

September Recap & Northeast DEWS Discussion

By: Samantha Borisoff, Climatologist
Northeast Regional Climate Center



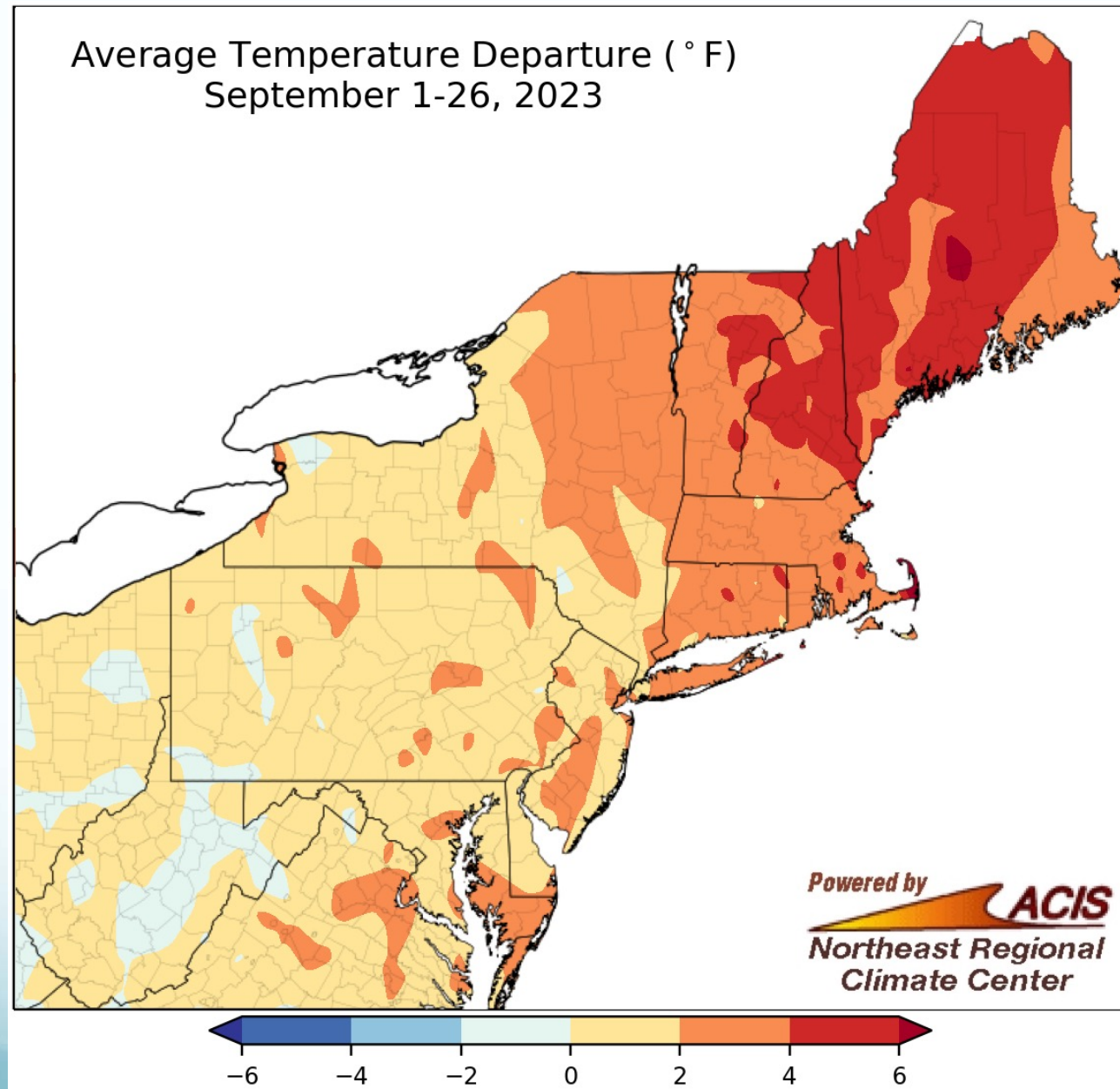
Early September Warmth

Station	Sep. Date	Max Temp	Rank for Sep.
Atlantic City, NJ	6	97	3
Baltimore, MD	3	98	10
Baltimore, MD	4	99	5
Baltimore, MD	5	99	5
Baltimore, MD	6	100	2
Baltimore, MD	7	98	10
Bridgeport, CT	7	93	3
Dulles Airport, VA	3	99	2
Dulles Airport, VA	4	99	2
Dulles Airport, VA	5	99	2
Dulles Airport, VA	6	100	1
Harrisburg, PA	4	97	6
Islip, NY	5	91	9
Islip, NY	6	92	3
Islip, NY	7	92	3
Kennedy Airport, NY	5	93	5
Kennedy Airport, NY	6	93	5
LaGuardia Airport, NY	7	96	7
Newark, NJ	6	97	10
Philadelphia, PA	7	97	6
Washington, D.C.	4	98	10
Washington, D.C.	5	99	5
Washington, D.C.	6	98	10
Washington, D.C.	7	98	10

Station	Sep. Date	Min Temp	Rank for Sep.
Atlantic City, NJ	8	76	4
Boston, MA	6	75	4
Boston, MA	7	75	4
Bridgeport, CT	9	75	2
Caribou, ME	8	67	1
Central Park, NY	6	77	8
Dulles Airport, VA	5	74	2
Islip, NY	6	74	6
Islip, NY	8	77	1
Islip, NY	9	76	2
LaGuardia Airport, NY	6	78	8
LaGuardia Airport, NY	7	78	8
Newark, NJ	5	78	2
Newark, NJ	6	77	8
Philadelphia, PA	5	78	2
Philadelphia, PA	6	77	4
Portland, ME	6	68	7
Portland, ME	8	68	7
Providence, RI	9	73	5
Washington, D.C.	5	77	10
Washington, D.C.	7	78	3
Wilmington, DE	5	74	10
Worcester, MA	5	73	2
Worcester, MA	6	73	2
Worcester, MA	7	72	4



September Temperatures



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

Severe Weather



Sep 9

Now Playing
WVIA FM

Clean-up underway after deadly flooding in Northeast Pa.

By Kat Bolus | WVIA News
 Published September 11, 2023 at 5:50 PM EDT

LISTEN • 2:32

1 of 8
 A Scranton DPW crew member wades in flood waters.
 Aimee Diger / WSA News

Sep 11



Flash Flood Emergency continues for Leominster MA, Fitchburg MA and Lunenburg MA until 8:00 AM EDT

Flash Flood Emergency

Valid Until
 8:00 AM EDT Tuesday
 September 12, 2023

Safety Information

- Move immediately to higher ground!
- Avoid walking or driving through flood waters!

Potential Exposure

- Population: 95,857
- Schools: 27
- Hospitals: 2

This is a life threatening situation. Seek higher ground now!

9:55 PM • Sep 11, 2023 • 46.9K Views



Here's some information regarding a storm that produced multiple tornadoes from Killingly CT to North Attleborough MA yesterday afternoon. A link to our public information statement is included as well. forecast.weather.gov/product.php?si...

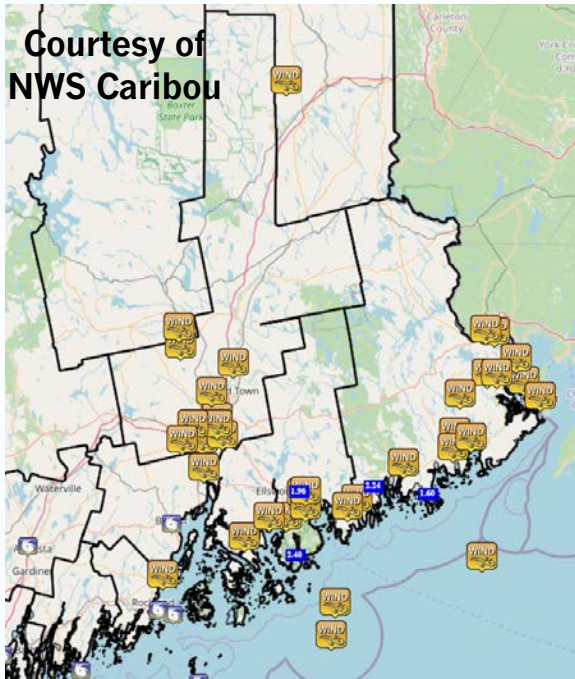
Location	Date	Time (local)	EF Rating	Ext. Peak Winds	Path Length	Max Width	Injuries/Deaths
North Attleborough MA Tornado	September 11, 2023	05:22 PM - 05:25 PM	EF-0	75 MPH	0.07	70	0 Injuries/ 0 Deaths
Lincoln RI Tornado	September 11, 2023	05:05 PM - 05:09 PM	EF-1	100 MPH	0.22 miles	60 yards	0 Injury/ 0 Deaths
Gloicester RI Tornado	September 11, 2023	04:20 PM - 04:28 PM	EF-1	100 MPH	0.21 miles	150 yards	0 Injuries/ 0 Deaths
Killingly CT to Foster RI Tornado	September 11, 2023	4:00 PM - 4:10 PM	EF-1	100 MPH	1.61 miles	70 yards	0 Injuries/ 0 Deaths

8:07 PM • Sep 14, 2023 • 42.7K Views

Sep 13



Tropical Systems



Courtesy of
NWS Caribou

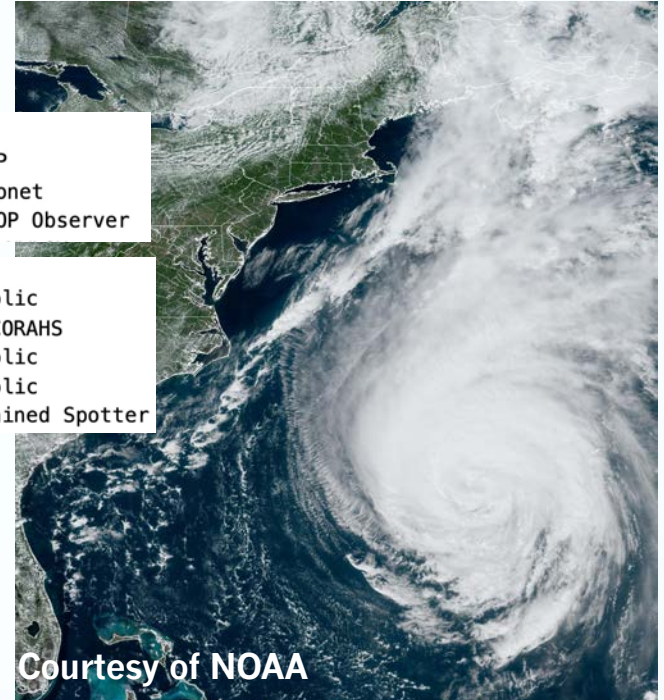
Hurricane Lee

...Hancock County...

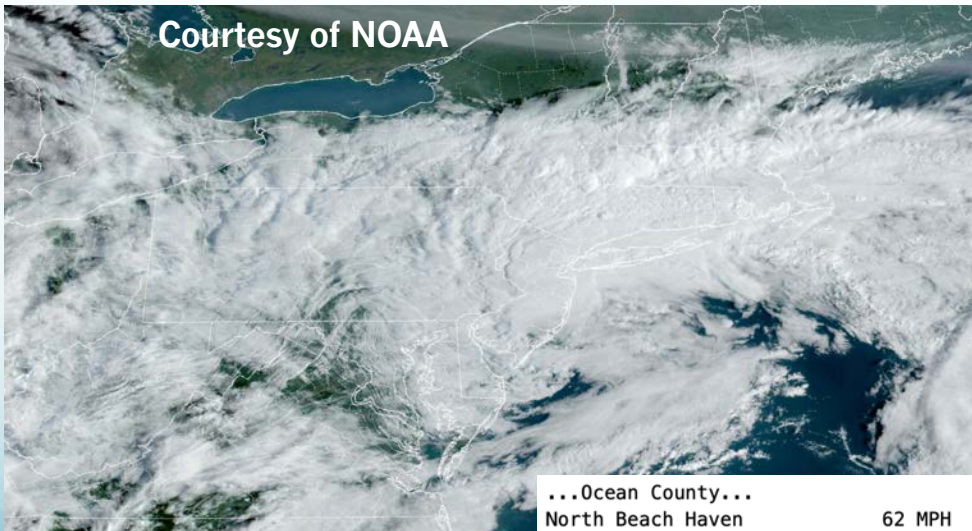
Sedgwick Ridge	55 MPH	0730 AM 09/16	CWOP
4 ENE Brooksville	55 MPH	0730 AM 09/16	Mesonet
East Surry	53 MPH	0436 PM 09/16	CO-OP Observer

...Washington County...

1 SSE Whiting	6.25 in	0802 AM 09/17	Public
Perry 3.8 NNW	6.06 in	0700 AM 09/17	COCORAHS
1 WSW Steuben	5.70 in	0610 PM 09/16	Public
1 SE Meddybemps	5.50 in	0715 PM 09/16	Public
1 ESE Meddybemps	5.45 in	0630 AM 09/17	Trained Spotter



Courtesy of NOAA



Courtesy of NOAA

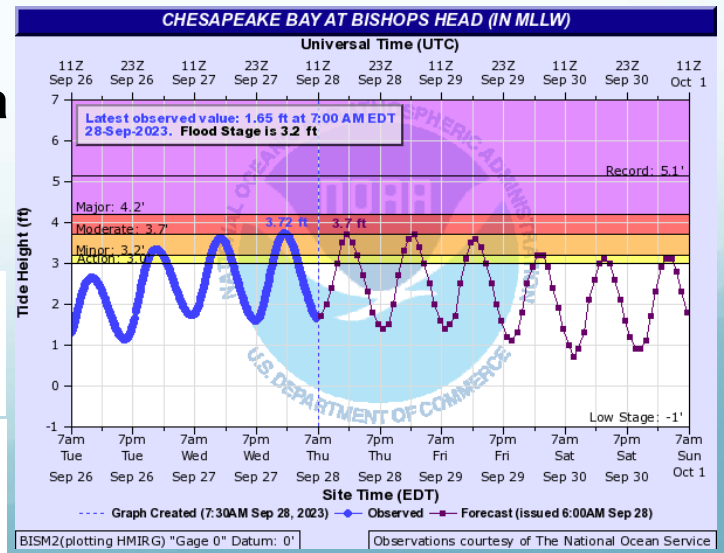
T.S. Ophelia

...Ocean County...

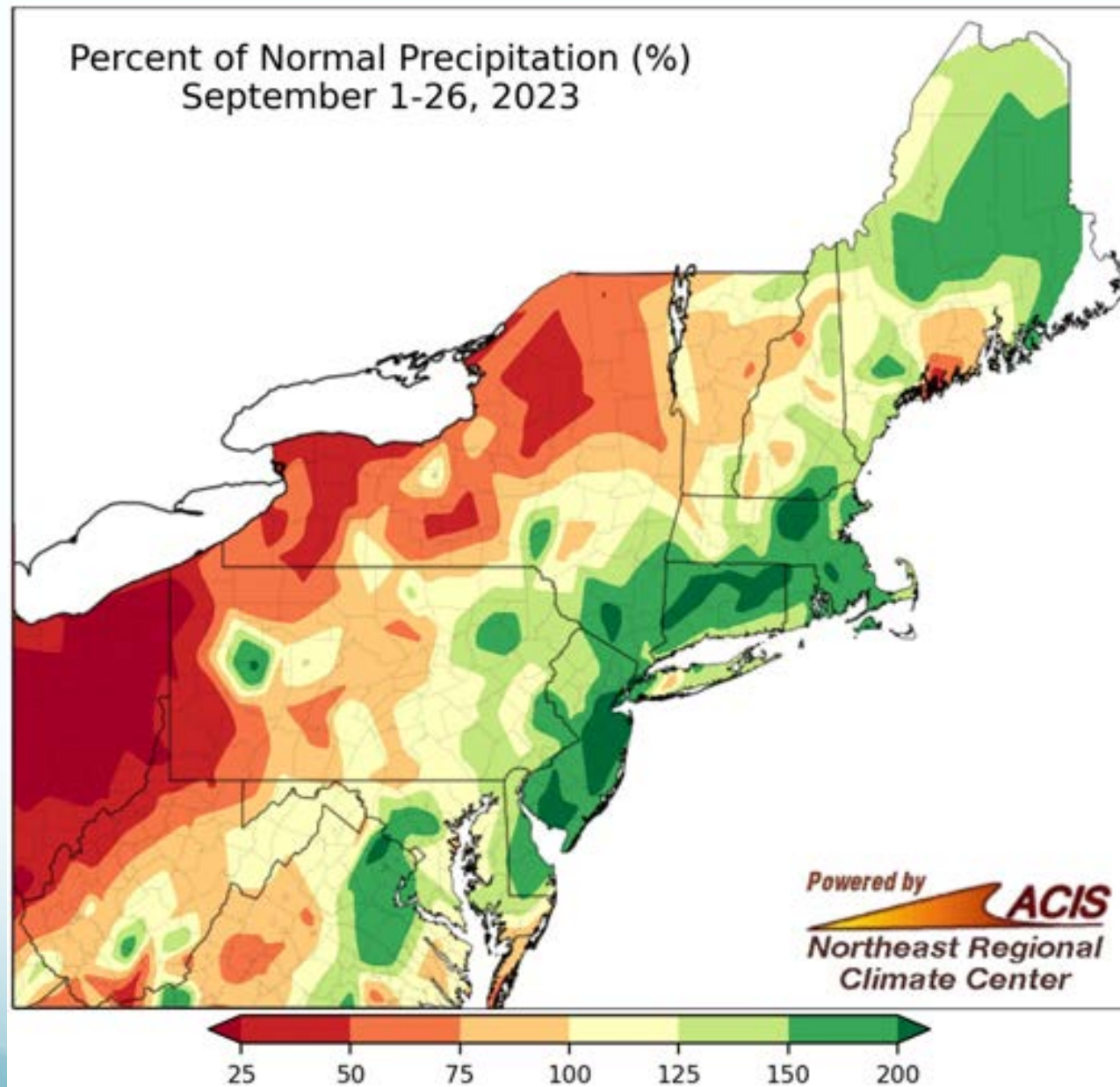
North Beach Haven	62 MPH	0530 AM 09/23	CWOP
Tuckerton	61 MPH	1020 AM 09/23	WXFLOW
Seaside Heights	59 MPH	1203 PM 09/23	WXFLOW
2 SSW Seaside Park	58 MPH	0839 AM 09/23	Mesonet

...Atlantic County...

Egg Harbor City 3.6 SW	4.77 in	0800 AM 09/25	COCORAHS
Egg Harbor City 3.5 SW	4.57 in	0800 AM 09/25	COCORAHS
Galloway Twp 2.9 SW	4.40 in	0700 AM 09/25	COCORAHS
Somers Point 0.2 NW	4.05 in	0530 AM 09/25	COCORAHS
Somers Point 0.4 N	3.84 in	0700 AM 09/25	COCORAHS



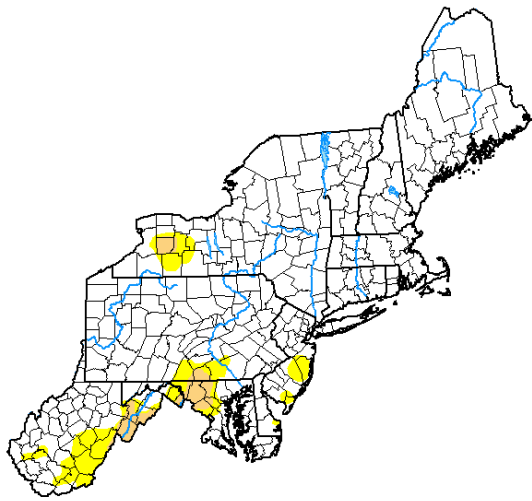
September Precipitation



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

Drought Monitor

U.S. Drought Monitor Northeast



August 29, 2023
(Released Thursday, Aug. 31, 2023)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	91.45	6.27	2.26	0.02	0.00	0.00
Last Week 08-22-2023	89.84	8.55	1.61	0.00	0.00	0.00
3 Months Ago 05-30-2023	50.39	47.26	2.35	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 08-30-2022	40.91	35.33	12.75	9.02	1.98	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>

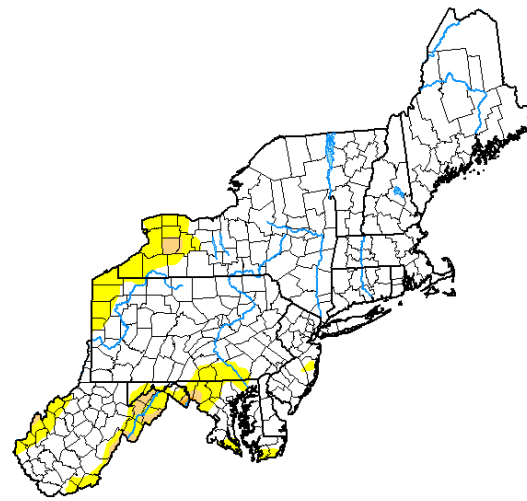
Author:

David Simeral
Western Regional Climate Center



droughtmonitor.unl.edu

U.S. Drought Monitor Northeast



September 26, 2023
(Released Thursday, Sep. 28, 2023)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	88.48	10.08	1.36	0.08	0.00	0.00
Last Week 09-19-2023	86.71	10.72	2.48	0.09	0.00	0.00
3 Months Ago 06-27-2023	34.94	39.89	23.80	1.37	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 08-30-2022	69.23	17.83	9.11	3.70	0.14	0.00

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Author:

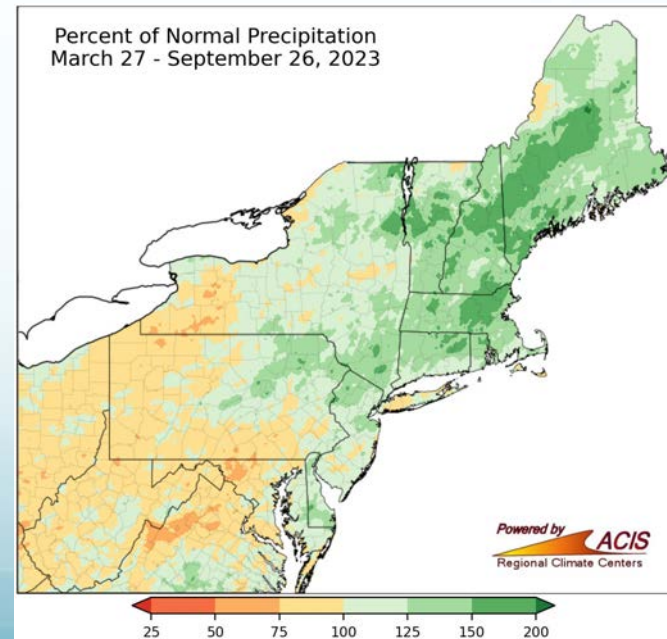
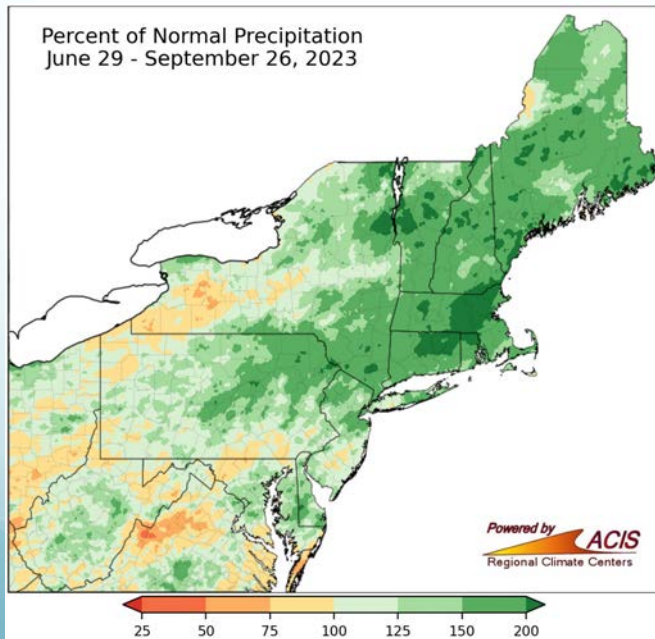
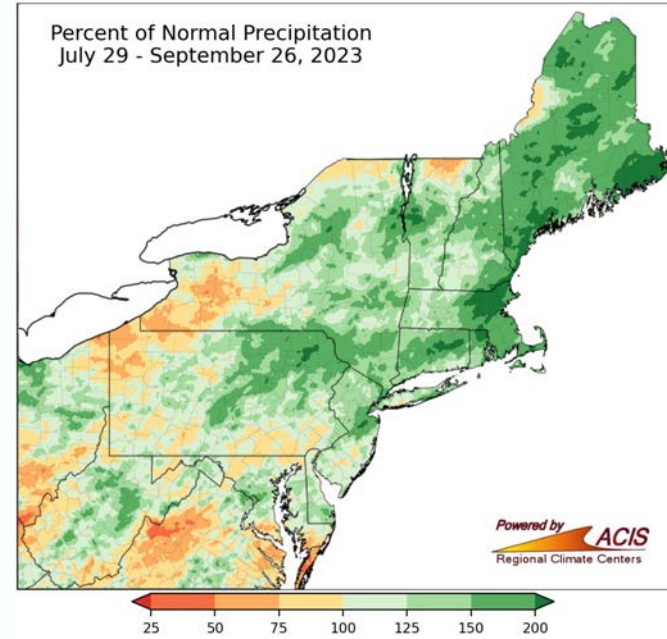
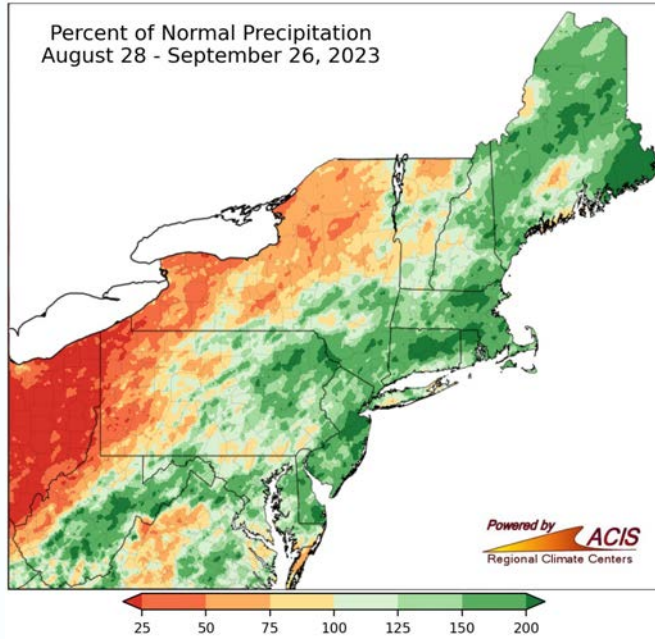
Richard Heim
NCEI/NOAA



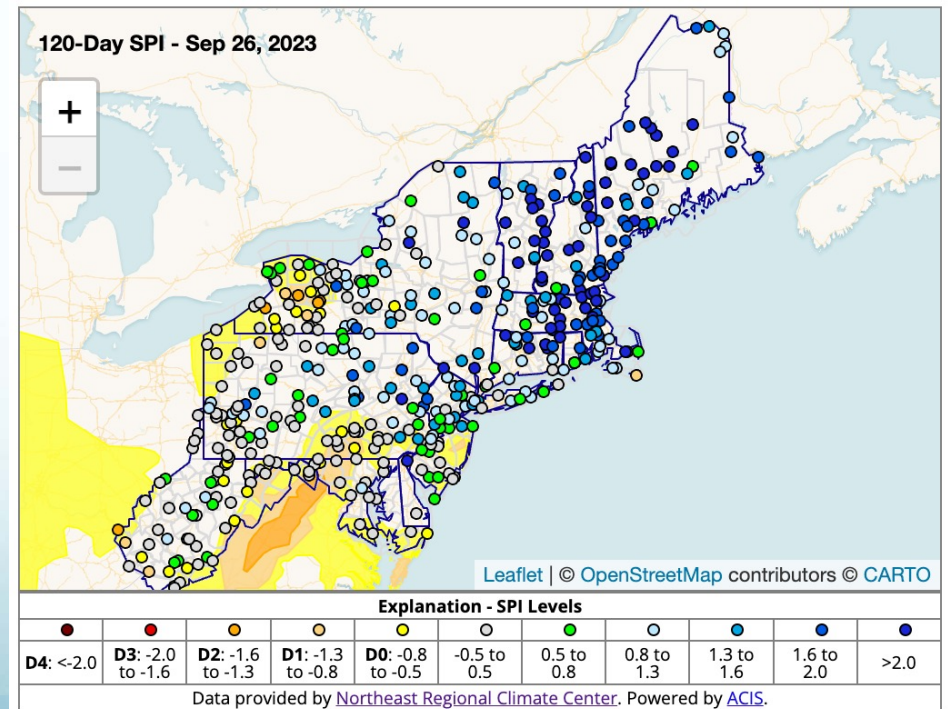
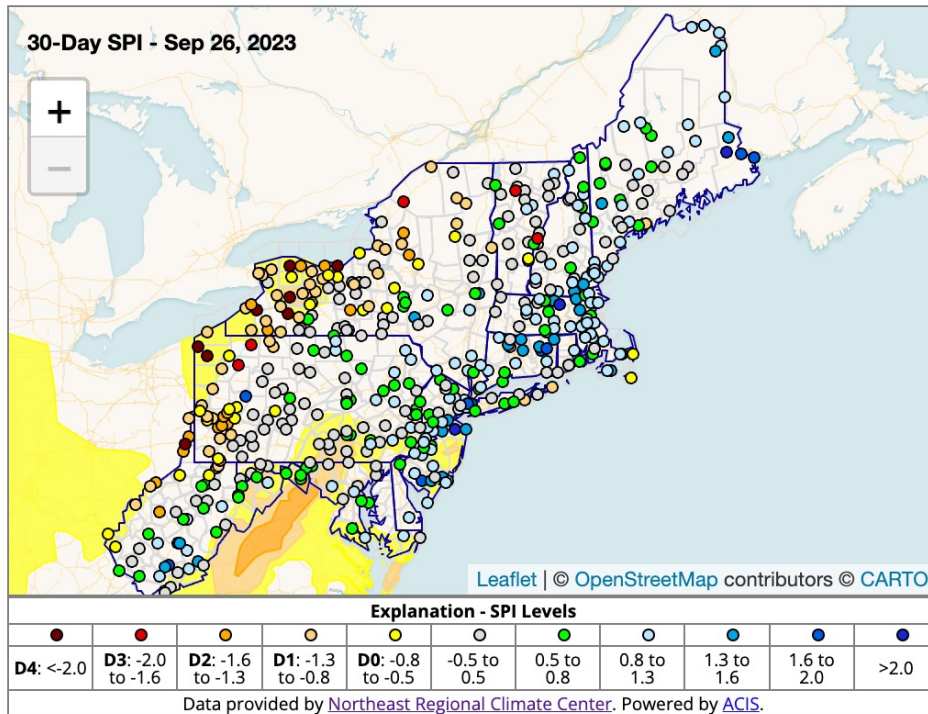
droughtmonitor.unl.edu



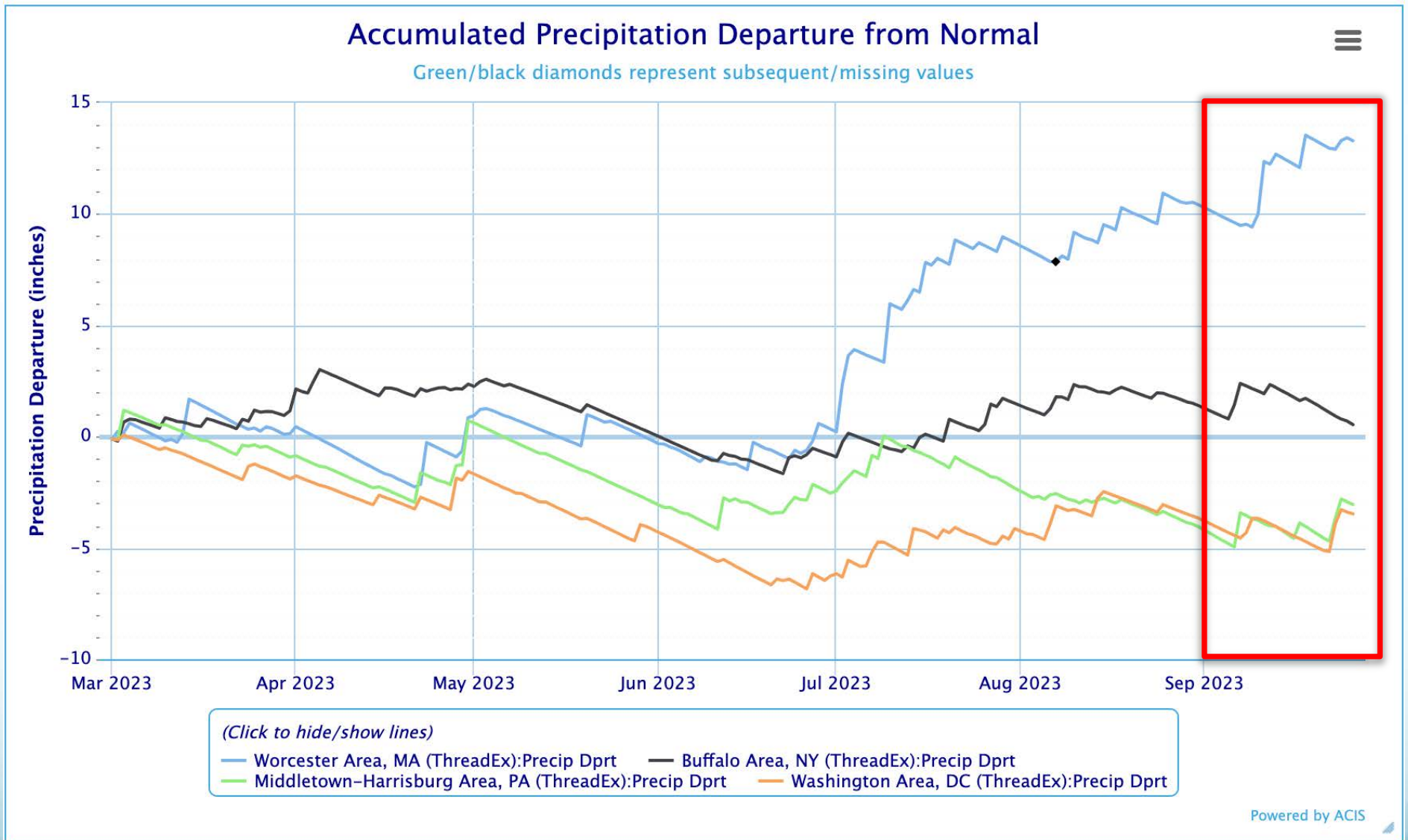
Precipitation



Standardized Precipitation Index

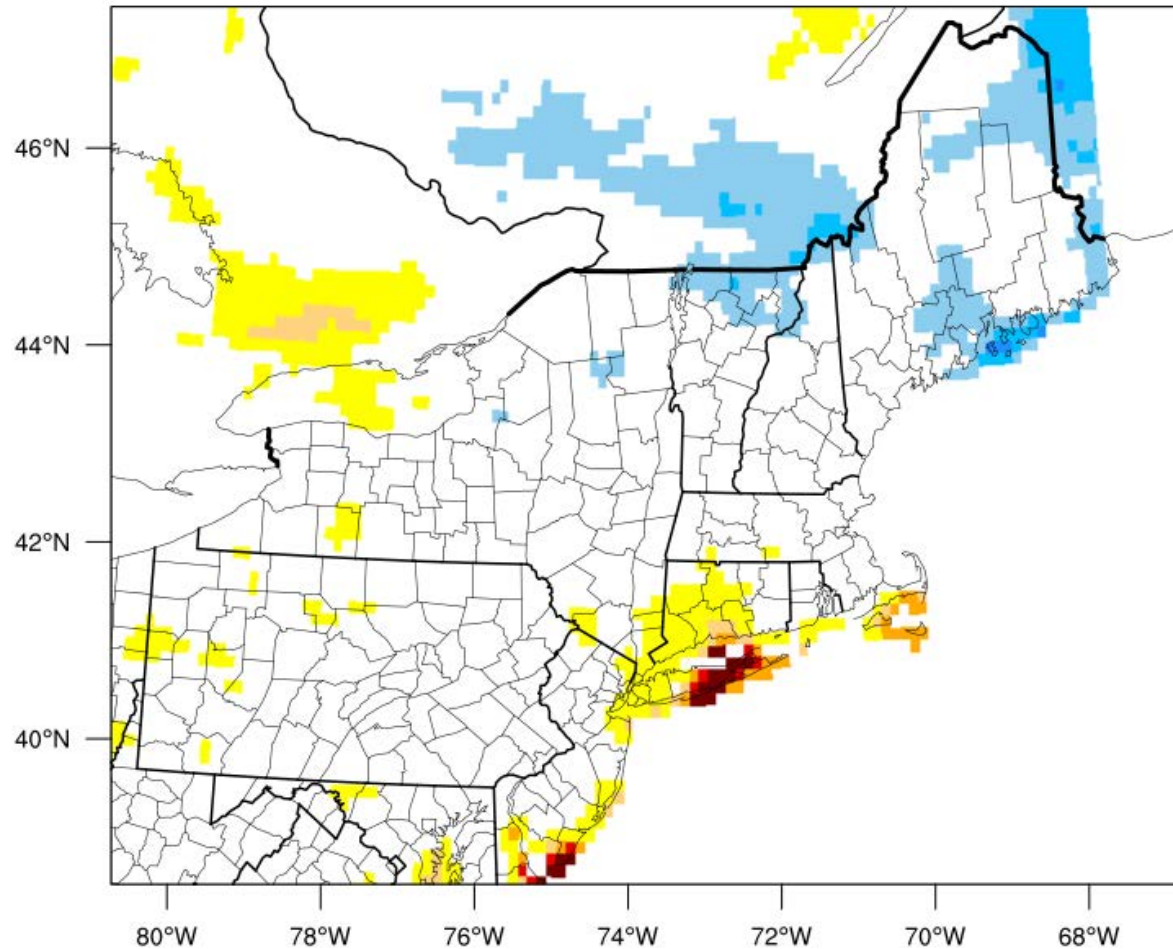


Precipitation



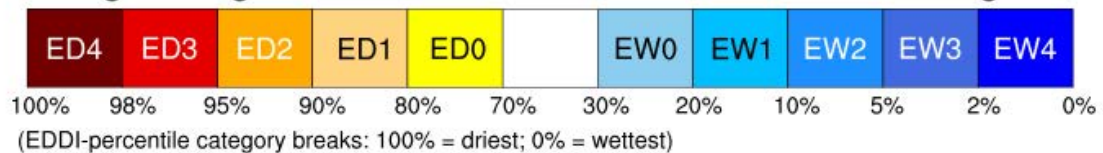
Evap. Demand Drought Index

1-week EDDI categories for September 22, 2023



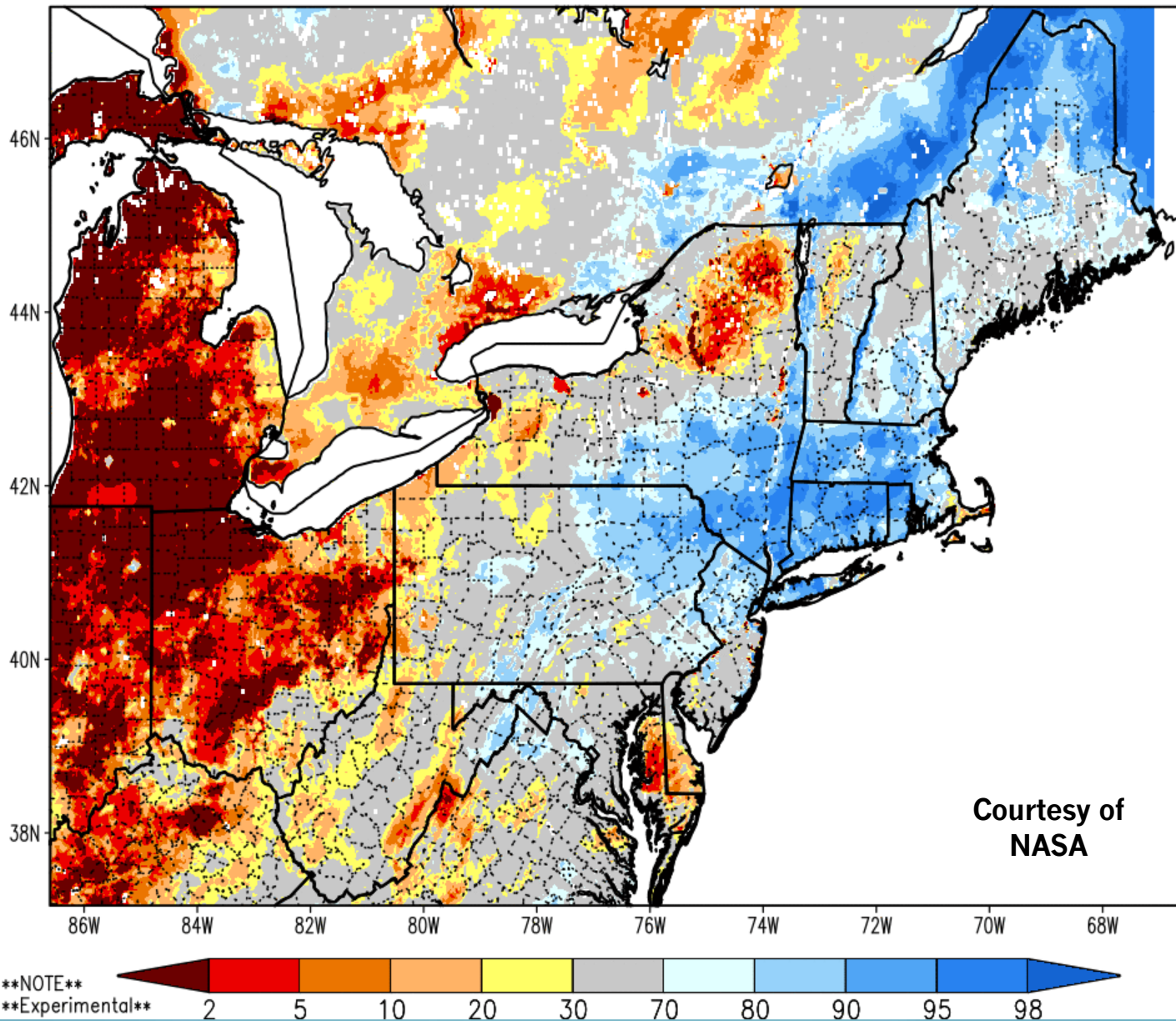
Drought categories

Wetness categories

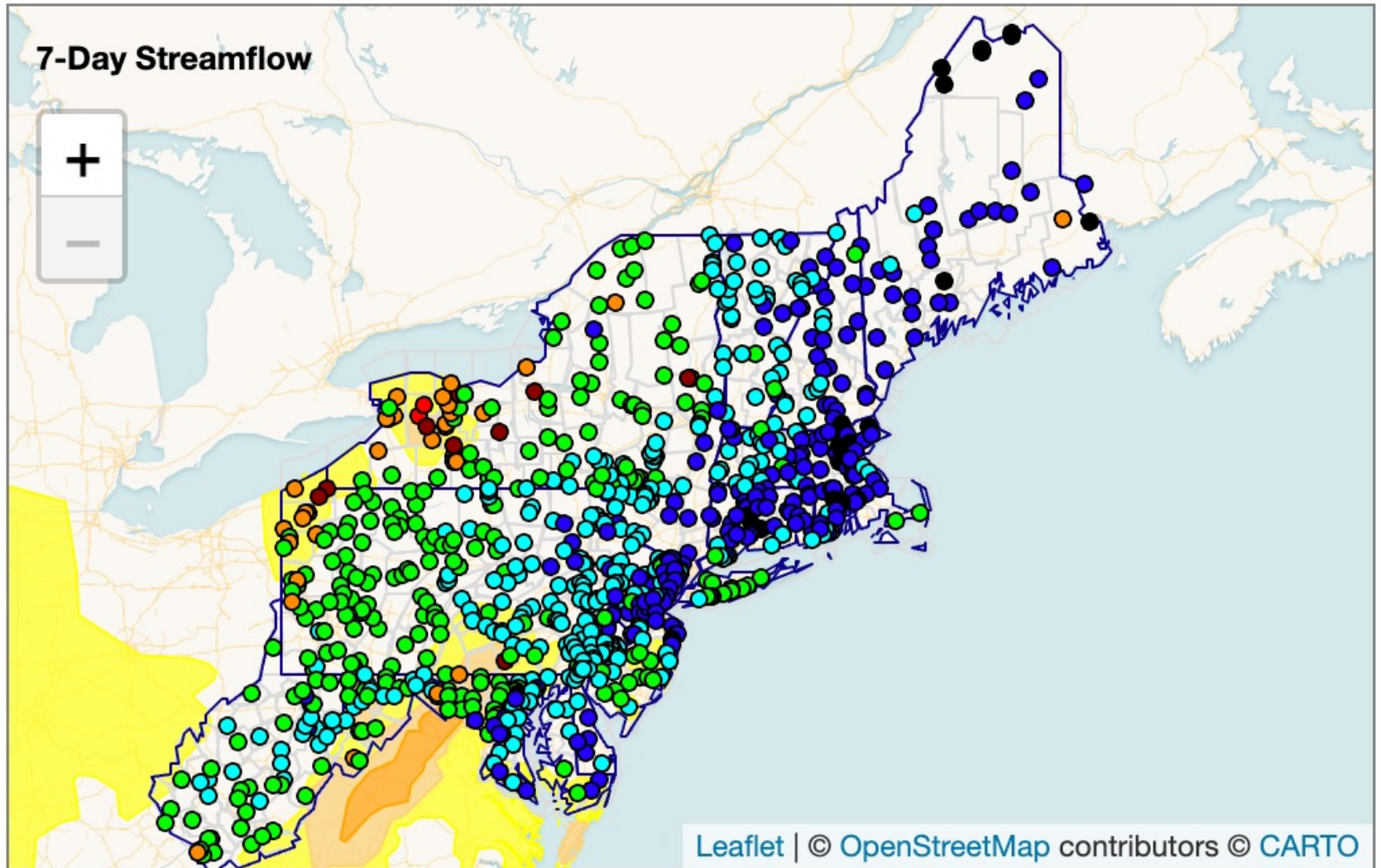


Soil Moisture

SPoRT-LIS 0-100 cm Soil Moisture percentile valid 28 Sep 2023



Streamflow



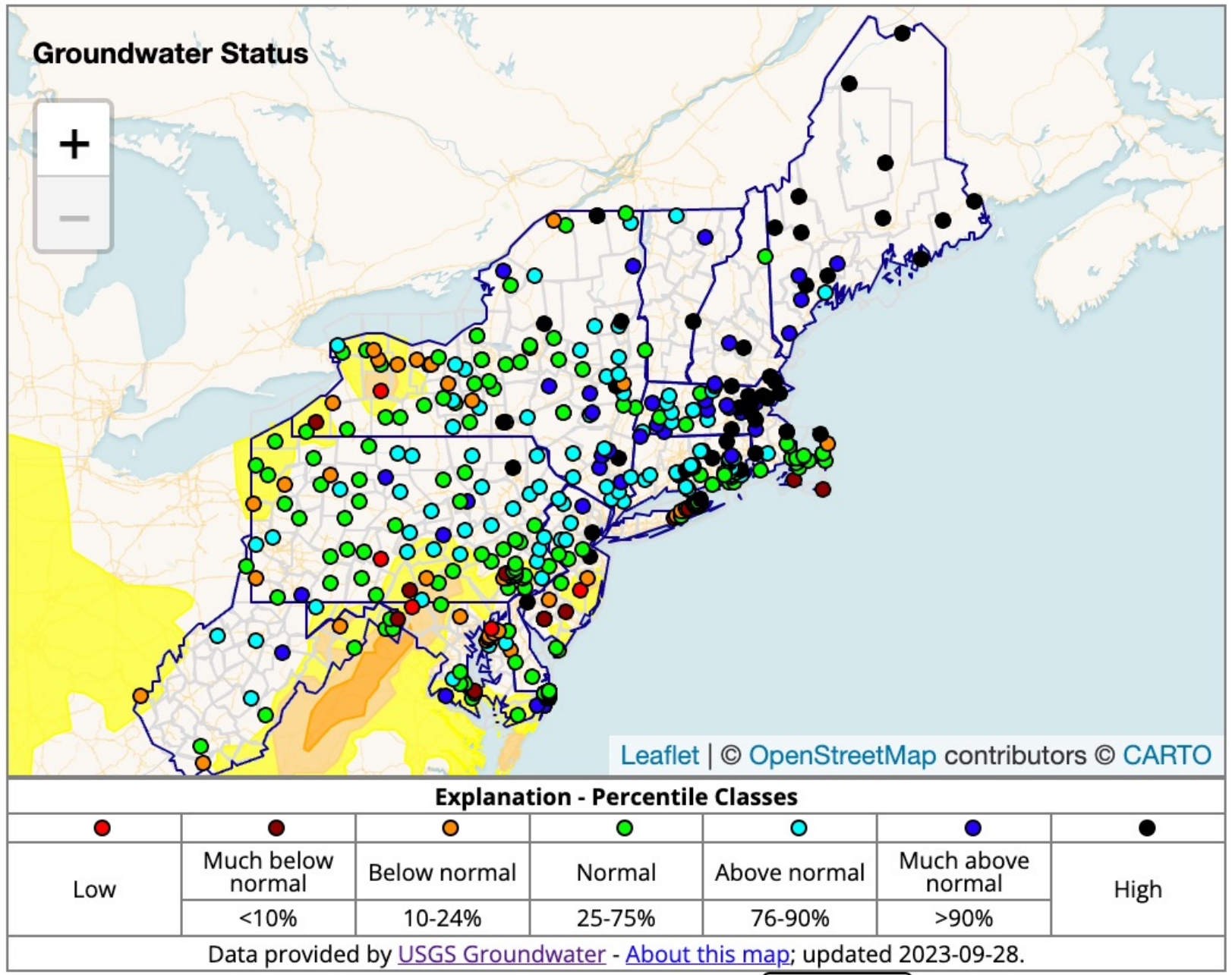
Explanation - Percentile Classes

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 2023-09-27.

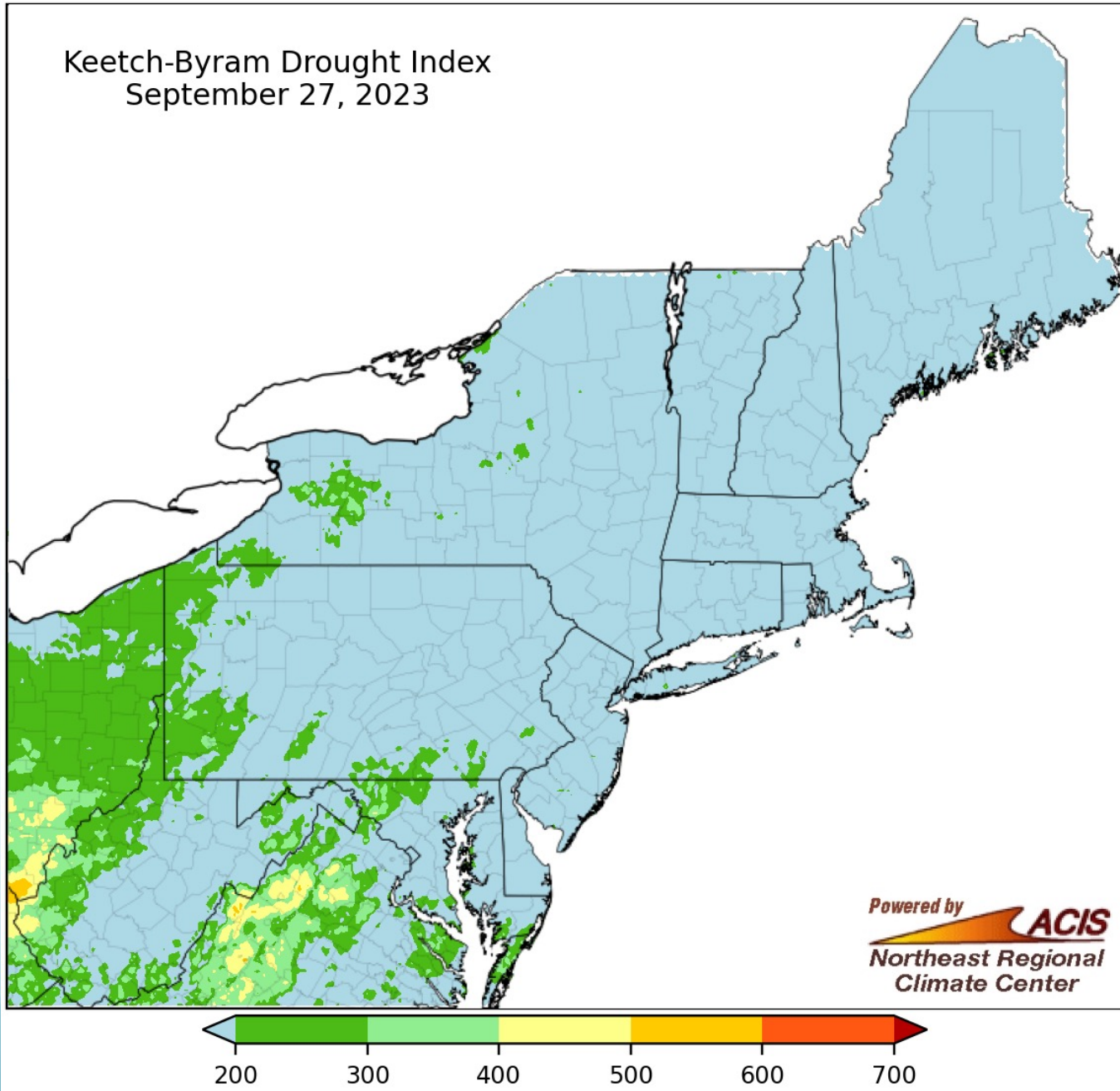


Groundwater

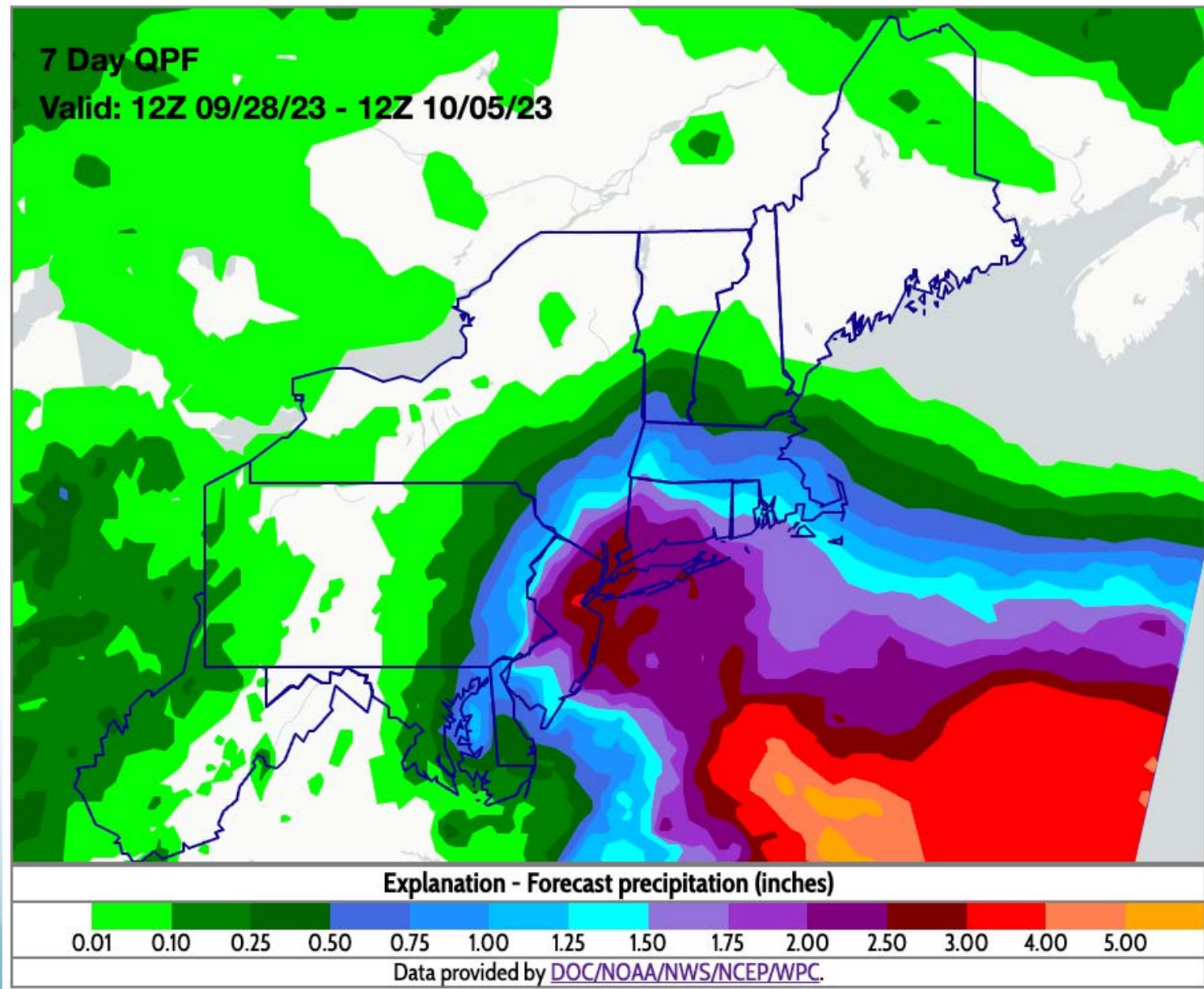


Wildfire Risk

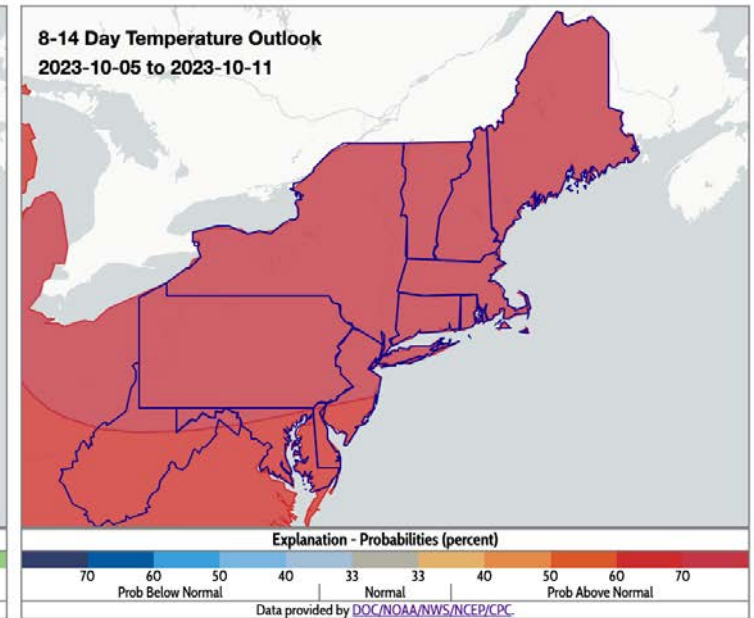
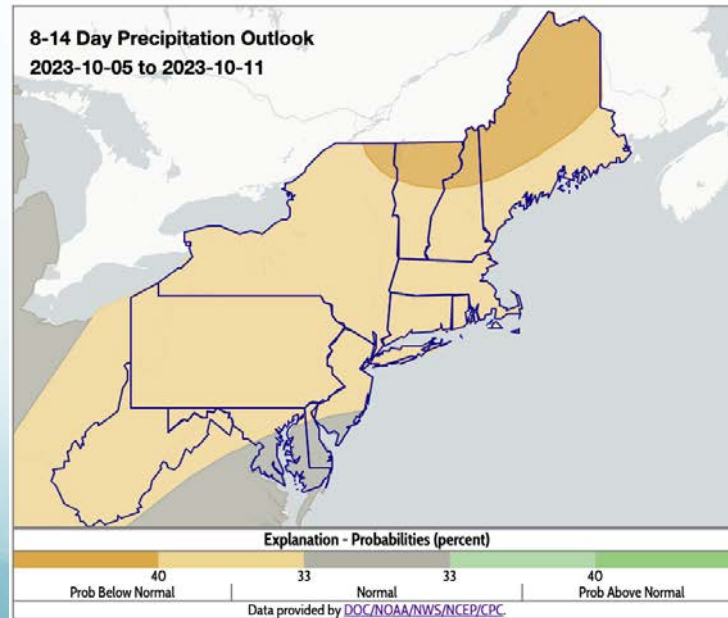
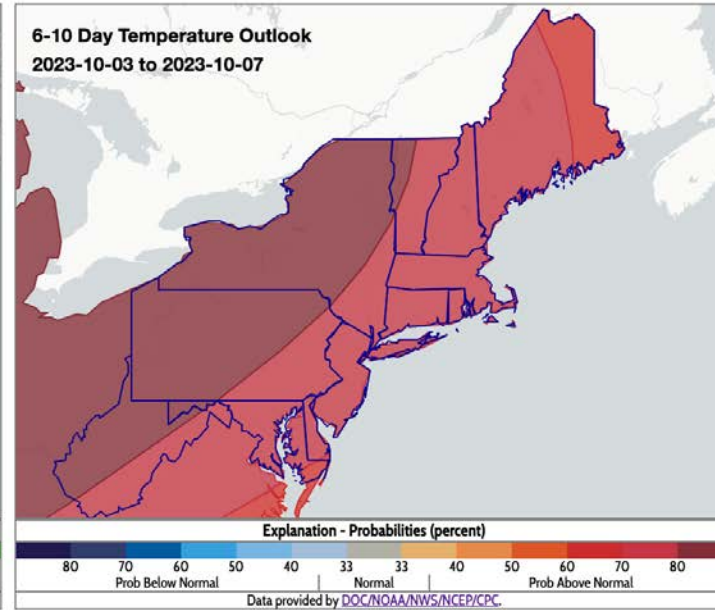
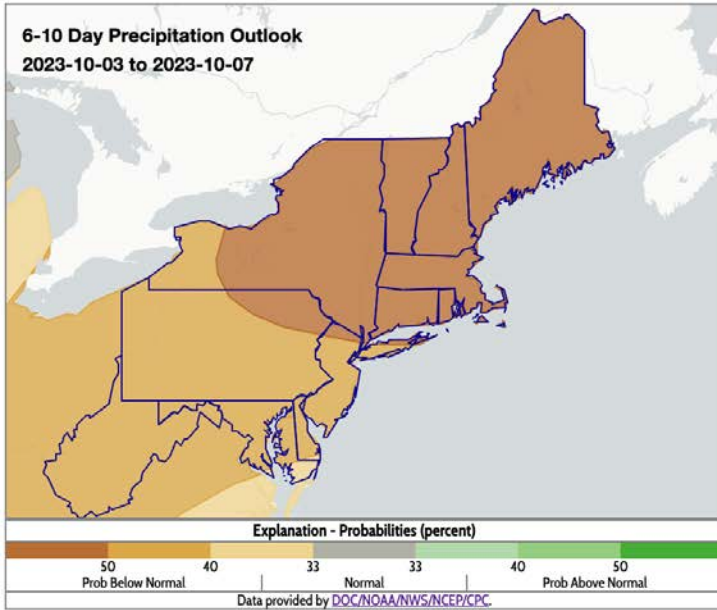
Keetch-Byram Drought Index
September 27, 2023



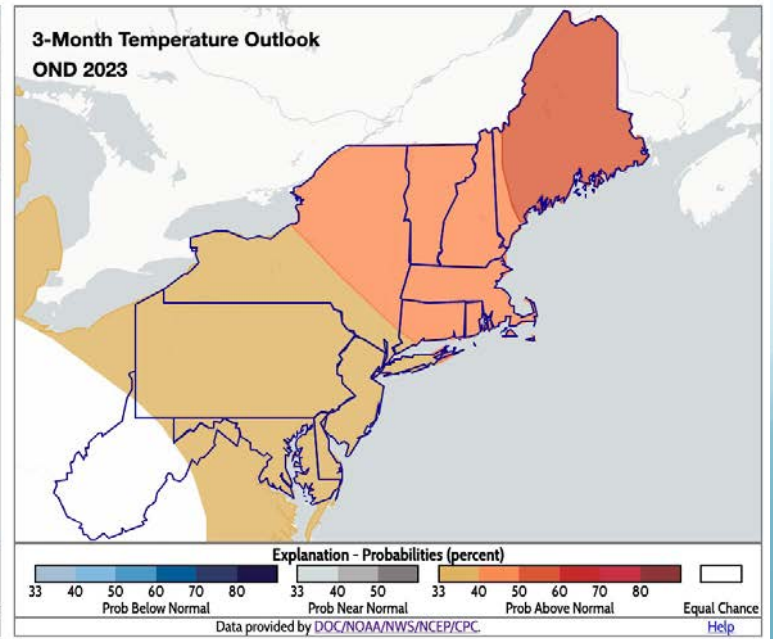
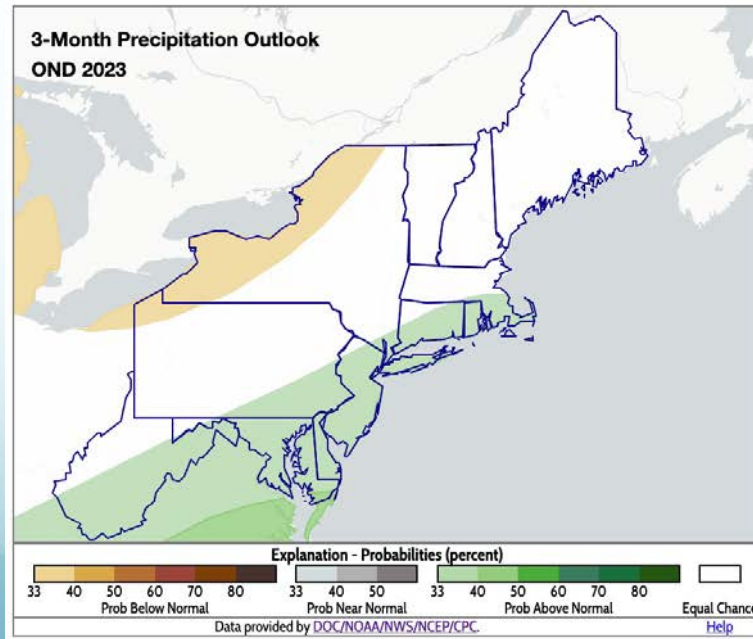
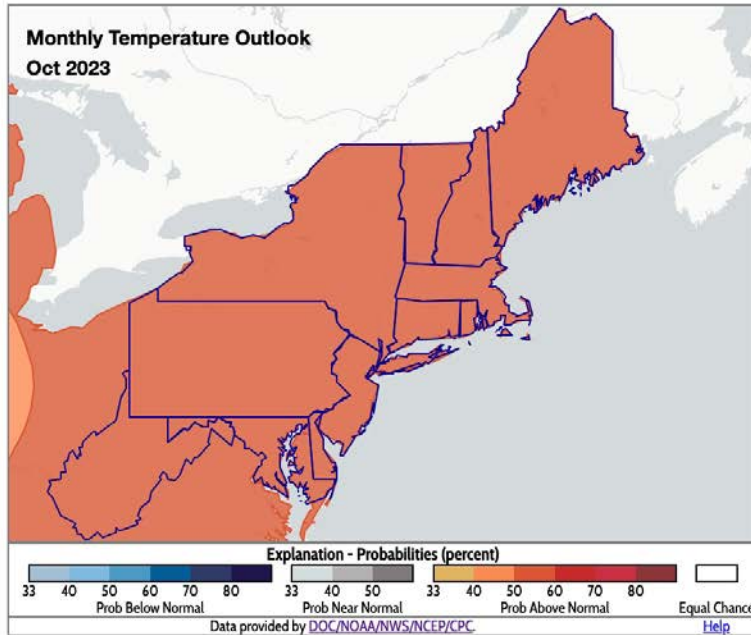
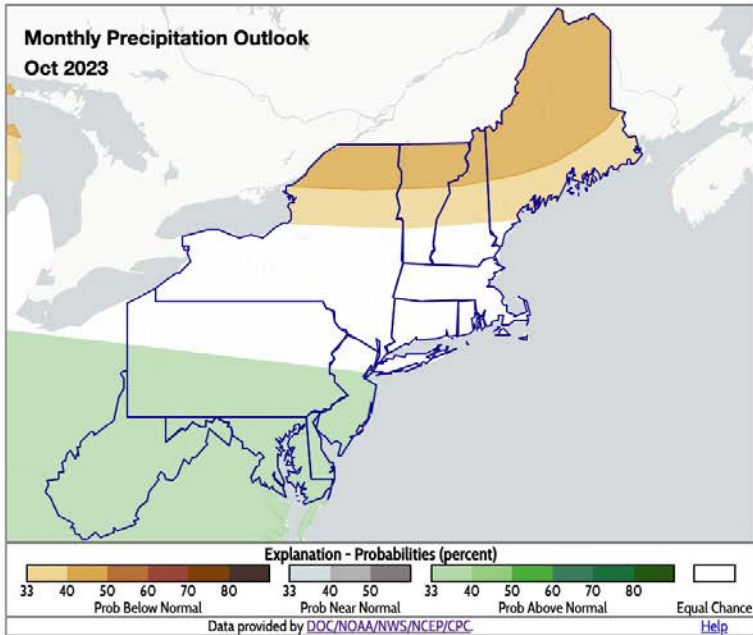
Precipitation Forecast



Short-term Outlooks



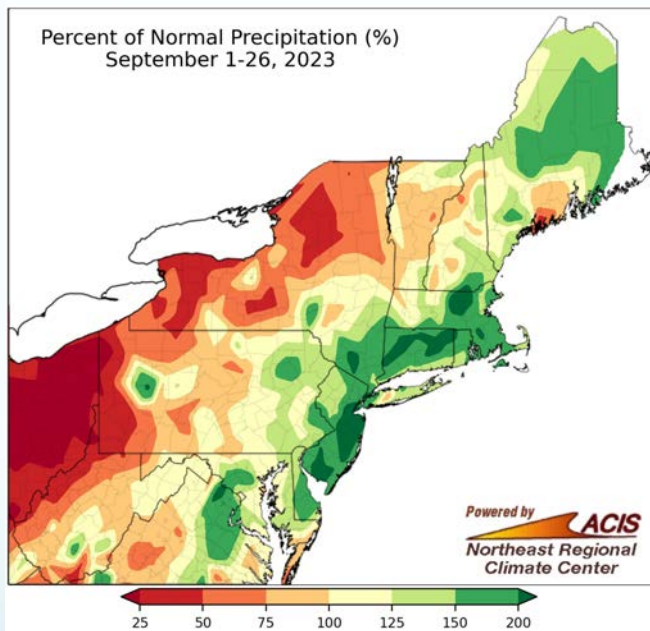
Monthly & 3-Month Outlooks



Summary

September-to-date conditions:

- Near- or above-normal temperatures for most
- Below-normal precipitation for interior areas; Above-normal precipitation for coastal areas



Drought:

- Drought and dryness contracted in parts of the Mid-Atlantic but expanded in parts of western New York and western Pennsylvania

Outlooks:

- Short-term: below- or near-normal precipitation and above-normal temperatures are favored
- Oct and Oct-Dec: Tilt toward dry in some northern and western areas and tilt toward wet for some southern and coastal areas



Contact Information

- nrcc@cornell.edu

Upcoming Webinars

- Autumn ACIS Fridays 1-2pm EDT
 - Oct. 13, Oct. 20, Oct. 27, and Nov. 3
- Tuesday, October 31 at 9:30am EDT
 - Climate Change and Agriculture
- Thursday, November 30 at 9:30am EST
 - ENSO and the Winter Outlook
- Thursday, December 14 at 9:30am EST
 - Coastal Inundation and High Tide Flooding



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