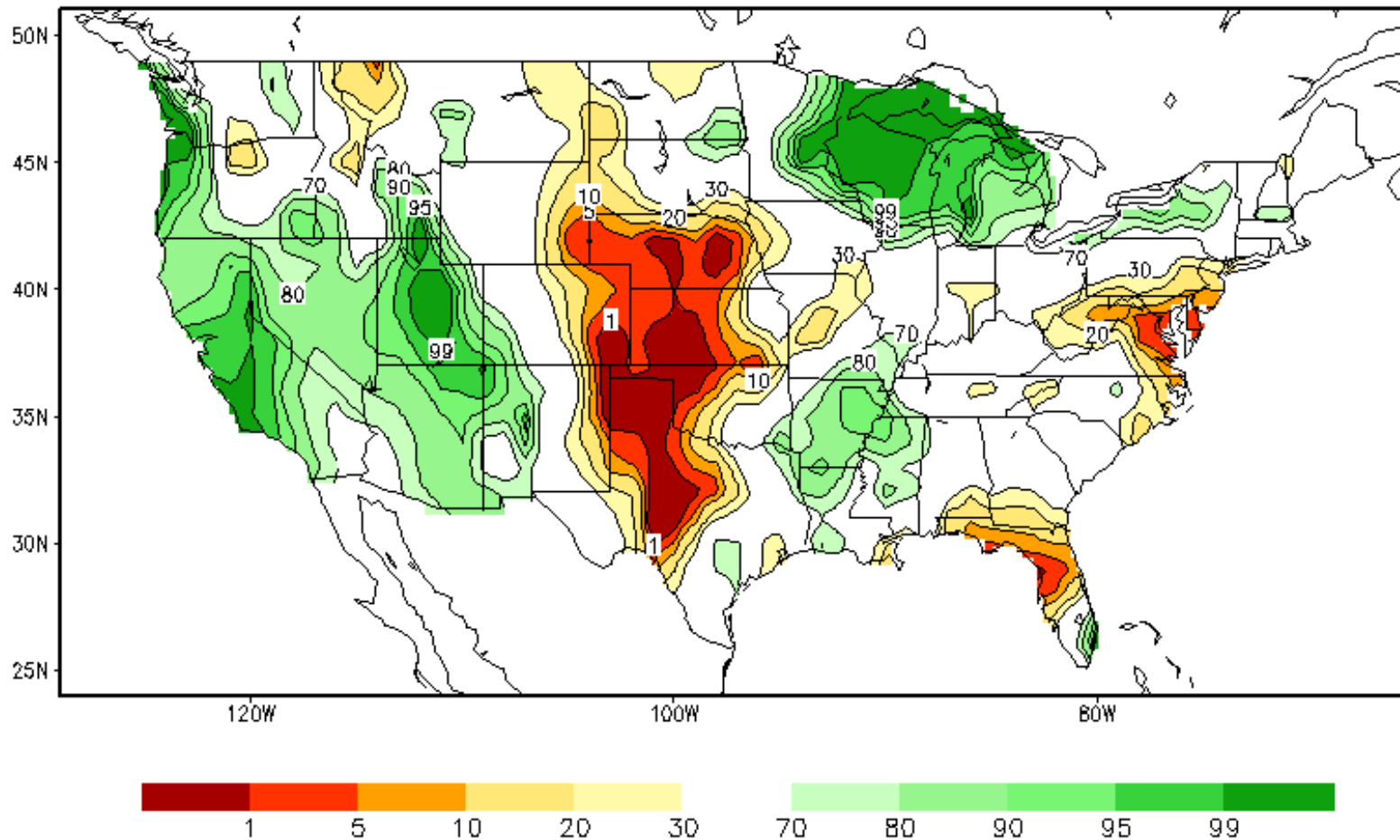
- Boston Area, MA (ThreadEx):Precip Dprt
- Bridgeport Area, CT (ThreadEx):Precip Dprt
- Islip Area, NY (ThreadEx):Precip Dprt
- Philadelphia Area, PA (ThreadEx):Precip Dprt
- Baltimore Area, MD (ThreadEx):Precip Dprt
- Washington Area, DC (ThreadEx):Precip Dprt

Powered by ACIS



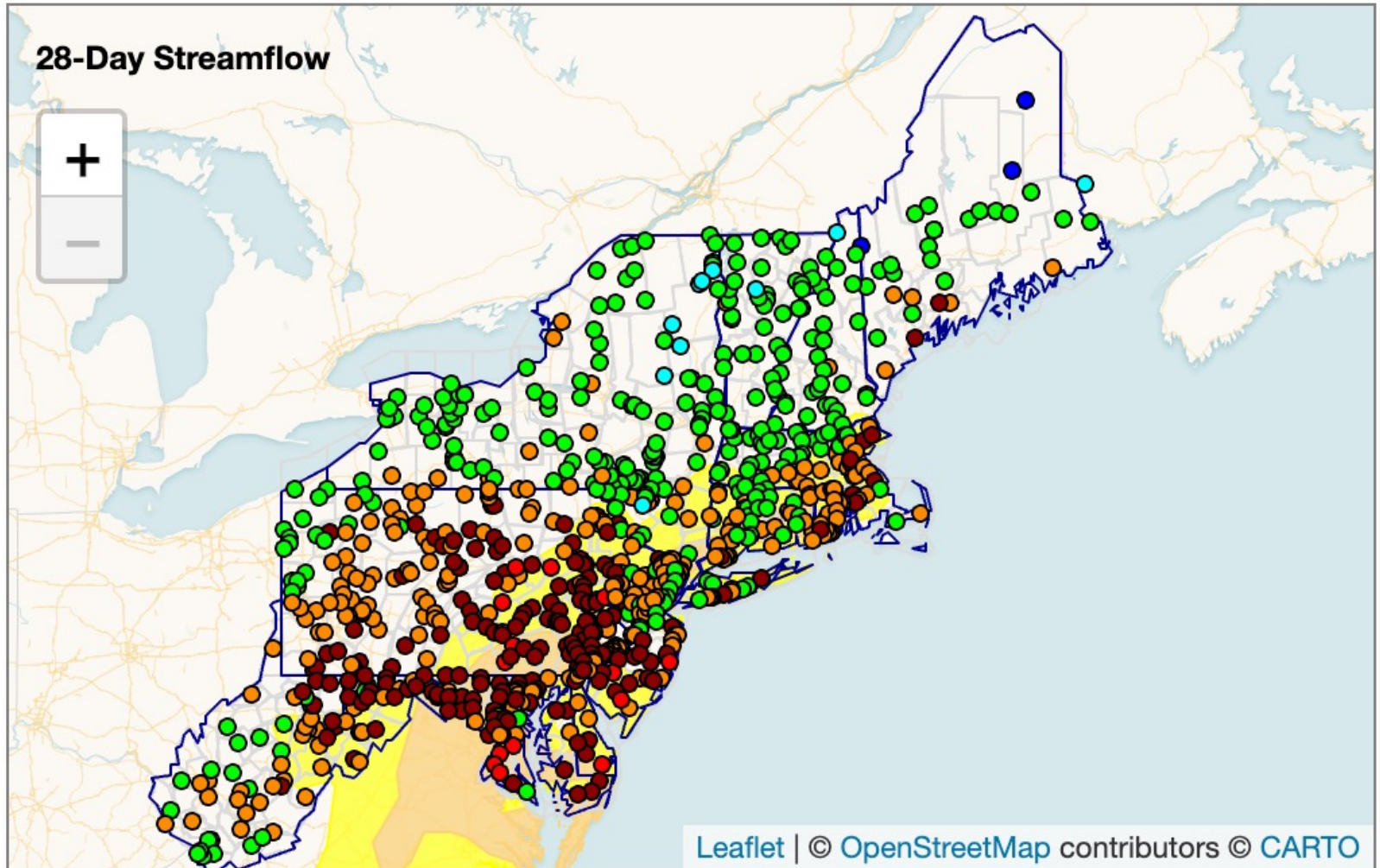
Soil Moisture

Calculated Soil Moisture Ranking Percentile
APR 25, 2023



Courtesy of
NOAA CPC

Streamflow



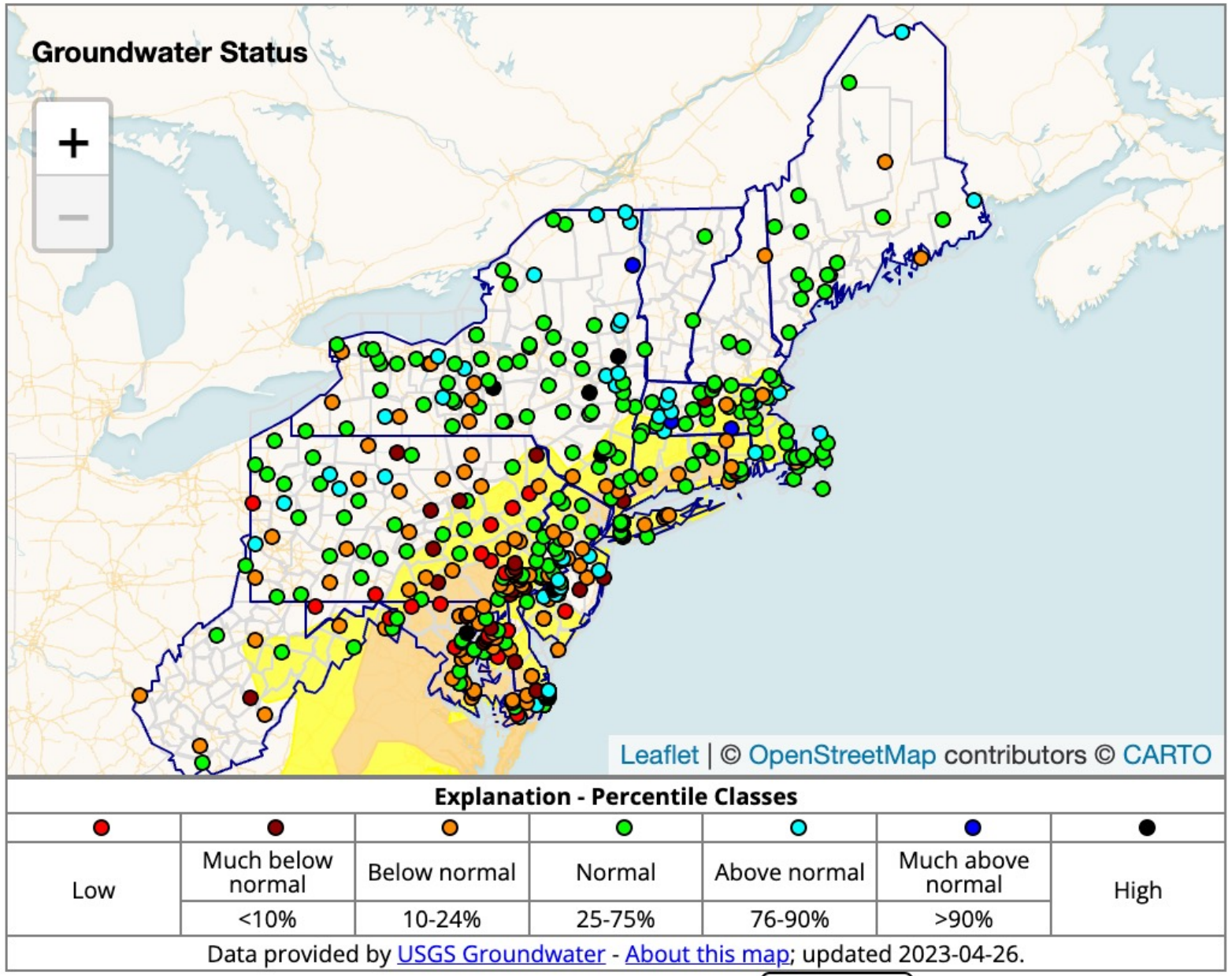
Explanation - Percentile Classes

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 2023-04-26.

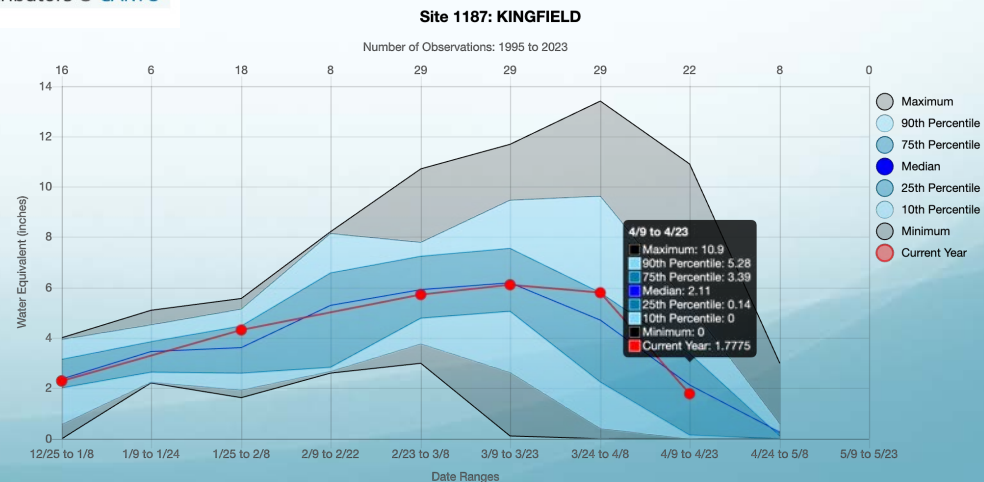
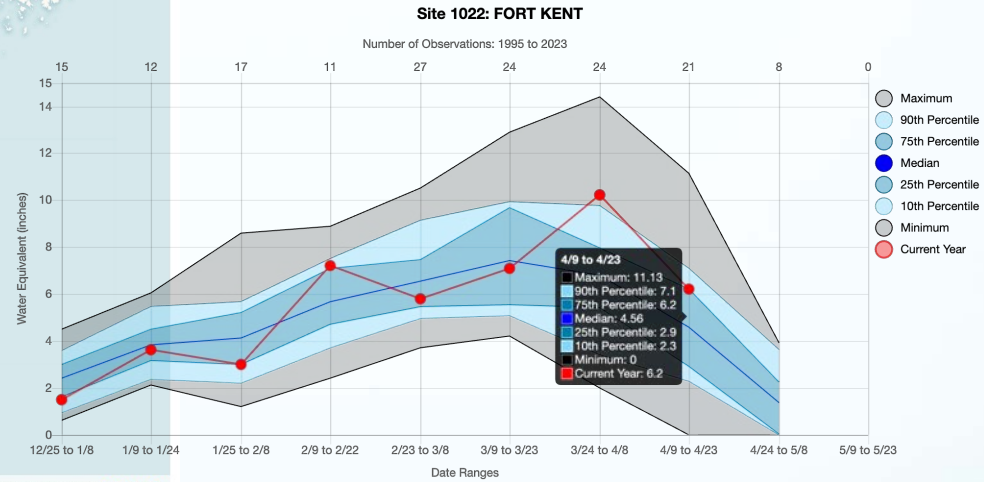
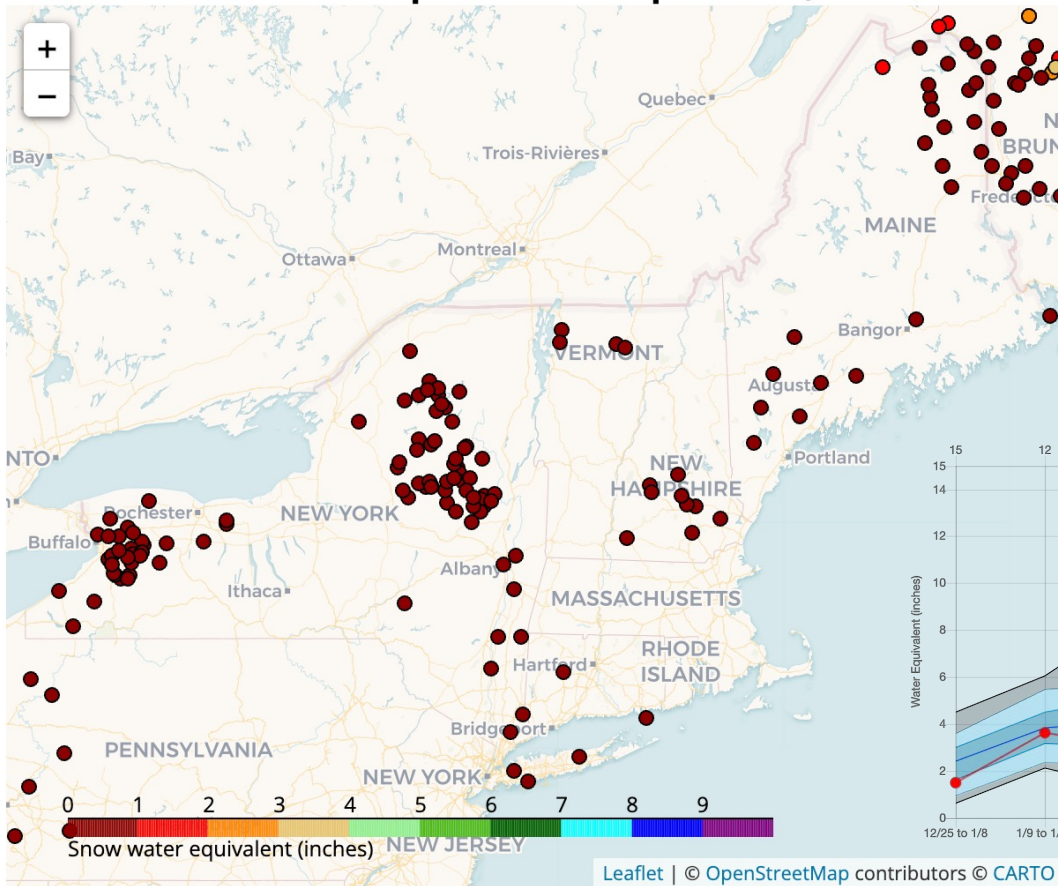


Groundwater



Snow Water Equivalent for April 23-25, 2023

Snow Water Equivalent

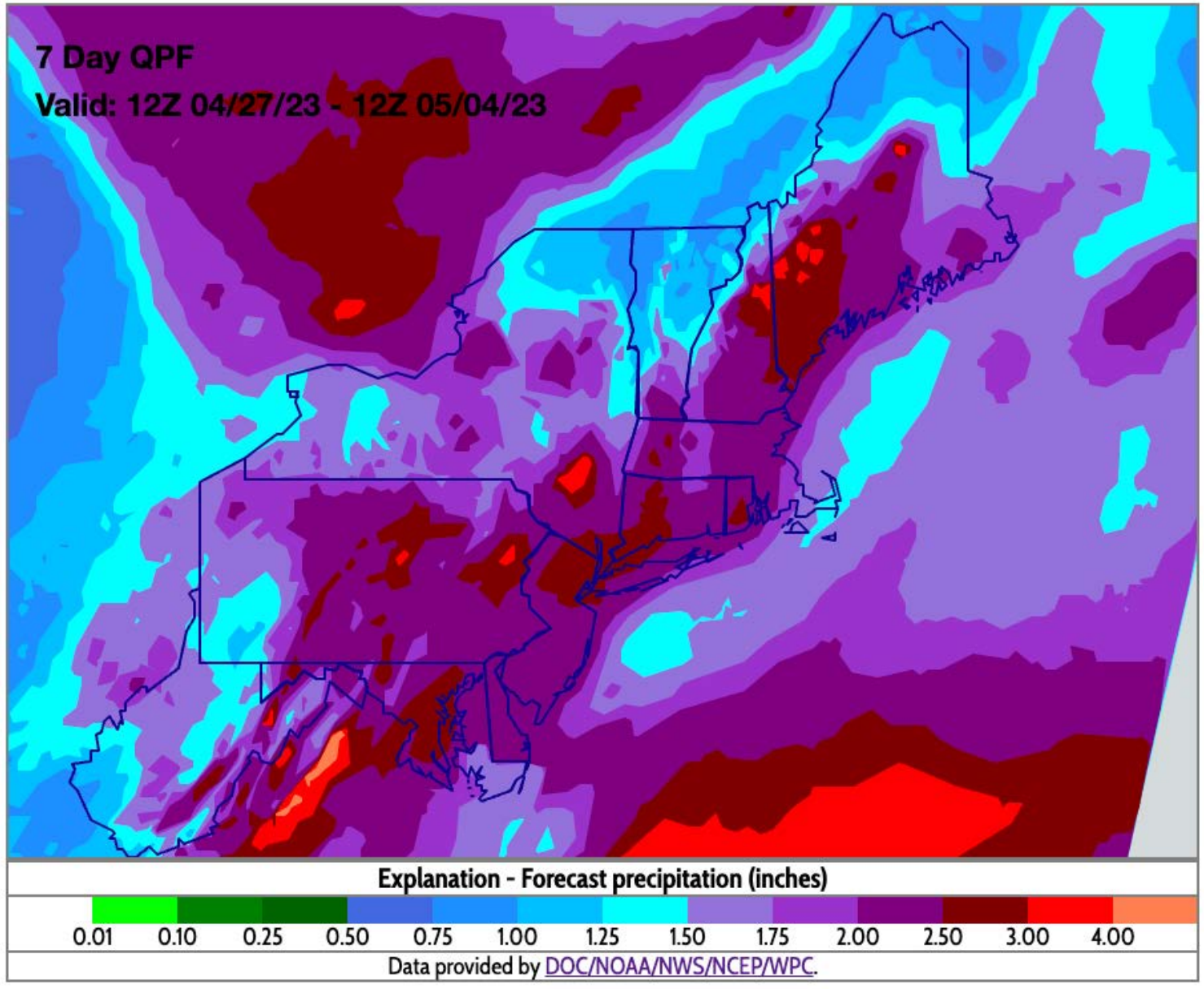


<http://www.nrcc.cornell.edu/regional/snowsurvey/snowsurvey.html>

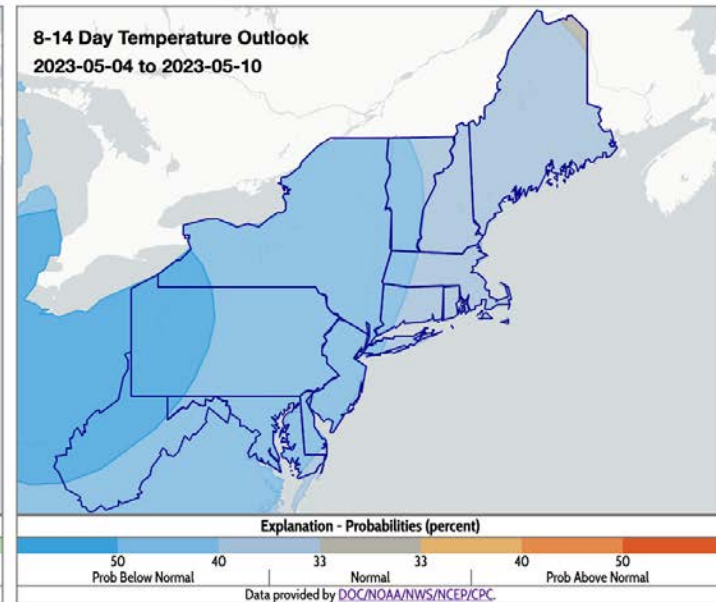
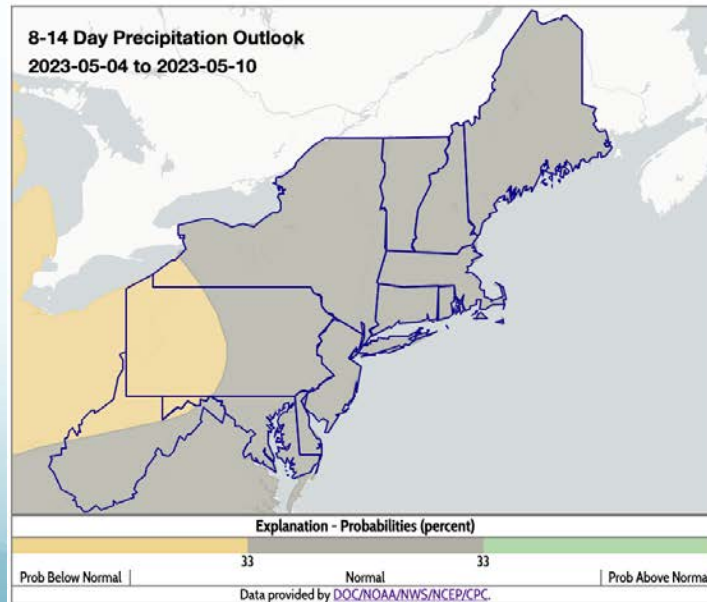
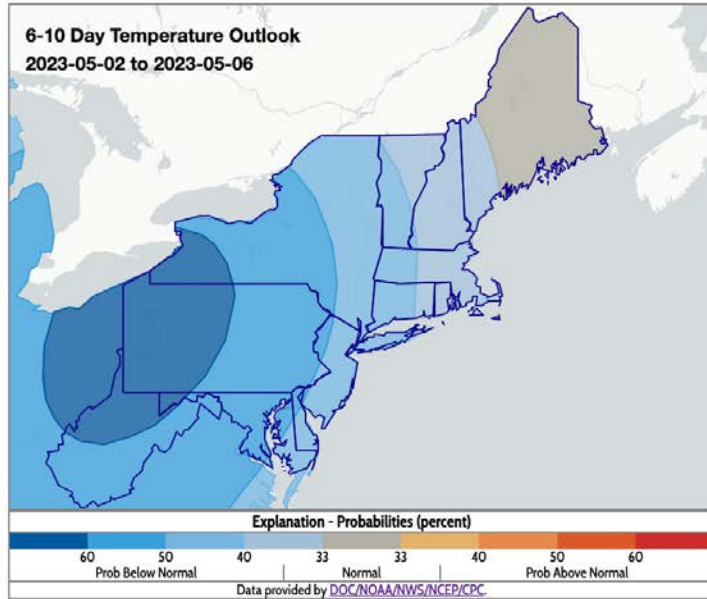
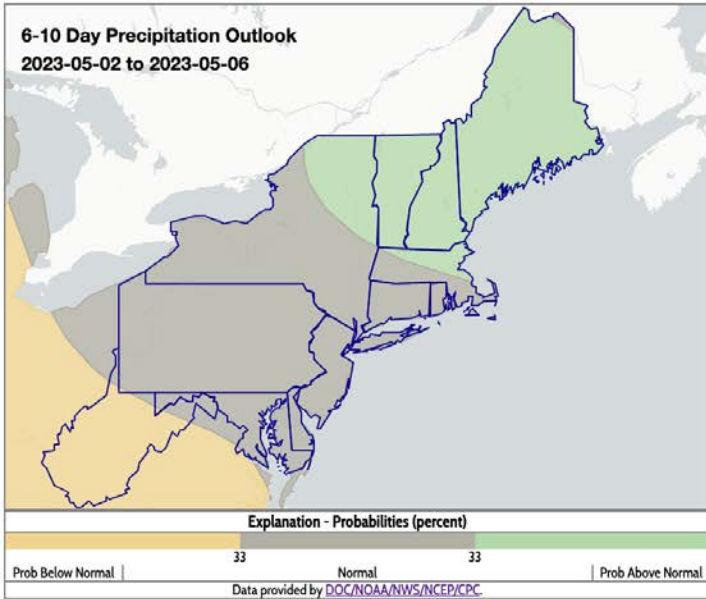
https://www.maine.gov/dacf/mgs/hazards/snow_survey/snow_graphs.shtml



Precipitation Forecast



Short-term Outlooks



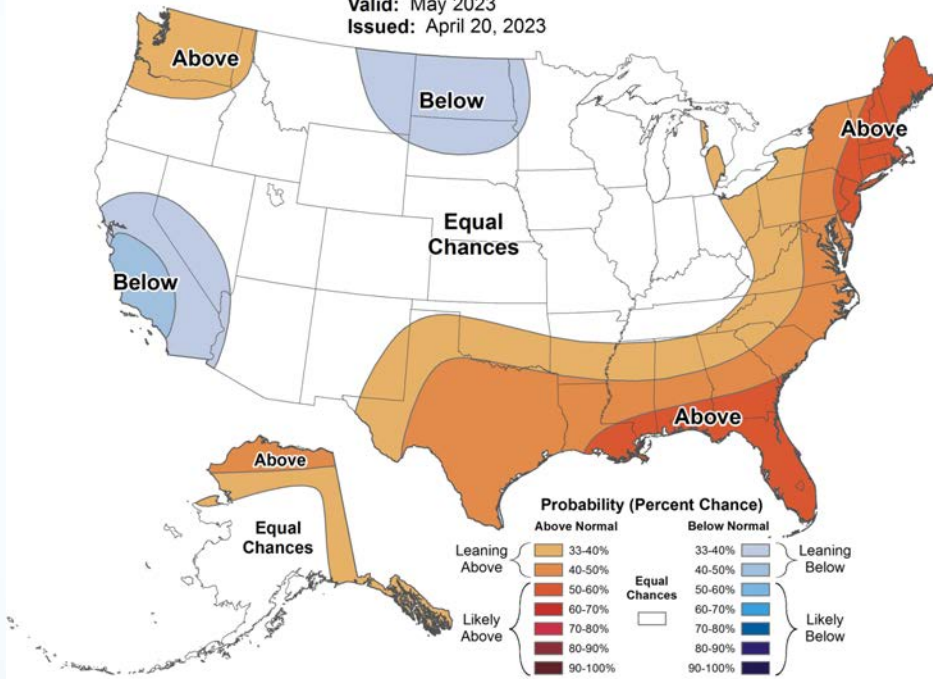
Monthly Outlooks



Monthly Temperature Outlook



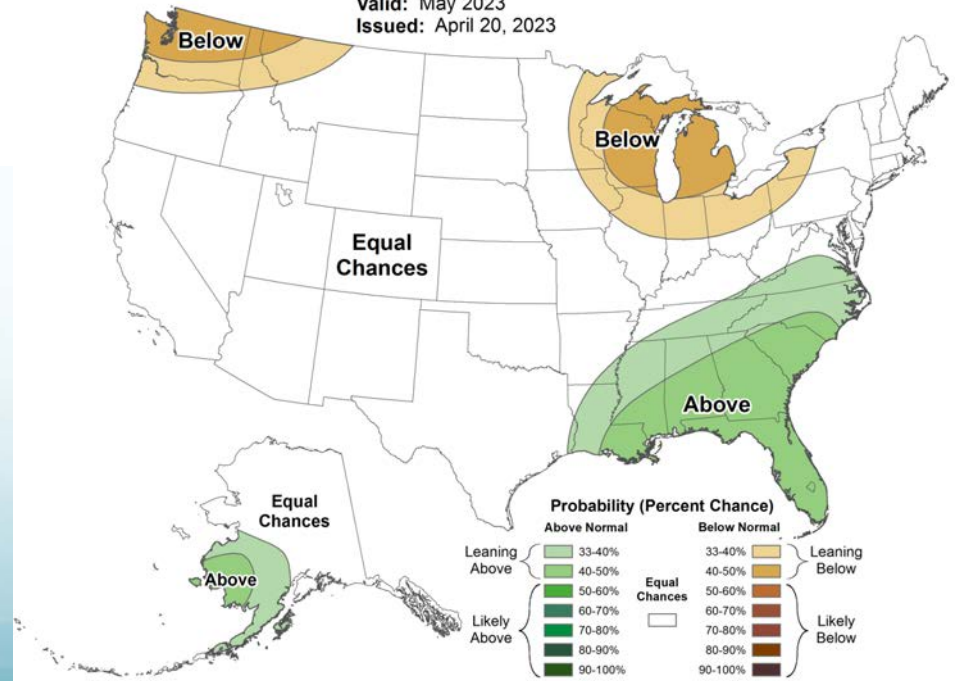
Valid: May 2023
Issued: April 20, 2023



Monthly Precipitation Outlook



Valid: May 2023
Issued: April 20, 2023



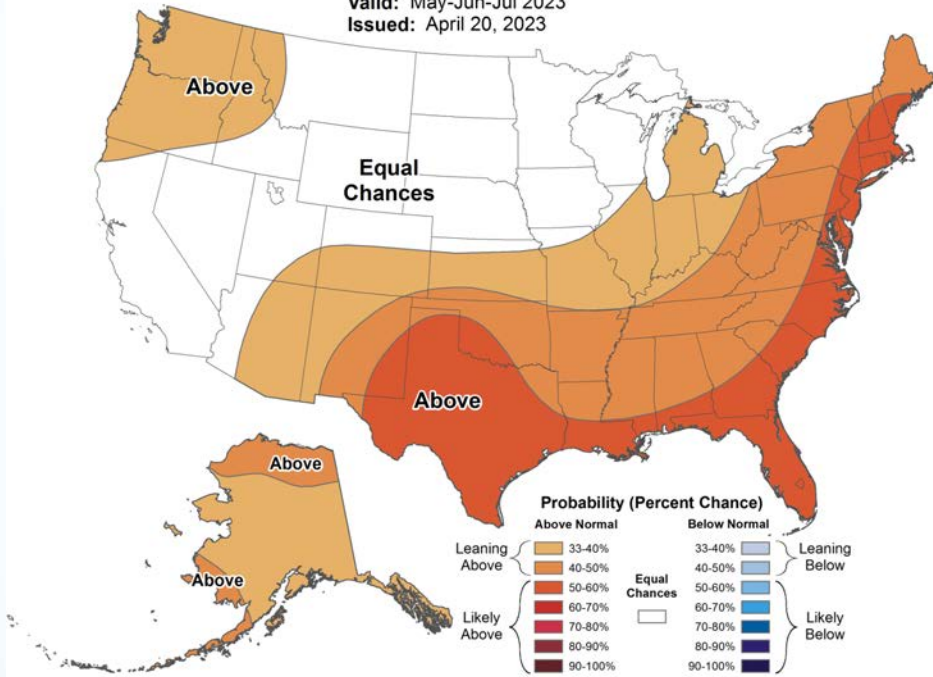
Seasonal Outlooks



Seasonal Temperature Outlook



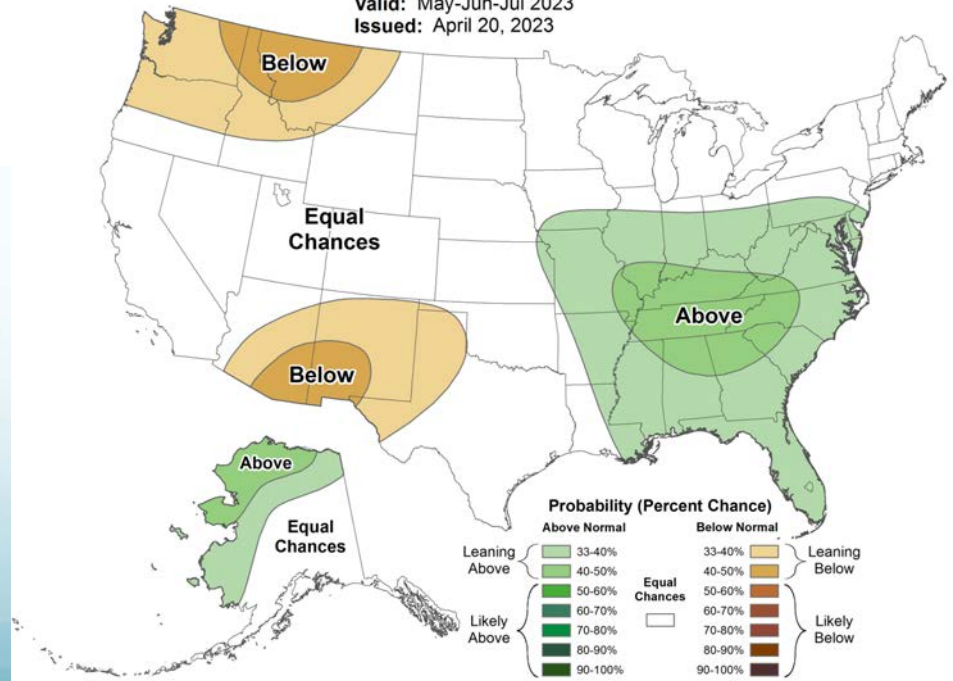
Valid: May-Jun-Jul 2023
 Issued: April 20, 2023



Seasonal Precipitation Outlook



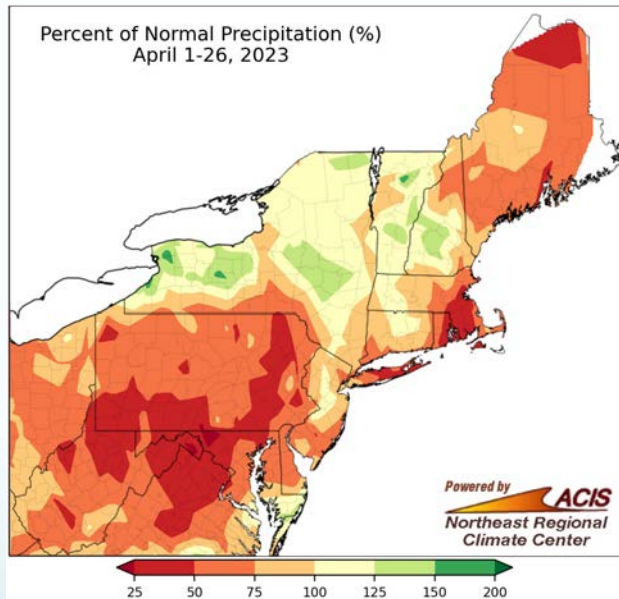
Valid: May-Jun-Jul 2023
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Summary

April-to-date conditions:

- Near- or -above-normal temperatures
- Below-or near-normal precip/snowfall in many areas except for some parts of NY and New England



Drought:

- Moderate drought and abnormal dryness expanded/introduced in areas from WV to southern New England

Outlooks:

- Short-term: wet weather Friday-early next week – some relief from dryness?; below- or near-normal precipitation for many areas except wetter in New England for 6-10 day; below- or near-normal temperatures favored for both periods
- May: Equal chances most areas but drier few interior areas; above-normal temperatures for all
- May-July: Above-normal precipitation for Mid-Atlantic with equal chances elsewhere; above-normal temperatures for all



Contact Information

- nrcc@cornell.edu

Upcoming Webinars

- Thursday, May 25 at 9:30am EDT
 - Improving the NOAA ER Climate Services Monthly Webinar
- Thursday, June 29 at 9:30am EDT
 - Heat Projects
- Thursday, July 27 at 9:30am EDT
 - TBD
- Thursday, August 31 at 9:30am EDT
 - Hurricane Season Update and Outlook

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