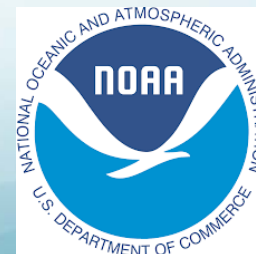


# September Recap & Northeast DEWS Discussion

By: Samantha Borisoff, Climatologist  
Northeast Regional Climate Center



Northeast Regional  
Climate Center



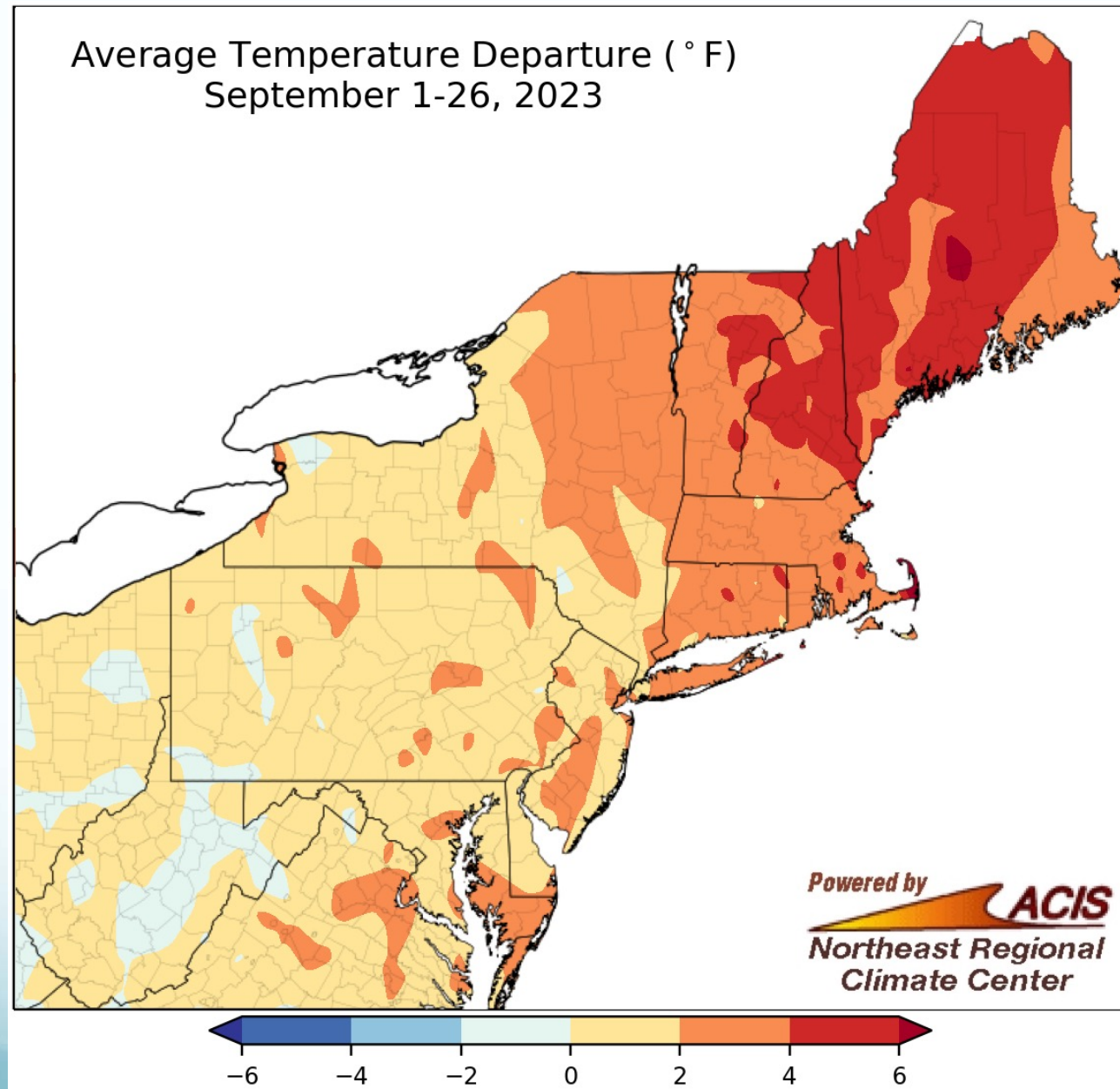
# Early September Warmth

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



Courtesy of NWS PHI

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...](https://forecast.weather.gov/product.php?si...)

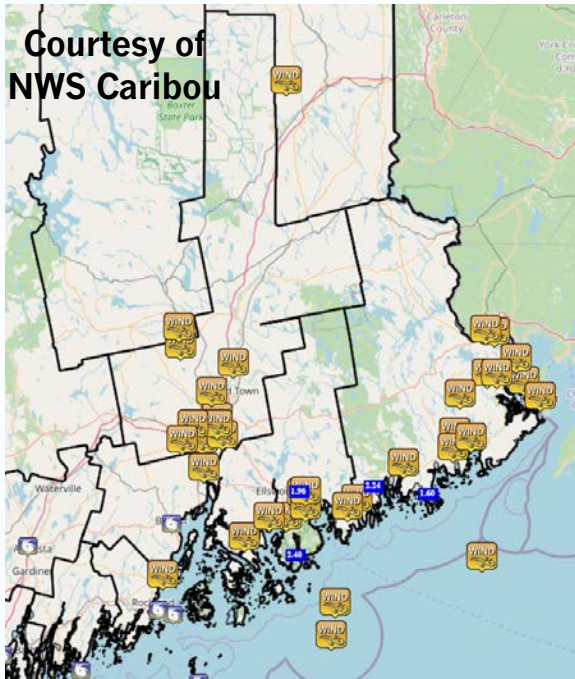
North Attleborough MA Tornado	Lincoln RI Tornado
<b>Preliminary Damage Report</b> Date: September 13, 2023 Time (local): 05:22 PM - 05:25 PM EF Rating: EF-0 Est. Peak Winds: 75 MPH Path Length: 0.07 miles Max Width: 70 yards Injuries/Deaths: 0 Injuries/ 0 Deaths	<b>Preliminary Damage Report</b> Date: September 13, 2023 Time (local): 05:05 PM - 05:09 PM EF Rating: EF-1 Est. Peak Winds: 100 MPH Path Length: 0.22 miles Max Width: 60 yards Injuries/Deaths: 0 Injury/ 0 Deaths
Glocester RI Tornado	Killingly CT to Foster RI Tornado
<b>Preliminary Damage Report</b> Date: September 13, 2023 Time (local): 04:20 PM - 04:28 PM EF Rating: EF-1 Est. Peak Winds: 100 MPH Path Length: 0.21 miles Max Width: 150 yards Injuries/Deaths: 0 Injuries/ 0 Deaths	<b>Preliminary Damage Report</b> Date: September 13, 2023 Time (local): 4:00 PM - 4:10 PM EF Rating: EF-1 Est. Peak Winds: 100 MPH Path Length: 1.61 miles Max Width: 70 yards Injuries/Deaths: 0 Injuries/ 0 Deaths

8:07 PM • Sep 14, 2023 • 42.7K Views

Sep 13



# Tropical Systems



Courtesy of NWS Caribou

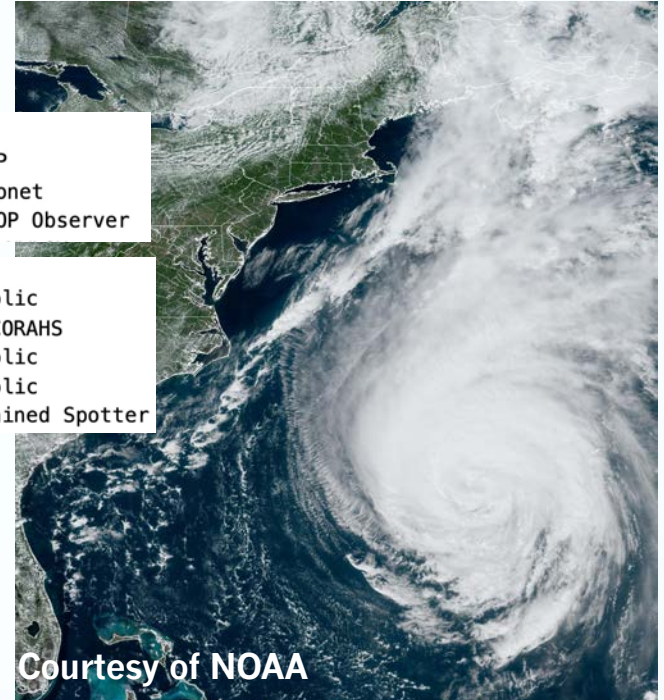
## Hurricane Lee

### ...Hancock County...

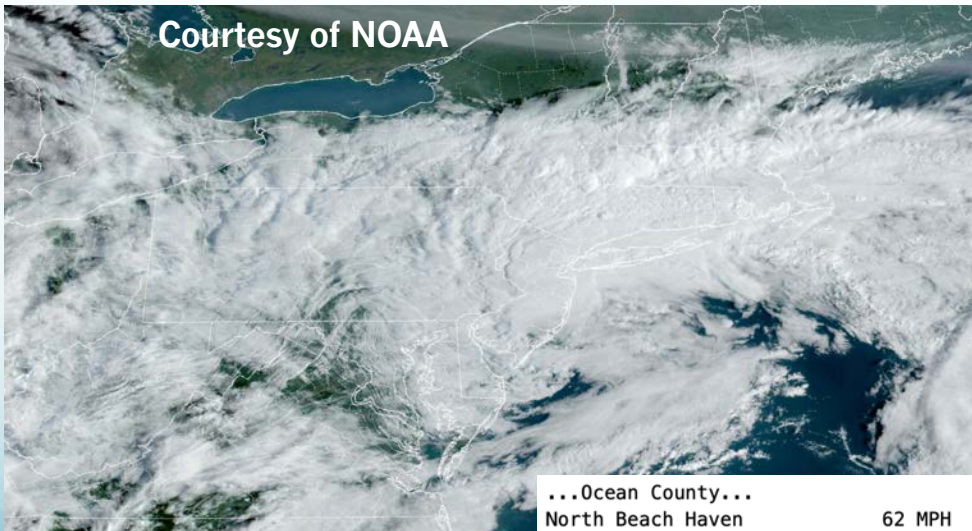
Sedgwick Ridge	55 MPH	0730 AM 09/16	CWOP
4 ENE Brooksville	55 MPH	0730 AM 09/16	Mesonet
East Surry	53 MPH	0436 PM 09/16	CO-OP Observer

### ...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

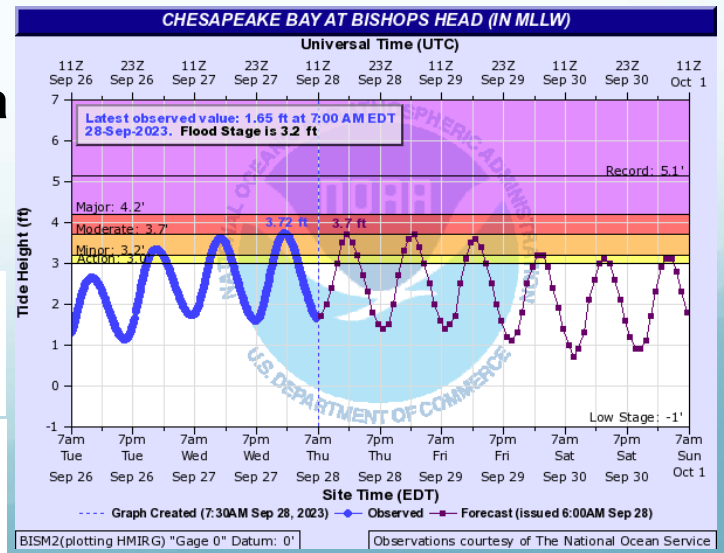
## T.S. Ophelia

### ...Ocean County...

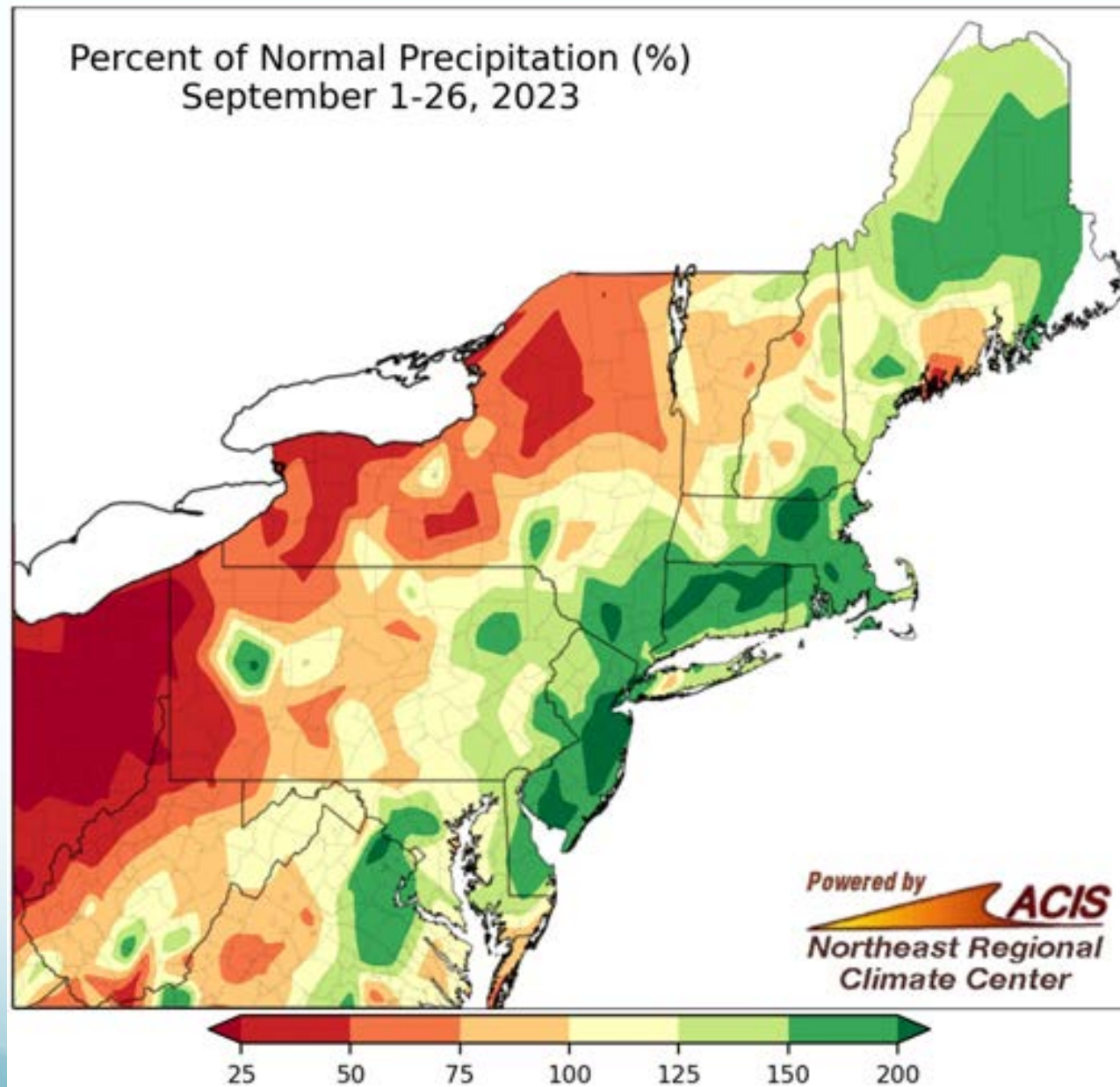
North Beach Haven	62 MPH	0530 AM 09/23	CWOP
Tuckerton	61 MPH	1020 AM 09/23	WXFLOW
Seaside Heights	59 MPH	1203 PM 09/23	WXFLOW
2 SSW Seaside Park	58 MPH	0839 AM 09/23	Mesonet

### ...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

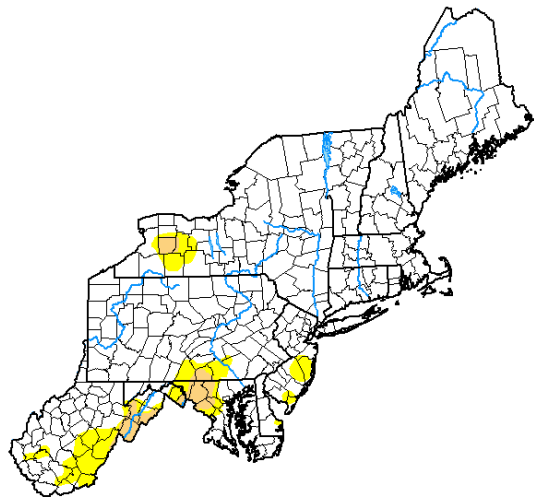


From 25% of normal to more than 200% of normal



# 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
<b>Current</b>	91.45	6.27	2.26	0.02	0.00	0.00
<b>Last Week</b> 08-22-2023	89.84	8.55	1.61	0.00	0.00	0.00
<b>3 Months Ago</b> 05-30-2023	50.39	47.26	2.35	0.00	0.00	0.00
<b>Start of Calendar Year</b> 01-03-2023	90.64	9.16	0.21	0.00	0.00	0.00
<b>Start of Water Year</b> 09-27-2022	69.23	17.83	9.11	3.70	0.14	0.00
<b>One Year Ago</b> 08-30-2022	40.91	35.33	12.75	9.02	1.98	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>

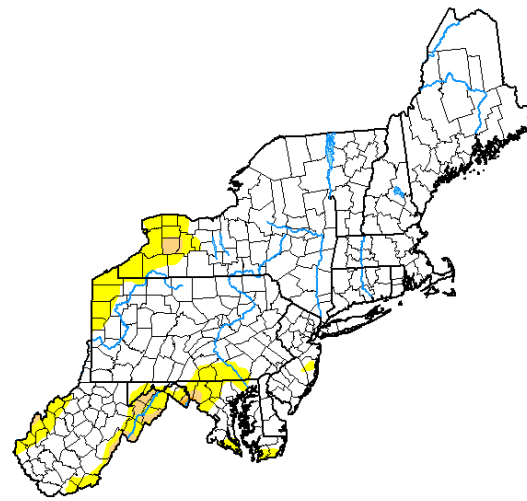
**Author:**

David Simeral  
Western Regional Climate Center



[droughtmonitor.unl.edu](https://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
<b>Current</b>	88.48	10.08	1.36	0.08	0.00	0.00
<b>Last Week</b> 09-19-2023	86.71	10.72	2.48	0.09	0.00	0.00
<b>3 Months Ago</b> 06-27-2023	34.94	39.89	23.80	1.37	0.00	0.00
<b>Start of Calendar Year</b> 01-03-2023	90.64	9.16	0.21	0.00	0.00	0.00
<b>Start of Water Year</b> 09-27-2022	69.23	17.83	9.11	3.70	0.14	0.00
<b>One Year Ago</b> 08-30-2022	69.23	17.83	9.11	3.70	0.14	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:**

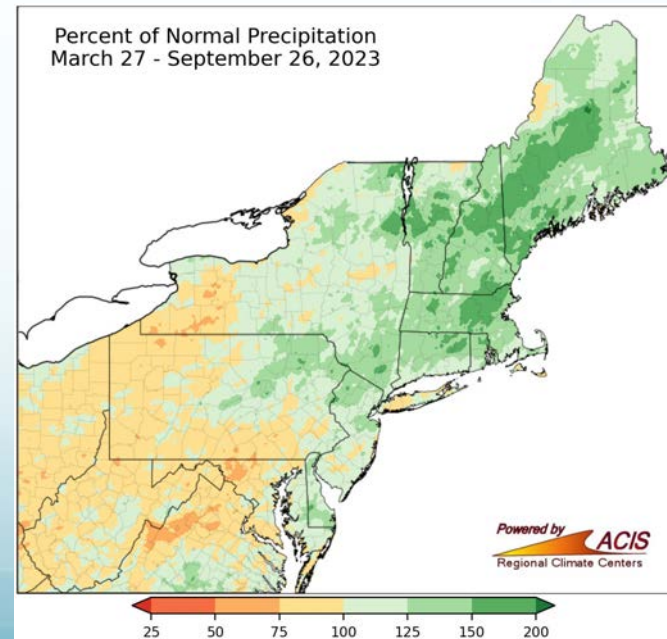
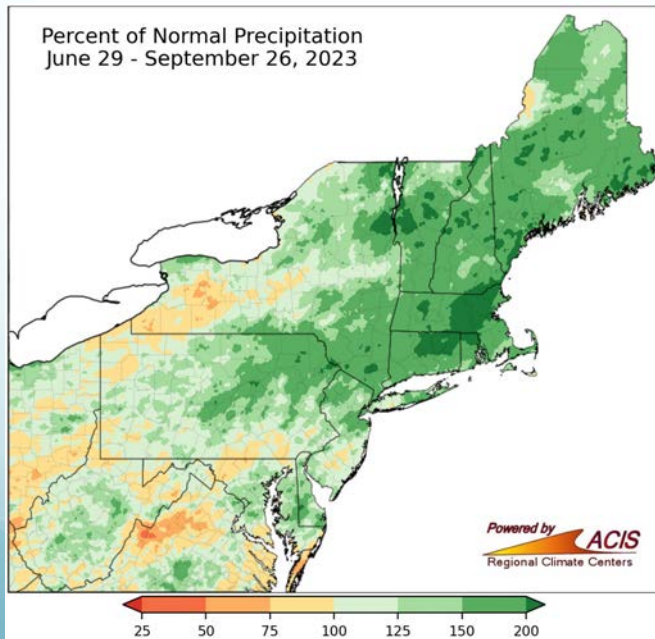
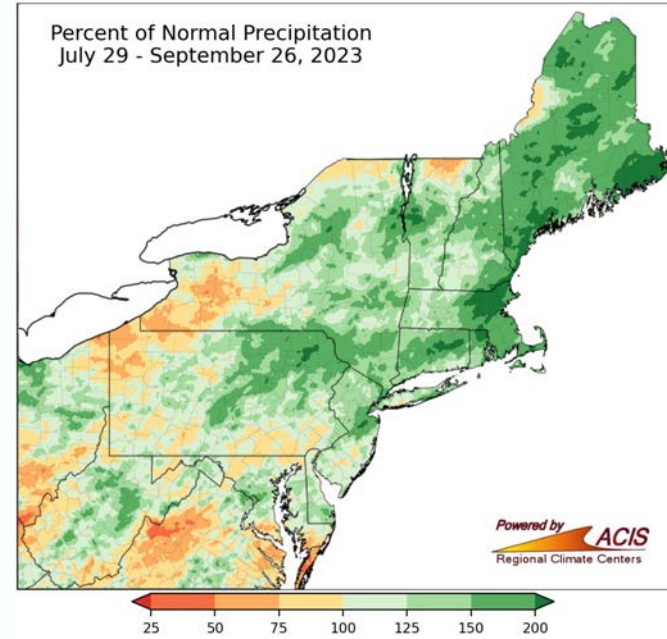
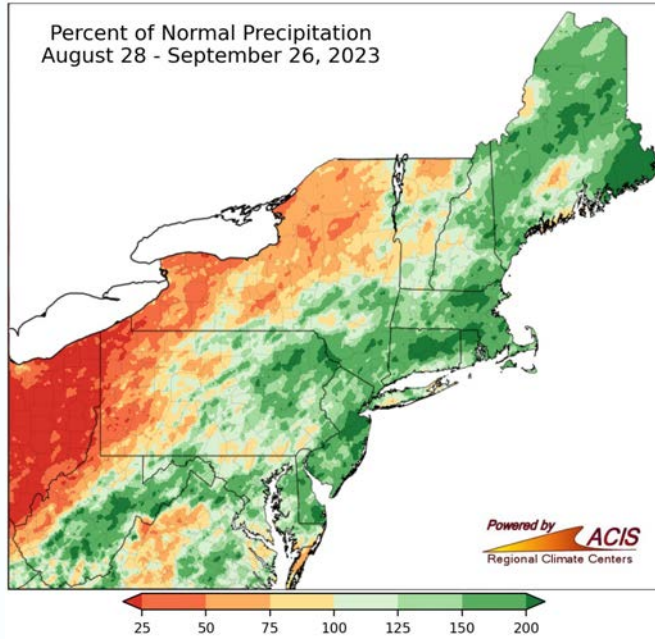
Richard Heim  
NCEI/NOAA



[droughtmonitor.unl.edu](https://droughtmonitor.unl.edu)

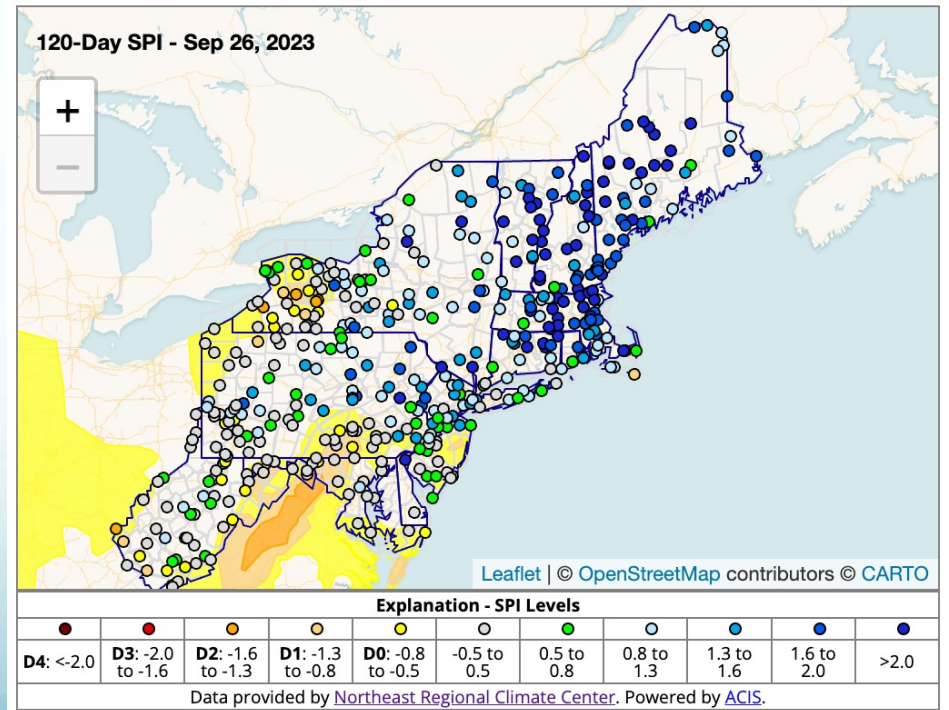
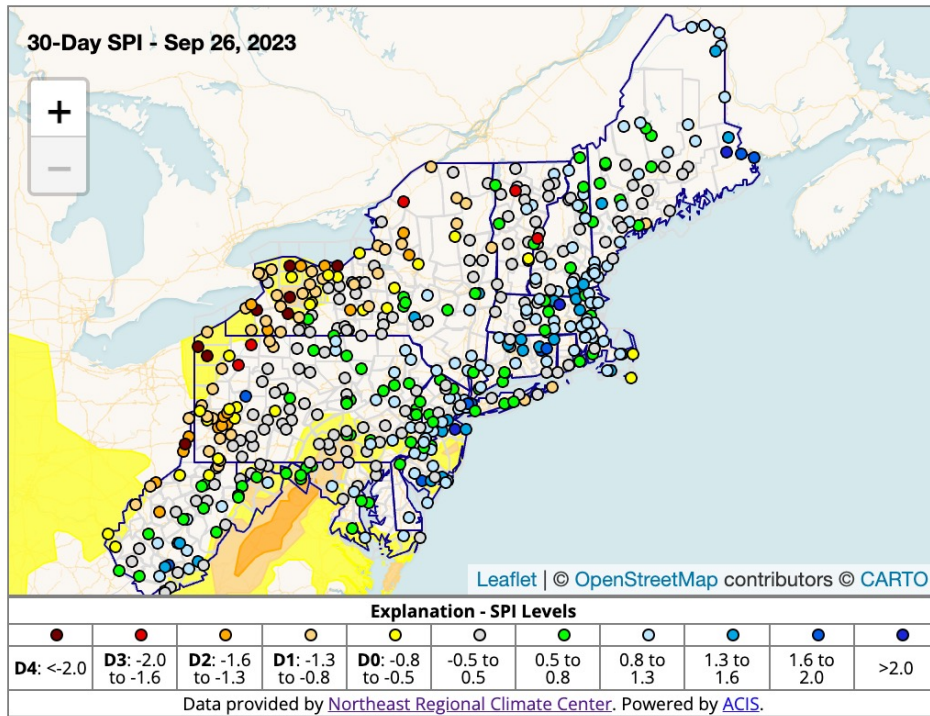


# Precipitation

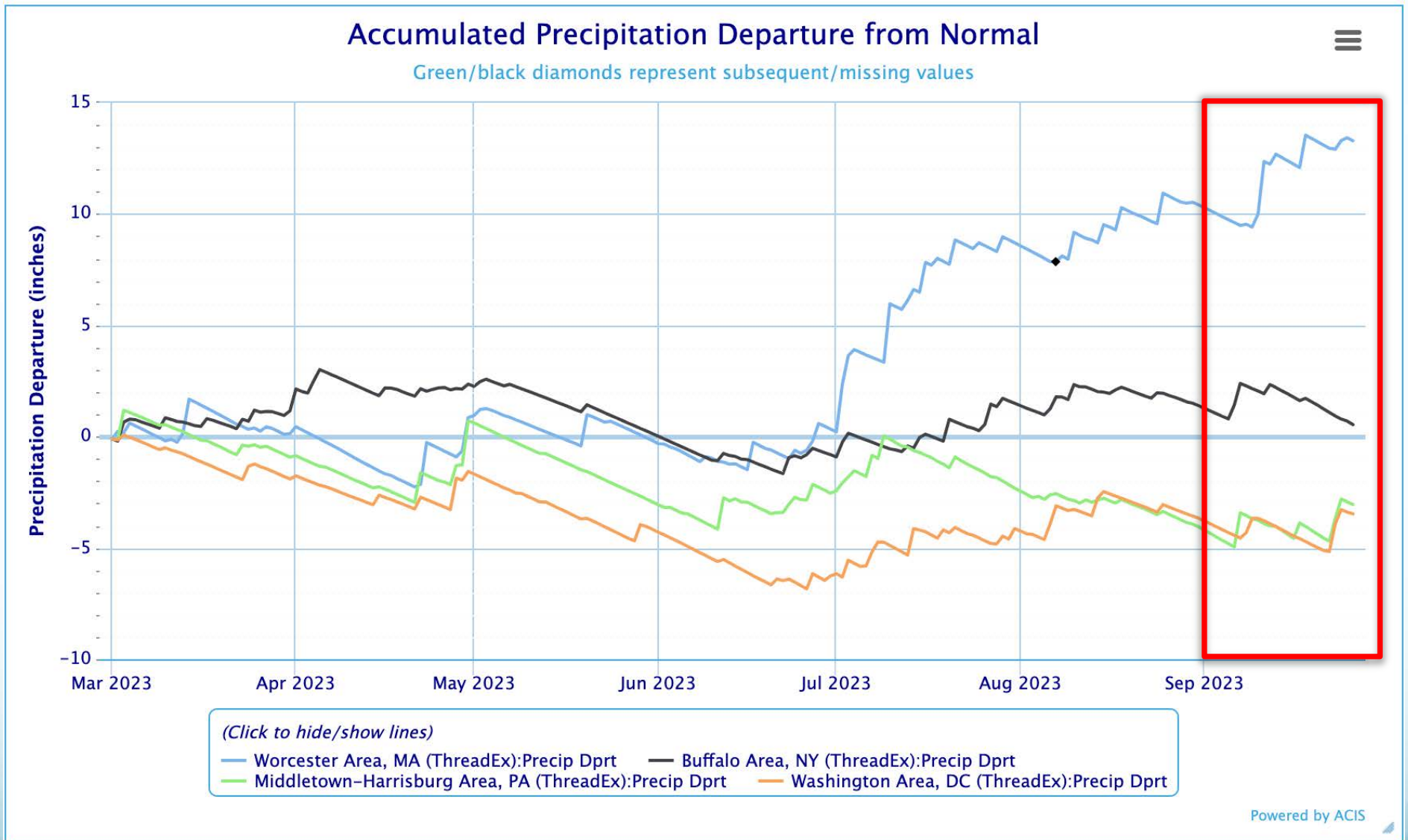




# Standardized Precipitation Index



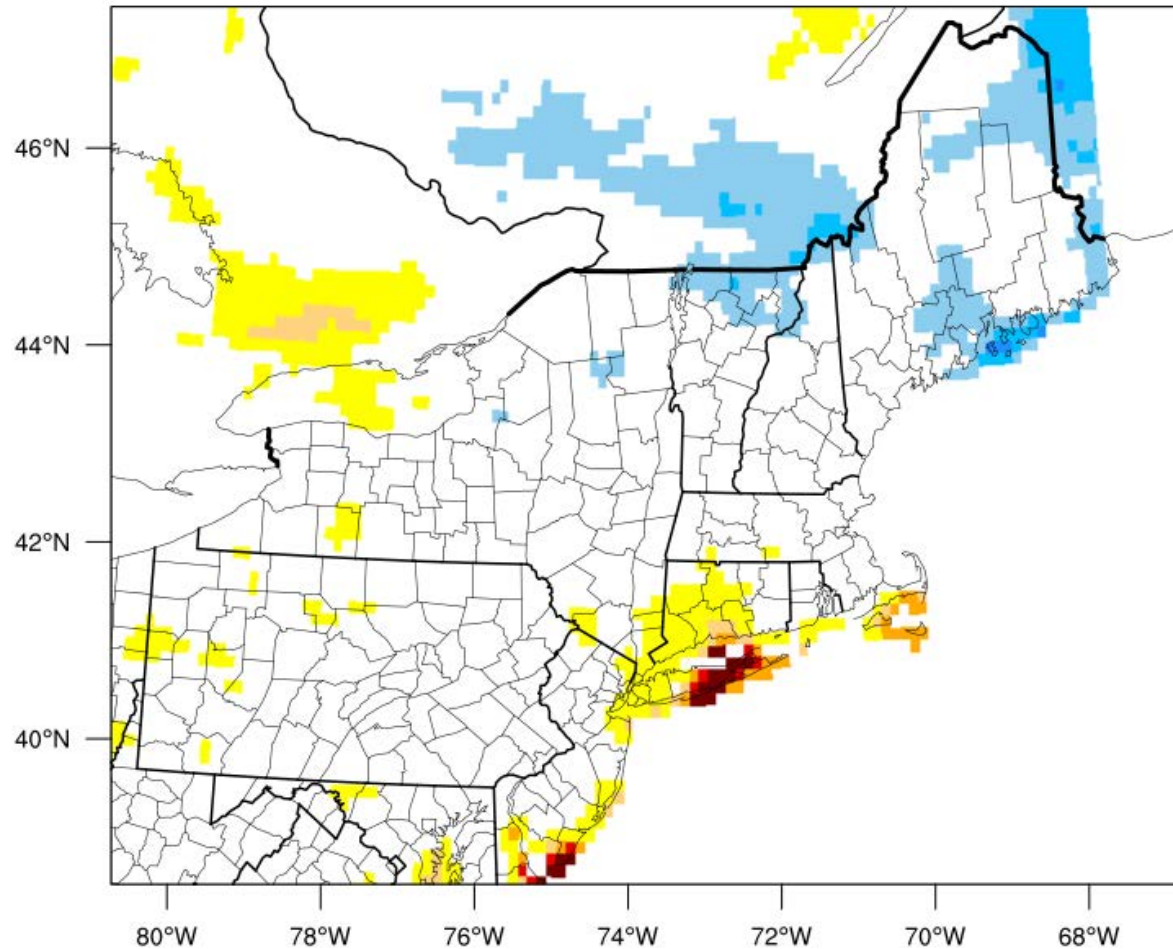
# Precipitation





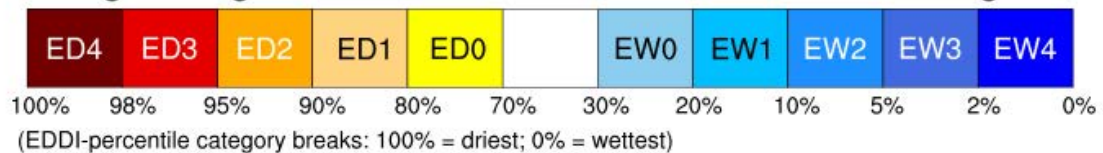
# Evap. Demand Drought Index

1-week EDDI categories for September 22, 2023



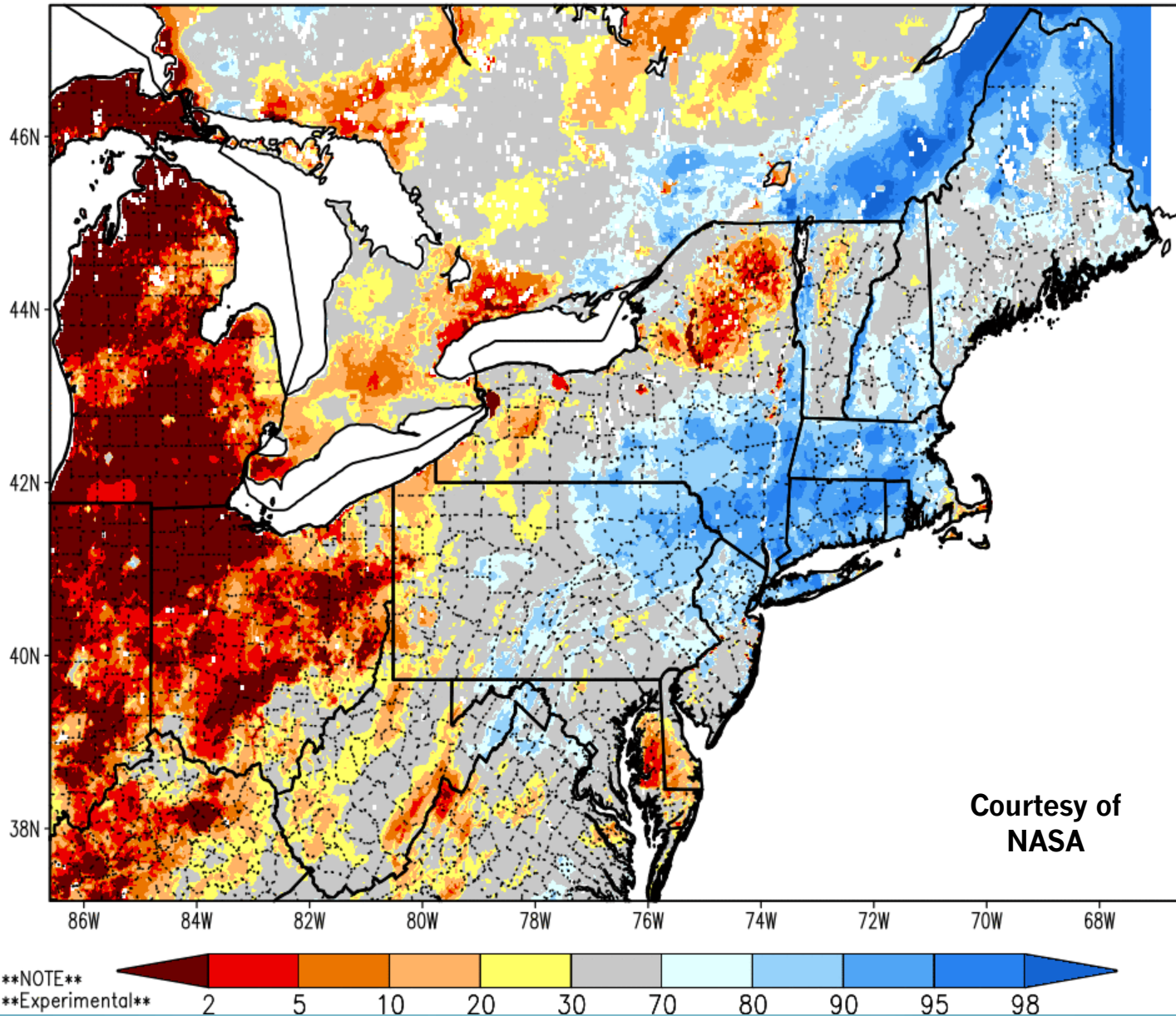
Drought categories

Wetness categories



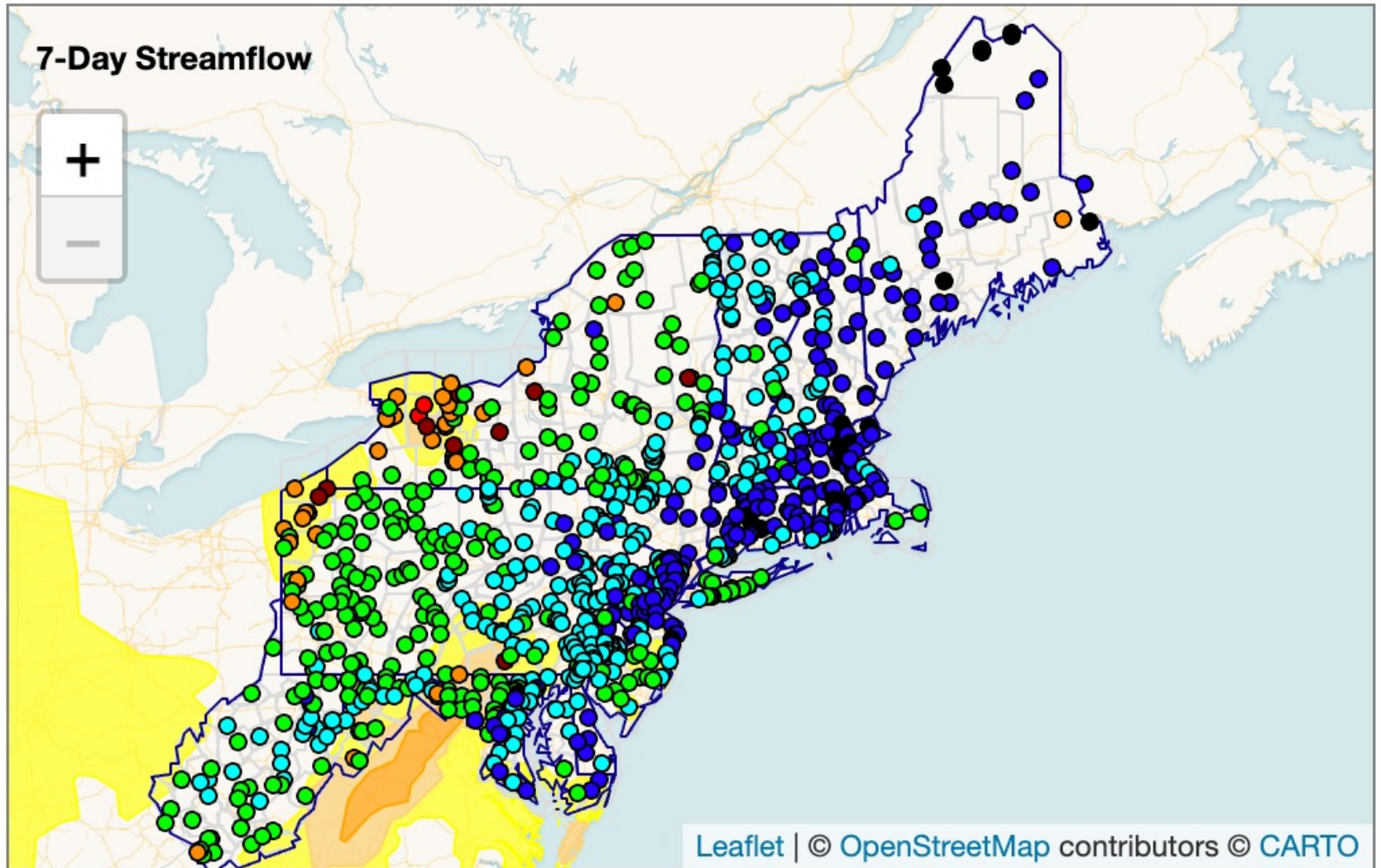
# Soil Moisture

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





# Streamflow



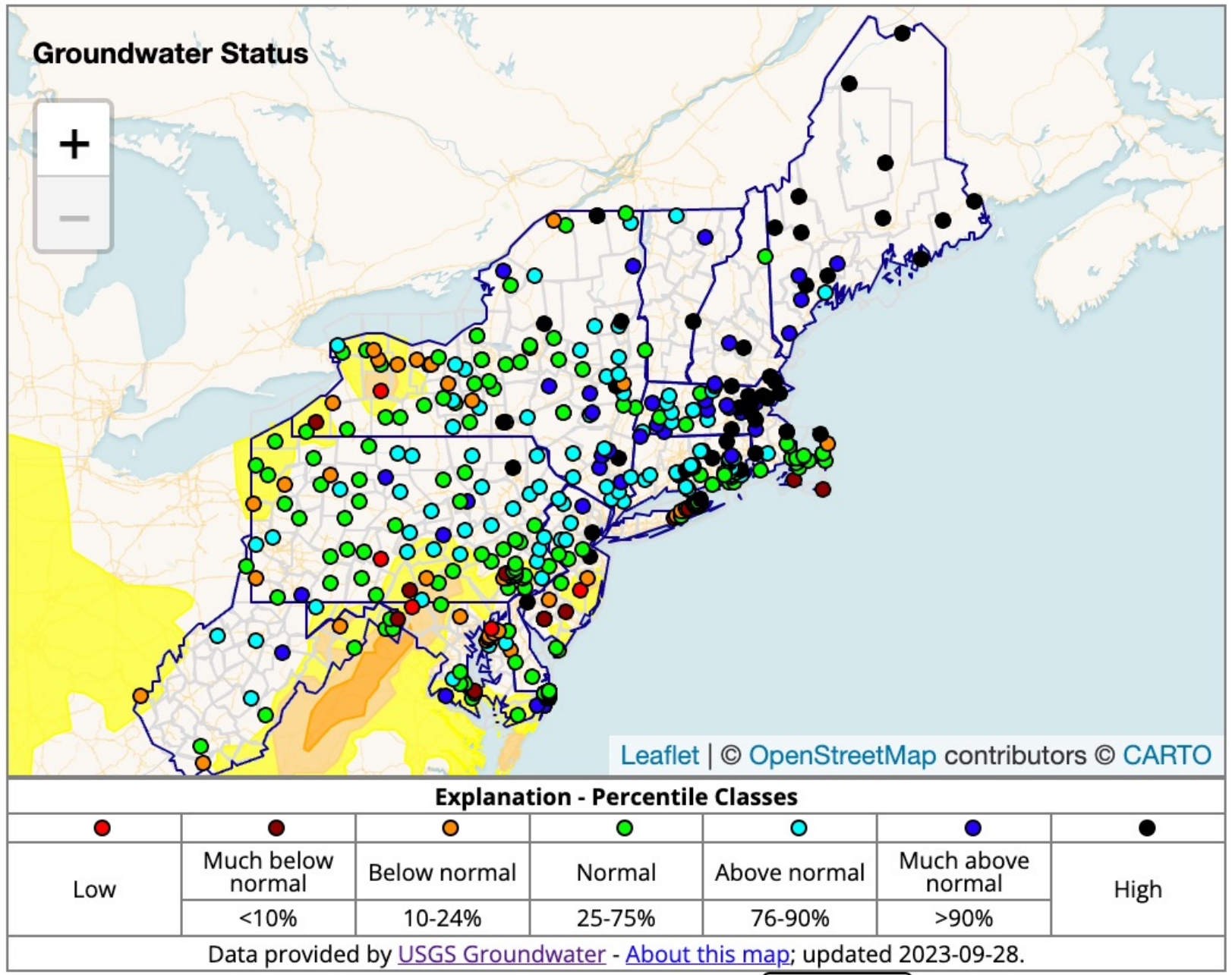
**Explanation - Percentile Classes**

	●	●	●	●	●	●
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.



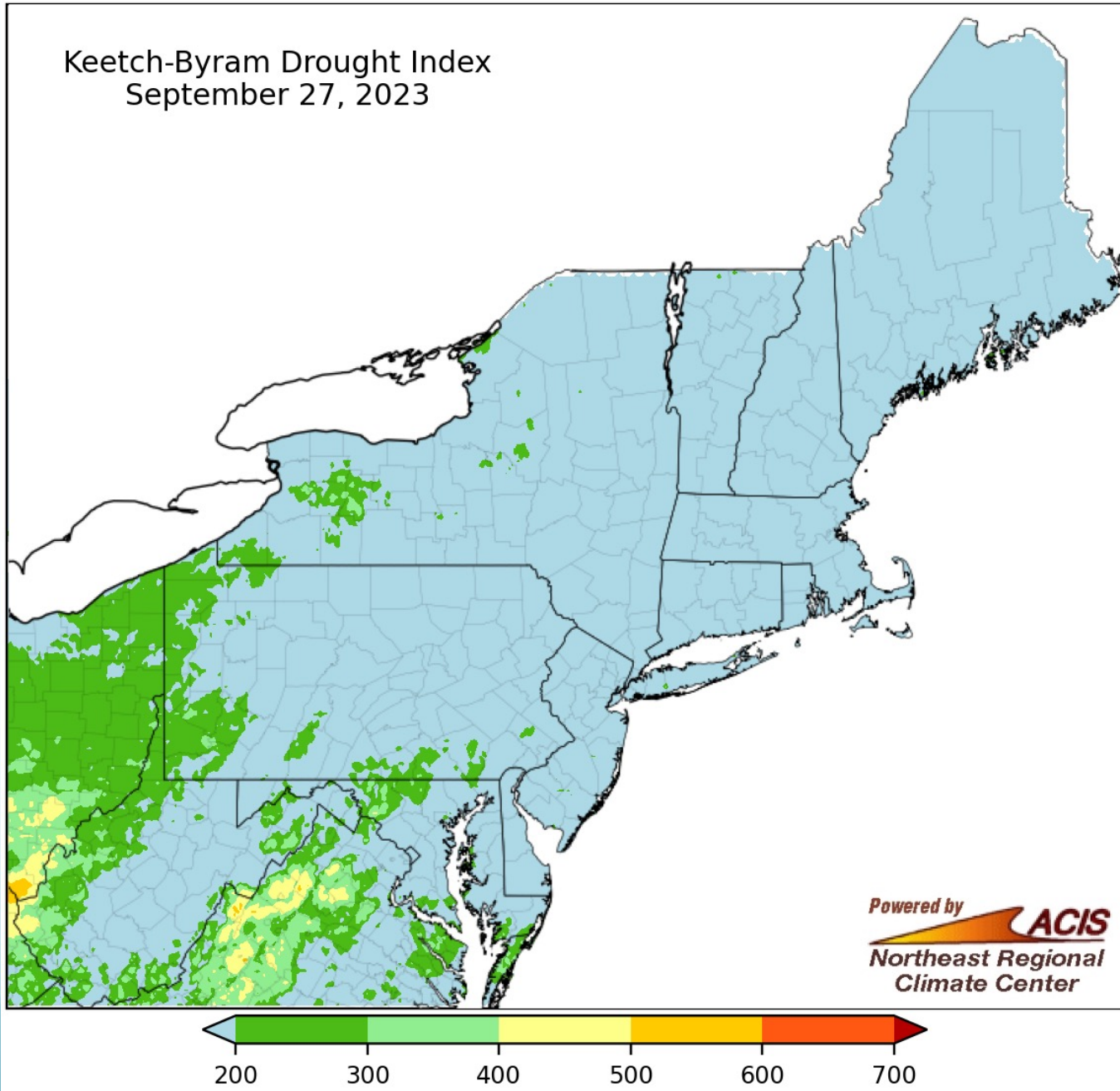
# Groundwater



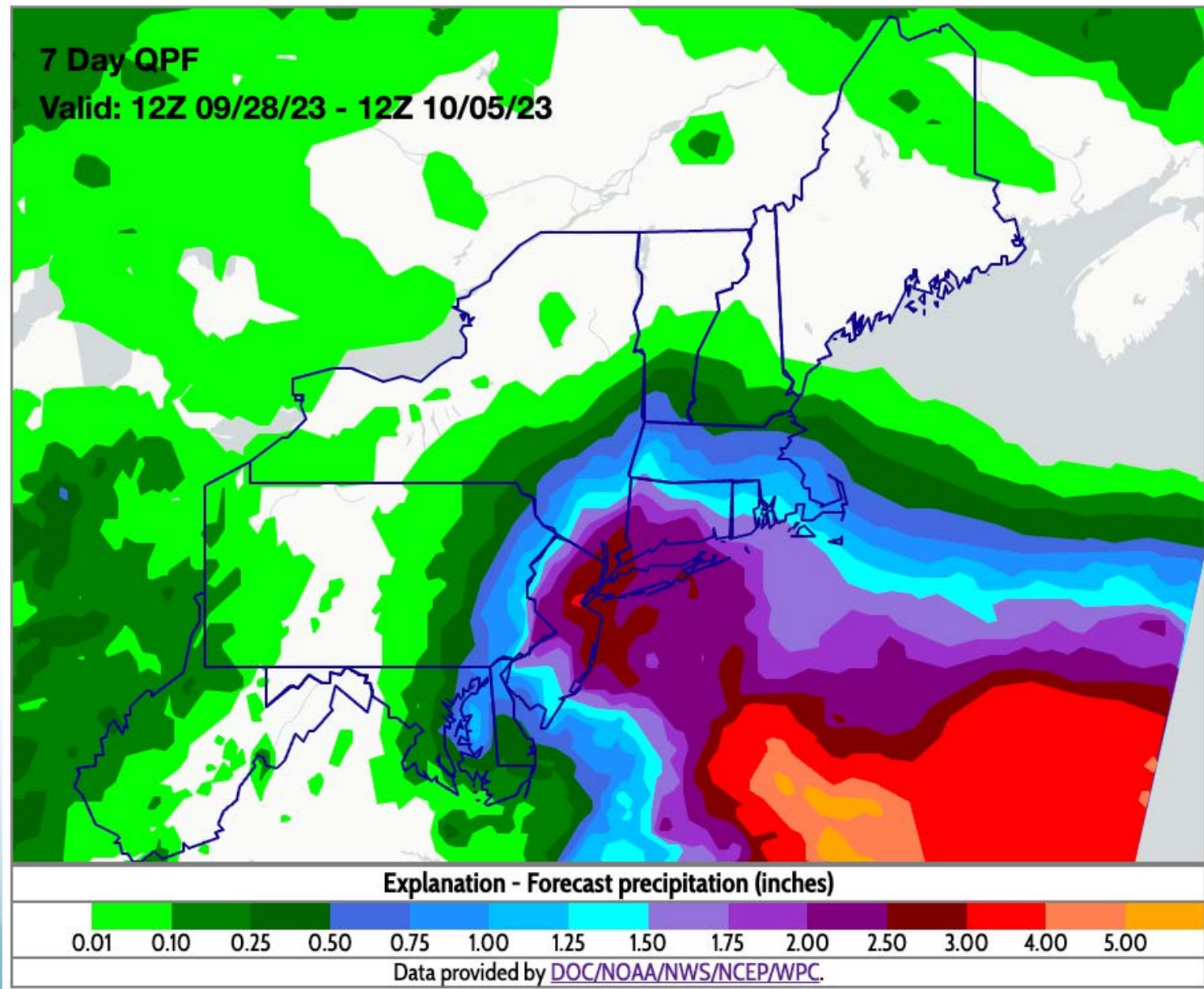


# Wildfire Risk

Keetch-Byram Drought Index  
September 27, 2023

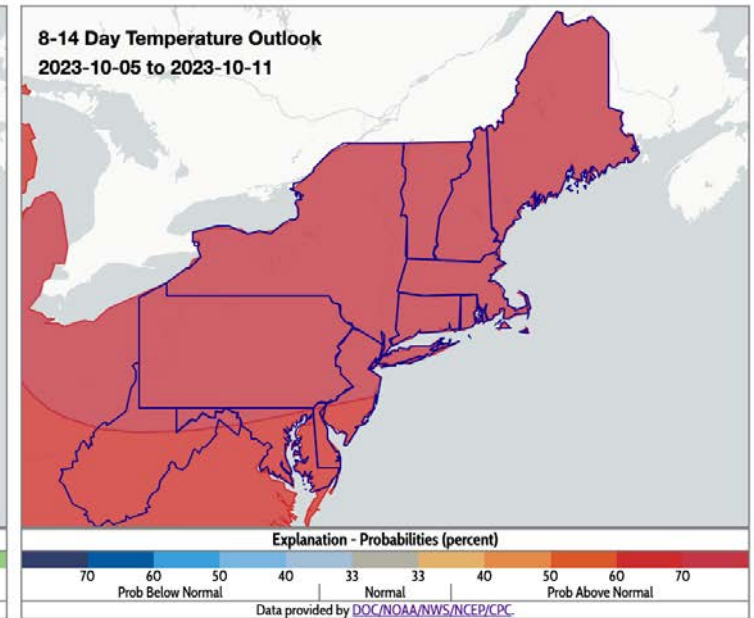
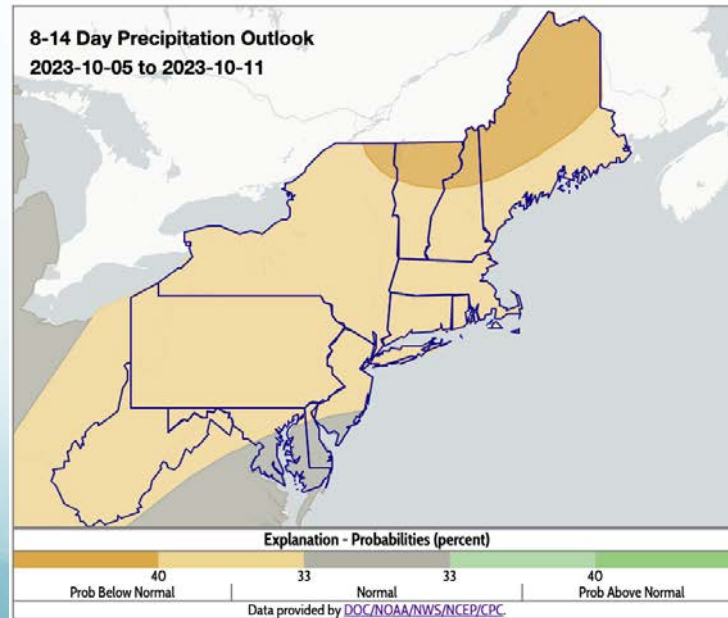
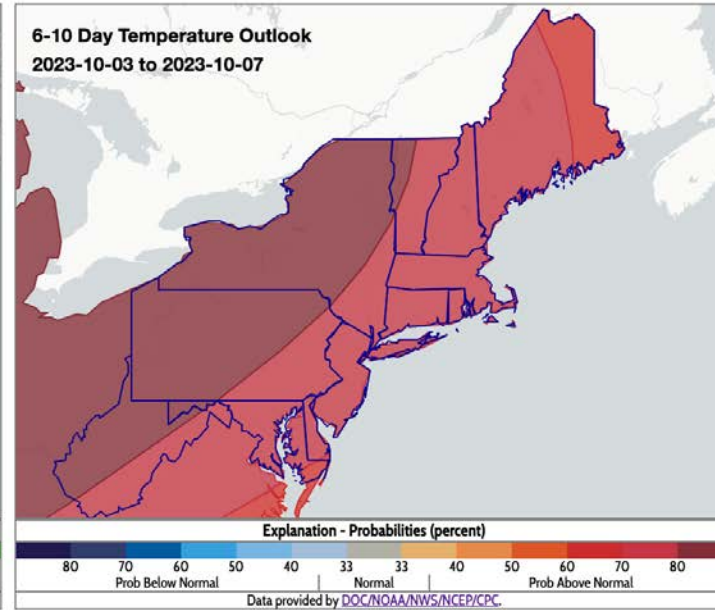
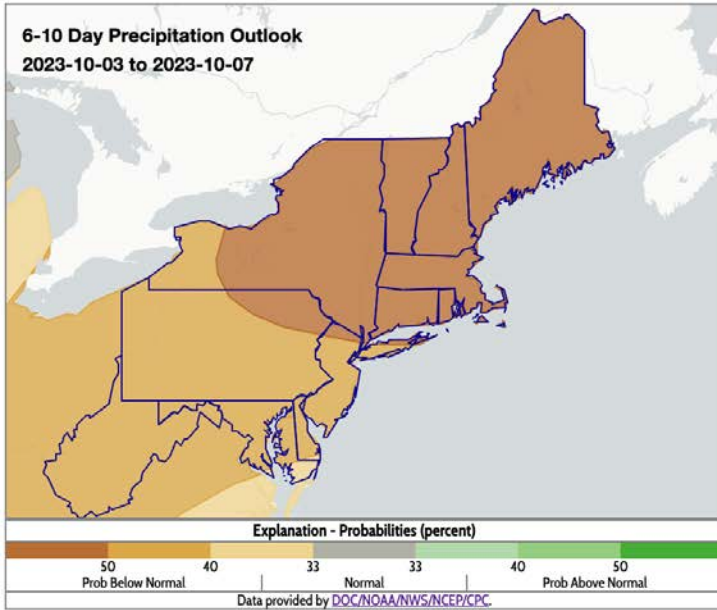


# Precipitation Forecast

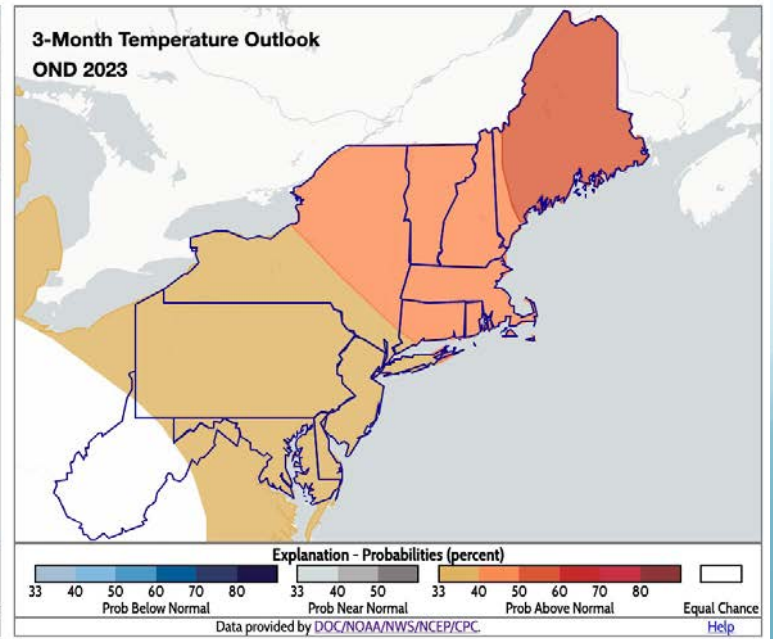
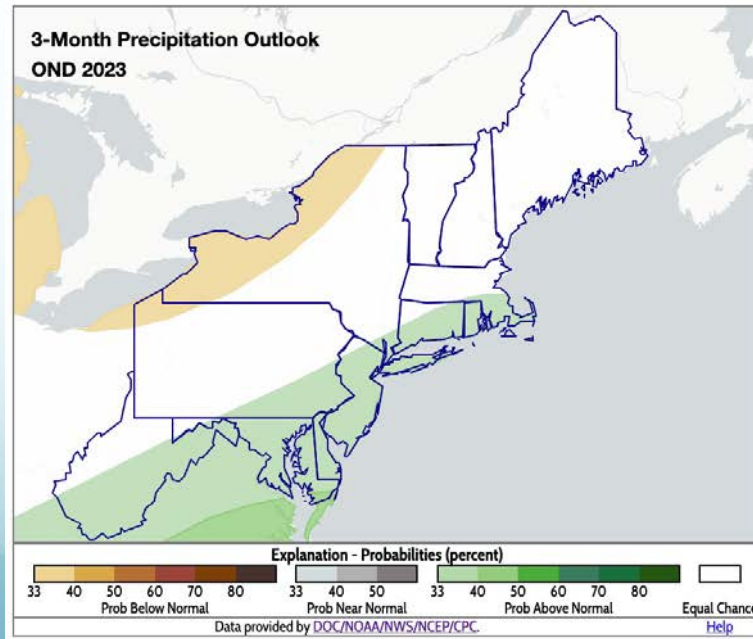
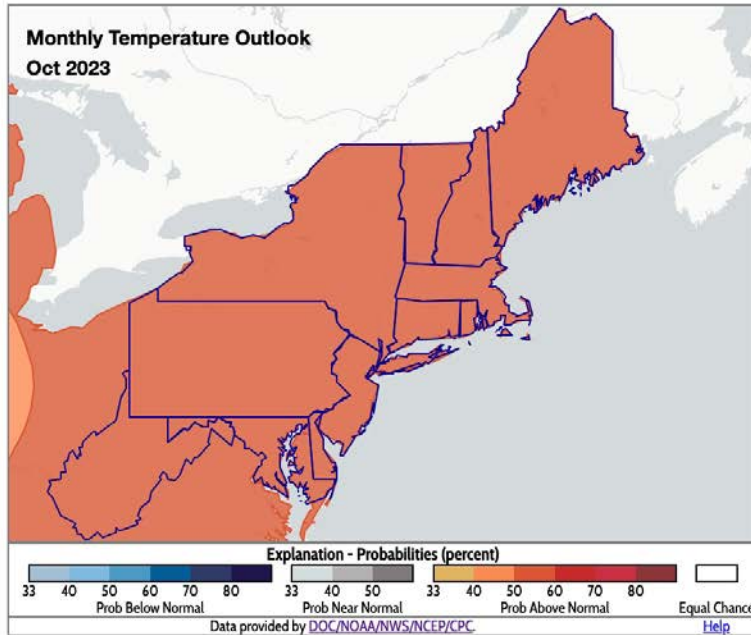
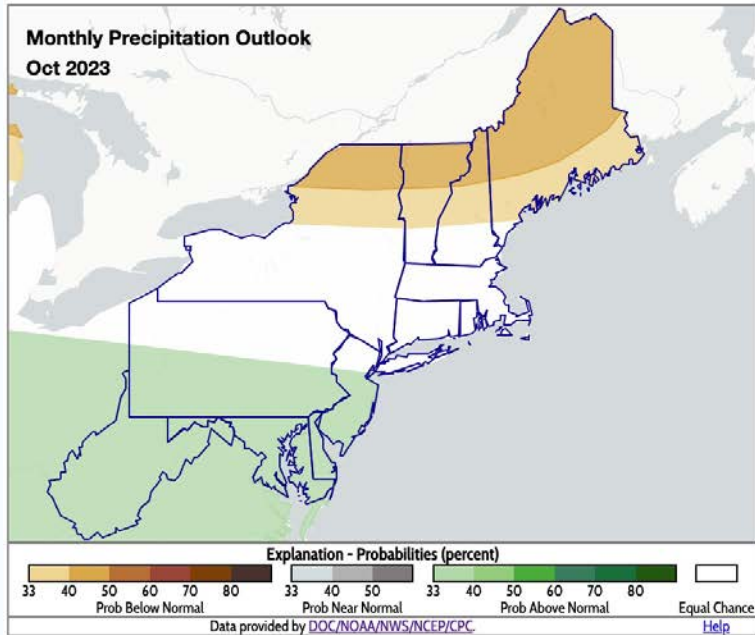




# Short-term Outlooks



# Monthly & 3-Month Outlooks

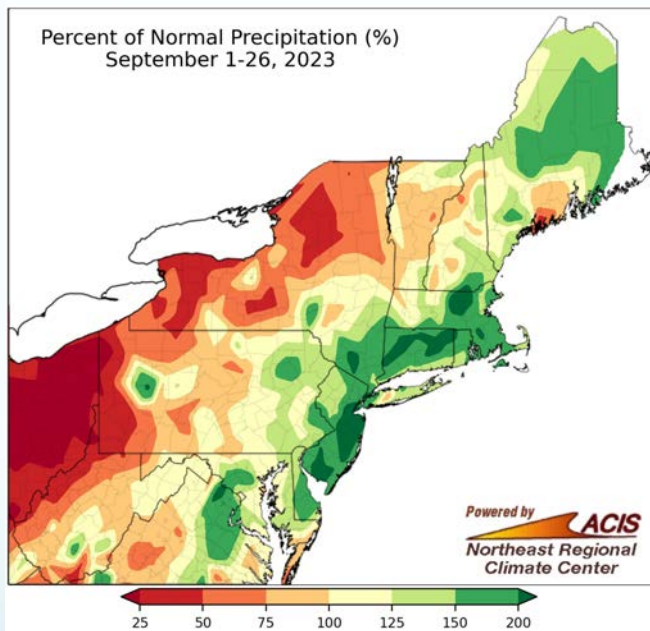




# Summary

## 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](mailto: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



[www.nrcc.cornell.edu](http://www.nrcc.cornell.edu)