

# September Recap & Northeast DEWS Discussion

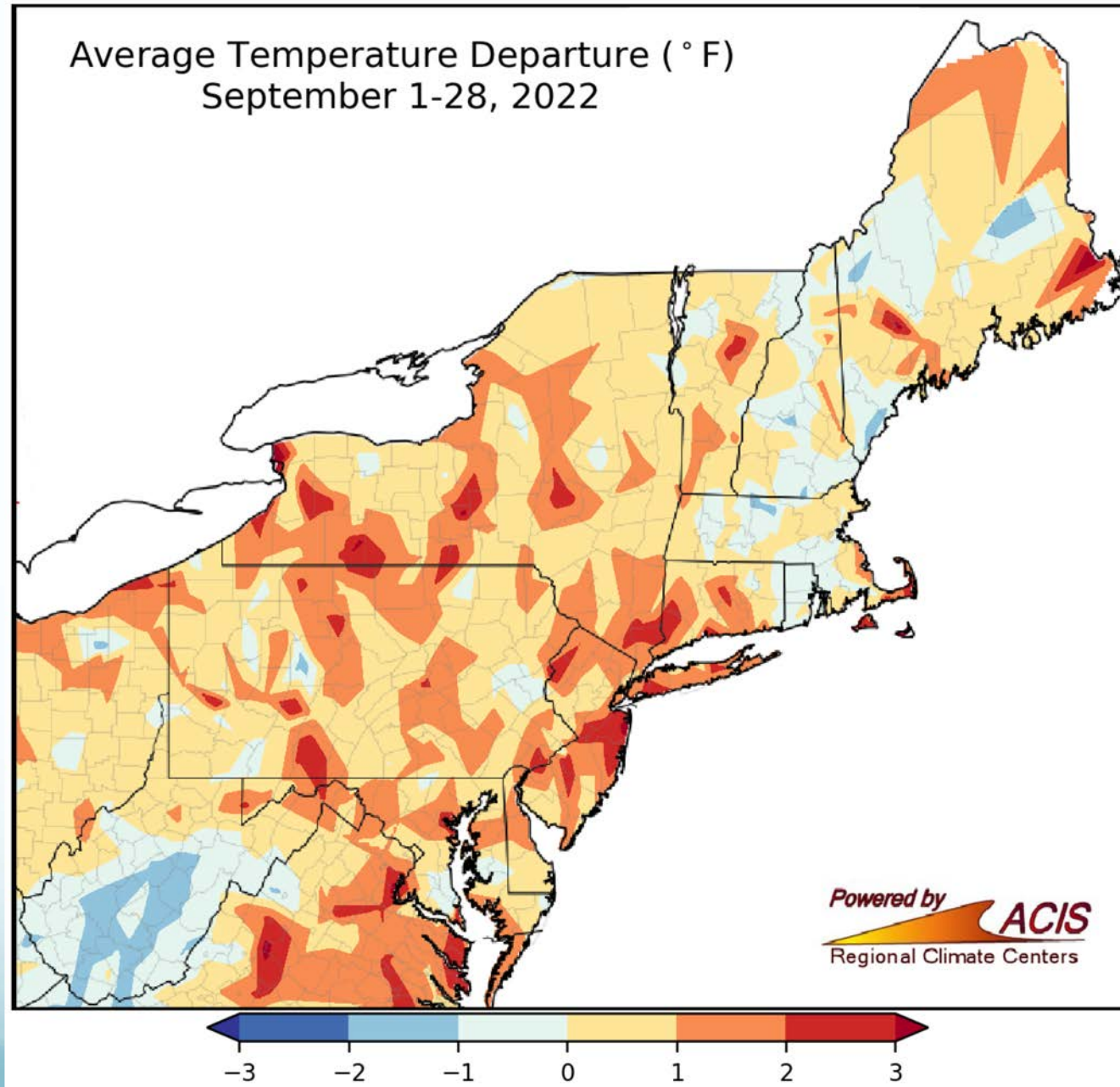
By: Samantha Borisoff, Climatologist  
Northeast Regional Climate Center



Northeast Regional  
Climate Center

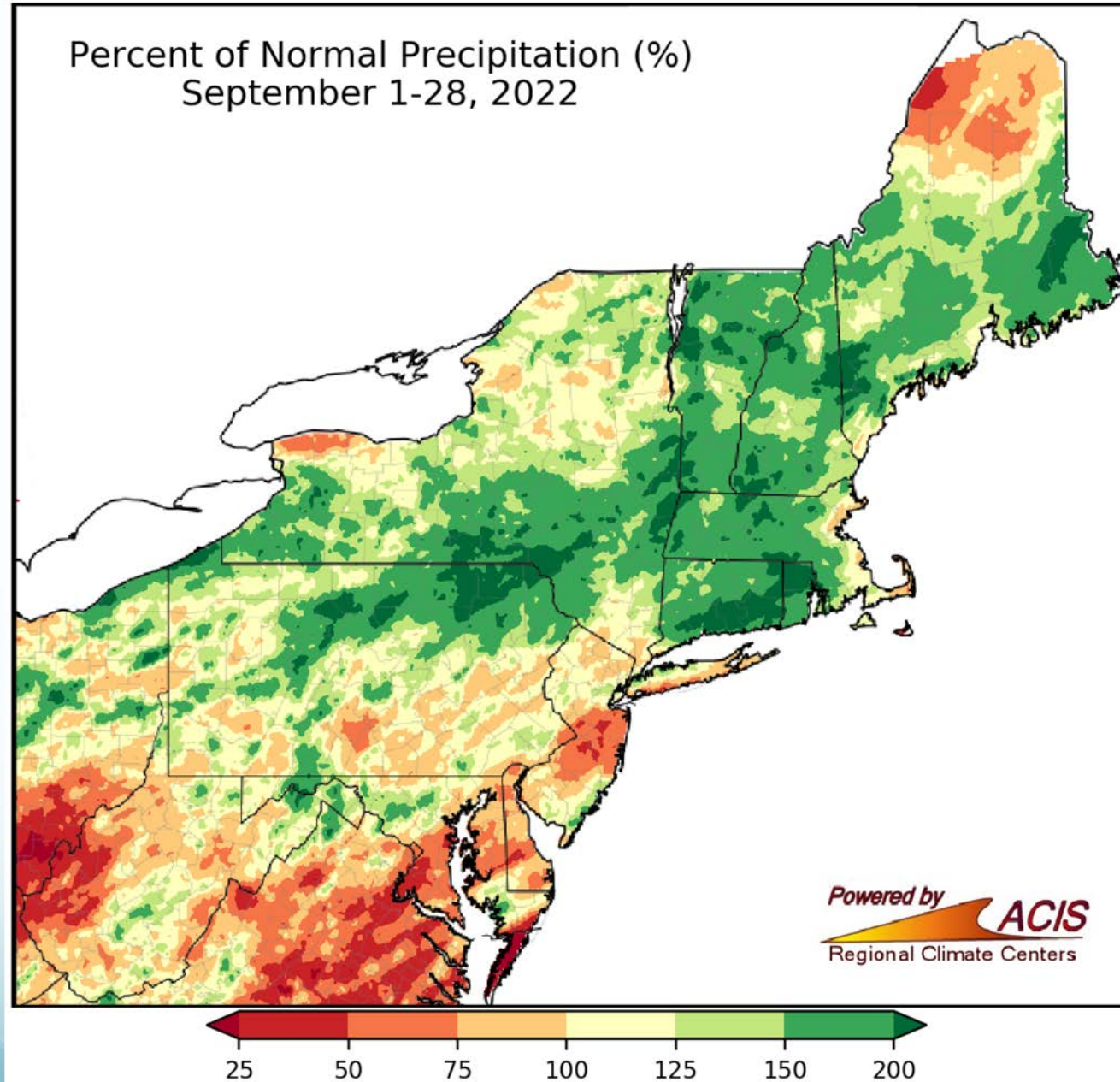


# September Temperatures



From 2°F below normal to 3°F above normal

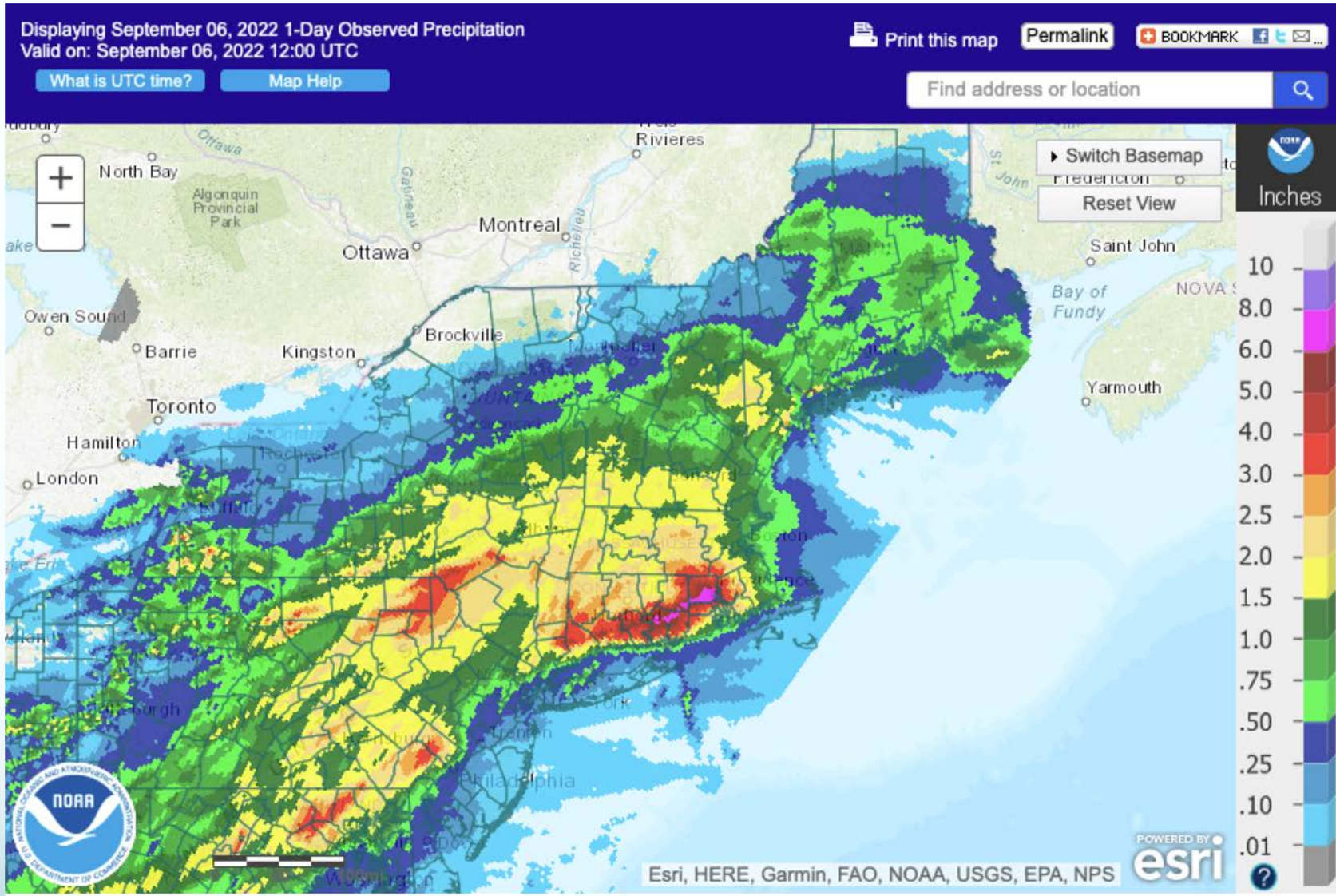
# September Precipitation



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



# Labor Day Weekend Rainfall



# Drought Monitor

## U.S. Drought Monitor Northeast

**August 30, 2022**  
(Released Thursday, Sep. 1, 2022)  
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
<b>Current</b>	40.91	35.33	12.75	9.02	1.98	0.00
<b>Last Week</b> 08-23-2022	49.73	27.69	12.38	7.71	2.48	0.00
<b>3 Months Ago</b> 05-31-2022	88.12	9.18	2.70	0.00	0.00	0.00
<b>Start of Calendar Year</b> 01-04-2022	84.91	12.92	1.32	0.85	0.00	0.00
<b>Start of Water Year</b> 09-28-2021	90.30	6.56	2.35	0.80	0.00	0.00
<b>One Year Ago</b> 08-31-2021	77.08	10.79	10.60	1.54	0.00	0.00

Intensity:

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

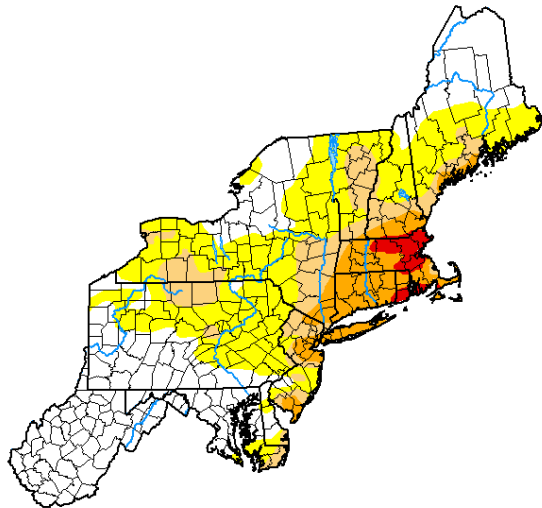
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

Deborah Bathke  
National Drought Mitigation Center



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



## U.S. Drought Monitor Northeast

**September 27, 2022**  
(Released Thursday, Sep. 29, 2022)  
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
<b>Current</b>	69.23	17.83	9.11	3.70	0.14	0.00
<b>Last Week</b> 09-20-2022	52.08	29.27	11.29	7.10	0.27	0.00
<b>3 Months Ago</b> 06-28-2022	70.69	21.85	7.46	0.00	0.00	0.00
<b>Start of Calendar Year</b> 01-04-2022	84.91	12.92	1.32	0.85	0.00	0.00
<b>Start of Water Year</b> 09-28-2021	90.30	6.56	2.35	0.80	0.00	0.00
<b>One Year Ago</b> 08-31-2021	90.30	6.56	2.35	0.80	0.00	0.00

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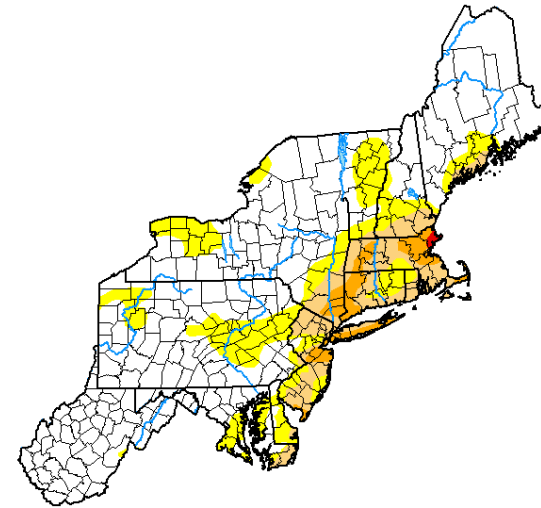
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Author:

Richard Heim  
NCEI/NOAA



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



# Precipitation

## Accumulated Precipitation Departure from Normal

Green/black diamonds represent subsequent/missing values



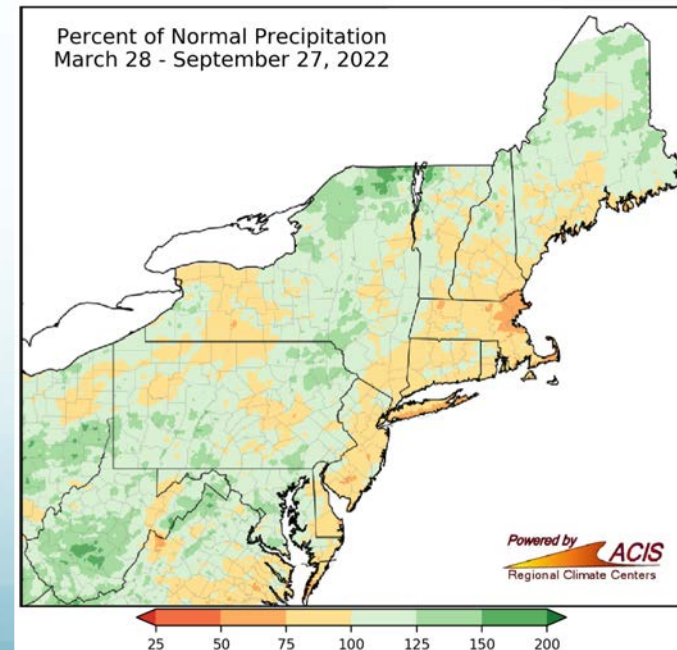
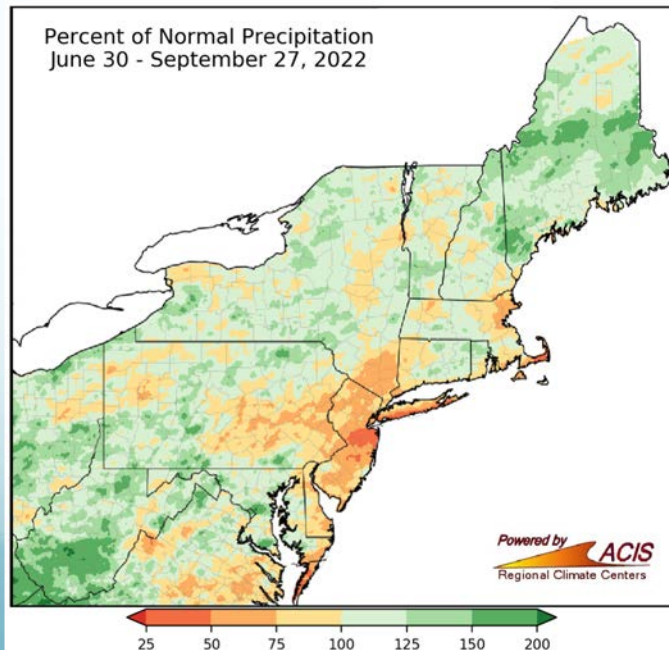
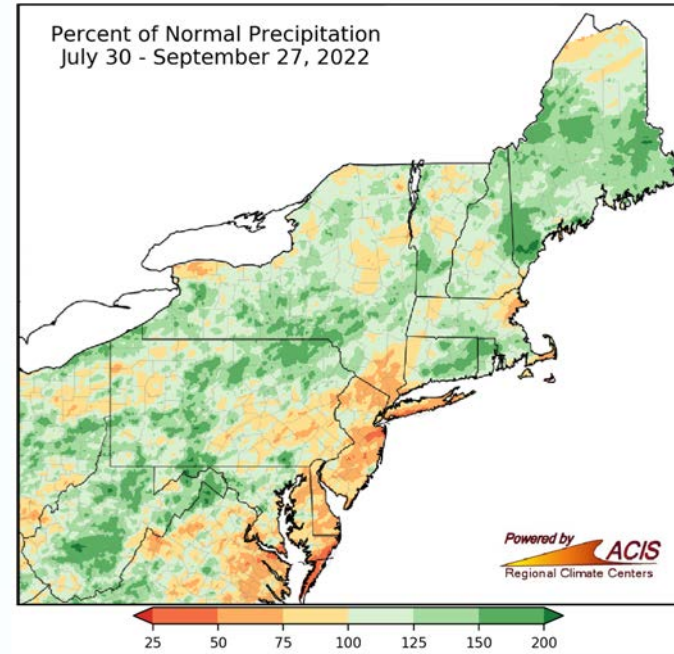
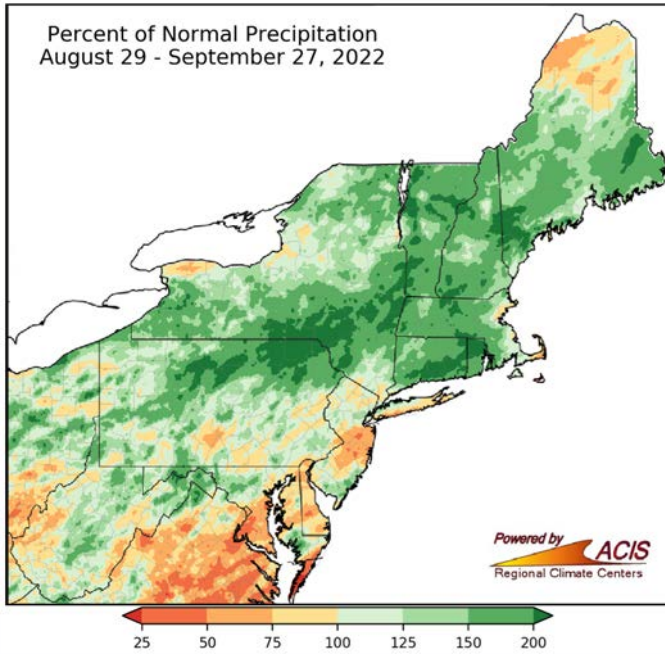
(Click to hide/show lines)

- Portland Area, ME (ThreadEx):Precip Dprt
- Boston Area, MA (ThreadEx):Precip Dprt
- Providence Area, RI (ThreadEx):Precip Dprt
- Islip Area, NY (ThreadEx):Precip Dprt

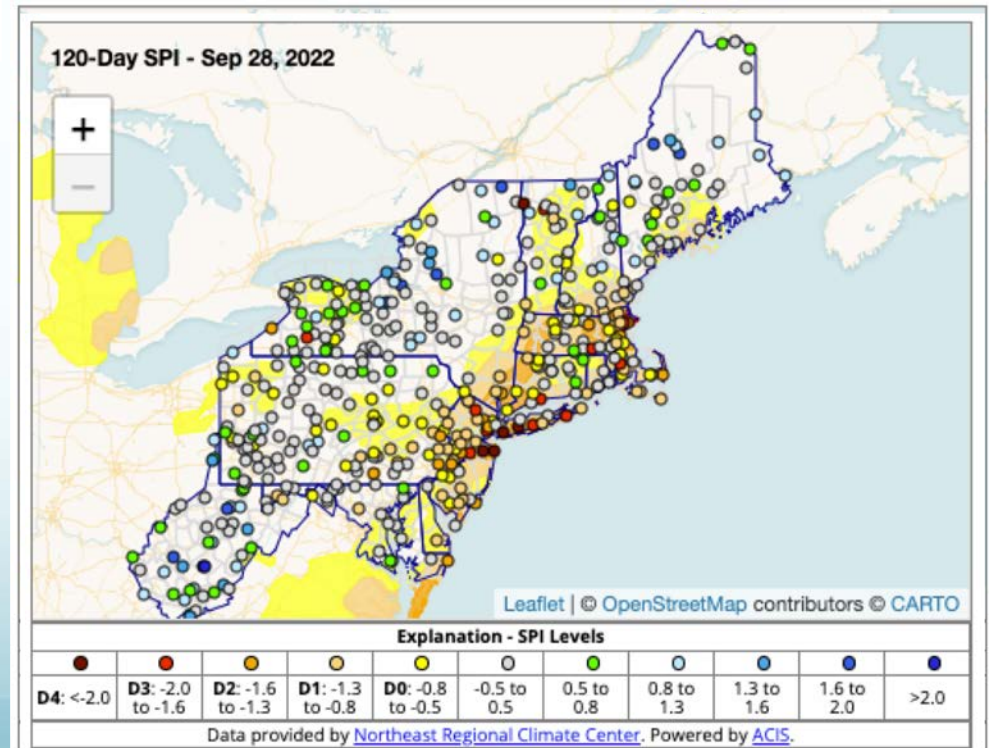
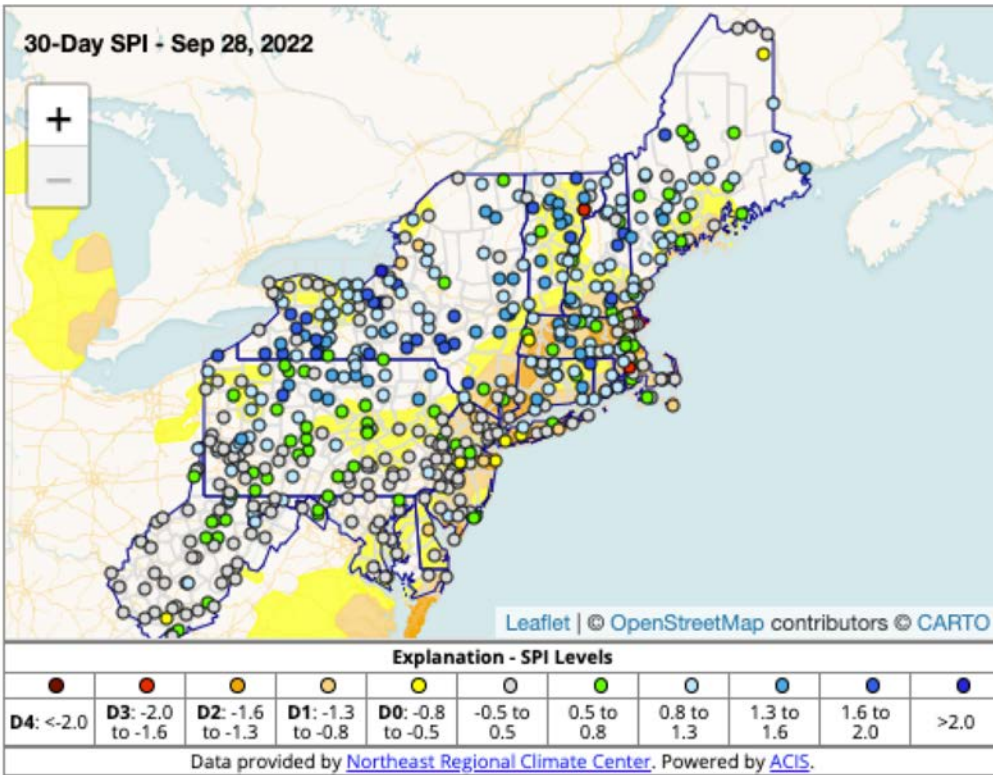
Powered by ACIS



# Precipitation



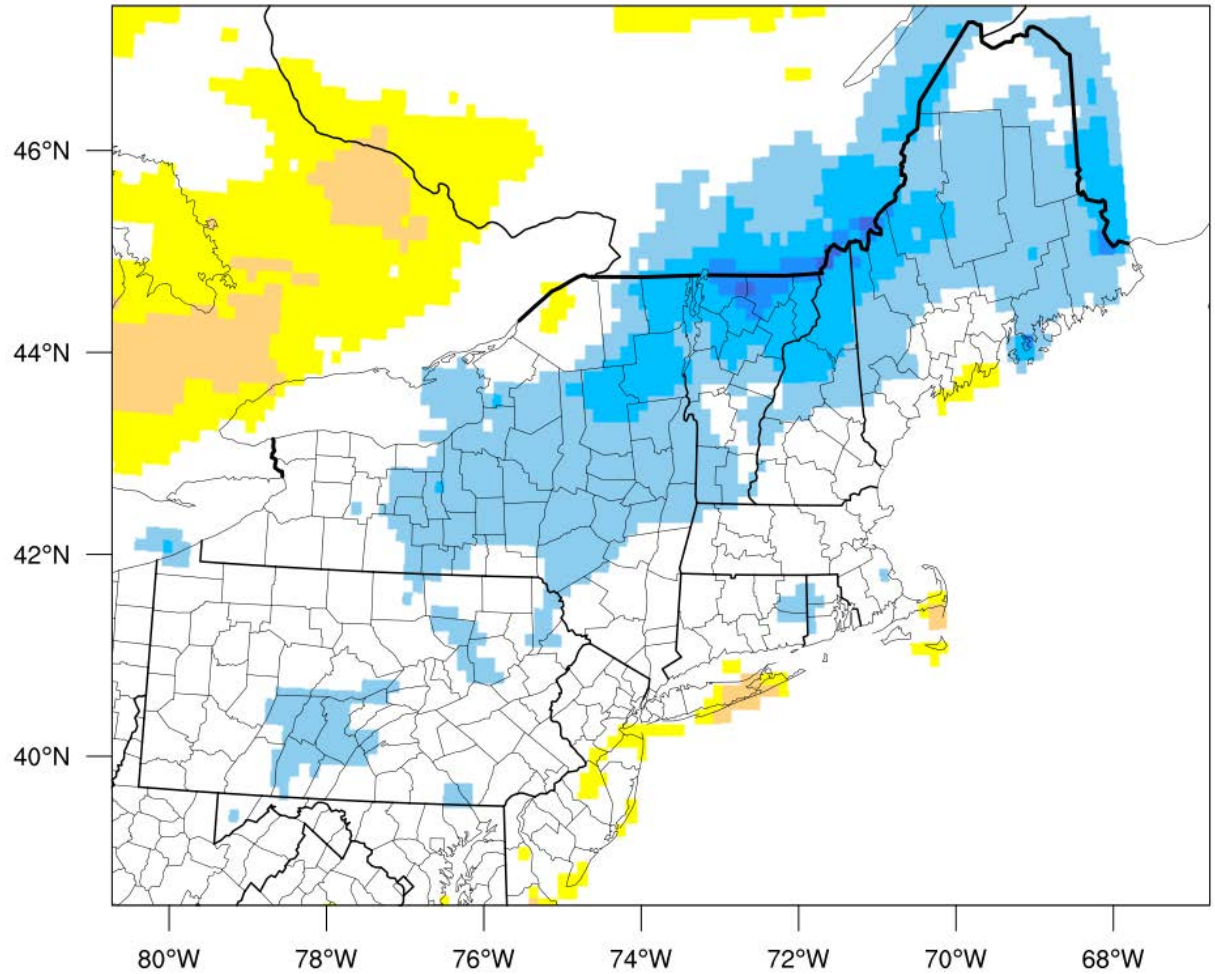
# Standardized Precipitation Index





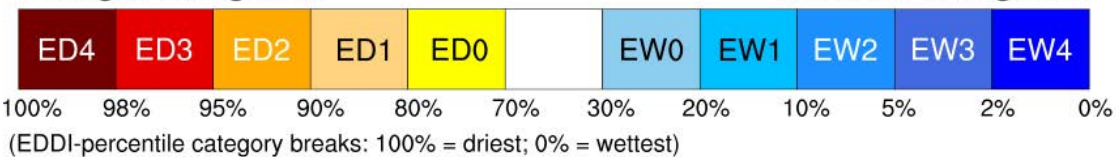
# Evap. Demand Drought Index

3-week EDDI categories for September 23, 2022



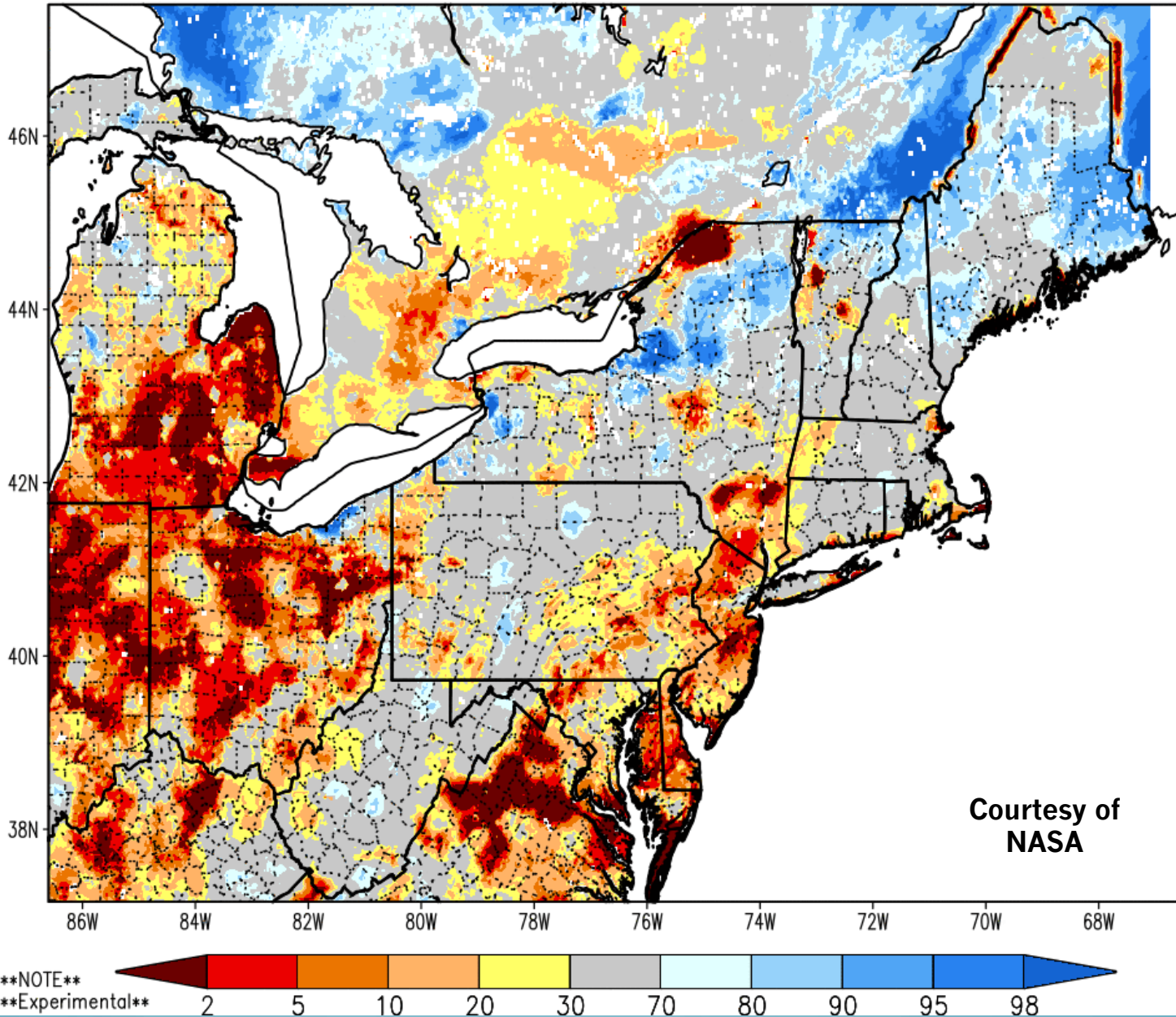
Drought categories

Wetness categories

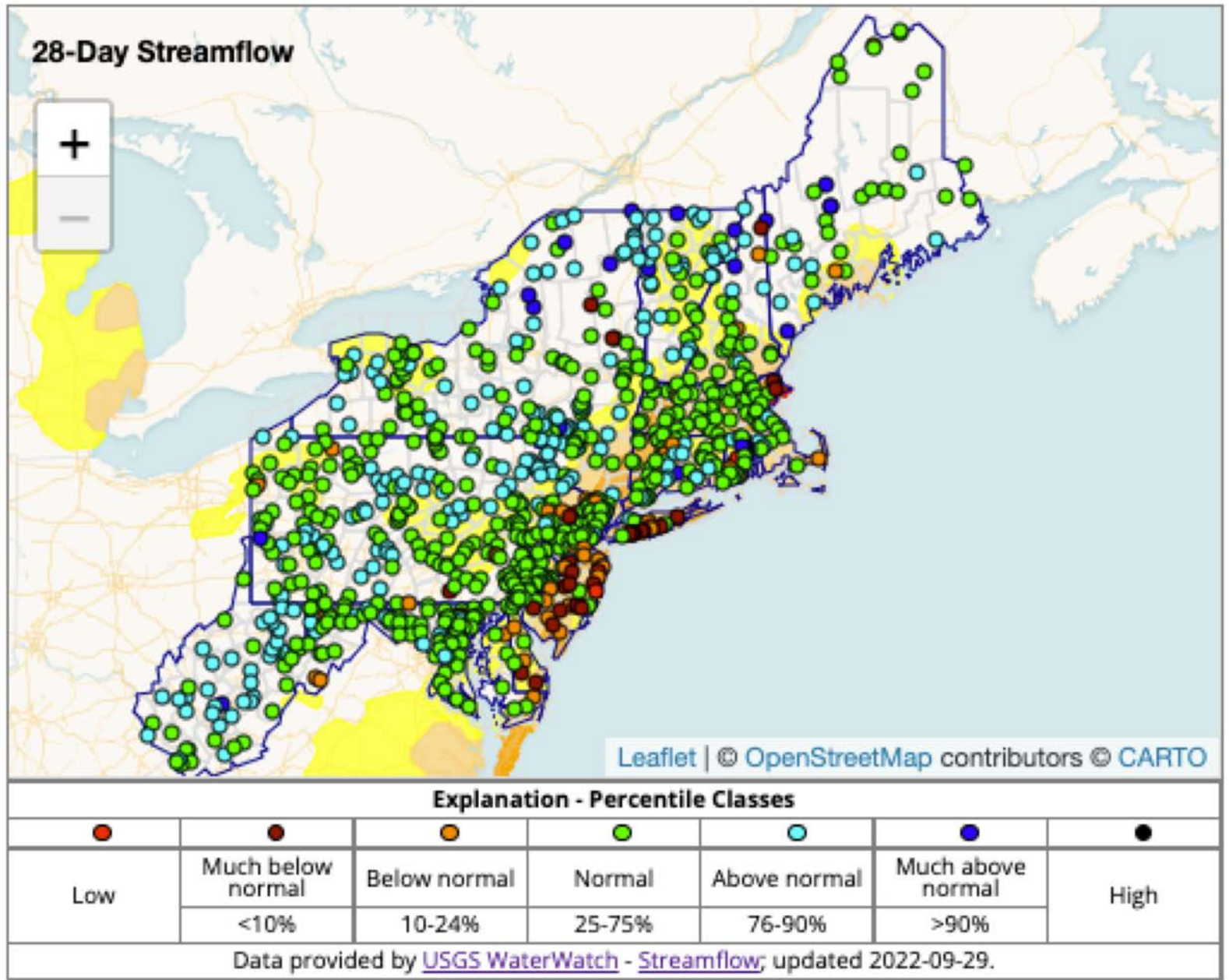


# Soil Moisture

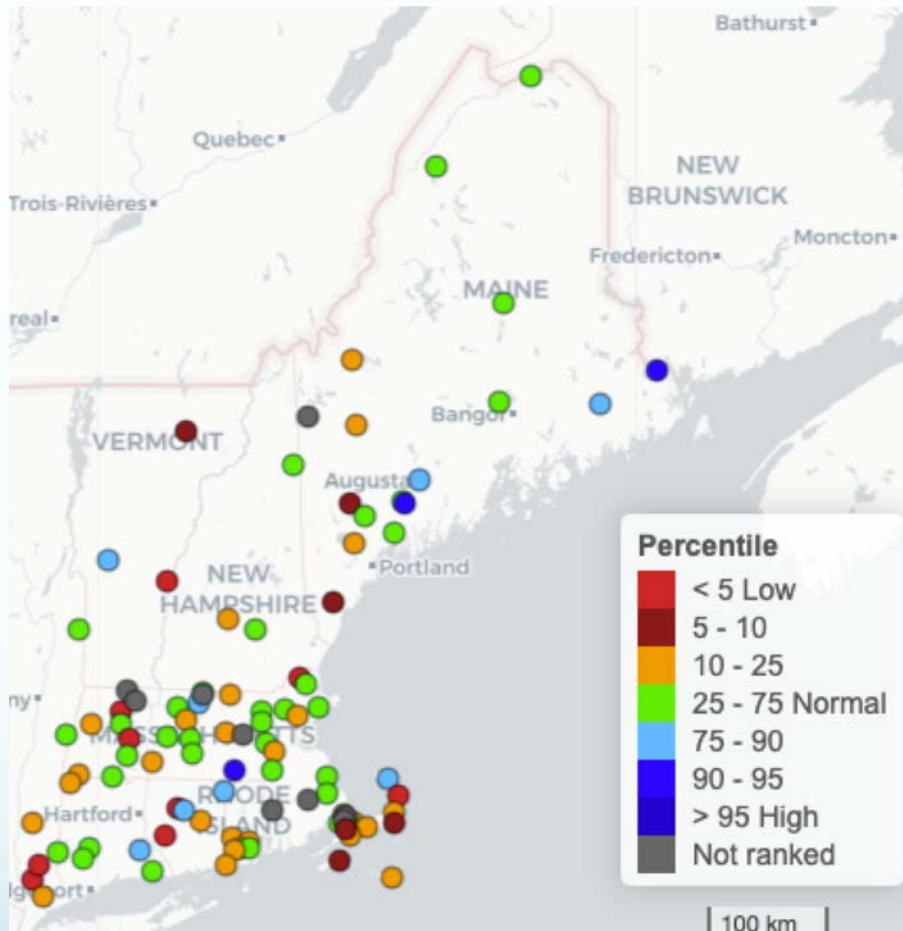
SPoRT-LIS 0-100 cm Soil Moisture percentile valid 29 Sep 2022



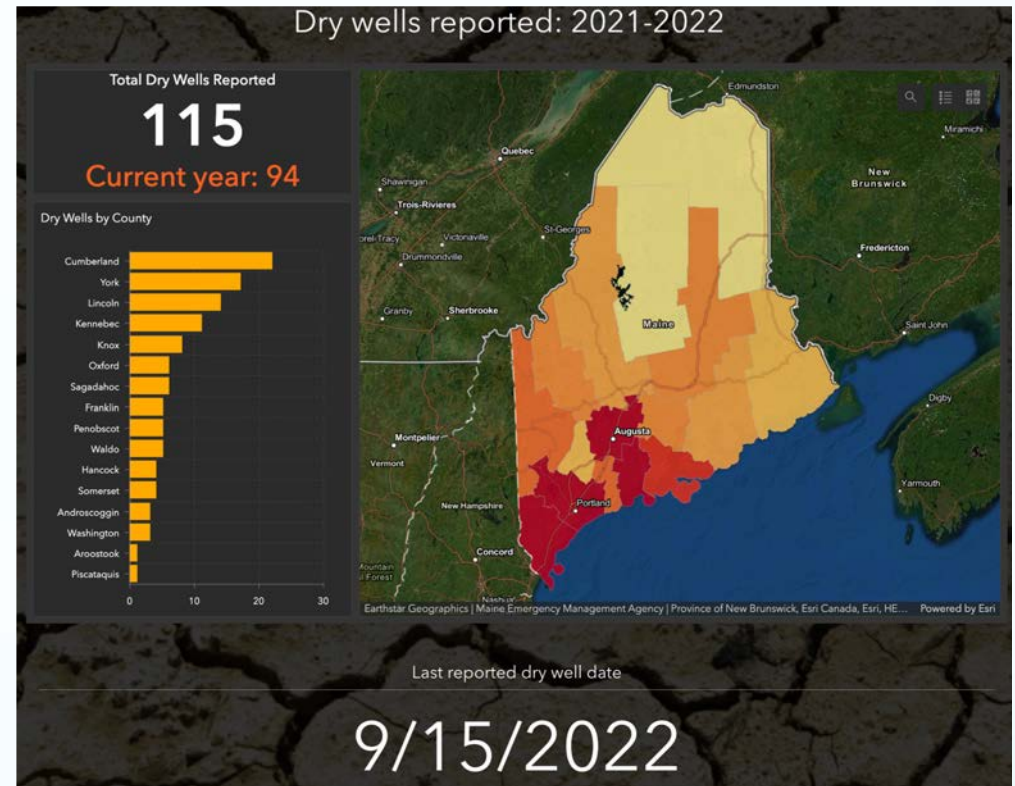
# Streamflow



# Groundwater



Courtesy of [U.S. Geological Survey New England Water Science Center](https://www.usgs.gov/)



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



# Drought Impacts

## Reported Water Use Restrictions

Last Update: 9/22/2022

### Legend

County Boundary

Town Boundary

### Drought Condition

Abnormally Dry

Moderate Drought

Severe Drought

Extreme Drought

### Municipality Status

Voluntary Restriction

Mandatory Restriction

### Water System Status

Voluntary Restriction

Mandatory Restriction

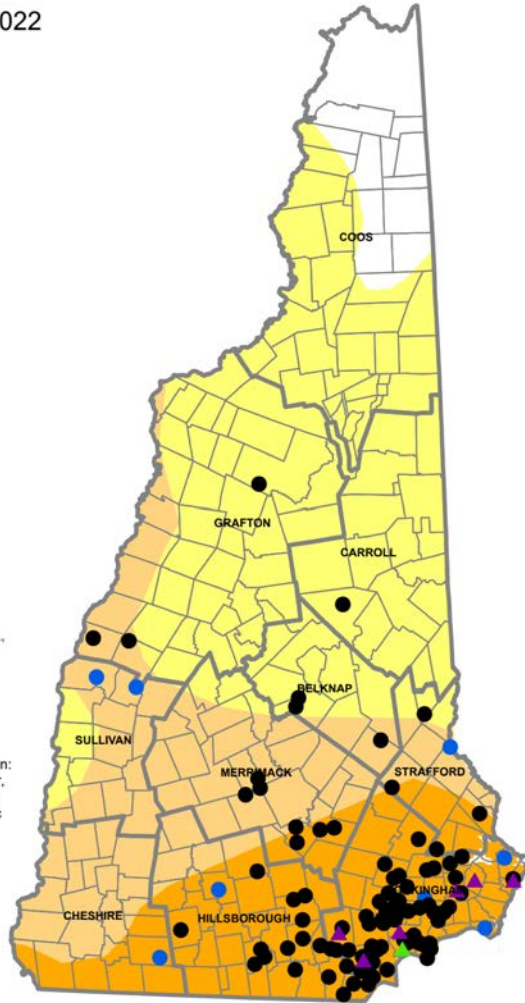


0 5 10 20 Miles



Drought conditions based on United States Drought Monitor <https://droughtmonitor.unl.edu/>  
Produced by a partnership between: National Drought Mitigation Center, U.S. Department of Agriculture, & 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.



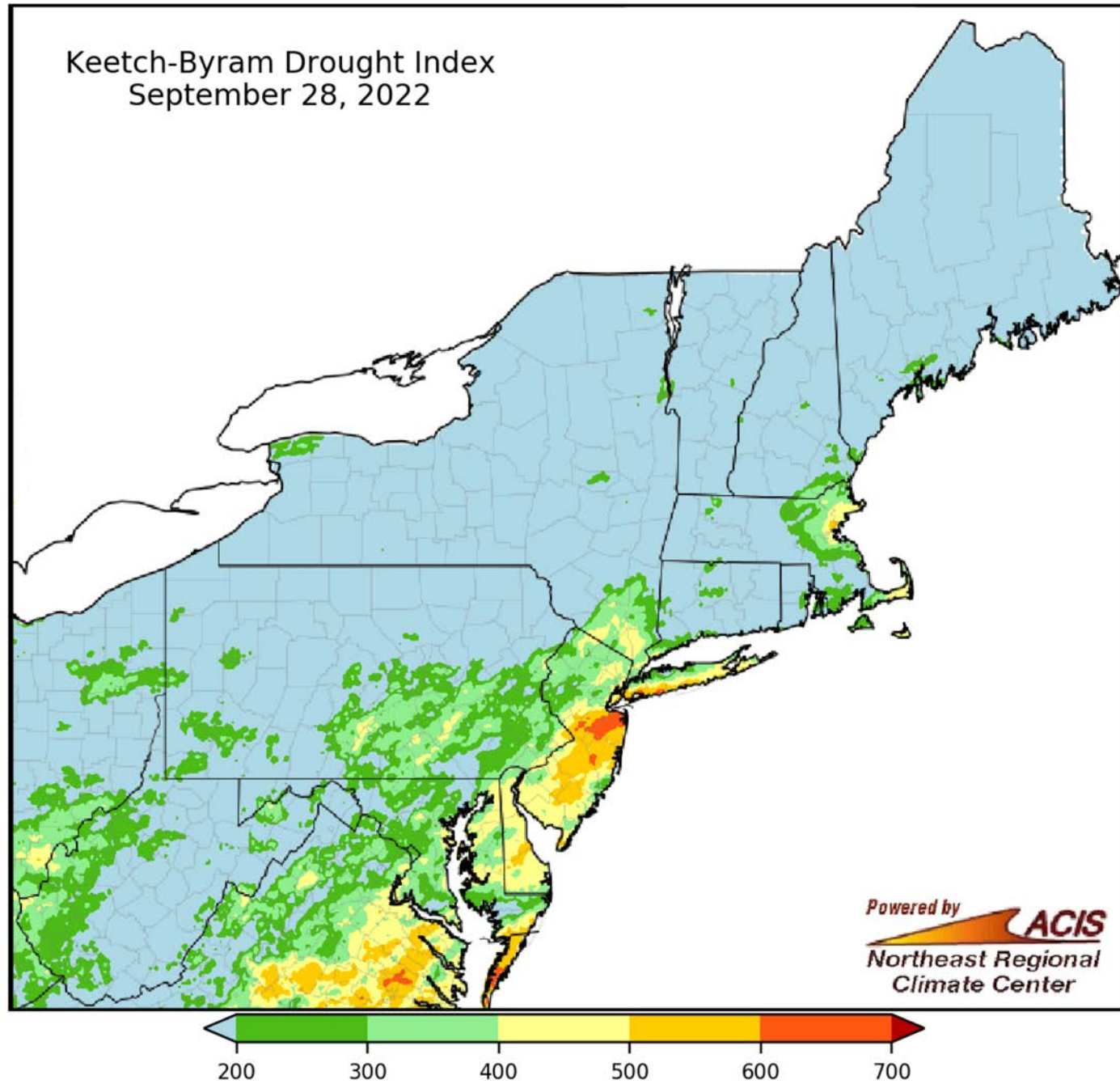
List of water suppliers employing non-essential water restrictions as of September 27, 2022

	PWS ID	Name	County (sorted)	Restriction Type	Within Susq. R. Basin	Within Del. R. Basin
1	6120001	DRIFTWOOD BORO	Cameron	Voluntary	Y	N
2	3130012	PALMERTON MUNI WATER AUTH	Carbon	Voluntary	N	Y
3	6170052	BCI MUNI AUTH	Clearfield	Voluntary	Y	N
4	4180048	LOCK HAVEN CITY AUTH MCELHATTA	Clinton	Voluntary	Y	N
5	4180055	PORTER TWP MUNI AUTH	Clinton	Mandatory	Y	N
6	4180059	SOUTH RENOVO WATER STS	Clinton	Voluntary	Y	N
7	2400082	VEOLIA WATER PA OVERBROOK	Luzerne	Mandatory	Y	N
8	2408001	HAZLETON CITY AUTH	Luzerne	Mandatory	Y	Y
9	3540011	MAHANOY TWP AUTH	Luzerne	Voluntary	Y	N
10	4410187	WATERVILLE WATER ASSN	Lycoming	Mandatory	Y	N
11	4410156	JERSEY SHORE AREA JT WATER AUTH	Lyoming	Voluntary	Y	N
12	3480038	PA AMER WATER CO BANGOR DIST	Northampton	Voluntary	N	Y
13	7500019	DUNCANNON WATER SYS	Perry	Voluntary	Y	N
14	6530010	GALETON BORO WATER AUTH	Potter	Mandatory	Y	N
15	3540045	TOWER CITY BORO AUTH	Schuylkill	Voluntary	Y	N

Courtesy of Pennsylvania Dept. of Environmental Protection



# Wildfire Risk



# Drought Impacts

## Farmers say this year's drought has impacted the growth of corn stalks

Sep 20, 2022, 5:18pm • Updated 7d ago

By: News 12 Staff

## Niagara County pumpkin crops feel effects of drought

Becker Farms says its pumpkins are a third of the normal size because of the lack of rain.

YORK COUNTY

## Summer drought and inflation causes higher costs for fall favorites

Higher operational costs for farmers are being paid for by consumers.

## Summer drought taking toll on Long Island farmers with crop quality, extra work hours

Sep 21, 2022, 10:26pm • Updated 6d ago

By: News 12 Staff

LOCAL NEWS

## Massachusetts leaf peeping: Some trees won't be as vibrant, dropping leaves earlier because of the drought

'It might not be as brilliant and as vibrant as we're used to'

CAPE COD TIMES

NEWS

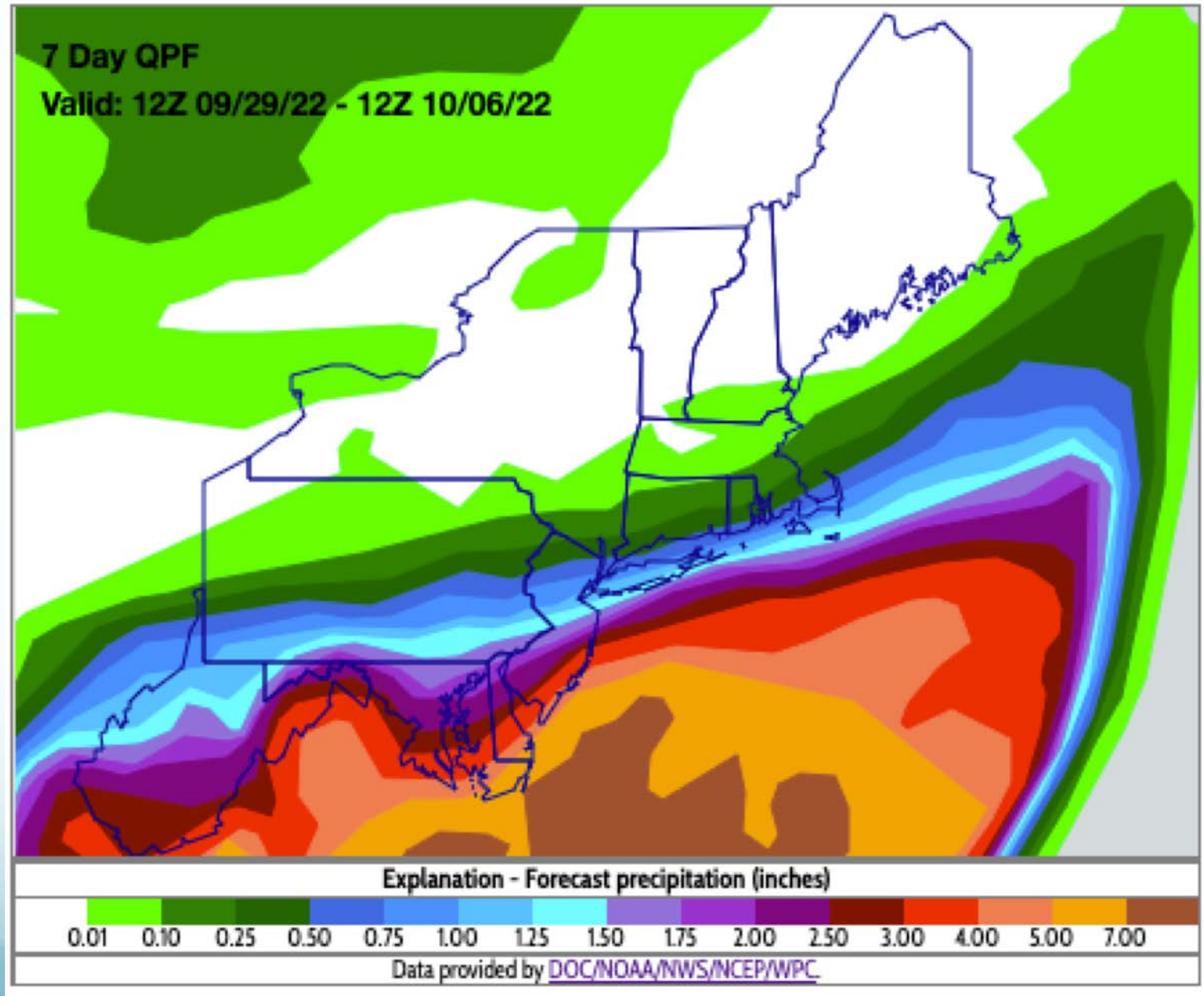
## Too little, too late: Drought remains 'critical' despite rainfall, cooler weather



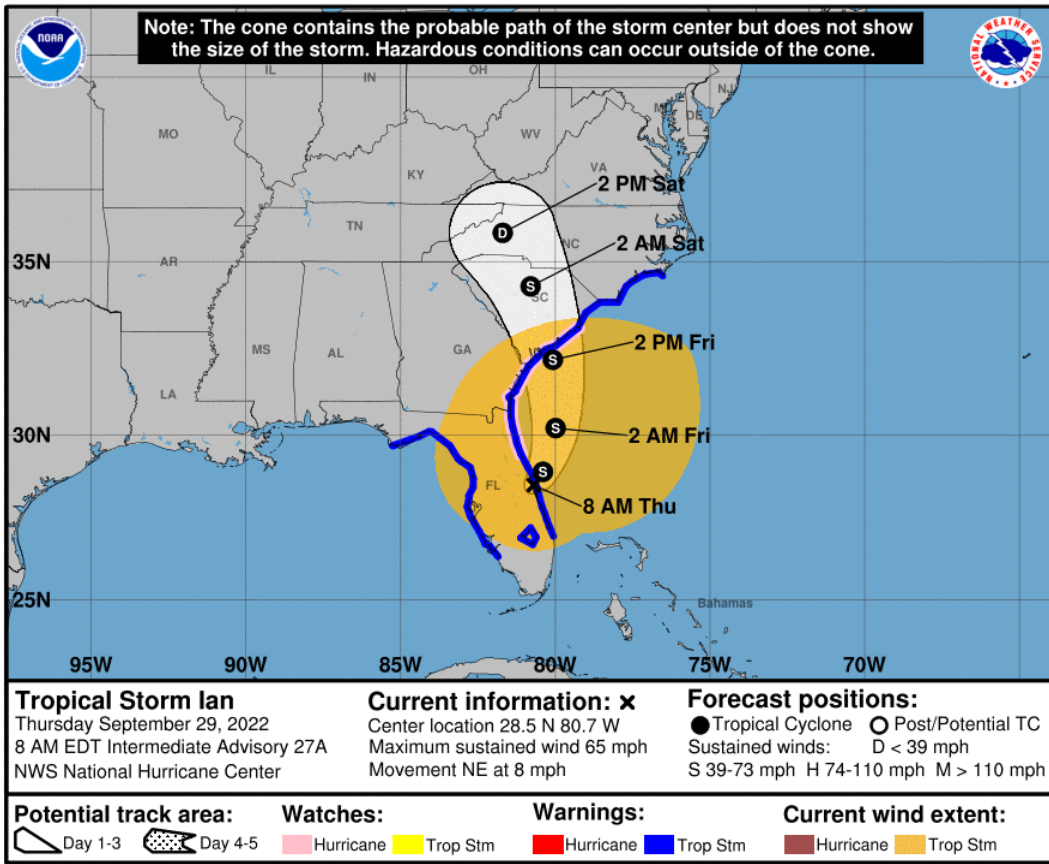
DROUGHT

Drought Affecting Apple and Pumpkin Picking This Season

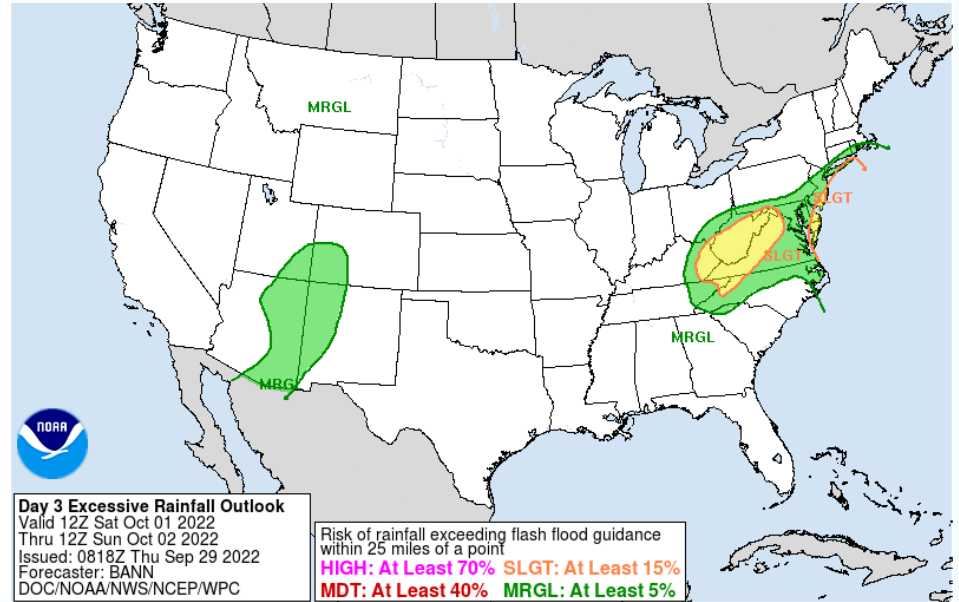
# Precipitation Forecast



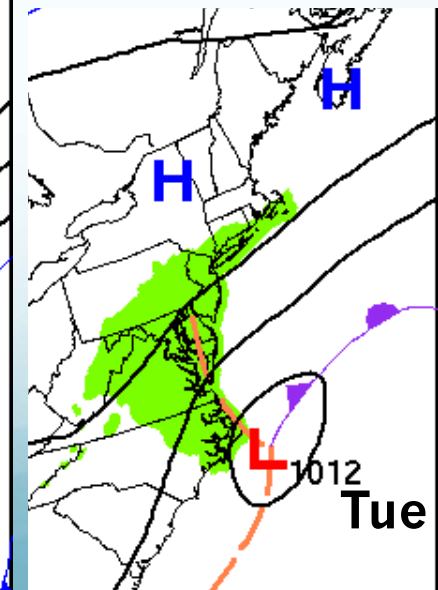
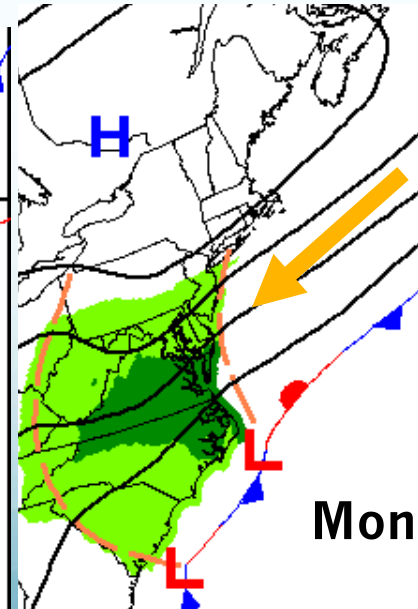
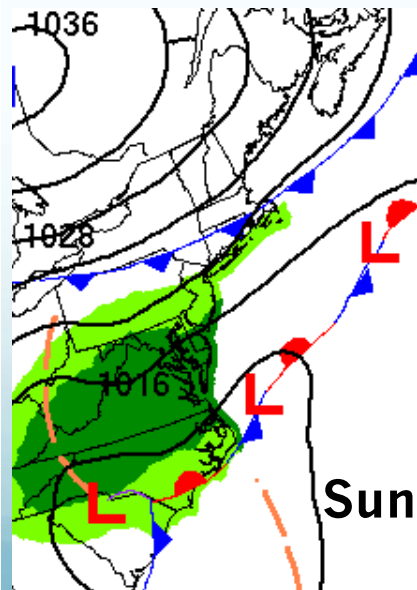
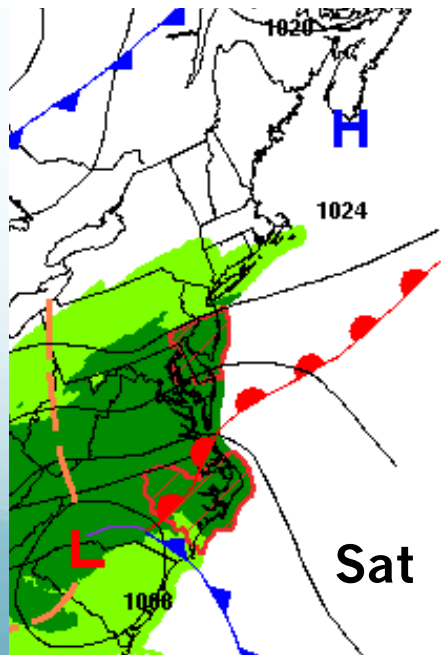




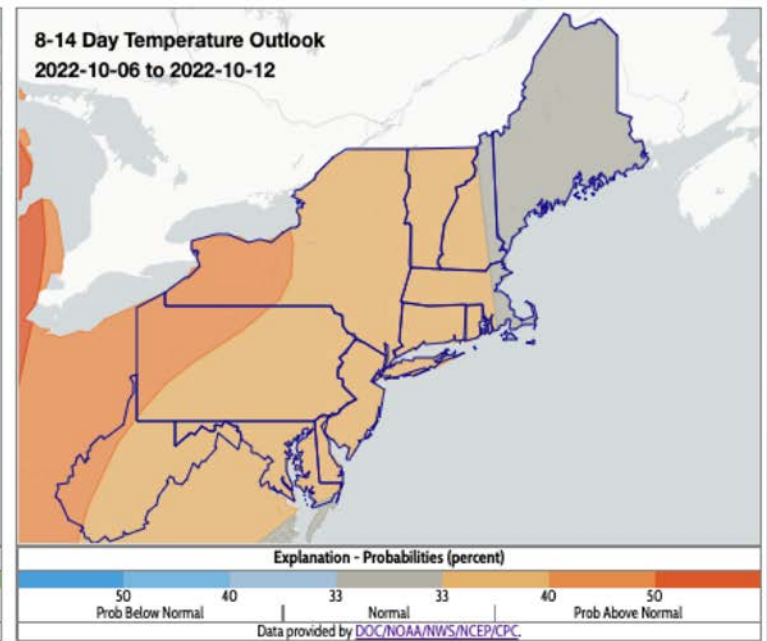
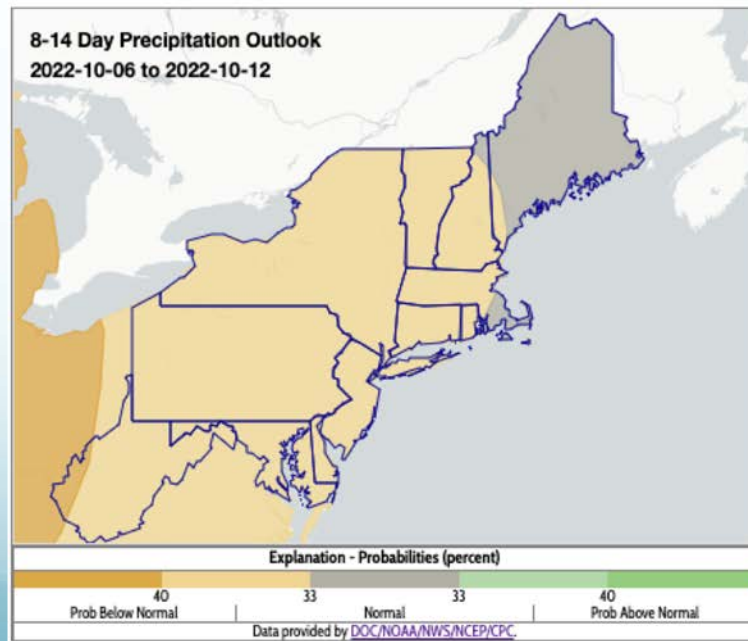
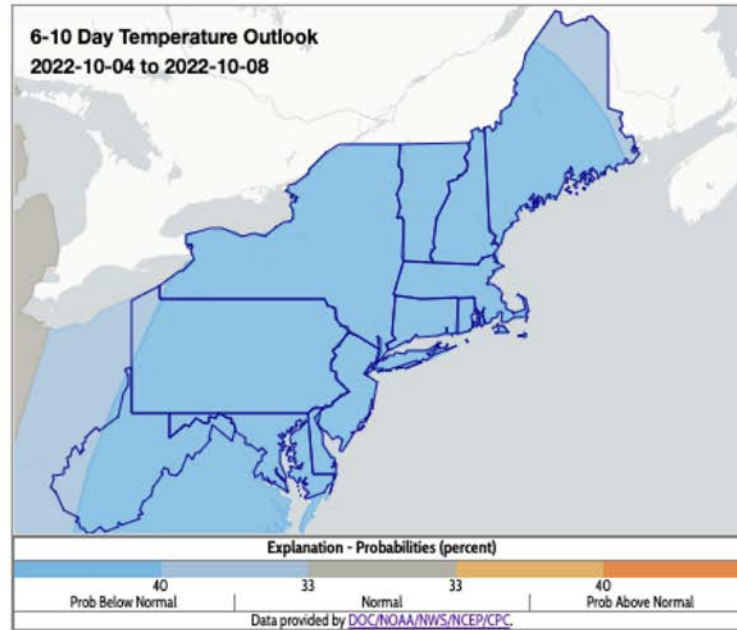
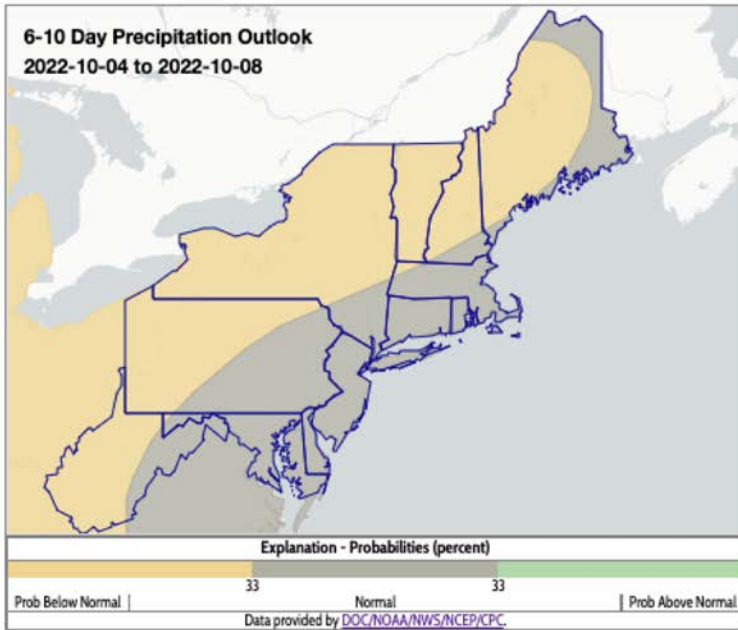
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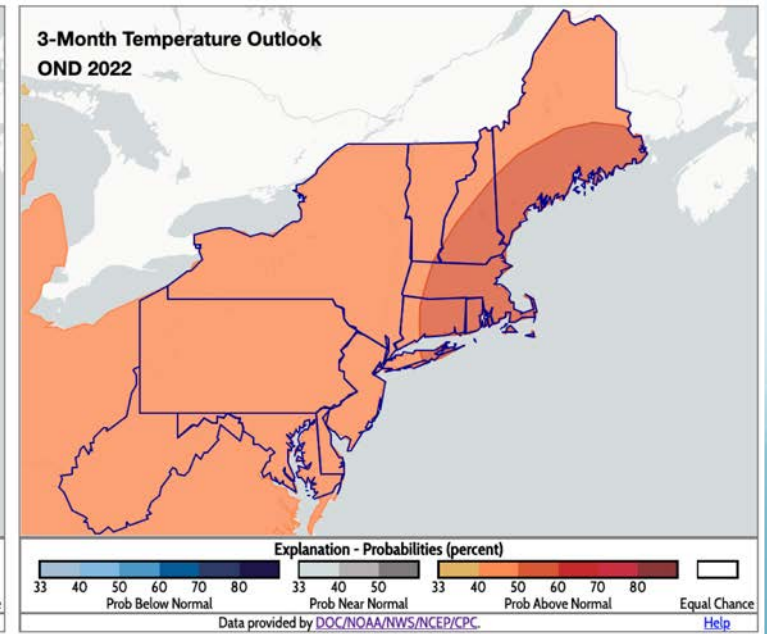
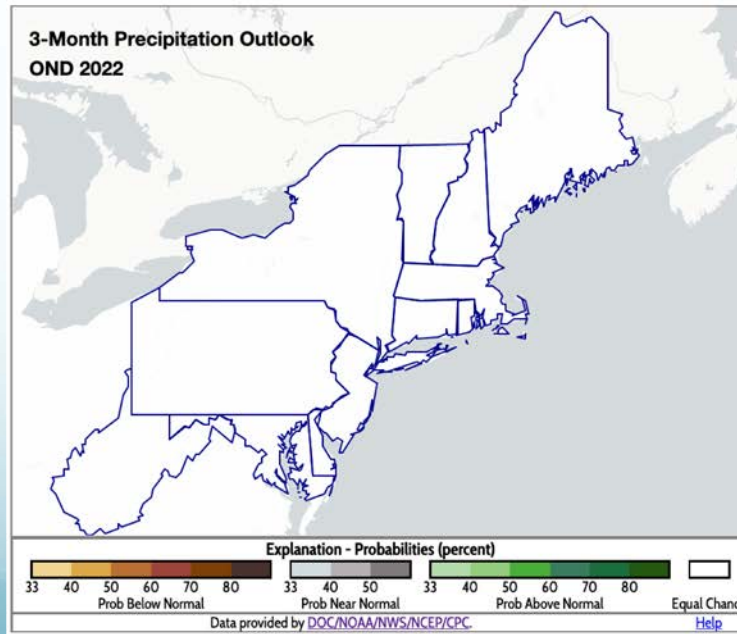
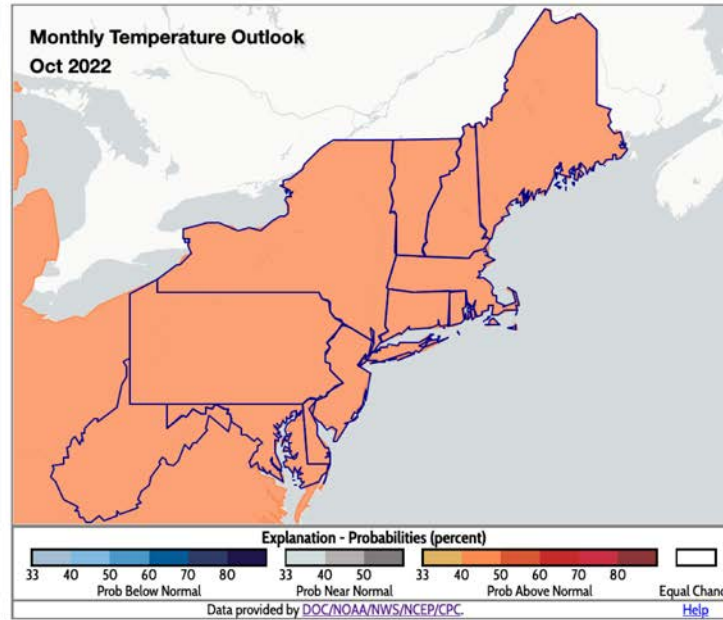
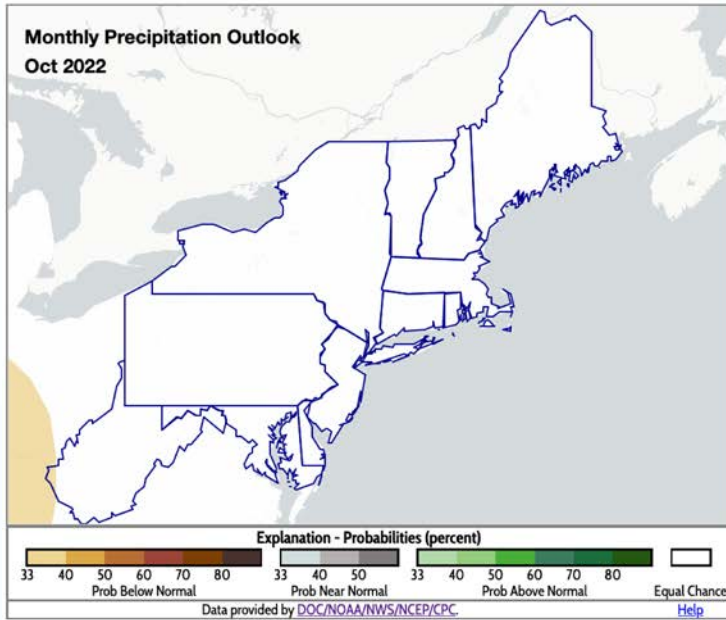
Maps courtesy of NOAA WPC



# Short-term Outlooks



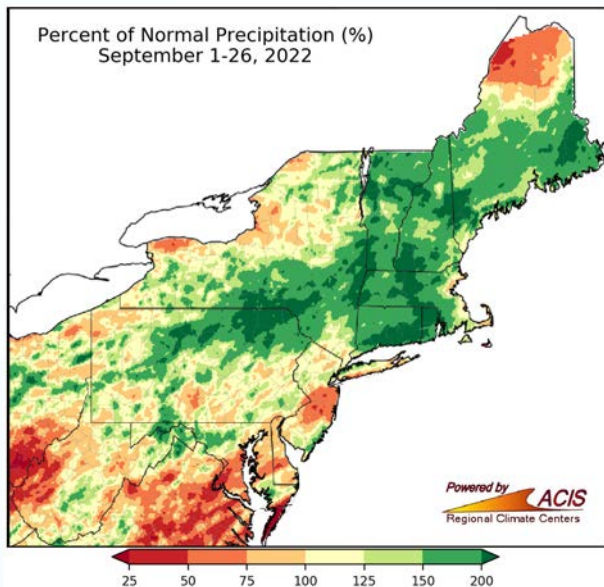
# Monthly & 3-Month Outlooks



# Summary

## September-to-date conditions:

- Near to above-normal temperatures
- Near to above-normal precipitation



## Drought:

- Wetter weather chipped away at drought and abnormal dryness, especially in New England

## Outlooks:

- Short-term outlooks: potential for now T.S. Ian to bring heavy rain to Mid-Atlantic; below-normal temperatures favored for 6-10 day period but near or above normal temperatures predicted for 8-14 day; below- or near-normal rainfall favored for both time periods
- October and October-December: equal chances of below-, near-, or above-normal precipitation; above-normal temperatures are favored for all



# Contact Information

- [nrcc@cornell.edu](mailto:nrcc@cornell.edu)

## Upcoming Webinars

- Thursday, October 27 at 9:30am EDT
  - NCEI's Climate at a Glance Tool
- Tuesday, November 29 at 9:30am EST
  - ENSO Update and Winter Outlook
- Thursday, December 15 at 9:30am EST
  - Massachusetts Drought Dashboard
- Tuesday, January 31 at 9:30am EST
  - Climate Mapping for Resilience and Adaptation Tool



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