July Review & Northeast DEWS Discussion

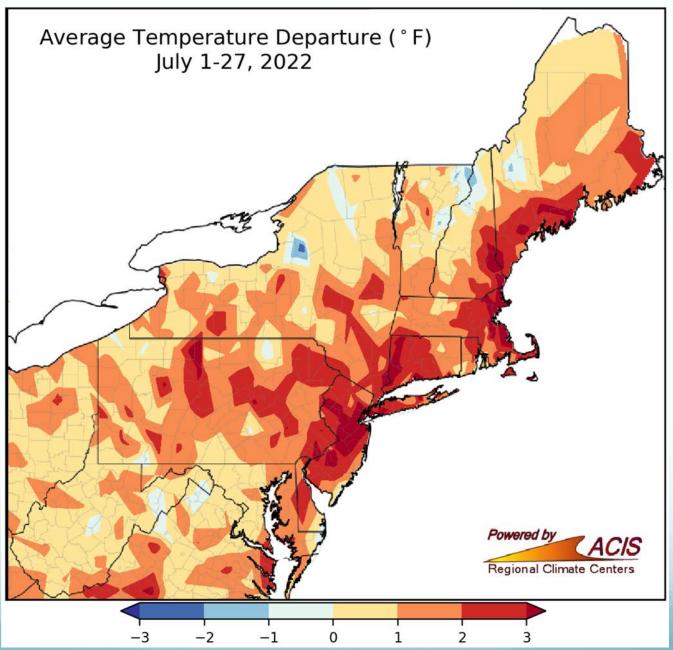
By: Samantha Borisoff, Climatologist Northeast Regional Climate Center







July Temperatures





From near normal to more than 3°F above normal

July Temperatures

Number of Consecutive Days Max Temperature >= 100 for Newark Area, NJ (ThreadEx)

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

Rank	Run Length	Dates				
1	5	2022-07-20 through 2022-07-24				
2	4	2010-07-04 through 2010-07-07				
-	4	1993-07-07 through 1993-07-10				
-	4	1953-08-28 through 1953-08-31				
5	3	2011-07-21 through 2011-07-23				
	Last value also occu	urred in one or more previous years.				
	Period of reco	rd: 1931-01-01 to 2022-07-27				

Number of Consecutive Days Max Temperature >= 95 for New York-LGA Area, NY (ThreadEx)

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

Rank	Run Length	Dates			
1	6	1953-08-28 through 1953-09-02			
2	5	2022-07-20 through 2022-07-24			
-	5	2020-07-18 through 2020-07-22			
-	5	1991-07-17 through 1991-07-21			
-	5	1948-08-25 through 1948-08-29			
	Period of reco	rd: 1939-10-07 to 2022-07-27			

Number of Consecutive Days Min Temperature >= 75 for Philadelphia Area, PA (ThreadEx)

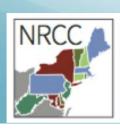
Click column heading to sort ascending, click again to sort descending.

Rank	Run Length	Ending Date		
1	10	2022-07-27		
2	9	1995-07-30		
3	8	2016-08-17		
-	8	1993-07-14		
5	7	1991-07-25		
- 1	Period of record: 1872-03-05	to 2022-07-27		

Number of Consecutive Days Min Temperature >= 75 for New York-Kennedy Airport Area, NY (ThreadEx)

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

7	2022-07-25
7	2016-08-17
7	2013-07-21
7	1988-08-16
7	1981-07-13
	7 7 7 7 7 riod of record: 1948-07-17



SPC Filtered Storm Reports for 07/12/22 TORNADO REPORTS.. (0) WIND REPORTS/HI..... (291/2) ■ High Wind Report (65KT+) ▲ Large Hail Report (2" dia. +) HAIL REPORTS/LG..... (56/1) TOTAL REPORTS...... (347) National Weather Service Storm Prediction Center PRELIMINARY DATA ONLY Norman, Oklahoma

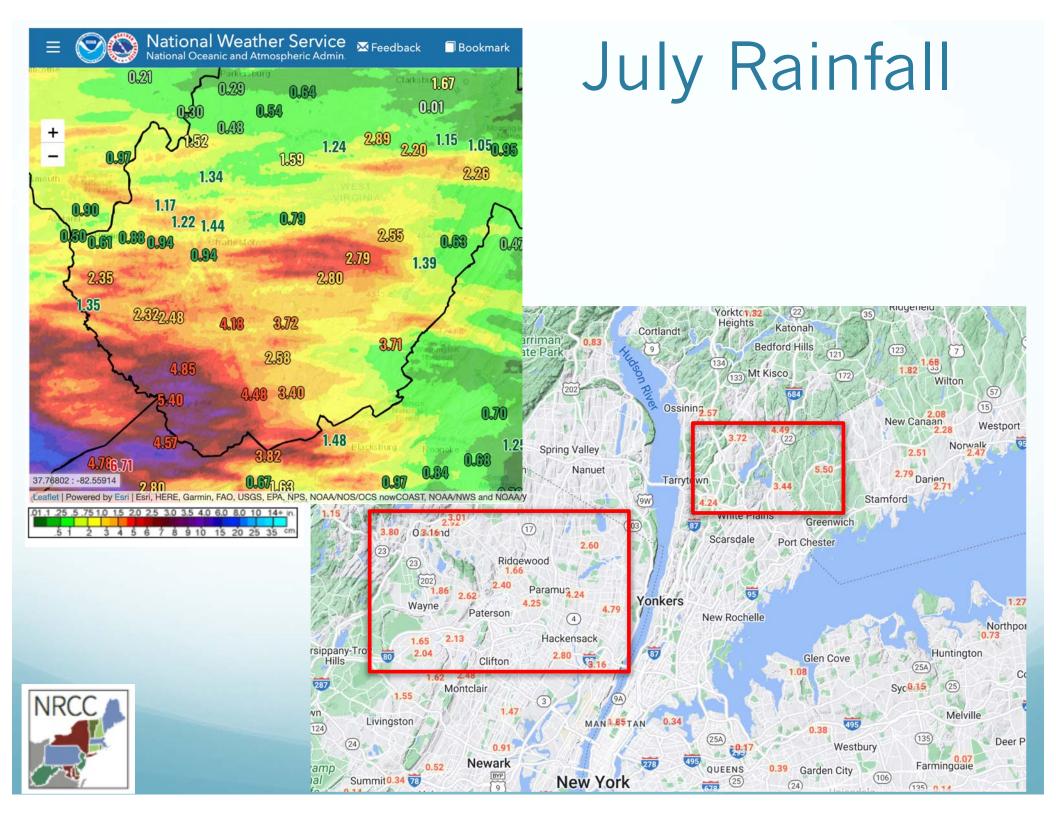
July Severe Weather



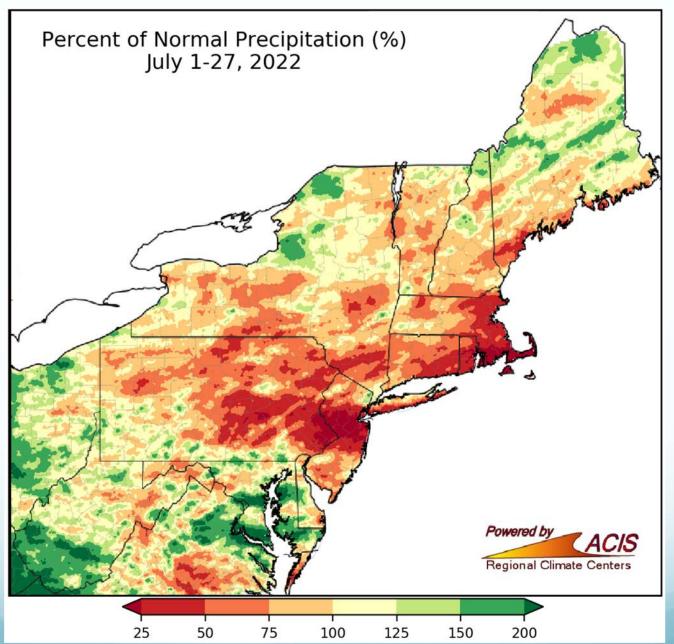








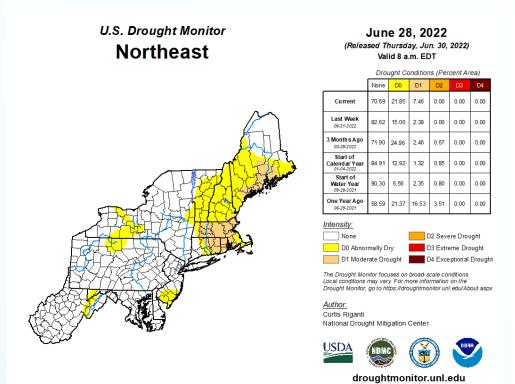
July Precipitation



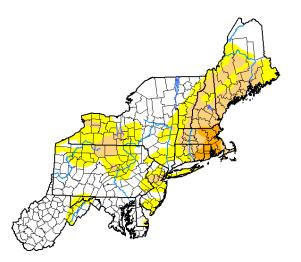


From less than 25% of normal to more than 200% of normal

Drought Monitor



U.S. Drought Monitor Northeast



July 26, 2022

(Released Thursday, Jul. 28, 2022) Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	50.54	28.39	18.28	2.80	0.00	0.00
Last Week 07-19-2022	52.72	24.86	21.21	1.21	0.00	0.00
3 Month's Ago 04-26-2022	81.37	17.40	1.24	0.00	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 07-27-2021	77.06	14.26	7.31	1.38	0.00	0.00



Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

Curtis Riganti

National Drought Mitigation Center





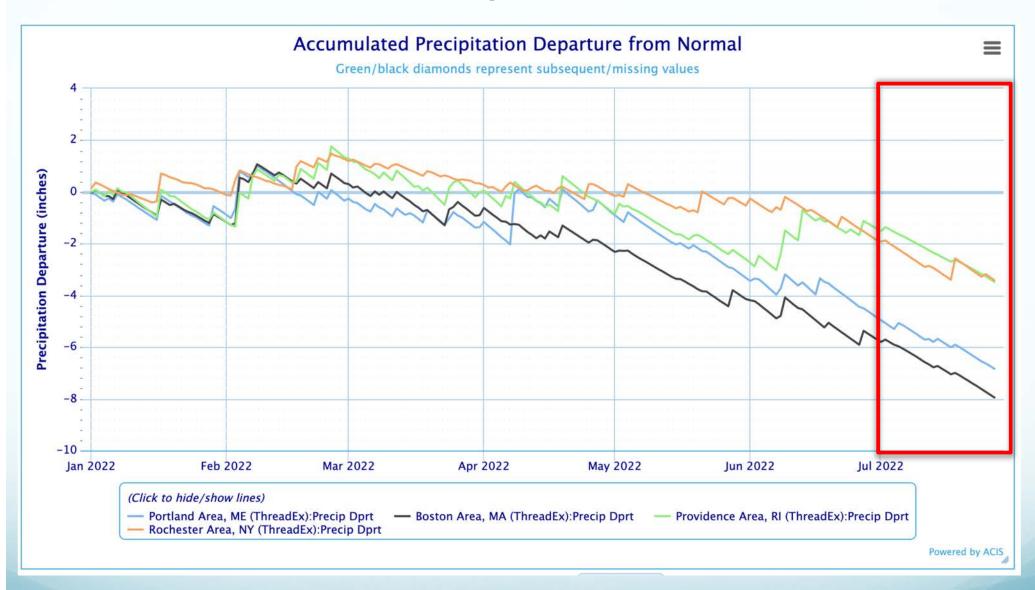




droughtmonitor.unl.edu

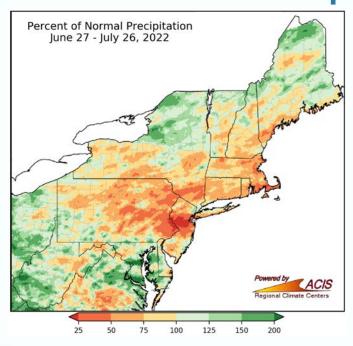


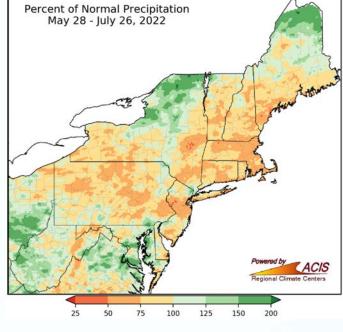
Precipitation

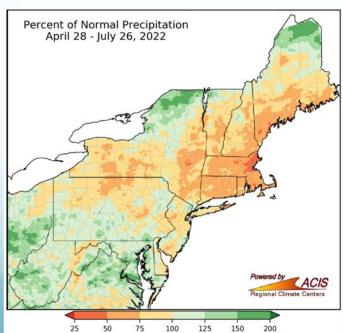


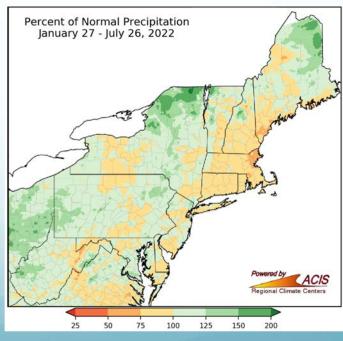


Precipitation

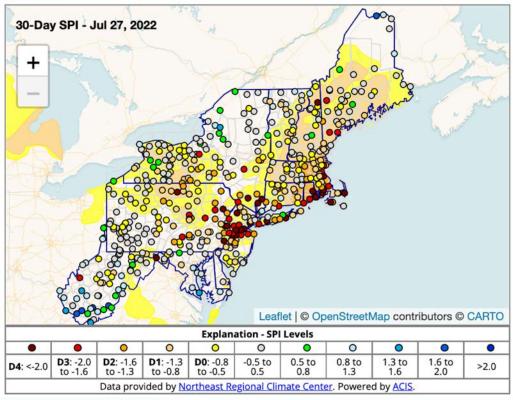




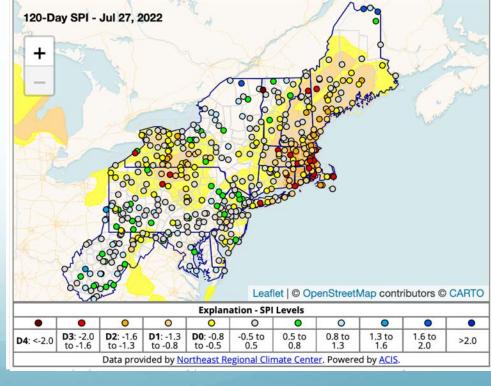






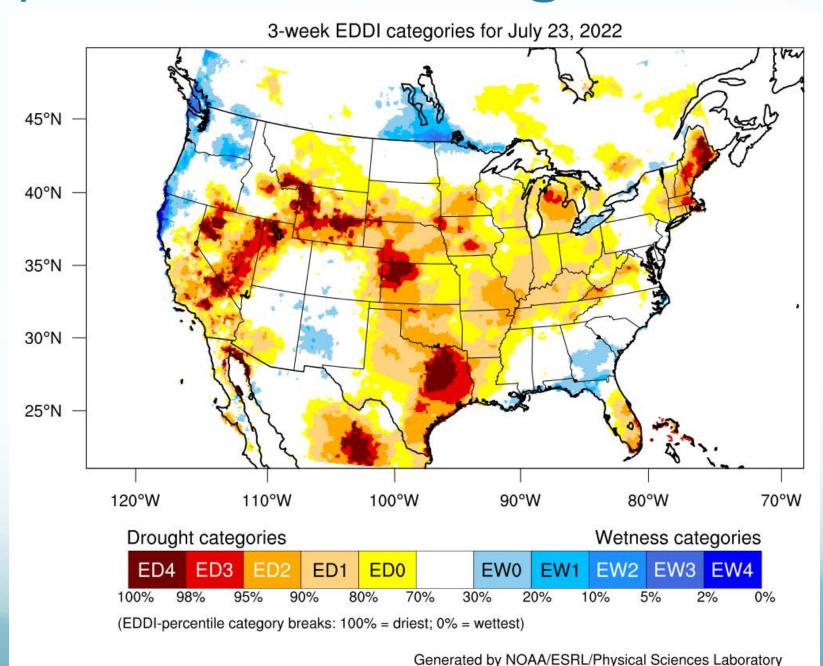


Standardized Precipitation Index





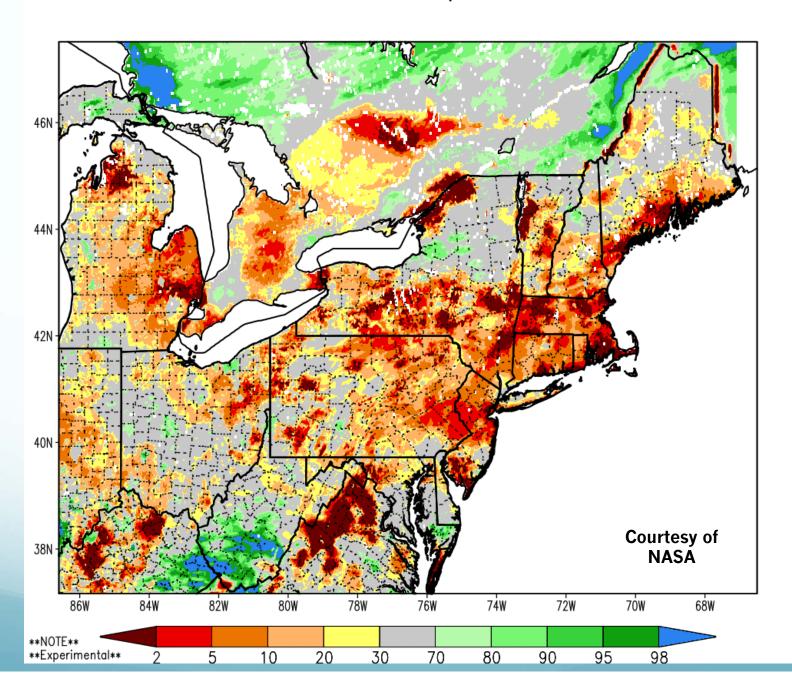
Evap. Demand Drought Index





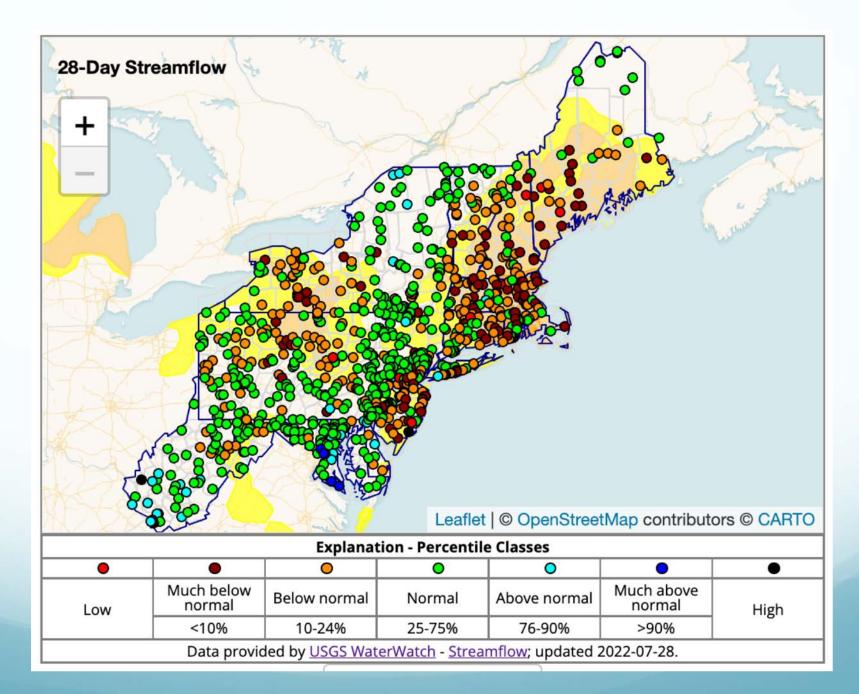
Soil Moisture

SPoRT-LIS 0-100 cm Soil Moisture percentile valid 28 Jul 2022





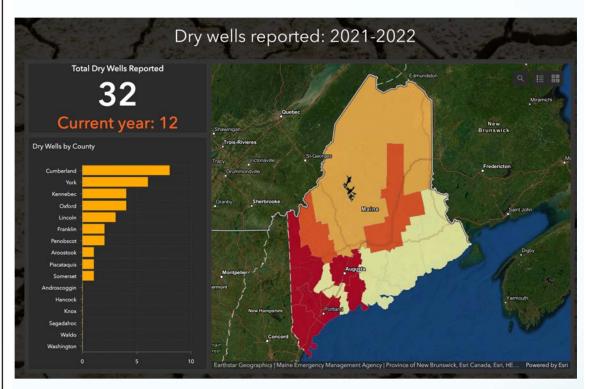
Streamflow





Known Water Use Restrictions Last Update: 7/25/2022 Legend County Boundary Town Boundary **Drought Condition** Abnormally Dry Moderate Drought coos Severe Drought Extreme Drought **Municipality or Water System Status** Voluntary Restriction Mandatory Restriction Environmental Services GRAFTON CARPOLL Drought conditions based on United States Drought Monitor https://droughtmonitor.unl.edu/ Produced by a partnership between: SULLIVAN National Drought Mitigation Center, U.S. Department of Agriculture, & MERRIMACK STRAFFORD National Oceanic and Atmospheric Administration Disclaimer: The status of water use restrictions is based on information submitted to the New Hampshire Department of Environmental Services and may not be comprehensive.

Drought Impacts



https://maine-dry-well-survey-maine.hub.arcgis.com/



Drought Impacts

The Providence Journal

LOCAL

'This field will not bounce back:' Drought has Rhode Island farmers praying for rain





Near Me

CLOSINGS AND DELAYS

VERIFY

GIFT SHOP

FEED MAINE



Farmers like Bob Spear of Spear Farms are turning to drip irrigation to replace natural rain during Maine's lengthy drought.

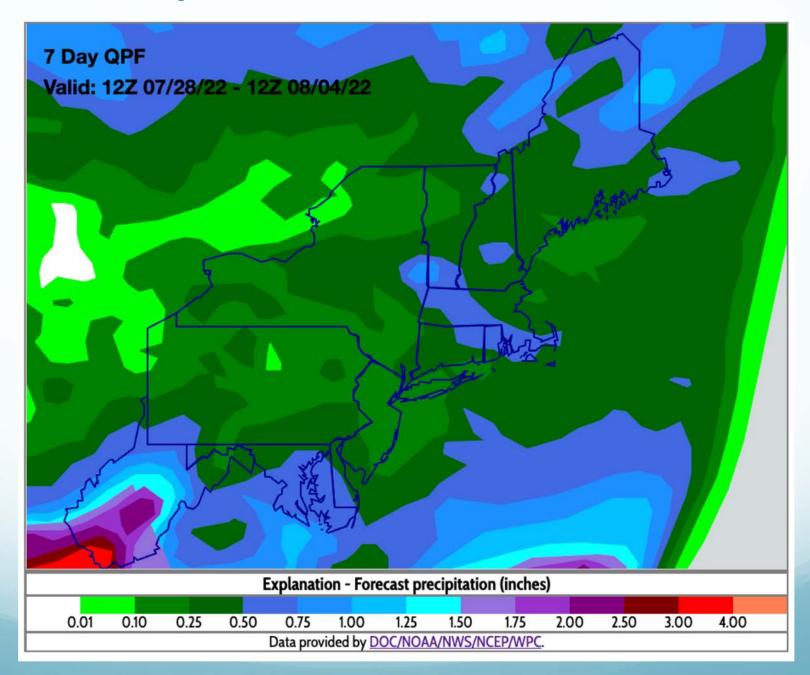


Abnormally dry conditions in Cortland County impact local dairy farmer



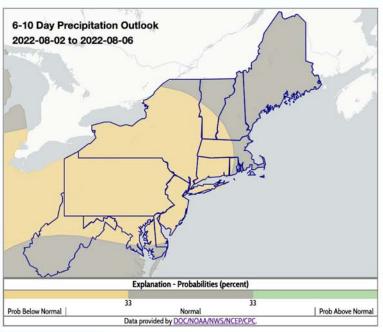
(Emily Kenny/Spectrum News 1)

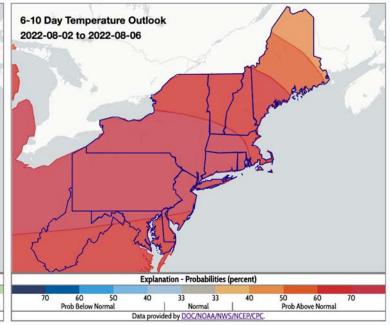
Precipitation Forecast

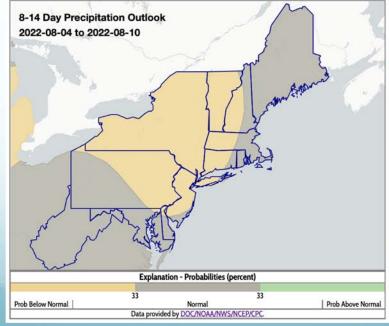


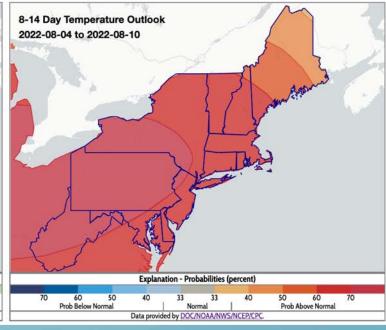


Short-term Outlooks



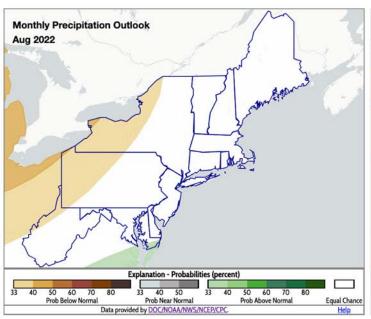


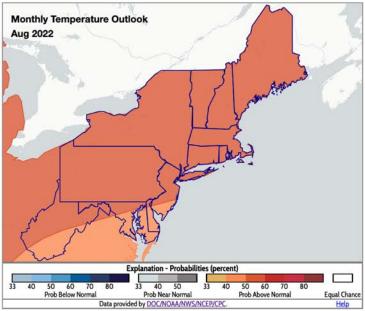


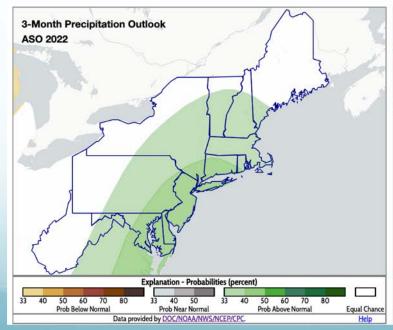


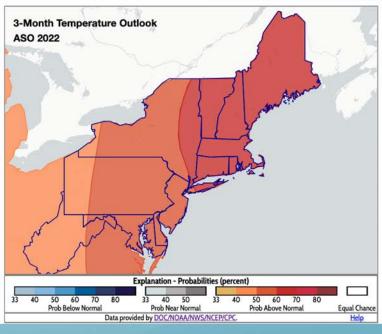


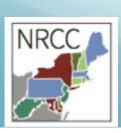
Monthly & 3-Month Outlooks







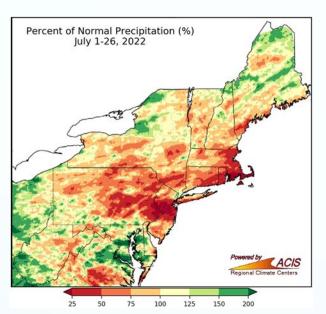




Summary

July-to-date conditions:

- Above-normal temperatures
- Many areas saw below or near normal precipitation but localized heavy rainfall



Drought:

 Drought/dryness expanded and intensified, especially in New England, due to factors such as below-normal rainfall, below-normal streamflow, low soil moisture, and water and ag impacts

Outlooks:

- Short-term outlooks: below- or near-normal precipitation and abovenormal temperatures; drought likely to persist and possibly intensify?
- August and August-October: below-normal rainfall in August for interior areas; above-normal rainfall for Aug-Oct for about half the region closer to the coast; above-normal temperatures for all



Drought Resources

Northeast Drought Early Warning Update













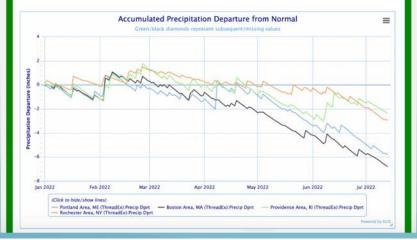
July 15, 2022

Drought Early Warning Update for the **Northeast**

Drought Intensifies and Expands as Streamflow **Declines and Crops are Stressed**

Key Points

- · Severe Drought (D2) developed in northeastern Massachusetts and a small portion of southern New Hampshire
- . Moderate Drought (D1) expanded in coverage across most of New England and emerged in western New York
- · Abnormally Dry conditions (D0) expanded significantly to include most of New England and western and central New York
- · Abnormally Dry conditions (D0) also expanded in southeastern New York state - including New York City







Northeast DEWS Dashboard



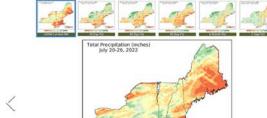


Drought Status Update

mess expanded in central New York. The deterioration was due to factors ich as helpw.normal precipitation; reduced streamflow and encurrences







0.01 0.25 0.50 1.00 1.50 2.00 3.00 4.00













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

Contact Information

nrcc@cornell.edu

Upcoming Webinars

- Tuesday, August 30 at 9:30am
 - Atlantic Hurricane Season Update and Outlook
- Thursday, September 29 at 9:30am
 - Seasonal Bird Migration



www.nrcc.cornell.edu