

April Conditions & Northeast DEWS Discussion

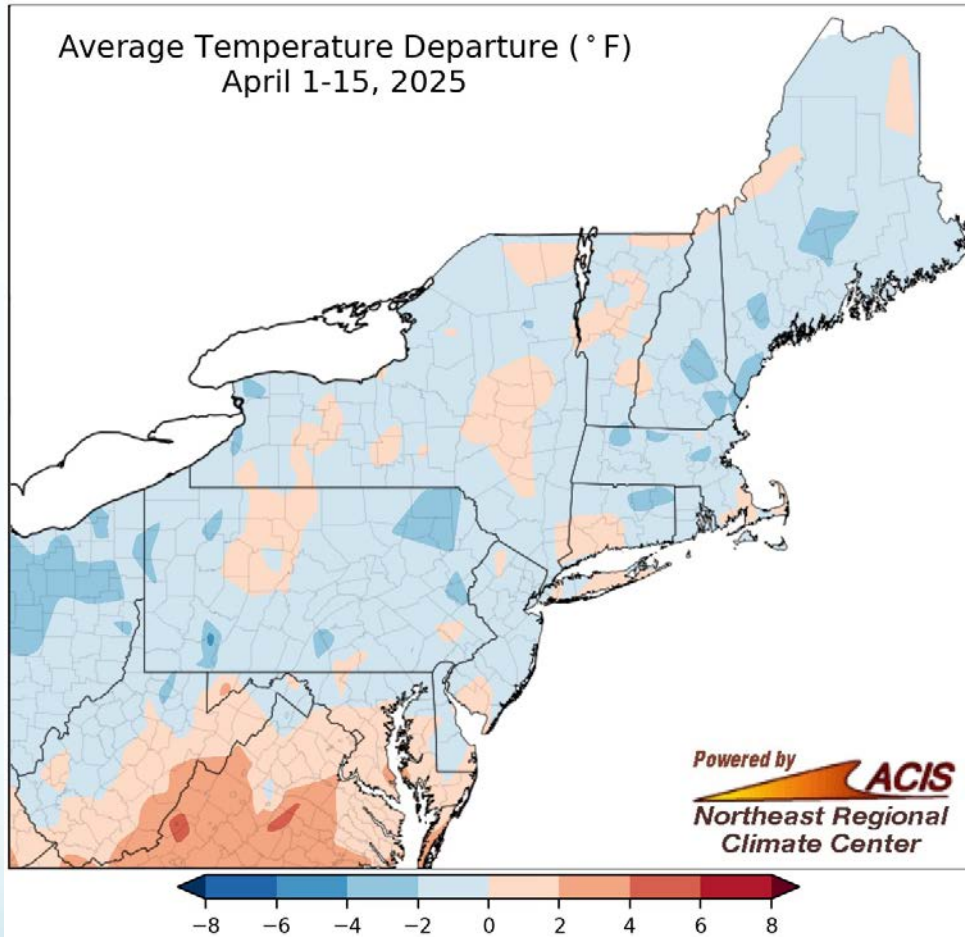
By: Samantha Borisoff, Climatologist
Northeast Regional Climate Center



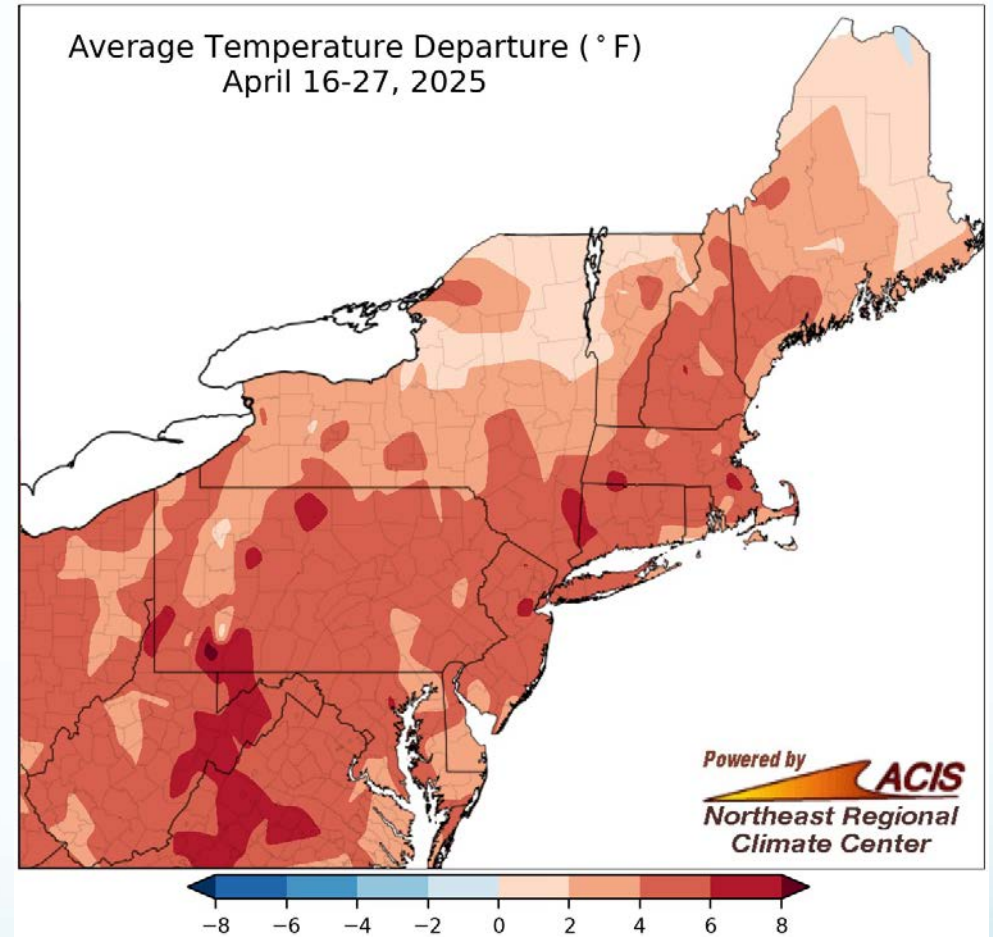
Northeast Regional
Climate Center



April Temperatures



First half of April – mostly
cooler than normal

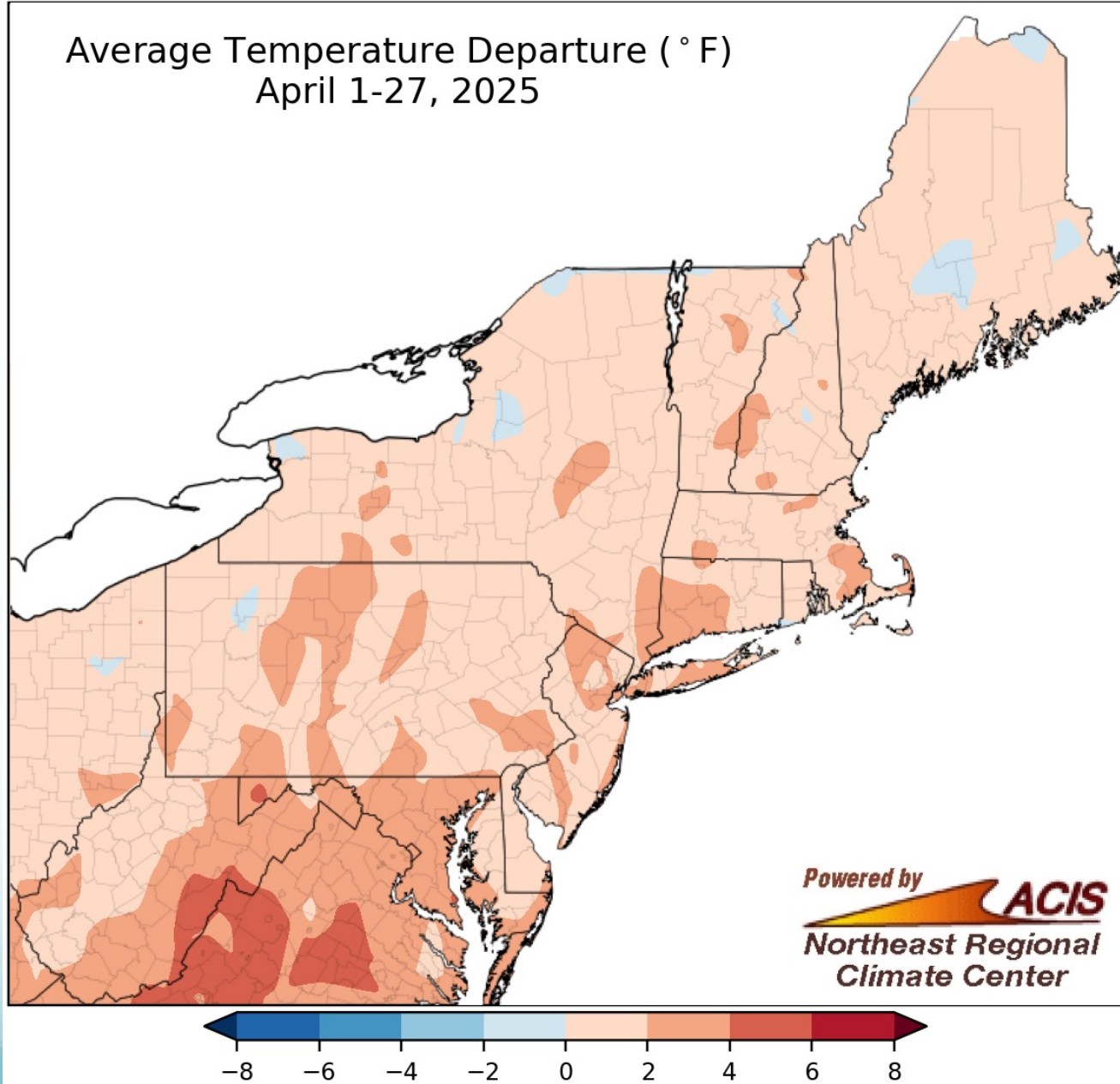


Second half of April – mostly
warmer than normal



April Temperatures

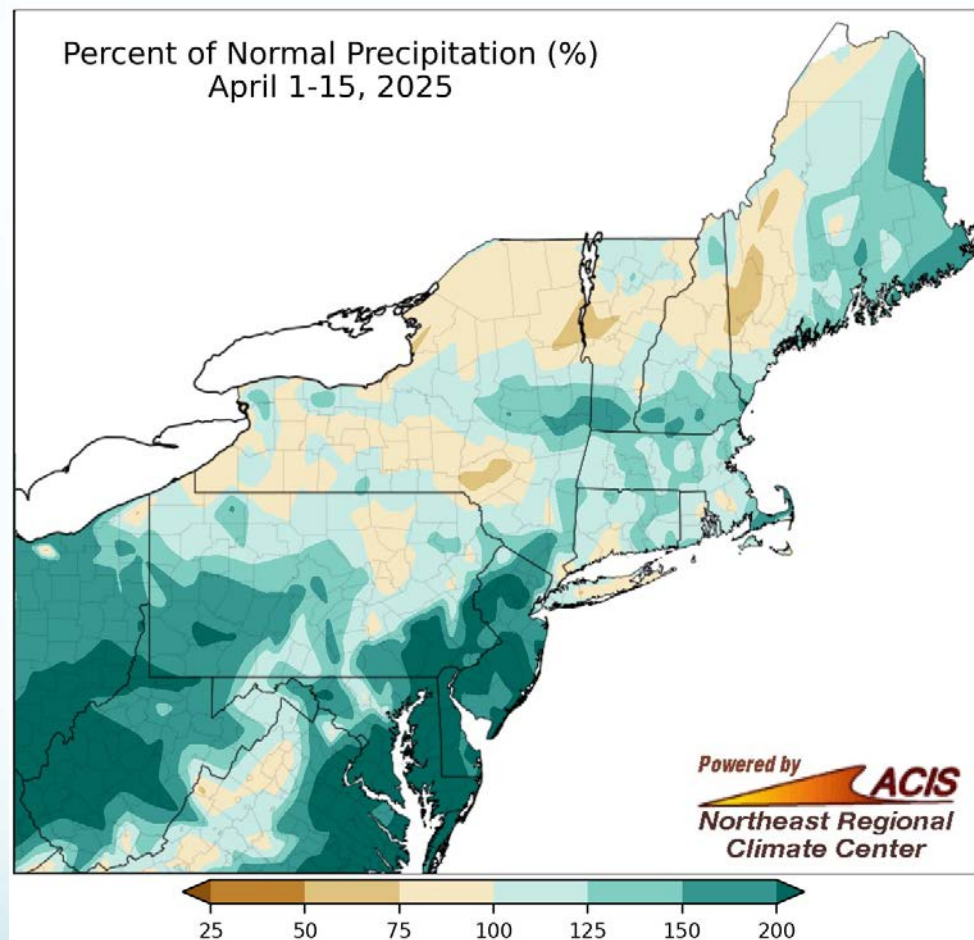
Average Temperature Departure (°F)
April 1-27, 2025



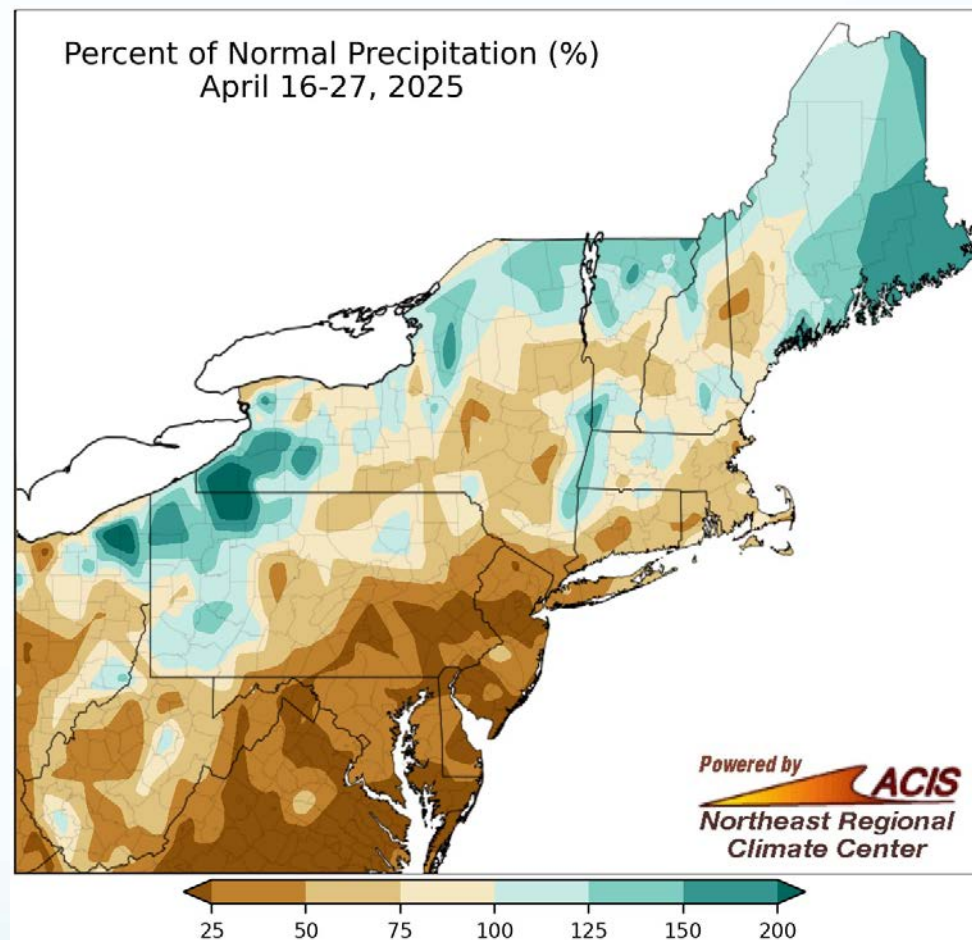
From 2°F below normal to 6°F above normal



April Precipitation



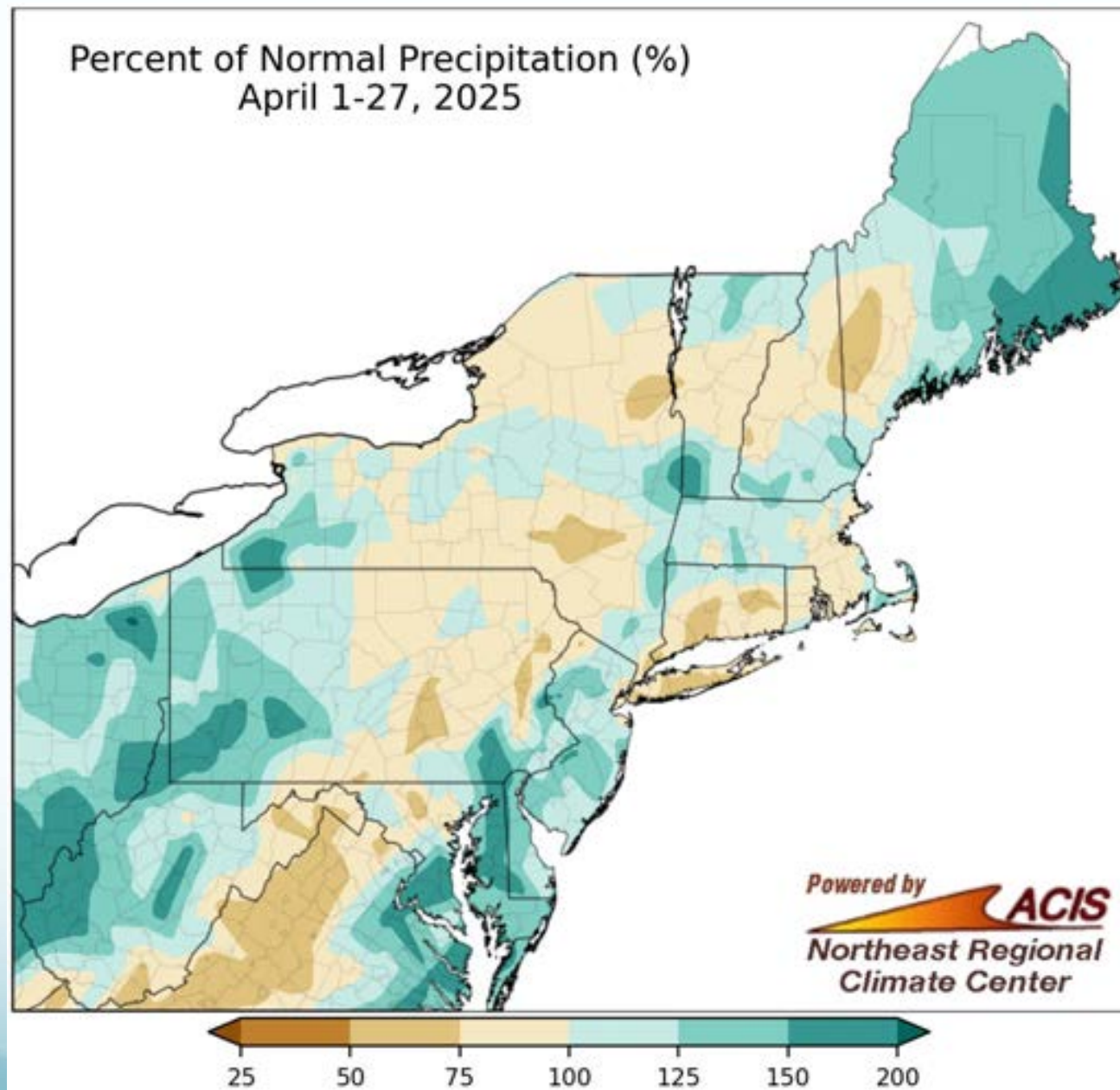
First half of April – wet in
the Mid-Atlantic



Second half of April – much
drier for most of the Mid-Atlantic



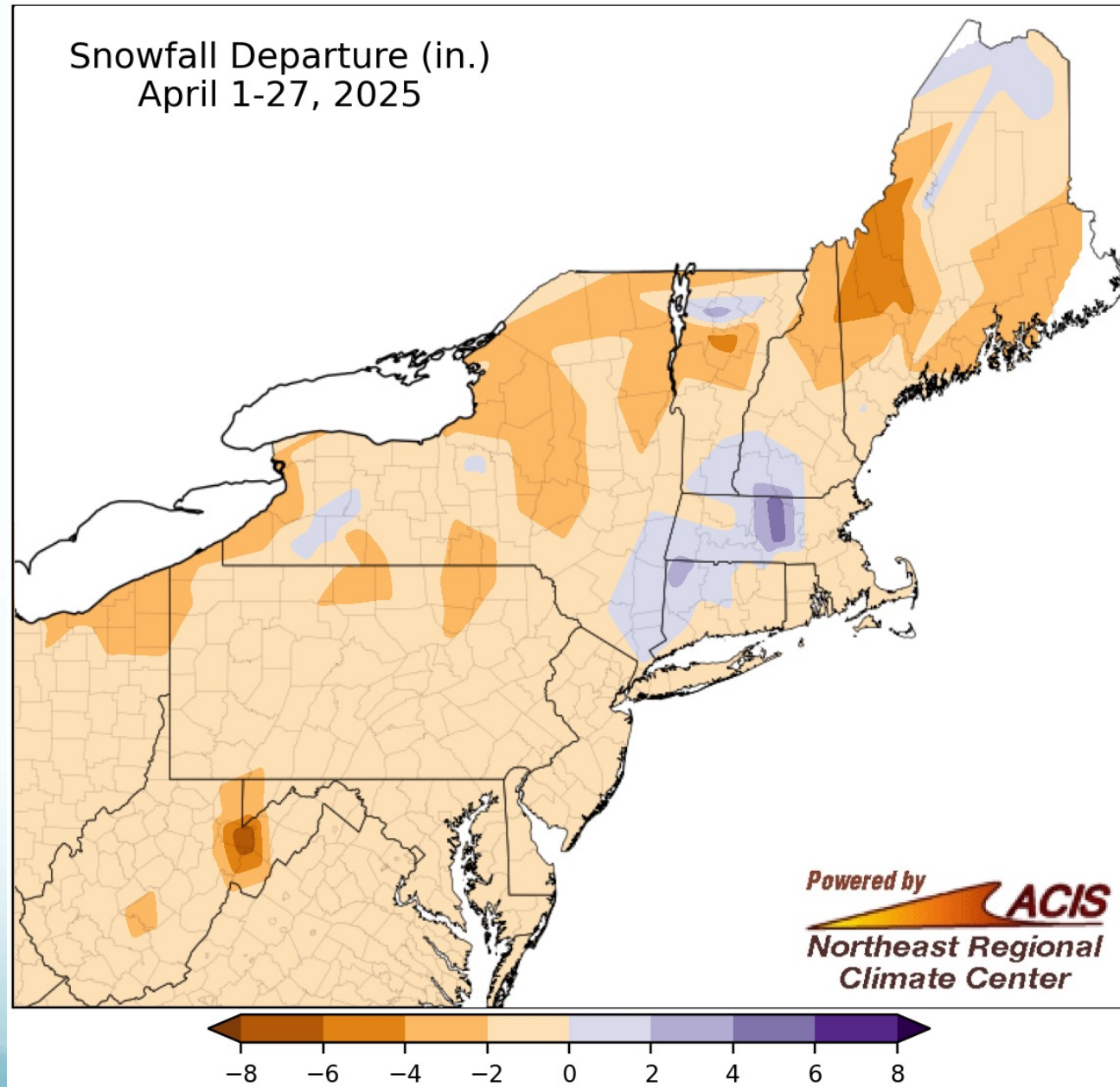
April Precipitation



From 50% of normal to 200% of normal

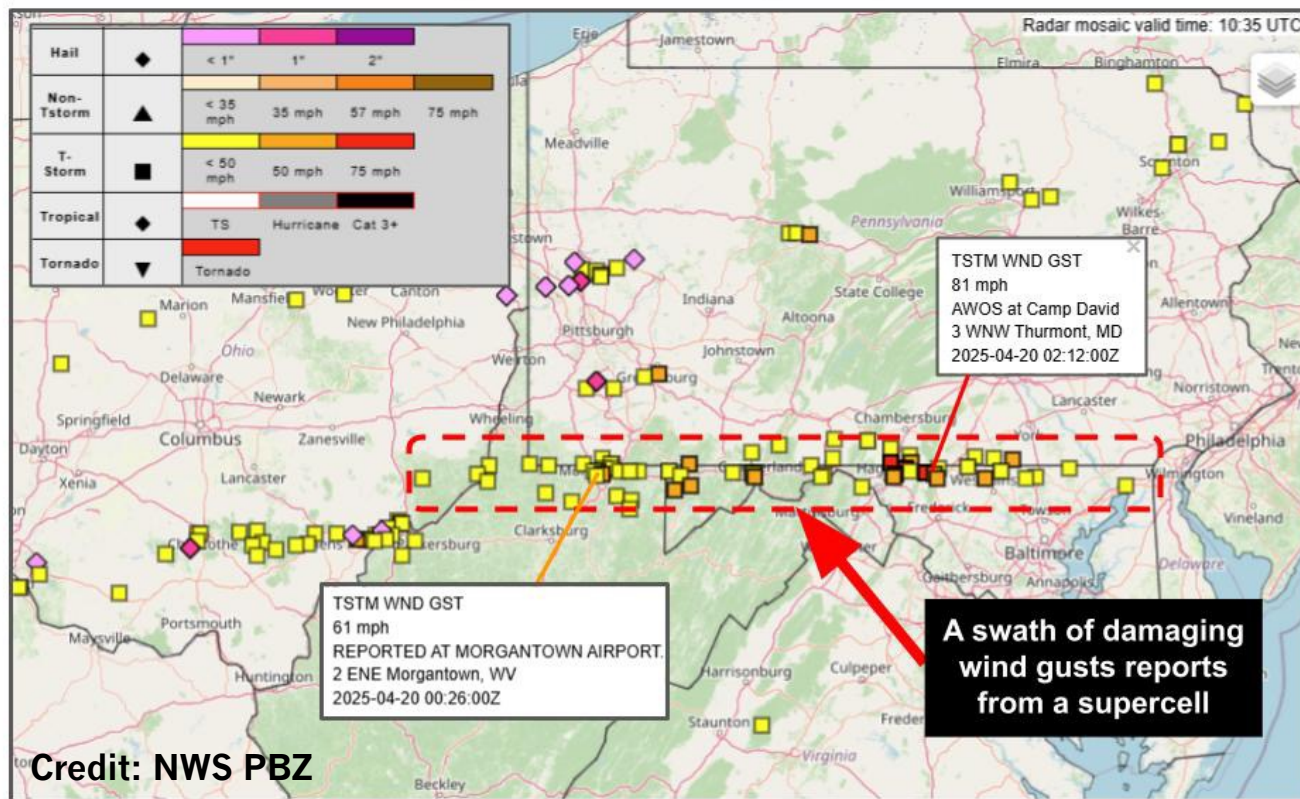


April Snowfall



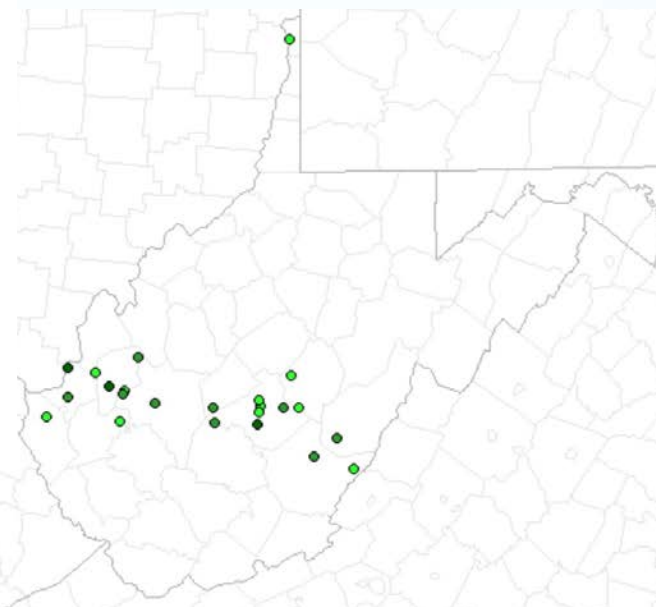
From 6" below normal to 6" above normal

Local Storm Reports Across the Region: April 19, 2025



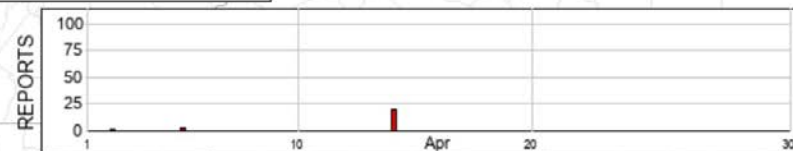
Credit: NWS PBZ

April Severe



Storm Reports Legend

Severe Hail.....	23
● Hail 1.00-1.24 in.....	11
● Hail 1.25-1.99 in.....	9
● Hail 2.00+ in.....	3



Preliminary Severe Weather Report Database

Storm Prediction Center
Norman, Oklahoma

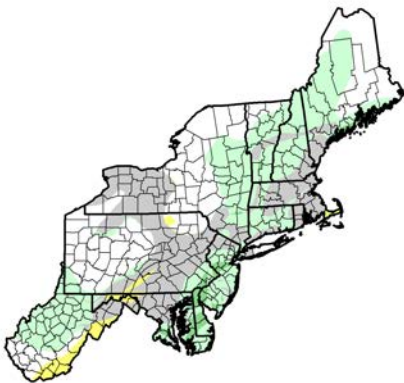
WV APR 2025 - Severe Hail Reports

01 Apr, 2025 - 01 May, 2025

Updated: 0409 UTC 04/28/2025

Drought Monitor

U.S. Drought Monitor Class Change - Northeast Climate Region
4 Week



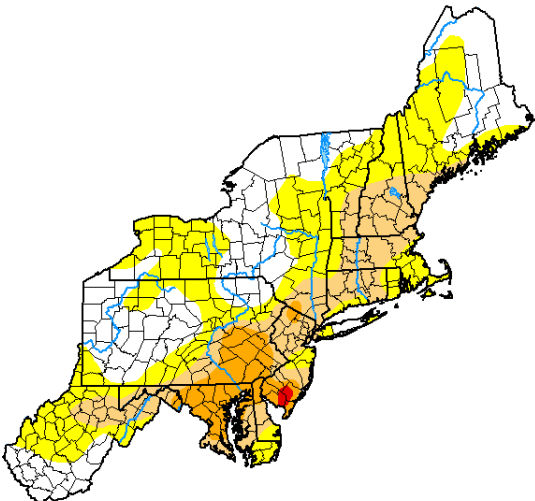
April 22, 2025
compared to
March 25, 2025

droughtmonitor.unl.edu



U.S. Drought Monitor Northeast

March 25, 2025
(Released Thursday, Mar. 27, 2025)
Valid 8 a.m. EDT



Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	34.48	38.44	19.66	7.15	0.27	0.00
Last Week 03-18-2025	33.98	40.64	18.47	6.40	0.51	0.00
3 Months Ago 12-24-2024	23.50	33.13	29.16	12.13	2.07	0.00
Start of Calendar Year 01-01-2025	33.83	32.27	24.14	8.39	1.37	0.00
Start of Water Year 10-01-2024	45.94	34.77	9.37	4.97	4.27	0.67
One Year Ago 03-26-2024	97.54	1.98	0.49	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>

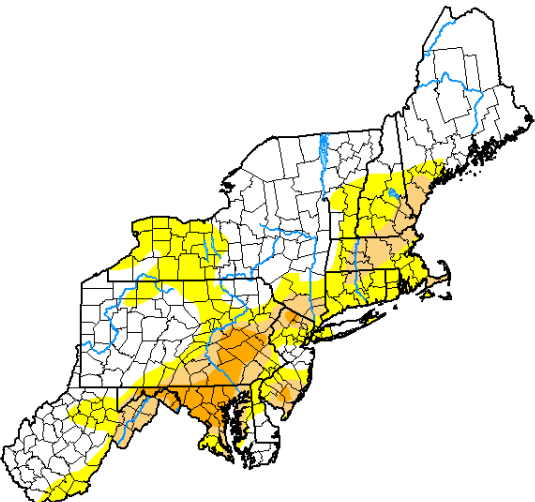
Author:
Brad Rippey
U.S. Department of Agriculture



droughtmonitor.unl.edu

U.S. Drought Monitor Northeast

April 22, 2025
(Released Thursday, Apr. 24, 2025)
Valid 8 a.m. EDT



Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	57.25	26.15	11.49	5.10	0.00	0.00
Last Week 04-15-2025	57.25	25.97	11.67	5.10	0.00	0.00
3 Months Ago 01-21-2025	33.83	32.58	23.75	8.49	1.37	0.00
Start of Calendar Year 01-01-2025	33.83	32.27	24.14	8.39	1.37	0.00
Start of Water Year 10-01-2024	45.94	34.77	9.37	4.97	4.27	0.67
One Year Ago 04-23-2024	98.11	1.89	0.00	0.00	0.00	0.00

Intensity:
None D2 Severe Drought
D0 Abnormally Dry D3 Extreme Drought
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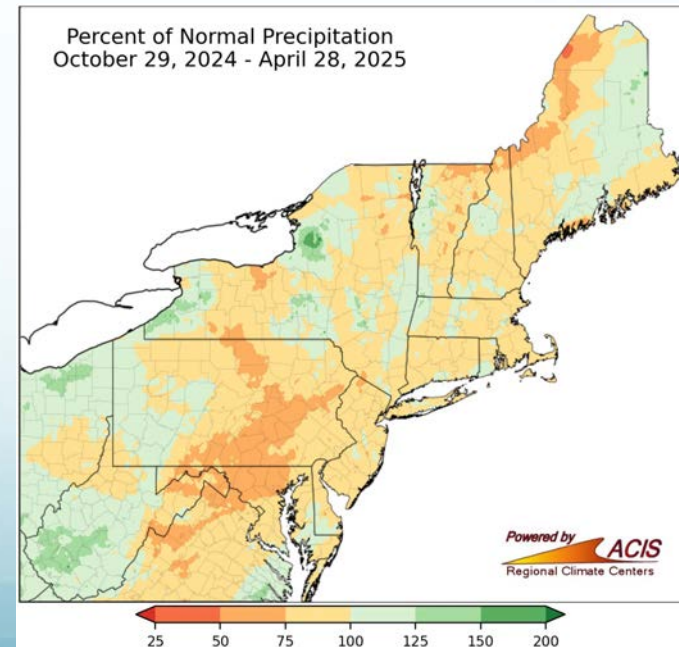
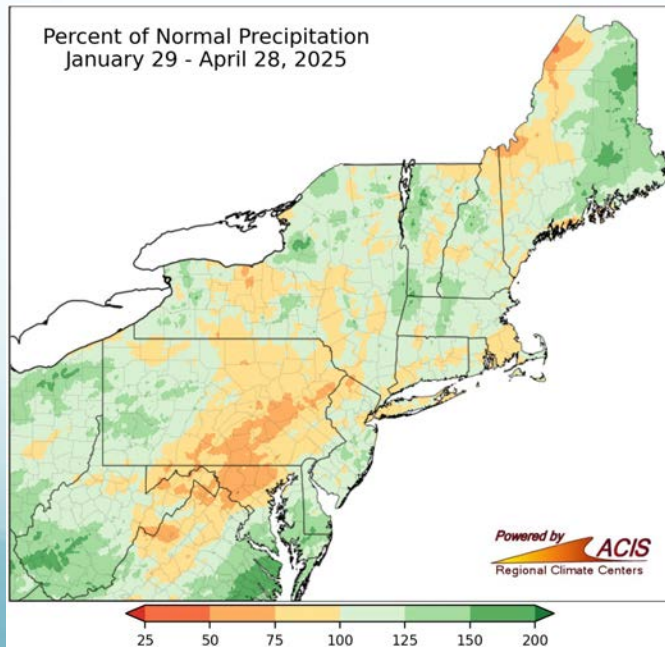
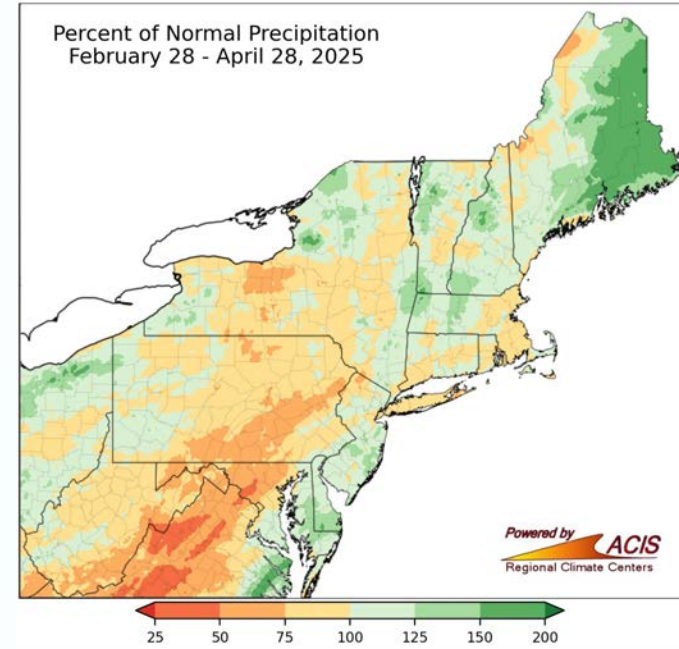
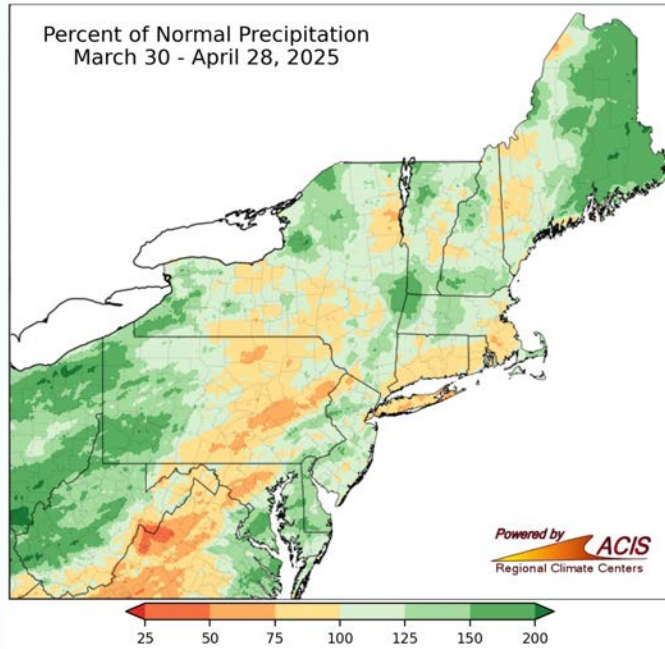
Author:
Richard Tinker
CPC/NOAA/NWS/NCEP



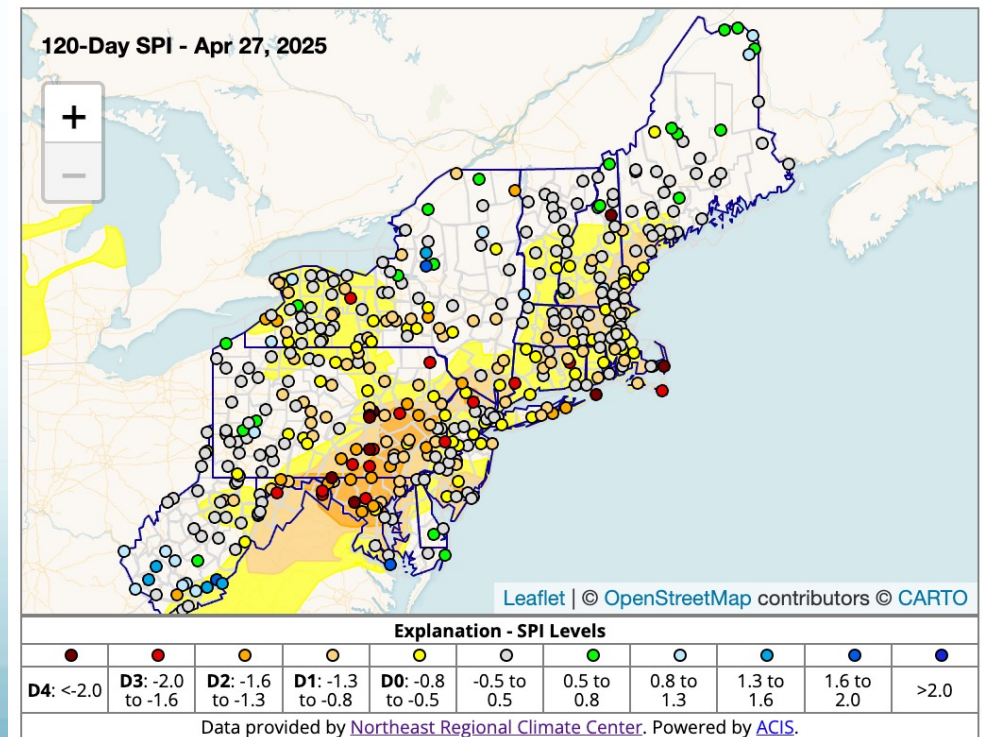
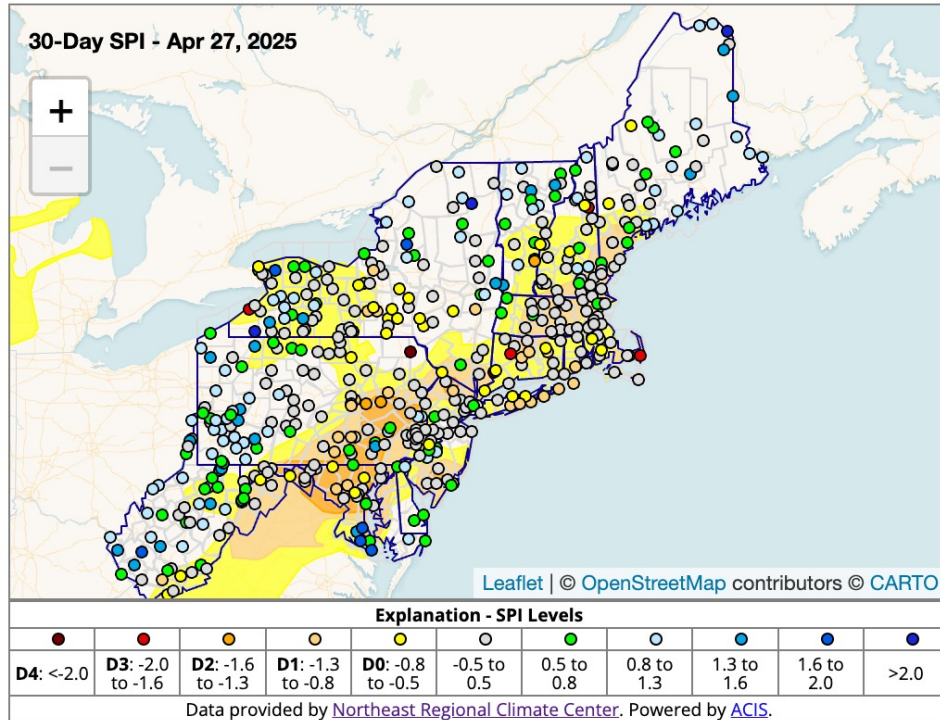
droughtmonitor.unl.edu



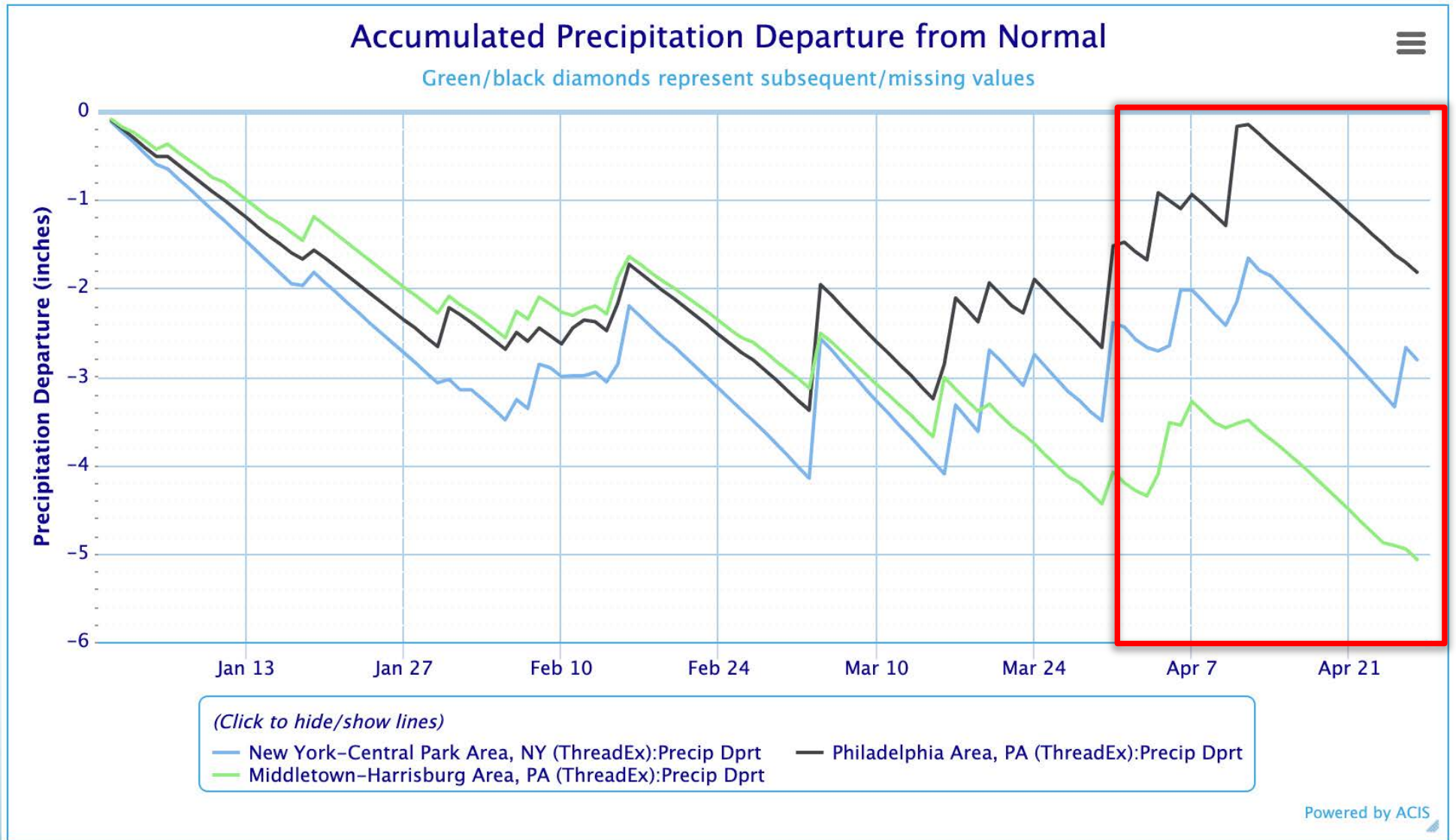
Precipitation



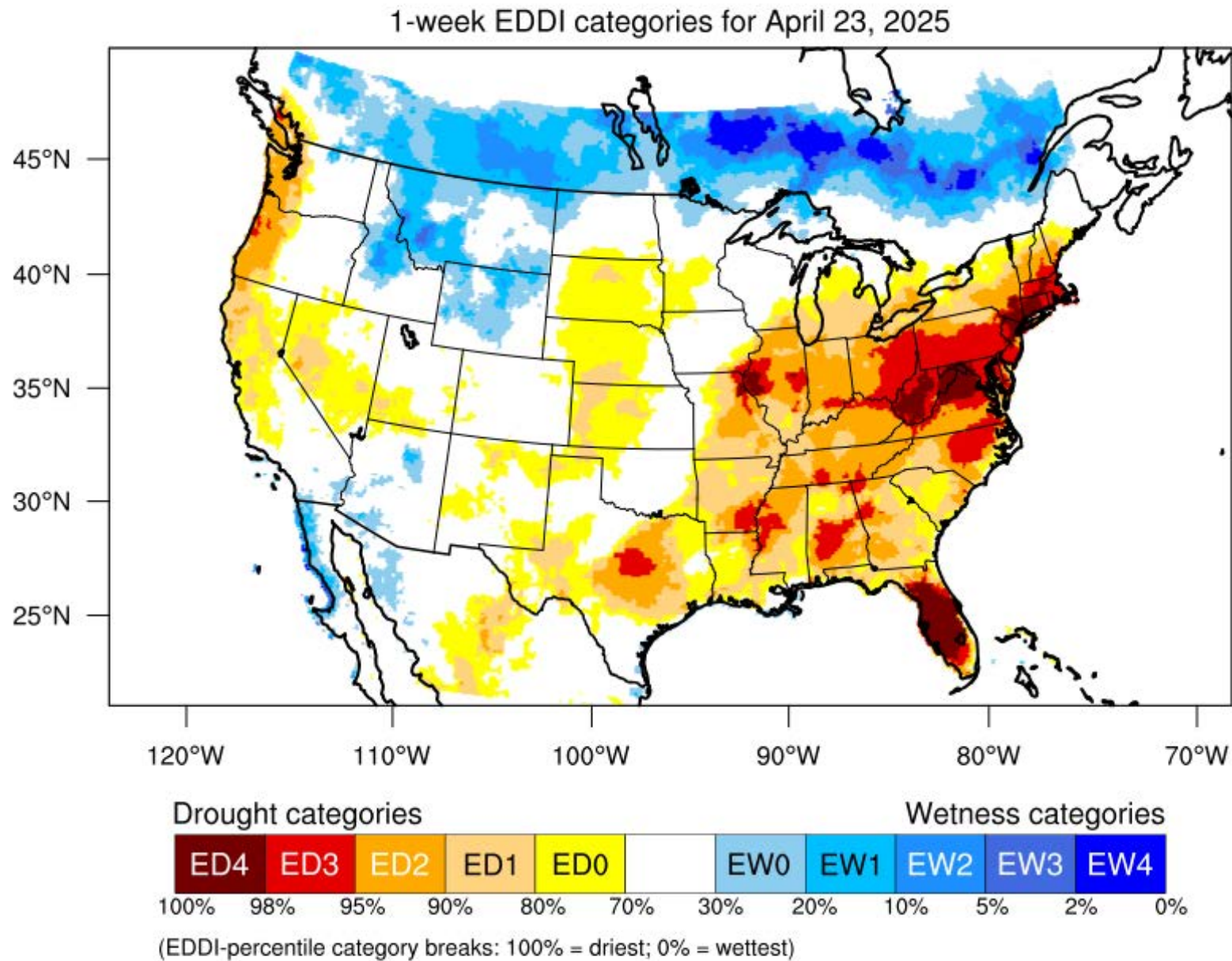
Standardized Precipitation Index



Precipitation



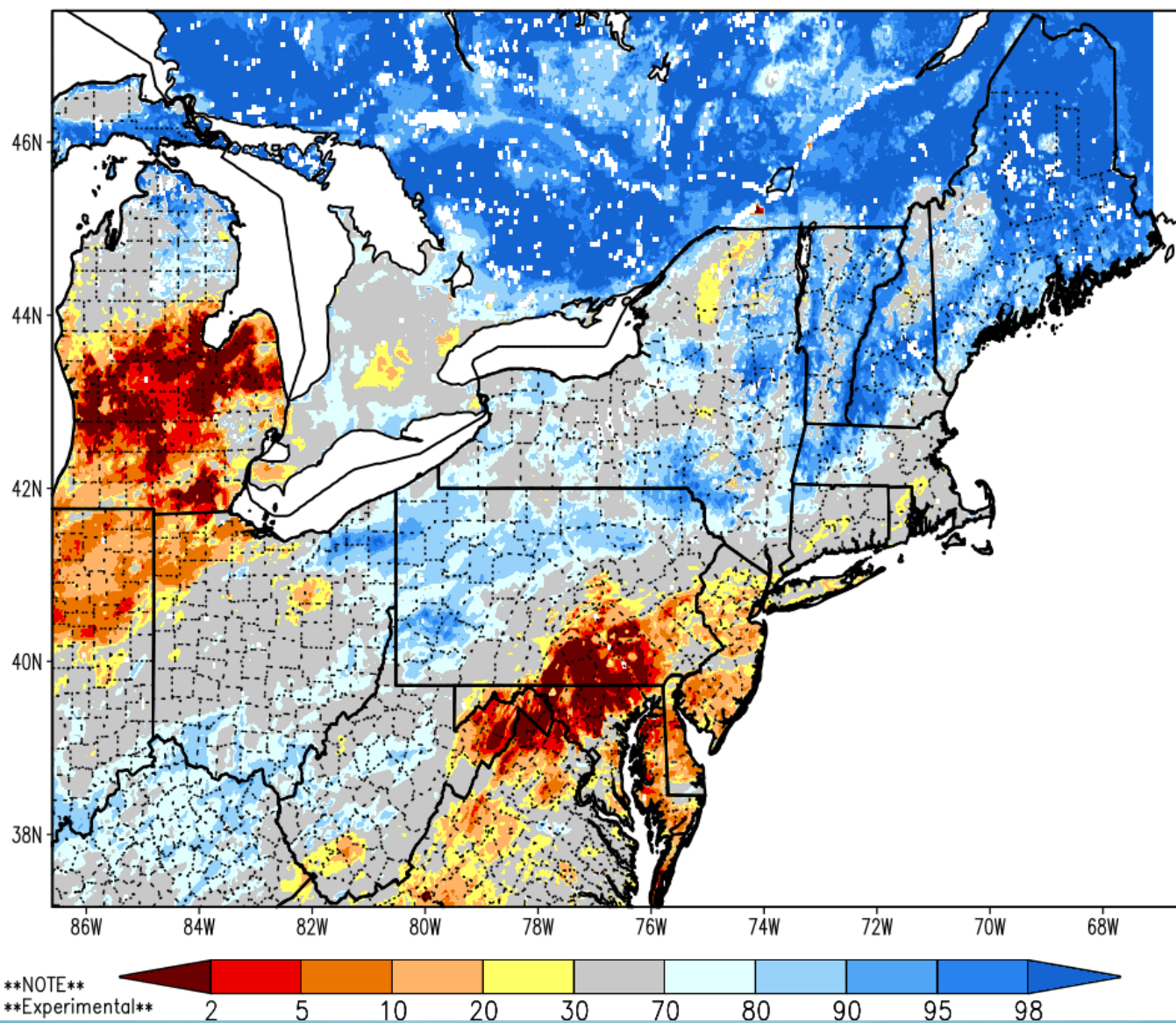
Evap. Demand Drought Index



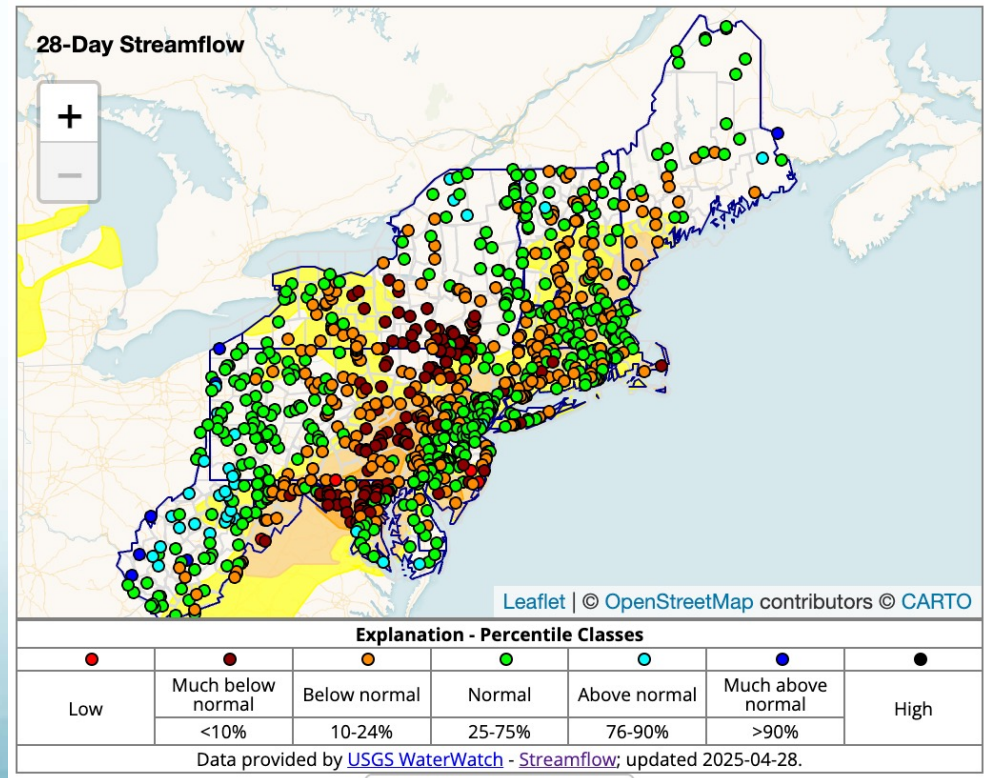
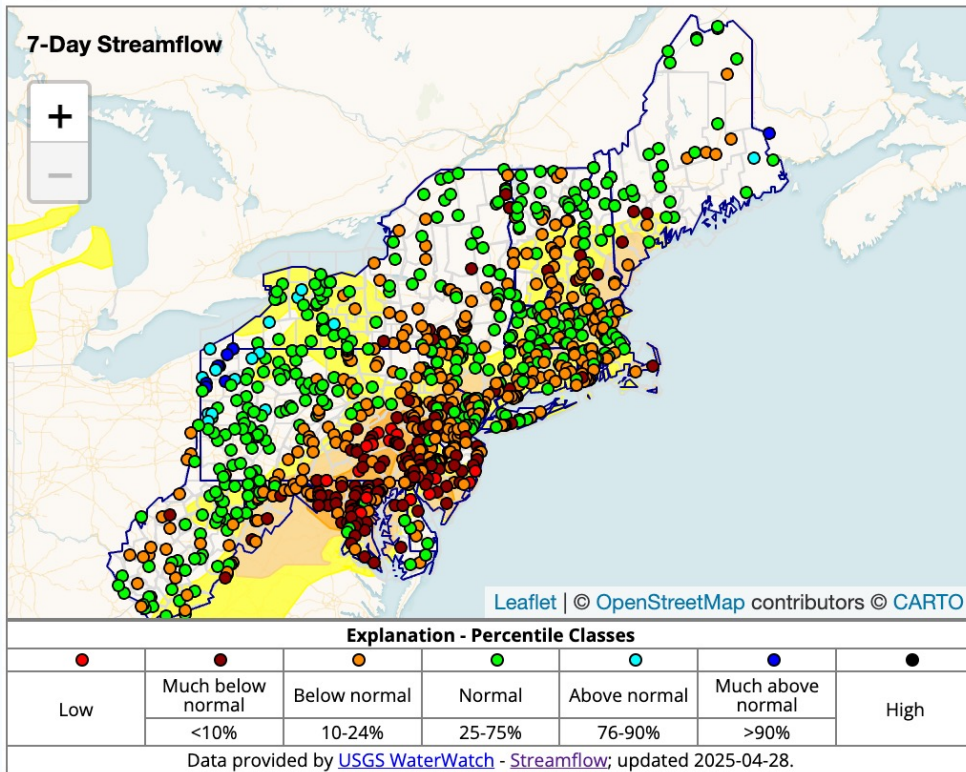
Generated by NOAA/ESRL/Physical Sciences Laboratory

Soil Moisture

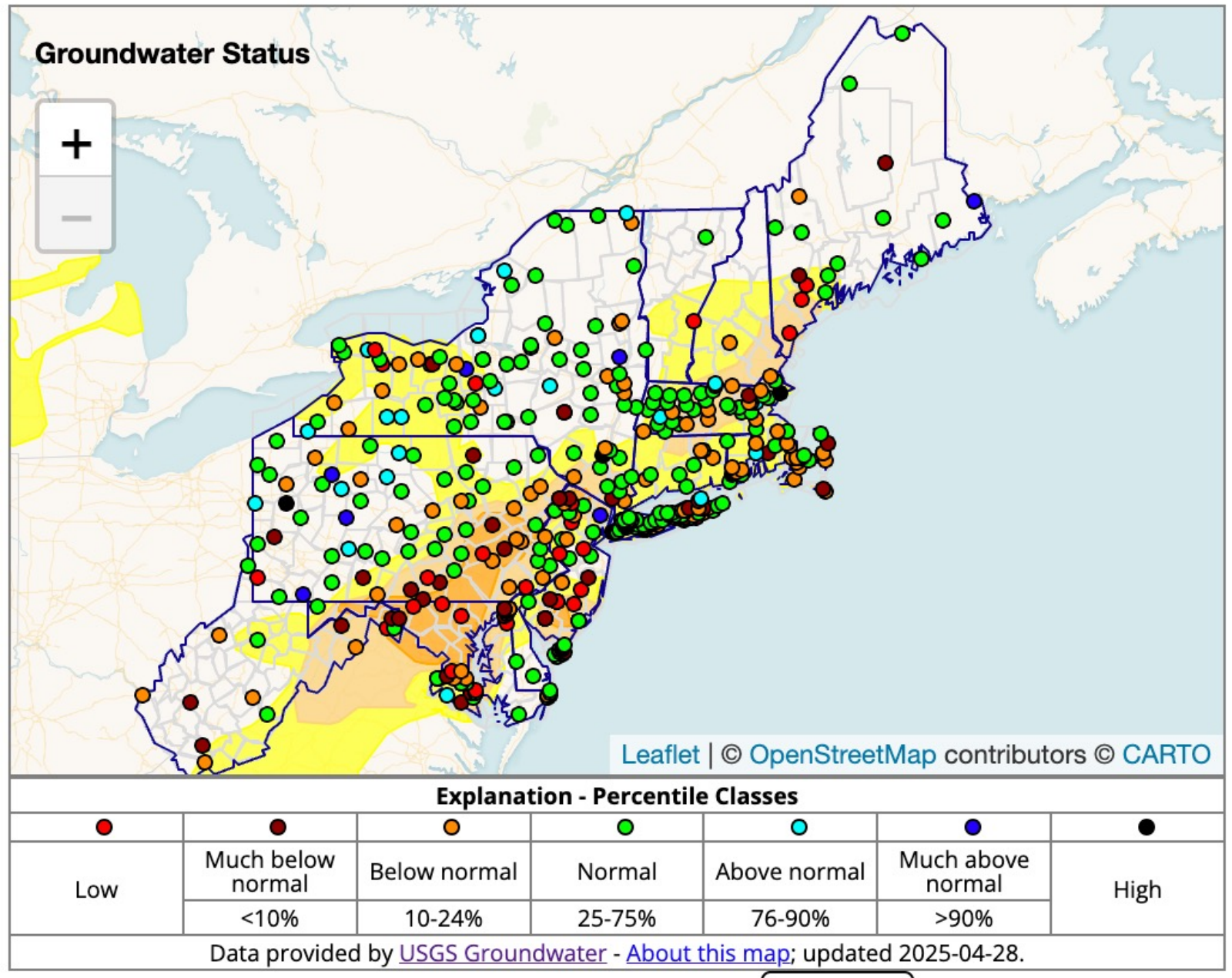
SPoRT-LIS 0–100 cm Soil Moisture percentile valid 29 Apr 2025



Streamflow

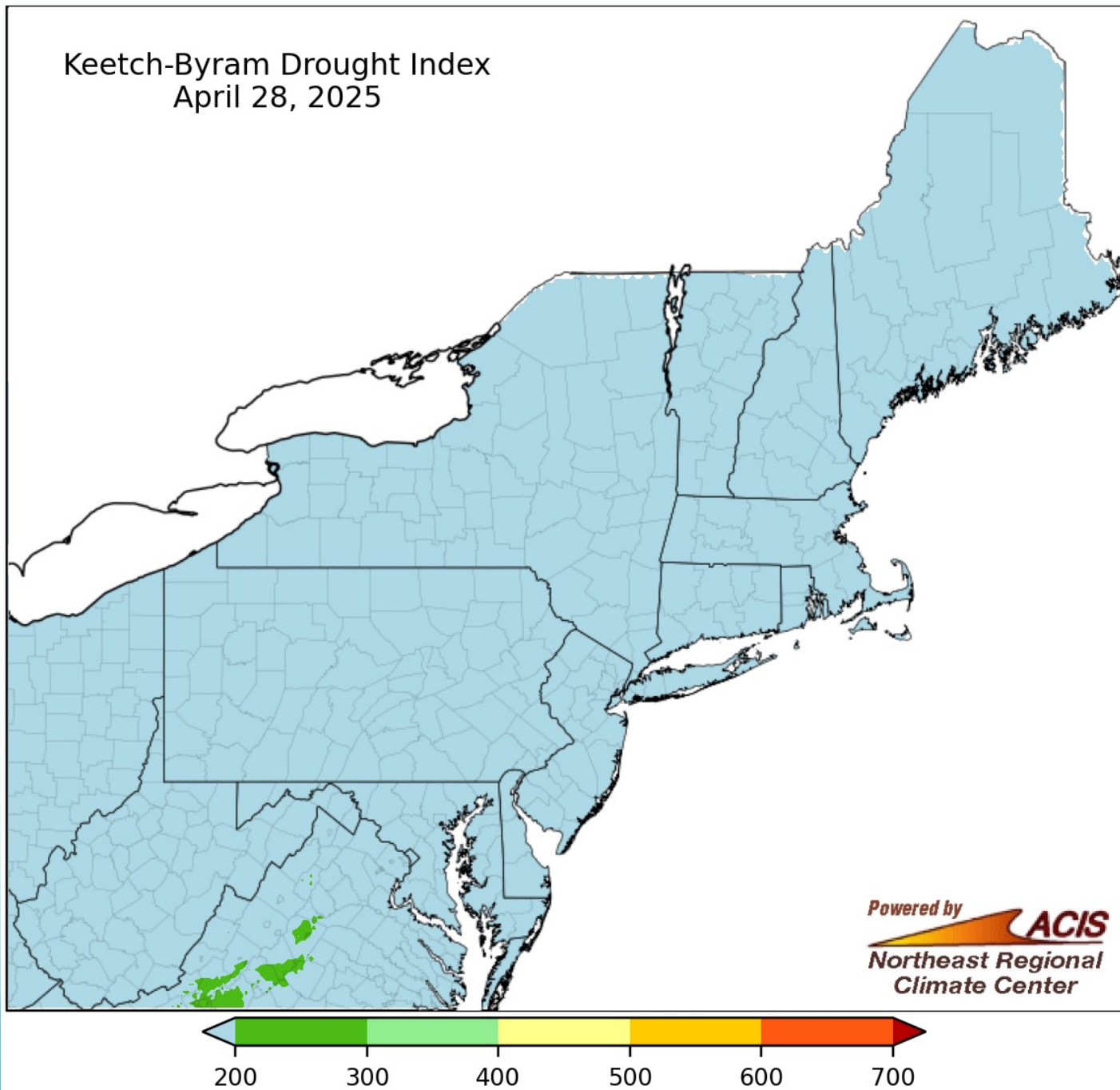


Groundwater

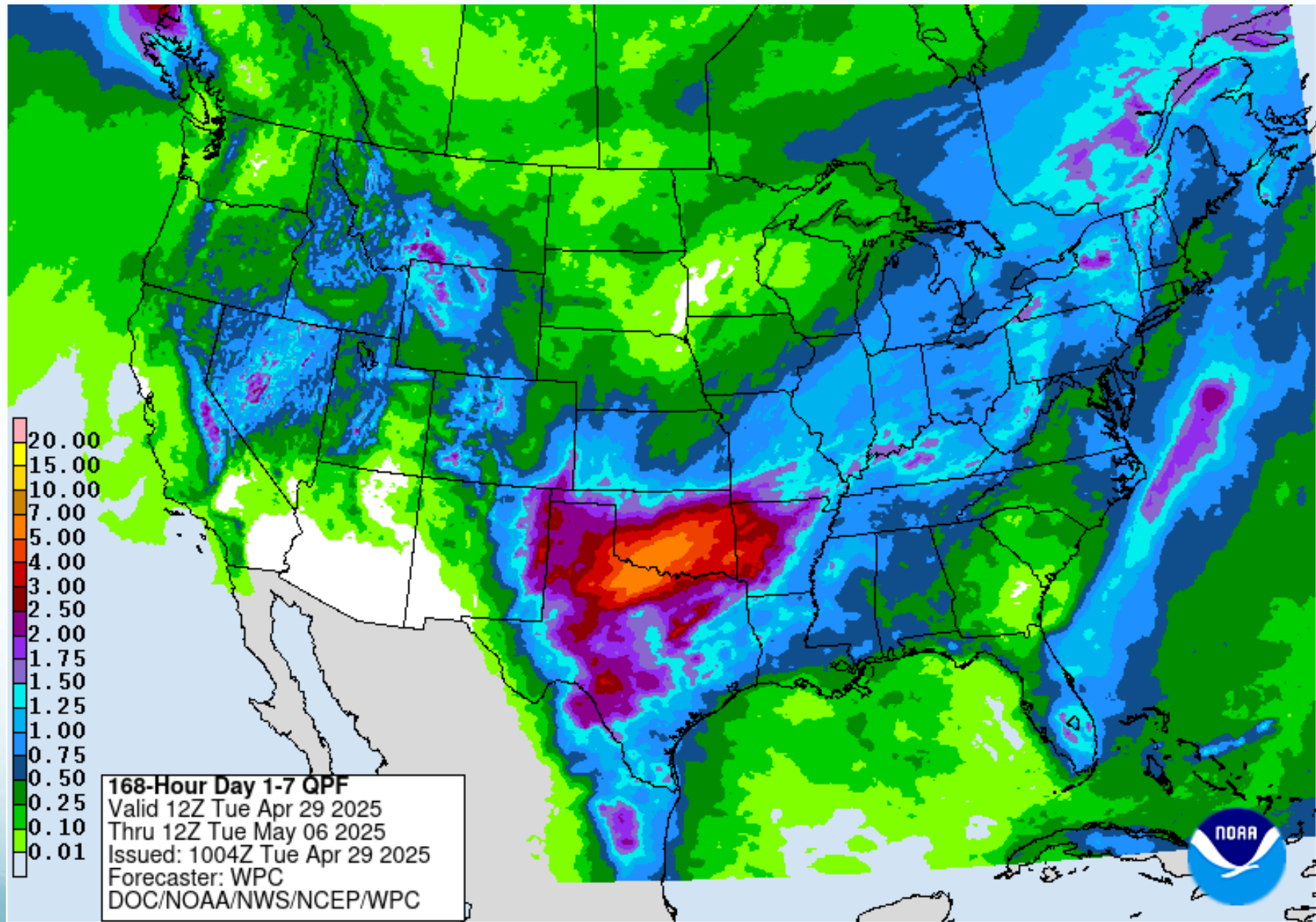


Wildfire Risk

Keetch-Byram Drought Index
April 28, 2025



Precipitation Forecast



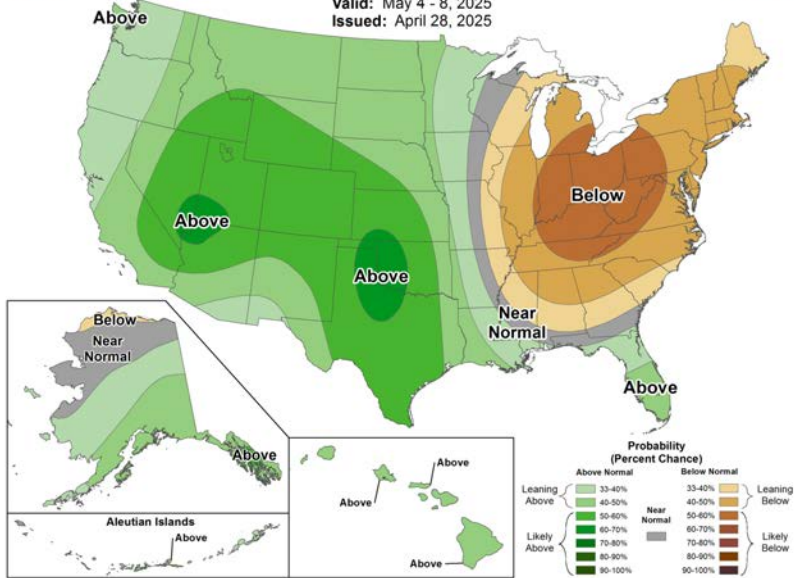
“Normal” precipitation for this period is about 0.50” to 1.00”

Short-term Outlooks



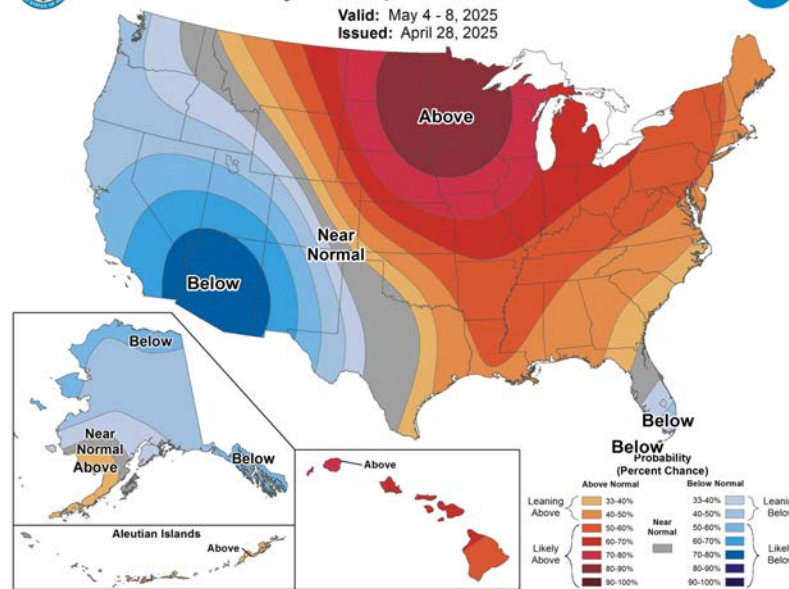
6-10 Day Precipitation Outlook

Valid: May 4 - 8, 2025
Issued: April 28, 2025



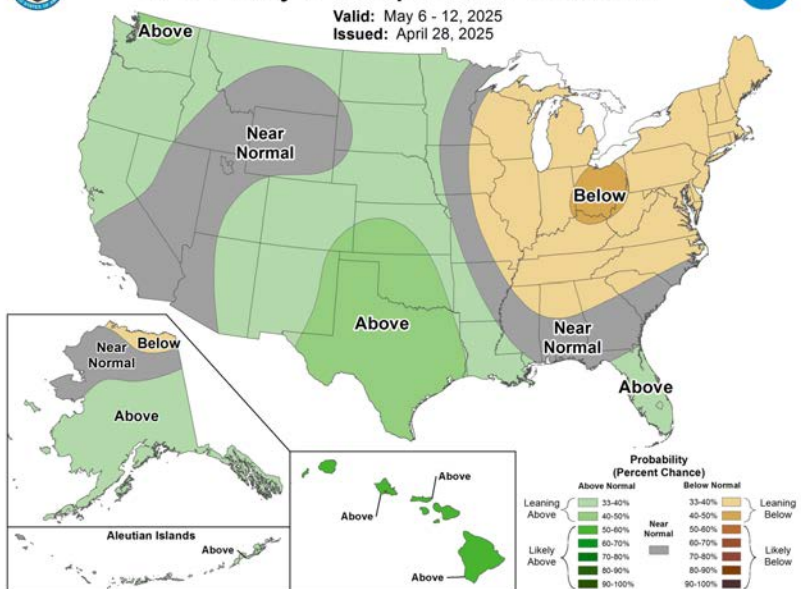
6-10 Day Temperature Outlook

Valid: May 4 - 8, 2025
Issued: April 28, 2025



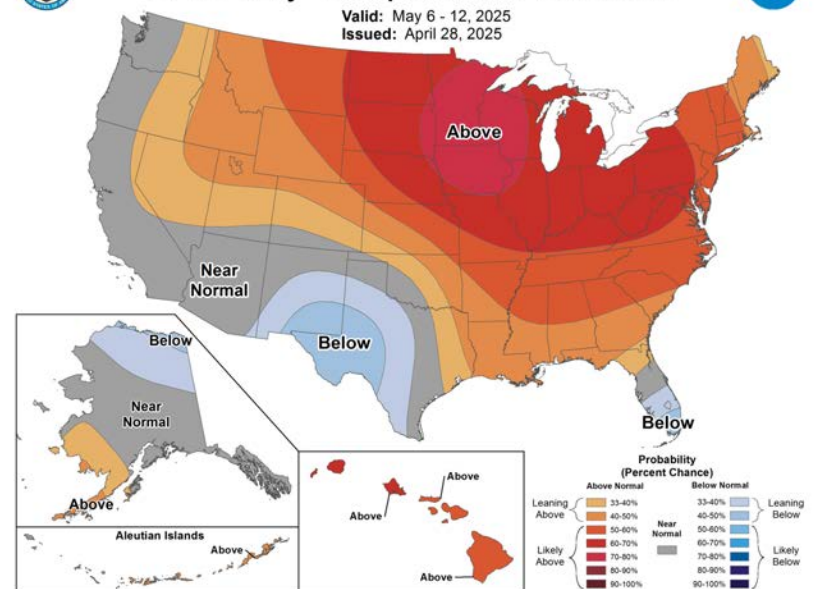
8-14 Day Precipitation Outlook

Valid: May 6 - 12, 2025
Issued: April 28, 2025

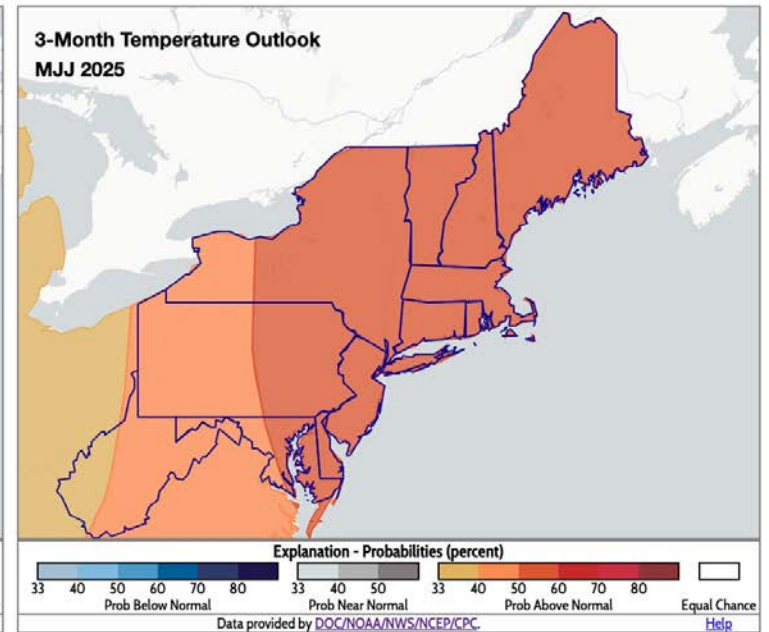
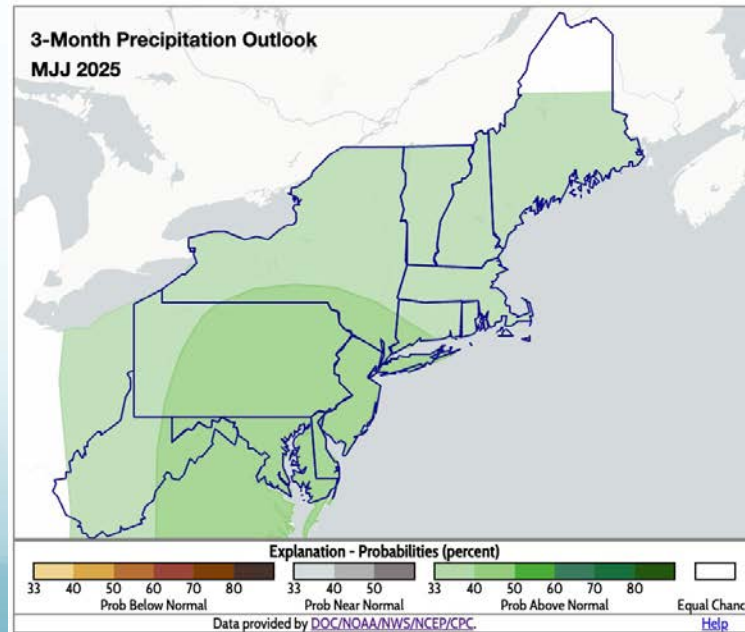
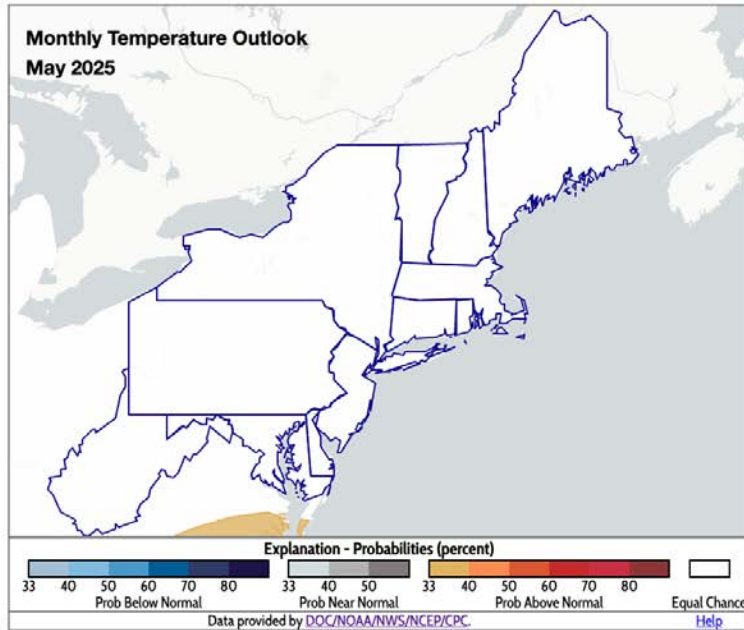
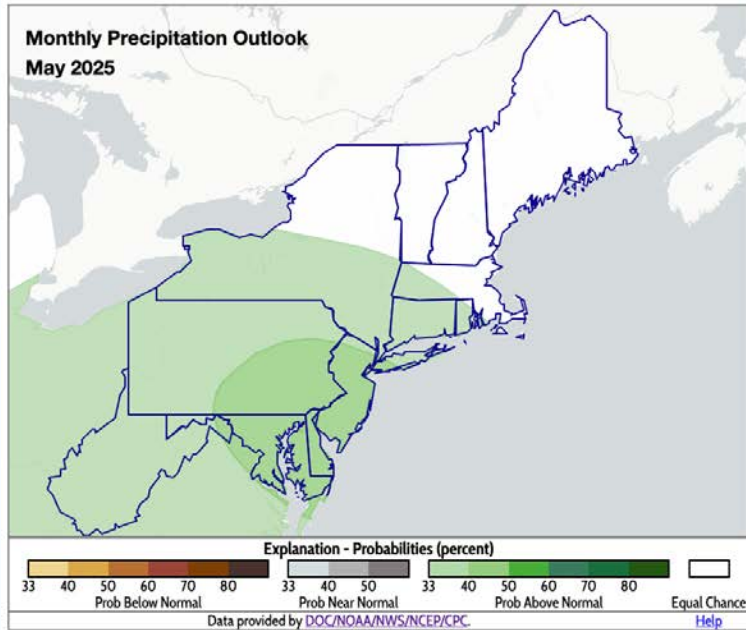


8-14 Day Temperature Outlook

Valid: May 6 - 12, 2025
Issued: April 28, 2025



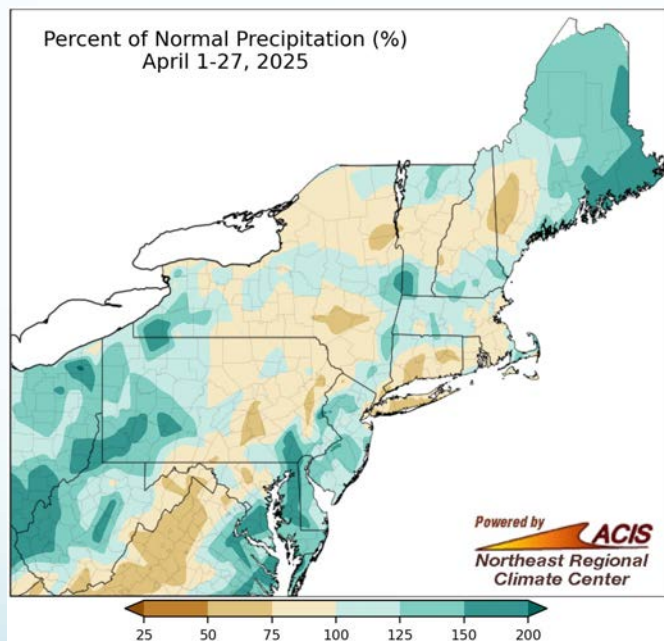
Monthly & 3-Month Outlooks



Summary

April-to-date conditions:

- Cool start but warm end to April = above-normal temperatures for most areas
- Wet start but dry end to April = a range of precipitation amounts
- Below-normal snowfall for a majority of locations



Drought:

- Improvement in areas closer to the coast, driven by wet first half of April
- Deterioration or status quo for central parts of the Mid-Atlantic
- Below-normal or lower streamflow and/or groundwater levels observed

Outlooks:

- Short term: leaning dry and warm – possible deterioration?
- May and May-July: tilt toward wet; equal chances for May temps but leaning warmer for May-July
- Entering time of year where more precipitation is needed to offset increasing evapotranspiration rates



Contact Information

- nrcc@cornell.edu

Upcoming Webinars

Switching to Zoom...more information to come!

- Thursday, May 29 at 9:30am EDT
 - TBD
- Thursday, June 26 at 9:30am EDT
 - Heat Outlook and Heat.gov Overview
- Thursday, July 31 at 9:30am EDT
 - TBD



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