May Conditions & Northeast DEWS Discussion

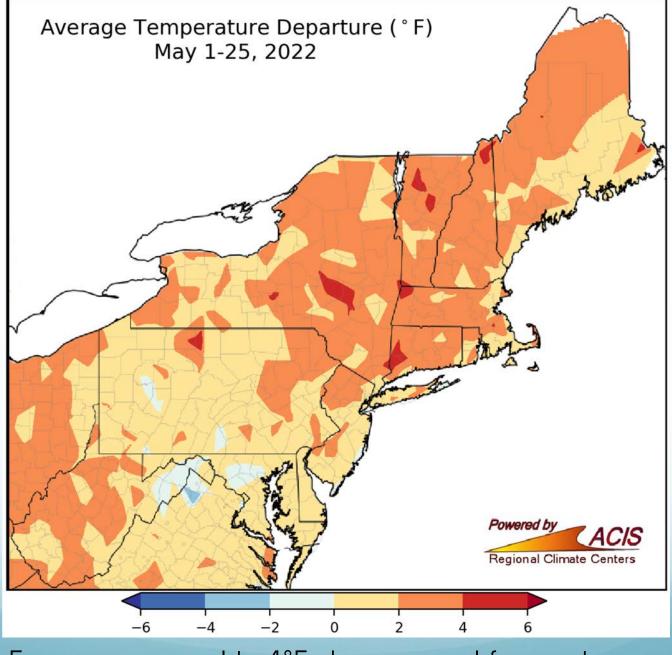
By: Samantha Borisoff, Climatologist Northeast Regional Climate Center







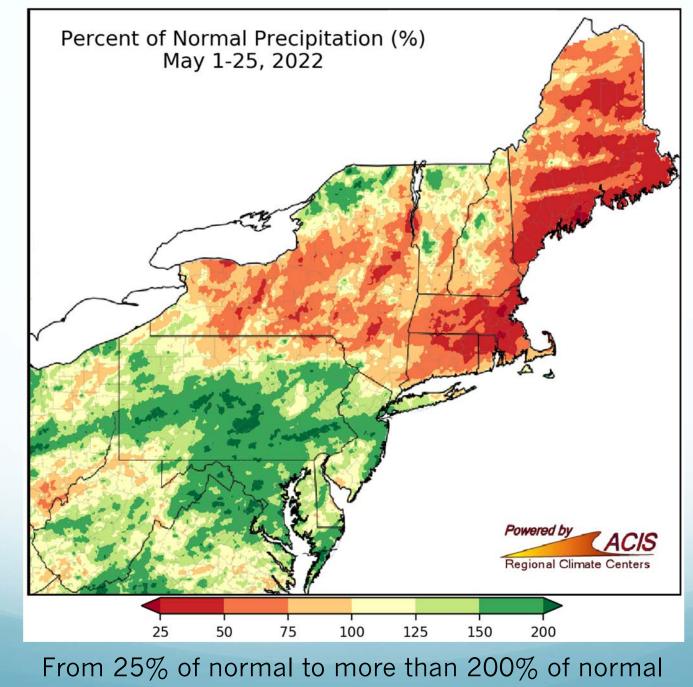
May Temperatures





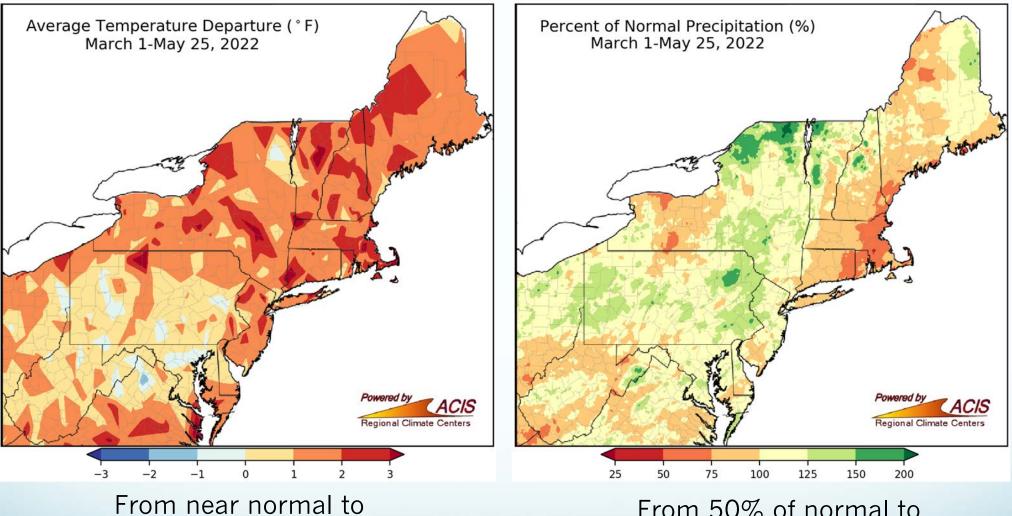
From near normal to 4°F above normal for most areas

May Precipitation





Spring Conditions



3°F above normal

From 50% of normal to 200% of normal



Drought Resources





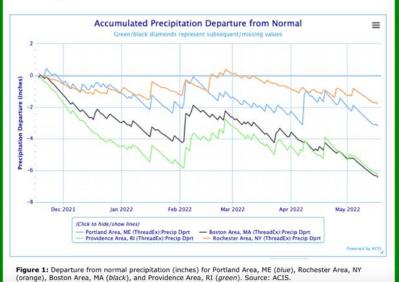
May 20, 2022

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.



Circle a state to zoom maps below [Balam to MoTheast]

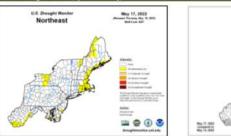
US Drought Monitor (updated weekly)

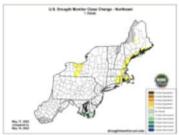
Northeast DEWS Dashboard



Drought Status Update

May 19, 2022 - New York and New England continues to miss out on the heaviers precipitation this week. With increasing precipitation deficits, declining is dimoisture, and low streamflows, abnormal dynesis expanded in coastal New England and central Maine and wai introduced in western New York. The U.S.-Tooght Mention elissed on May 19 showed 3% of the Northwart Defort in mederate drought and 19% as abnormally dry compared to 2% and 6%, respectively, Jame 8. <u>Trought Failwaring Variane</u> (Marine) (Jadane)

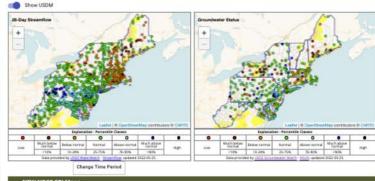


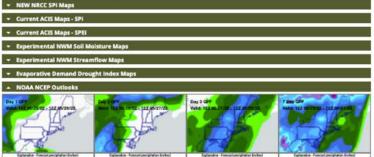


Last USDM Week (ending 2022-5-17) ACIS Precipitation Maps

Current ACIS Precipitation Maps

USGS Streamflow and Groundw

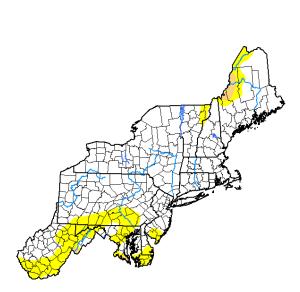




https://nedews.nrcc.cornell.edu/

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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 Month s 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:

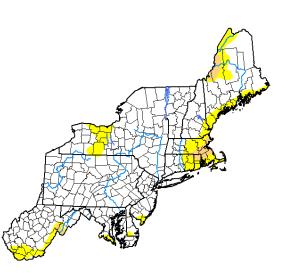
None	D2 Severe Drought
D0 Abnormally Dry	D3 Extreme Drought
D1 Moderate Drought	D4 Exceptional Drough

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

<u>Author:</u> Brad Rippey U.S. Department of Agriculture



U.S. Drought Monitor Northeast



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

Vallu 6 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 Month s 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 Intensity:



52.41 44.75 2.83 0.00 0.00 0.00

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: Richard Heim NCEI/NOAA



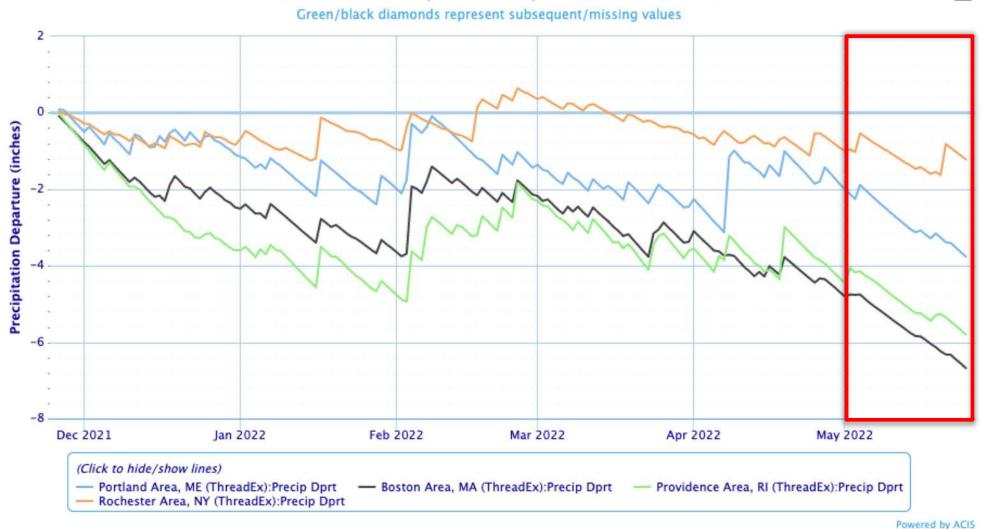
droughtmonitor.unl.edu



Precipitation

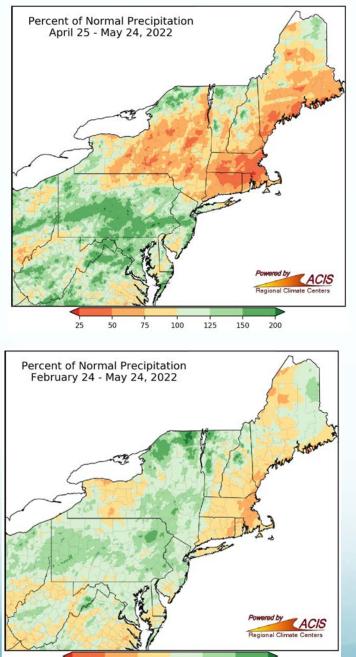
Accumulated Precipitation Departure from Normal

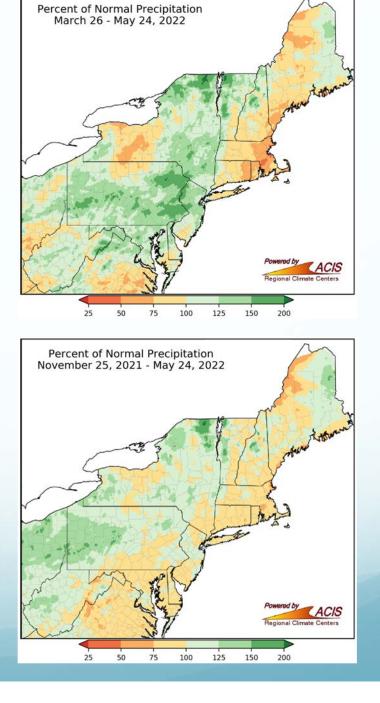
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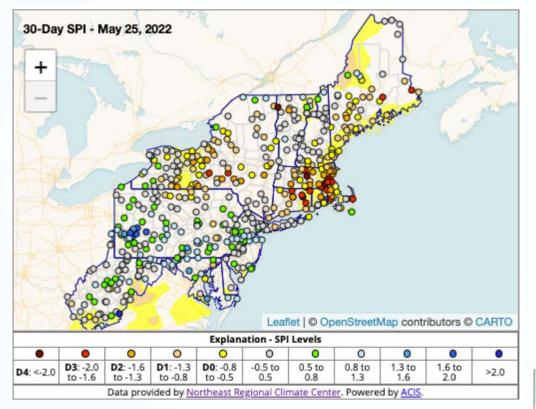


Precipitation

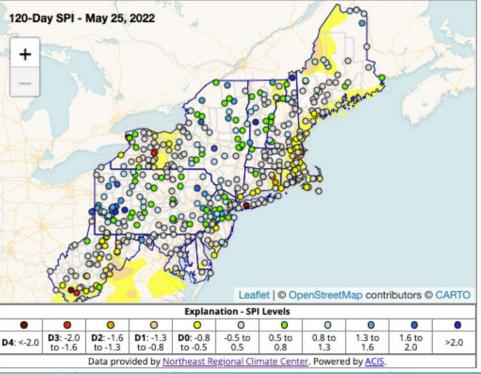






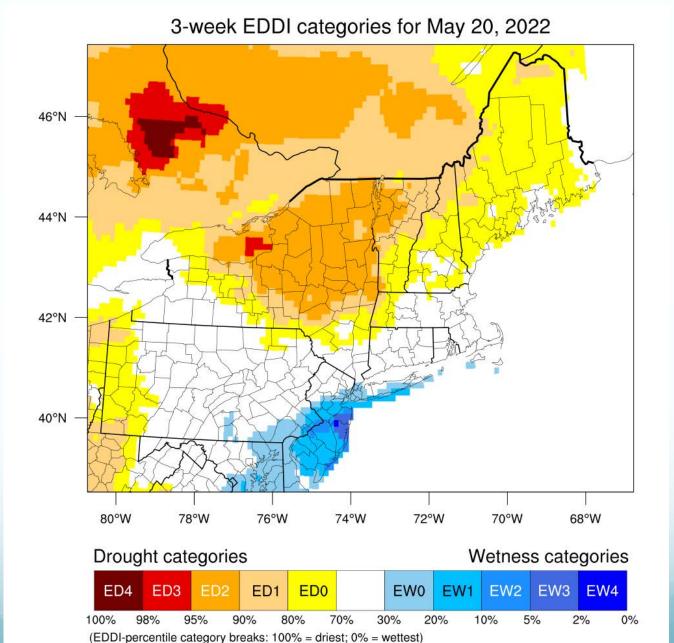


Standardized Precipitation Index





Evap. Demand Drought Index

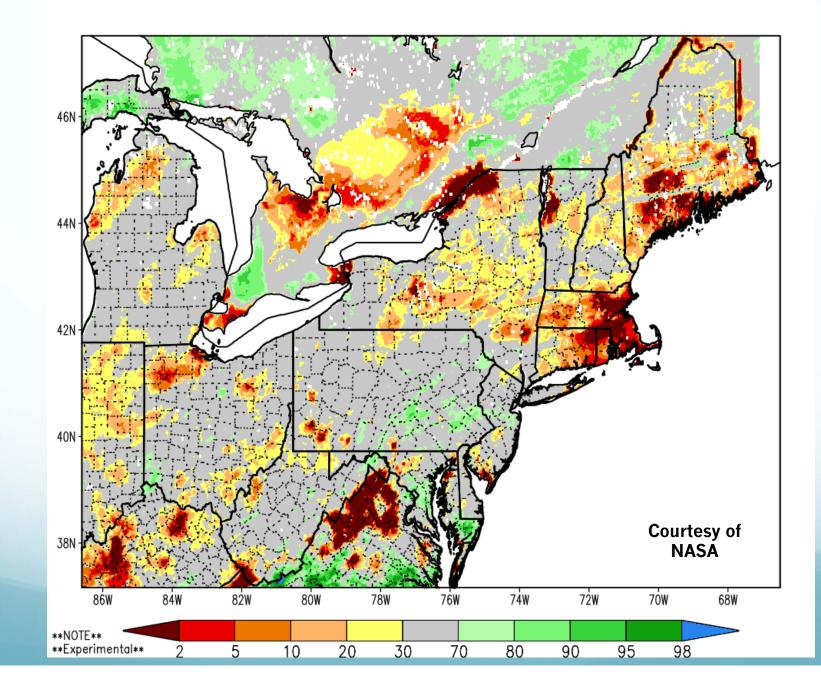




Generated by NOAA/ESRL/Physical Sciences Laboratory

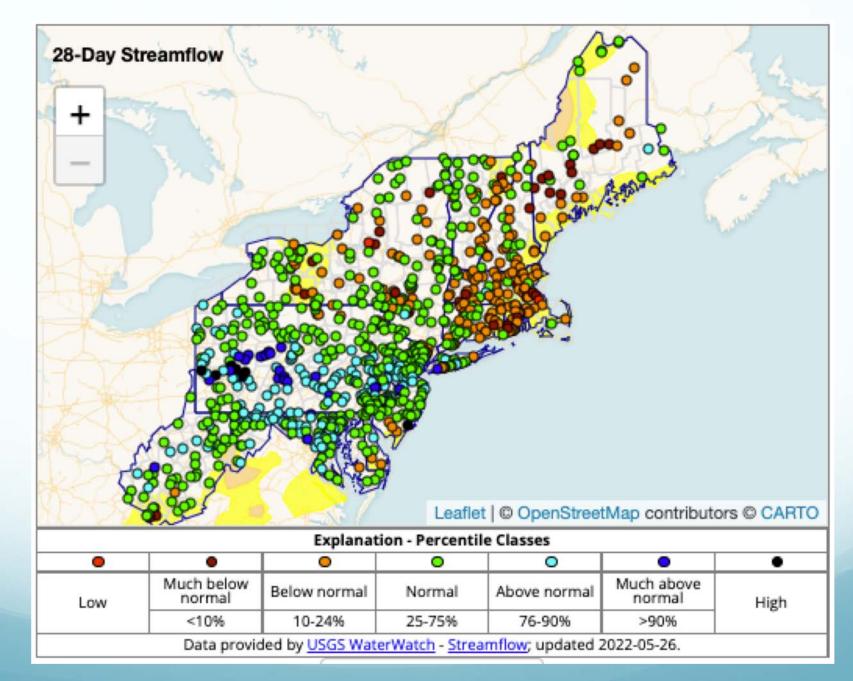
Soil Moisture

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



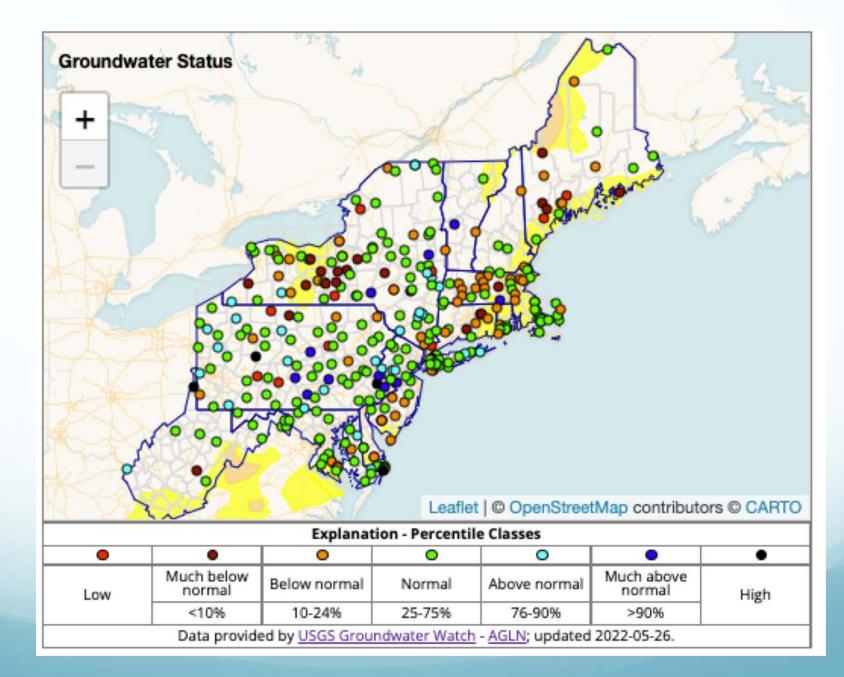


Streamflow



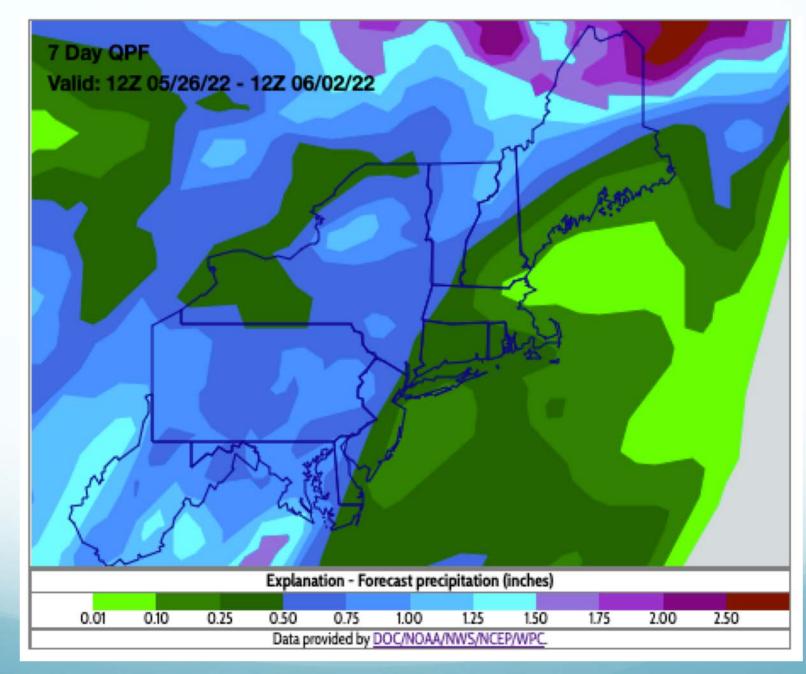


Groundwater



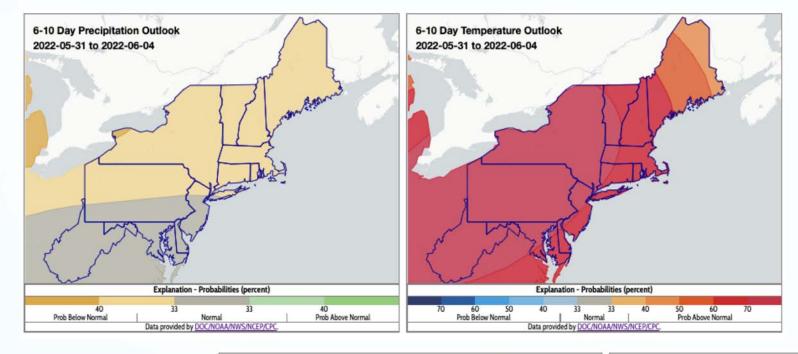


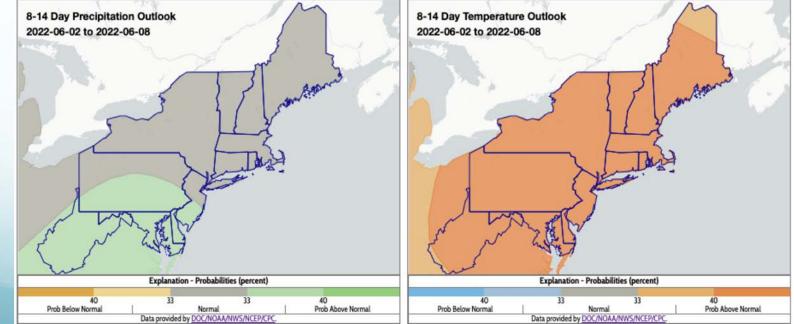
Precipitation Forecast

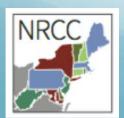




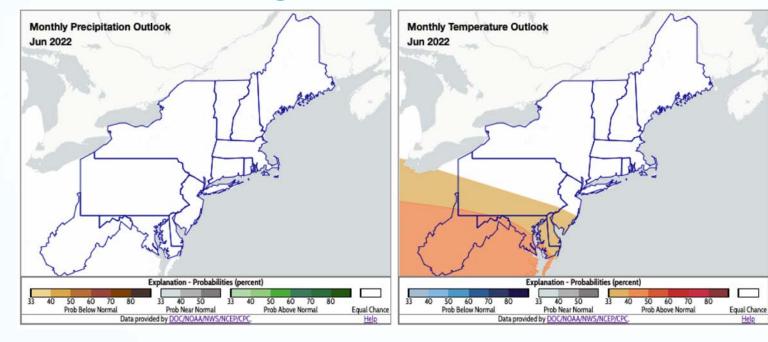
Short-term Outlooks

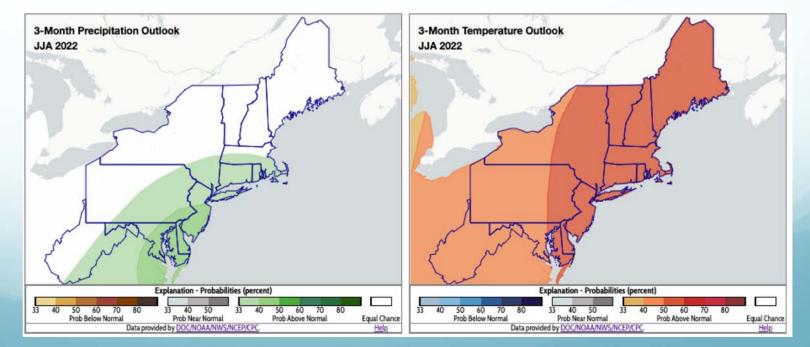






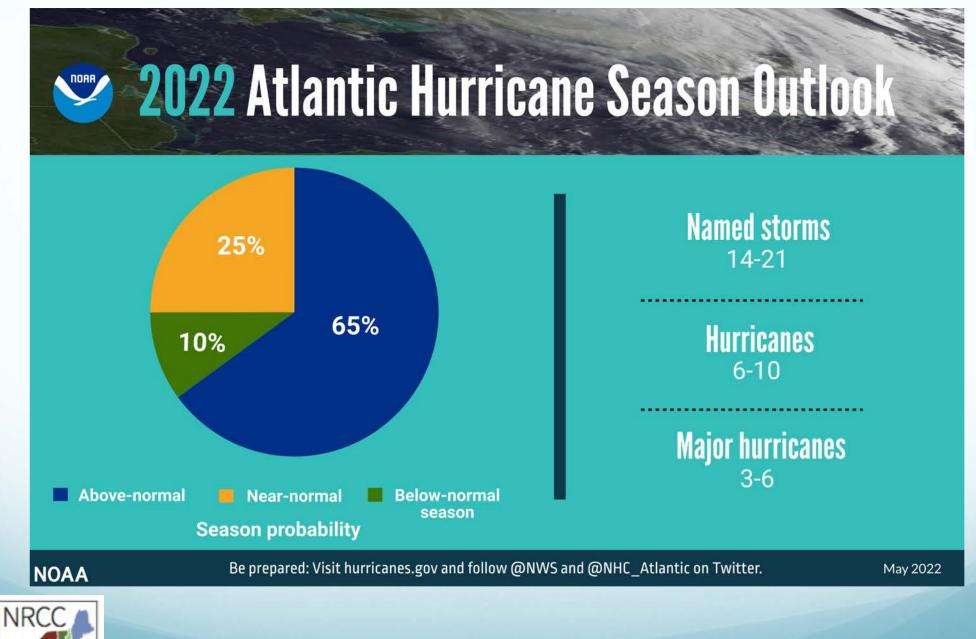
Monthly & 3-Month Outlooks







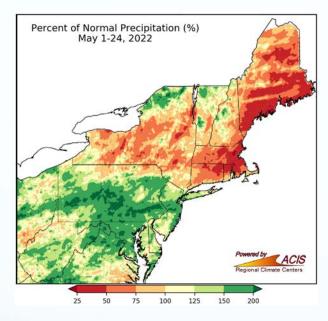
Hurricane Outlook



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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