

April Review & Northeast DEWS Discussion

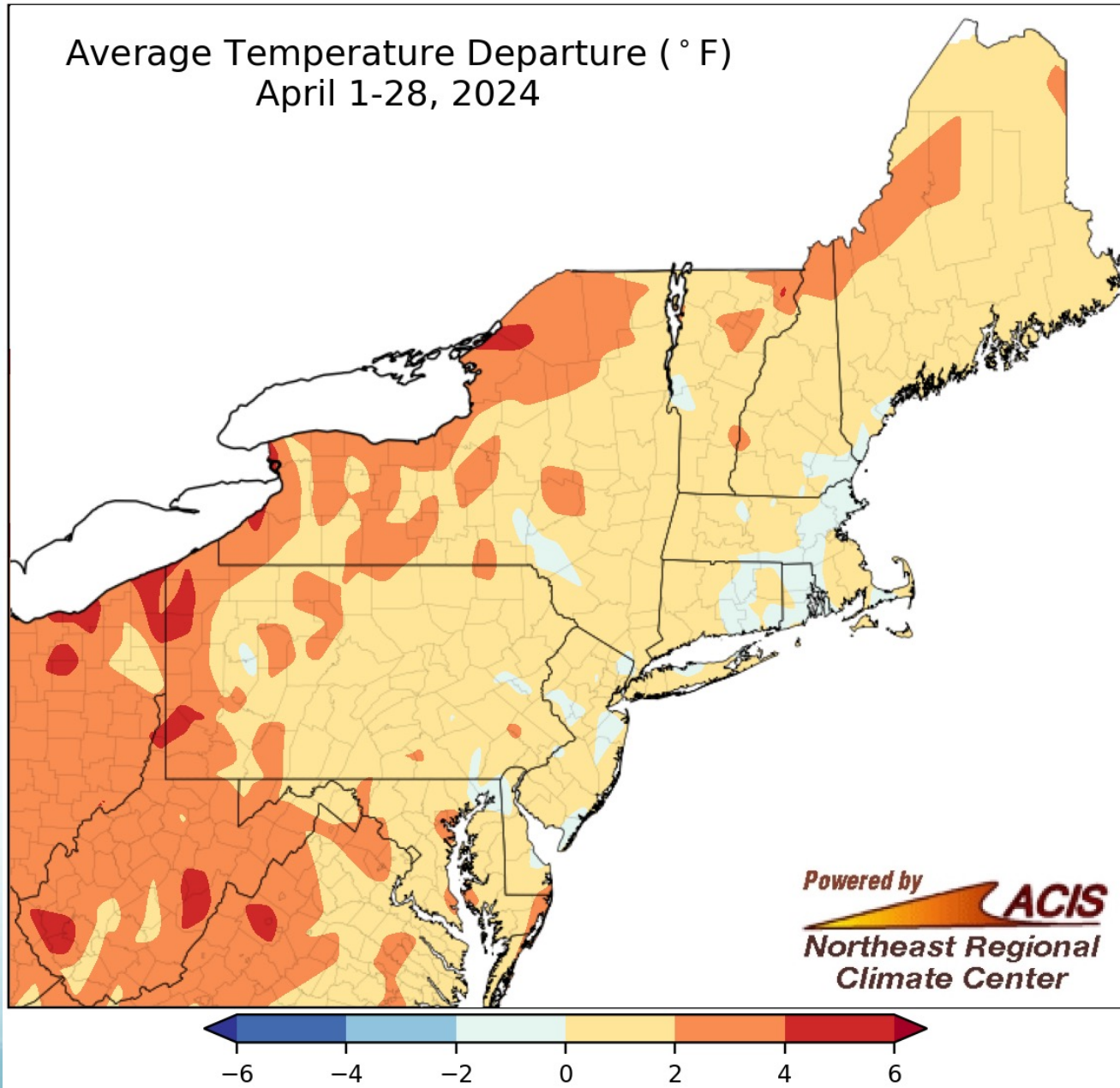
By: Samantha Borisoff, Climatologist
Northeast Regional Climate Center



Northeast Regional
Climate Center



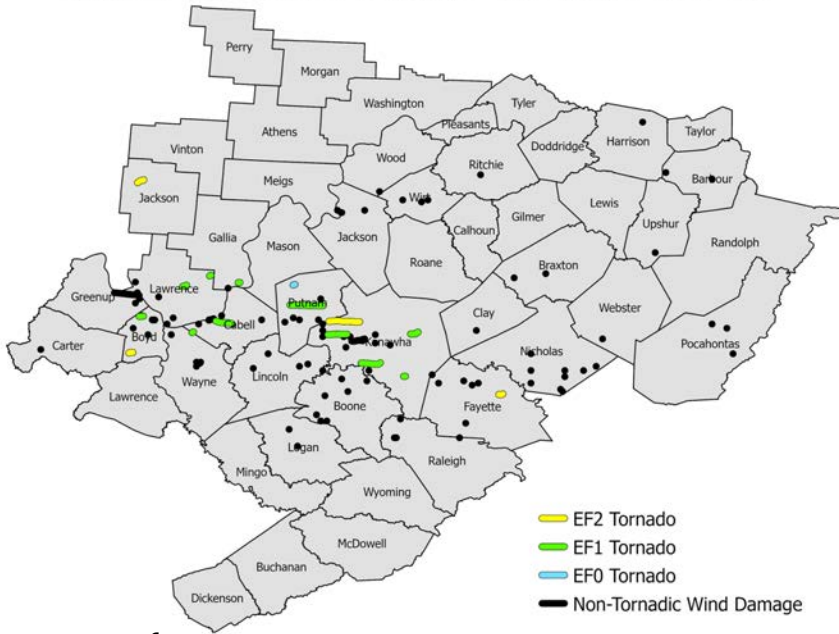
April Temperatures



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

April Storms

April 2, 2024 Wind Damage & Tornado Reports



Courtesy of
NWS RLX

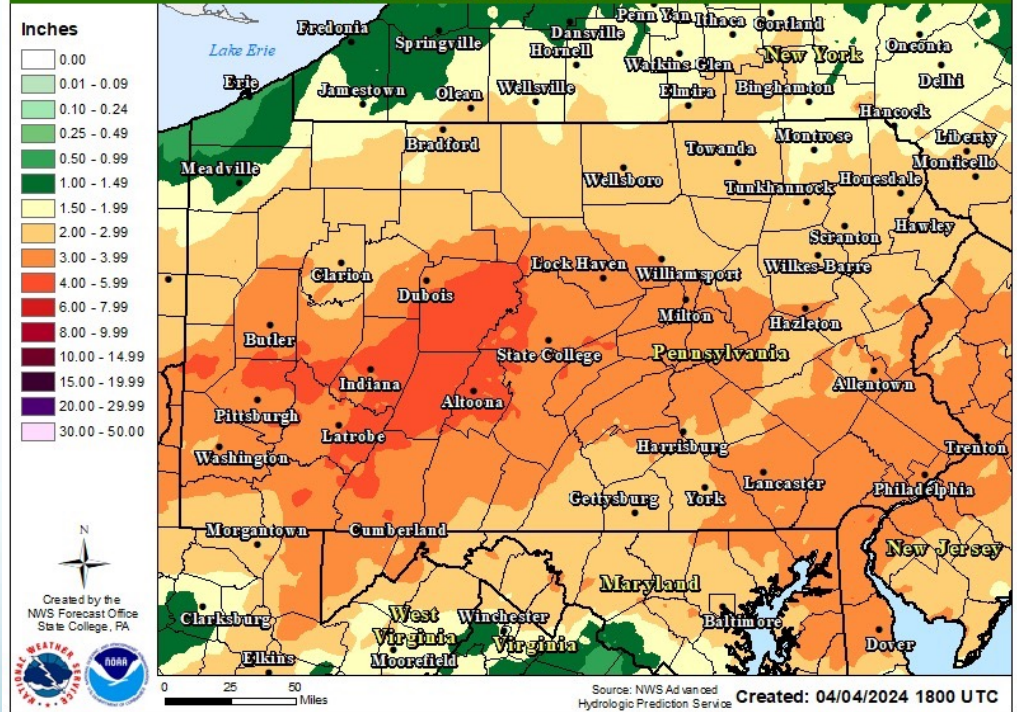


Maximum 1-Day Total Precipitation for Elkins Area, WV (ThreadEx)

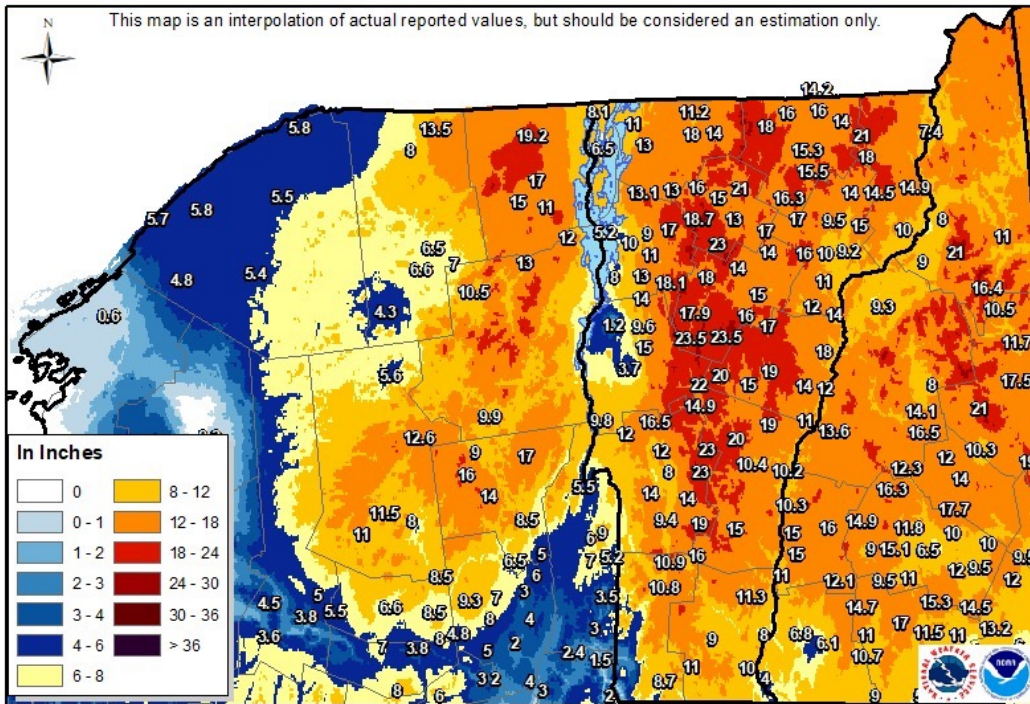
Click column heading to sort ascending, click again to sort descending.

Rank	Value	Ending Date
1	2.40	2024-04-03
2	2.12	1937-04-25
3	2.07	2009-04-29
4	2.01	1901-04-03
5	1.90	1966-04-30

Observed Precipitation To Date - April



North Country Storm Total Snowfall Ending April 5, 2024



Created by the National Weather Service Forecast Office Burlington, Vermont
Sources: NWS observers & spotters, media, public, state & local officials

Created: 4/5/2024 4:51 PM

Maximum 1-Day Total Precipitation for Charleston Area, WV (ThreadEx)

Click column heading to sort ascending, click again to sort descending.

Rank	Value	Ending Date
1	3.32	2024-04-11
2	2.47	1977-04-04
3	2.35	1939-04-16
4	2.10	1922-04-15
5	2.08	1901-04-19



April Storms

Flash Flood Emergency

Valid Until
12:00 AM EDT Friday
April 12, 2024

Safety Information

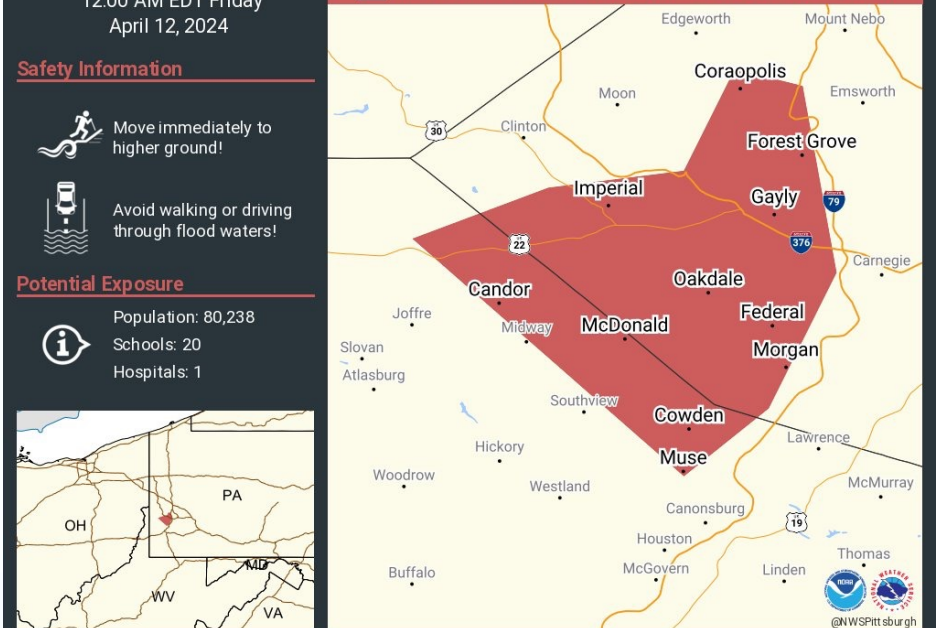
Move immediately to higher ground!

Avoid walking or driving through flood waters!

Potential Exposure

Population: 80,238
Schools: 20
Hospitals: 1

This is a life threatening situation. Seek higher ground now!

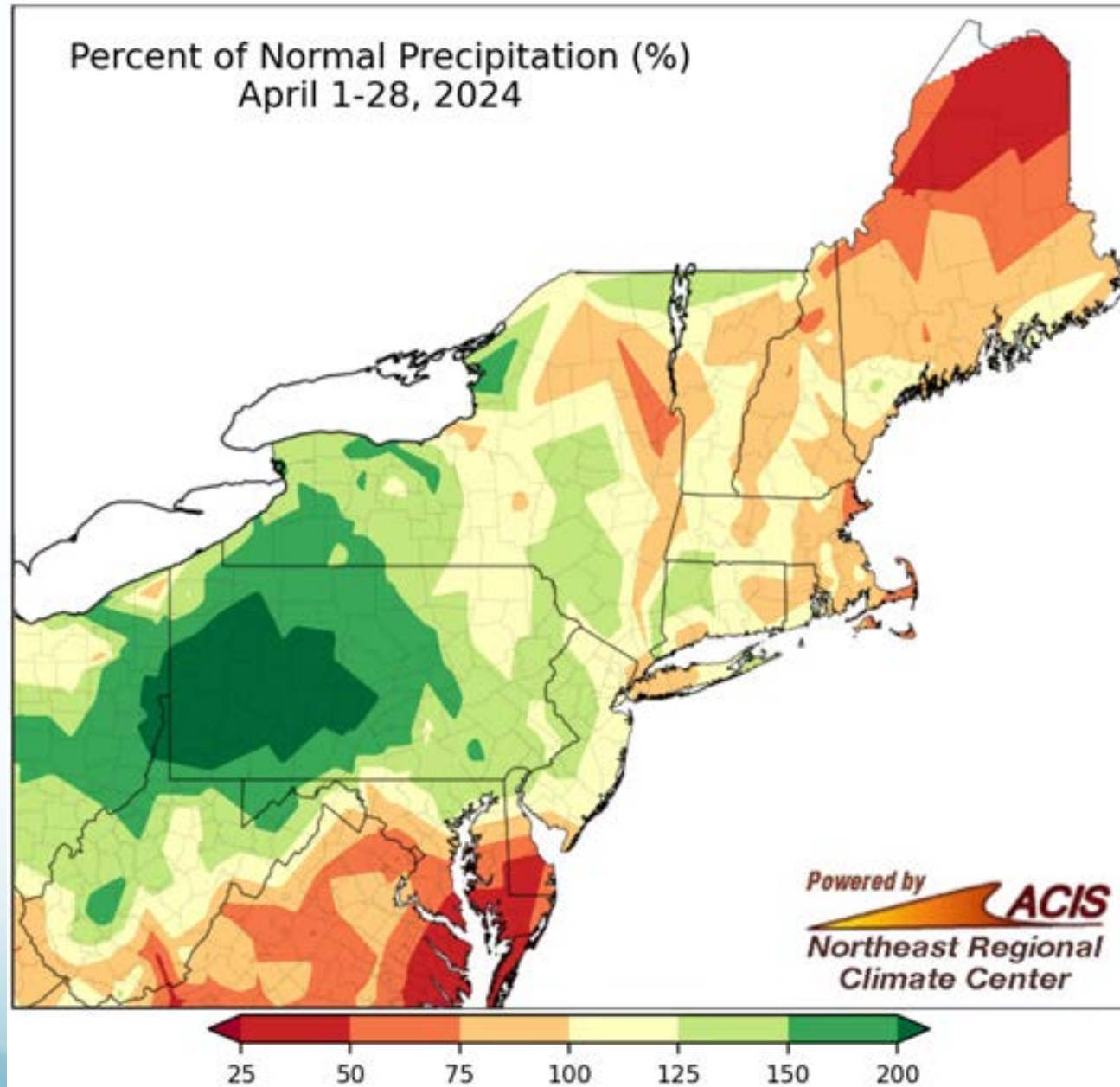


Maximum 1-Day Total Precipitation for Pittsburgh Area, PA (ThreadEx)

Click column heading to sort ascending, click again to sort descending.

Rank	Value	Ending Date
1	2.77	2024-04-11
2	2.68	2024-04-02
3	2.34	1922-04-14
4	2.24	1901-04-20
5	2.05	1901-04-03

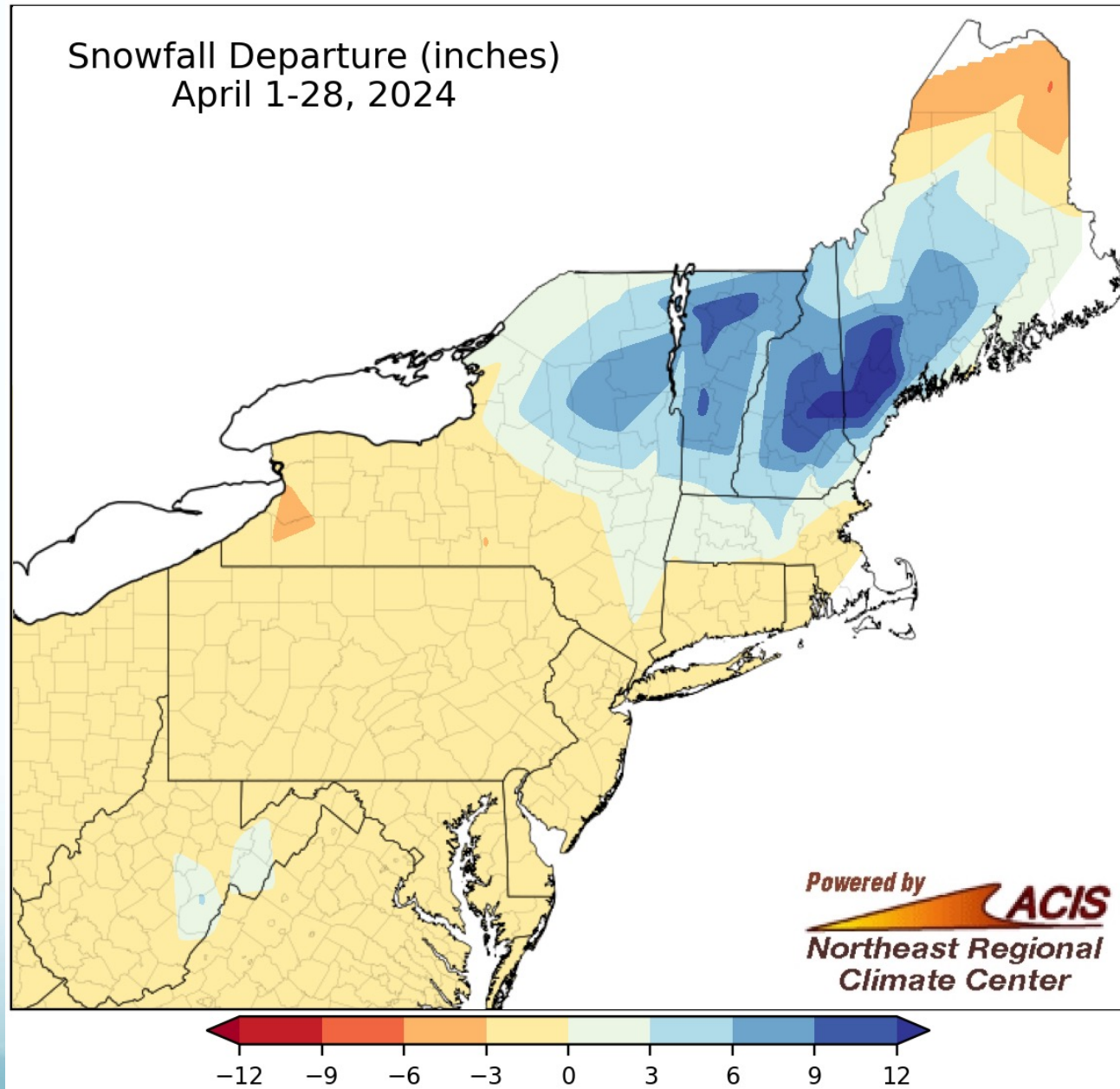
April Precipitation



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



April Snowfall



From 6" below normal to more than 12" above normal



Drought Monitor

U.S. Drought Monitor Northeast

March 26, 2024
(Released Thursday, Mar. 28, 2024)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	97.54	1.98	0.49	0.00	0.00	0.00
Last Week 03-19-2024	97.54	1.98	0.49	0.00	0.00	0.00
3 Months Ago 12-26-2023	85.18	11.44	2.71	0.68	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 03-28-2023	92.34	6.36	1.30	0.00	0.00	0.00

Intensity:

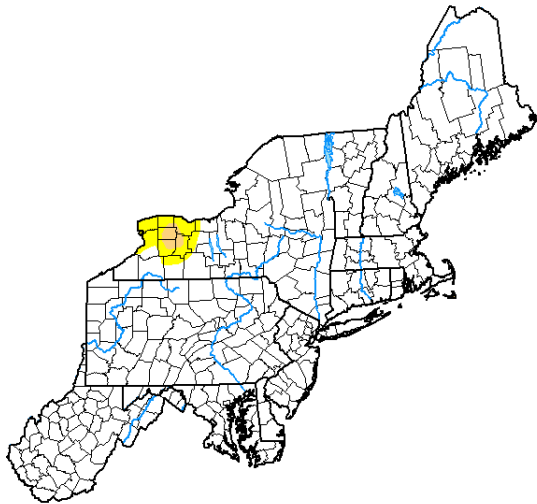
None	D2 Severe Drought
D0 Abnormally Dry	D3 Extreme Drought
D1 Moderate Drought	D4 Exceptional Drought

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:
Brad Rippey
U.S. Department of Agriculture



droughtmonitor.unl.edu



U.S. Drought Monitor Northeast

April 23, 2024
(Released Thursday, Apr. 25, 2024)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	98.11	1.89	0.00	0.00	0.00	0.00
Last Week 04-16-2024	98.11	1.89	0.00	0.00	0.00	0.00
3 Months Ago 01-23-2024	94.62	3.95	1.37	0.07	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 04-25-2023	72.19	21.66	6.15	0.00	0.00	0.00

Intensity:

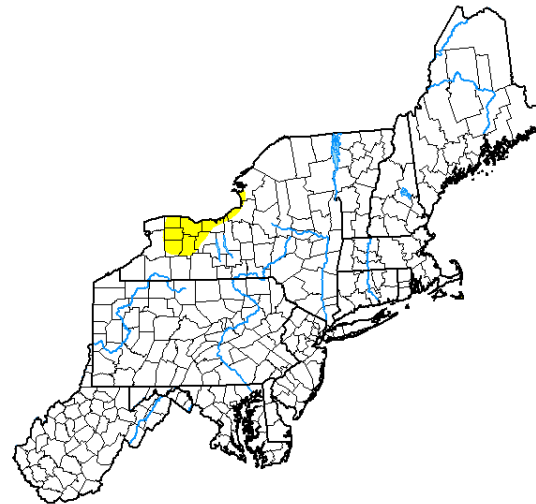
None	D2 Severe Drought
D0 Abnormally Dry	D3 Extreme Drought
D1 Moderate Drought	D4 Exceptional Drought

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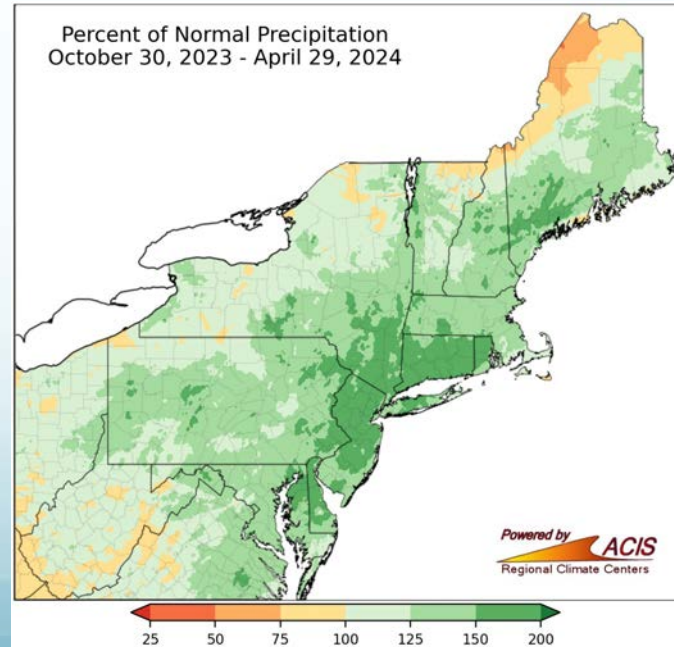
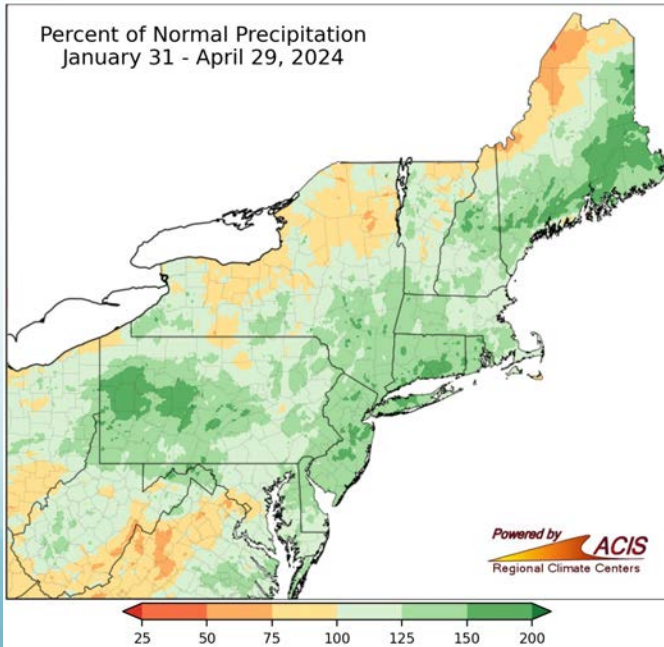
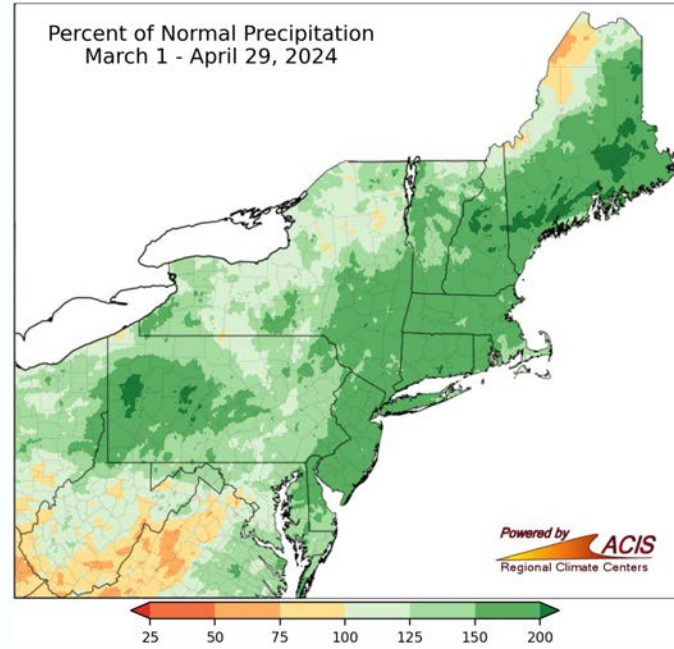
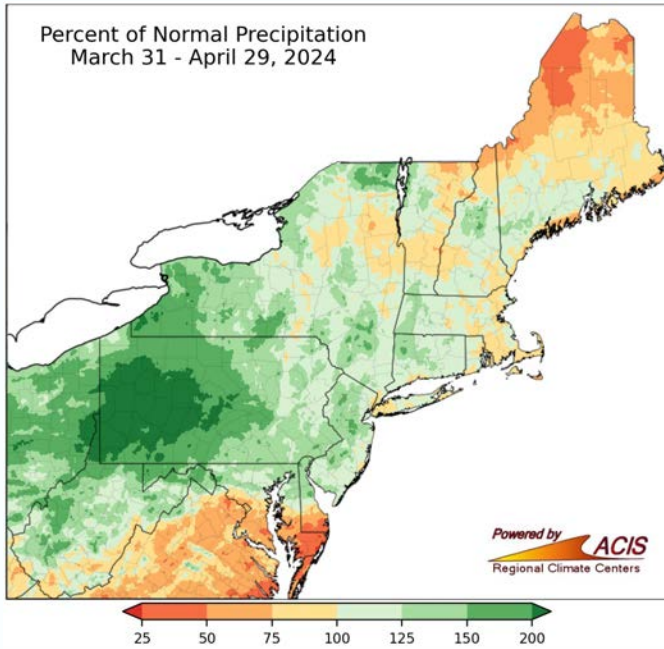
Author:
David Simeral
Western Regional Climate Center



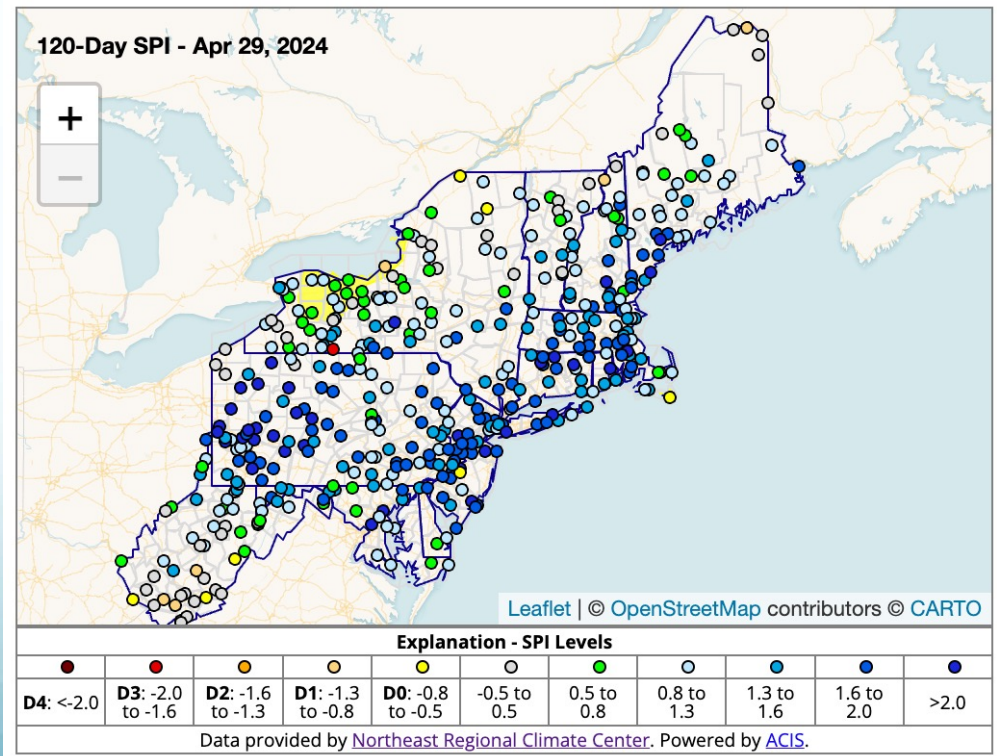
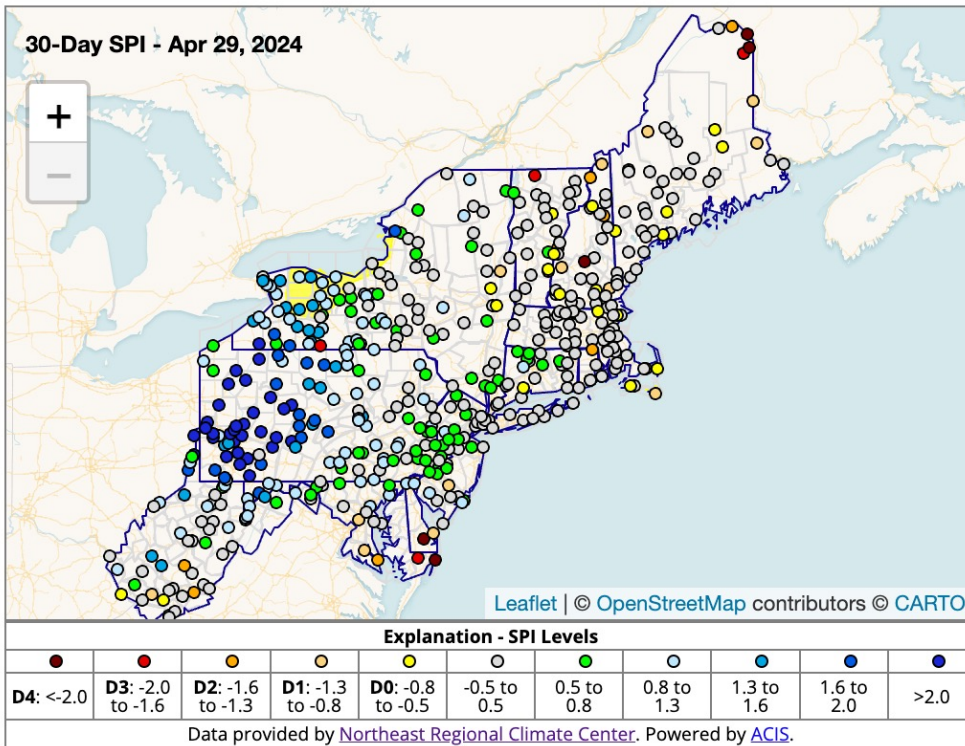
droughtmonitor.unl.edu



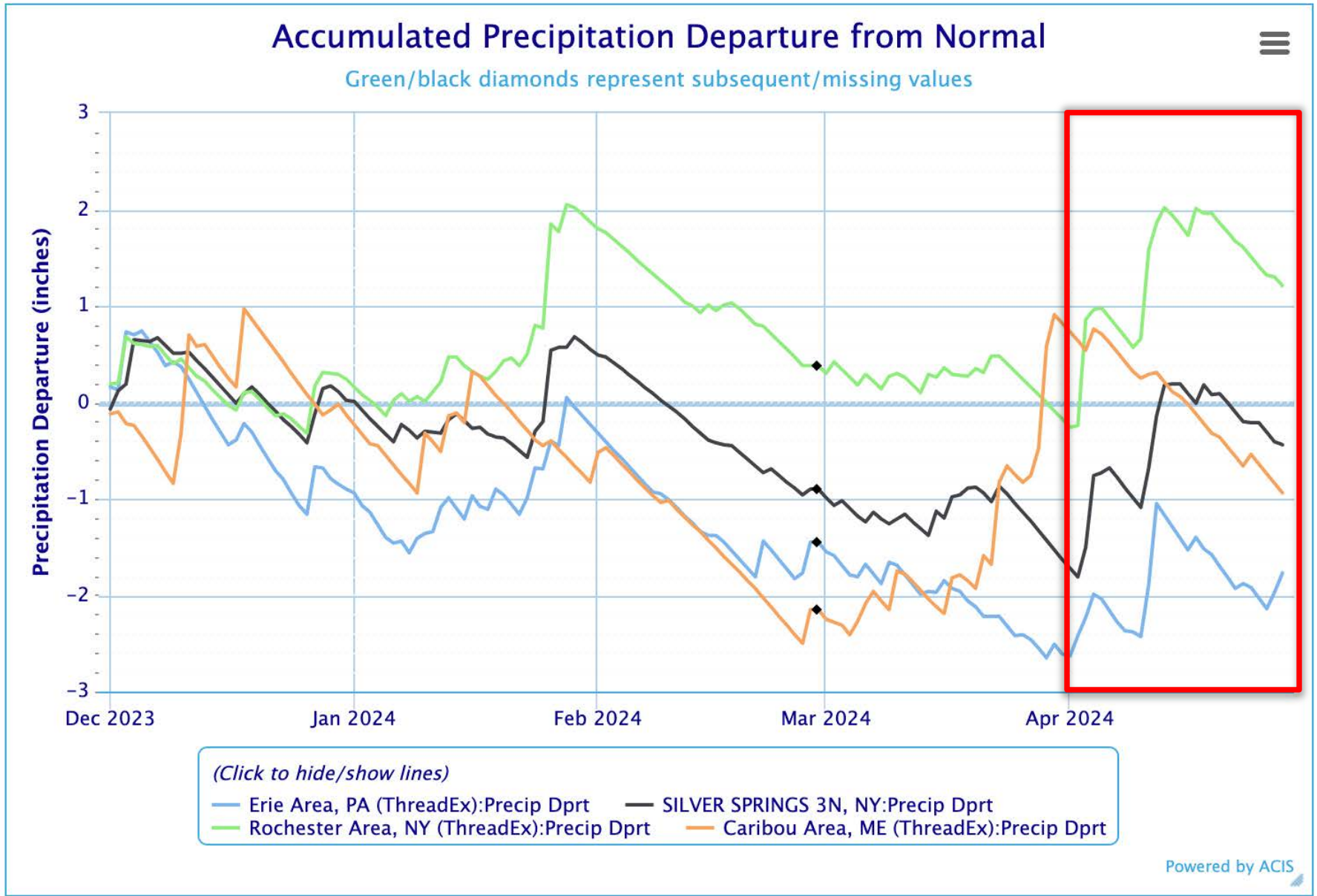
Precipitation



Standardized Precipitation Index



Precipitation

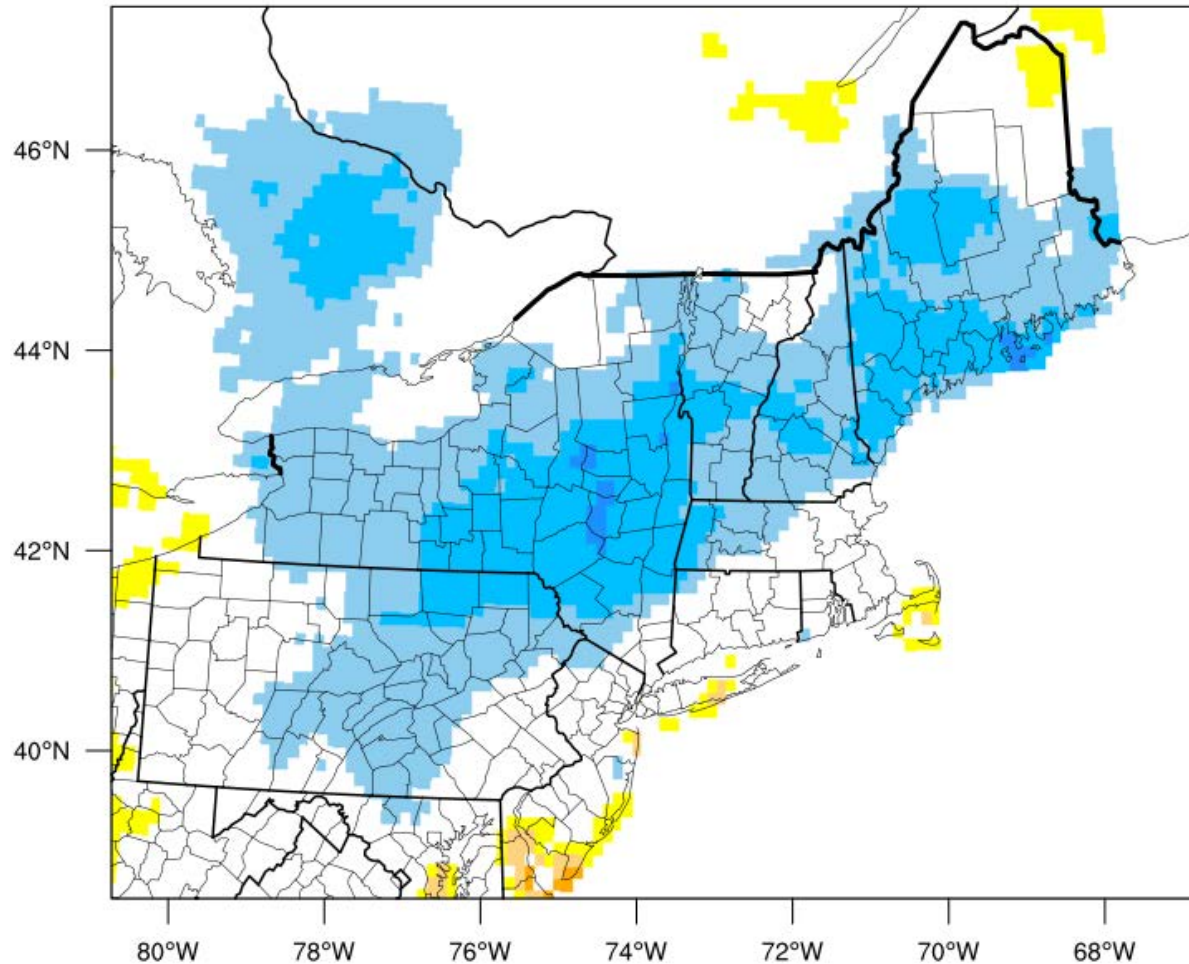


SWE



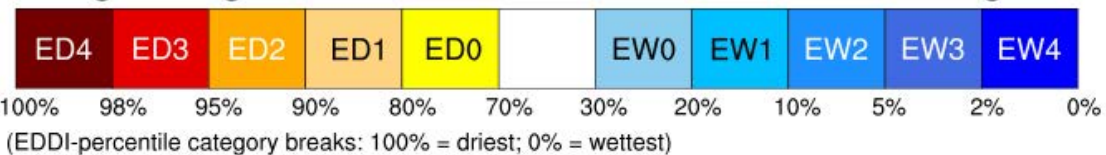
Evap. Demand Drought Index

3-week EDDI categories for April 24, 2024



Drought categories

Wetness categories

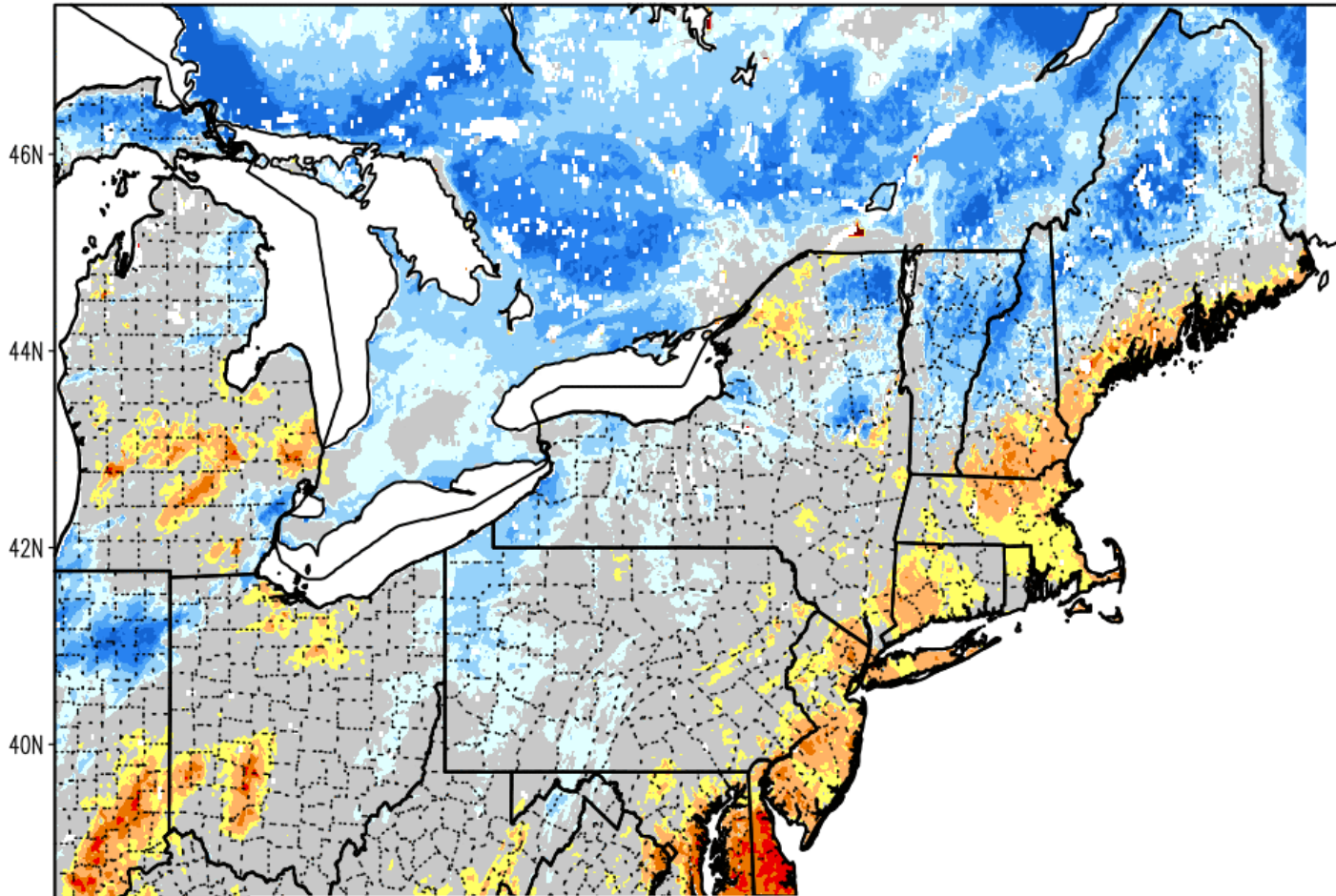


Generated by NOAA/ESRL/Physical Sciences Laboratory



Soil Moisture

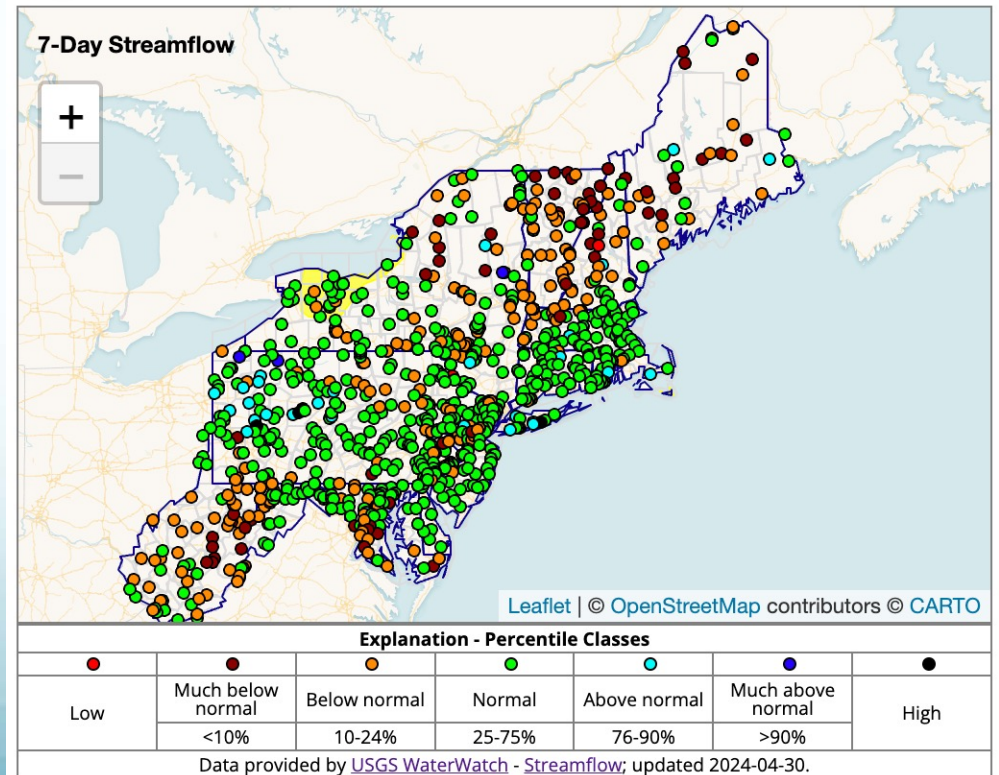
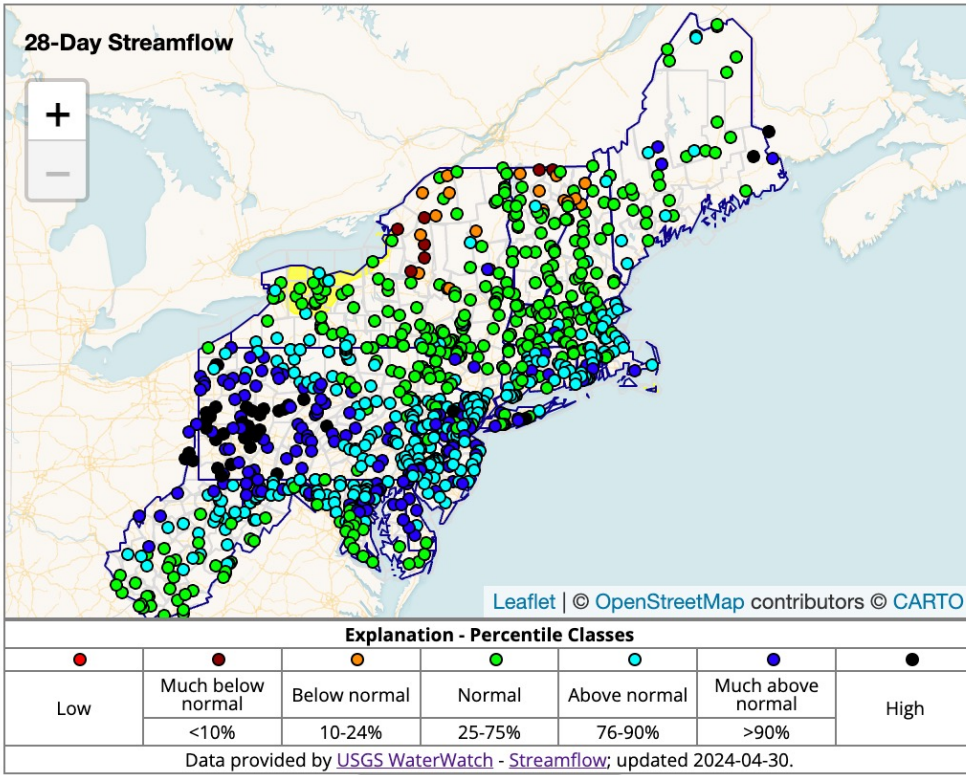
SPoRT-LIS 0-100 cm Soil Moisture percentile valid 30 Apr 2024



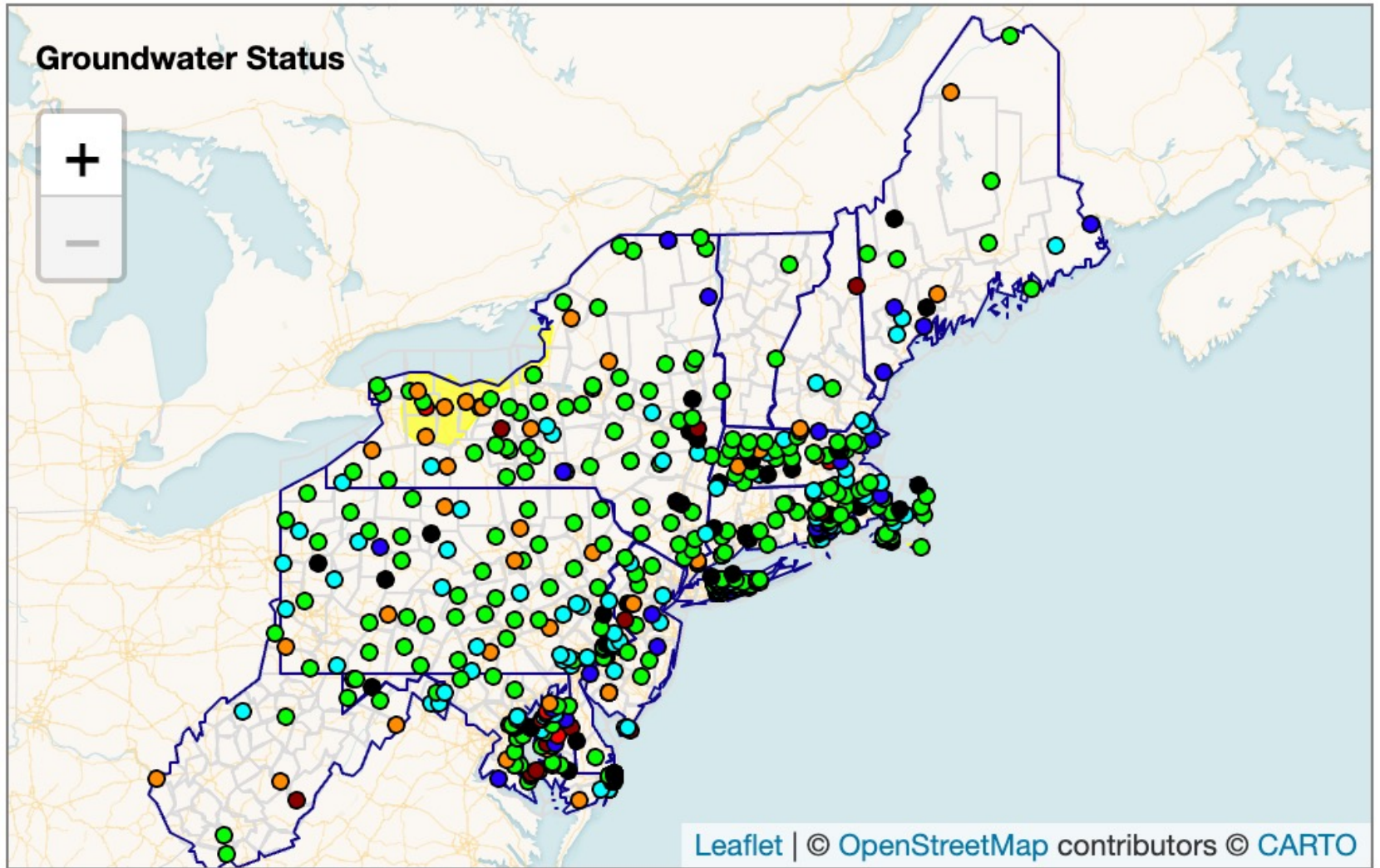
Courtesy of
NASA



Streamflow



Groundwater



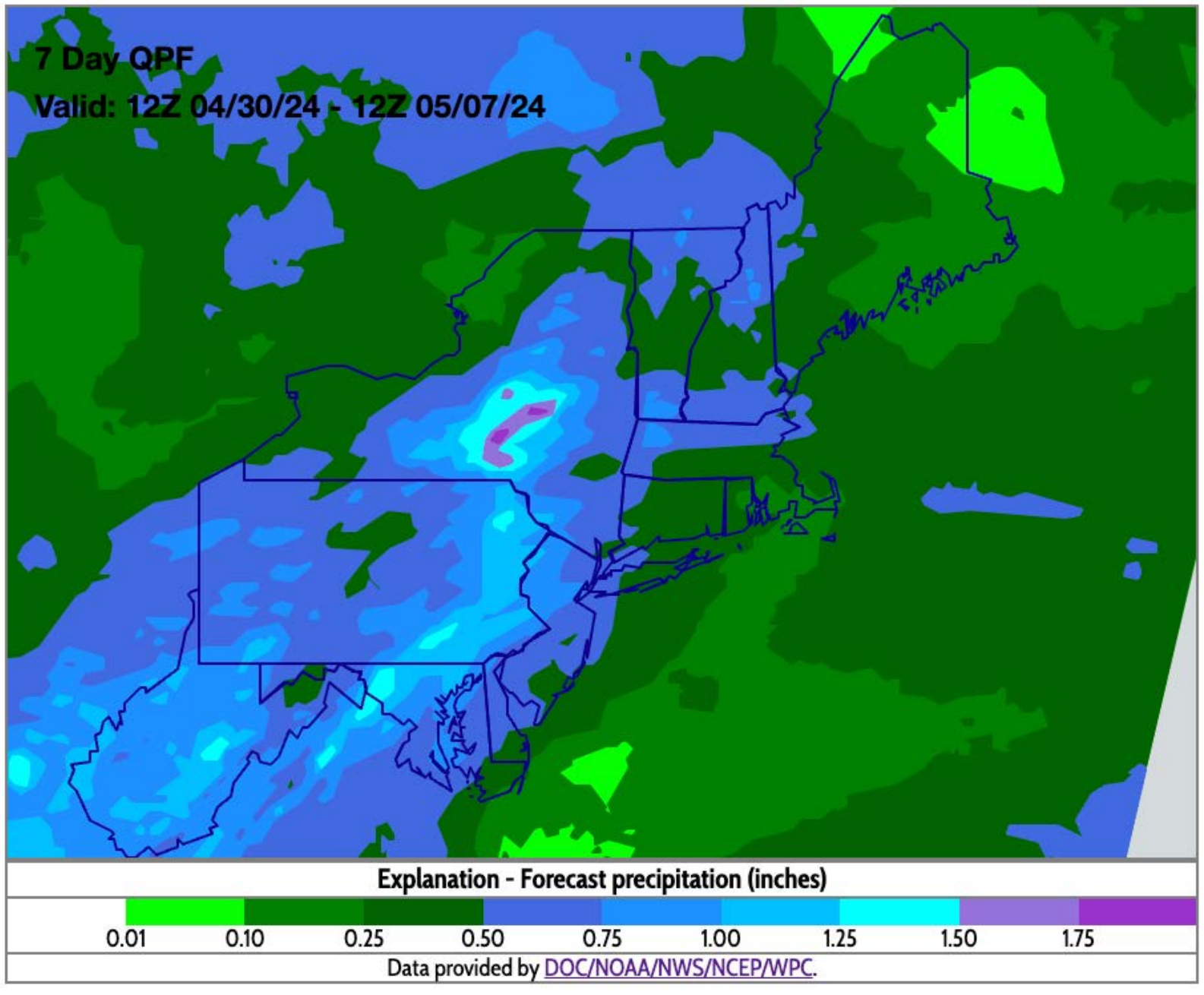
Explanation - Percentile Classes

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 2024-04-30.



Precipitation Forecast



Short-term Outlooks



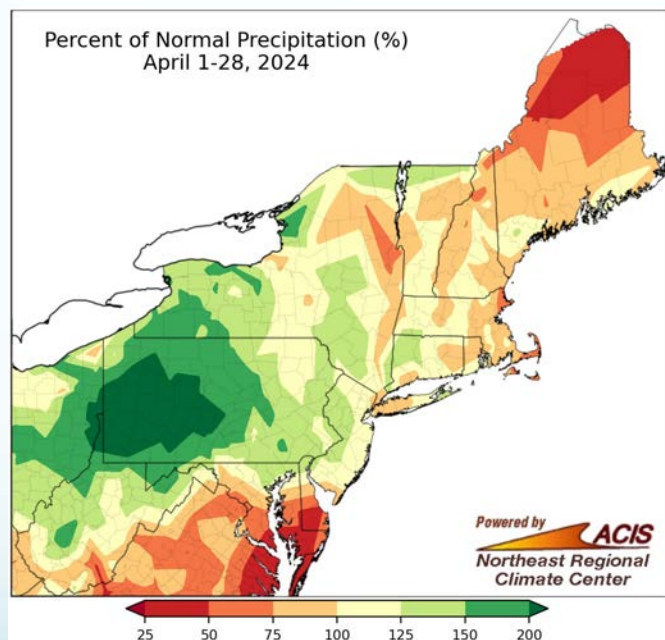
Monthly & 3-Month Outlooks



Summary

April-to-date conditions:

- Near- or above-normal temperatures for much of the region
- Precipitation varied – dry in far northern/southern spots but wet interior areas
- Below-normal snowfall for many; above-normal for northern New England



Drought:

- Moderate drought erased from region for the first time since spring 2023
- Abnormal dryness persists in western New York and on Nantucket

Outlooks:

- Short-term: above-normal precipitation for both time periods; near- or above-normal temperatures for both time periods
- May and May-July: above-normal precipitation for southern areas and above-normal temperatures for all



Contact Information

- nrcc@cornell.edu

Upcoming Webinars

- Thursday, May 30 at 9:30am EDT
 - National Water Model & Flood Inundation Mapping
- Thursday, June 27 at 9:30am EDT
 - Dept. of Transportation Resiliency Projects
- Tuesday, July 30 at 9:30am EDT
 - National Integrated Heat Health Information System Projects
- Thursday, August 29 at 9:30am EDT
 - Hurricane Outlook and Season Update



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