

October Conditions & Northeast DEWS Discussion

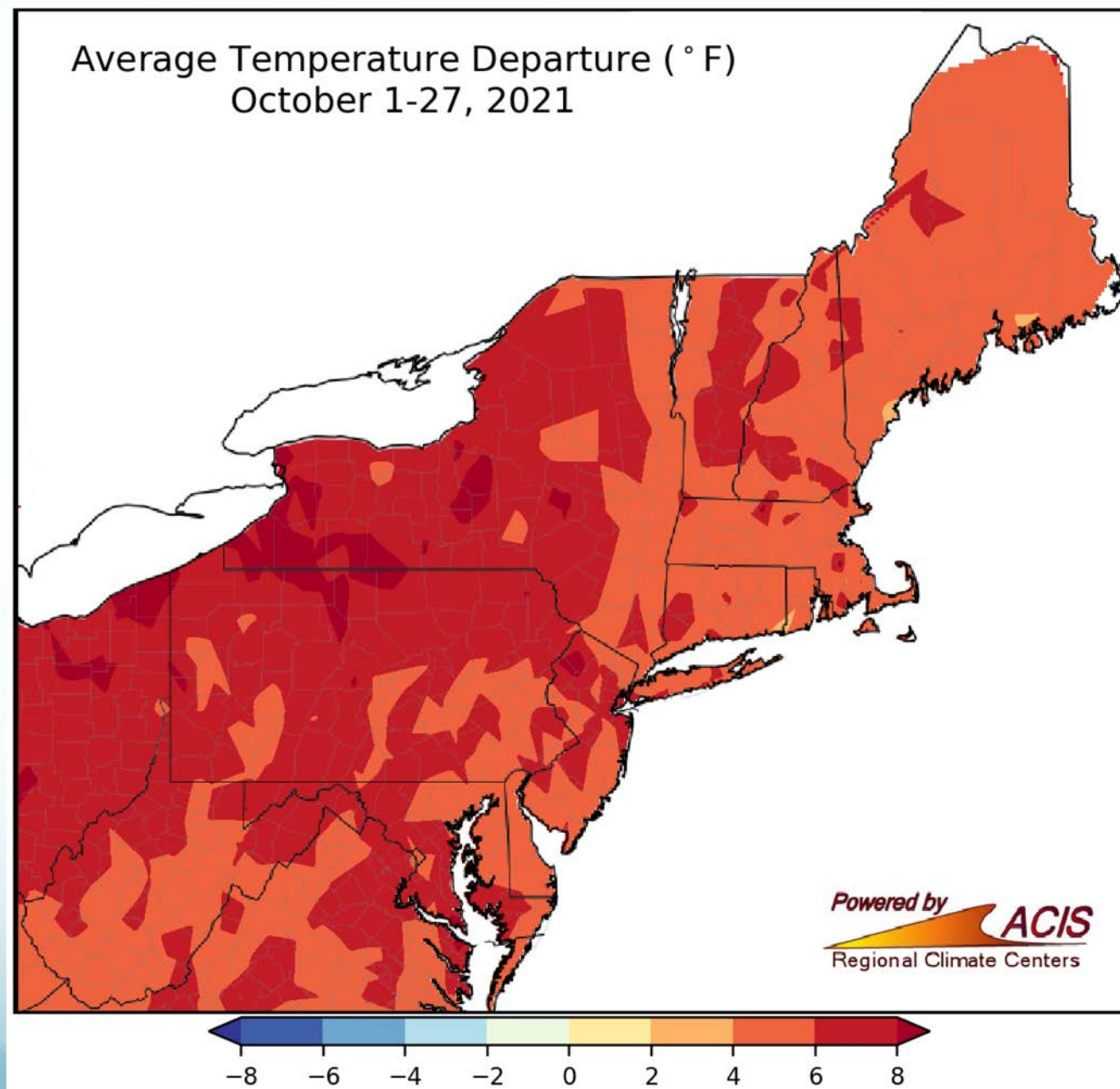
By: Samantha Borisoff, Climatologist
Northeast Regional Climate Center



Northeast Regional
Climate Center

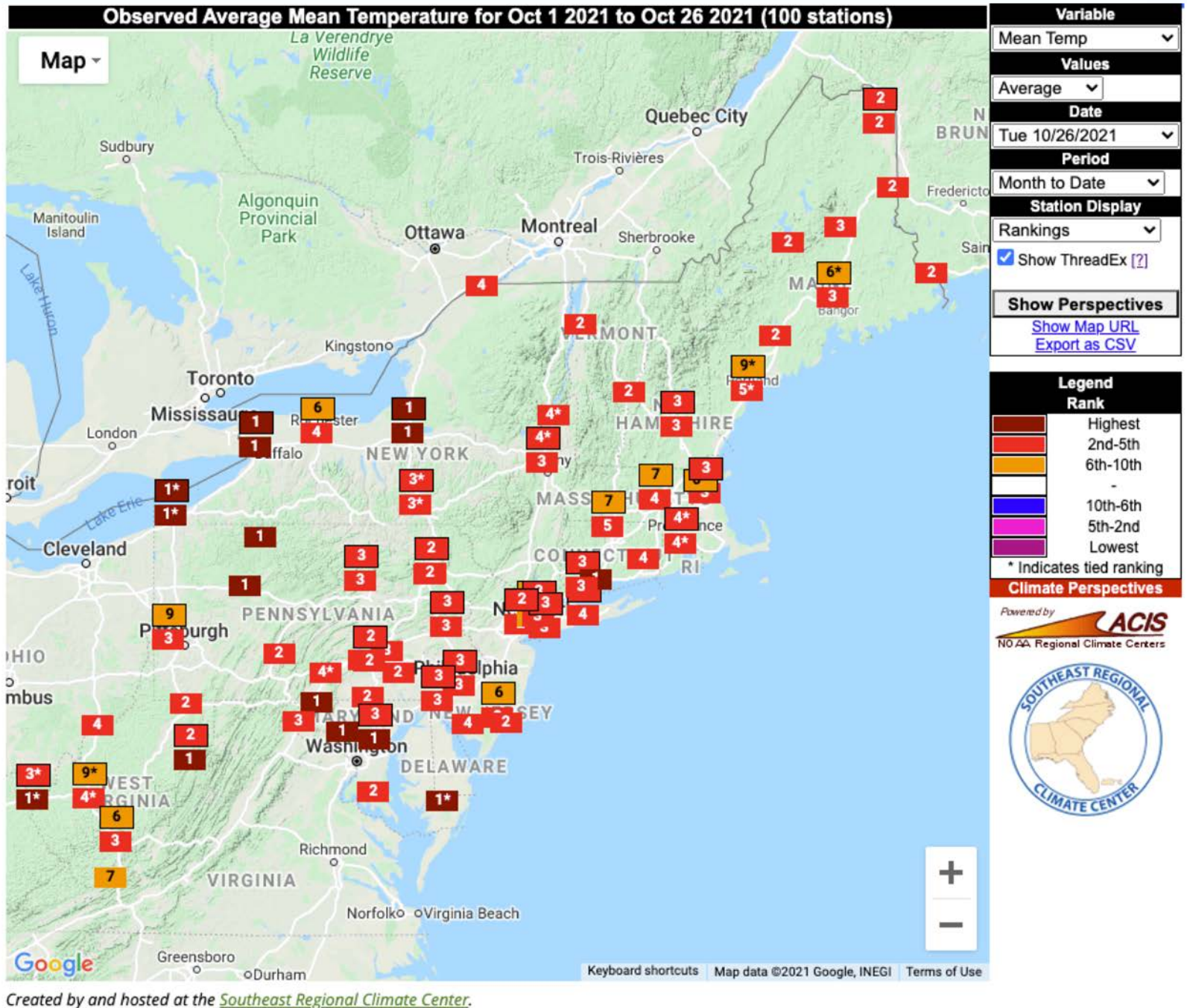


October Temperatures



From 4°F above normal to more than 8°F above normal

October Temperatures



October Temperatures



NWS Caribou ✓
@NWSCaribou

...

Caribou recorded a low of 32F this morning. That's the first reading of 32F or less this fall. That's the latest freeze since records started in 1939. The previous record was Oct 17, 1970.

10:40 AM · Oct 25, 2021 · Twitter Web App

Location	Average Date of First Frost*	Earliest	Latest	This Year	Rank (latest)
Caribou, ME	Sep. 25	Sep. 3	Oct. 17	Oct. 25	1
Concord, NH	Sep. 29	Aug. 29	Oct. 25	Oct. 24	2
Burlington, VT	Oct. 8	Sep. 13	Nov. 1	Oct. 24	9
Albany, NY	Oct. 11	Sep. 14	Nov. 12		
Binghamton, NY	Oct. 11	Sep. 20	Nov. 5		at least 5th
Elkins, WV	Oct. 11	Sep. 14	Nov. 2		at least 2nd
Portland, ME	Oct. 11	Sep. 14	Nov. 3	Oct. 24	
Hartford, CT	Oct. 15	Sep. 20	Nov. 11		
Scranton, PA	Oct. 16	Sep. 21	Nov. 15		
Beckley, WV	Oct. 17	Sep. 4	Nov. 12		at least 7th



NWS New York NY ✓
@NWSNewYorkNY

...

Central Park dropped to 49° last night, the first sub-50° reading of the season! This was the 2nd latest date on record.

Today's high of 58° was also the coldest day since May!

We'll be a hair cooler tonight across the Tri-State, with even a few 30s expected in the interior.

6:06 PM · Oct 18, 2021 · Twitter Web App

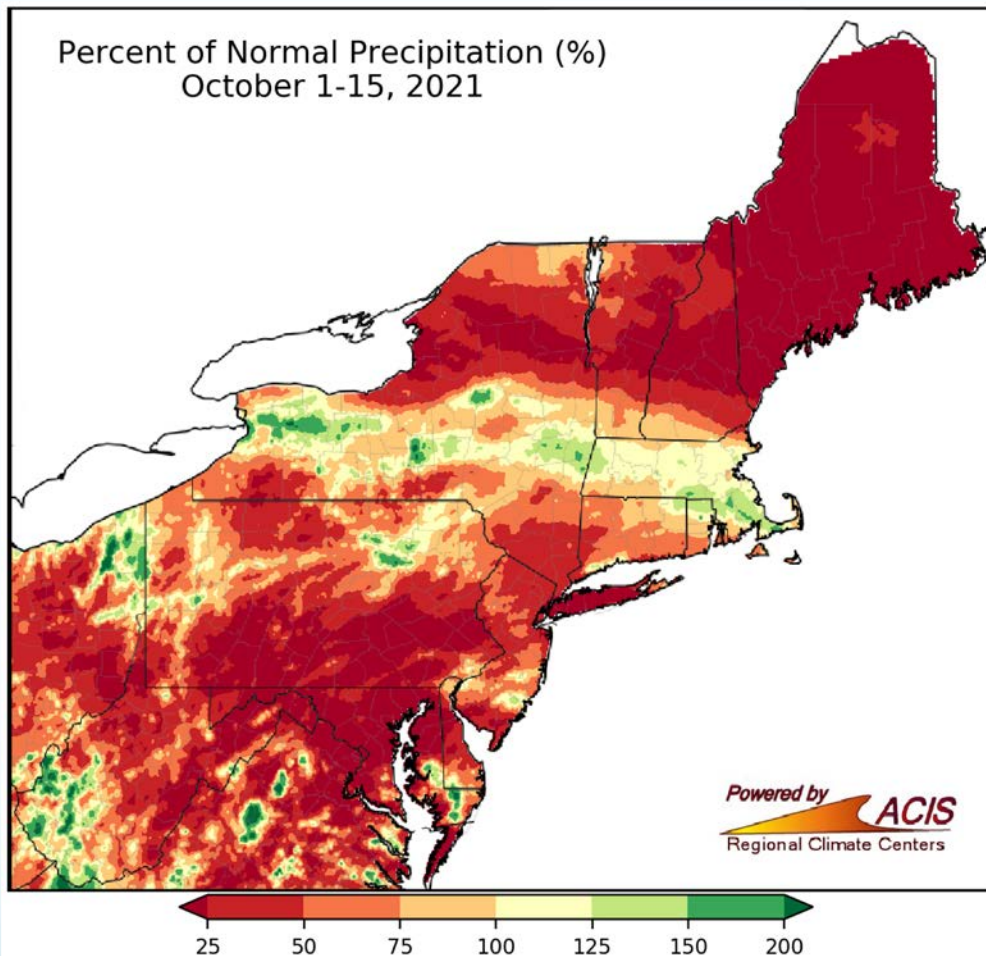
Location	Average Date of Min Temp <50°F*	Latest	This Year	Rank (latest)
Charleston, WV	Sep. 15	Oct. 12	Sep. 23	
Providence, RI	Sep. 15	Sep. 30	Oct. 1	1
Huntington, WV	Sep. 16	Oct. 11	Sep. 24	
Islip, NY	Sep. 17	Oct. 12	Oct. 1	3
Baltimore, MD	Sep. 19	Oct. 13	Oct. 1	
Harrisburg, PA	Sep. 19	Oct. 13	Oct. 1	6
Wilmington, DE	Sep. 19	Oct. 12	Oct. 1	5
Bridgeport, CT	Sep. 21	Oct. 12	Oct. 18	1
Boston, MA	Sep. 23	Oct. 13	Oct. 18	1
Newark, NJ	Sep. 25	Oct. 13	Oct. 18	1
Philadelphia, PA	Sep. 30	Oct. 20	Oct. 18	2
Kennedy Airport, NY	Oct. 2	Oct. 17	Oct. 19	1
Central Park, NY	Oct. 3	Oct. 20	Oct. 18	2
Washington, DC	Oct. 5	Oct. 23	Oct. 18	3
LaGuardia Airport, NY	Oct. 6	Oct. 25	not as of Oct. 27	1

*based on 1991-2020

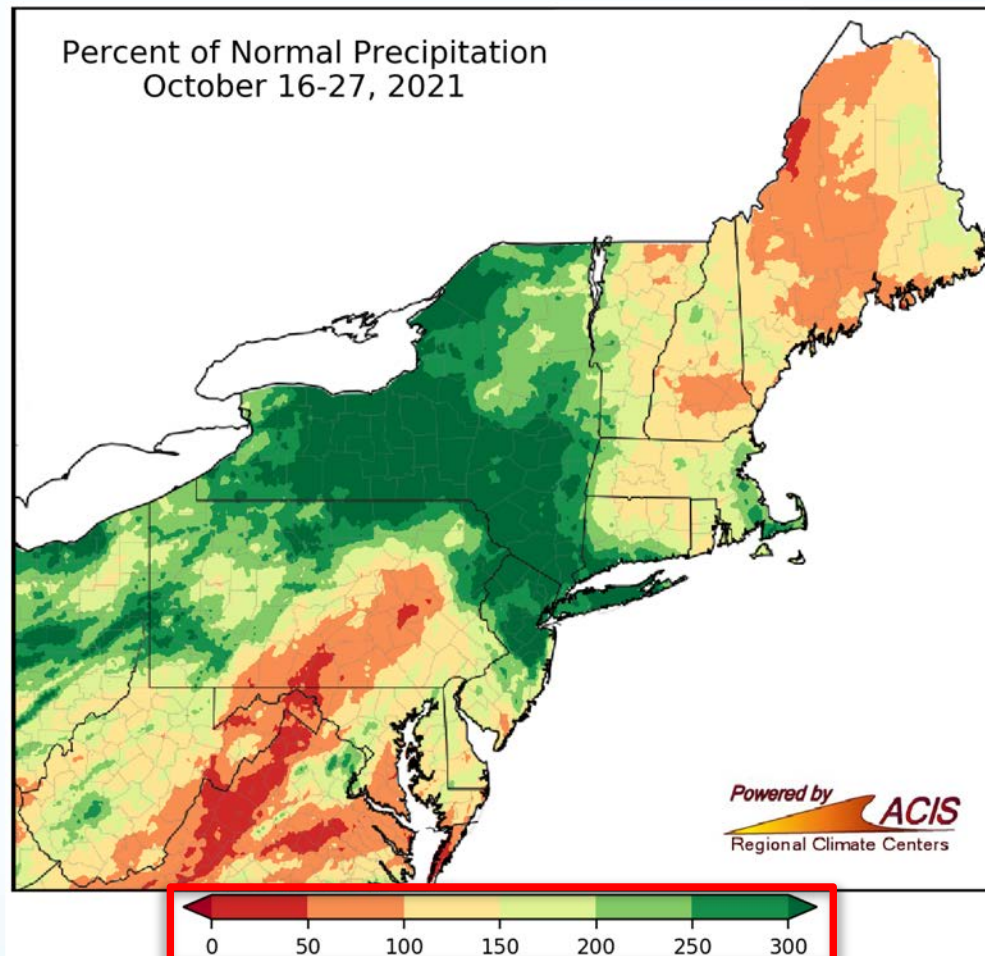


October Precipitation

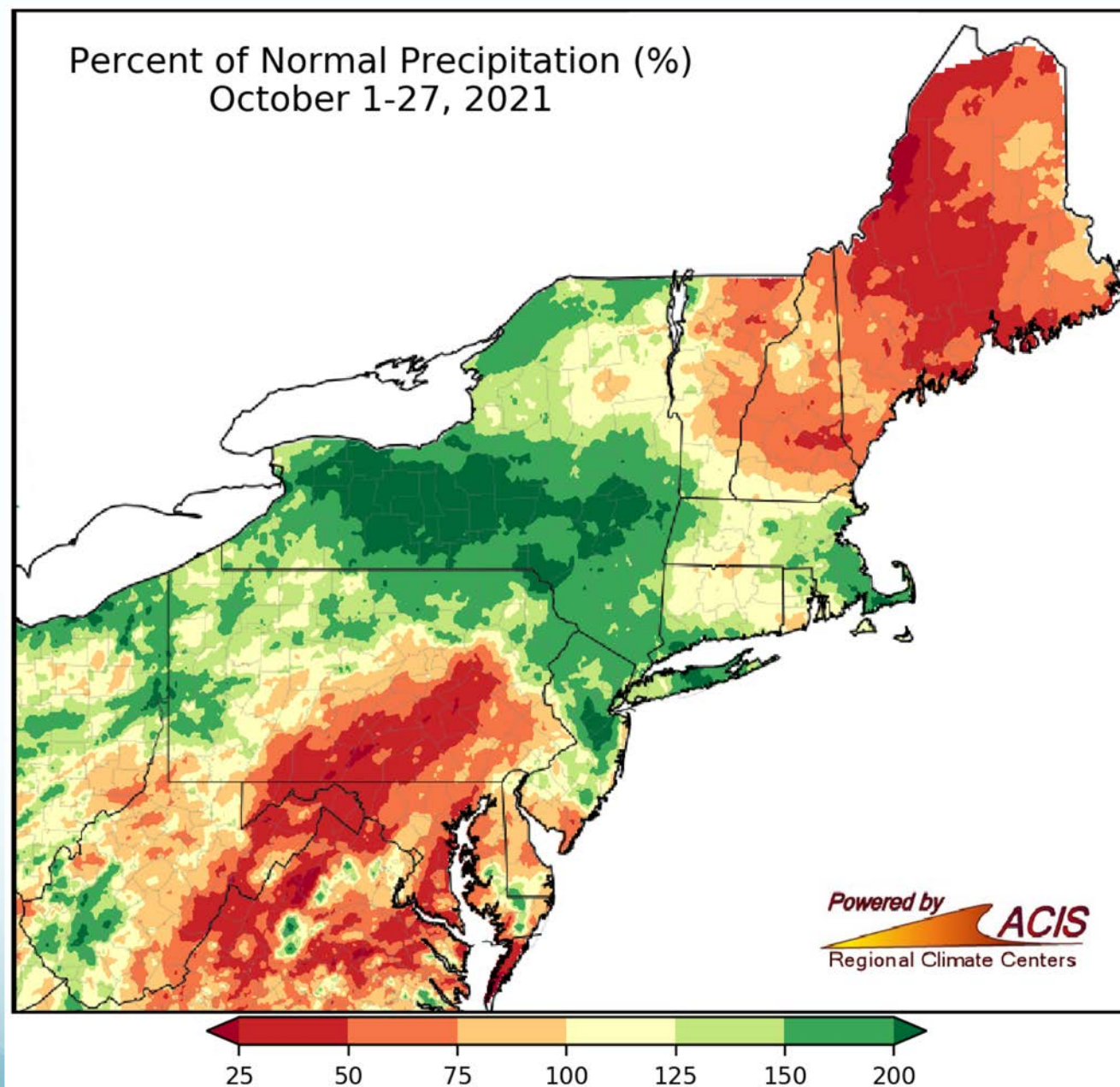
Percent of Normal Precipitation (%)
October 1-15, 2021



Percent of Normal Precipitation
October 16-27, 2021



October Precipitation

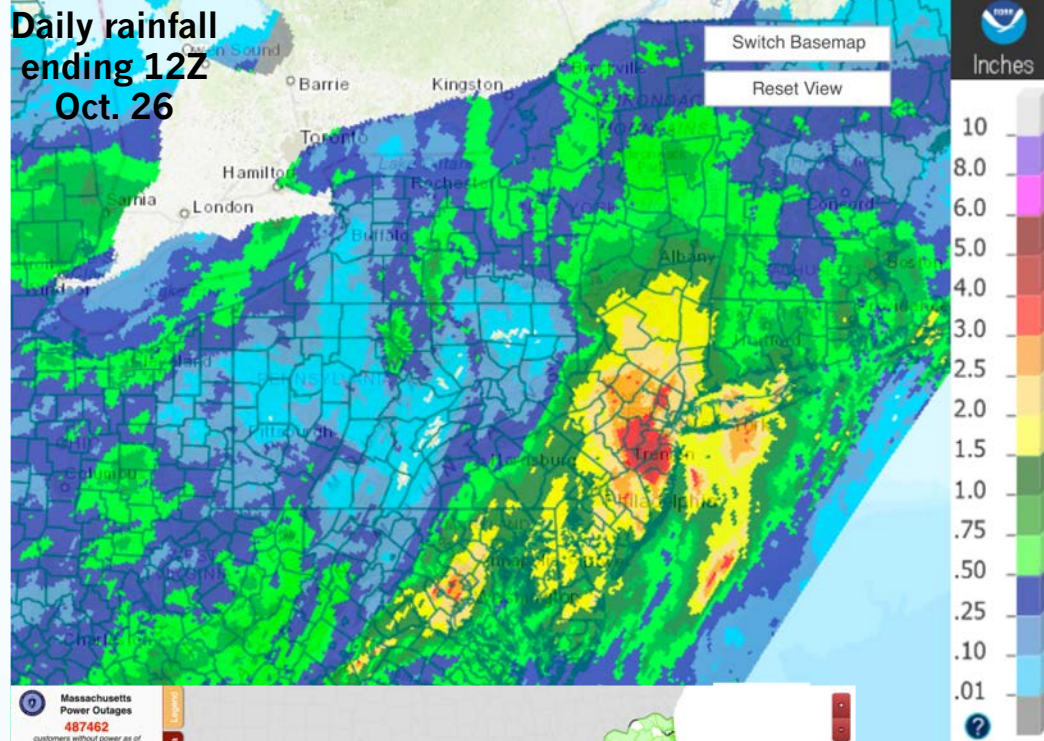


From 25% of normal to more than 200% of normal

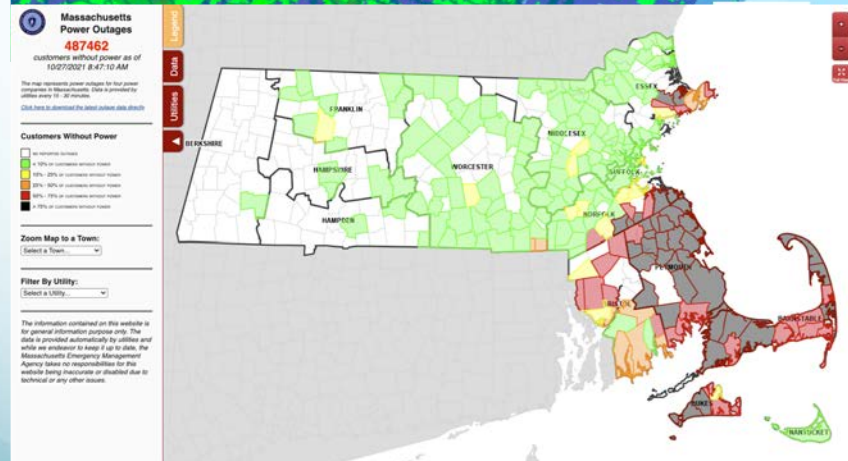
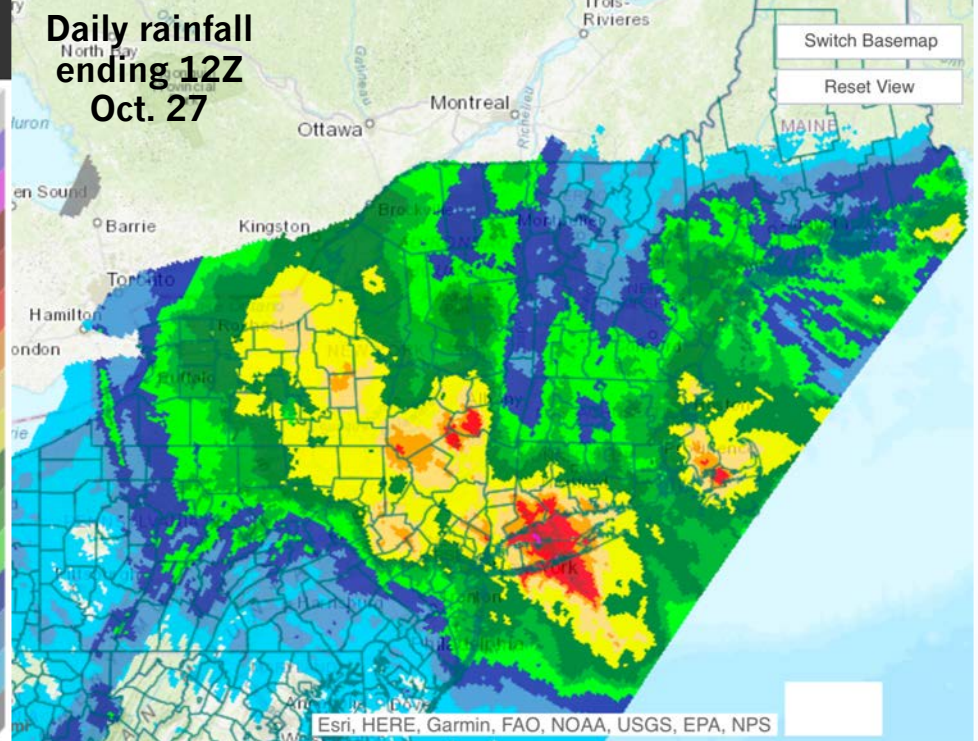


October 25-27 Nor'easter

Daily rainfall
ending 12Z
Oct. 26



Daily rainfall
ending 12Z
Oct. 27



...Barnstable County...

Dennis	84	426	AM	10/27	CWOP
Wellfleet	82	505	AM	10/27	WXFLOW
Hatch Beach	81	401	AM	10/27	WXFLOW
Chapin	76	327	AM	10/27	WXFLOW
West Dennis	73	332	AM	10/27	WXFLOW

Flash Flood Emergency

Valid Until
8:15 PM EDT Tuesday
October 26, 2021

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

Safety Information



Move immediately to higher ground!

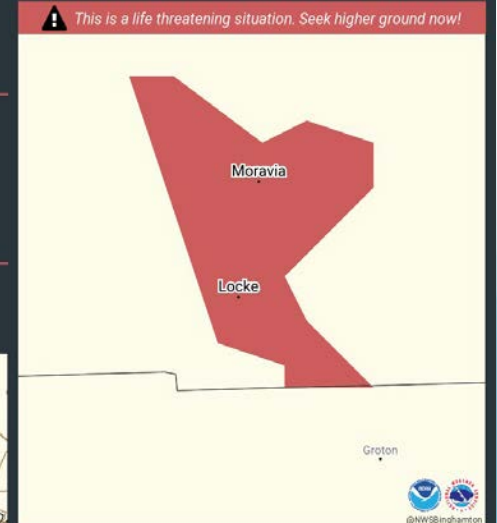


Avoid walking or driving through flood waters!

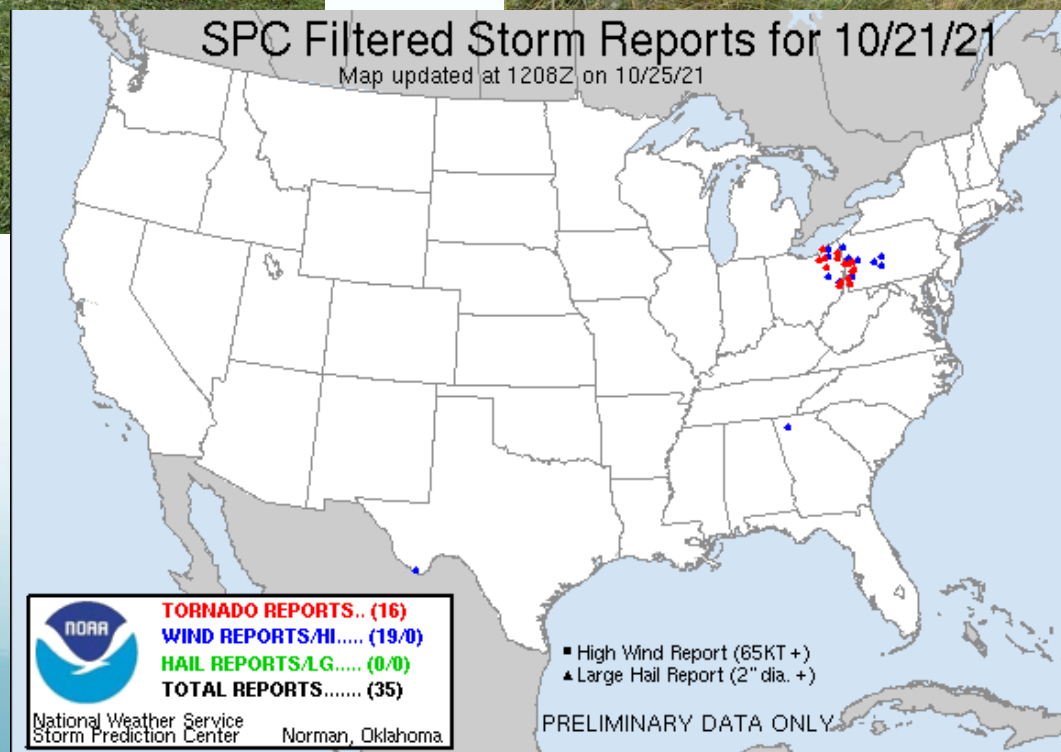
Potential Exposure



Population: 4,332
Schools: 2
Hospitals: 0

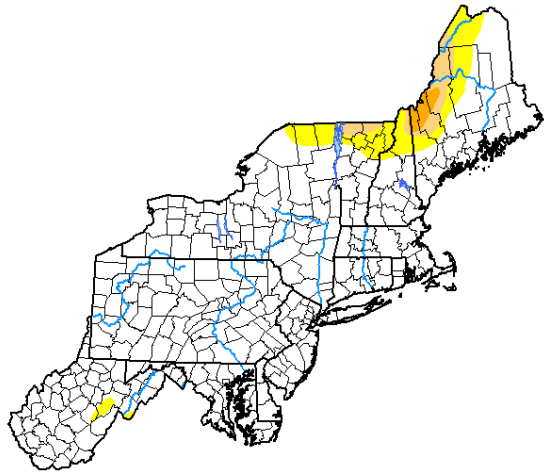


October Severe



Drought Monitor

U.S. Drought Monitor Northeast Climate Region



September 28, 2021
(Released Thursday, Sep. 30, 2021)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	90.30	6.56	2.35	0.80	0.00	0.00
Last Week 09-21-2021	86.21	7.97	5.03	0.80	0.00	0.00
3 Months Ago 06-29-2021	58.59	21.37	16.53	3.51	0.00	0.00
Start of Calendar Year 12-29-2020	77.60	18.77	3.63	0.00	0.00	0.00
Start of Water Year 09-29-2020	29.84	24.85	19.05	22.37	3.89	0.00
One Year Ago 09-29-2020	29.84	24.85	19.05	22.37	3.89	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>

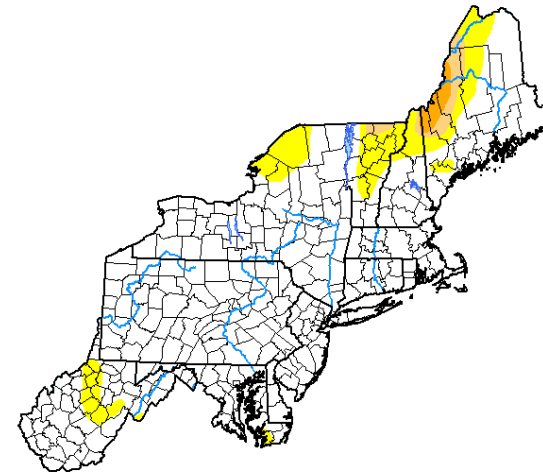
Author

Brian Fuchs
National Drought Mitigation Center



droughtmonitor.unl.edu

U.S. Drought Monitor Northeast Climate Region



October 26, 2021
(Released Thursday, Oct. 28, 2021)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	86.61	10.46	1.87	1.07	0.00	0.00
Last Week 10-19-2021	86.61	10.46	1.87	1.07	0.00	0.00
3 Months Ago 07-27-2021	77.06	14.26	7.31	1.38	0.00	0.00
Start of Calendar Year 12-29-2020	77.60	18.77	3.63	0.00	0.00	0.00
Start of Water Year 09-29-2021	90.30	6.56	2.35	0.80	0.00	0.00
One Year Ago 10-27-2020	28.93	23.91	36.25	8.92	1.99	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>

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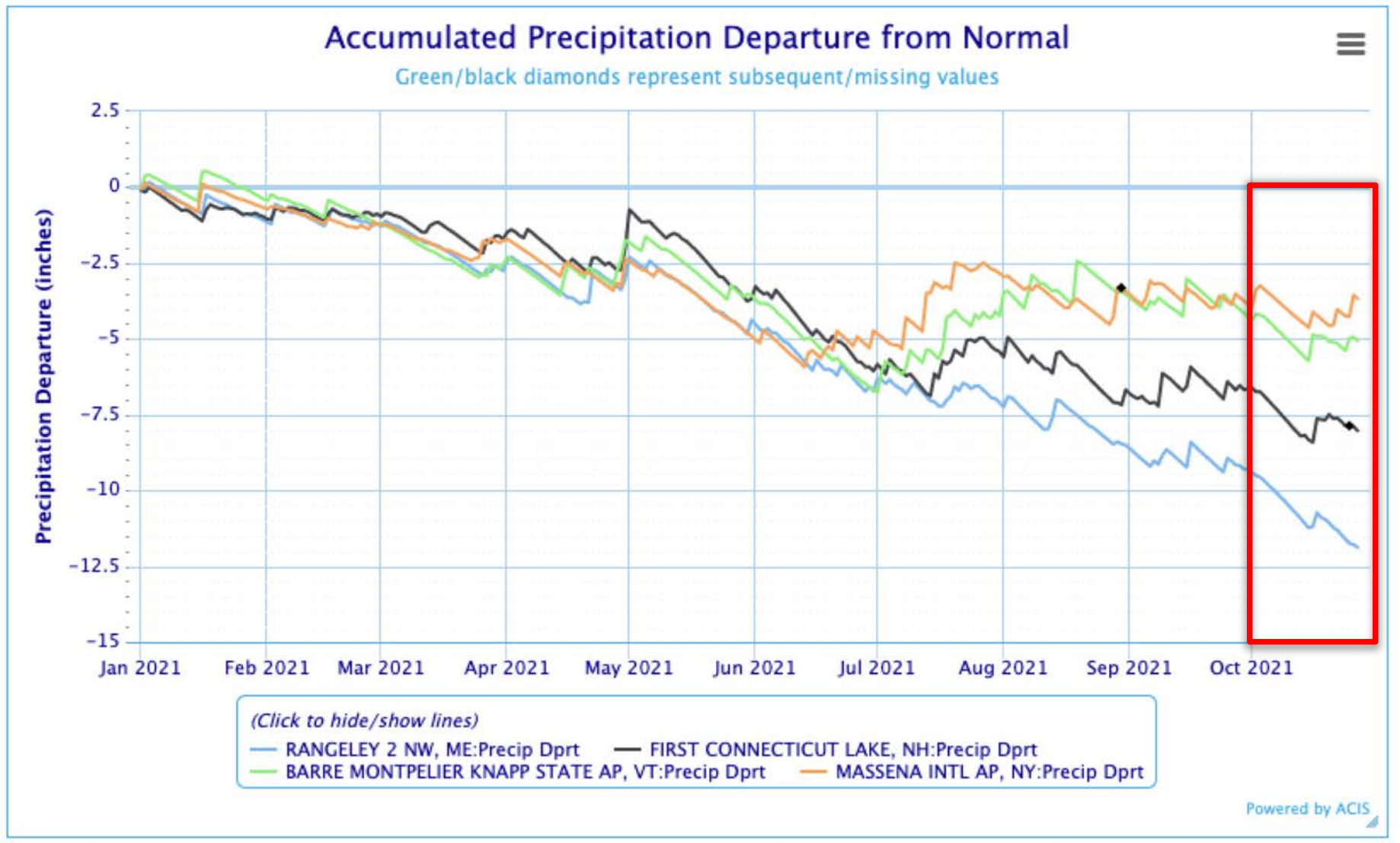
Richard Heim
NCEI/NOAA



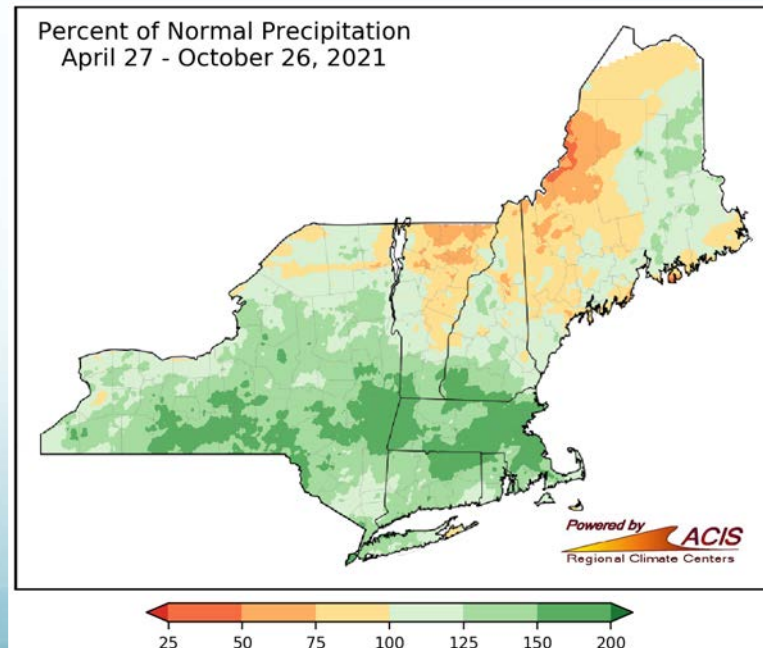
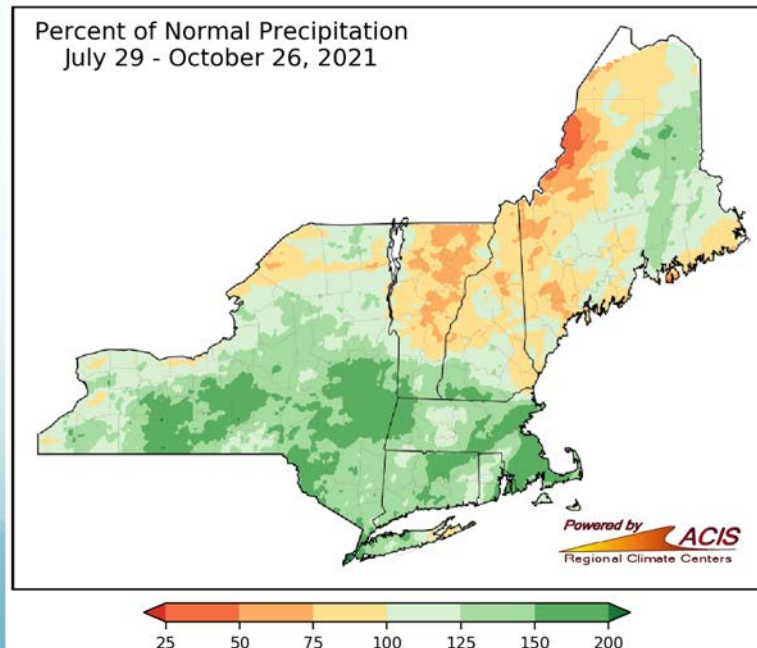
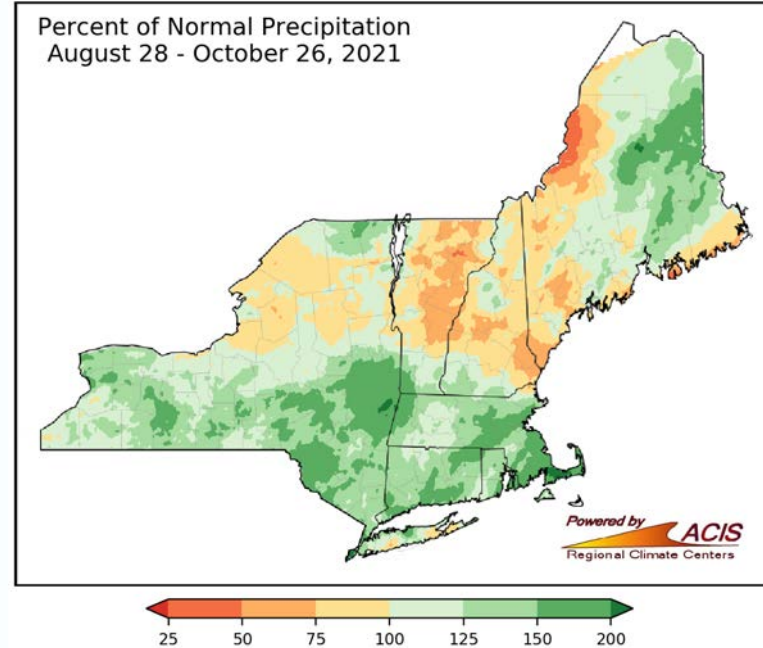
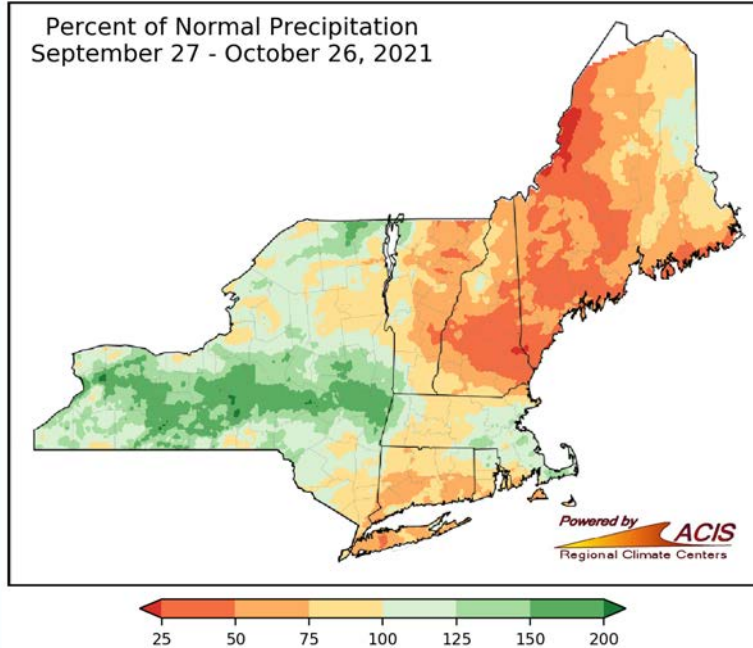
droughtmonitor.unl.edu



Precipitation

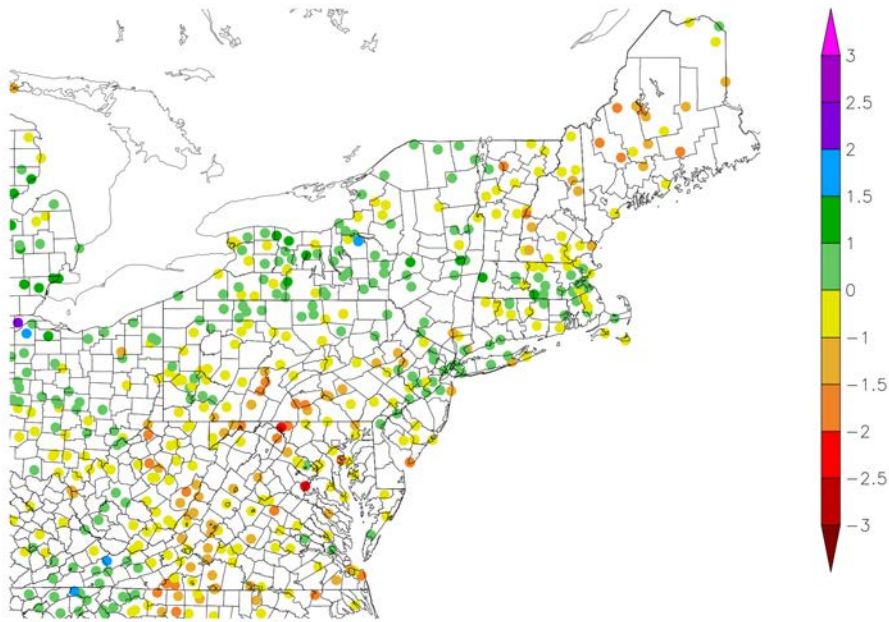


Precipitation



Standardized Precipitation Index

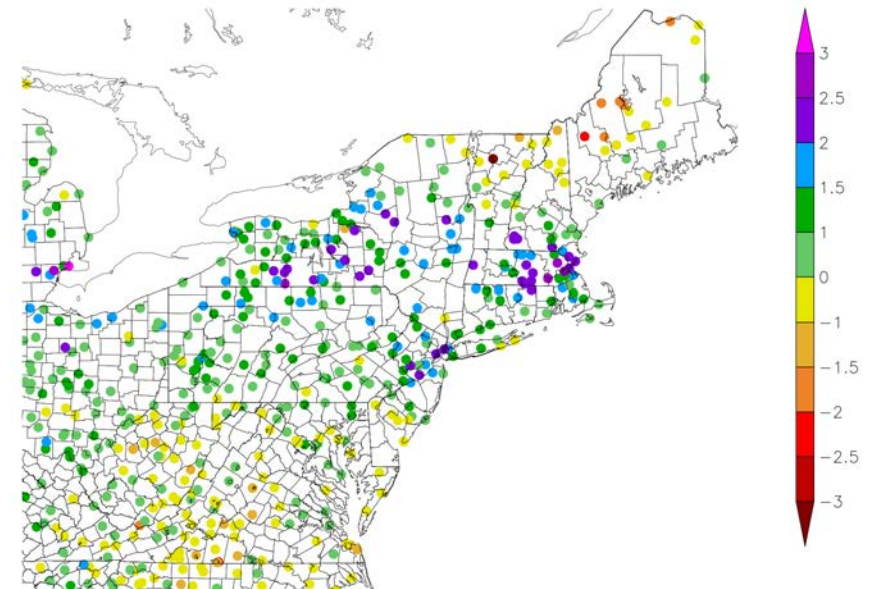
30 Day SPI
9/27/2021 – 10/26/2021



Generated 10/27/2021 at HPRCC using provisional data.

NOAA Regional Climate Centers

6 Month SPI
4/27/2021 – 10/26/2021



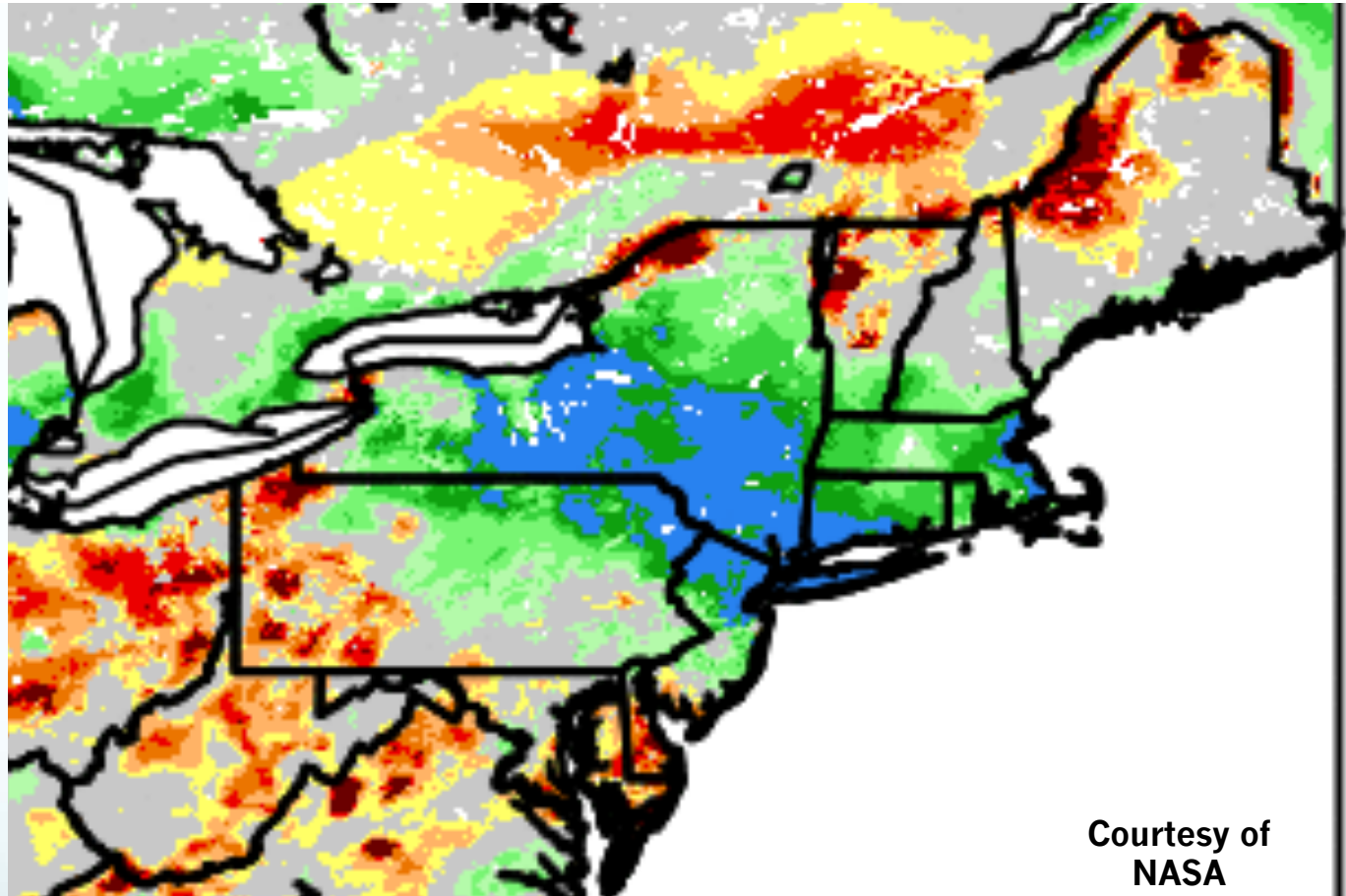
Generated 10/27/2021 at HPRCC using provisional data.

NOAA Regional Climate Centers

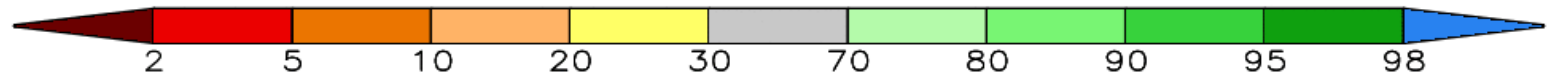


Soil Moisture

SPoRT-LIS 0–100 cm Soil Moisture percentile valid 28 Oct 2021



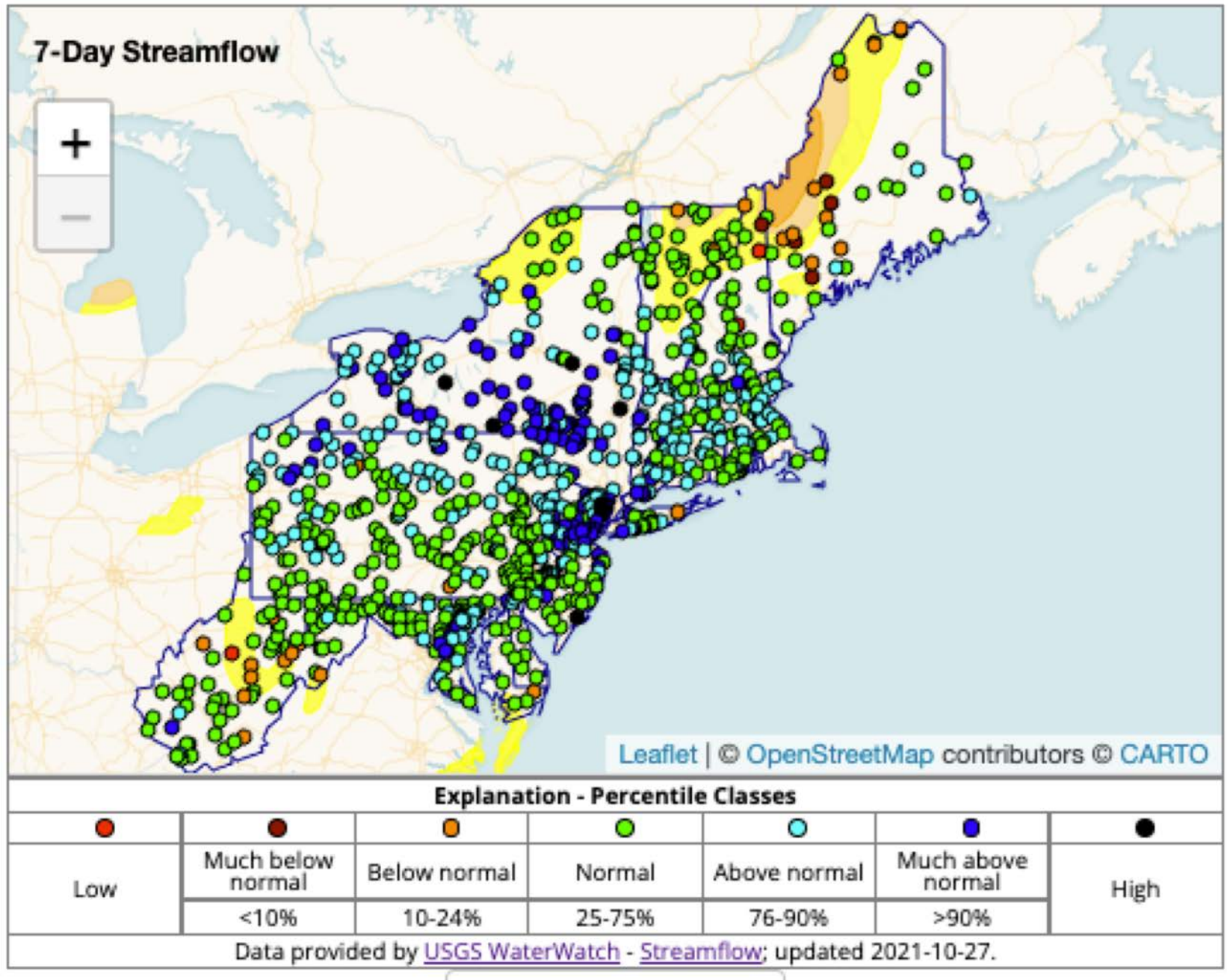
Courtesy of
NASA



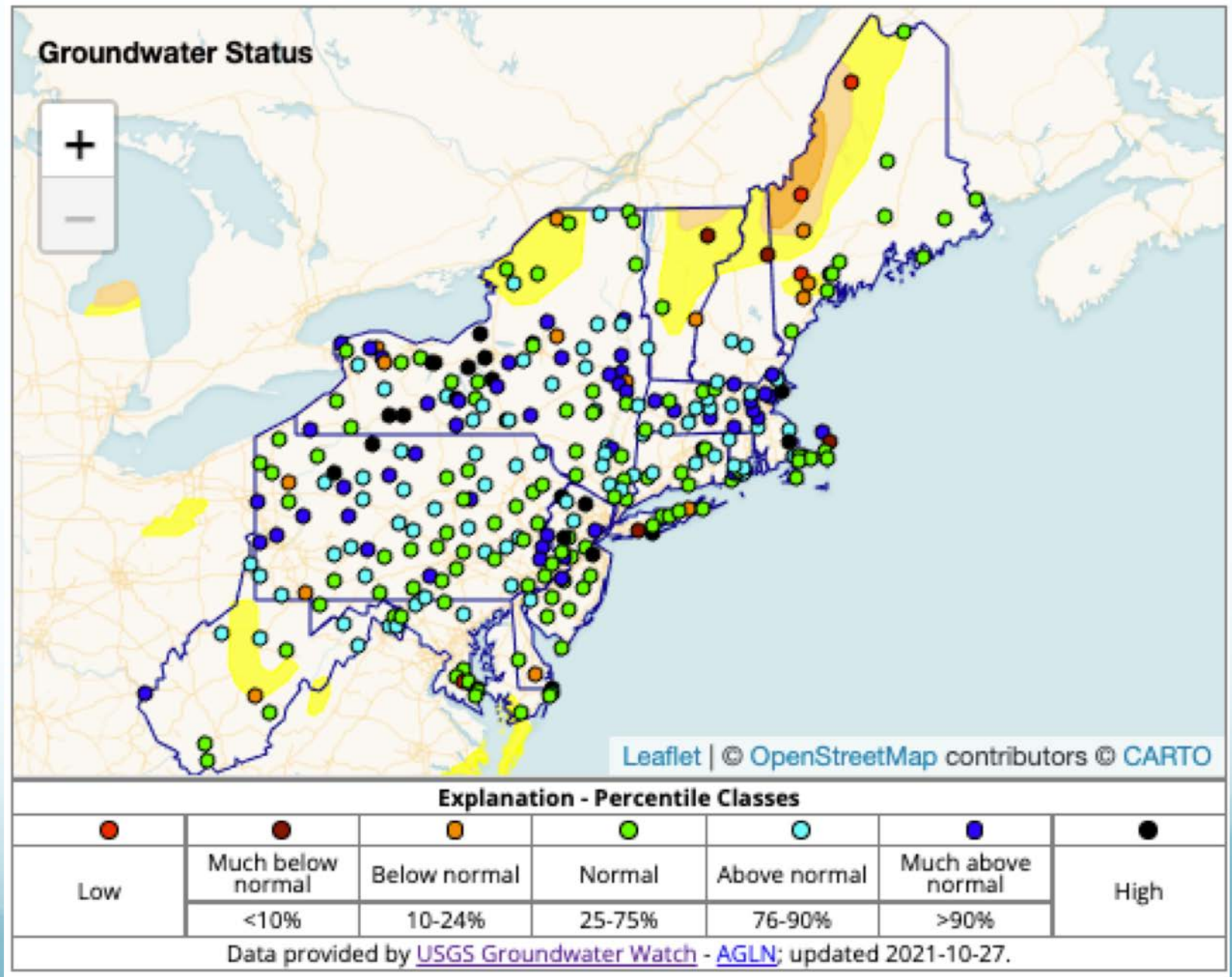
****NOTE****
****Experimental****



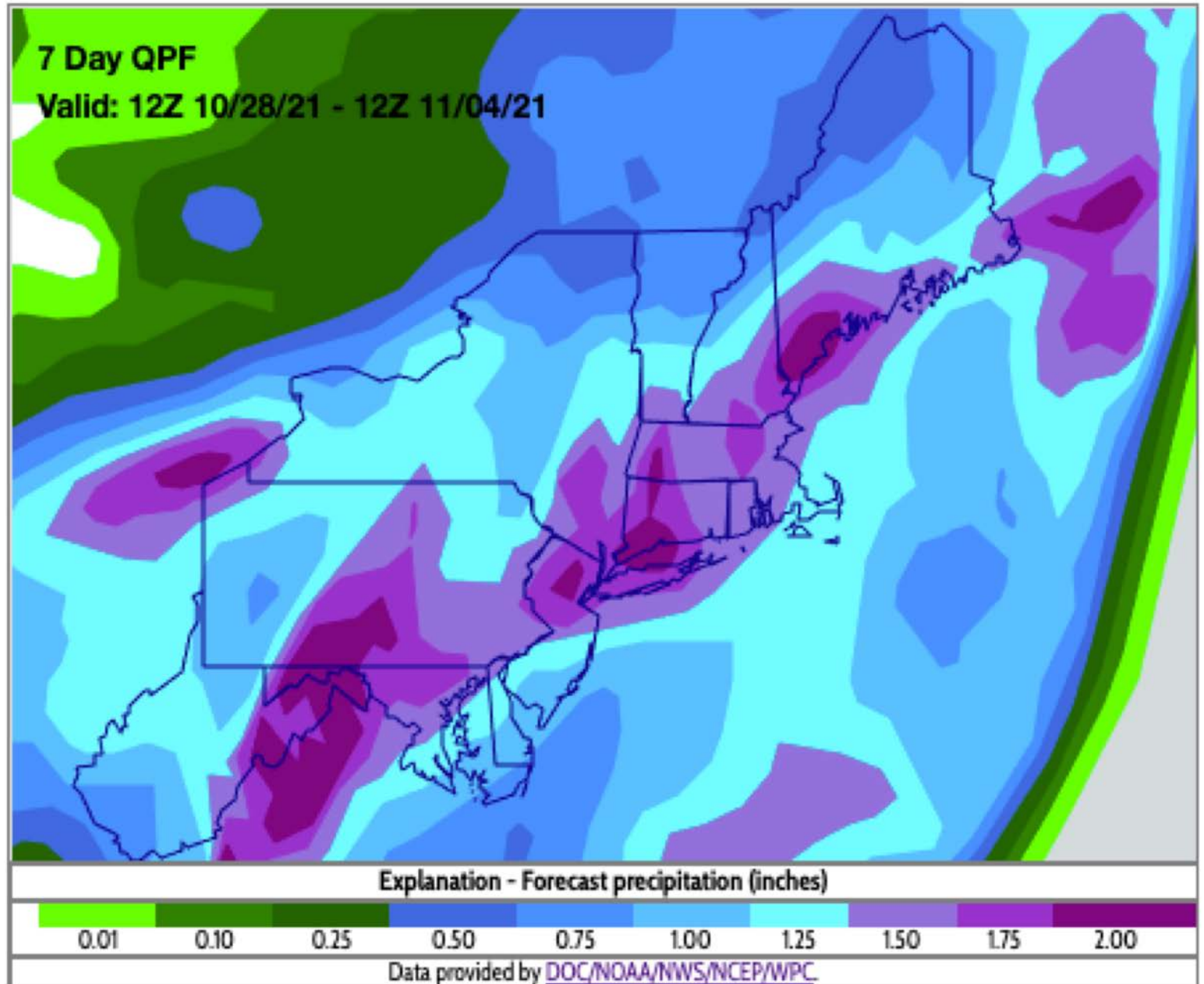
Streamflow



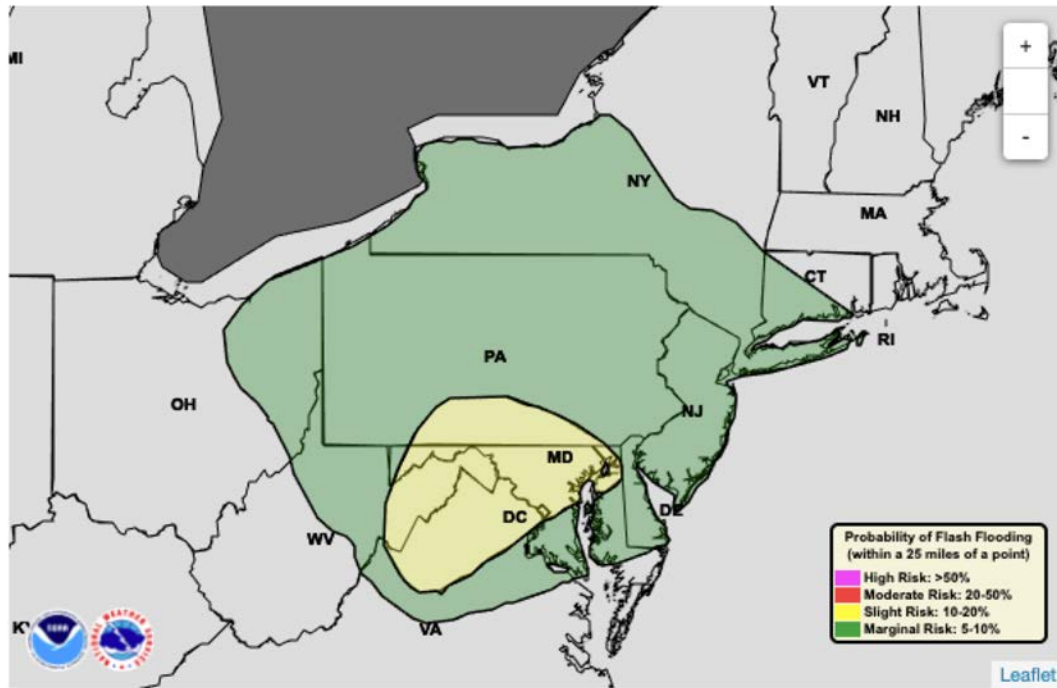
Groundwater



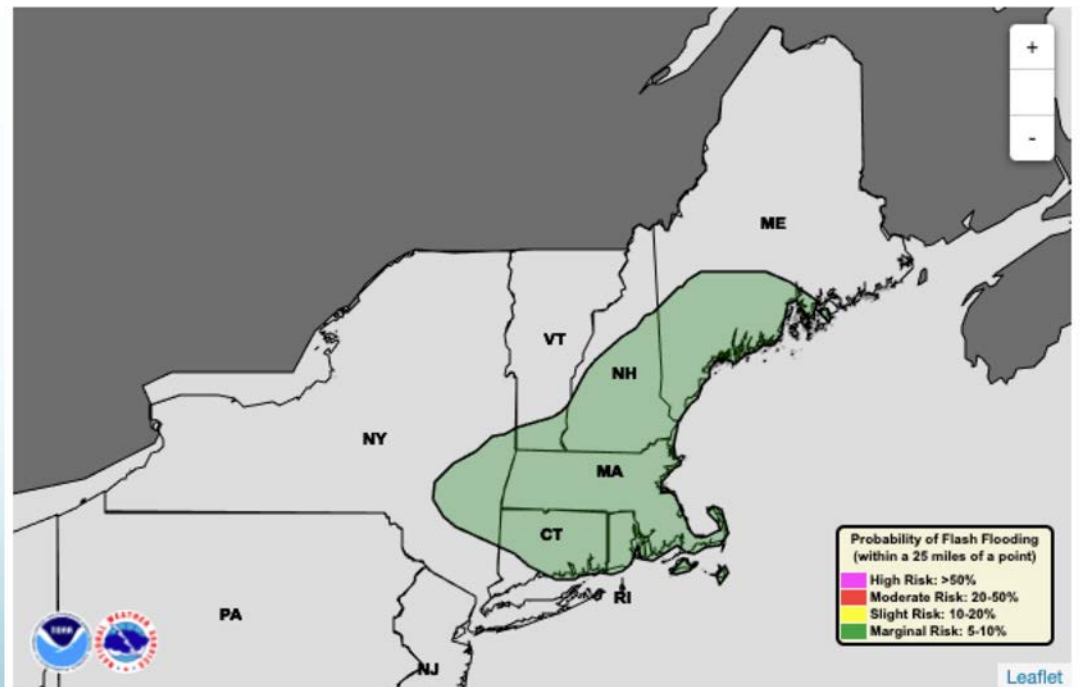
Precipitation Forecast



Precipitation Outlook



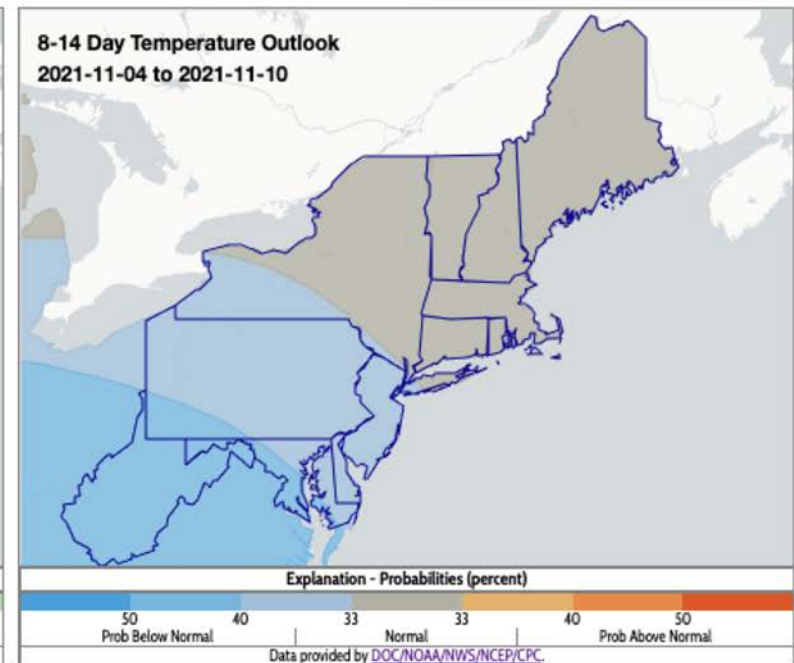
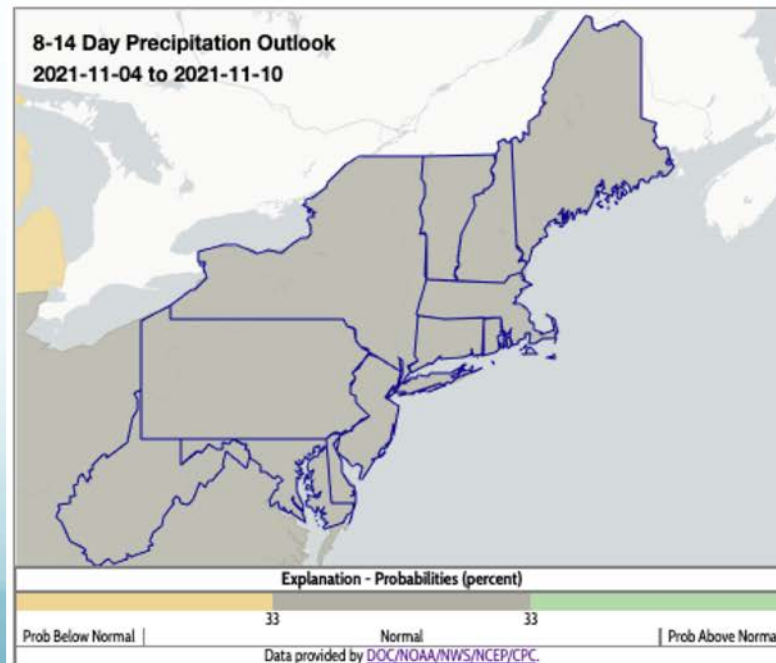
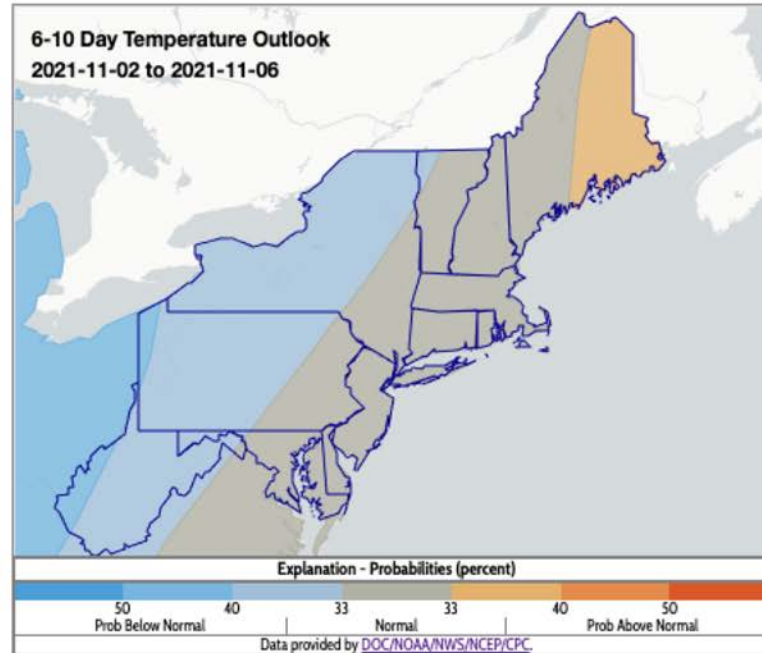
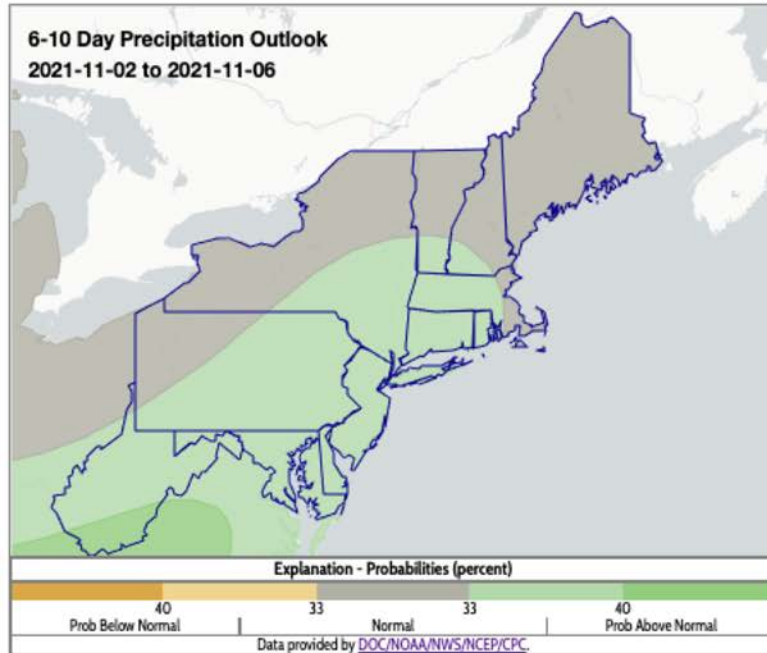
Valid Time: 12Z 10/29/21 - 12Z 10/30/21



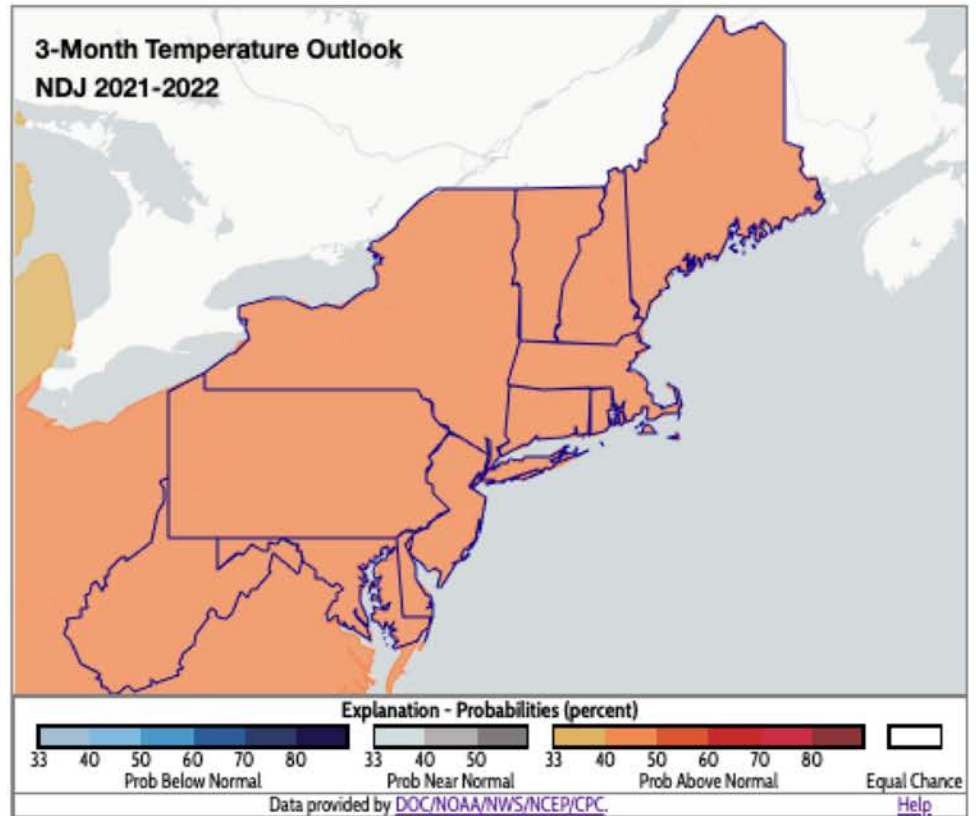
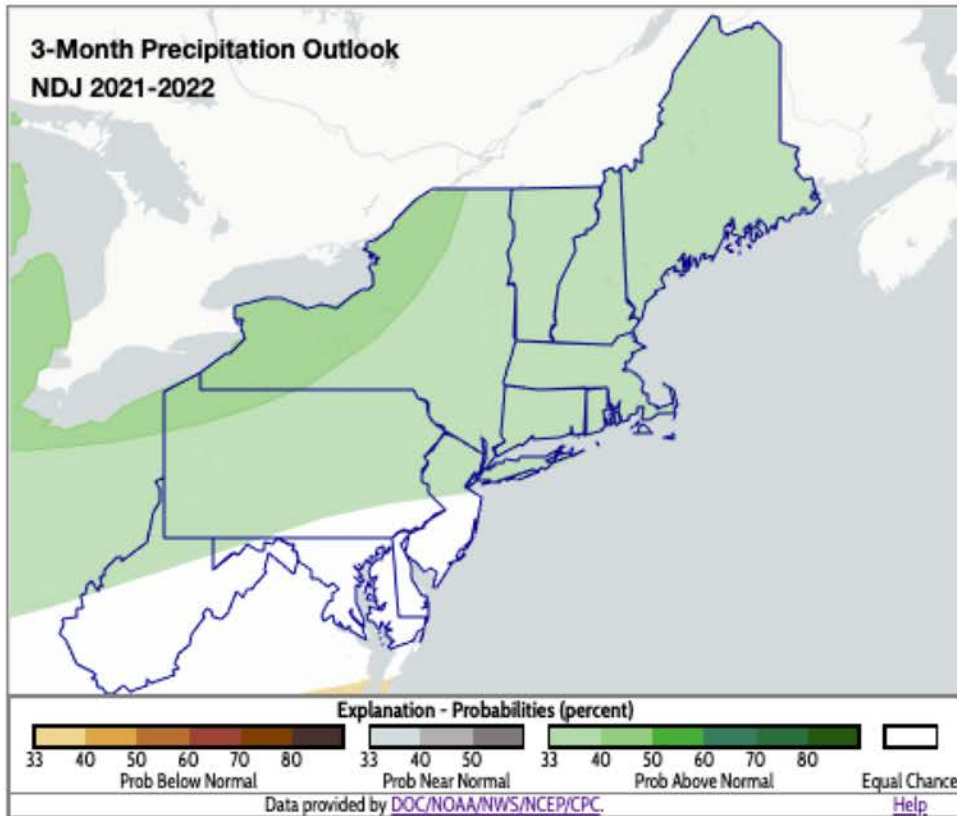
Valid Time: 12Z 10/30/21 - 12Z 10/31/21



Short-term Outlooks



Three-Month Outlook



Contact Information

- nrcc@cornell.edu

Upcoming Webinars

- Tuesday, November 30 at 9:30am
 - ENSO and winter outlooks
- Thursday, December 16 at 9:30am
 - NOAA National Water Model
- Thursday, January 27 at 9:30am
 - Snow survey and climatologies



www.nrcc.cornell.edu