

May Conditions & Northeast DEWS Discussion

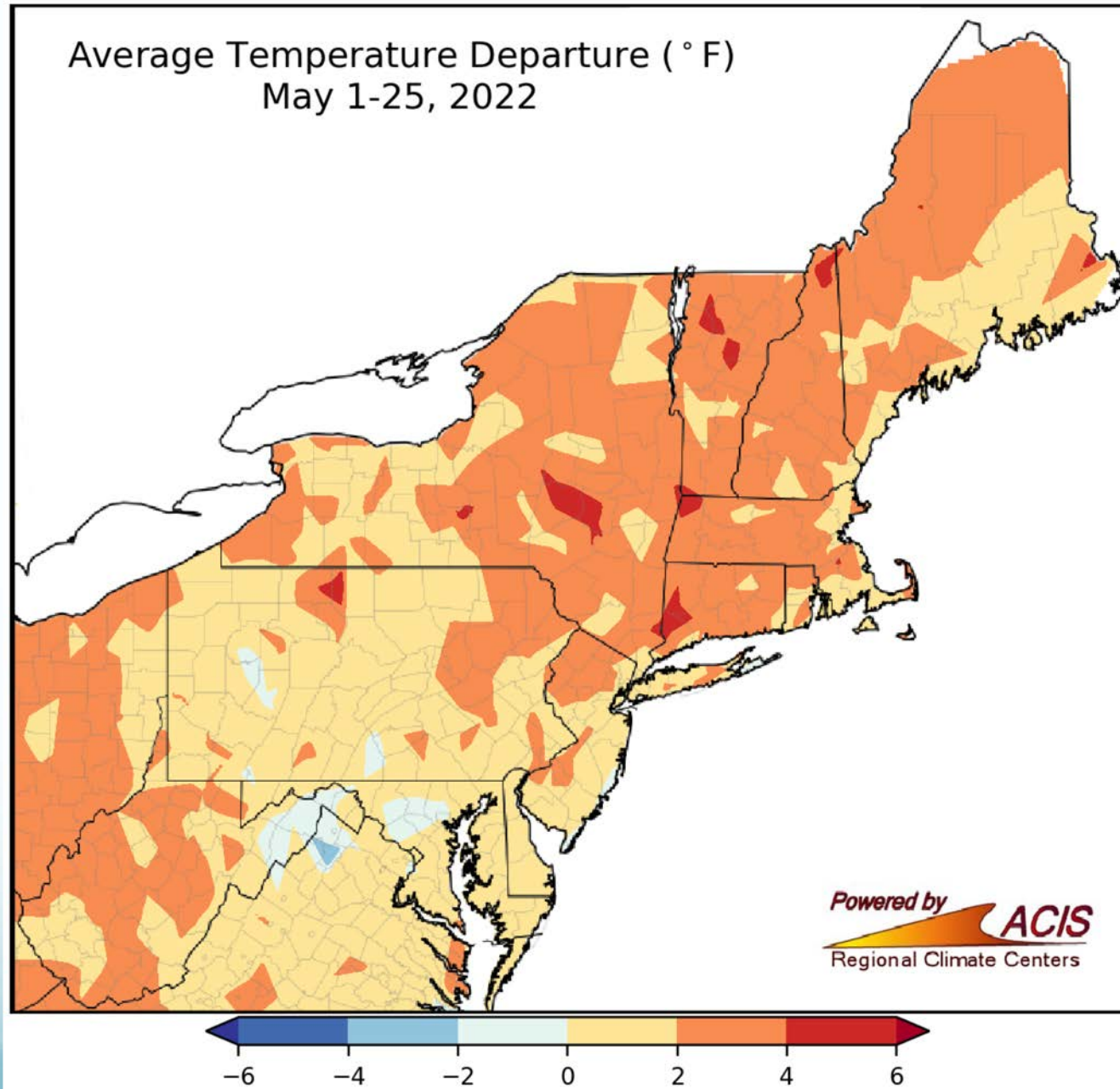
By: Samantha Borisoff, Climatologist
Northeast Regional Climate Center



Northeast Regional
Climate Center

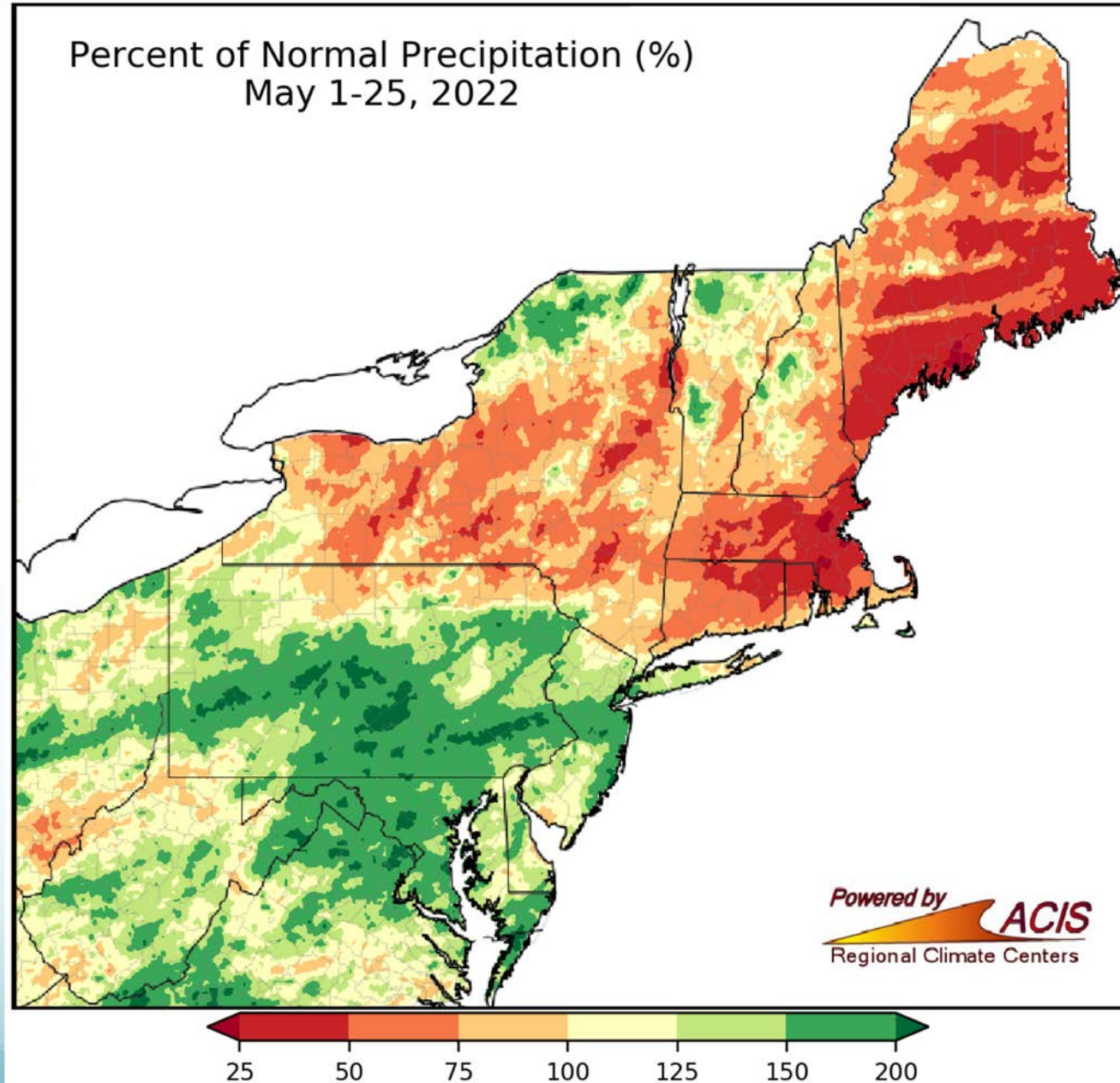


May Temperatures



From near normal to 4°F above normal for most areas

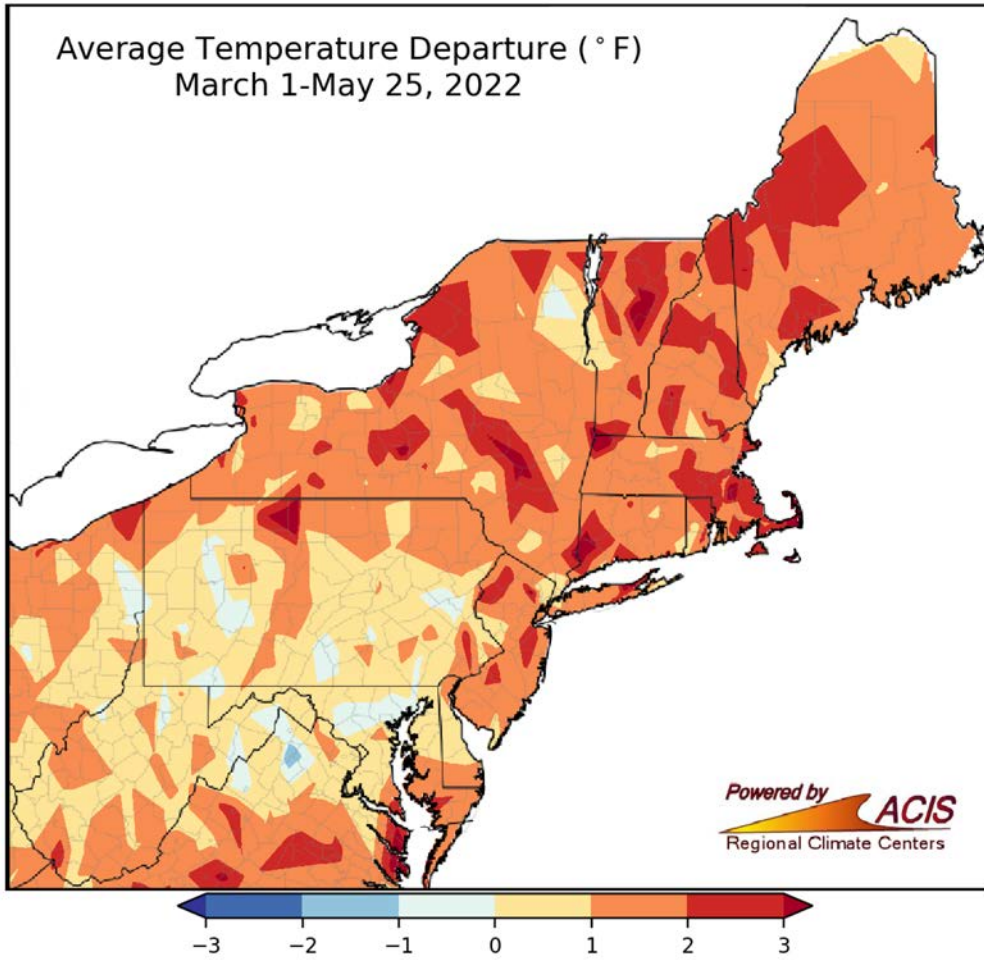
May Precipitation



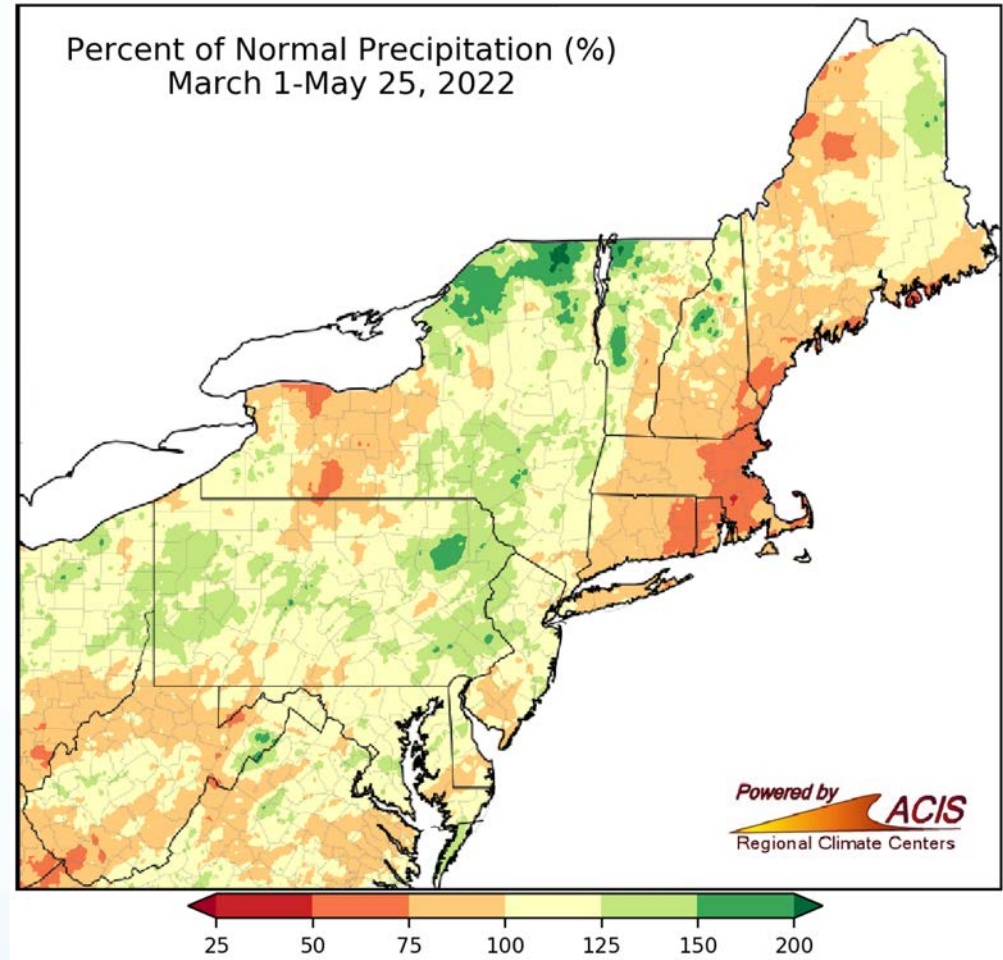
From 25% of normal to more than 200% of normal



Spring Conditions



From near normal to
3°F above normal



From 50% of normal to
200% of normal



Drought Resources

Northeast Drought Early Warning Update



May 20, 2022

Drought Early Warning Update for the Northeast

Pre-Drought Footprint Expands Raising Awareness of the Possible Return of Drought Conditions

Key Points

- Abnormally Dry (D0) conditions returned to portions of western New York and along the New England coast from Connecticut to Maine. Growing precipitation deficits since March were exacerbated by little rainfall so far this May.
- Moderate Drought (D1) held fast in northwest Maine.
- Abnormally dry (D0) conditions surrounding Maine's (D1) saw both improvement and degradation with spotty precipitation patterns during the last few weeks.
- Abnormally dry (D0) conditions remained in northern Vermont and small portions of northern New Hampshire.

Accumulated Precipitation Departure from Normal

Green/black diamonds represent subsequent/missing values

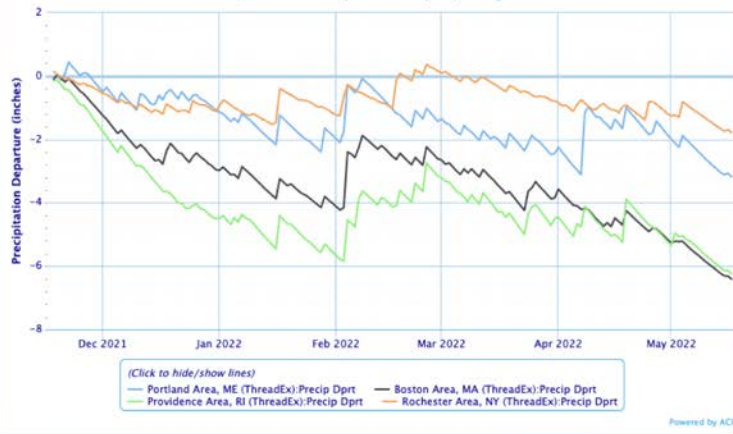


Figure 1: Departure from normal precipitation (inches) for Portland Area, ME (blue), Rochester Area, NY (orange), Boston Area, MA (black), and Providence Area, RI (green). Source: ACIS.

Northeast DEWS Dashboard

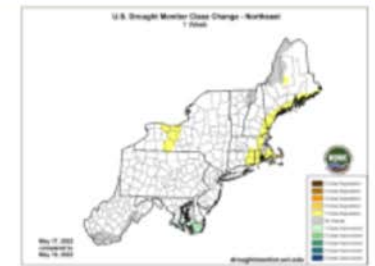
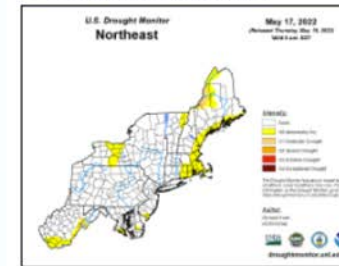


Click a state to zoom maps below
Return to Northeast

Drought Status Update

May 19, 2022 - New York and New England continued to miss out on the heaviest precipitation this week. With increasing precipitation deficits, declining soil moisture, and low streamflows, abnormal dryness expanded in coastal New England and central Maine and was introduced in western New York. The U.S. Drought Monitor released on May 19 showed 2% of the Northeast DEWS in moderate drought and 19% as abnormally dry compared to 2% and 6%, respectively, last week. [Drought Early Warning Update](#)

US Drought Monitor (updated weekly)

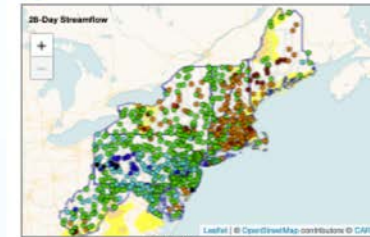


Last USDM Week (ending 2022-5-17) ACIS Precipitation Maps

Current ACIS Precipitation Maps

USGS Streamflow and Groundwater

Show USDM



Explanation	Percentile Classes					High
	Multi below normal	Below normal	Normal	Above normal	Multi above normal	
Low	<-15%	15-24%	25-75%	76-85%	>=86%	

Explanation	Percentile Classes					High
	Multi below normal	Below normal	Normal	Above normal	Multi above normal	
Low	<-15%	15-24%	25-75%	76-85%	>=86%	

Change Time Period

NEW NRCC SPI Maps

Current ACIS Maps - SPI

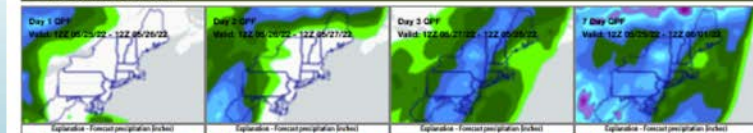
Current ACIS Maps - SPEI

Experimental NWM Soil Moisture Maps

Experimental NWM Streamflow Maps

Evaporative Demand Drought Index Maps

NOAA NCEP Outlooks



<https://nedews.nrc.cornell.edu/>

Drought Monitor

U.S. Drought Monitor Northeast

April 26, 2022
(Released Thursday, Apr. 28, 2022)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	81.37	17.40	1.24	0.00	0.00	0.00
Last Week 04-19-2022	81.37	17.40	1.24	0.00	0.00	0.00
3 Months Ago 01-25-2022	89.35	8.61	1.19	0.85	0.00	0.00
Start of Calendar Year 01-04-2022	84.91	12.92	1.32	0.85	0.00	0.00
Start of Water Year 09-28-2021	90.30	6.56	2.35	0.80	0.00	0.00
One Year Ago 04-27-2021	45.90	40.56	13.54	0.00	0.00	0.00

Intensity:

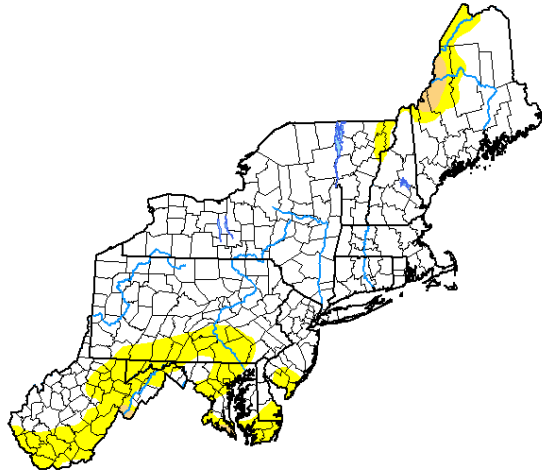
- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

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:
Brad Rippey
U.S. Department of Agriculture



droughtmonitor.unl.edu



U.S. Drought Monitor Northeast

May 24, 2022
(Released Thursday, May 26, 2022)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	84.88	12.88	2.24	0.00	0.00	0.00
Last Week 05-17-2022	85.14	13.74	1.12	0.00	0.00	0.00
3 Months Ago 02-22-2022	82.28	15.69	1.19	0.85	0.00	0.00
Start of Calendar Year 01-04-2022	84.91	12.92	1.32	0.85	0.00	0.00
Start of Water Year 09-28-2021	90.30	6.56	2.35	0.80	0.00	0.00
One Year Ago 05-25-2021	52.41	44.75	2.83	0.00	0.00	0.00

Intensity:

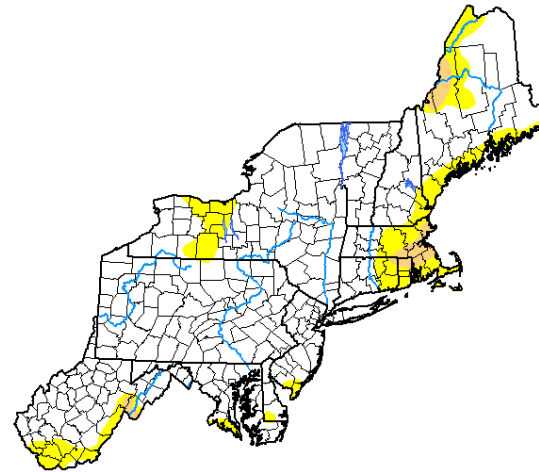
- None
- D0 Abnormally Dry
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- D3 Extreme Drought
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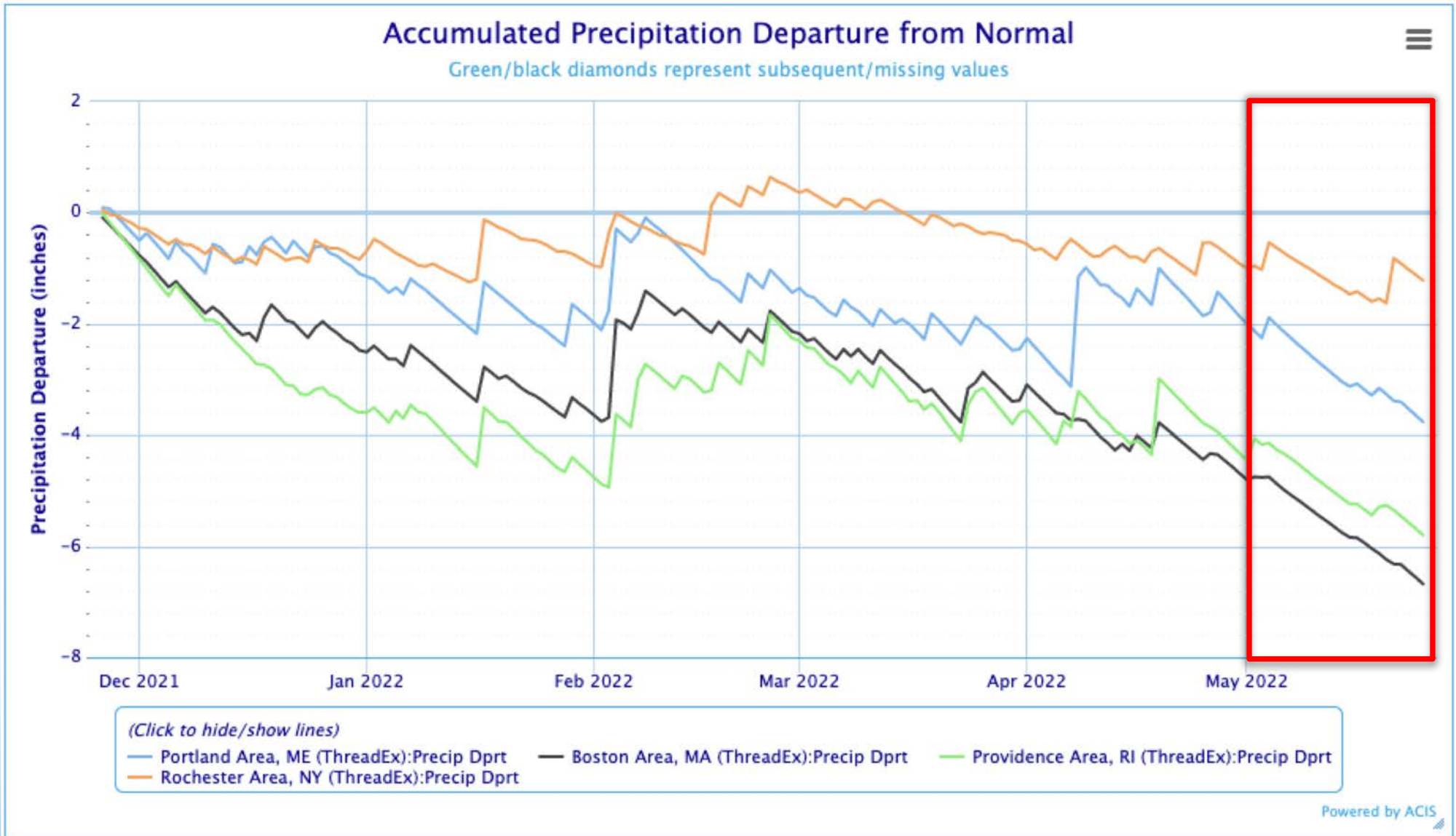
Author:
Richard Heim
NCEI/NOAA



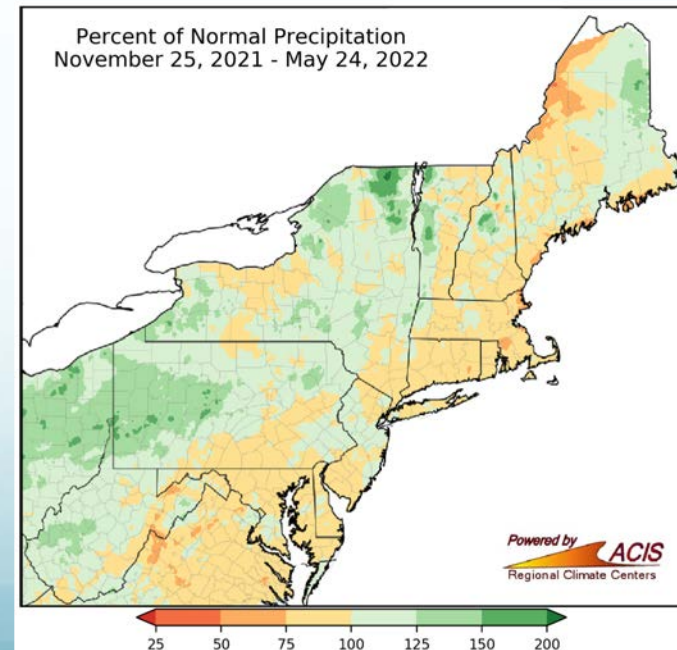
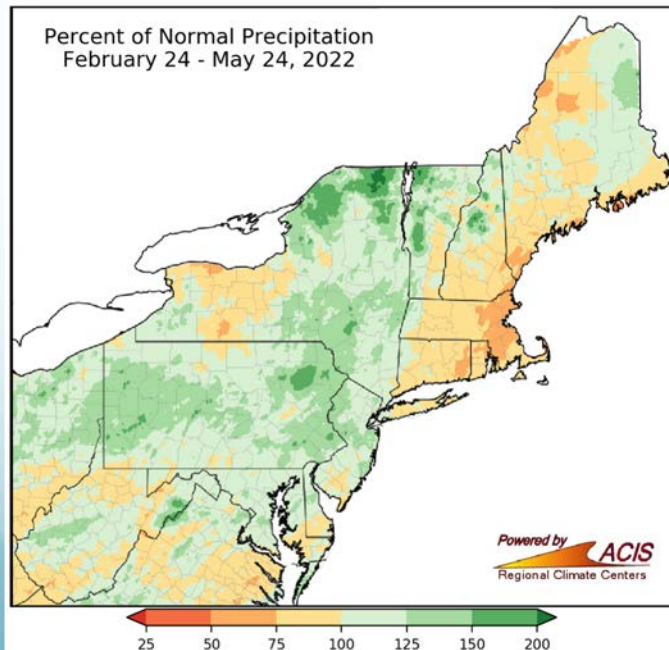
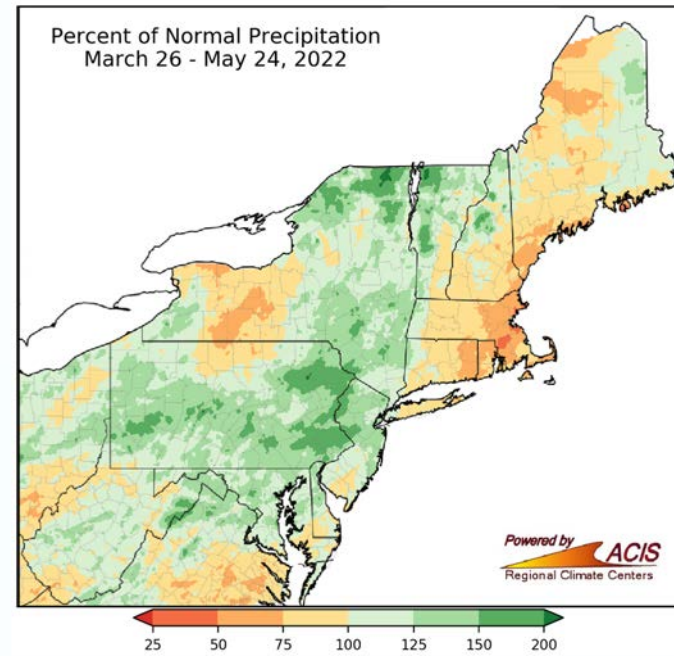
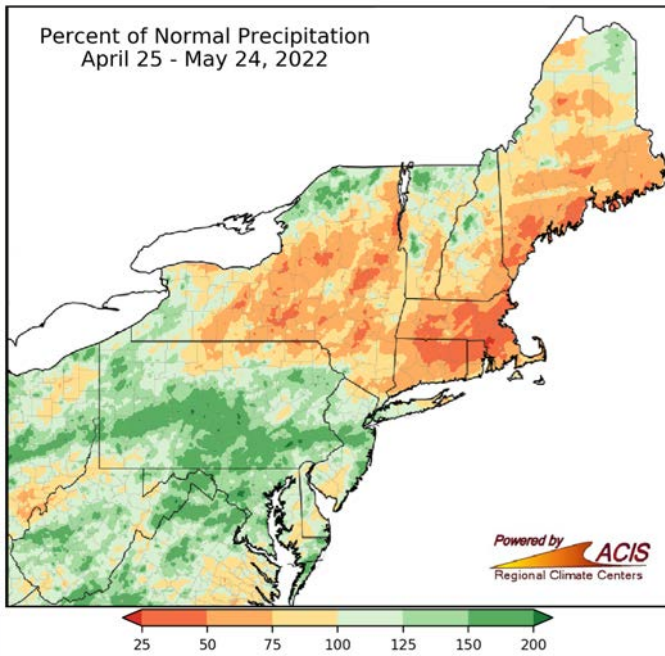
droughtmonitor.unl.edu



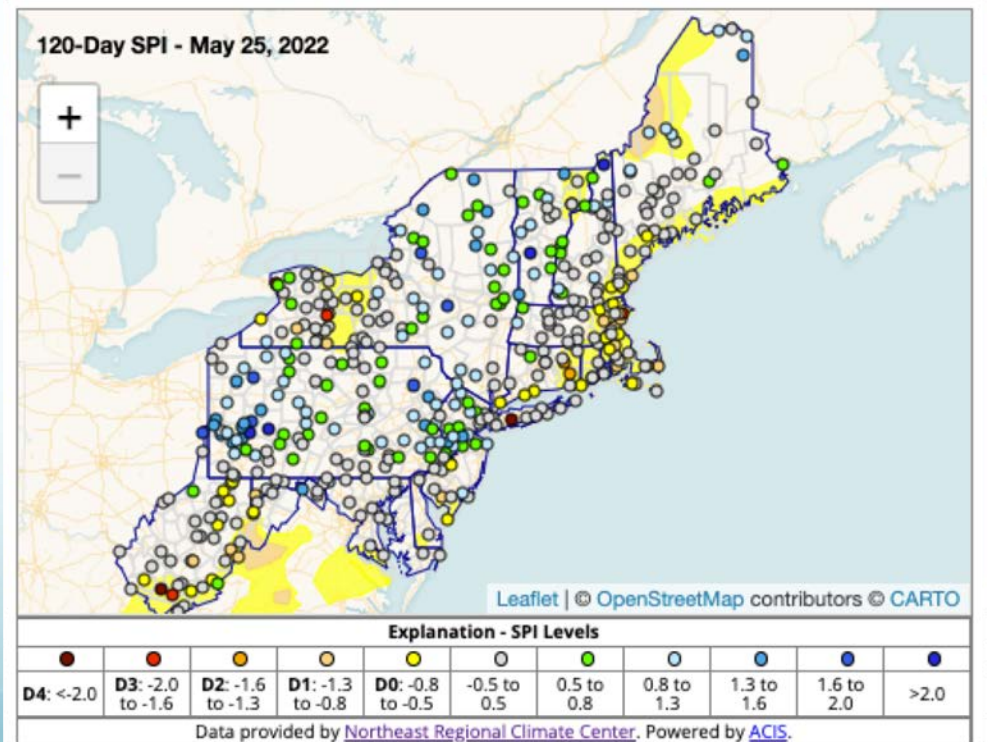
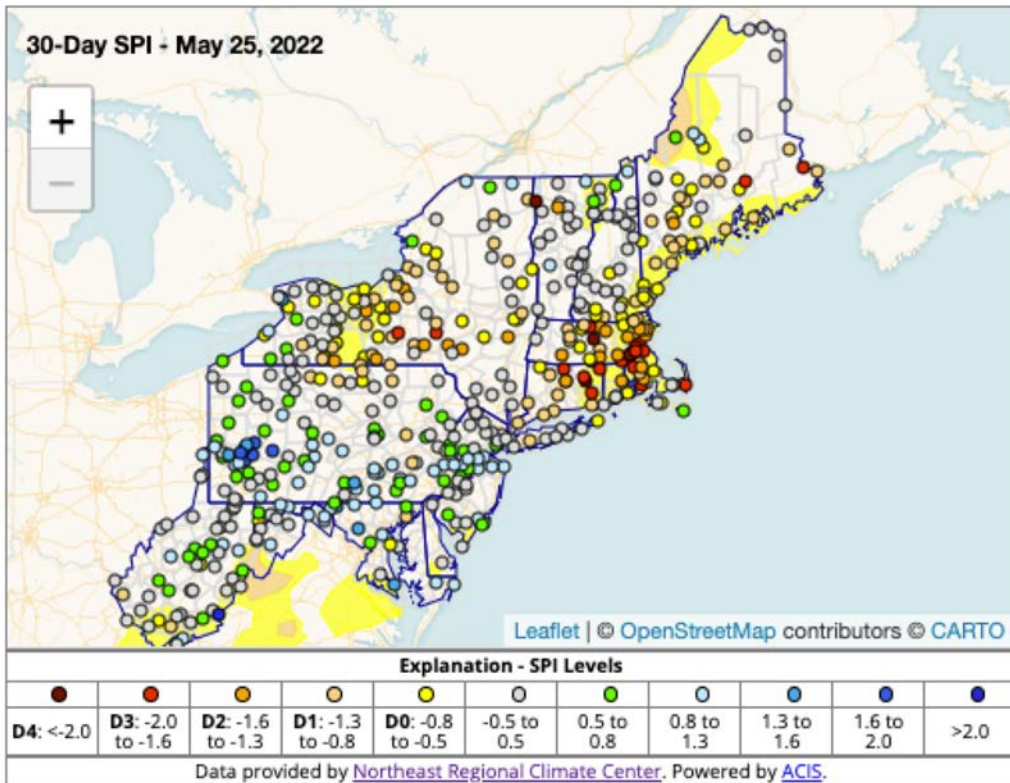
Precipitation



Precipitation

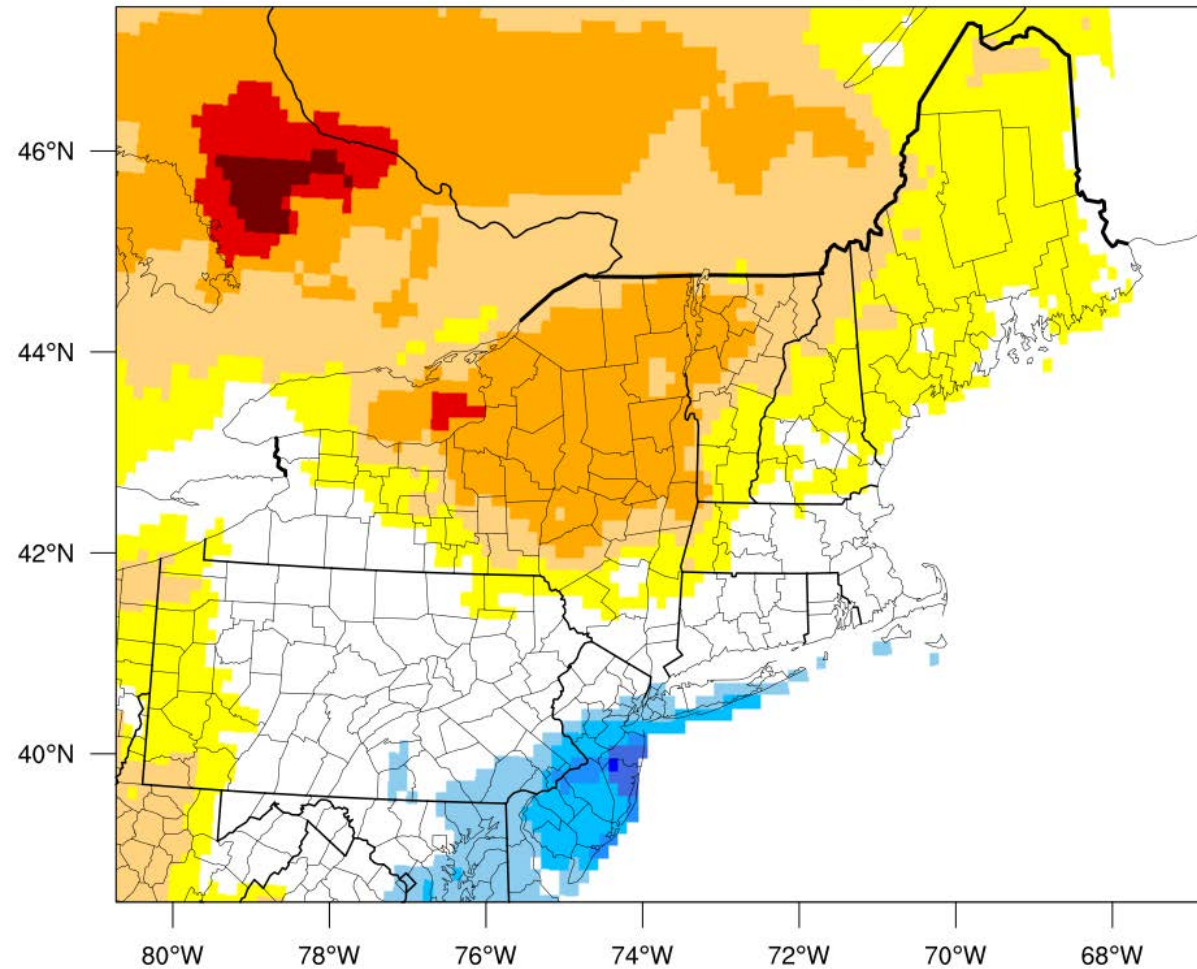


Standardized Precipitation Index



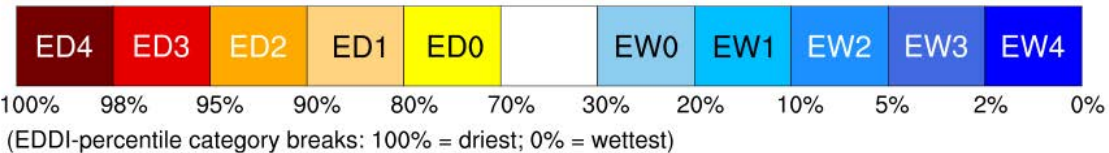
Evap. Demand Drought Index

3-week EDDI categories for May 20, 2022



Drought categories

Wetness categories

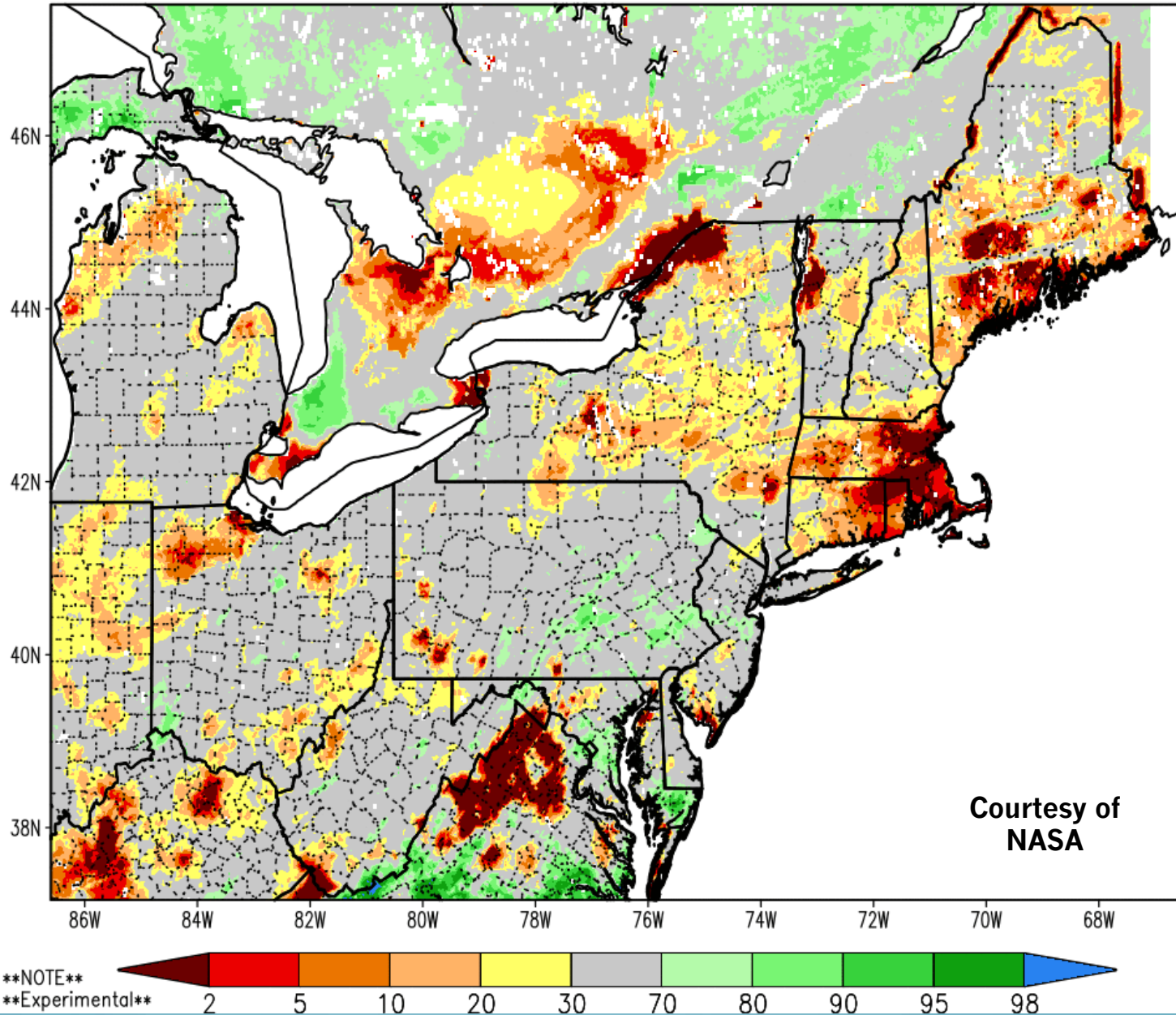


Generated by NOAA/ESRL/Physical Sciences Laboratory

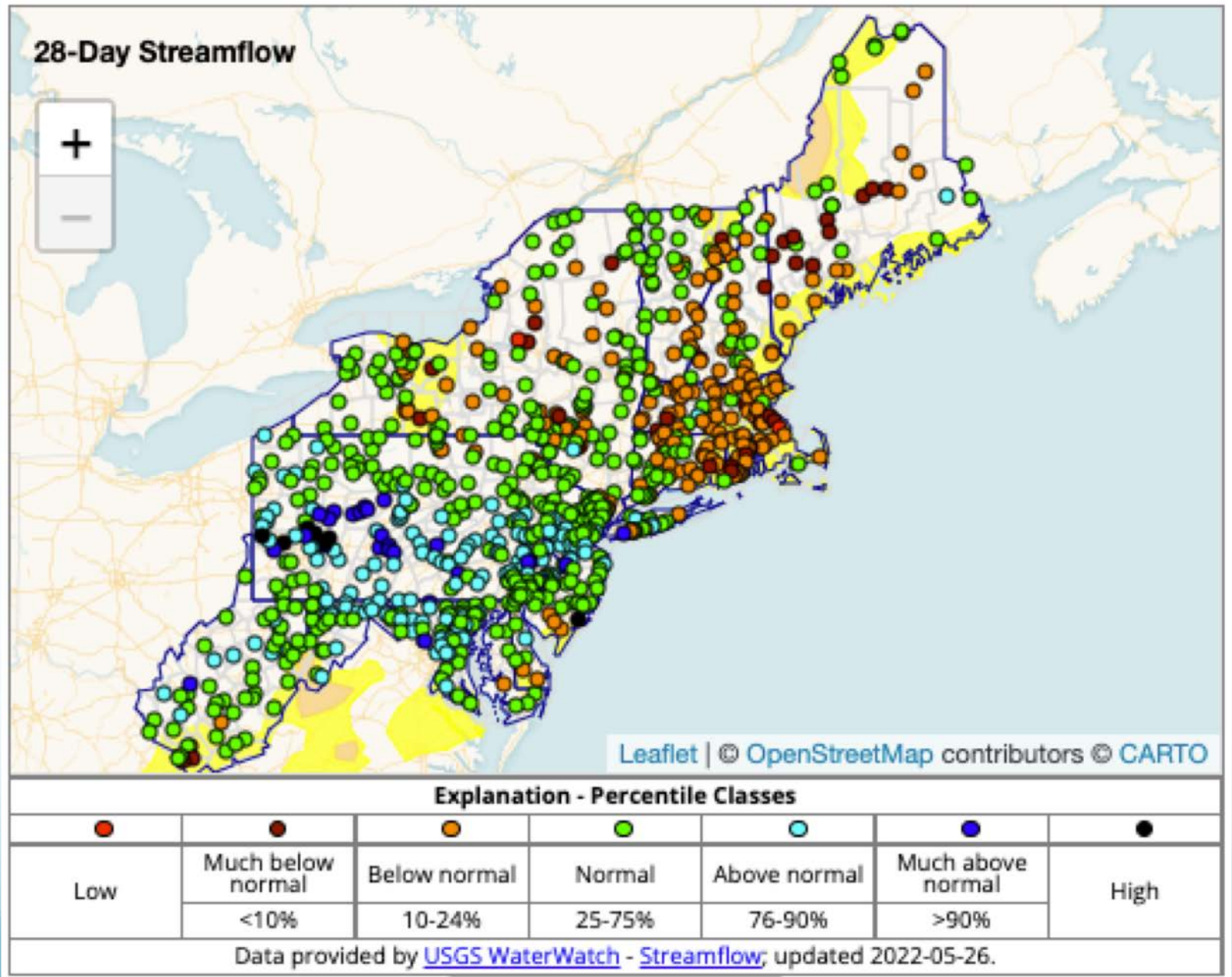


Soil Moisture

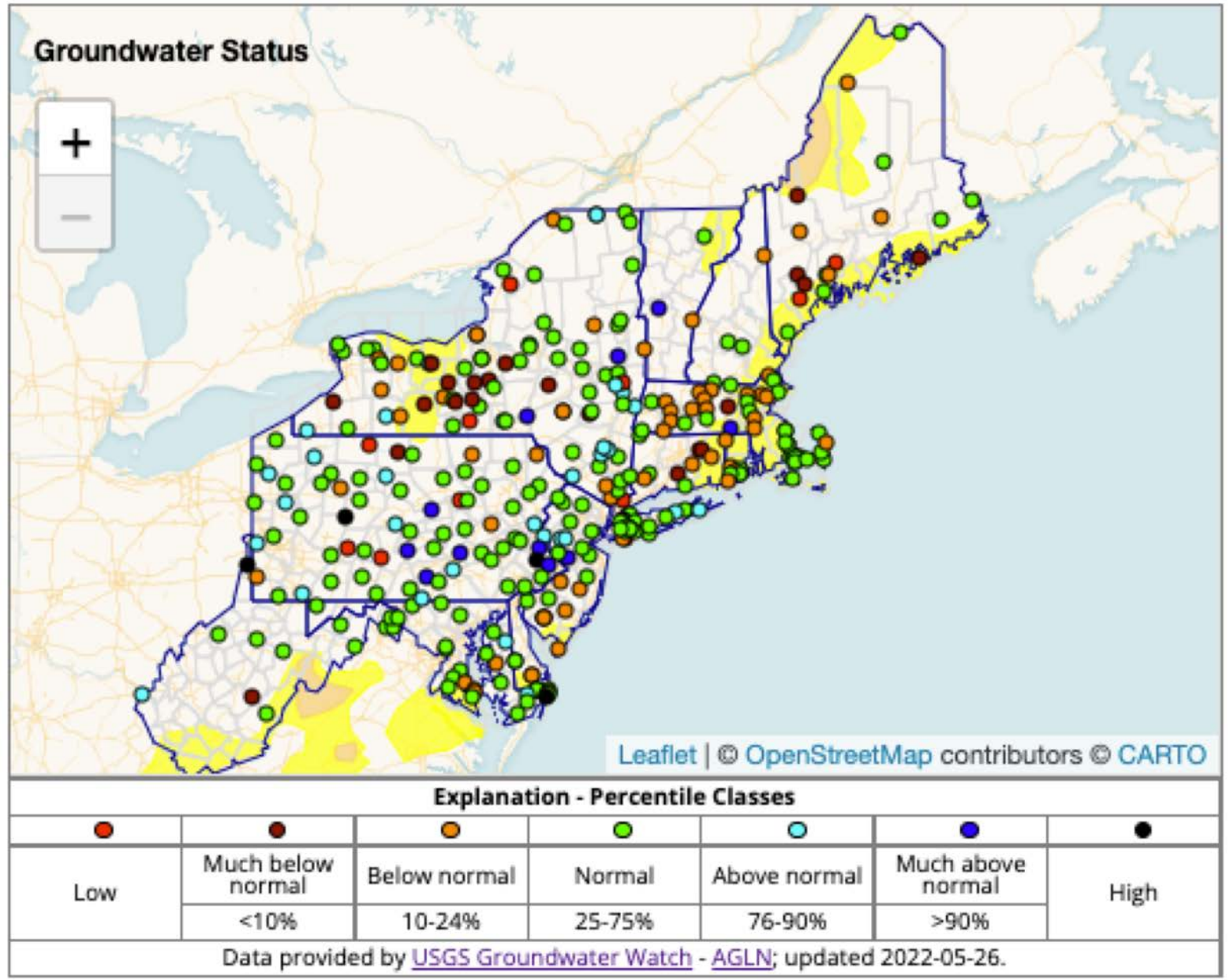
SPoRT-LIS 0-100 cm Soil Moisture percentile valid 26 May 2022



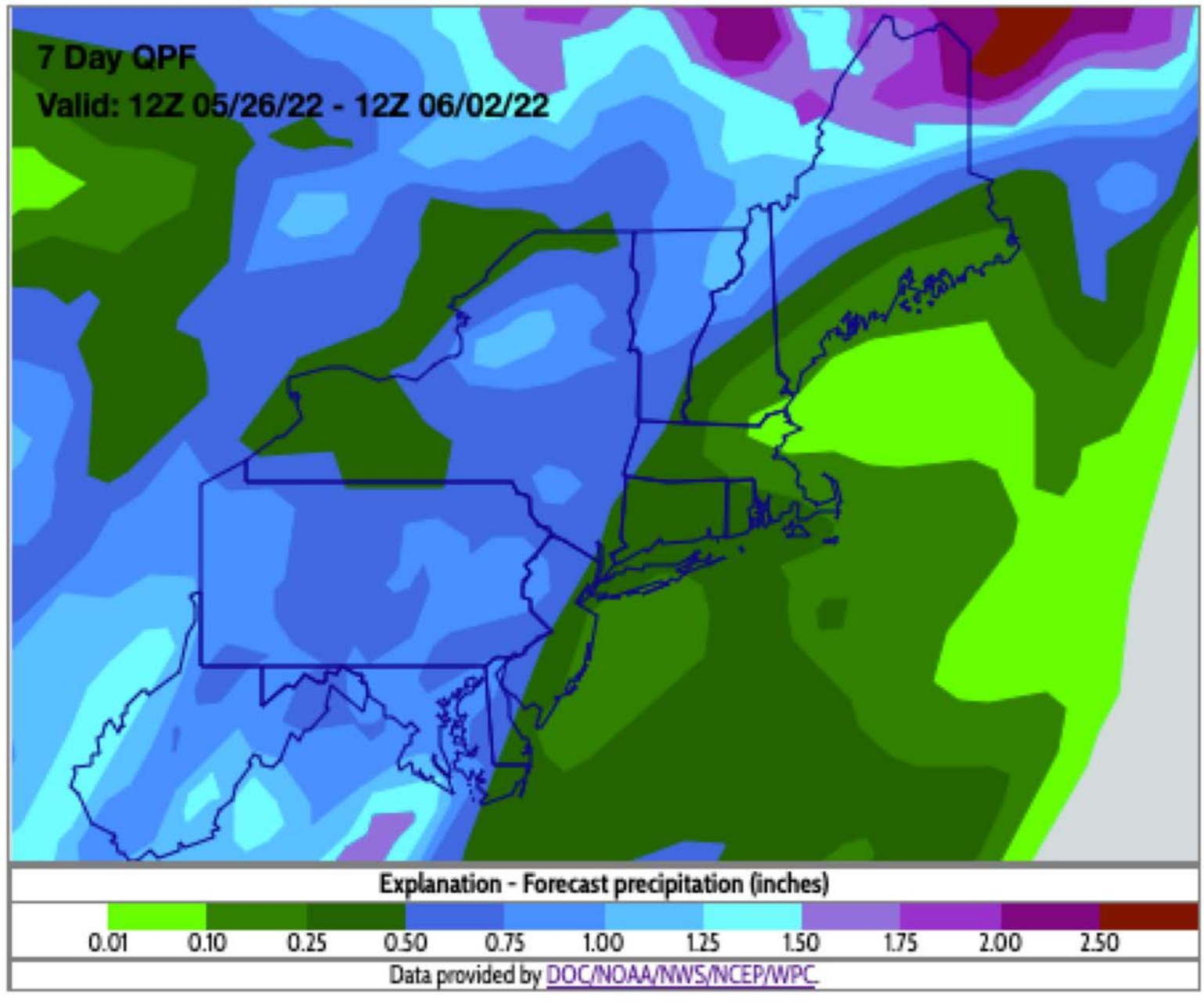
Streamflow



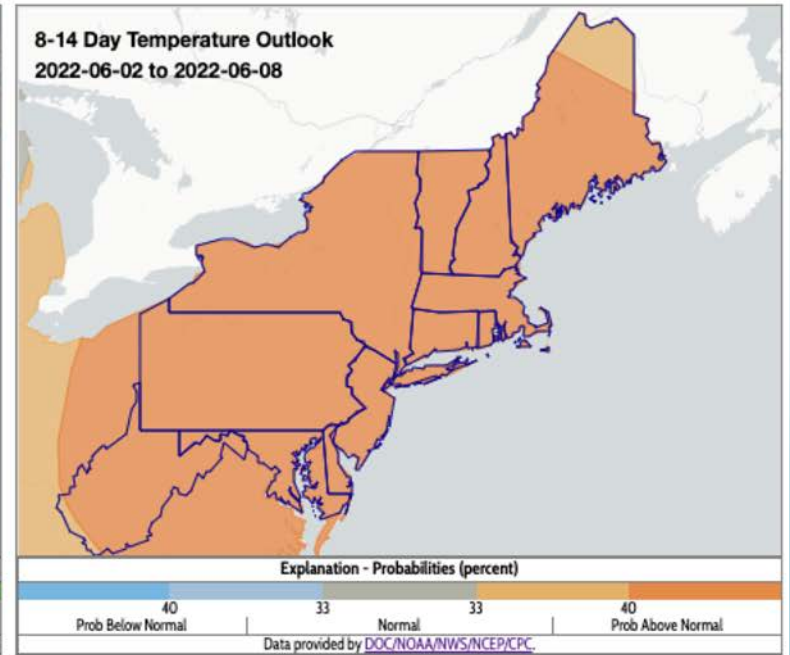
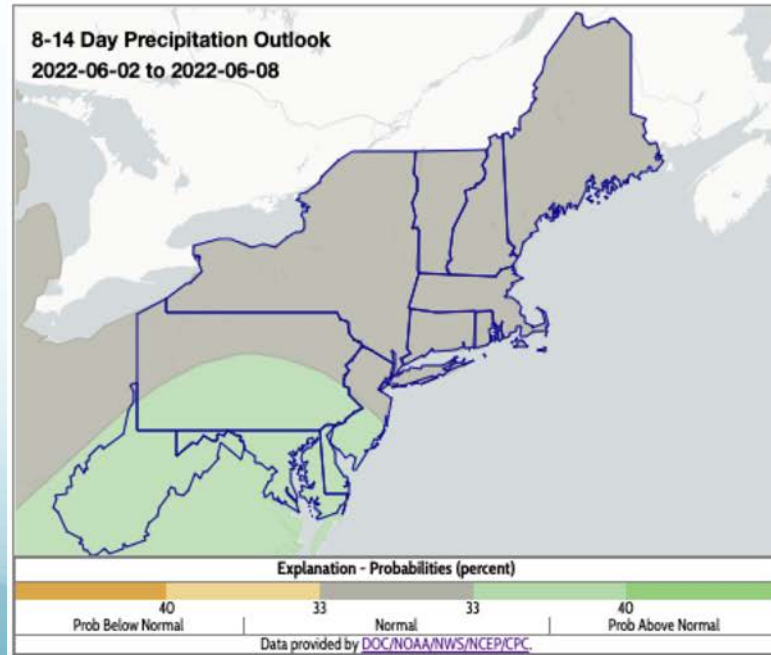
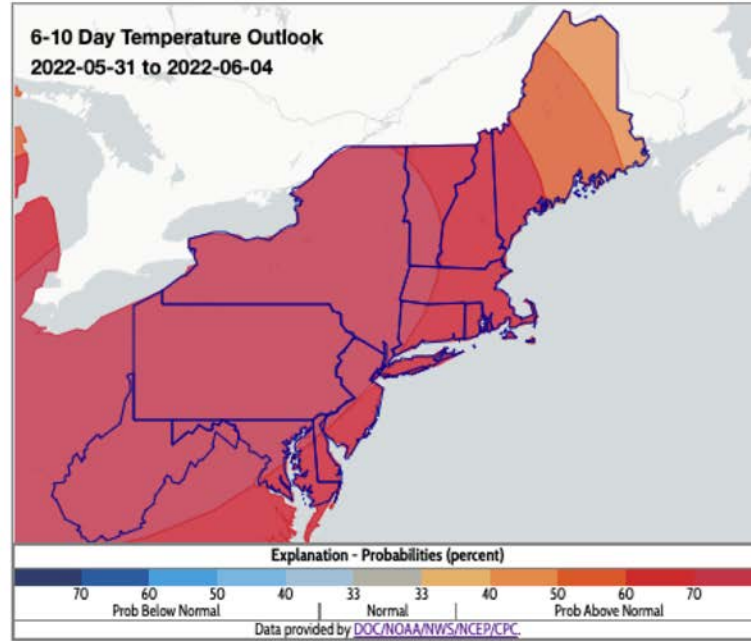
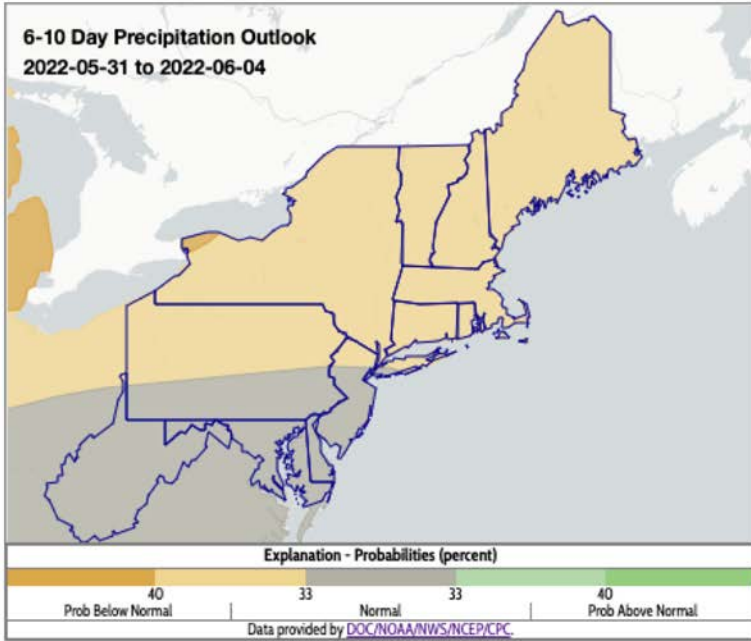
Groundwater



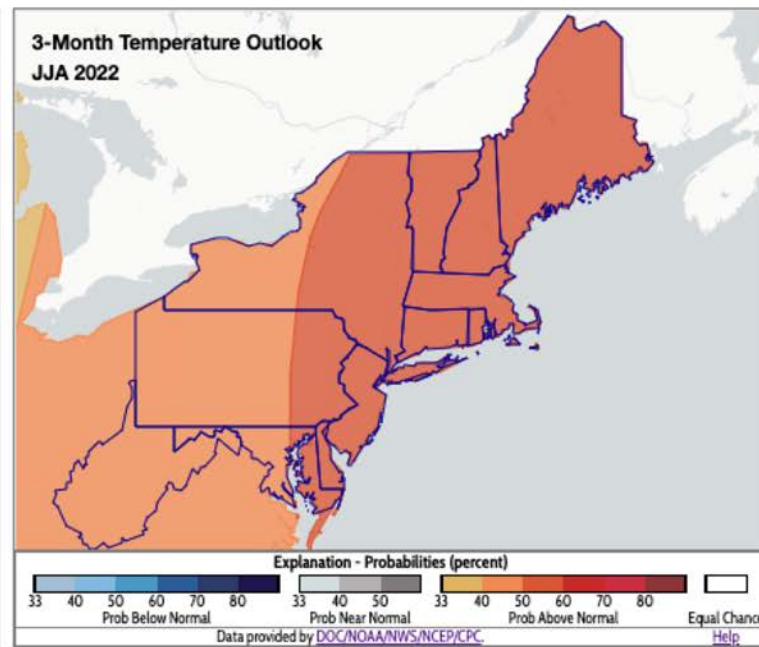
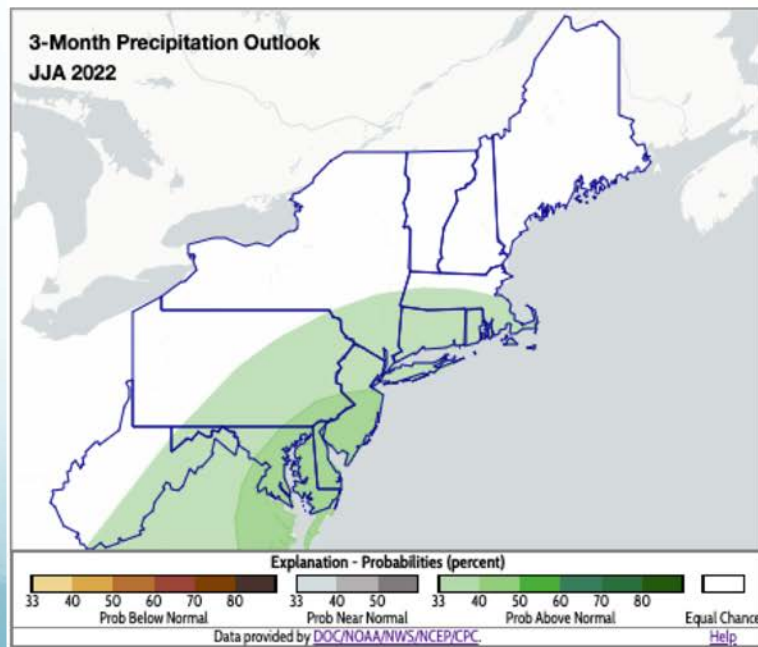
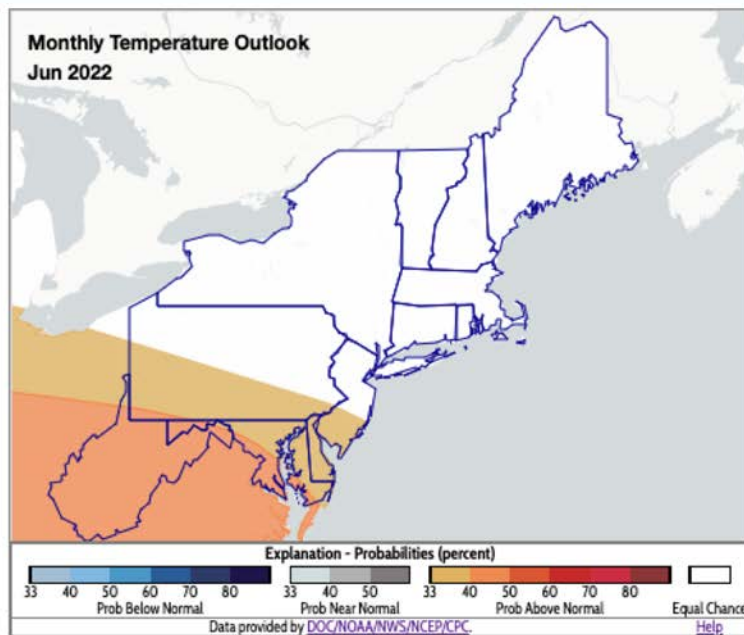
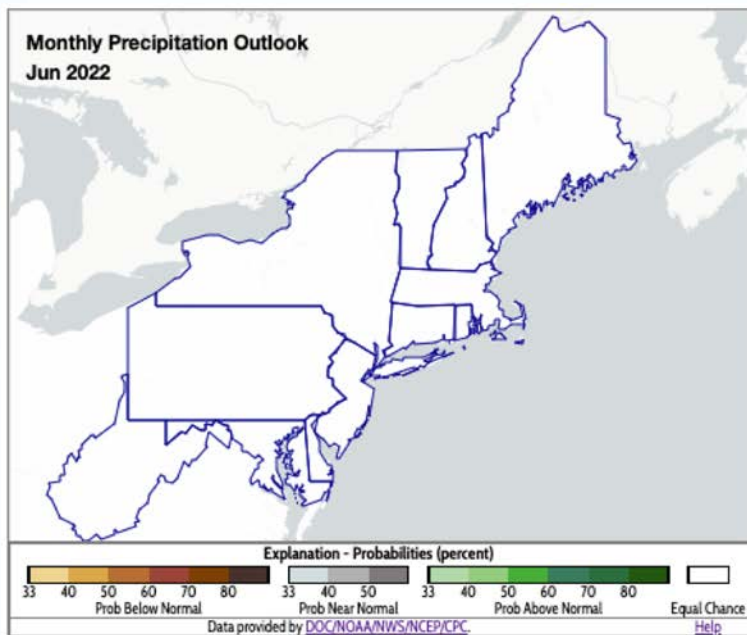
Precipitation Forecast



Short-term Outlooks



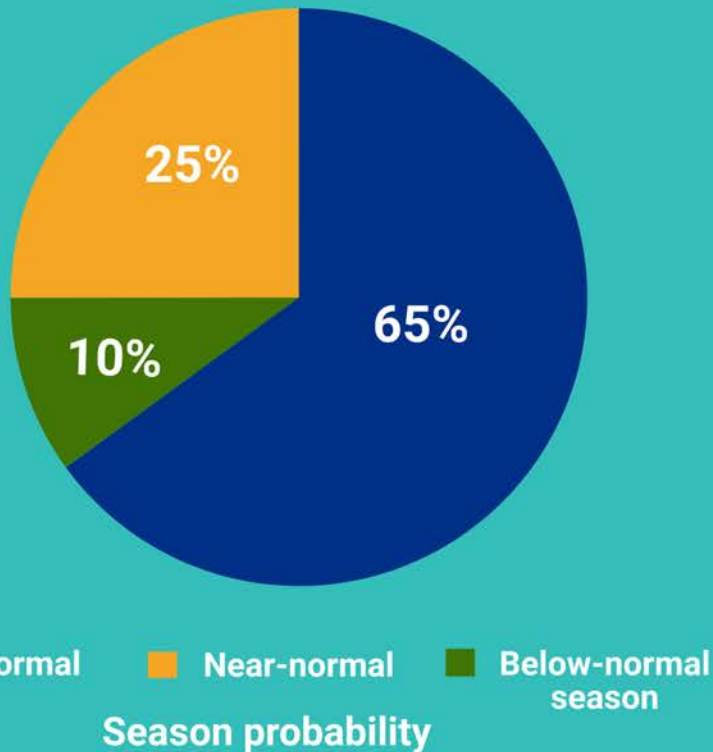
Monthly & 3-Month Outlooks



Hurricane Outlook



2022 Atlantic Hurricane Season Outlook



Named storms

14-21

Hurricanes

6-10

Major hurricanes

3-6

NOAA

Be prepared: Visit hurricanes.gov and follow @NWS and @NHC_Atlantic on Twitter.

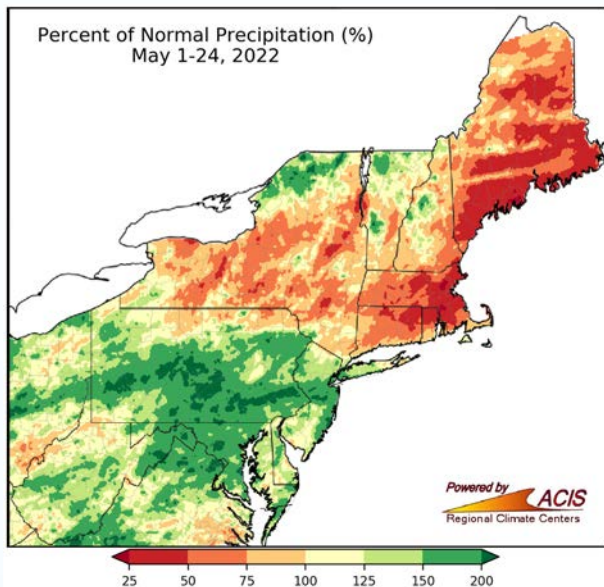
May 2022



Summary

May-to-date conditions:

- Above-normal temperatures
- Precip: below normal in NY and New England; above normal in southern areas



Drought:

- Improvement:
 - Southern areas and far northern New England
- Deterioration:
 - Coastal New England and western New York
 - Monitor conditions due to next week likely being warm and dry

Outlooks:

- Short-term outlooks: mostly warm; northern areas drier in the 6-10 day period and southern areas wetter in the 8-14 day period
- June: equal chances precip; above-normal temperatures for southern areas
- Summer: equal chances precip for most except wetter in southeastern areas; above-normal temperatures
- Hurricane season: another above-average season predicted



Contact Information

- nrcc@cornell.edu

Upcoming Webinars

- Thursday, June 30 at 9:30am
 - Ocean Warming
- Thursday, July 28 at 9:30am
 - Climate Migration
- Tuesday, August 30 at 9:30am
 - Atlantic Hurricane Season Update and Outlook
- Thursday, September 29 at 9:30am
 - Seasonal Bird Migration



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