

September Recap & Northeast DEWS Discussion

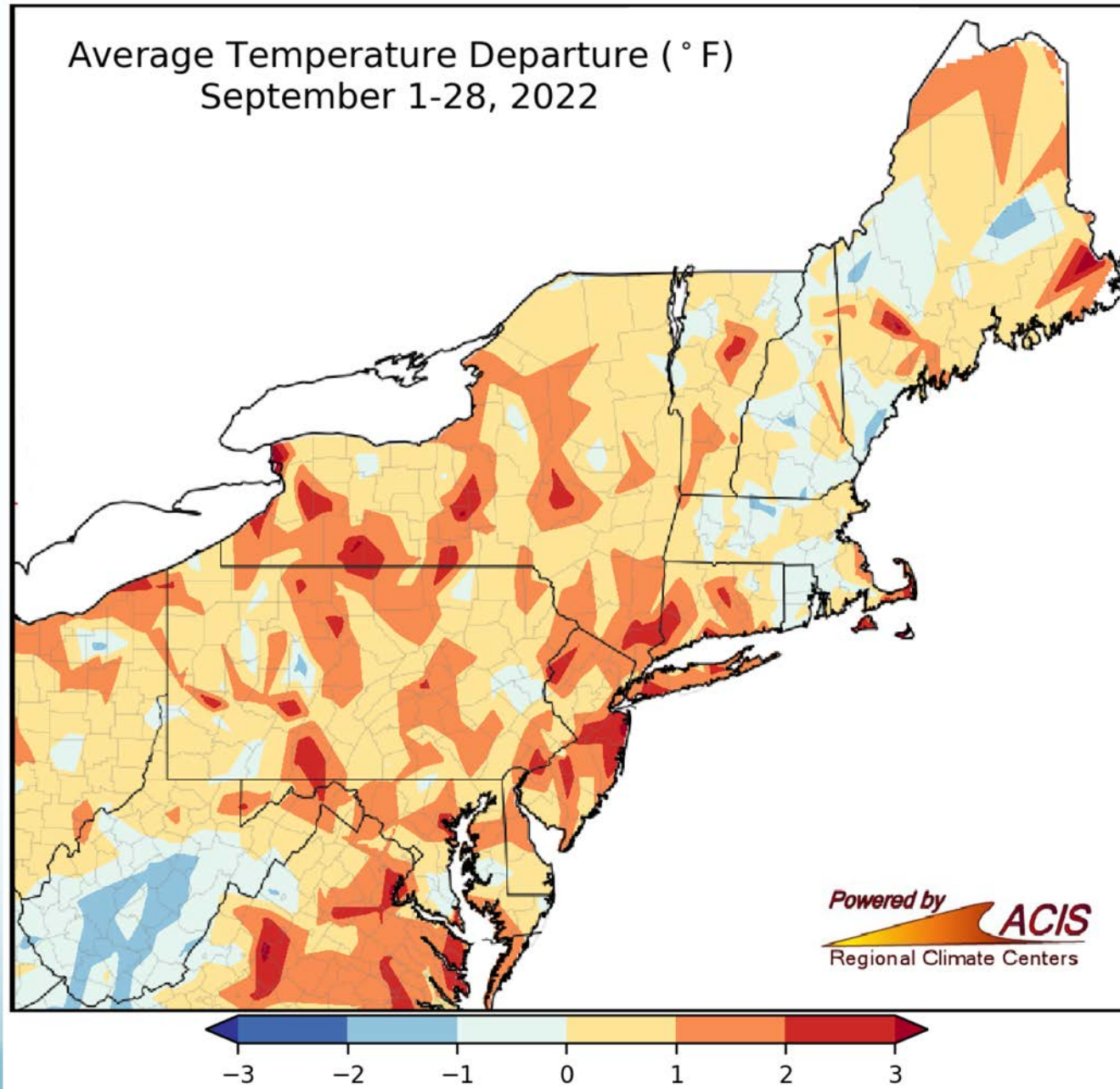
By: Samantha Borisoff, Climatologist
Northeast Regional Climate Center



Northeast Regional
Climate Center

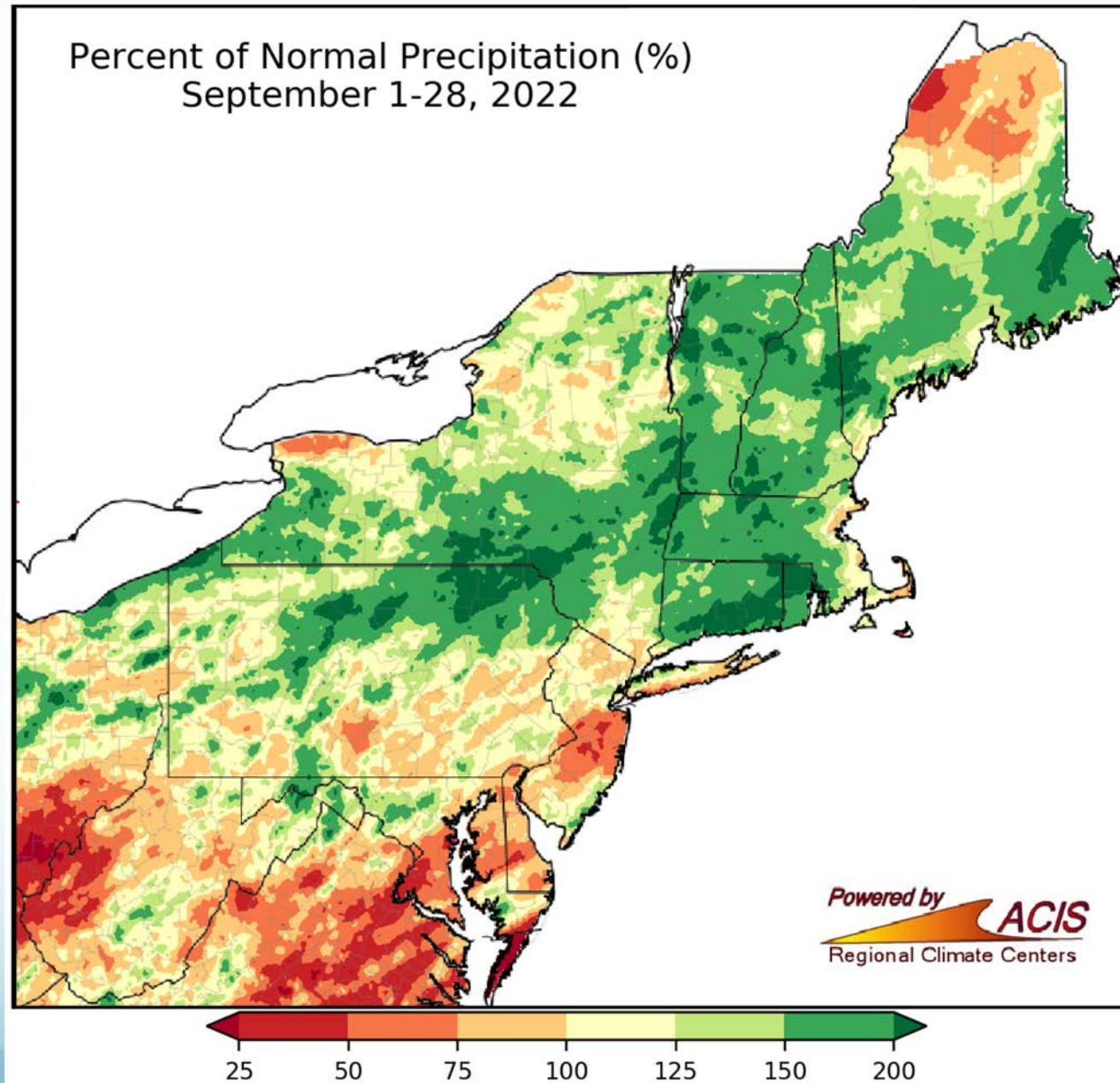


September Temperatures



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

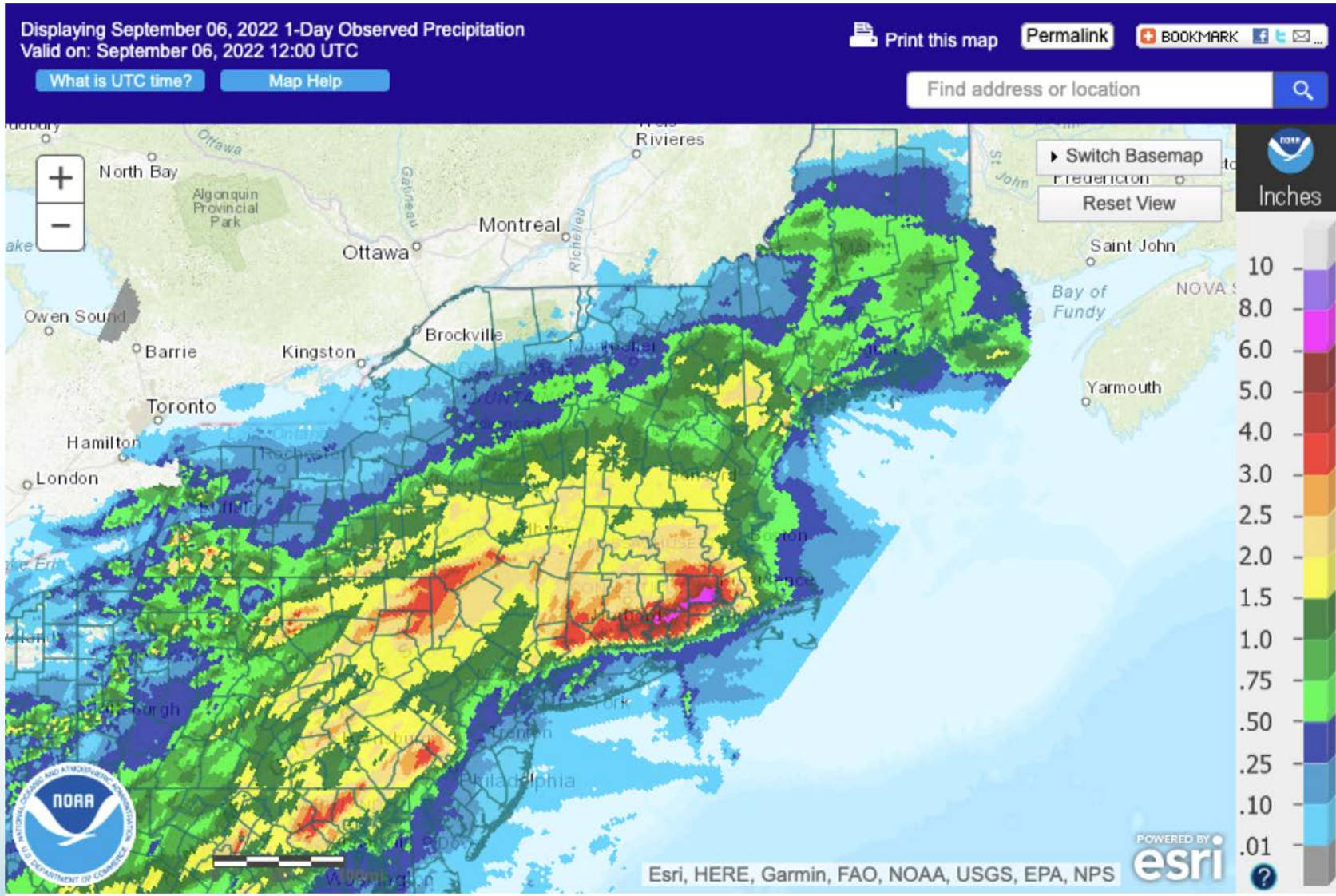
September Precipitation



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
Current	40.91	35.33	12.75	9.02	1.98	0.00
Last Week 08-23-2022	49.73	27.69	12.38	7.71	2.48	0.00
3 Months Ago 05-31-2022	88.12	9.18	2.70	0.00	0.00	0.00
Start of Calendar Year 01-04-2022	84.91	12.92	1.32	0.85	0.00	0.00
Start of Water Year 09-28-2021	90.30	6.56	2.35	0.80	0.00	0.00
One Year Ago 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

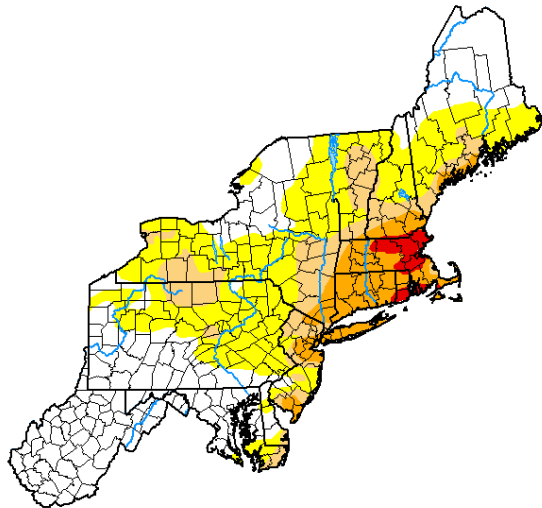
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

Deborah Bathke
National Drought Mitigation Center



droughtmonitor.unl.edu



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
Current	69.23	17.83	9.11	3.70	0.14	0.00
Last Week 09-20-2022	52.08	29.27	11.29	7.10	0.27	0.00
3 Months Ago 06-28-2022	70.69	21.85	7.46	0.00	0.00	0.00
Start of Calendar Year 01-04-2022	84.91	12.92	1.32	0.85	0.00	0.00
Start of Water Year 09-28-2021	90.30	6.56	2.35	0.80	0.00	0.00
One Year Ago 08-31-2021	90.30	6.56	2.35	0.80	0.00	0.00

Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
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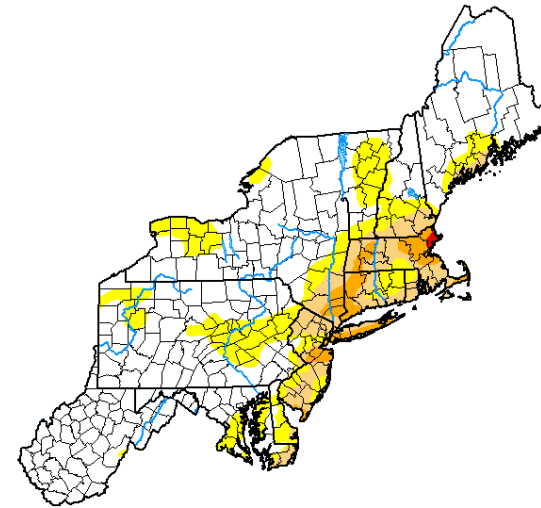
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Author:

Richard Heim
NCEI/NOAA



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
Islip Area, NY (ThreadEx):Precip Dprt

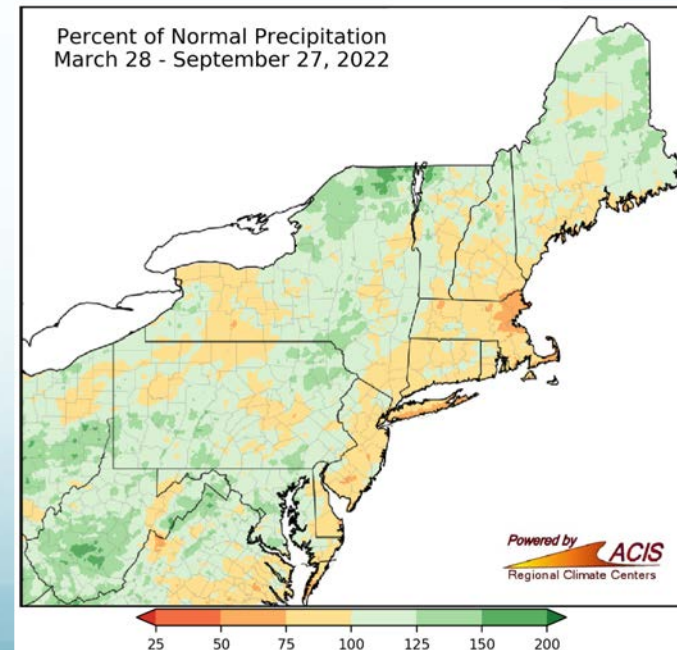
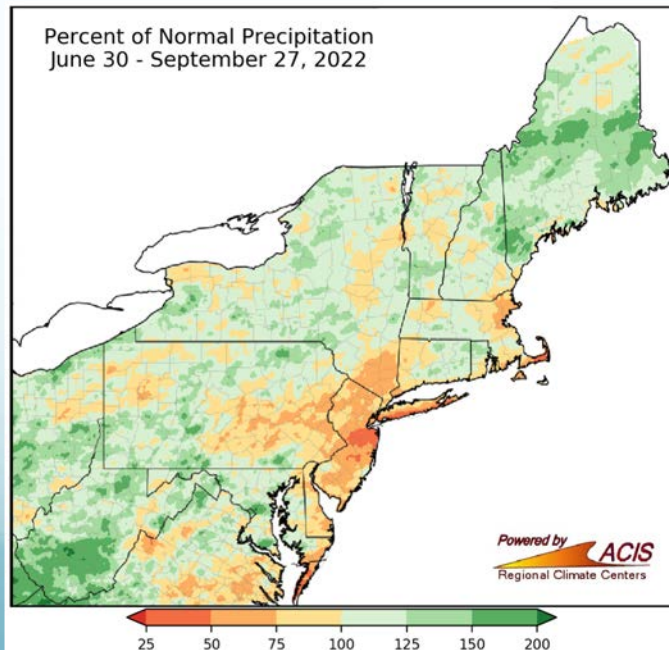
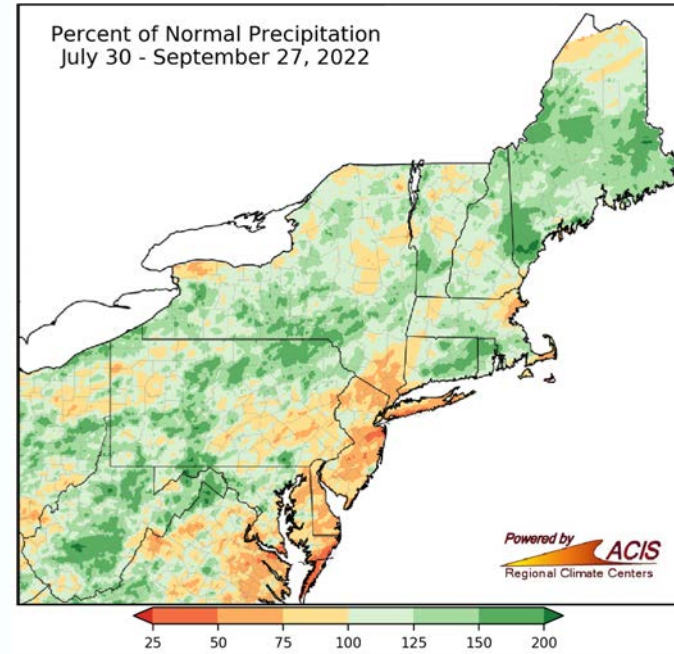
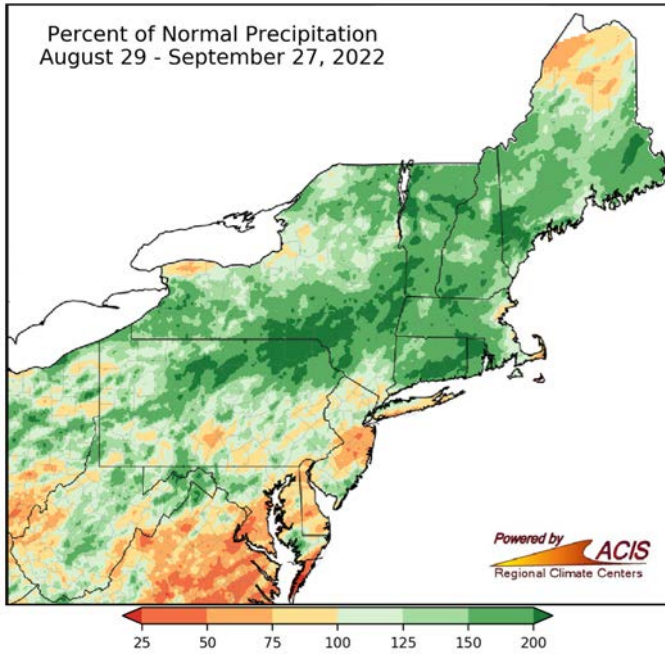
Boston Area, MA (ThreadEx):Precip Dprt

Providence Area, RI (ThreadEx):Precip Dprt

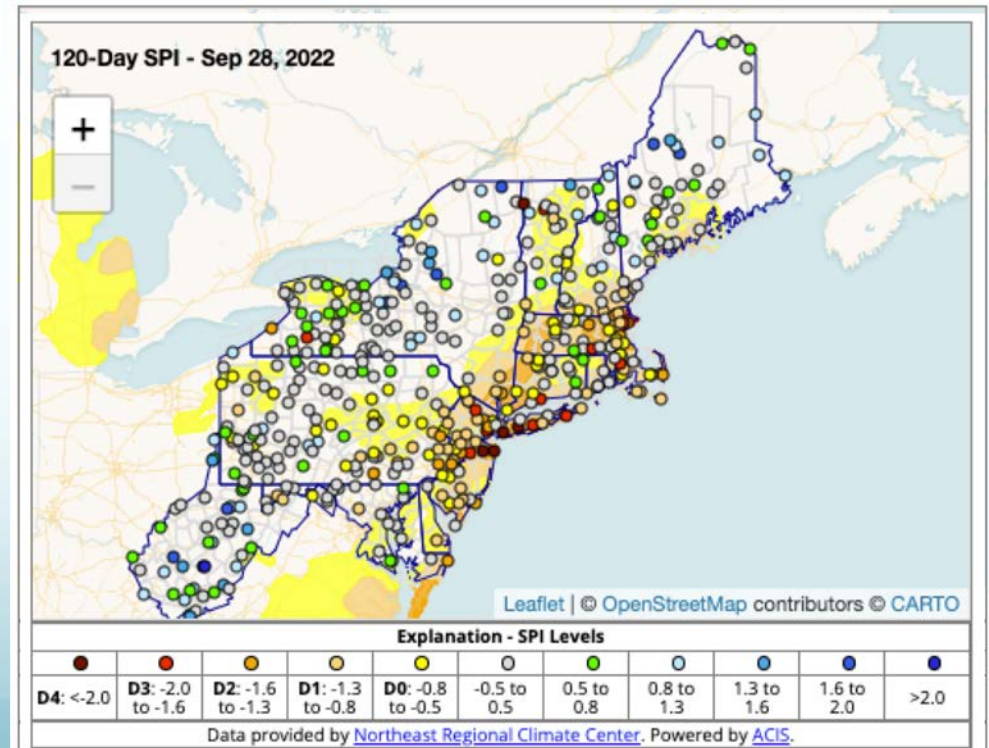
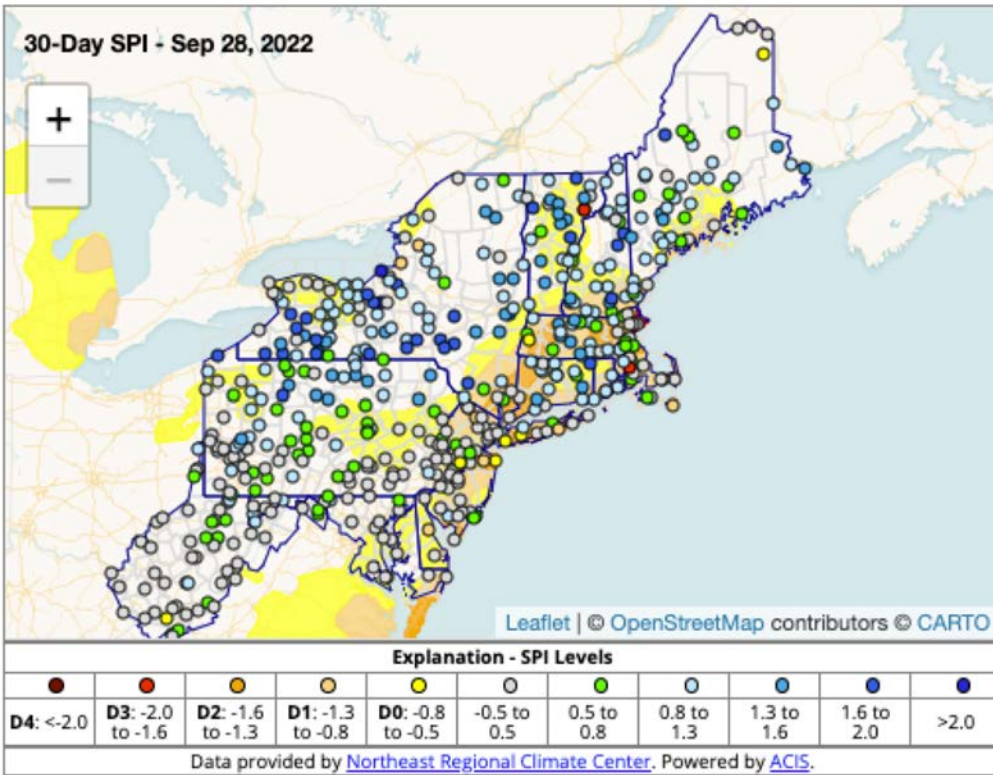
Powered by ACIS



Precipitation

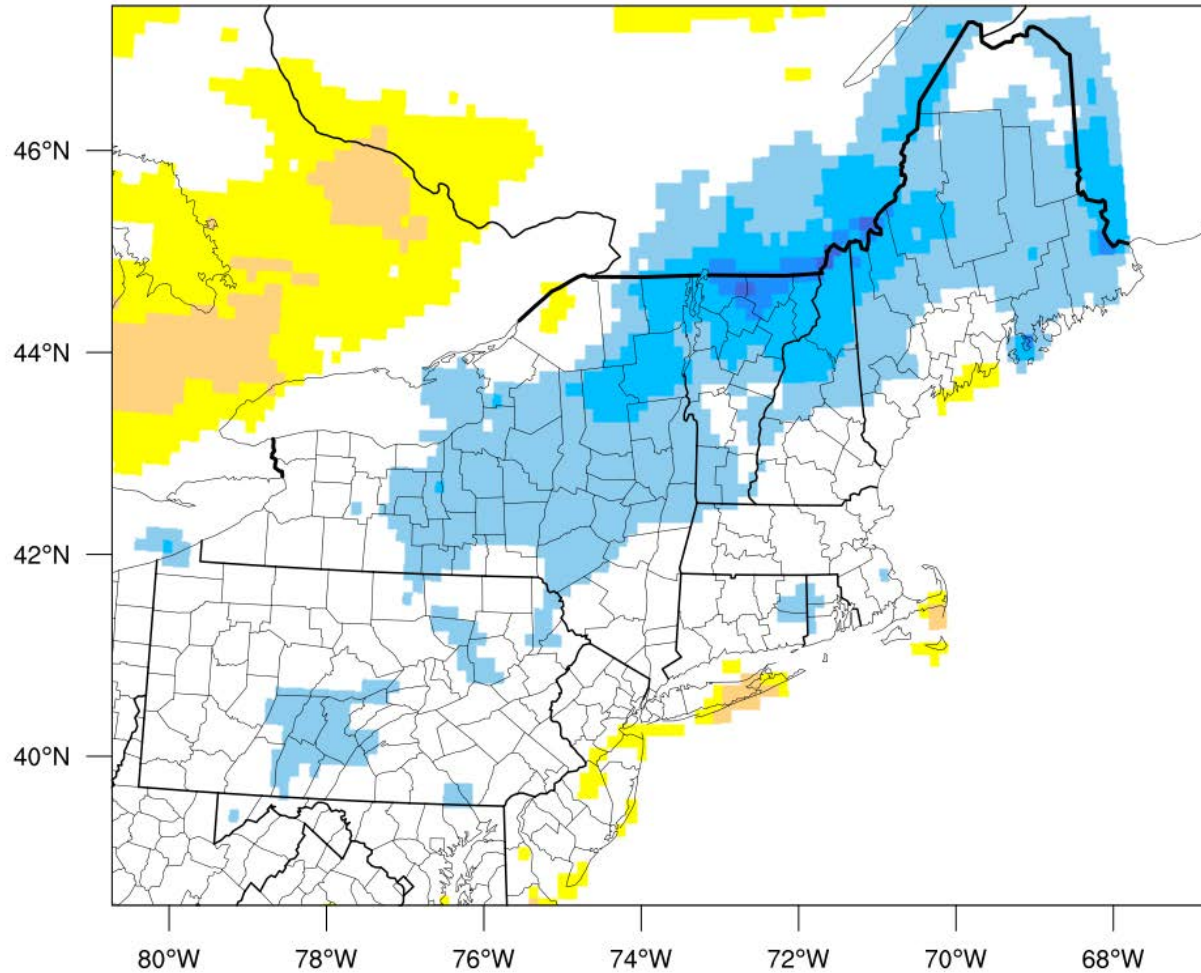


Standardized Precipitation Index



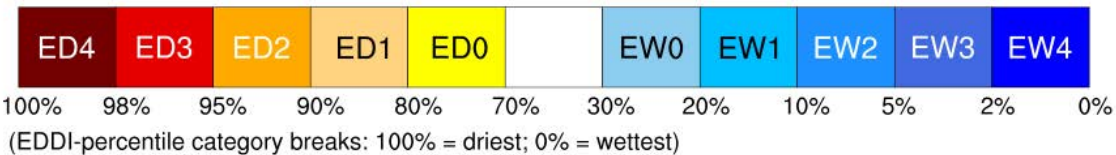
Evap. Demand Drought Index

3-week EDDI categories for September 23, 2022



Drought categories

Wetness categories

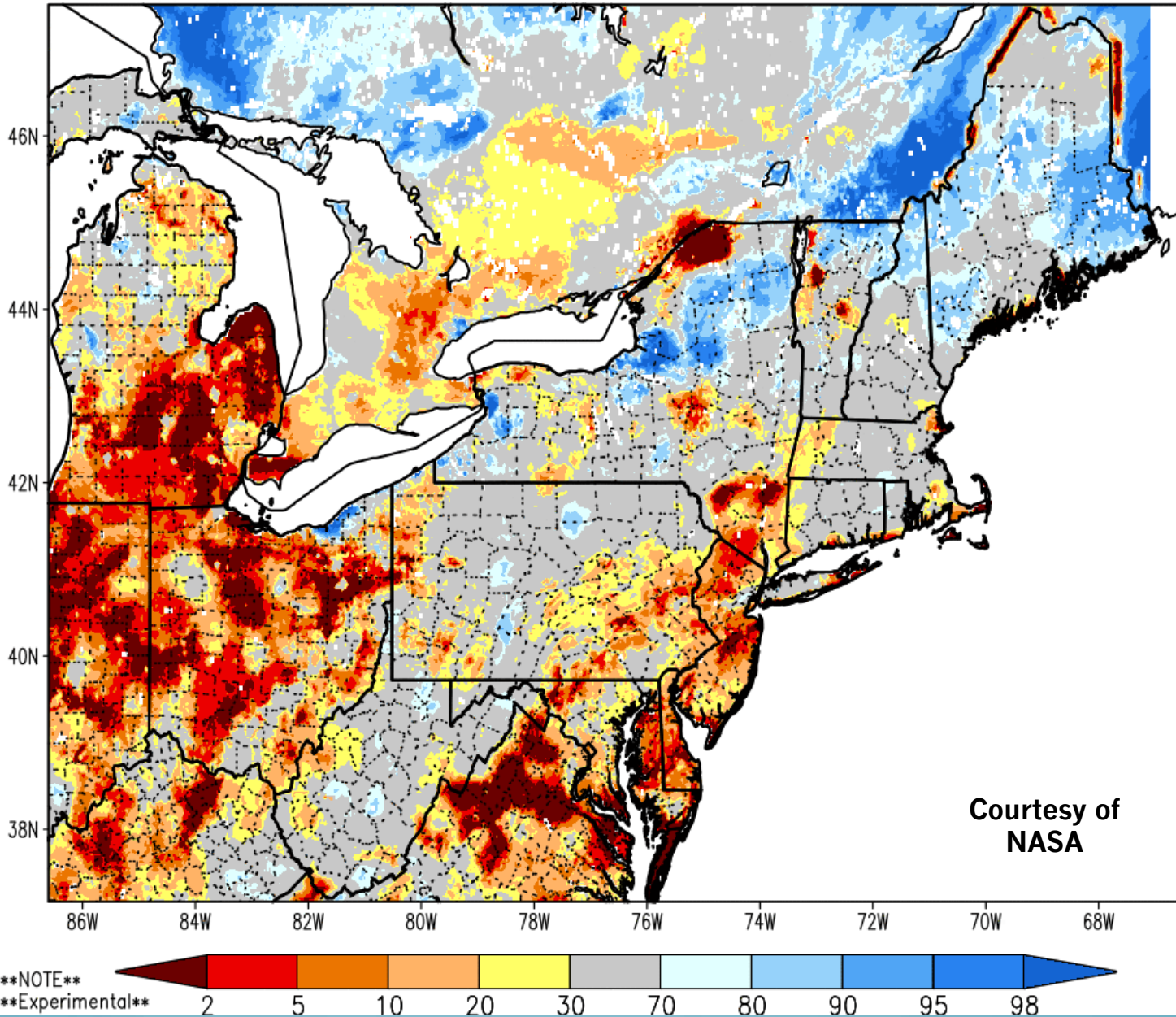


Generated by NOAA/ESRL/Physical Sciences Laboratory

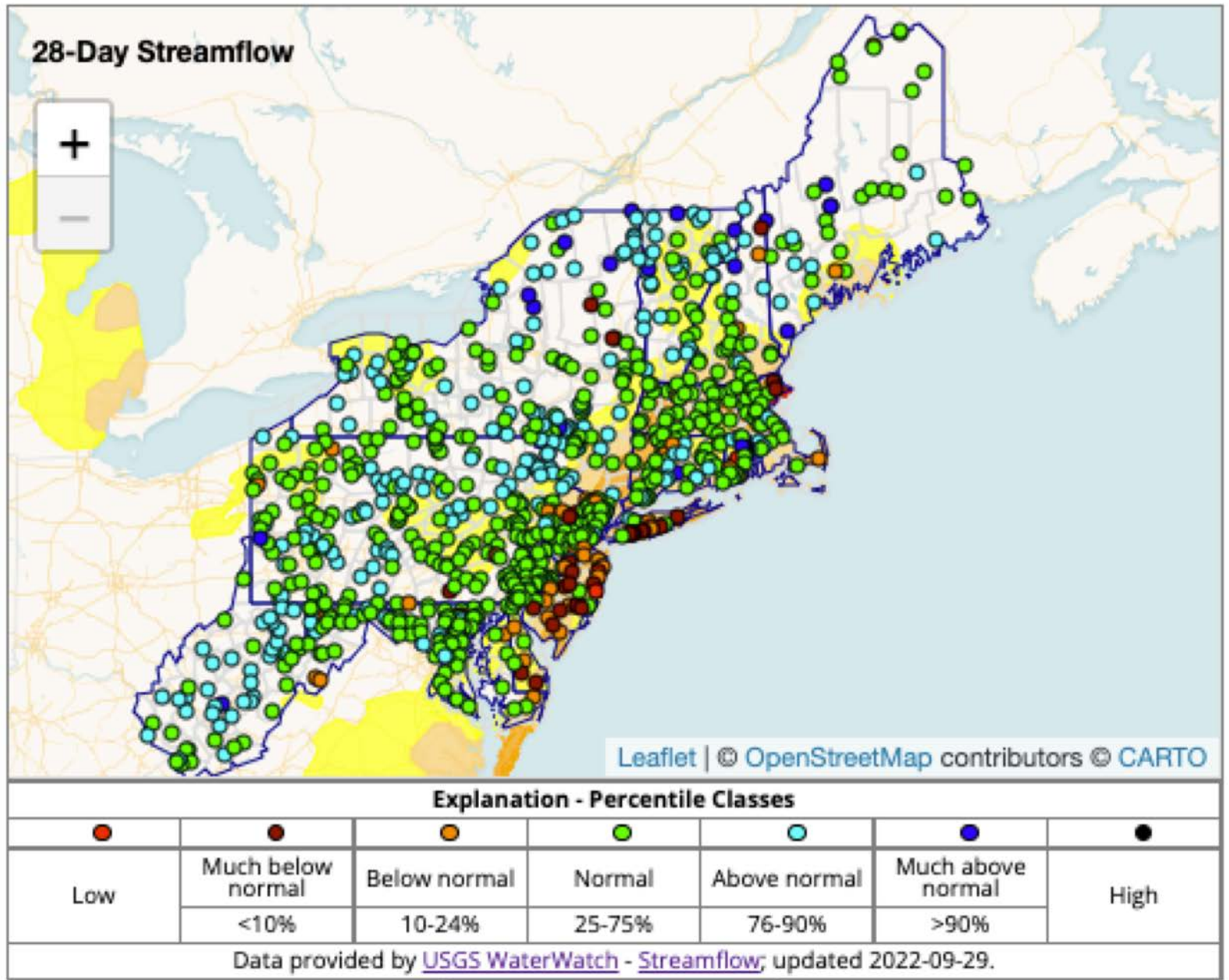


Soil Moisture

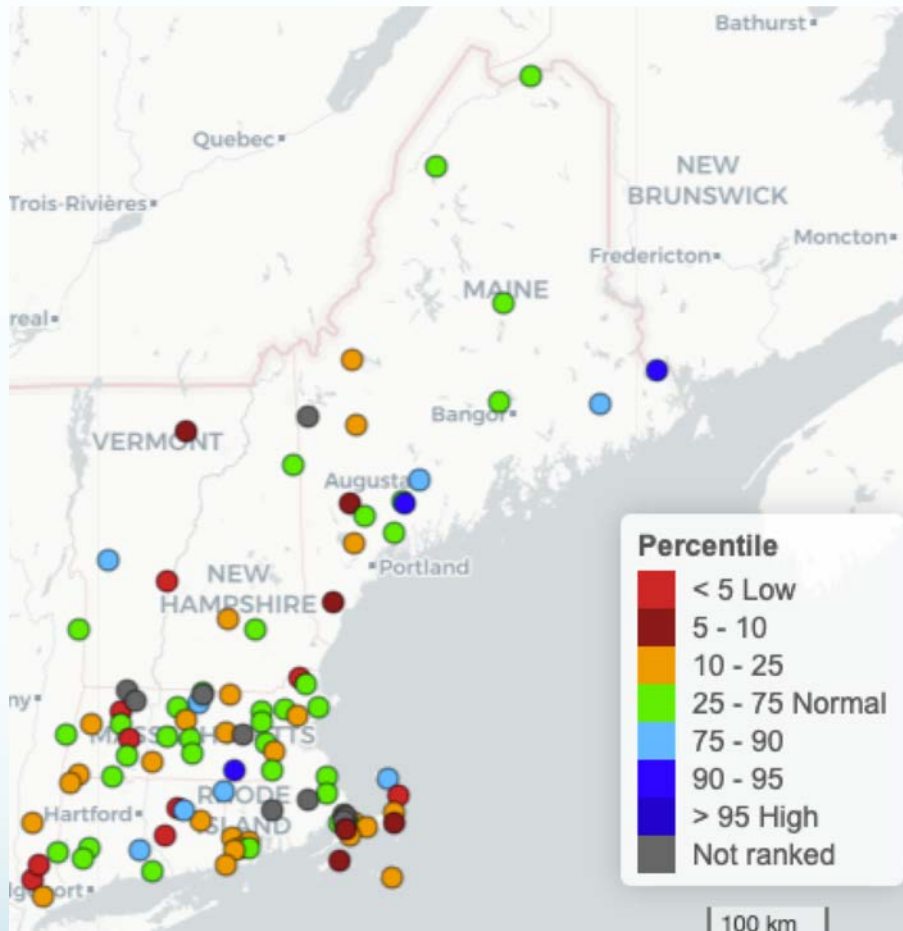
SPoRT-LIS 0-100 cm Soil Moisture percentile valid 29 Sep 2022



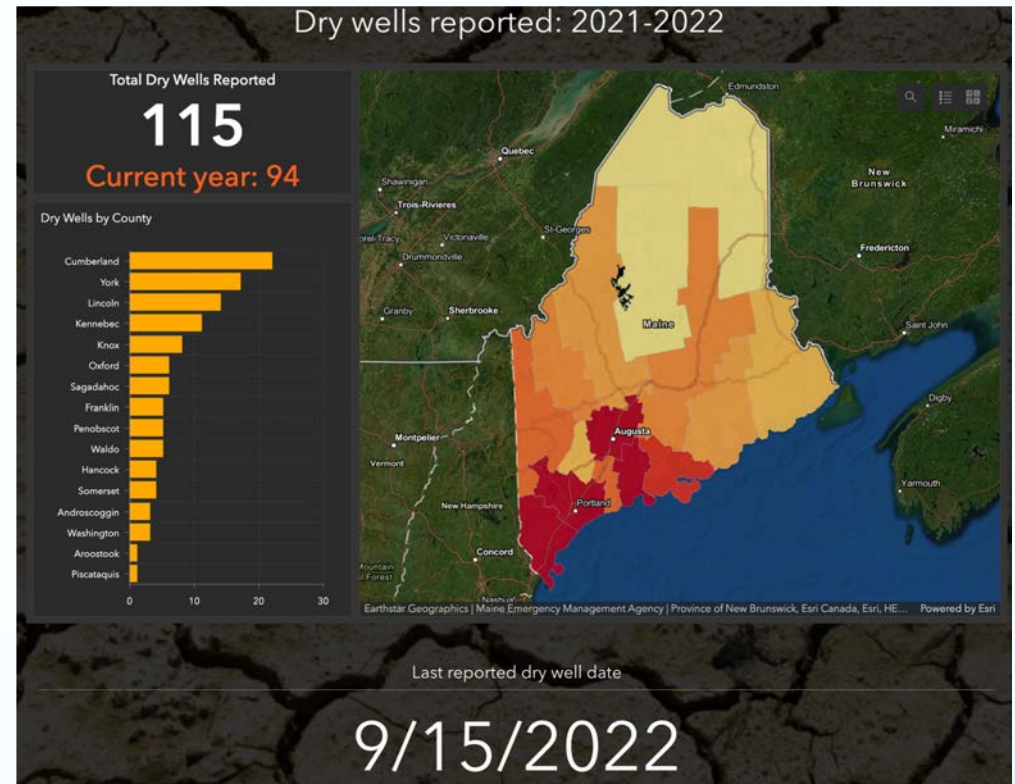
Streamflow



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

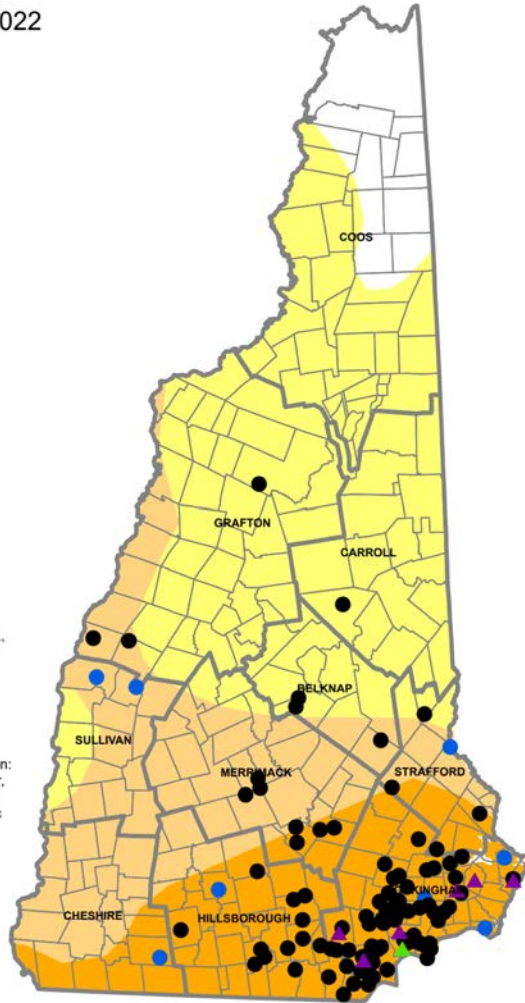


0 5 10 20 Miles



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.



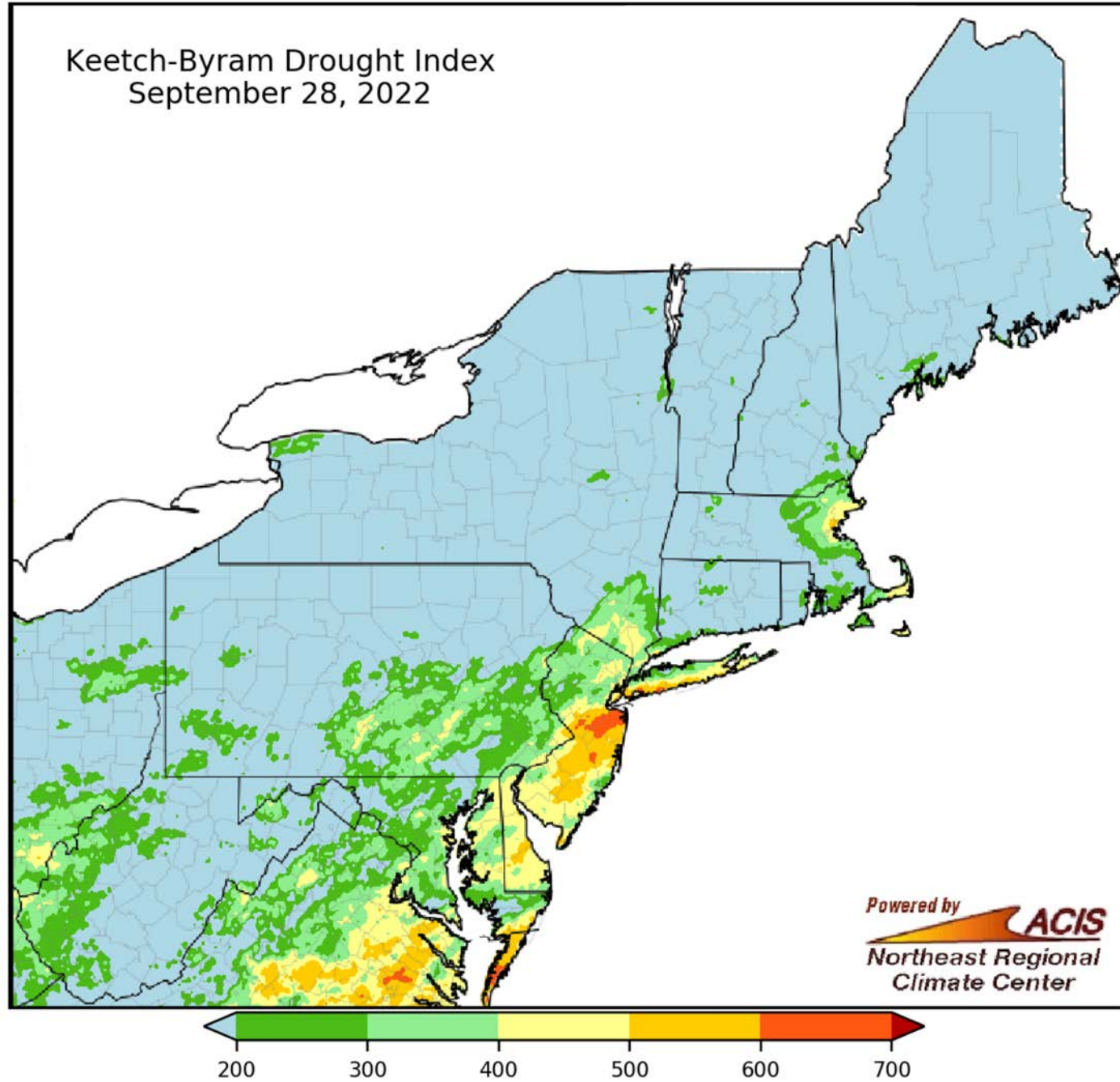
List of water suppliers employing non-essential water restrictions as of September 27, 2022

	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

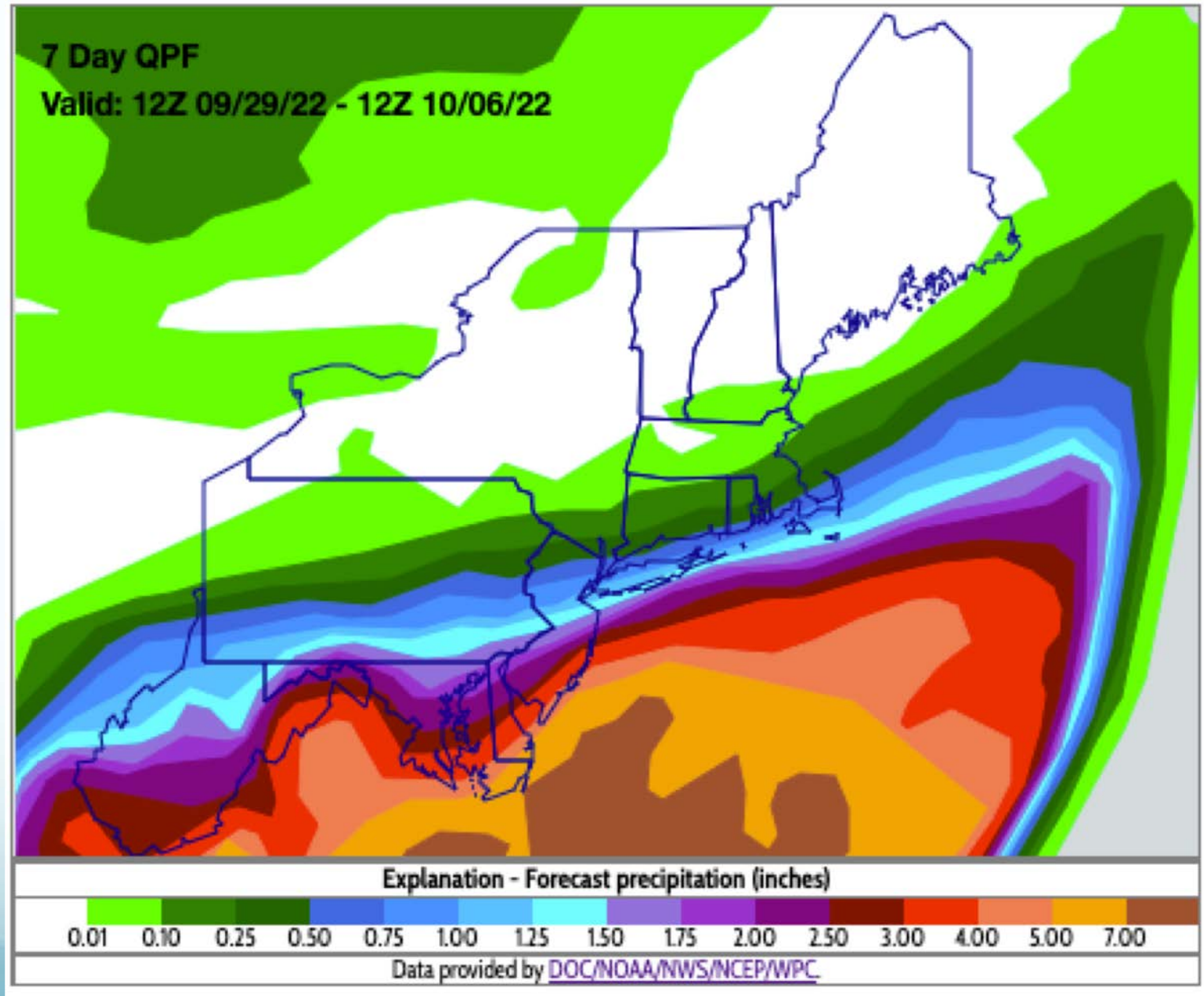
Too little, too late: Drought remains 'critical' despite rainfall, cooler weather

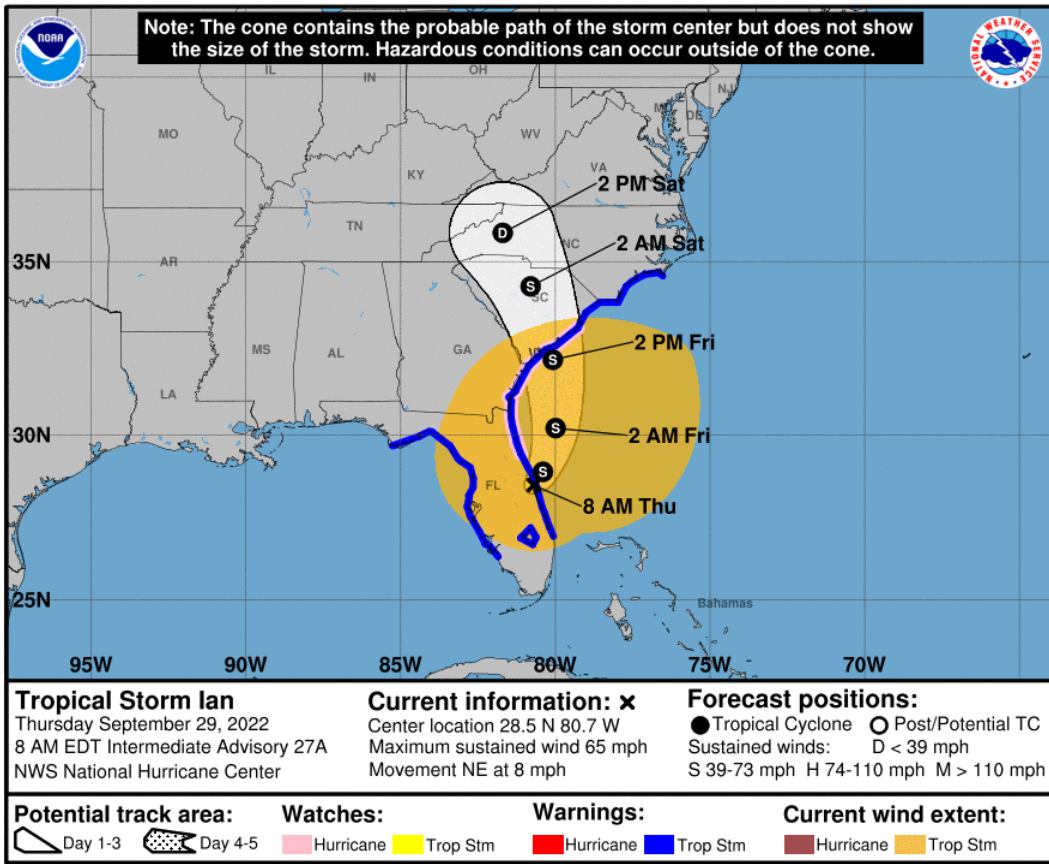


DROUGHT

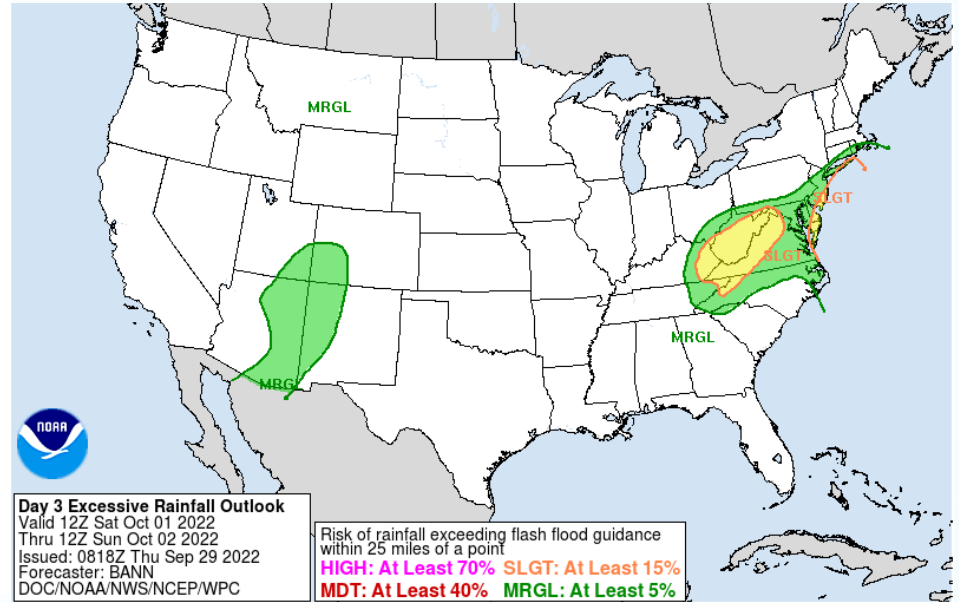
Drought Affecting Apple and Pumpkin Picking This Season

Precipitation Forecast

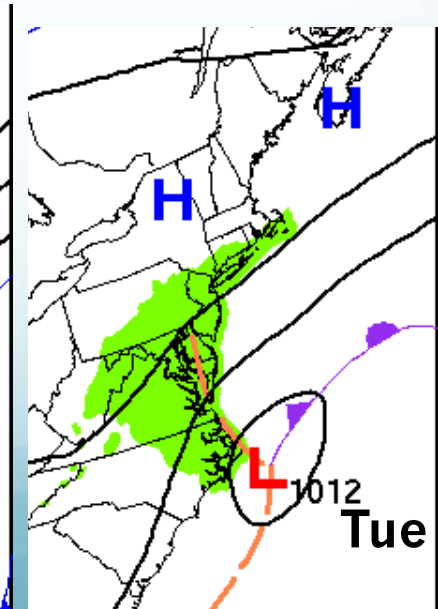
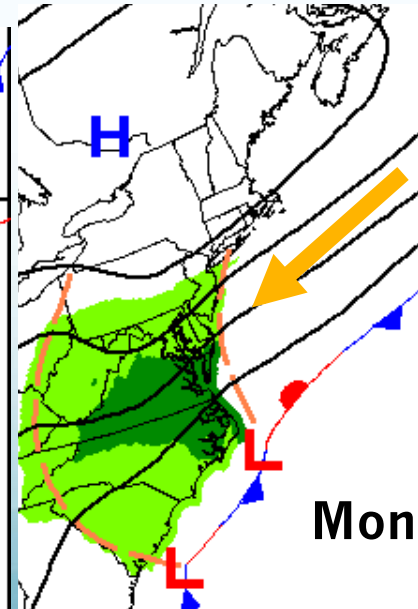
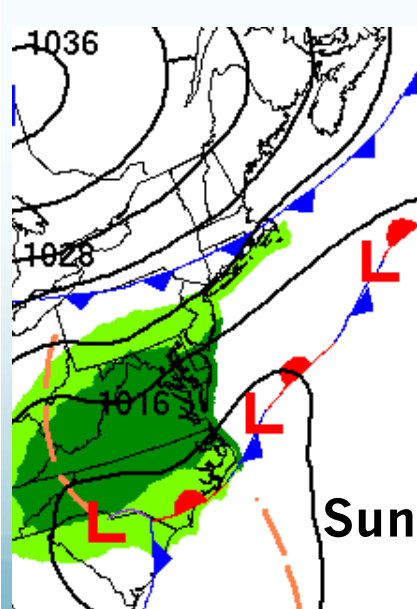
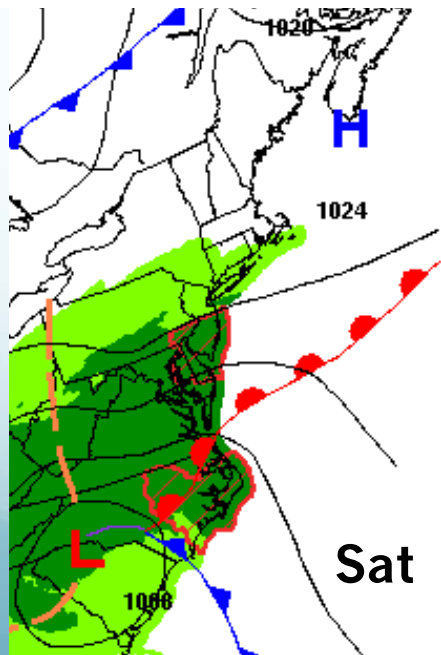




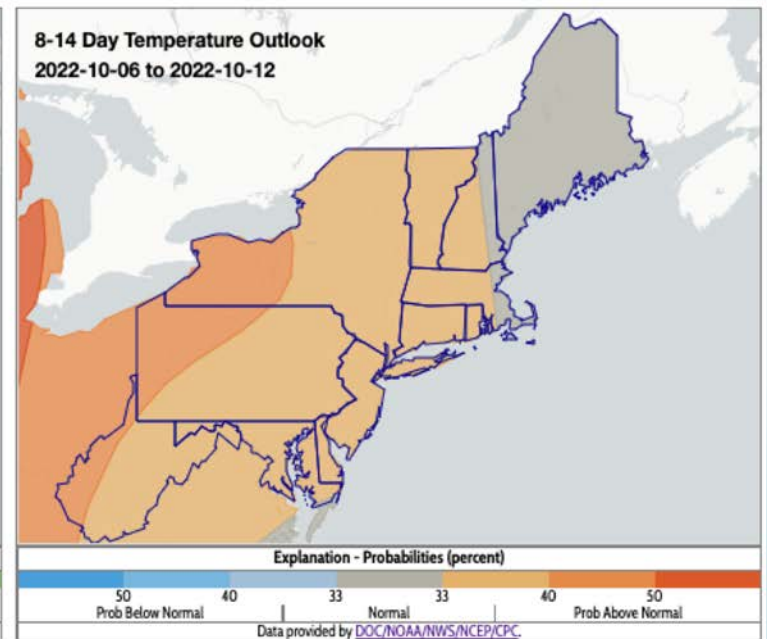
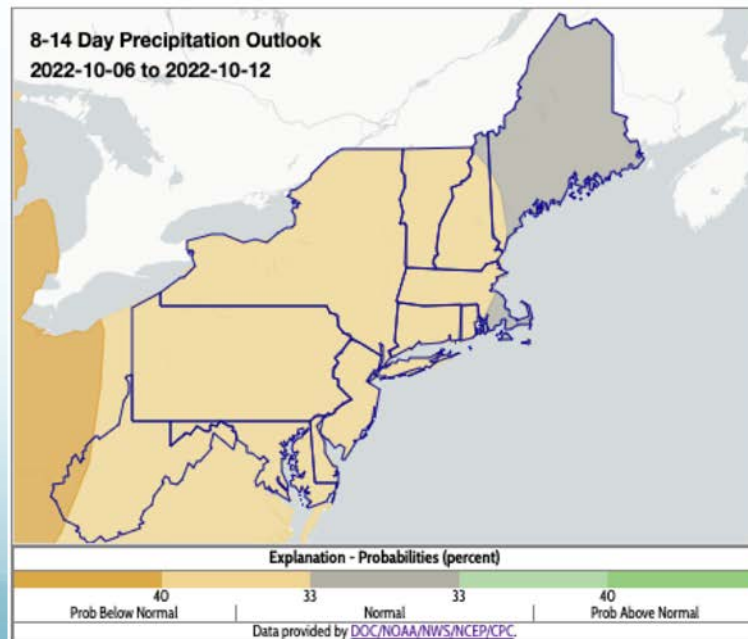
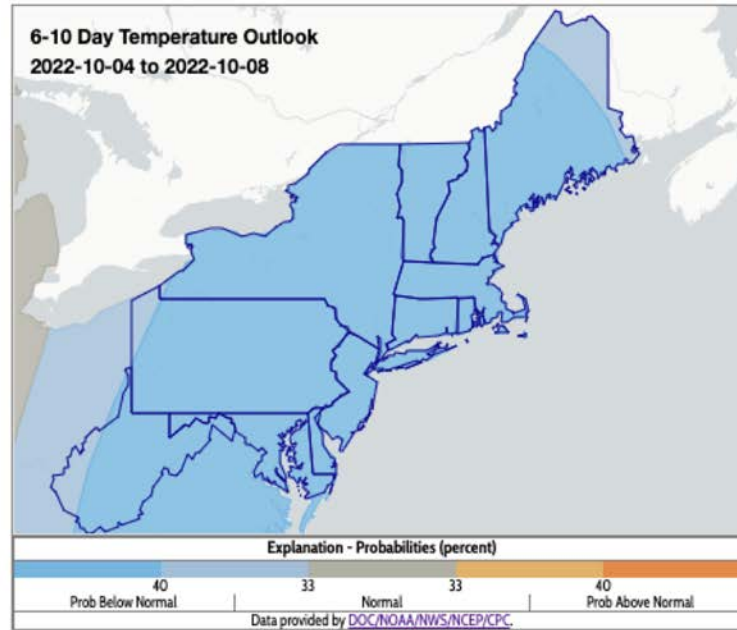
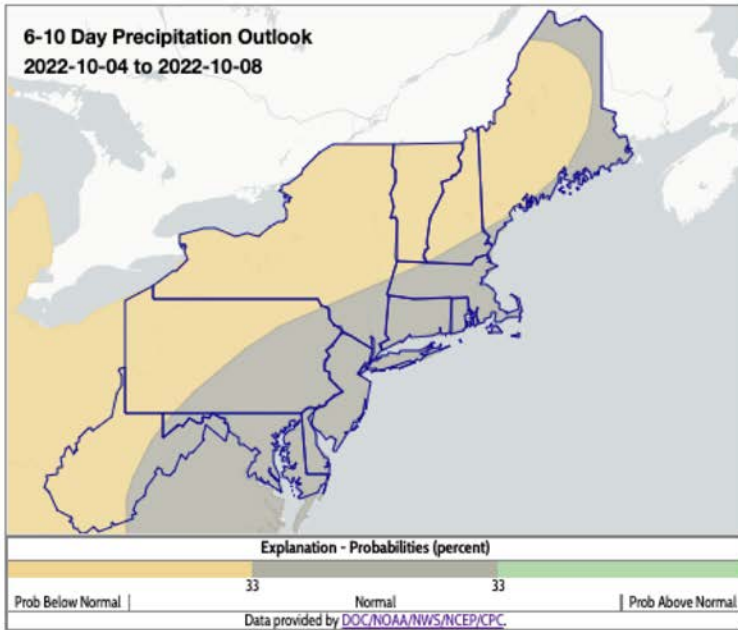
Precipitation Forecast



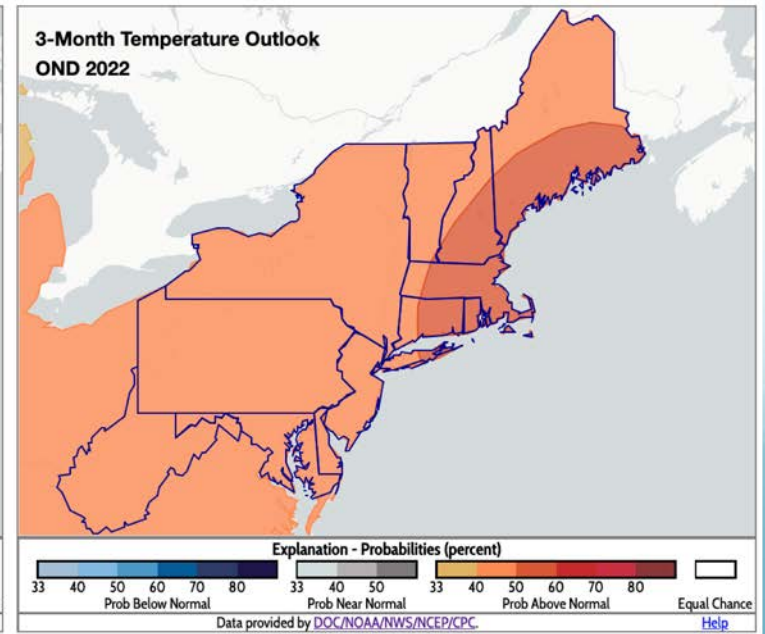
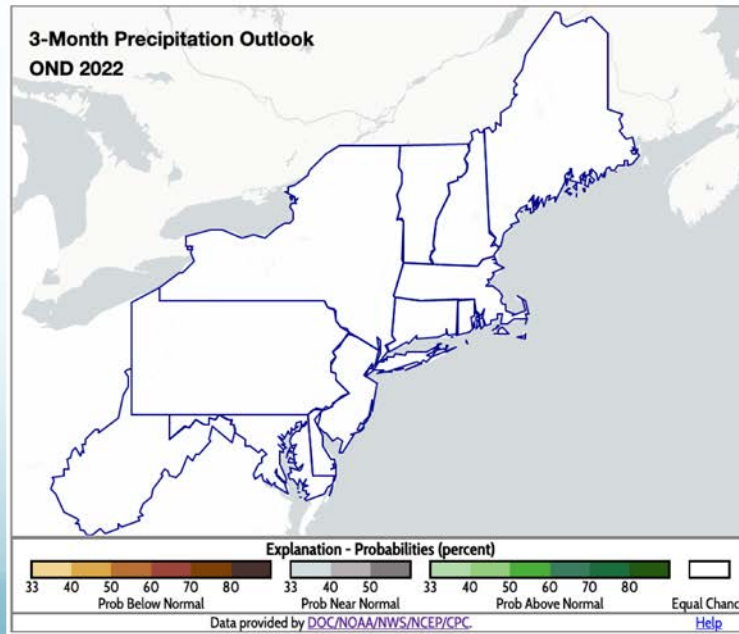
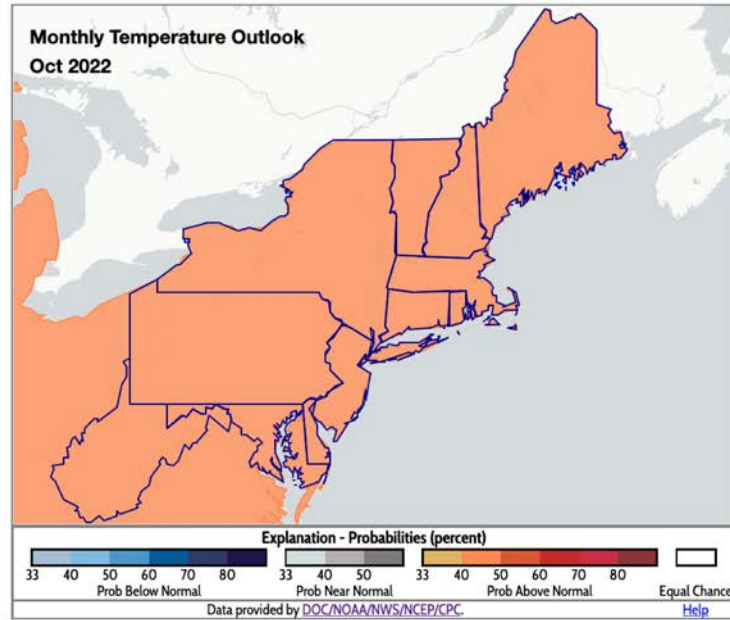
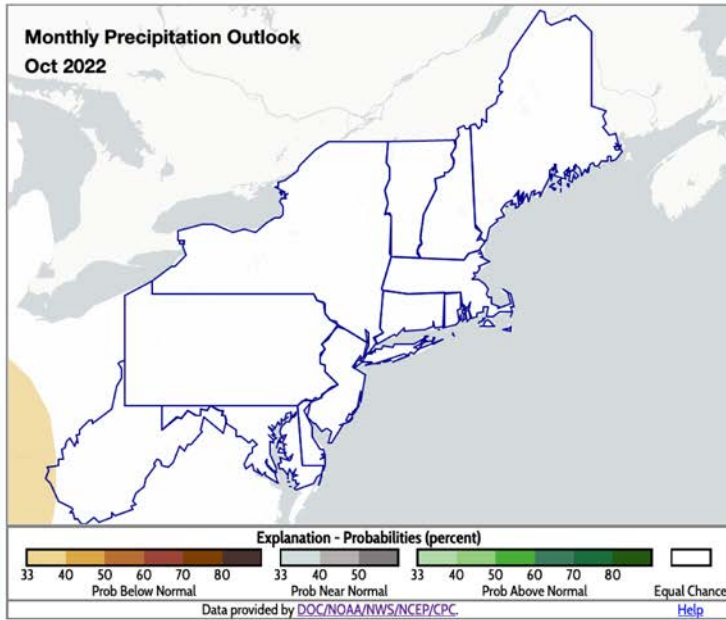
Maps courtesy of NOAA WPC



Short-term Outlooks



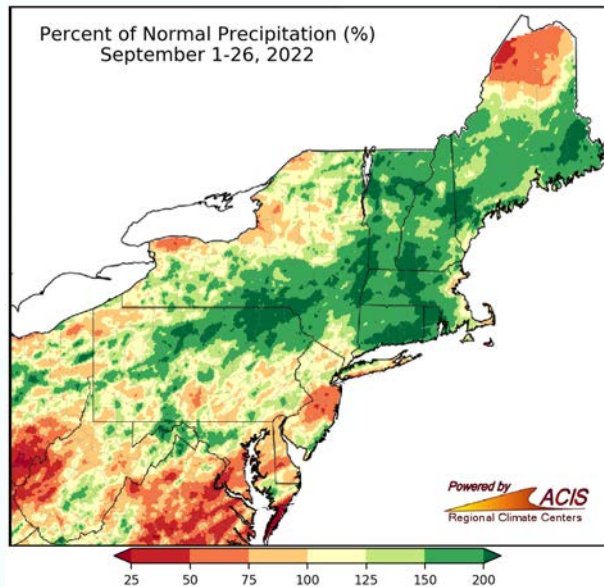
Monthly & 3-Month Outlooks



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

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



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