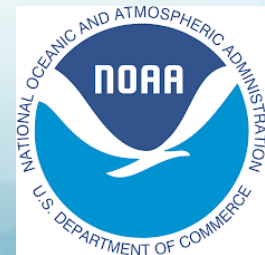


July Recap & Northeast DEWS Discussion

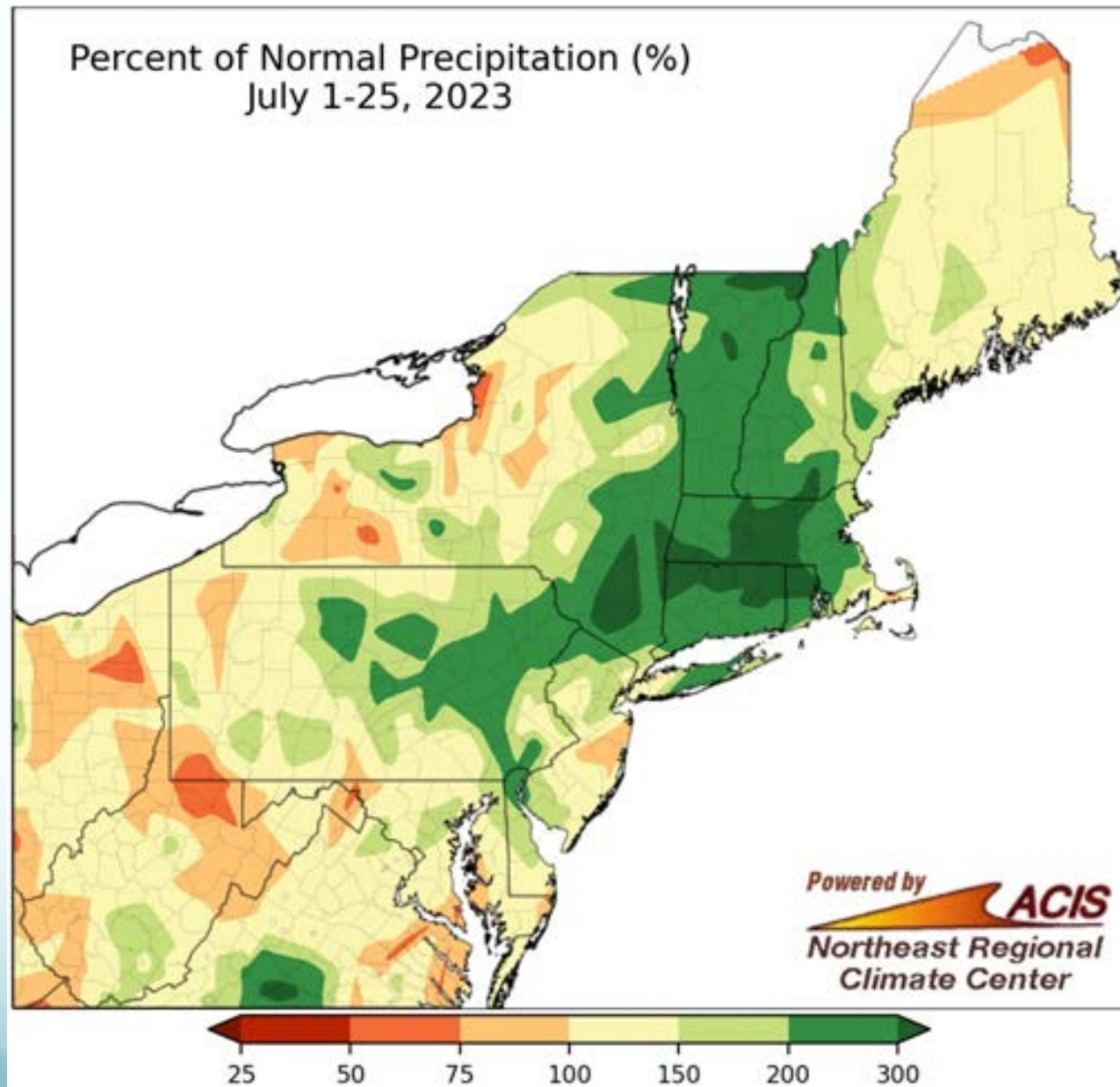
By: Samantha Borisoff, Climatologist
Northeast Regional Climate Center



Northeast Regional
Climate Center



July Precipitation

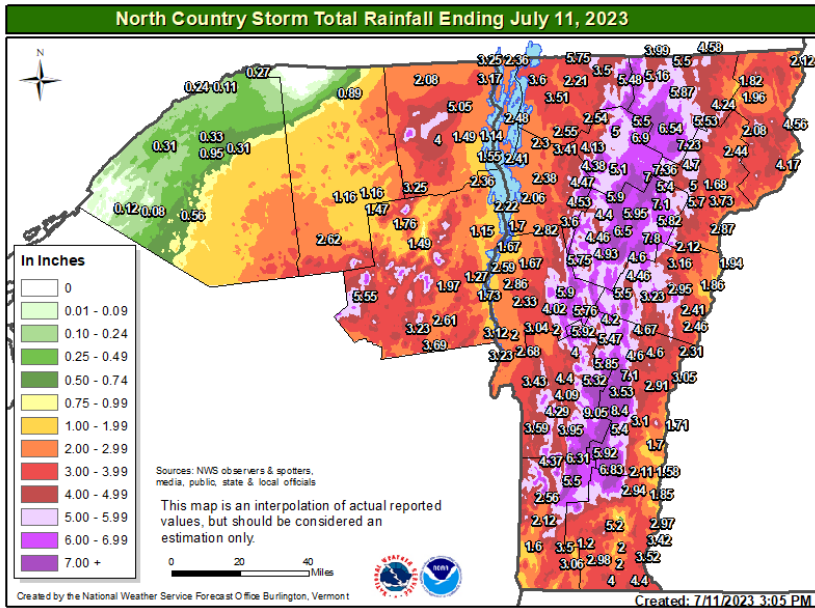


From 50% of normal to more than 300% of normal

July Precipitation

Station	July 1-25, 2023 Precipitation (in.)	Normal month of July (in.)	July Rank as of July 25 (wettest)
Hartford, CT	12.43	4.17	1
Albany, NY	10.06	4.55	1
Worcester, MA	11.50	3.93	2
Williamsport, PA	9.68	4.64	2
Providence, RI	7.59	2.91	3
Islip, NY	6.74	3.26	3
Bridgeport, CT	6.73	3.32	6
Boston, MA	7.13	3.27	7
Wilmington, DE	8.07	4.41	9
Rochester, NY	5.91	3.56	10
Binghamton, NY	5.68	3.80	12
Dulles Airport, VA	4.64	4.15	19
Scranton, PA	5.97	3.61	20
Portland, ME	5.24	3.43	20





July Extreme Rainfall

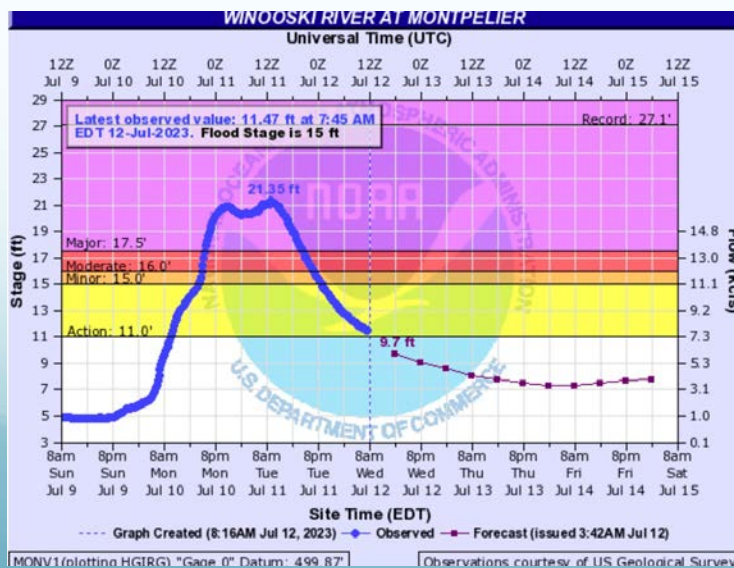


Courtesy of Vermont Agency of Agriculture via Twitter

Maximum 2-Day Total Precipitation for Vermont

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

Name	Station Type	Value	Ending Date	Missing Days
MIDDLESEX 3.1 ENE	CoCoRaHS	8.03	2023-07-11	0
EAST RYEGATE	COOP	7.91	1938-07-31	0
BLOOMFIELD	COOP	7.86	1931-07-22	0
WOODBURY 1.3 NNW	CoCoRaHS	7.72	2023-07-11	0
NORTHFIELD 1.5 N	CoCoRaHS	7.61	2023-07-11	0
BERLIN 4.3 WNW	CoCoRaHS	7.54	2023-07-11	0
NORTHFIELD 1.2 NNE	CoCoRaHS	7.49	2023-07-11	0



Courtesy of NOAA



July Extreme Rainfall



Courtesy of New York State Department of Homeland Security (above) and New York State Department of Transportation (right) via Twitter



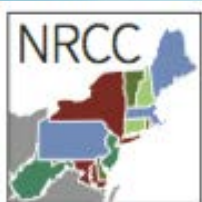
Flash flooding strikes western Massachusetts again

Flash flooding continued Tuesday, bringing more heavy rainfall, to an already very saturated western Massachusetts.



Five Dead in Flash Flooding in Philadelphia Suburbs

Fierce thunderstorms, heavy rainfall and flash flooding wreaked havoc across the Northeast over the weekend, killing five people in...



Murphy declares state of emergency due to N.J. flooding, landslides

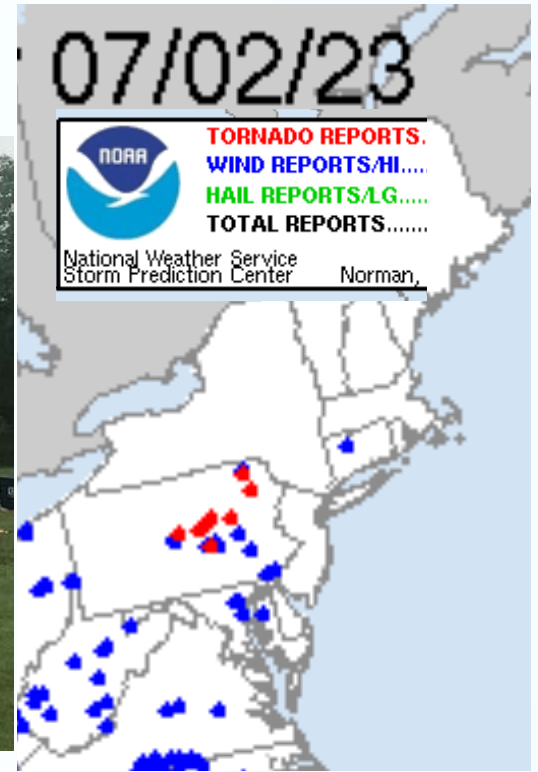
Gov. Phil Murphy declared a state of emergency in New Jersey on Sunday due severe weather that's led to flash flooding, downed trees and...



Many roads remain closed in central NH following Sunday's flooding

Many roads across central New Hampshire remain closed on Monday morning a day after major floods impacted the state. Flash flood warnings...

July Severe Weather



Courtesy of
NWS CTP

Courtesy of
NWS BGM

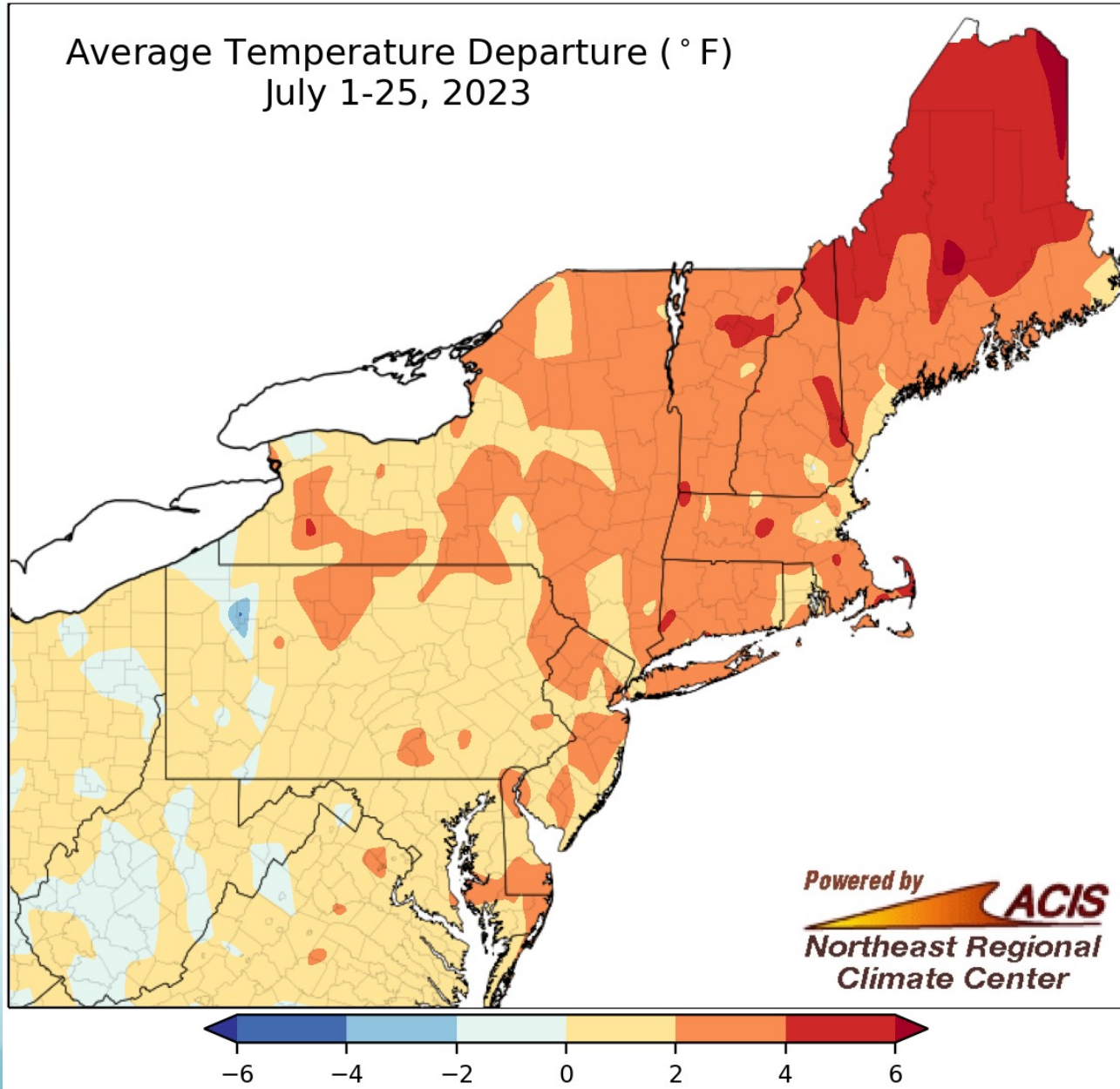


Courtesy of
NWS PHI



July Temperatures

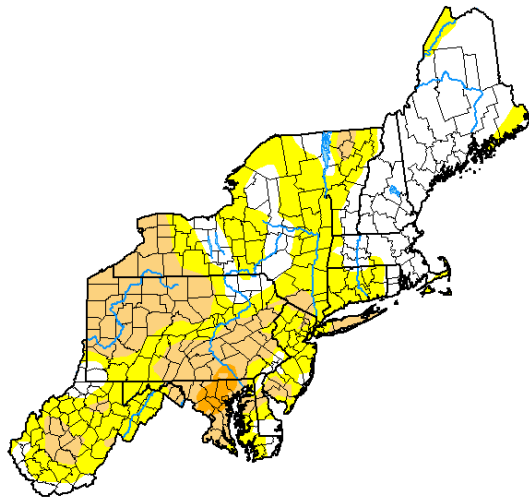
Average Temperature Departure (°F)
July 1-25, 2023



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

Drought Monitor

U.S. Drought Monitor Northeast



June 27, 2023

(Released Thursday, Jun. 29, 2023)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	34.94	39.89	23.80	1.37	0.00	0.00
Last Week 06-20-2023	28.52	37.35	32.61	1.52	0.00	0.00
3 Months Ago 03-28-2023	92.34	6.36	1.30	0.00	0.00	0.00
Start of Calendar Year 01-03-2023	90.64	9.16	0.21	0.00	0.00	0.00
Start of Water Year 09-27-2022	69.23	17.83	9.11	3.70	0.14	0.00
One Year Ago 06-28-2022	70.69	21.85	7.46	0.00	0.00	0.00

Intensity



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>

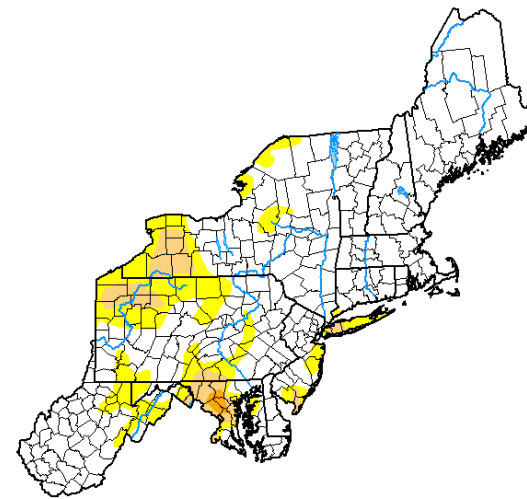
Author:

Curtis Riganti
National Drought Mitigation Center



droughtmonitor.unl.edu

U.S. Drought Monitor Northeast



July 25, 2023

(Released Thursday, Jul. 27, 2023)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	78.89	15.43	5.27	0.40	0.00	0.00
Last Week 07-18-2023	71.91	18.96	8.56	0.57	0.00	0.00
3 Months Ago 04-25-2023	72.19	21.66	6.15	0.00	0.00	0.00
Start of Calendar Year 01-03-2023	90.64	9.16	0.21	0.00	0.00	0.00
Start of Water Year 09-27-2022	69.23	17.83	9.11	3.70	0.14	0.00
One Year Ago 07-26-2022	50.54	28.39	18.28	2.80	0.00	0.00

Intensity



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:

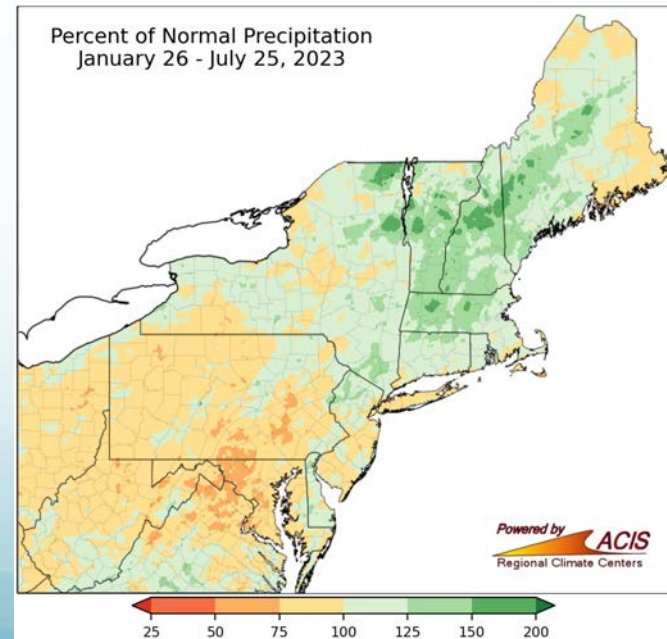
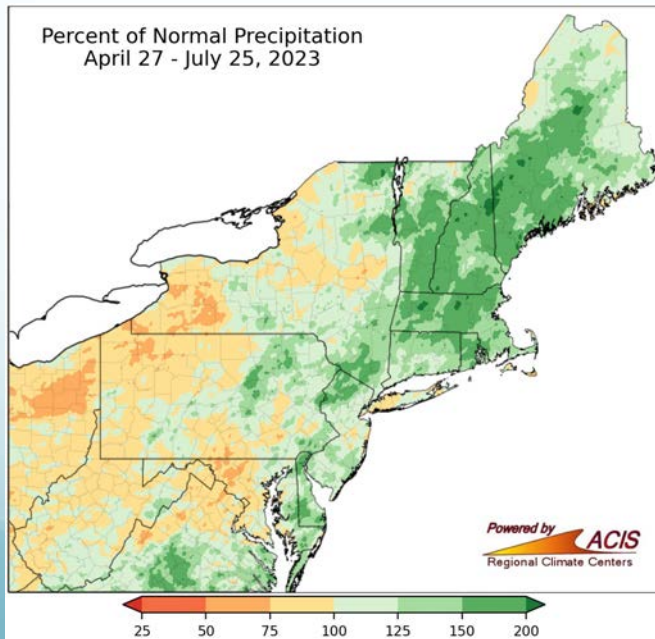
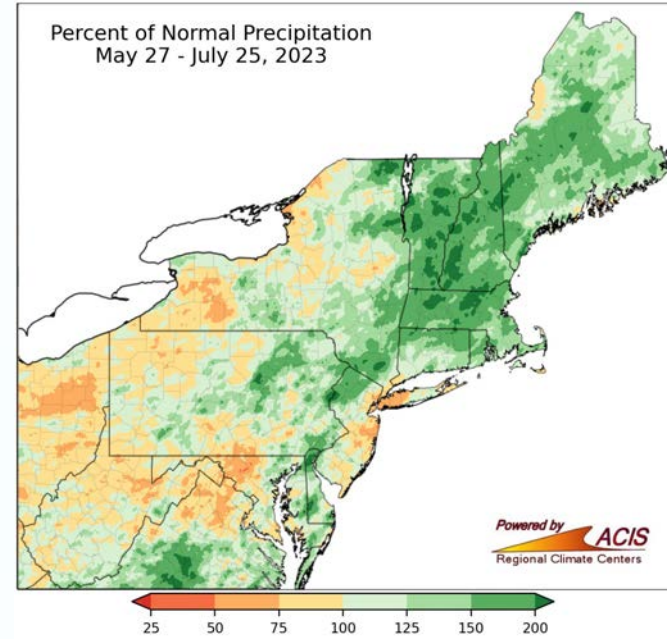
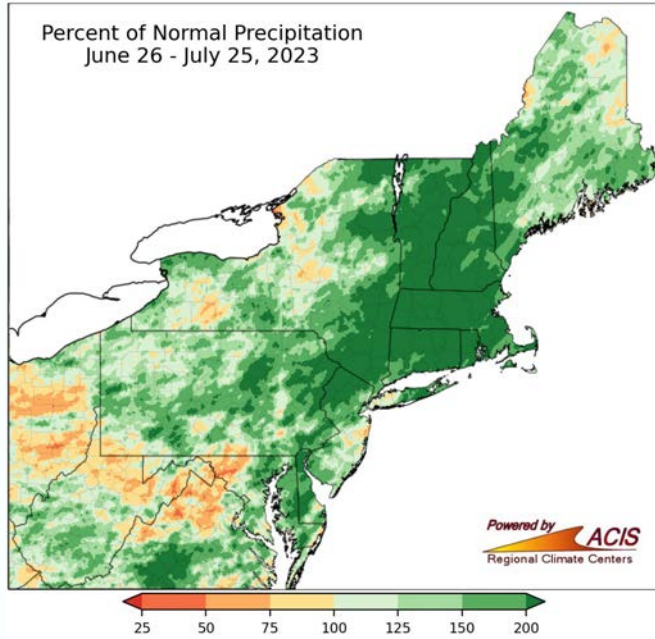
Brian Fuchs
National Drought Mitigation Center



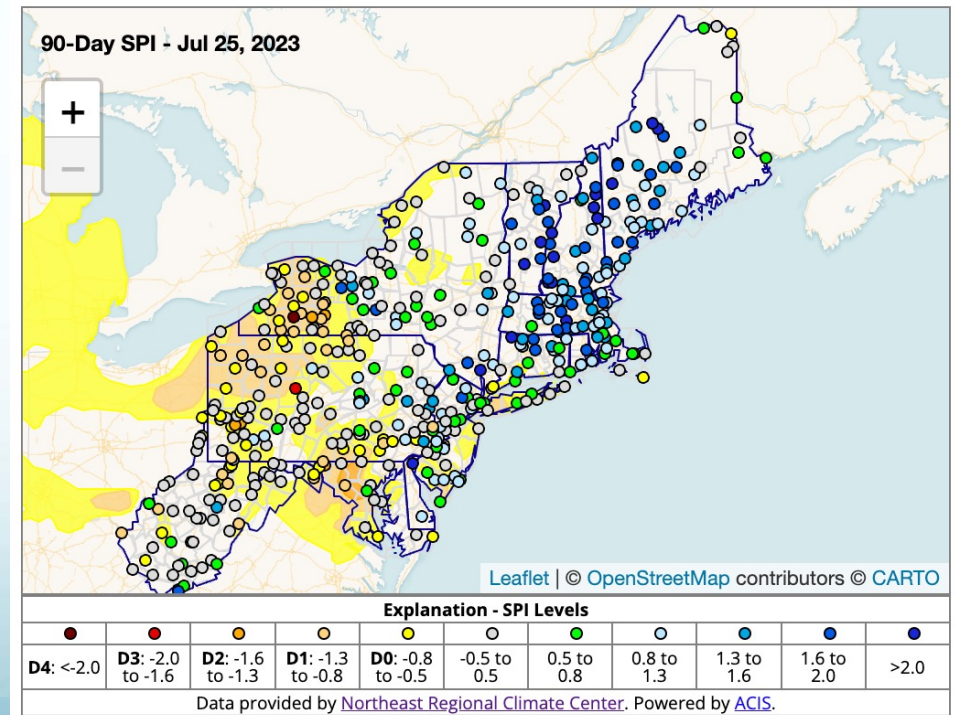
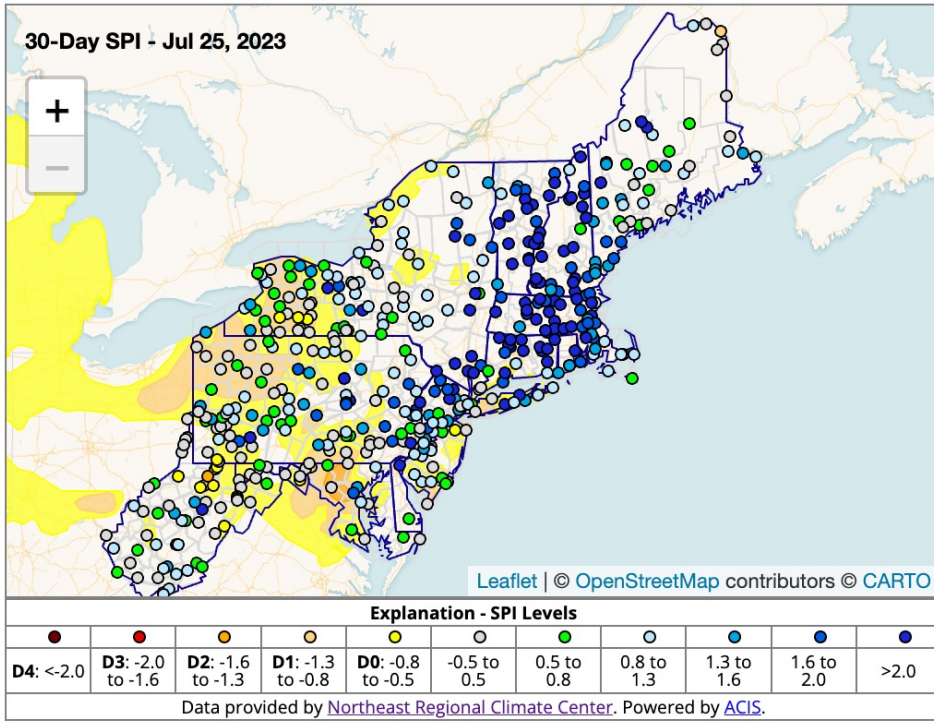
droughtmonitor.unl.edu



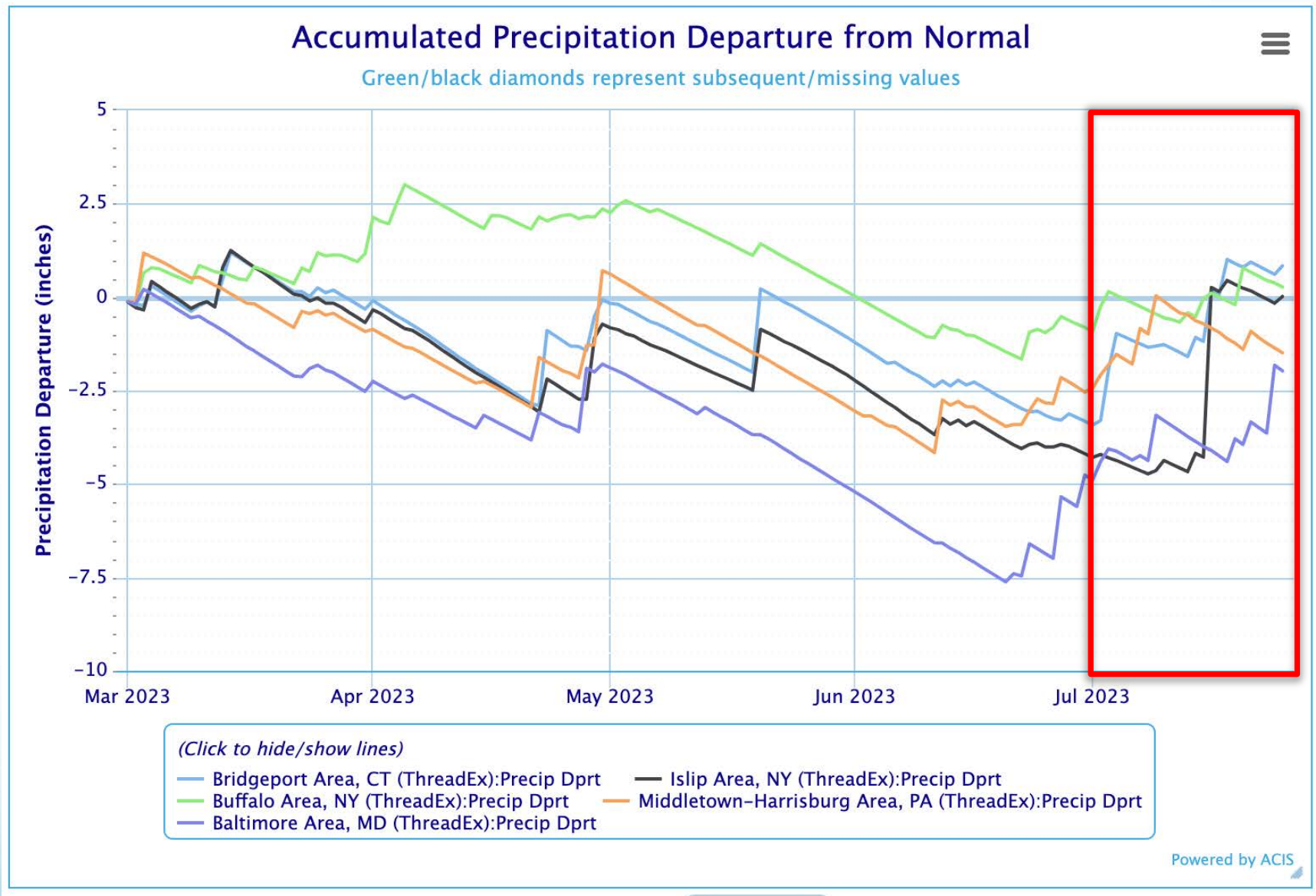
Precipitation



Standardized Precipitation Index

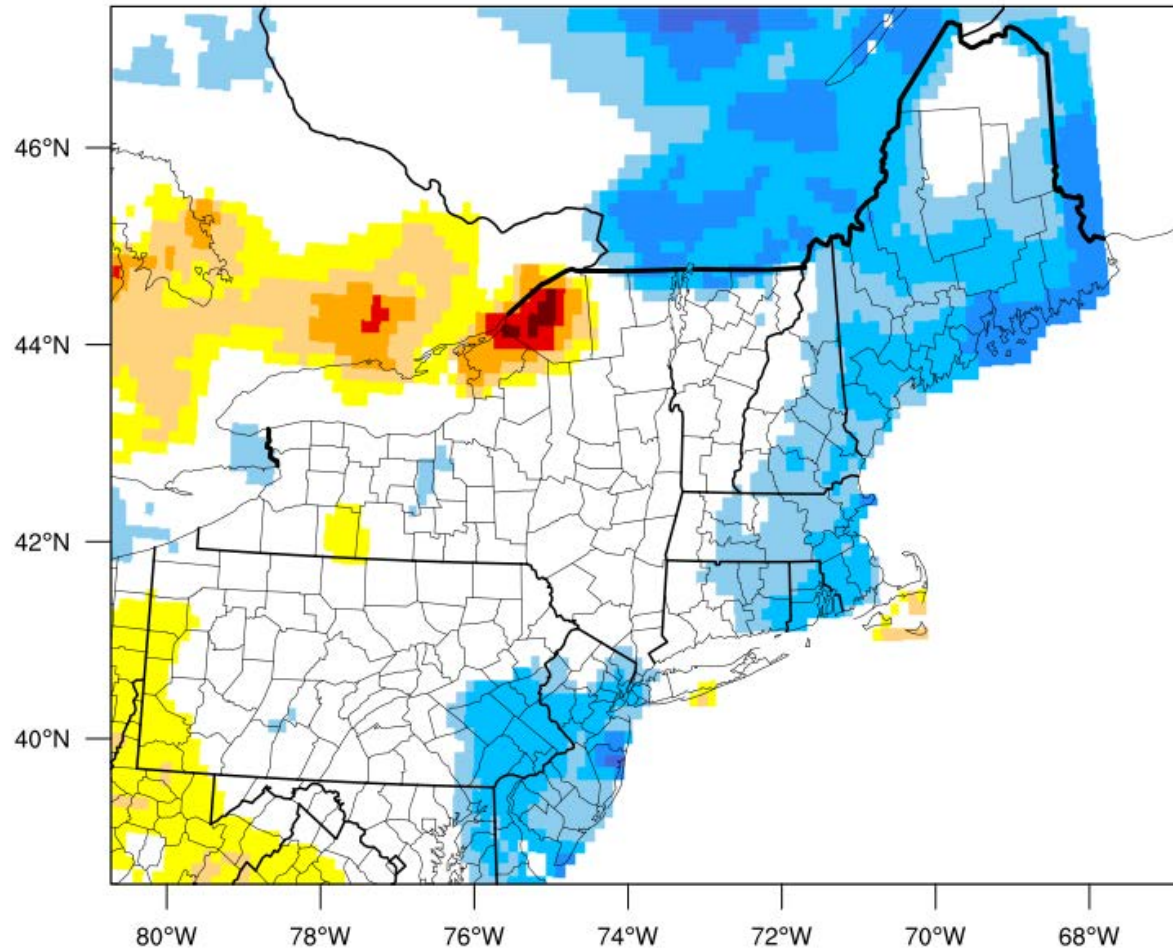


Precipitation



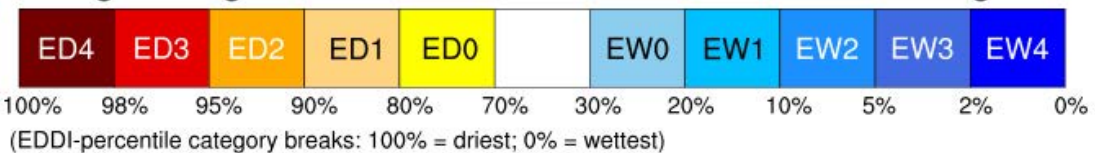
Evap. Demand Drought Index

3-week EDDI categories for July 21, 2023



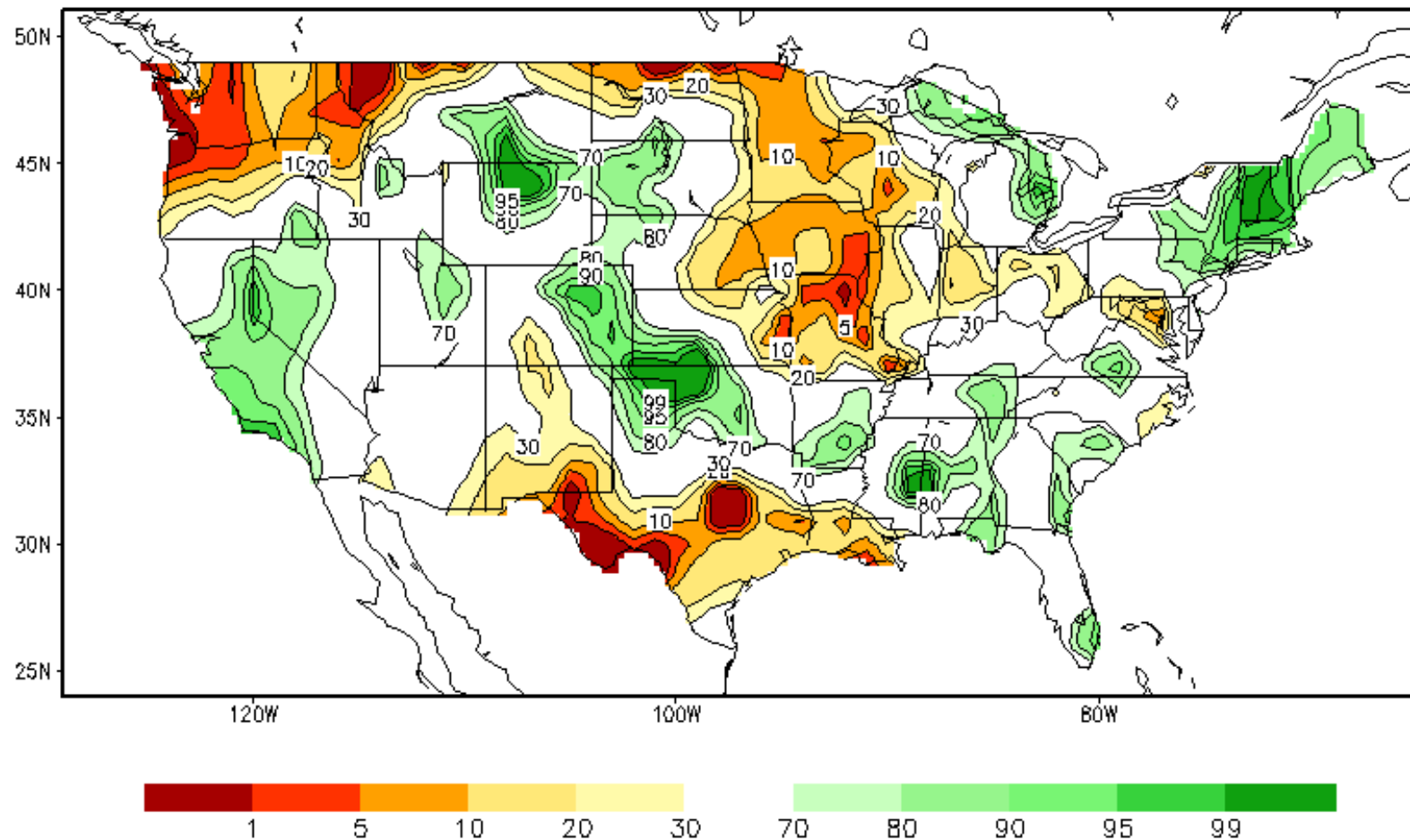
Drought categories

Wetness categories



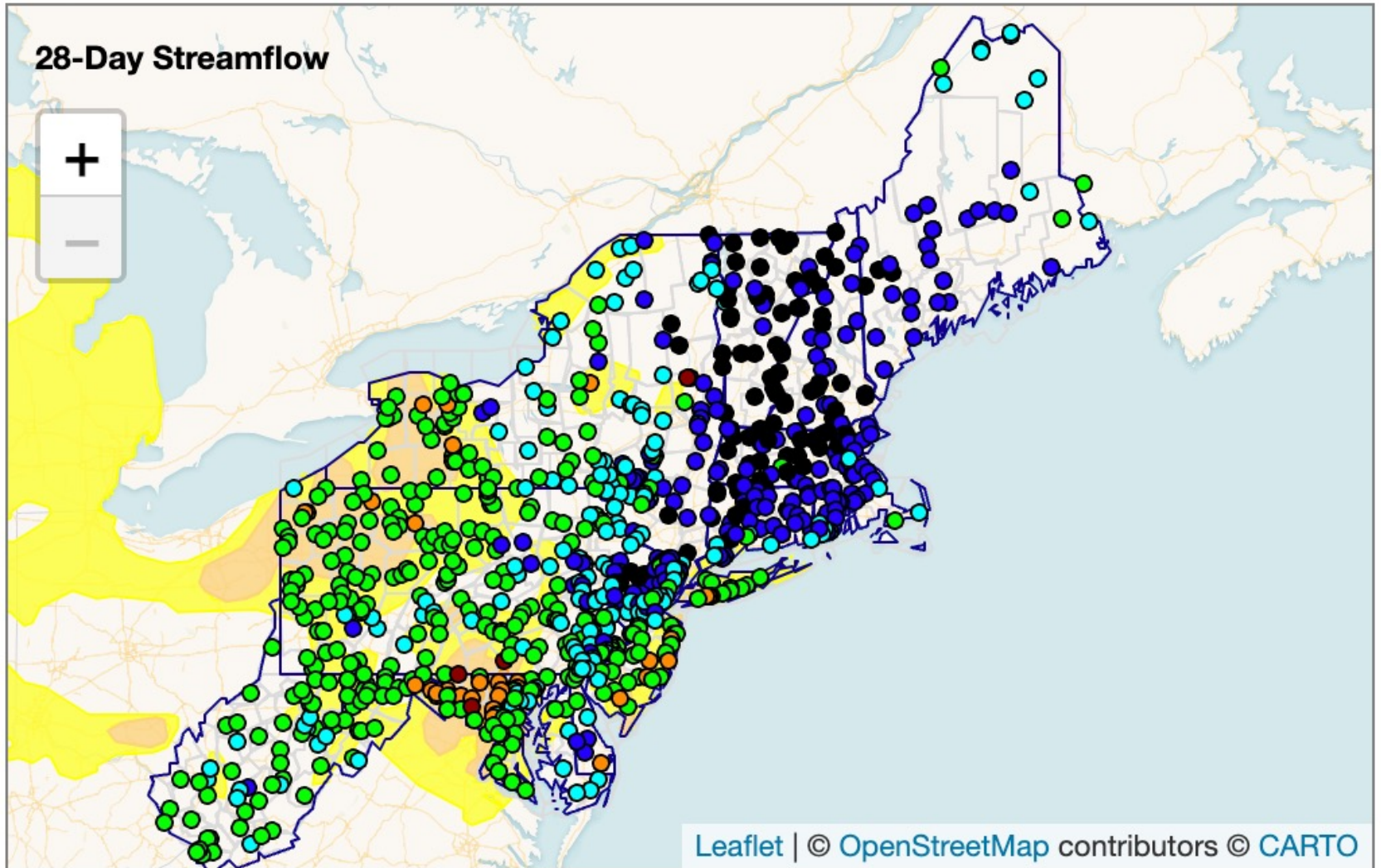
Soil Moisture

Calculated Soil Moisture Ranking Percentile
JUL 24, 2023



Courtesy of
NOAA CPC

Streamflow



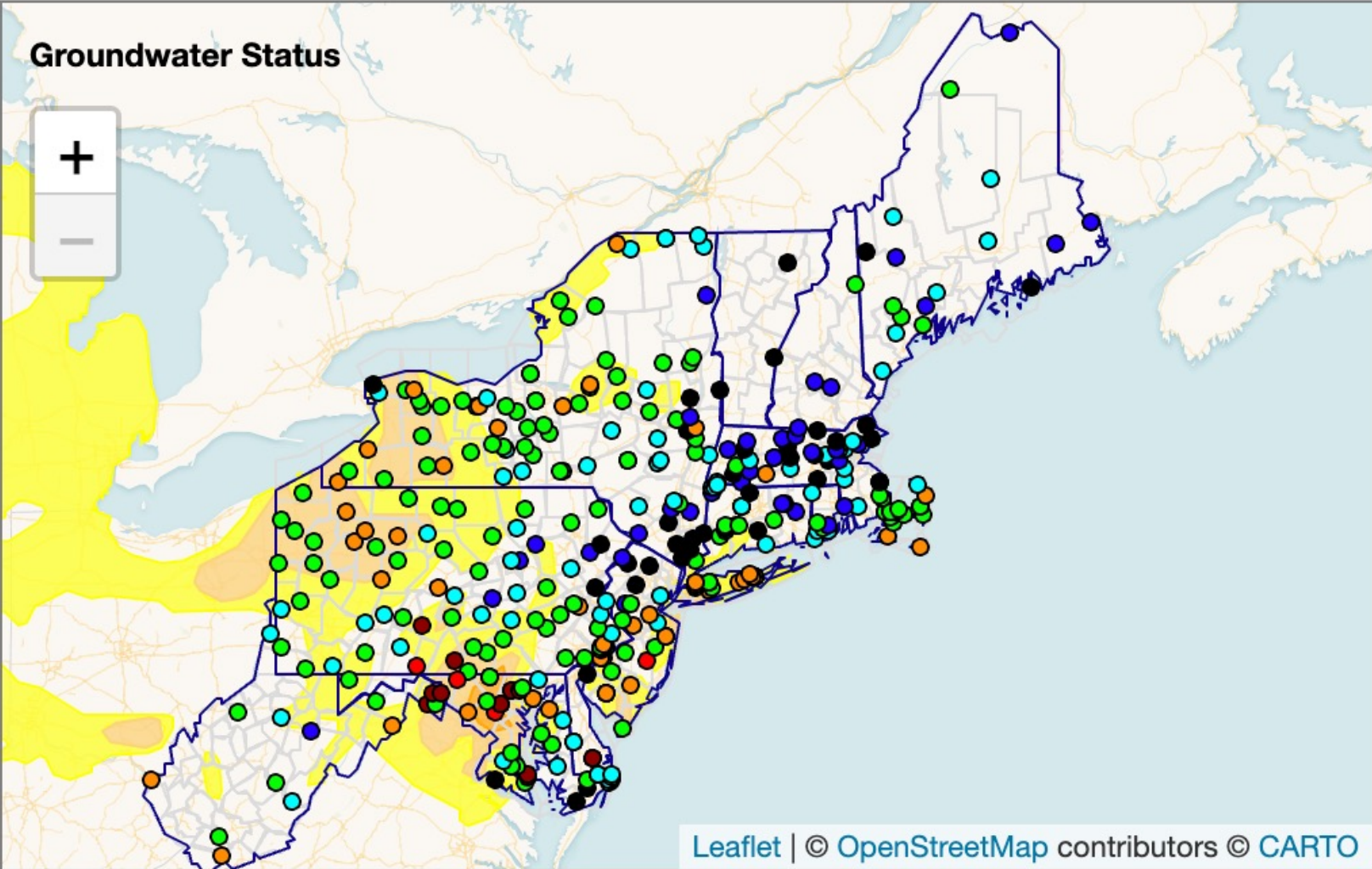
Explanation - Percentile Classes

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 WaterWatch - Streamflow](#); updated 2023-07-26.



Groundwater



Explanation - Percentile Classes

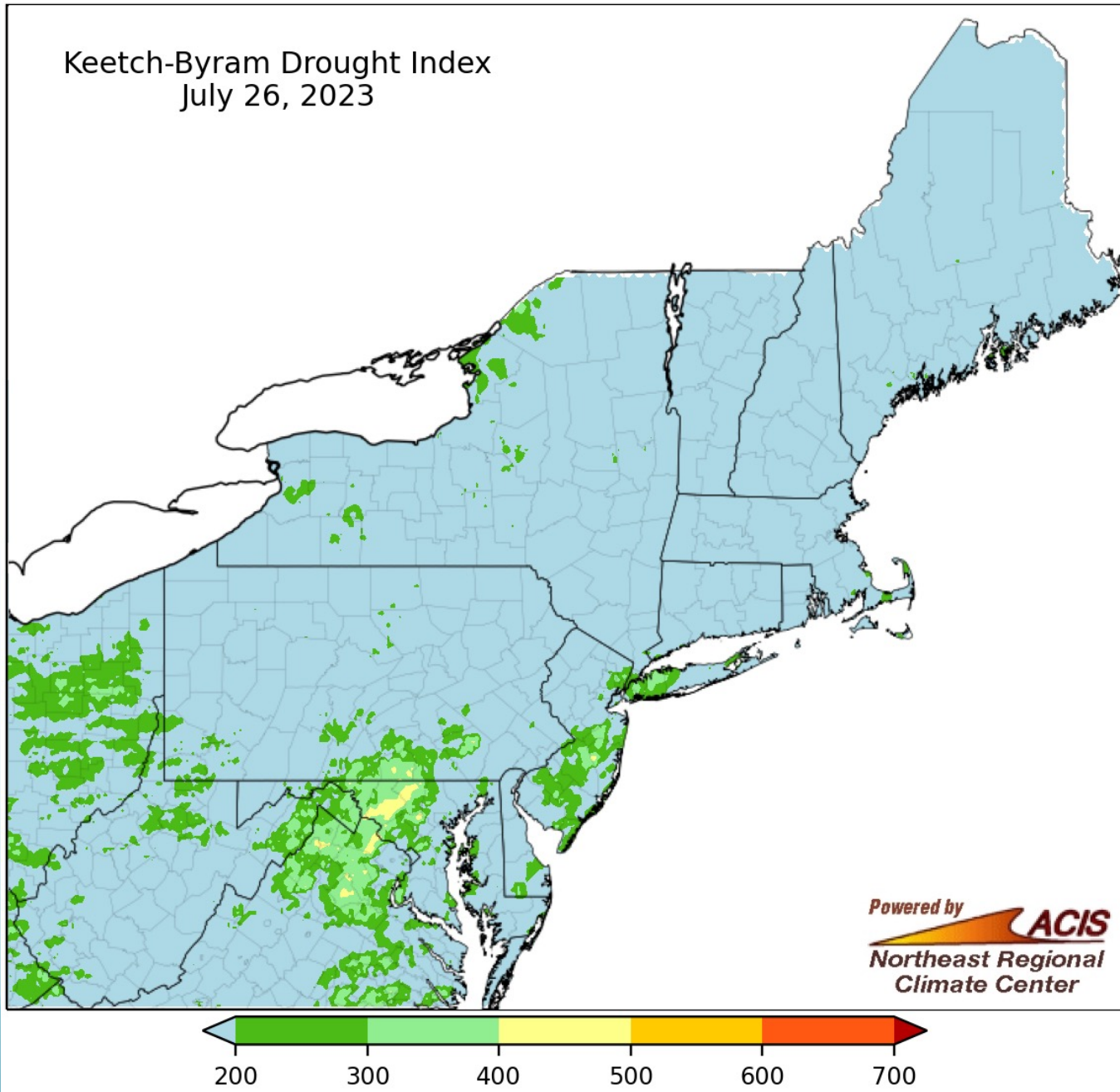
Low	Much below normal	Below normal	Normal	Above normal	Much above normal	High	
	<10%	10-24%	25-75%	76-90%	>90%		

Data provided by [USGS Groundwater](#) - [About this map](#); updated 2023-07-27.

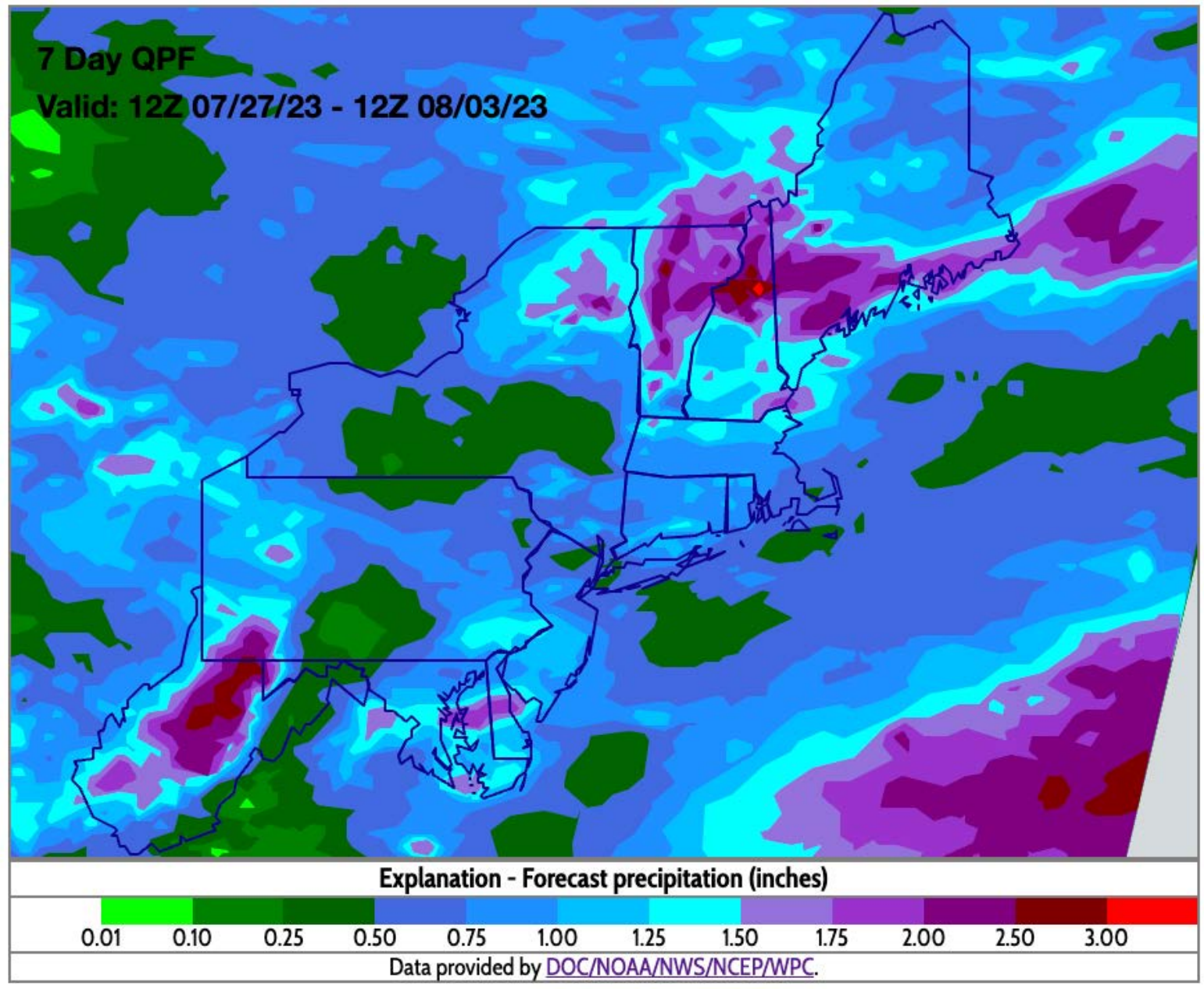


Wildfire Risk

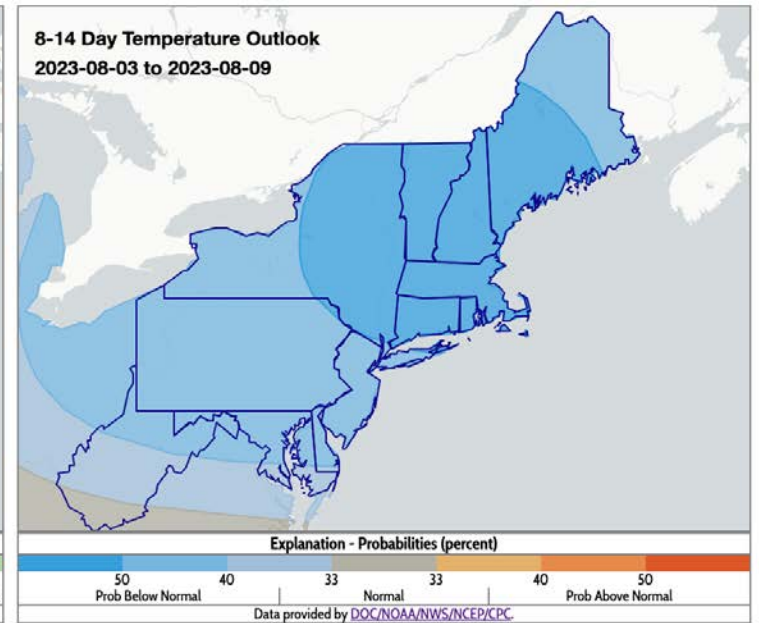
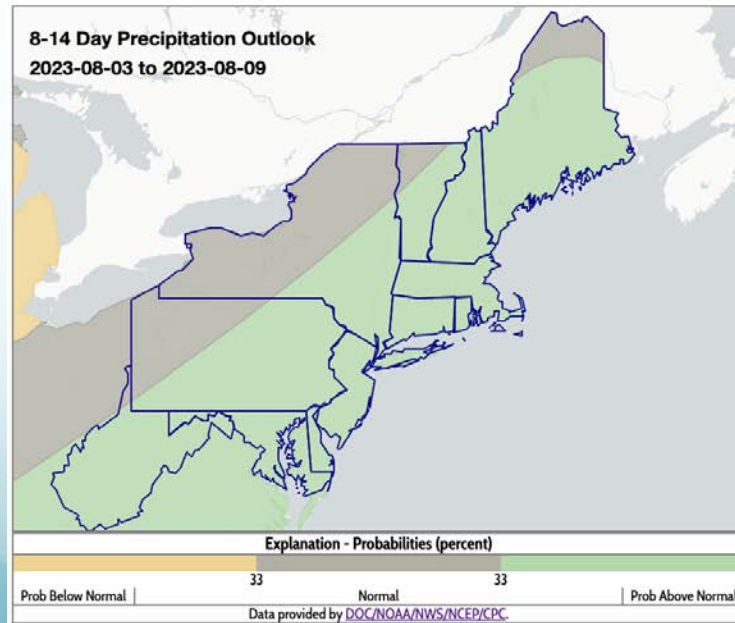
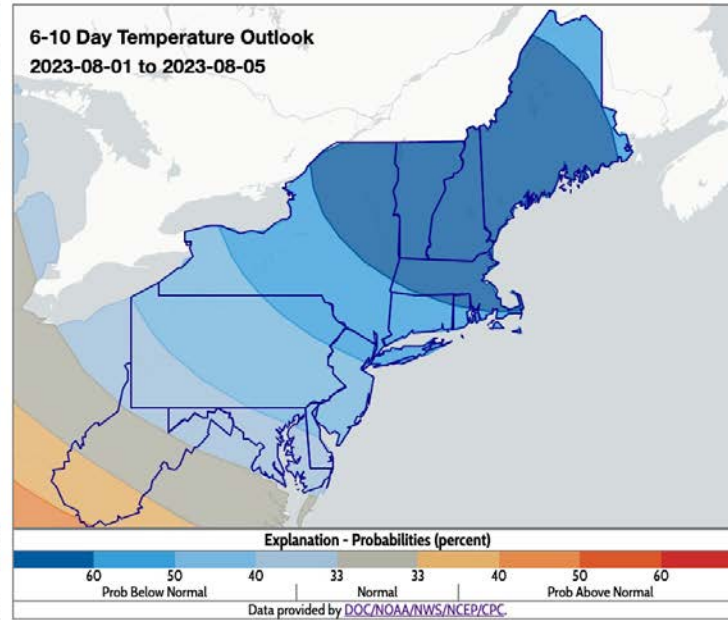
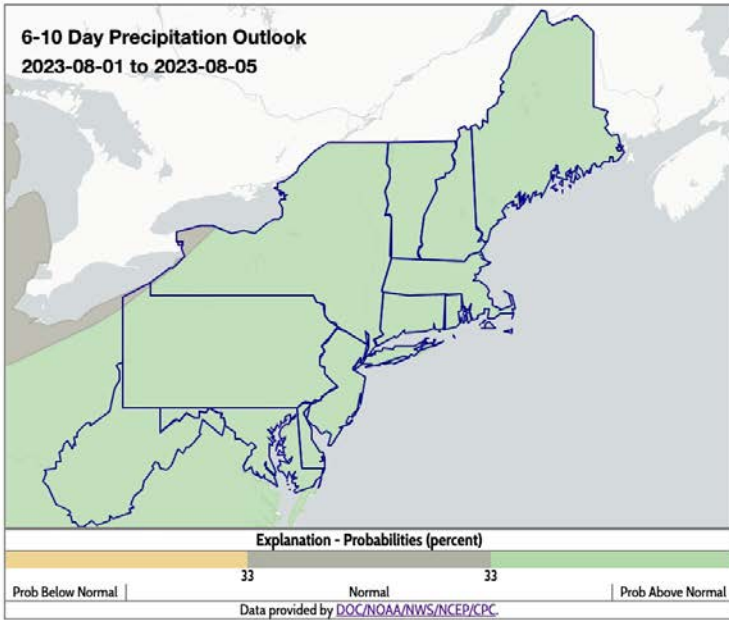
Keetch-Byram Drought Index
July 26, 2023



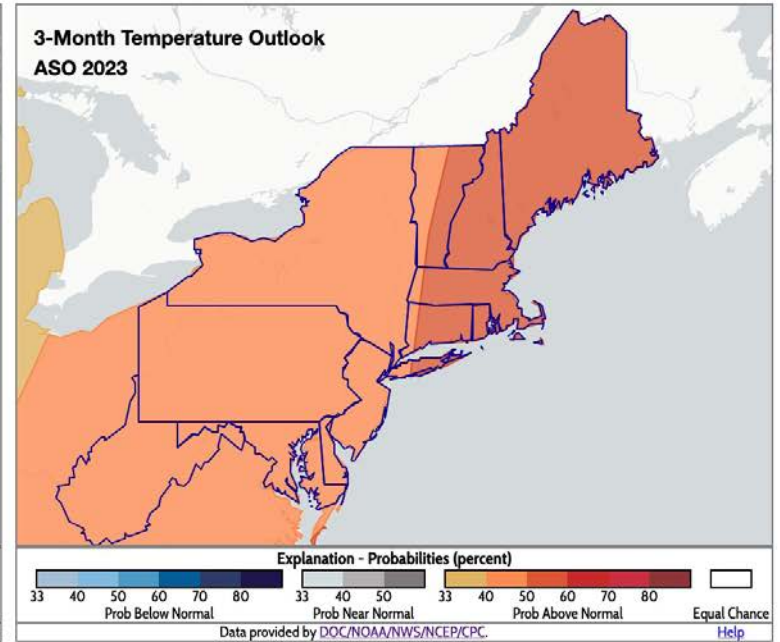
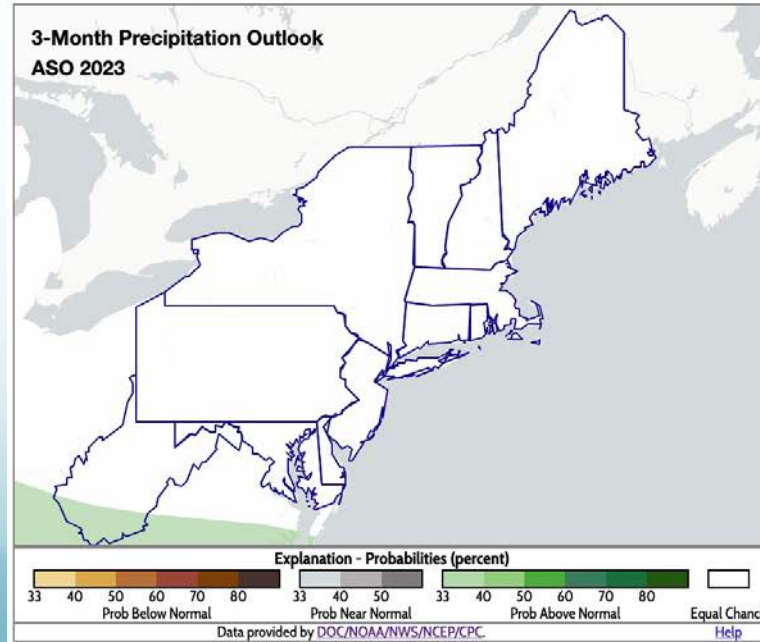
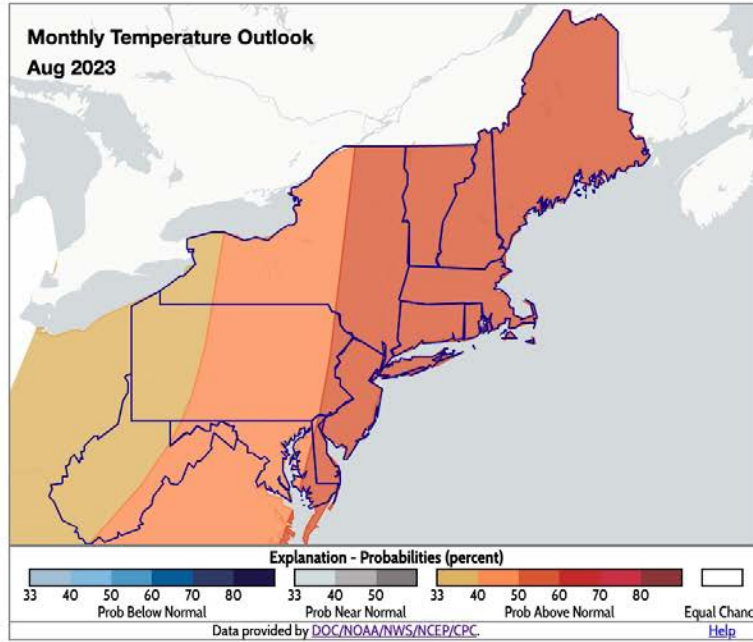
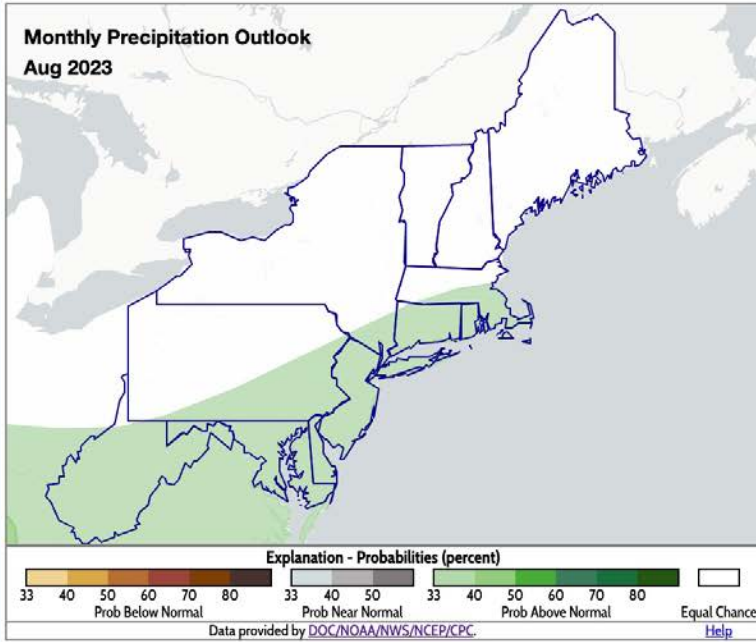
Precipitation Forecast



Short-term Outlooks



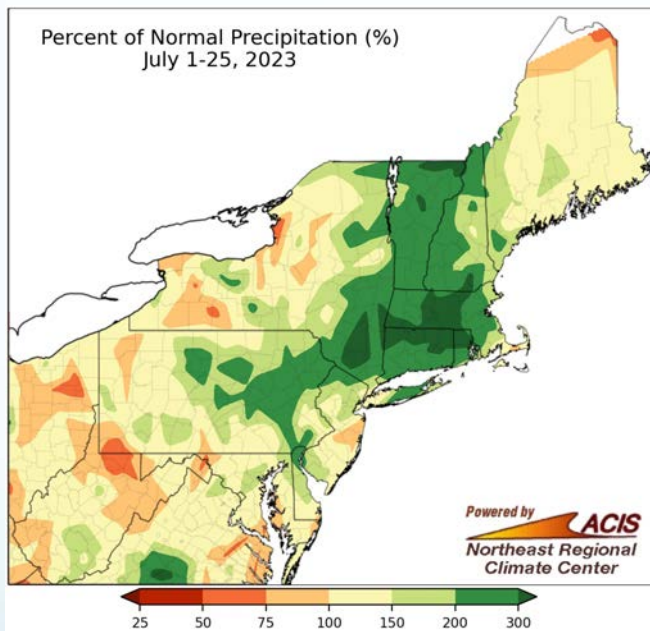
Monthly & 3-Month Outlooks



Summary

July-to-date conditions:

- Near- or above-normal temperatures
- Near- or above-normal precipitation for most; multiple areas experienced extreme rainfall and flash flooding



Drought:

- Drought and dryness contracted in many areas but persisted in areas such as central Maryland, northwestern Pennsylvania, and western New York

Outlooks:

- Short-term: favor near- or above-normal precipitation and below- or near-normal temperatures
- August: Some southern and coastal areas could be wet; above-normal temperatures for all
- August-October: Equal chances precipitation for most but tilt toward wet for southern WV; above-normal temperatures for all



Contact Information

- nrcc@cornell.edu

Upcoming Webinars

- Thursday, August 31 at 9:30am EDT
 - Hurricane Season Update and Outlook
- Thursday, September 28 at 9:30am EDT
 - The Role of the State Climatologist Office – NJ & MD



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