

June Conditions & Northeast DEWS Discussion

By: Samantha Borisoff, Climatologist
Northeast Regional Climate Center



Northeast Regional
Climate Center



June 17-23 Heat

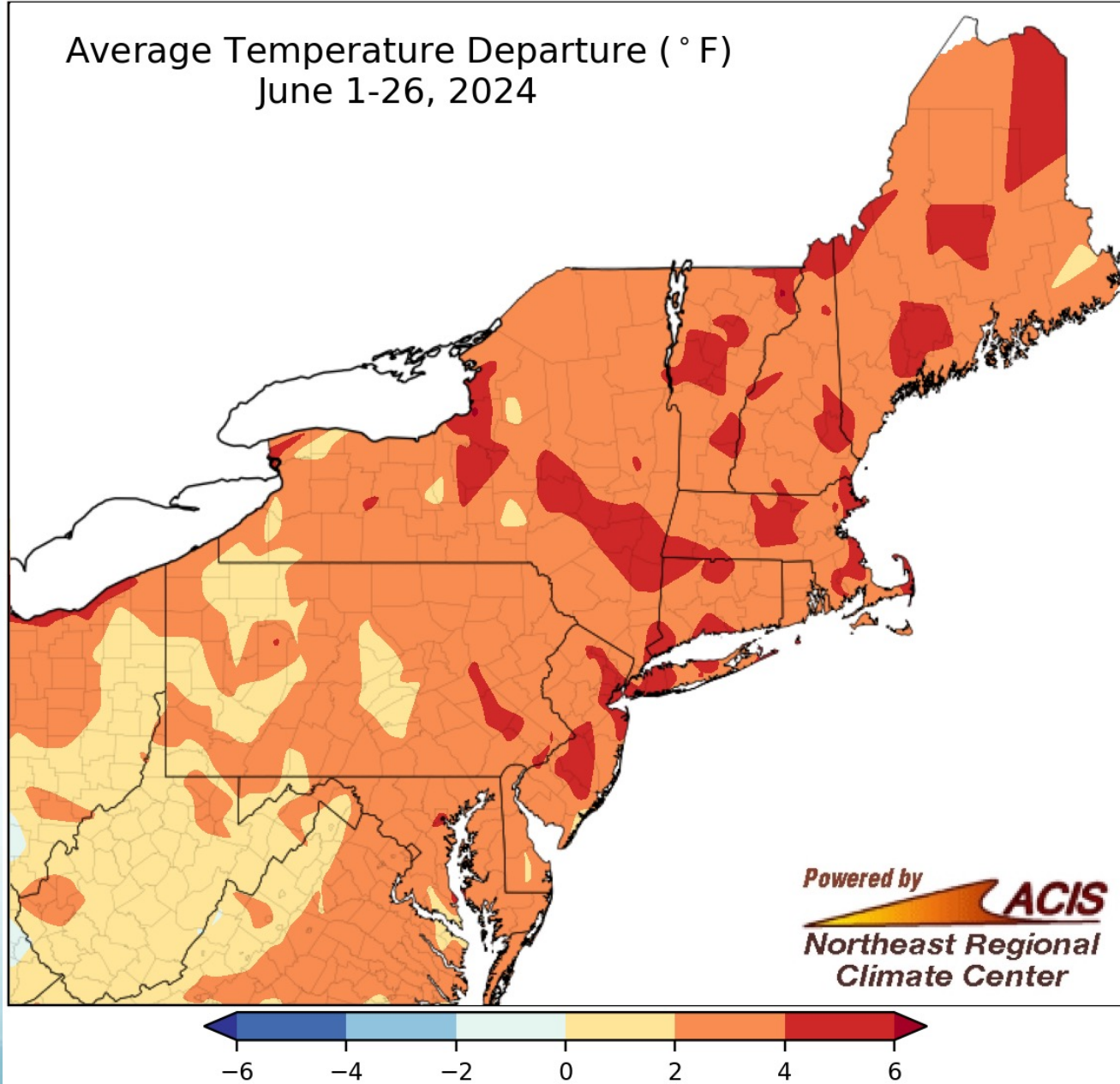
Station	June Date	New Record High Temp (°F)	Rank (hottest for June)
Allentown, PA	22	98	6
Atlantic City, NJ	22	98	7
Atlantic City, NJ	23	98	7
Baltimore, MD	22	101	3
Boston, MA	19	98	6
Burlington, VT	19	96	5
Caribou, ME	18	92	10
Caribou, ME	19	96	1
Dulles Airport, VA	22	100	2
Dulles Airport, VA	23	98	7
Elkins, WV	18	92	10
Harrisburg, PA	22	99	4
Hartford, CT	20	98	4
Scranton, PA	21	97	4
Washington, D.C.	22	100	10

Station	June Date	New Record Warm Low Temp (°F)	Rank (hottest for June)
Albany, NY	19	76	2
Atlantic City, NJ	23	75	6
Baltimore, MD	23	81	3
Binghamton, NY	19	72	3
Binghamton, NY	20	71	5
Bridgeport, CT	22	72	7
Buffalo, NY	19	76	2
Buffalo, NY	22	74	8
Burlington, VT	19	80	1
Caribou, ME	19	71	1
Caribou, ME	20	67	10
Dulles Airport, VA	22	75	2
Dulles Airport, VA	23	78	1
Harrisburg, PA	22	76	5
Harrisburg, PA	23	76	5
Huntington, WV	23	75	5
Newark, NJ	22	77	10
Portland, ME	20	71	6
Rochester, NY	19	74	3
Scranton, PA	23	74	4
Syracuse, NY	19	77	2
Washington, D.C.	23	81	2
Wilmington, DE	23	75	10



June Temperatures

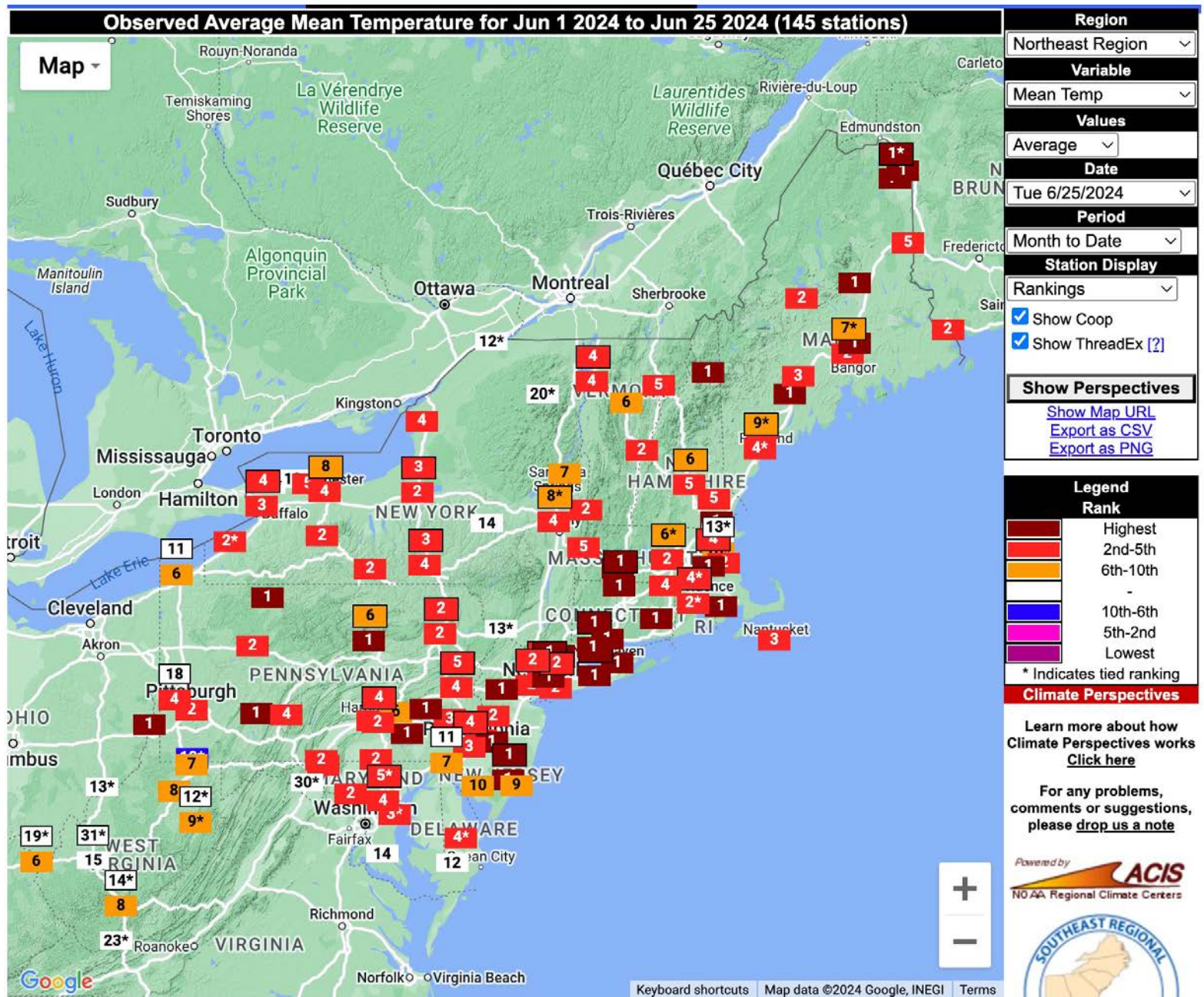
Average Temperature Departure (°F)
June 1-26, 2024



From near normal to 6°F above normal

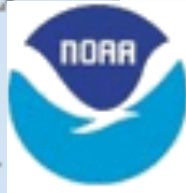
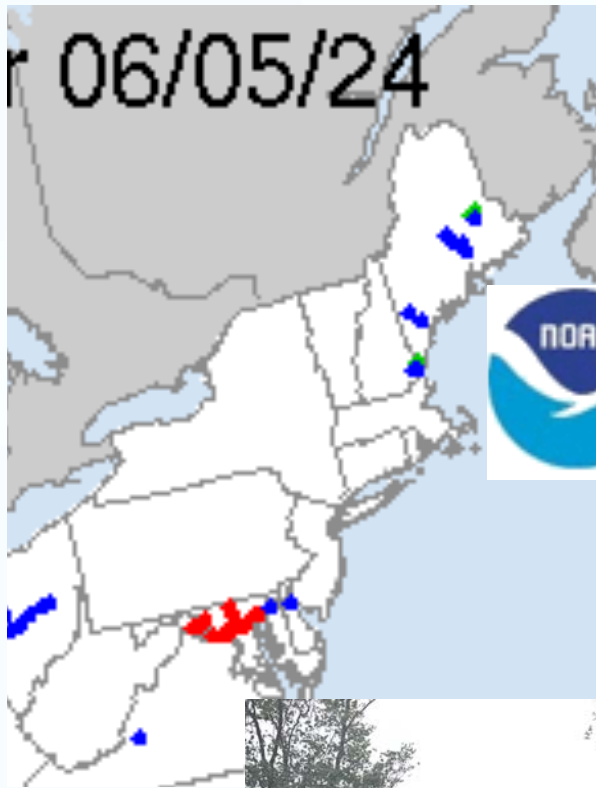


June Temperatures



Created by and hosted at the [Southeast Regional Climate Center](#).

June Storms



TORNADO REPORTS...
WIND REPORTS/HI....
HAIL REPORTS/LG....
TOTAL REPORTS.....

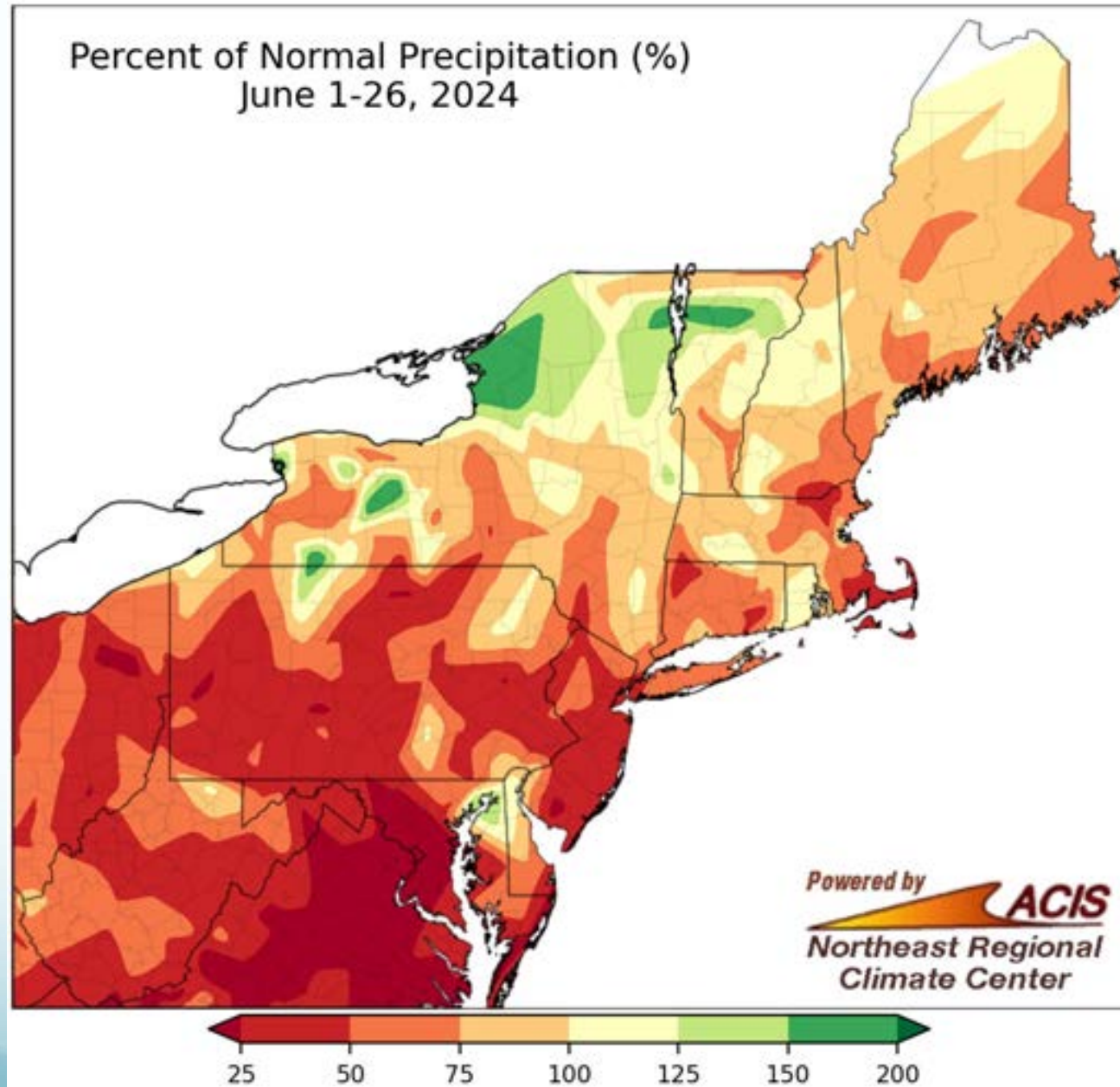
Images
courtesy of
NWS LWX



Image courtesy of NWS BGM



June Precipitation



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



June Dryness

Time Series Summary for Sterling-Dulles Airport Area, VA (ThreadEx)

[Click column heading to sort ascending, click again to sort descending.](#)

Rank	Ending Date	Total Precipitation Jun 1 to Jun 25	Missing Count
1	2024-06-25	0.28	0
2	1988-06-25	0.52	0
3	2010-06-25	0.53	0
4	1966-06-25	0.87	0
5	2005-06-25	0.91	0

Time Series Summary for Allentown Area, PA (ThreadEx)

[Click column heading to sort ascending, click again to sort descending.](#)

Rank	Ending Date	Total Precipitation Jun 1 to Jun 25	Missing Count
1	1949-06-25	0.34	0
2	1923-06-25	0.40	0
3	1966-06-25	0.42	0
4	2024-06-25	0.72	0
-	1979-06-25	0.72	0

Time Series Summary for Elkins Area, WV (ThreadEx)

[Click column heading to sort ascending, click again to sort descending.](#)

Rank	Ending Date	Total Precipitation Jun 1 to Jun 25	Missing Count
1	2005-06-25	1.01	0
2	1967-06-25	1.02	0
3	1960-06-25	1.14	0
4	1936-06-25	1.18	0
5	2024-06-25	1.25	0

Time Series Summary for Baltimore Area, MD (ThreadEx)

[Click column heading to sort ascending, click again to sort descending.](#)

Rank	Ending Date	Total Precipitation Jun 1 to Jun 25	Missing Count
1	1954-06-25	0.13	0
2	1873-06-25	0.29	0
3	1921-06-25	0.37	0
4	2024-06-25	0.42	0
5	1940-06-25	0.47	0

Time Series Summary for Washington Area, DC (ThreadEx)

[Click column heading to sort ascending, click again to sort descending.](#)

Rank	Ending Date	Total Precipitation Jun 1 to Jun 25	Missing Count
1	1940-06-25	0.13	0
2	1984-06-25	0.44	0
3	1921-06-25	0.47	0
4	2024-06-25	0.48	0
5	1954-06-25	0.50	0

Time Series Summary for Newark Area, NJ (ThreadEx)

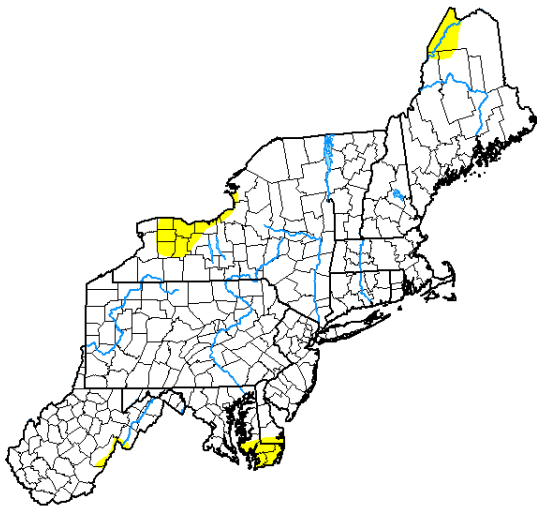
[Click column heading to sort ascending, click again to sort descending.](#)

Rank	Ending Date	Total Precipitation Jun 1 to Jun 25	Missing Count
1	1949-06-25	0.01	0
2	1966-06-25	0.40	0
3	1999-06-25	0.41	0
4	1954-06-25	0.44	0
5	2024-06-25	0.80	0



Drought Monitor

U.S. Drought Monitor Northeast



May 28, 2024

(Released Thursday, May. 30, 2024)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	95.80	4.20	0.00	0.00	0.00	0.00
Last Week 05-21-2024	96.27	3.73	0.00	0.00	0.00	0.00
3 Months Ago 02-27-2024	97.07	2.72	0.21	0.00	0.00	0.00
Start of Calendar Year 01-02-2024	87.20	10.30	1.83	0.67	0.00	0.00
Start of Water Year 09-26-2023	88.48	10.08	1.36	0.08	0.00	0.00
One Year Ago 05-30-2023	50.39	47.26	2.35	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>

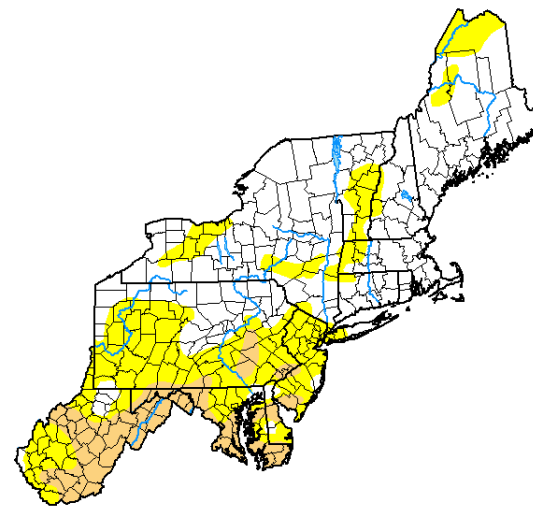
Author:

Rocky Biliotta
NCEI/NOAA



droughtmonitor.unl.edu

U.S. Drought Monitor Northeast



June 25, 2024

(Released Thursday, Jun. 27, 2024)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	56.71	30.97	12.31	0.00	0.00	0.00
Last Week 06-18-2024	69.45	29.68	0.87	0.00	0.00	0.00
3 Months Ago 03-26-2024	97.54	1.98	0.49	0.00	0.00	0.00
Start of Calendar Year 01-02-2024	87.20	10.30	1.83	0.67	0.00	0.00
Start of Water Year 09-26-2023	88.48	10.08	1.36	0.08	0.00	0.00
One Year Ago 06-27-2023	34.94	39.89	23.80	1.37	0.00	0.00

Intensity:

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

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Author:

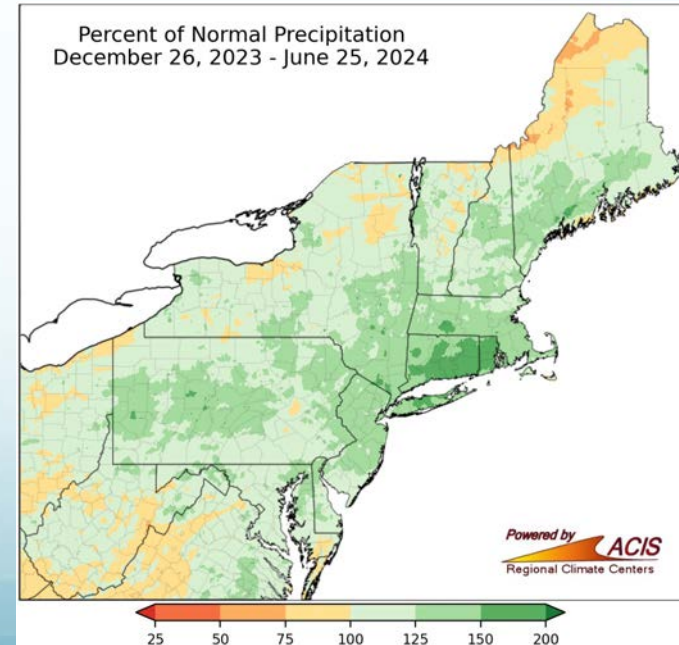
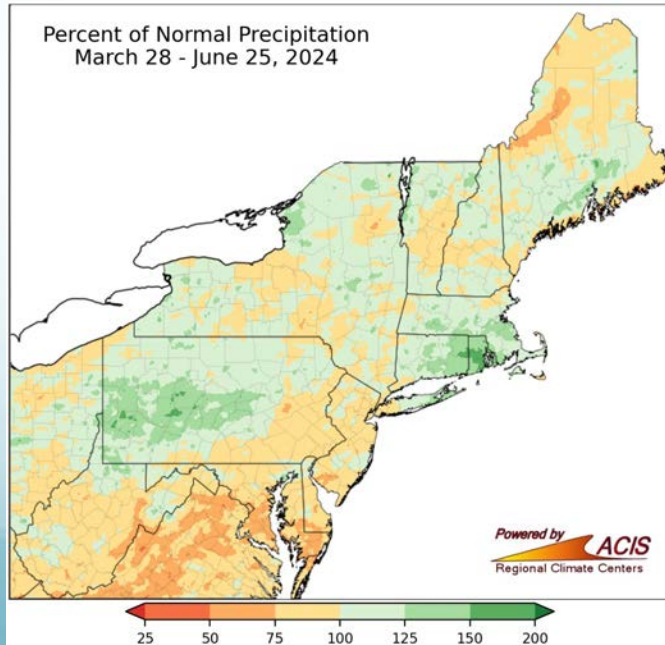
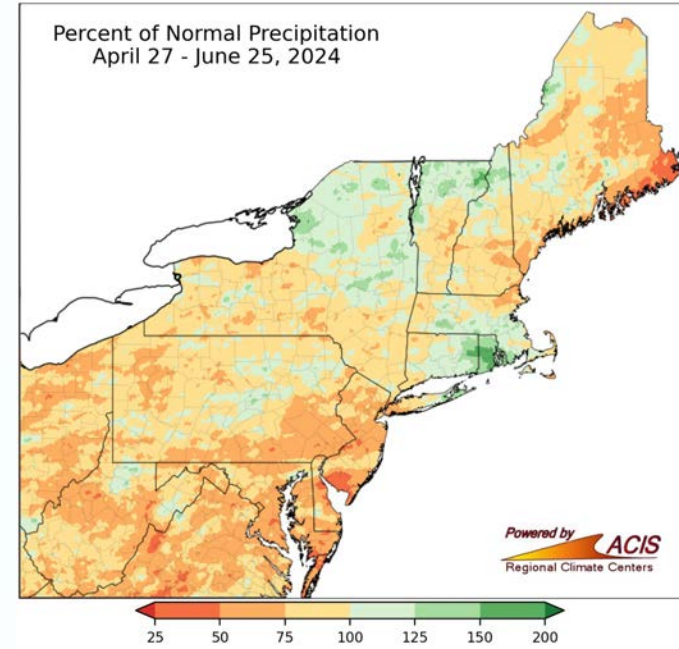
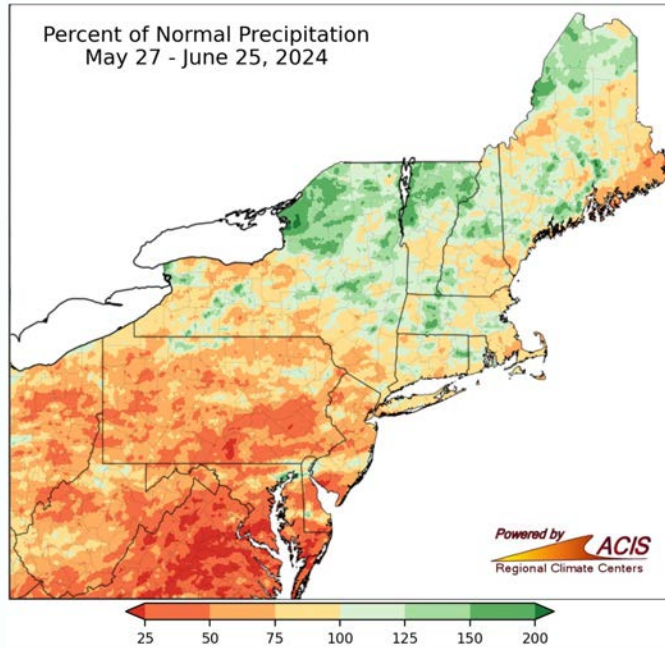
Adam Hartman
NOAA/NWS/NCEP/CPC



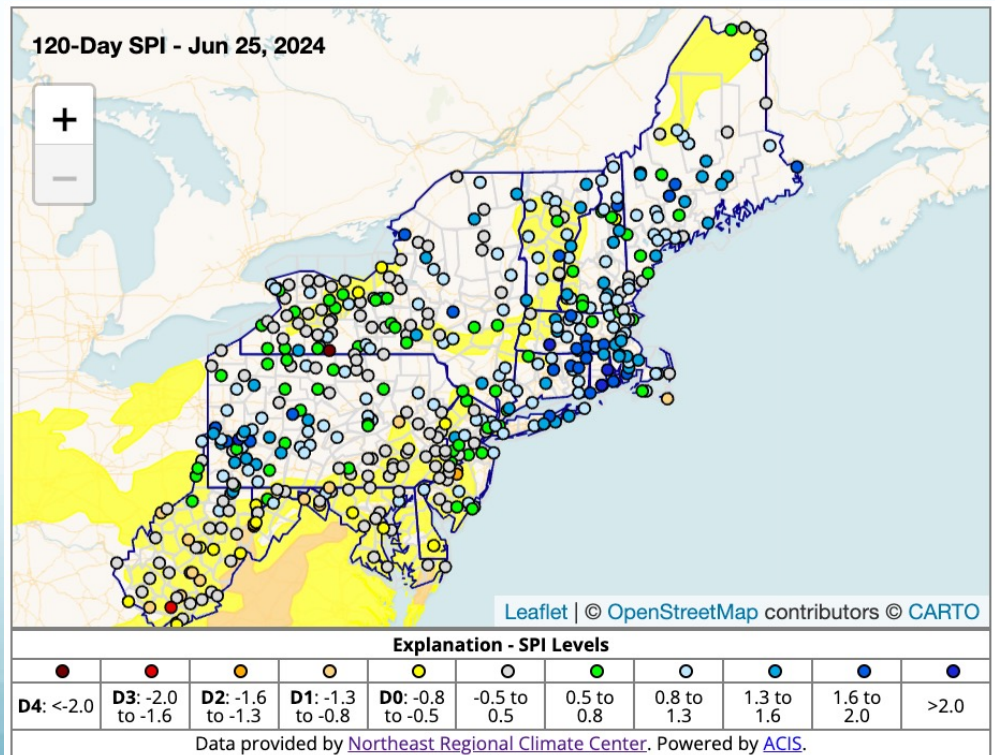
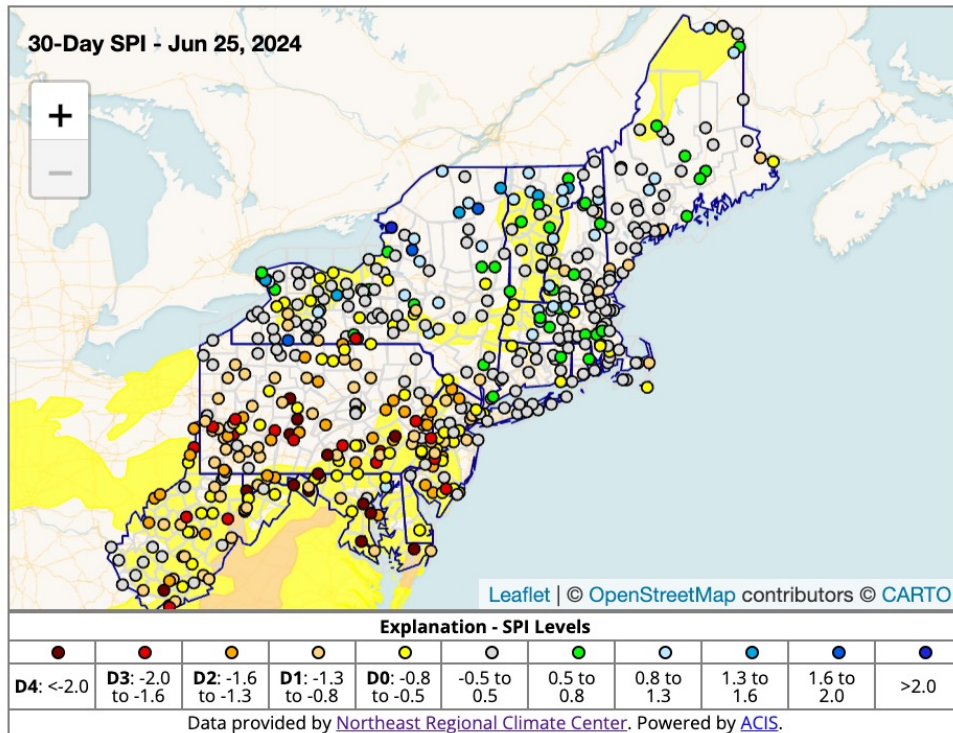
droughtmonitor.unl.edu



Precipitation



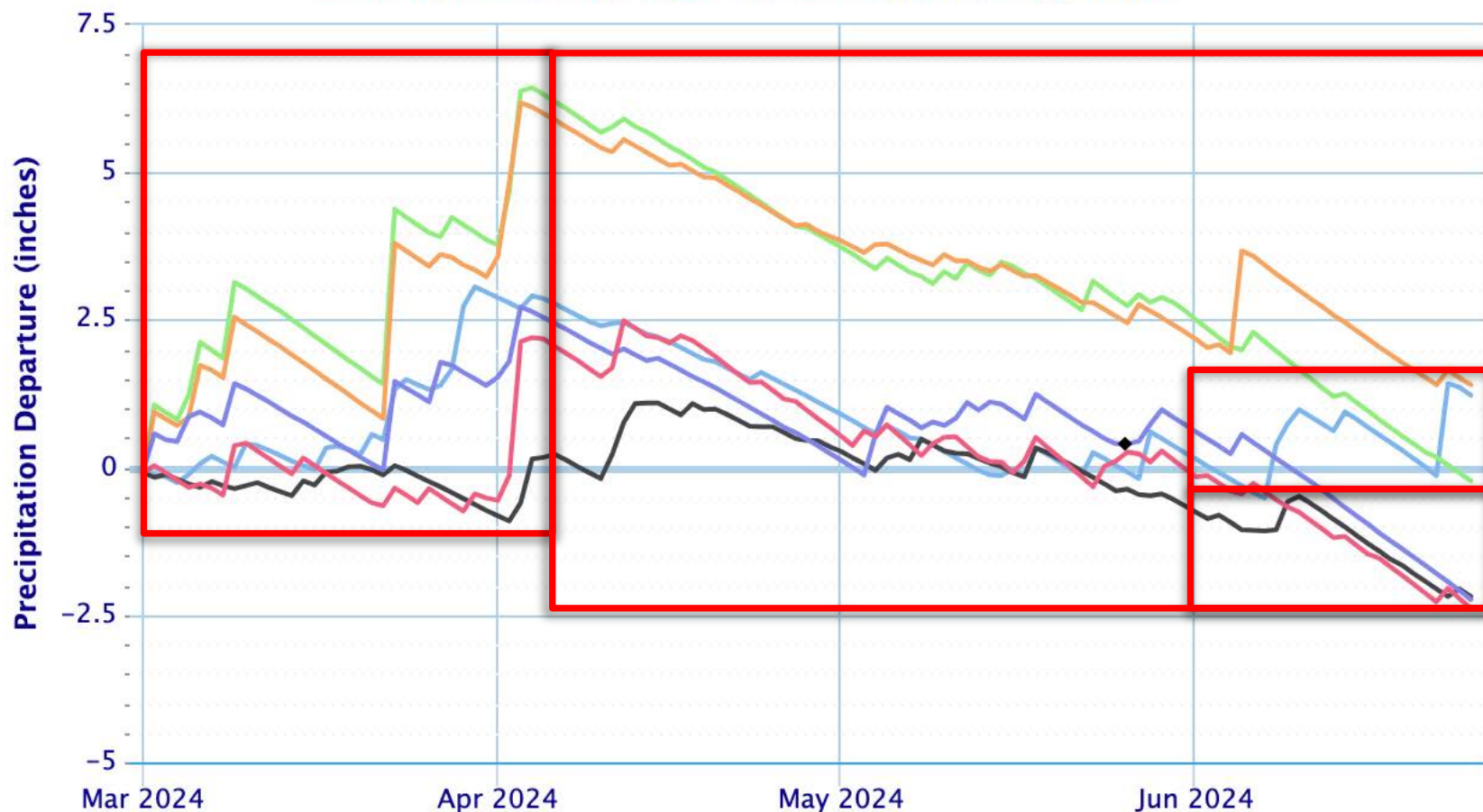
Standardized Precipitation Index



Precipitation

Accumulated Precipitation Departure from Normal

Green/black diamonds represent subsequent/missing values



(Click to hide/show lines)

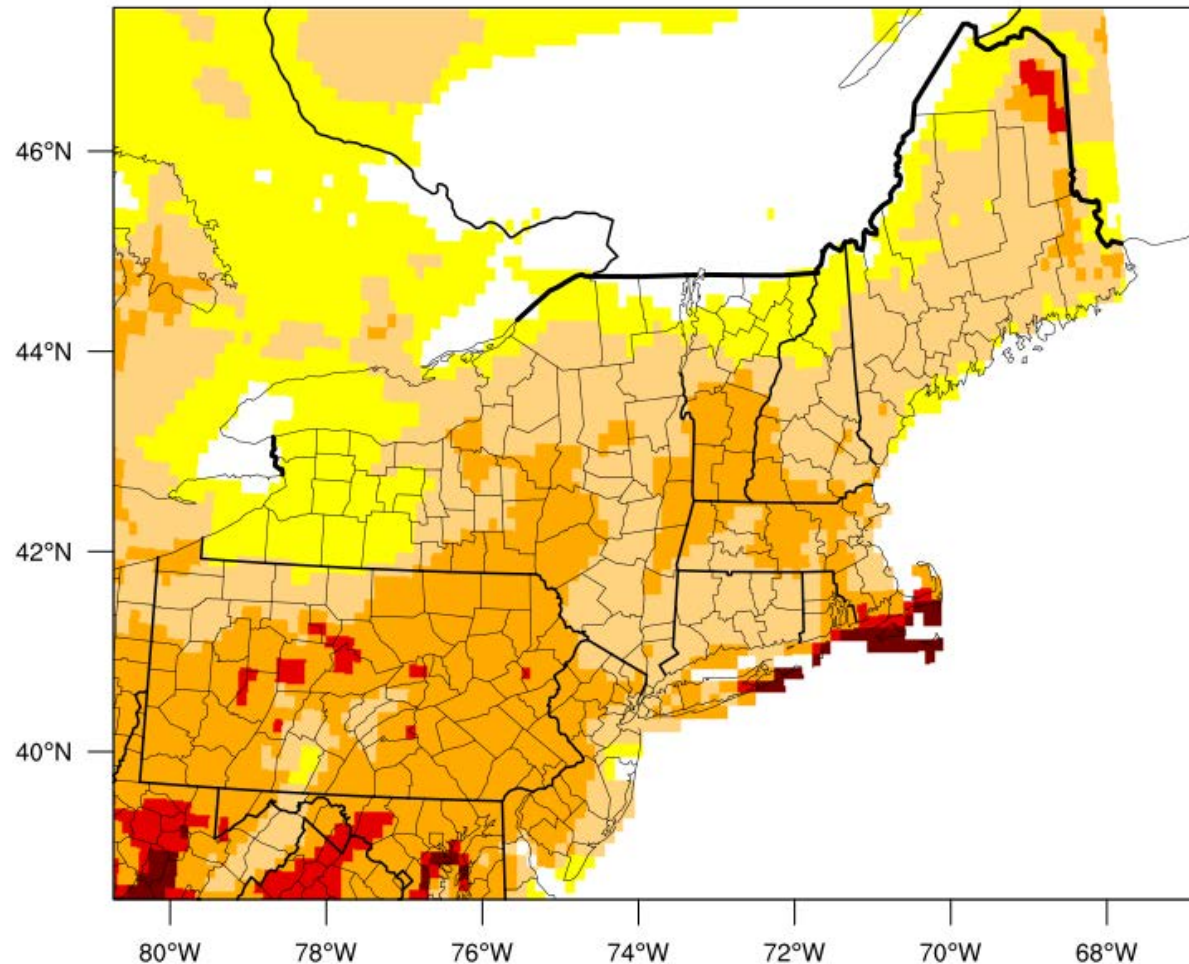
- Caribou Area, ME (ThreadEx):Precip Dprt
- Newark Area, NJ (ThreadEx):Precip Dprt
- Washington Area, DC (ThreadEx):Precip Dprt
- SILVER SPRINGS 3N, NY:Precip Dprt
- Philadelphia Area, PA (ThreadEx):Precip Dprt
- Elkins Area, WV (ThreadEx):Precip Dprt

Powered by ACIS



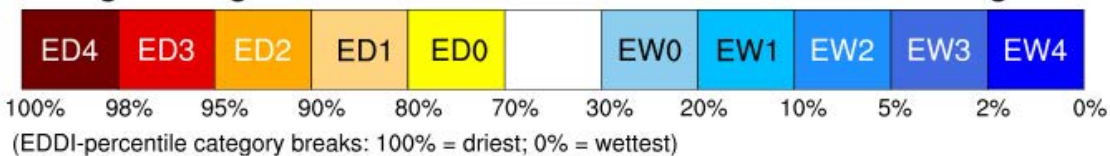
Evap. Demand Drought Index

1-week EDDI categories for June 21, 2024



Drought categories

Wetness categories

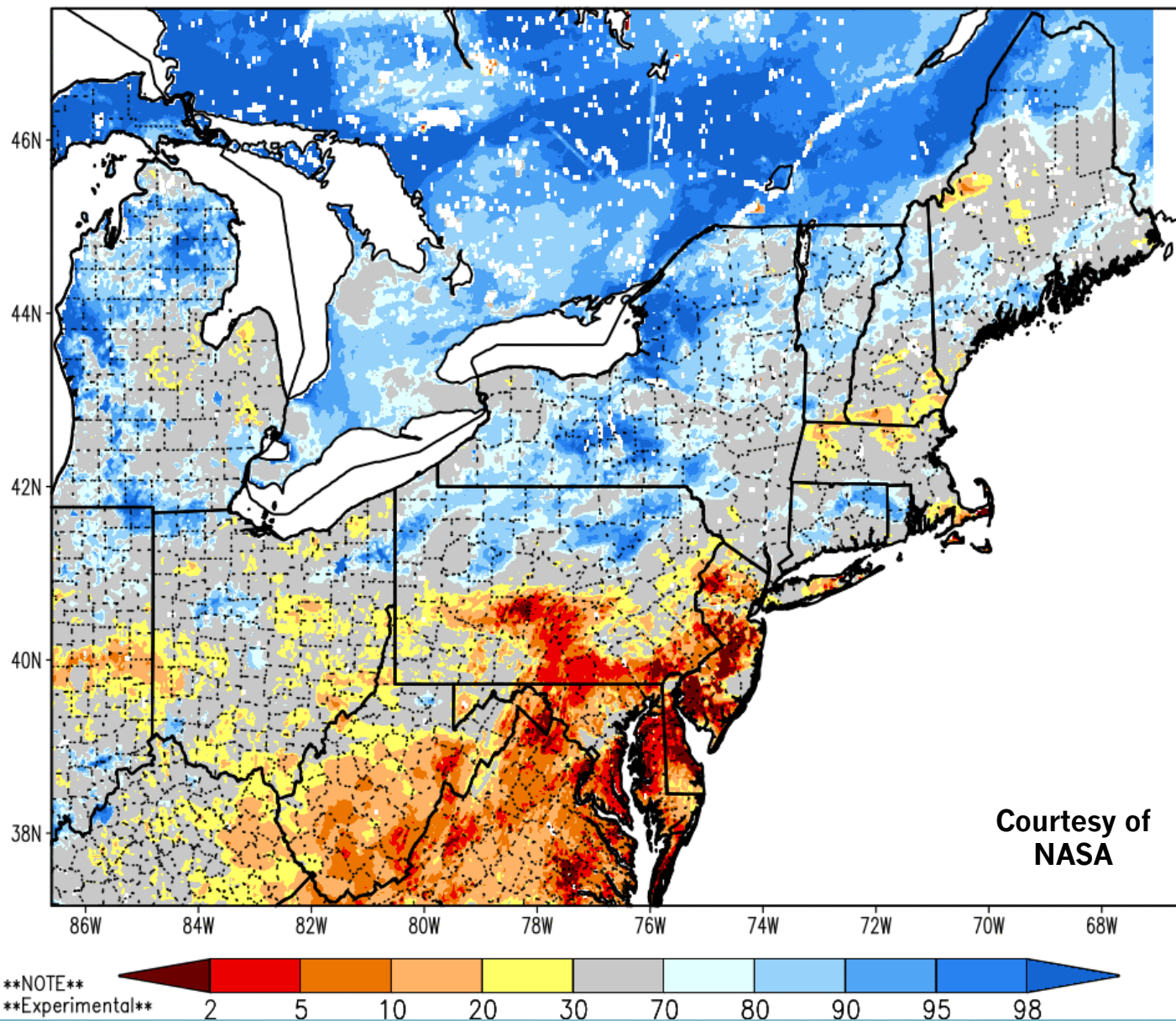


Generated by NOAA/ESRL/Physical Sciences Laboratory

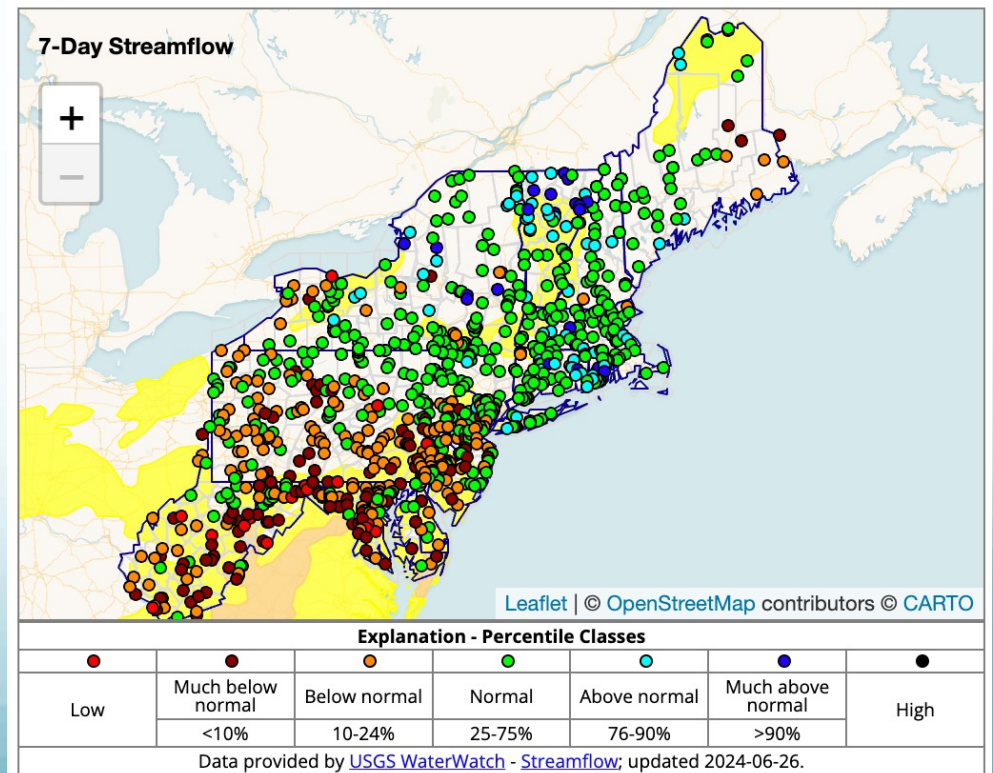
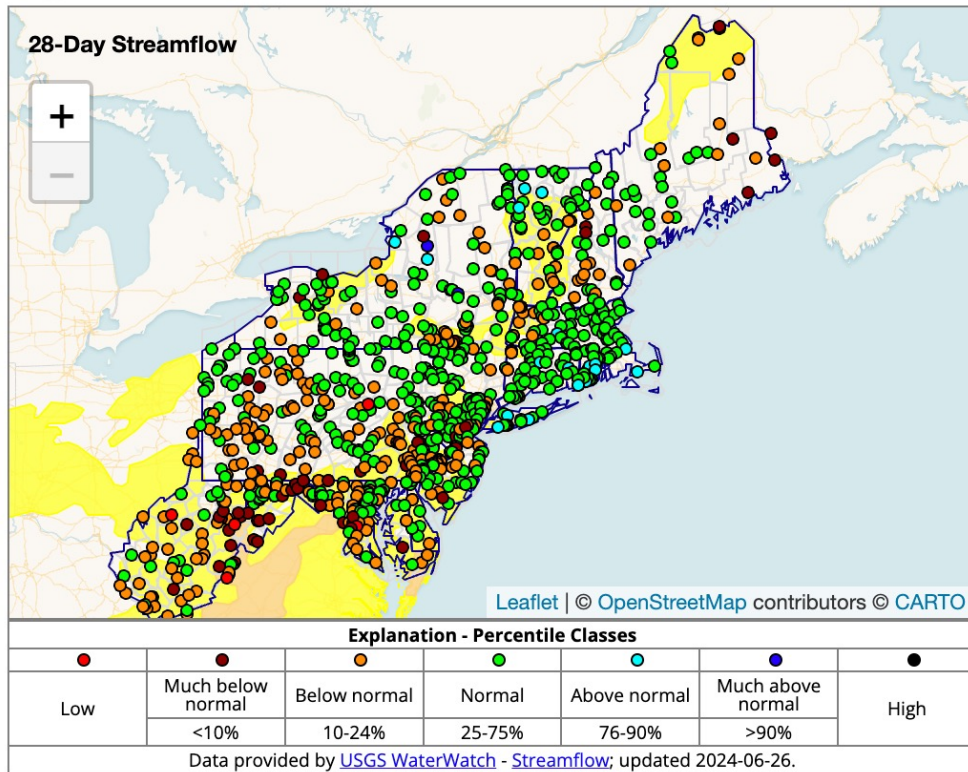


Soil Moisture

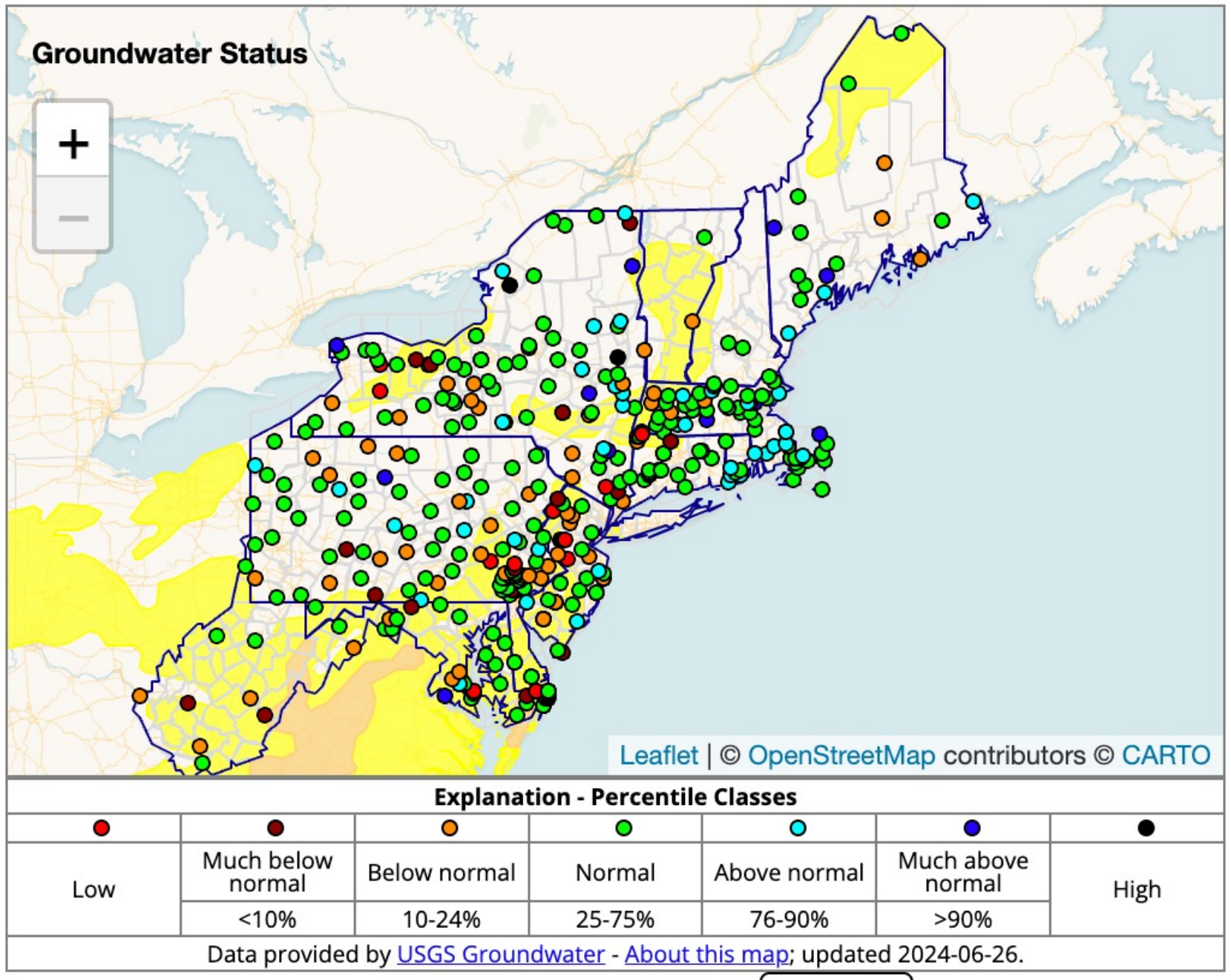
SPoRT-LIS 0-100 cm Soil Moisture percentile valid 27 Jun 2024



Streamflow

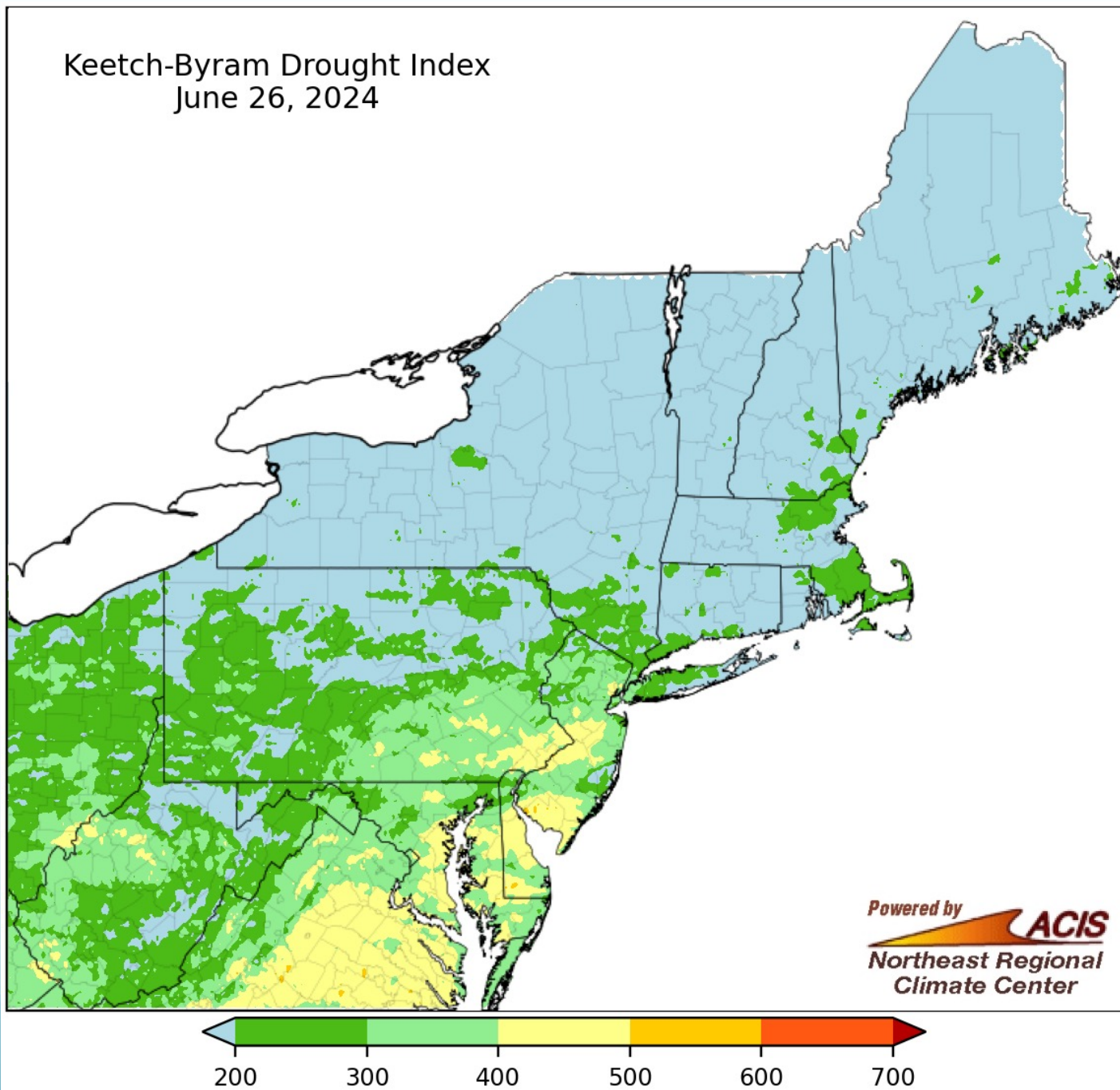


Groundwater

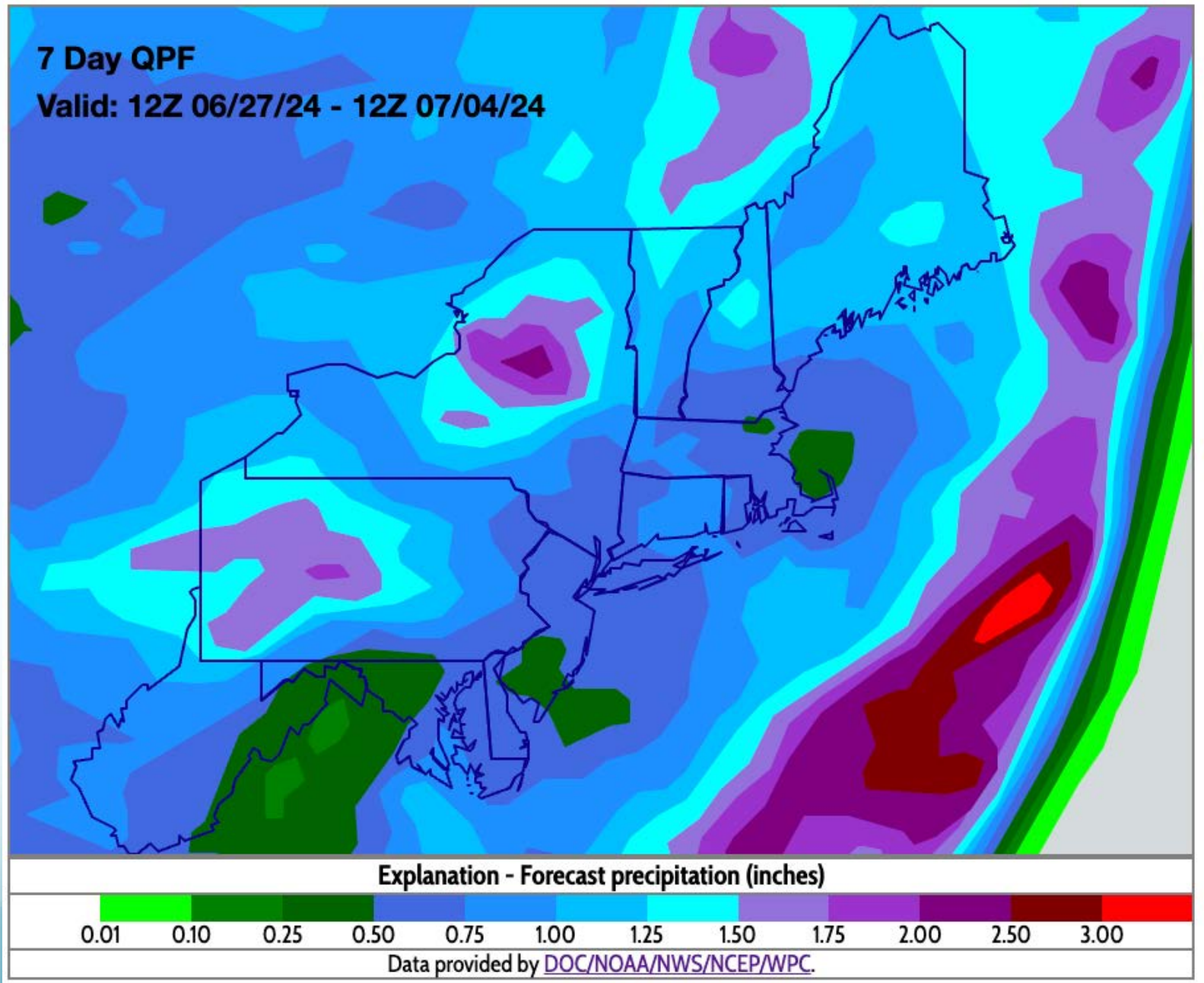


Wildfire Risk

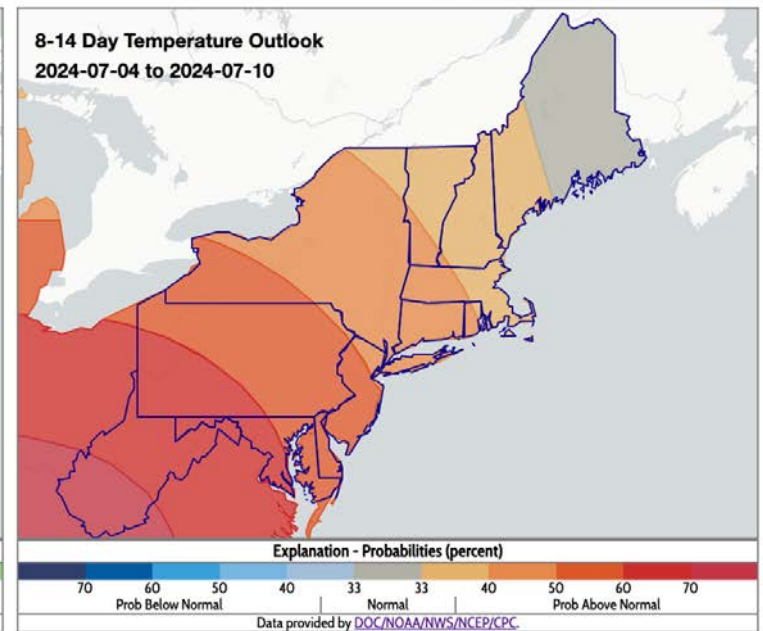
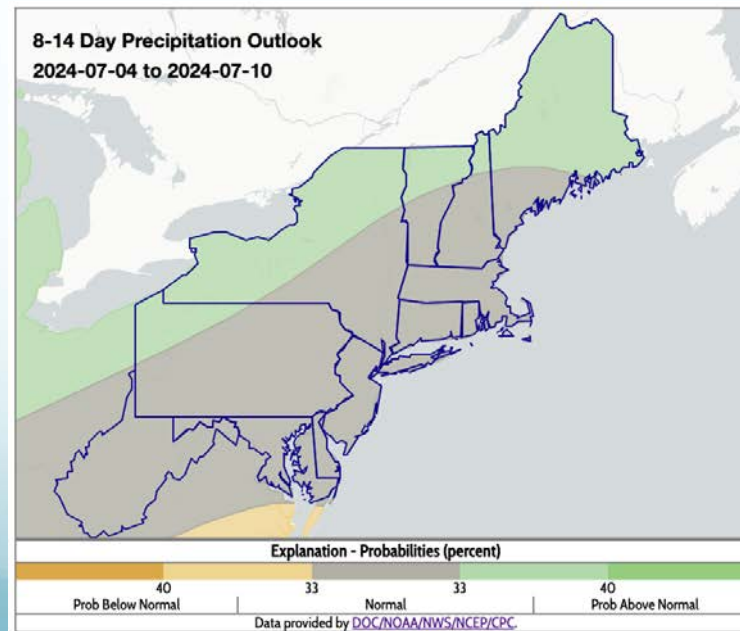
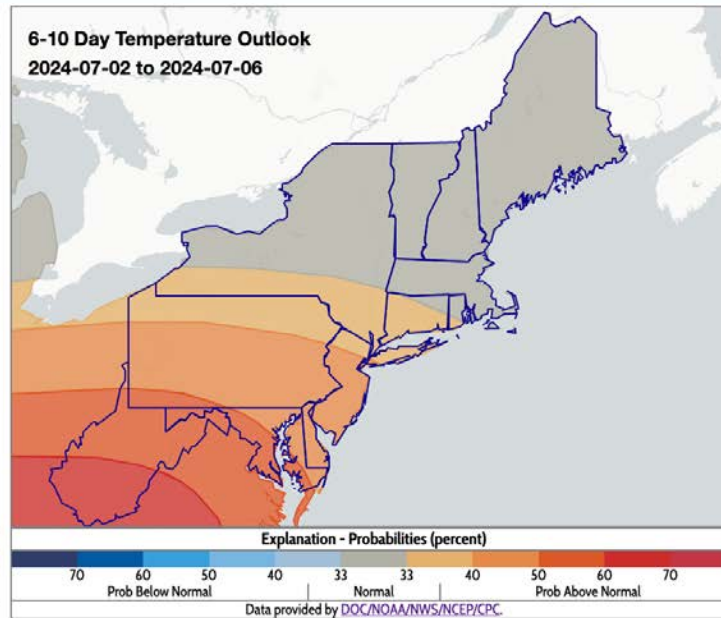
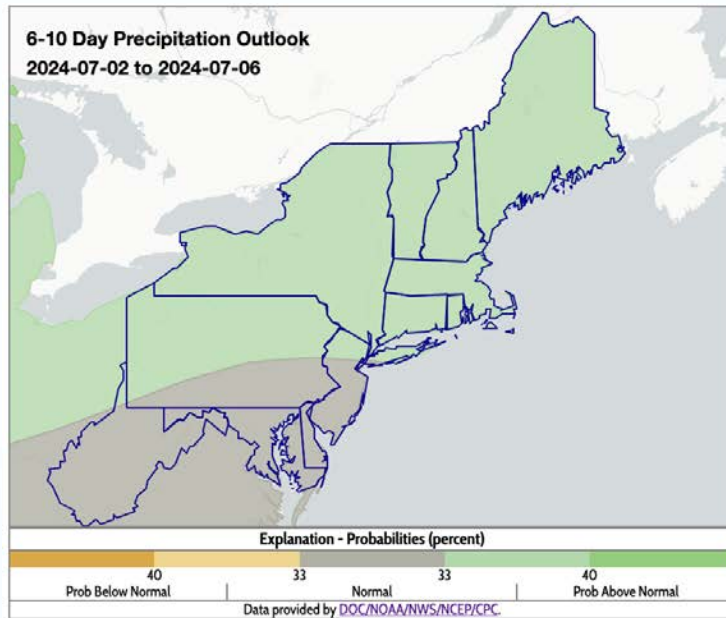
Keetch-Byram Drought Index
June 26, 2024



Precipitation Forecast



Short-term Outlooks



Short-term Outlooks



Hot Weather and Recent Dryness Create Favorable Conditions for Rapid Drought Development

Issued June 24, 2024

July 2-8, 2024

(a) Persistent warmer and drier than normal conditions over at least the last two weeks have impacted parts of the Mid-Atlantic, Southeast, and Southern Plains.

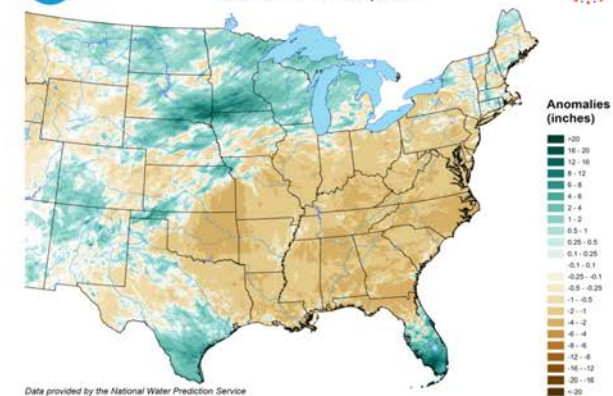
(b) These conditions have caused a risk of rapid onset drought. Hot and dry weather is likely to continue through the first week of July, with a moderate risk (40-60% chance) of excessive heat for several locations leading up to and including the 4th of July holiday.

Periodic, localized heavy precipitation cannot be ruled out due to frontal and/or daytime thunderstorm activity, which may provide a temporary reprieve, but no widespread heavy rainfall is anticipated.

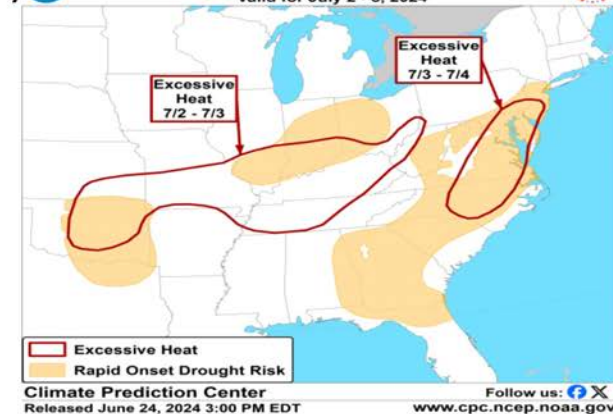
Dry soils, stressed vegetation, and reduced water availability due to low streamflows and groundwater may lead to increased impacts to agriculture and livestock, as well as increased fire danger. Several locations are already experiencing impacts.

* For short-term forecasts (prior to July 2), visit www.wpc.ncep.noaa.gov and weather.gov.

(a) Observed 14-day Precipitation Anomalies (inches)
Valid June 11 - 24, 2024



(b) Risk of Excessive Heat and Rapid Onset Drought
Valid for July 2 - 8, 2024

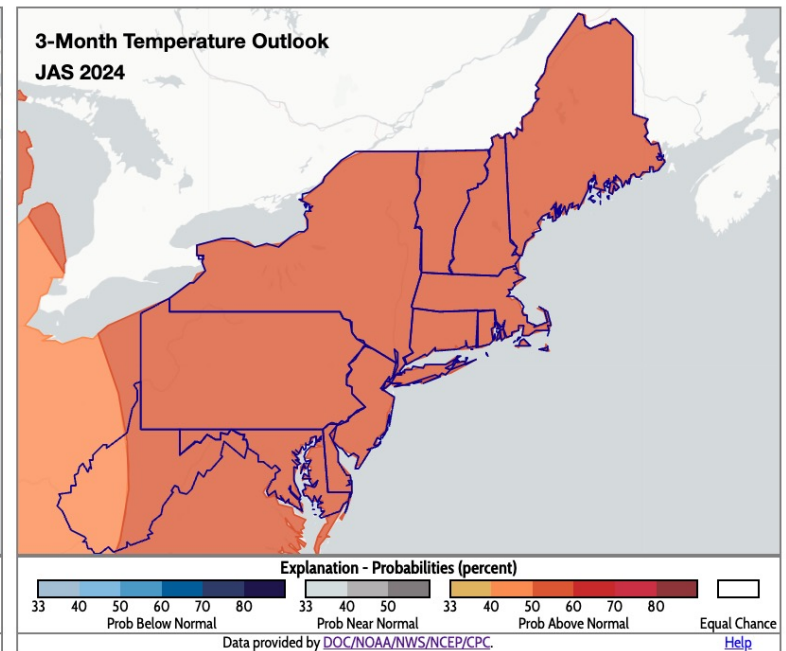
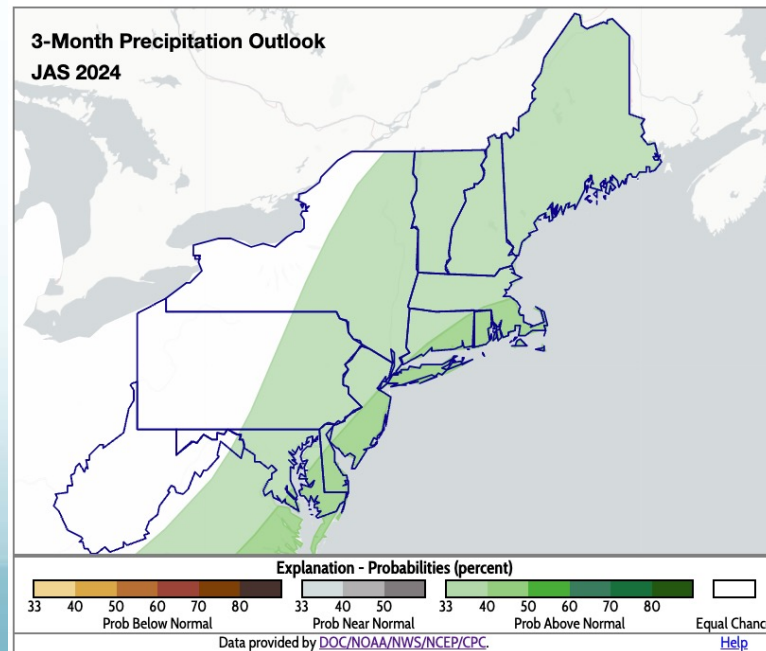
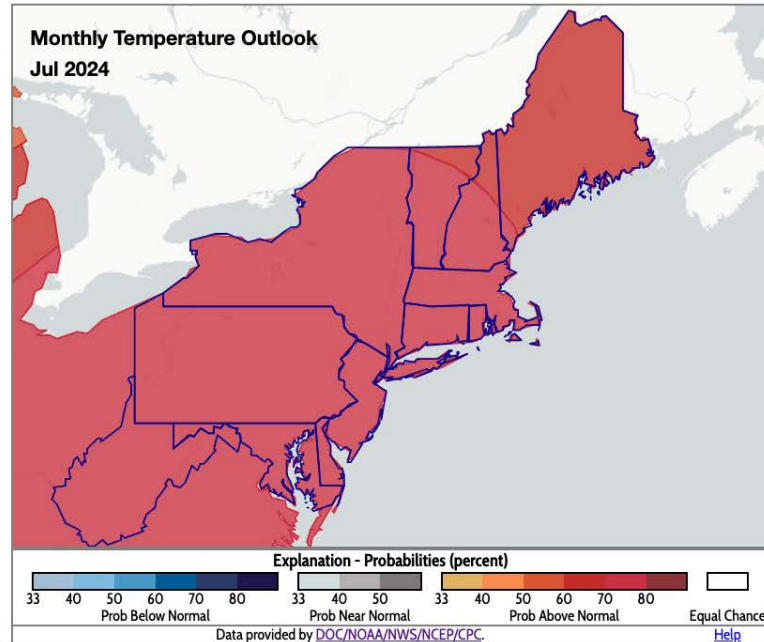
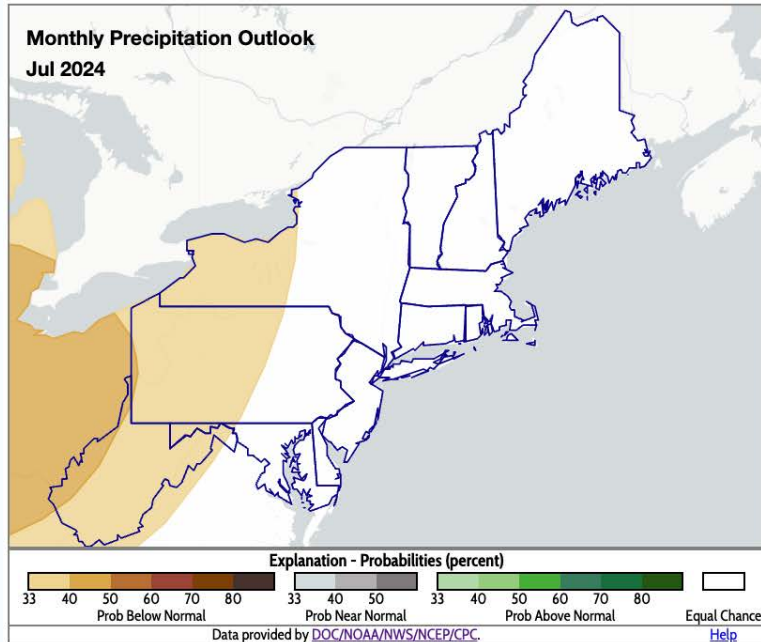


National Oceanic and Atmospheric Administration
U.S. Department of Commerce

Climate Prediction Center
www.cpc.ncep.noaa.gov

***Key messages are subject to change due to changes in forecast information and tools.

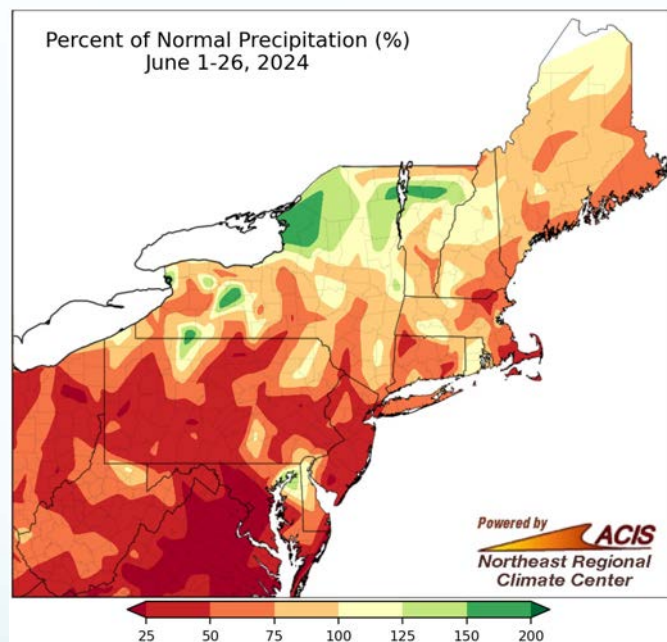
Monthly & 3-Month Outlooks



Summary

June-to-date conditions:

- Above-normal temperatures, driven by record or near-record heat mid-month
- Drier-than-normal for most areas; some spots with locally heavy rainfall



Drought:

- Drought introduced and abnormal dryness expanded in the Mid-Atlantic – something to keep an eye on!
- Some trimming of abnormal dryness in northern areas

Outlooks:

- Short-term: near- or above-normal precipitation and temperatures favored
- July: below-normal precipitation for interior areas; above-normal temperatures for all
- July-Sep: above-normal precipitation for areas close to the coast; above-normal temperatures for all



Drought Resources

Northeast Drought Early Warning News

April 23, 2024

Drought Conditions Update: Improvements Are Seen in Massachusetts and New York

- Recent rains were sufficient to support some recovery of groundwater levels on Nantucket. On last Thursday's U.S. Drought Monitor map for Massachusetts, only Abnormal Dryness (D0) remained.
- The Thursday, April 18 U.S. Drought Monitor also depicted only Abnormally Dry (D0) areas in western New York, with no drought. While Abnormal Dryness (D0) contracted in western New York over the past few weeks, D0 expanded along the coast of Lake Ontario from just east of Rochester to just south of Watertown.
- New York state's burn ban remains in effect through mid May.
- A low snow winter throughout the region still demands wildfire vigilance as warmer weather approaches.

Additional details are available in the [NRCC Blog](#).

Looking Further Ahead

- CPC's [Week 3-4 Temperature and Precipitation Outlooks](#) for May 4-17 (issued on April 19, 2024) call for equal chances of above/below normal temperatures and precipitation in our region. Status quo is likely for the Abnormal Dryness that remains in western New York and on Nantucket.
- The next Week 3-4 Outlook will be issued on Friday, April 26, 2024.

NOAA's ENSO Blog

The [April El Niño-Southern Oscillation \(ENSO\) Update](#) - Strong chances for El Niño to be on the way out and for La Niña to develop.

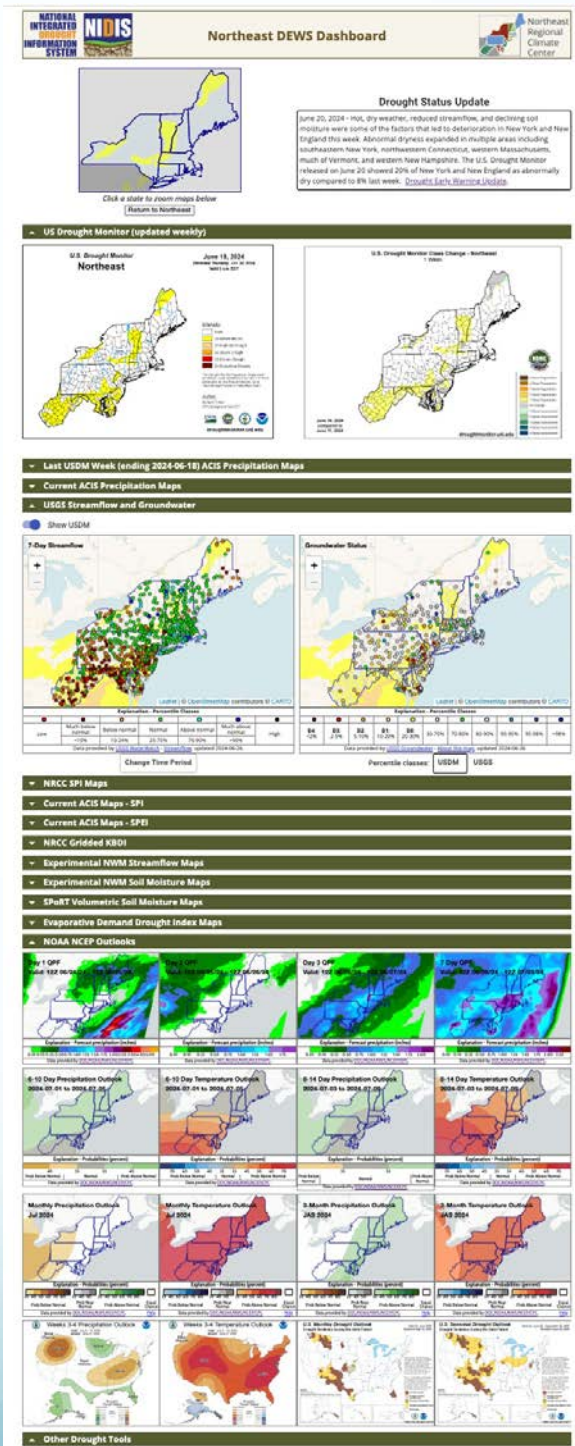
Announcements and Resources

Announcements

- CIRES and NIDIS are hiring: [Soil Moisture Program Coordinator](#)
- National Water Center and NIDIS are hiring: [Water and Drought Resource Specialist](#)
- NOAA's Eastern Region Climate Services April 30 Webinar - [Register here](#)
- [NYS DEC Commissioner Comments on Spring Wildfire Season](#)
- [NYS DEC Announces Prescribed Fire Season Begins](#)
- Register for the [2024 National Soil Moisture Workshop](#)
- [Farmers.gov Dashboard Now Available in All 50 States](#)
- [NIDIS Publishes Annual Report](#)

For Regional Awareness

- [NY DEC Prescribed Fire and Wildfire Events \(Early April\)](#)
- [NYS DEC Weekly Update \(Wildfire and Prescribed Fire Late March\)](#)
- [Increasing Large Wildfire in the Eastern United States](#)



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

Contact Information

- nrcc@cornell.edu

Upcoming Webinars

- Tuesday, July 30 at 9:30am EDT
 - National Integrated Heat Health Information System on the heat season, extreme heat, and community pilots
- Thursday, August 29 at 9:30am EDT
 - Hurricane outlook and season update
- Thursday, September 26 at 9:30am EDT
 - NRCC projects



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