

August Recap & Northeast DEWS Discussion

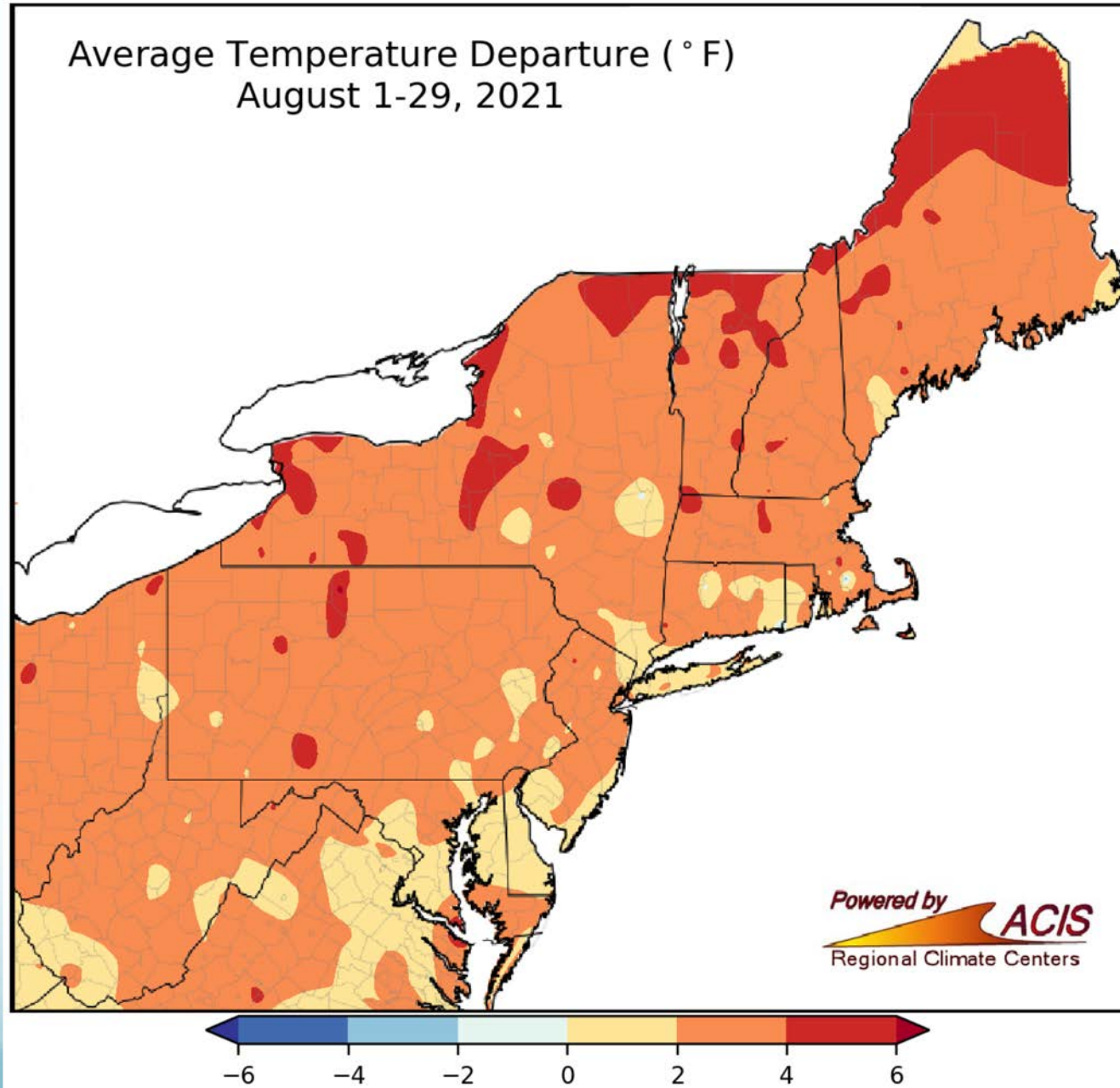
By: Samantha Borisoff, Climatologist
Northeast Regional Climate Center



Northeast Regional
Climate Center



August Temperatures



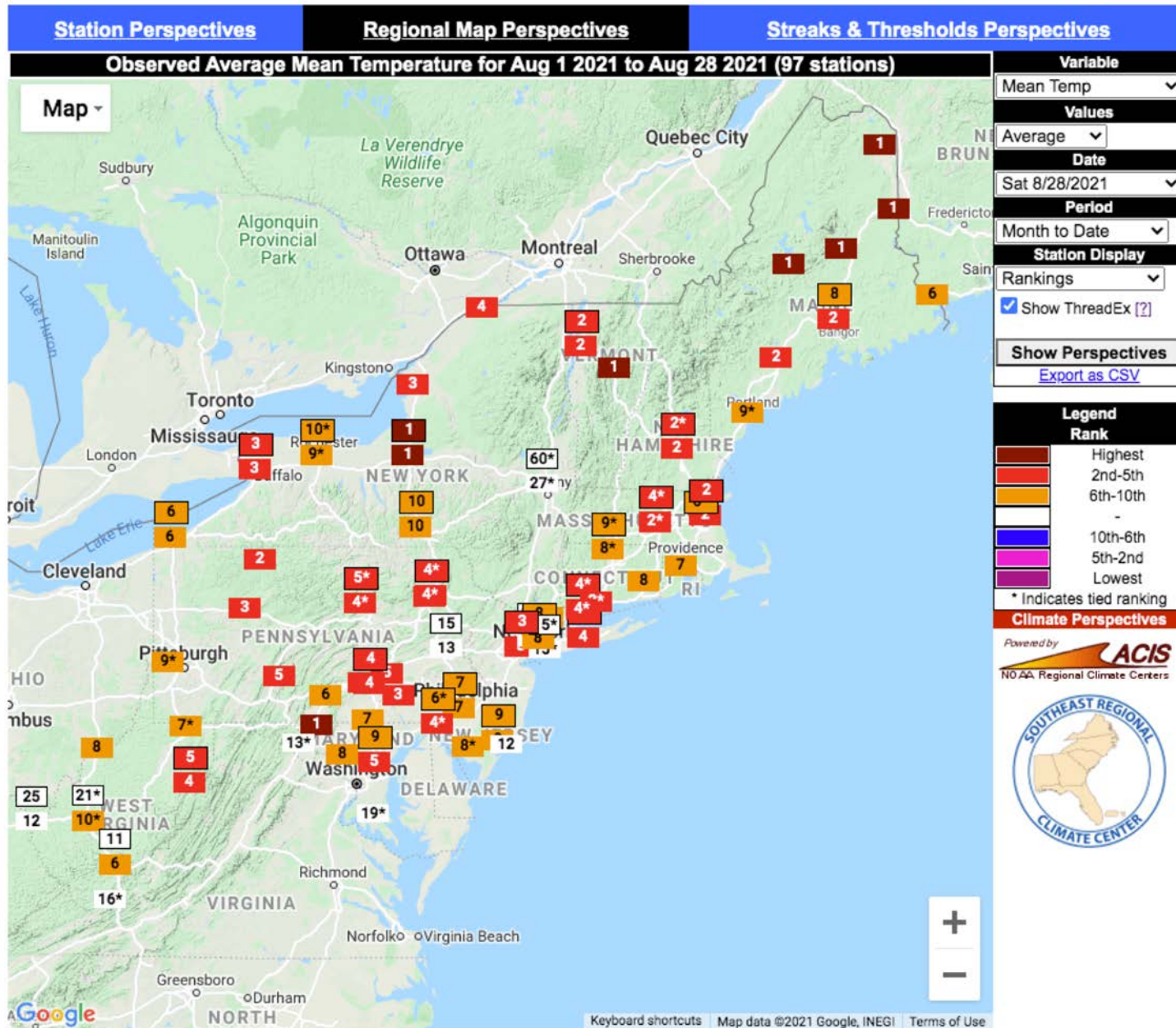
From near normal to 6°F above normal



August Temperatures

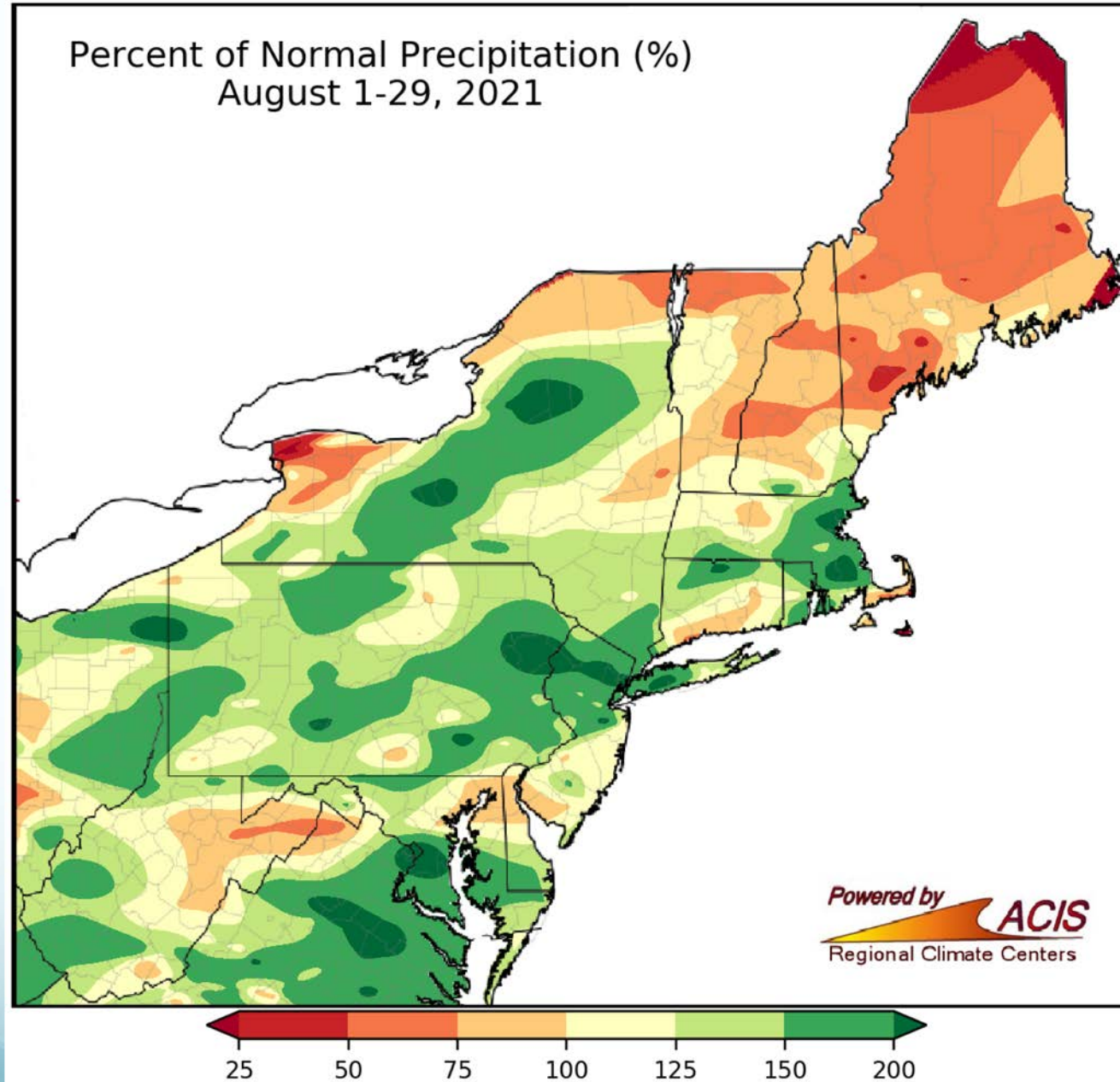
Southeast RCC Climate Perspectives

Expand



Created by and hosted at the [Southeast Regional Climate Center](#).

August Precipitation



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

August Precipitation

Maximum 1-Month Total Precipitation for New York-Central Park Area, NY (ThreadEx)

Click column heading to sort ascending, click again to sort descending.

Rank	Value	Ending Date	Missing Days
1	18.95	2011-08-31	0
2	12.36	1990-08-31	0
3	10.86	1955-08-31	0
4	10.32	2021-08-31	2
5	9.83	1927-08-31	0
6	9.56	1873-08-31	0
7	9.37	1971-08-31	0
8	9.28	1911-08-31	0
9	9.08	1942-08-31	0
10	8.97	1875-08-31	0

Period of record: 1869-01-01 to 2021-08-29

Site	Aug 1-29, 2021 Precip (in.)	Rank for August* (wettest**)
Beckley, WV	6.53	10
Binghamton, NY	6.23	6
Boston, MA	6.98	10
Central Park, NY	10.32	4
Hartford, CT	8.80	4
Islip, NY	6.63	8
Kennedy Airport, NY	7.38	6
LaGuardia Airport, NY	6.91	9
Newark, NJ	7.19	10
Syracuse, NY	6.57	6
Washington National, DC	9.07	9

*Ranks likely will change with full August data

**only top 10 ranks listed

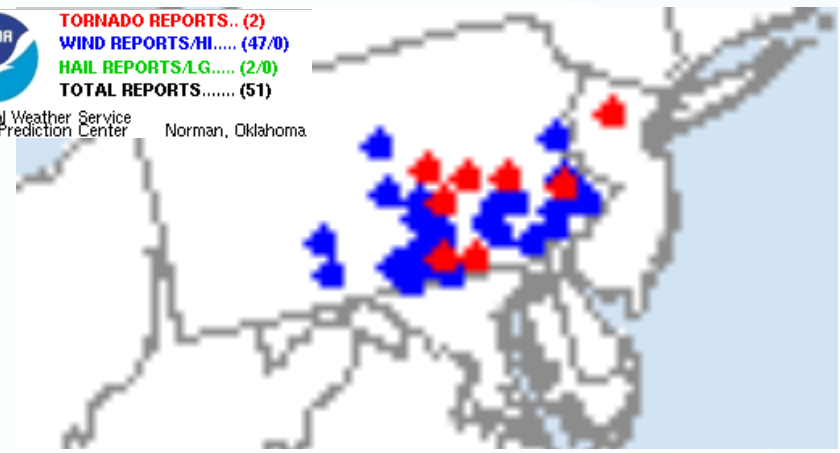


TS Fred Remnants



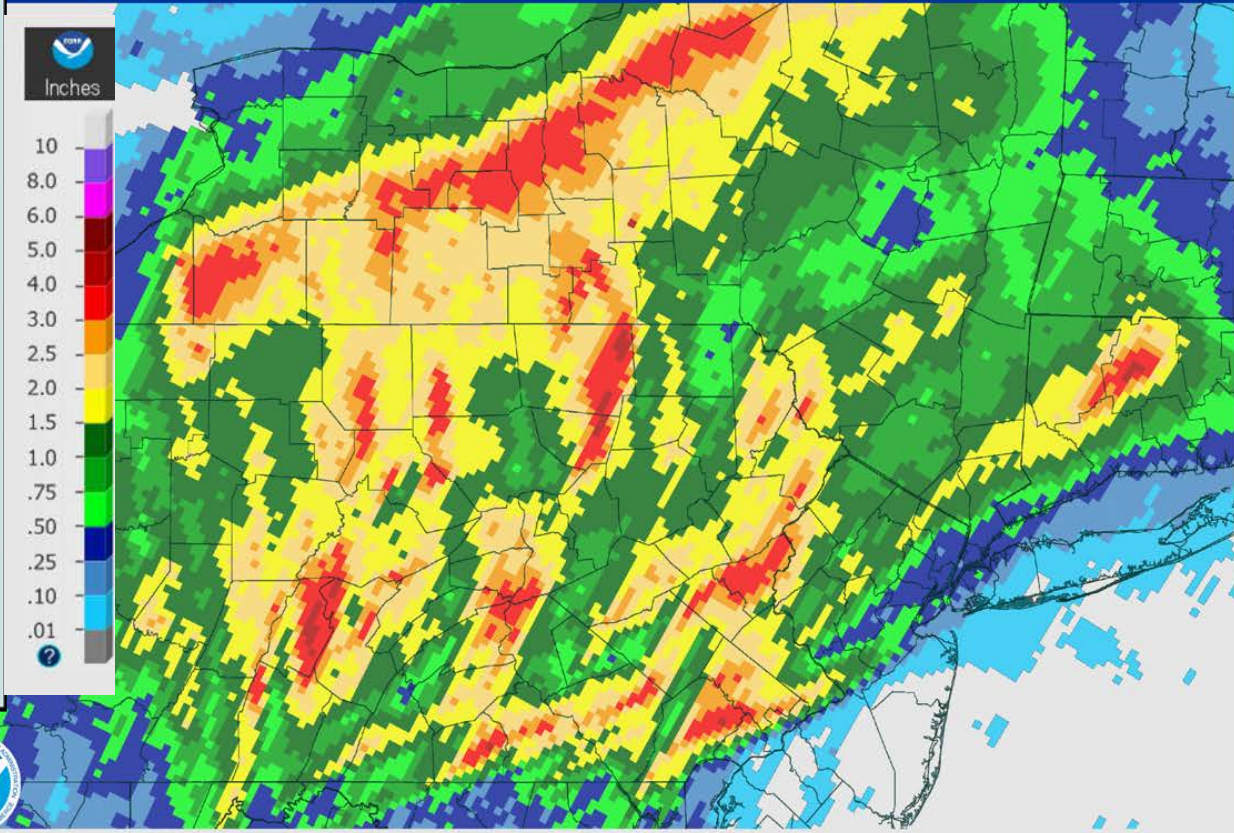
TORNADO REPORTS.. (2)
WIND REPORTS/HI..... (47/0)
HAIL REPORTS/LG..... (2/0)
TOTAL REPORTS..... (51)

National Weather Service
 Storm Prediction Center
 Norman, Oklahoma



August 19, 2021 1-Day Observed Precipitation

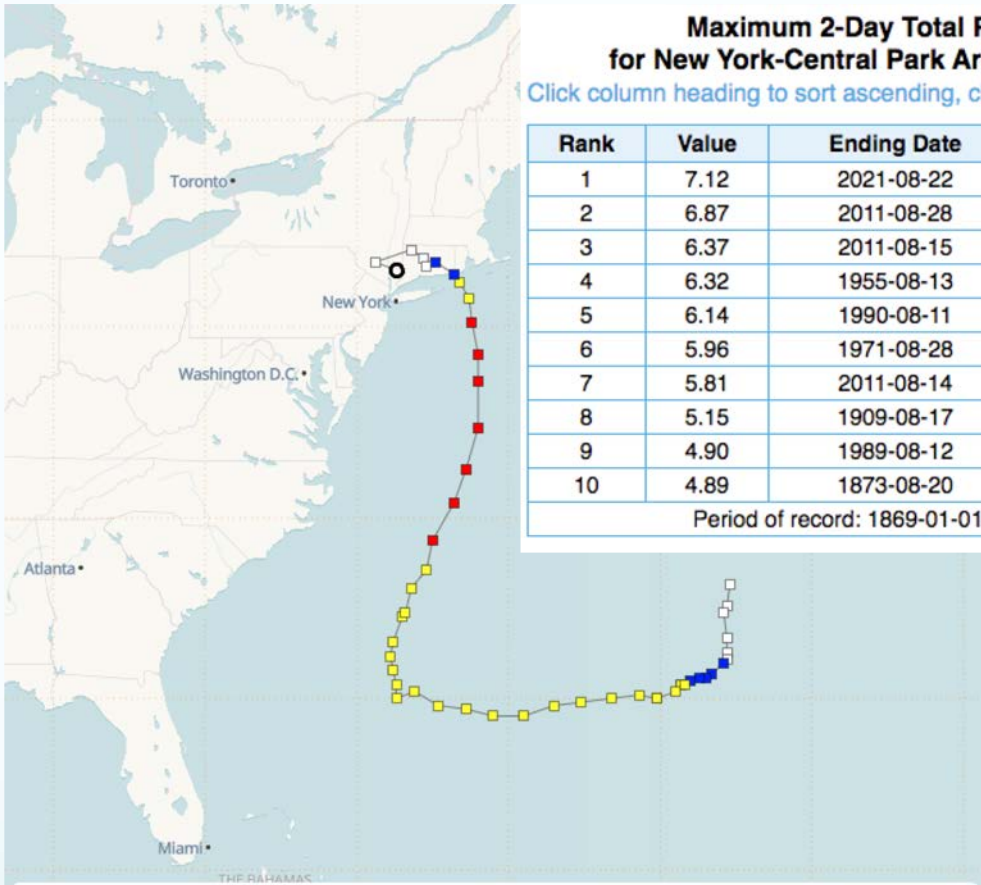
Created on: August 30, 2021 - 17:00 UTC
 Valid on: August 19, 2021 12:00 UTC



Courtesy of
NWS BGM



Hurricane Henri



Track of Hurricane Henri

Center Location: 41.4 N 73.7 W Maximum Sustained Winds: 30 mph Movement: 6 mph E
 Sustained Wind Speed: ■ tropical storm \geq 34kt/39mph ■ strong tropical storm \geq 50kt/58mph ■ hurricane \geq 64kt/74mph

Courtesy of
NWS BGM



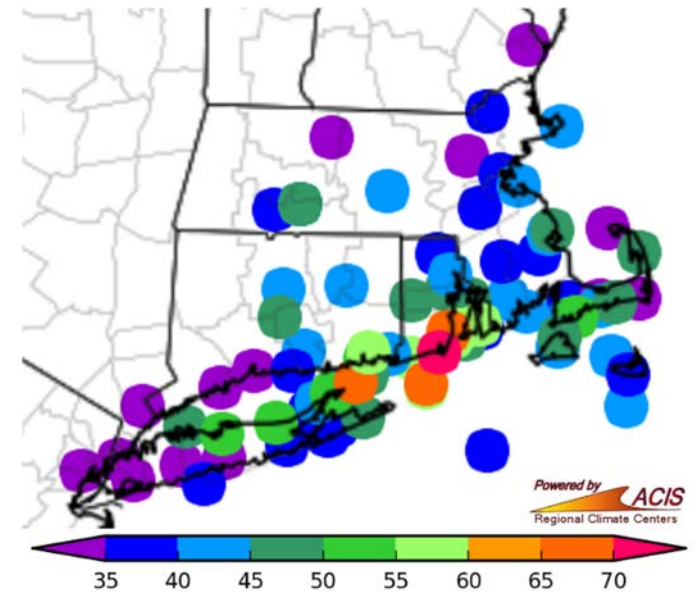
Maximum 2-Day Total Precipitation for New York-Central Park Area, NY (ThreadEx)

Click column heading to sort ascending, click again to sort descending

Rank	Value	Ending Date	Missing Days
1	7.12	2021-08-22	0
2	6.87	2011-08-28	0
3	6.37	2011-08-15	0
4	6.32	1955-08-13	0
5	6.14	1990-08-11	0
6	5.96	1971-08-28	0
7	5.81	2011-08-14	0
8	5.15	1909-08-17	0
9	4.90	1989-08-12	0
10	4.89	1873-08-20	0

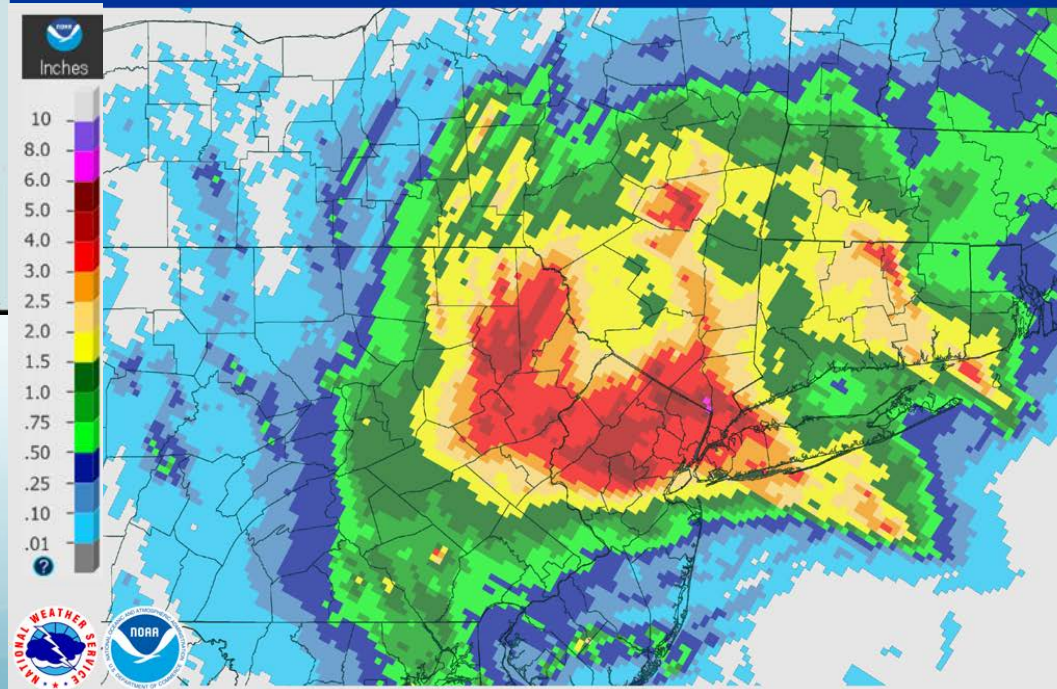
Period of record: 1869-01-01 to 2021-08-22

Peak Wind Speed (mph) August 22, 2021



August 23, 2021 1-Day Observed Precipitation

Created on: August 24, 2021 - 17:32 UTC
 Valid on: August 23, 2021 12:00 UTC

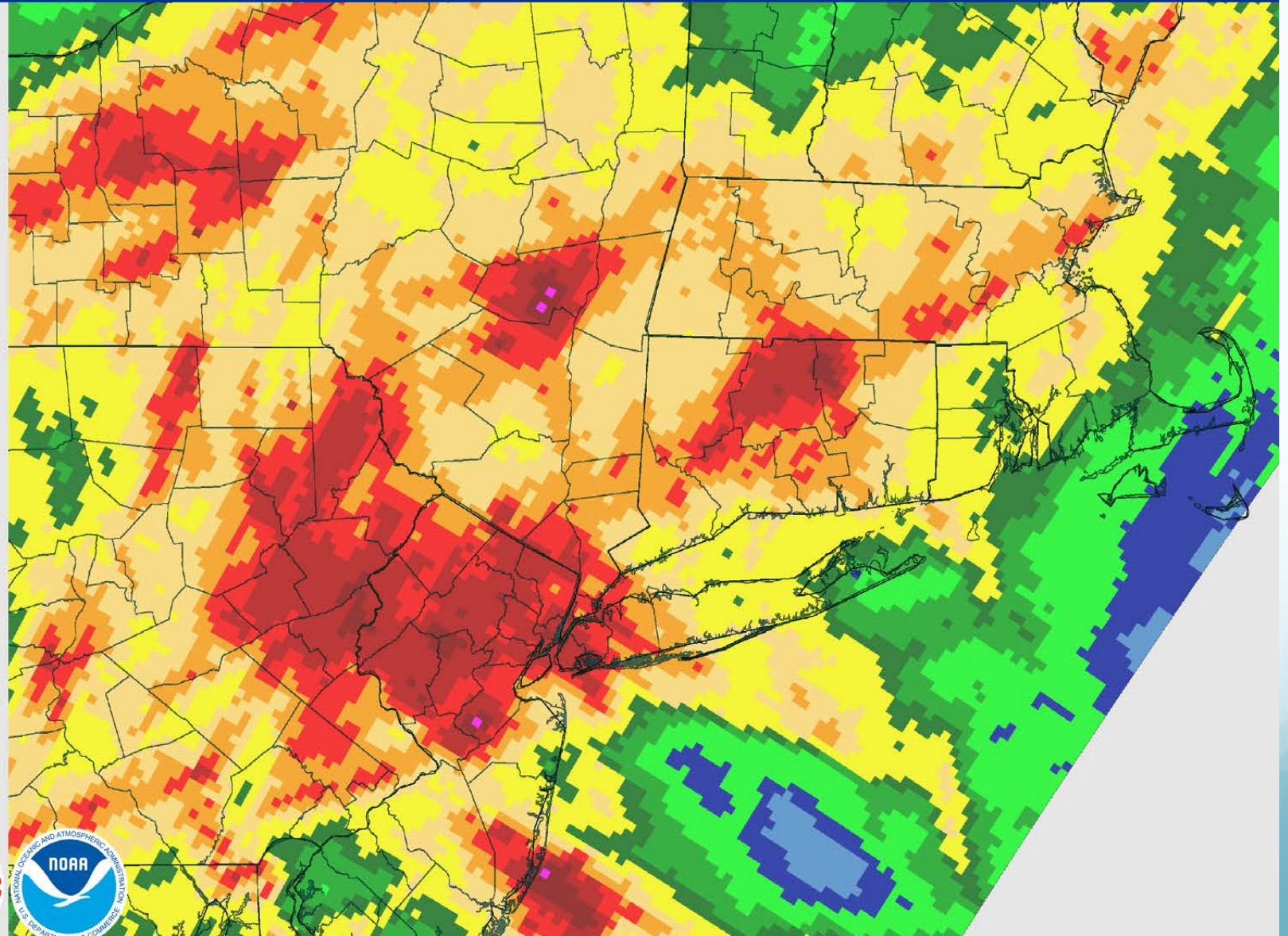
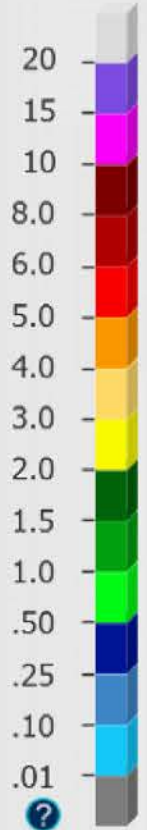


Fred & Henri Rainfall

August 24, 2021 7-Day Observed Precipitation

Created on: August 24, 2021 - 15:24 UTC

Valid on: August 24, 2021 12:00 UTC



Drought Monitor

U.S. Drought Monitor Northeast Climate Region

July 27, 2021
(Released Thursday, Jul. 29, 2021)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	77.06	14.26	7.31	1.38	0.00	0.00
Last Week 07-20-2021	77.09	11.77	9.57	1.58	0.00	0.00
3 Months Ago 04-27-2021	45.90	40.56	13.54	0.00	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 07-29-2020	28.93	42.43	26.93	1.72	0.00	0.00

Intensity:

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

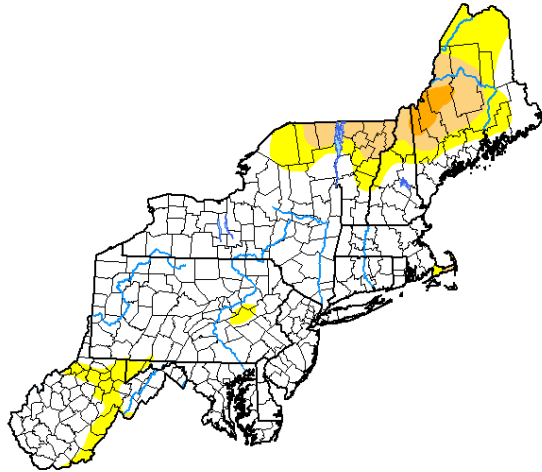
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

Brad Rippey
U.S. Department of Agriculture



droughtmonitor.unl.edu



U.S. Drought Monitor Northeast Climate Region

August 24, 2021
(Released Thursday, Aug. 26, 2021)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	77.36	12.05	9.05	1.54	0.00	0.00
Last Week 08-17-2021	69.78	19.09	9.63	1.50	0.00	0.00
3 Months Ago 05-25-2021	52.41	44.75	2.83	0.00	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 08-25-2020	39.82	23.01	27.46	9.71	0.00	0.00

Intensity:

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

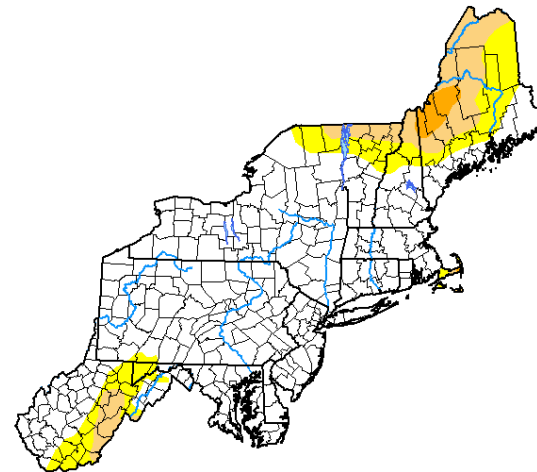
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Author:

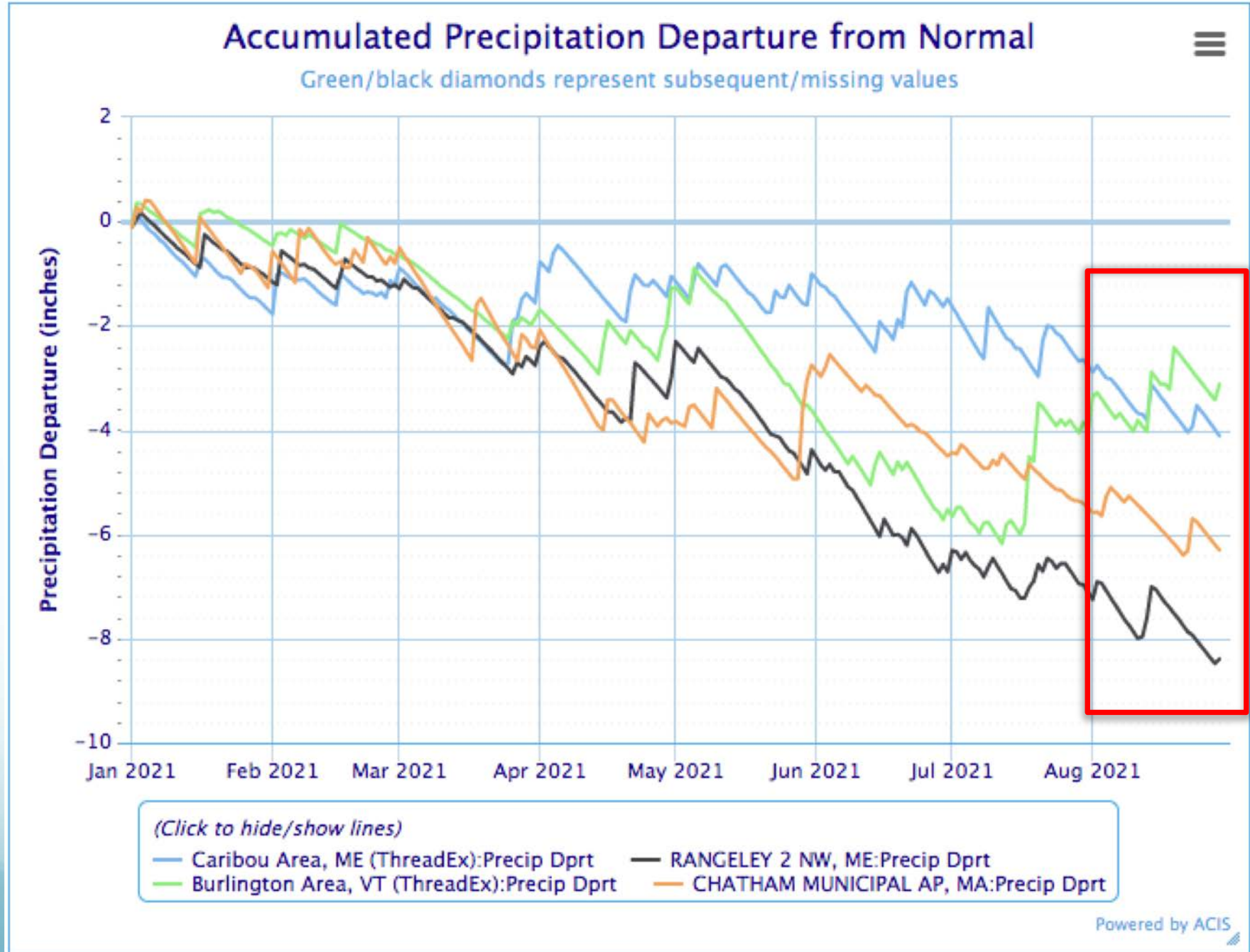
Curtis Riganti
National Drought Mitigation Center



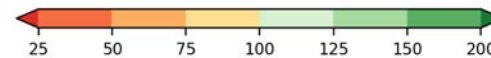
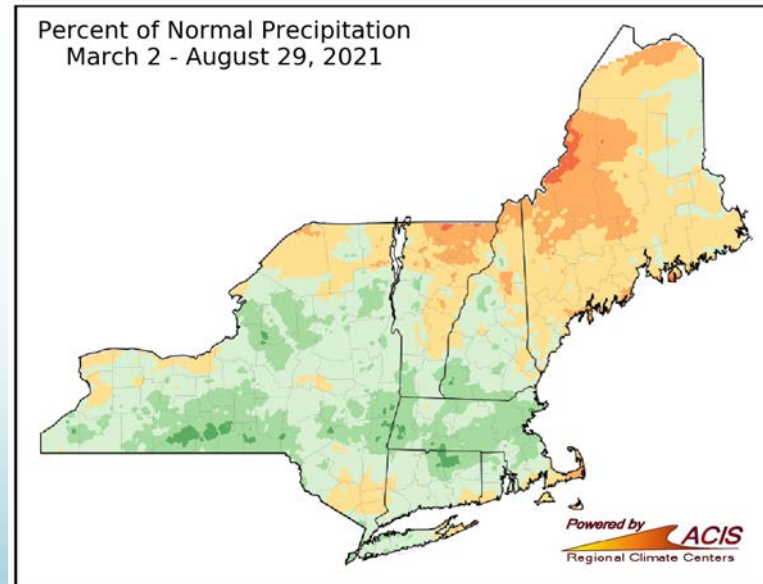
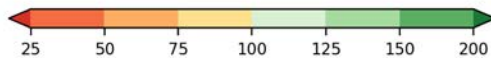
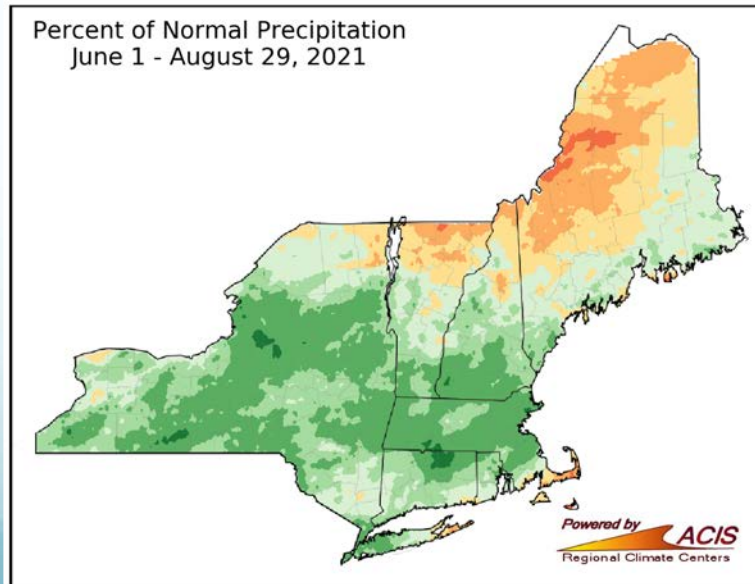
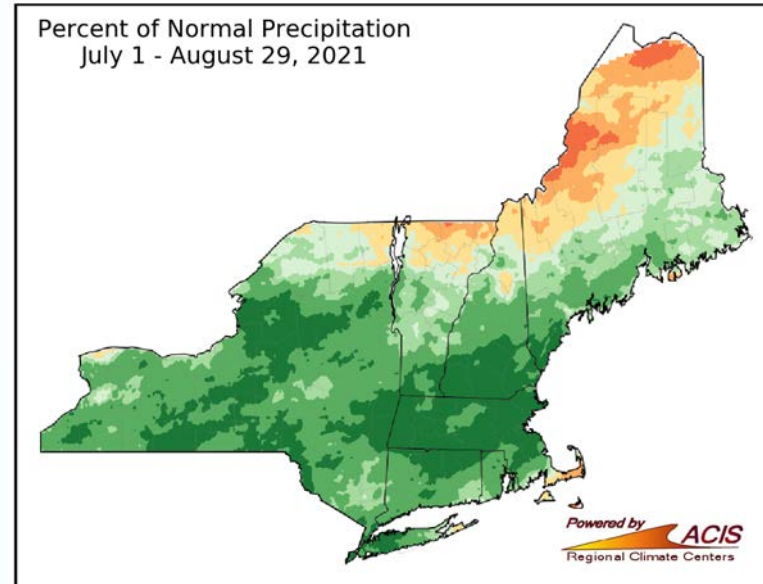
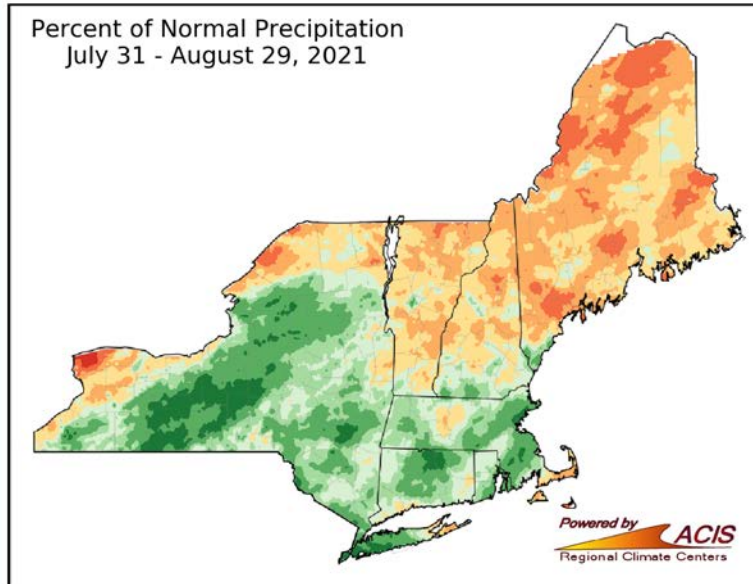
droughtmonitor.unl.edu



Precipitation

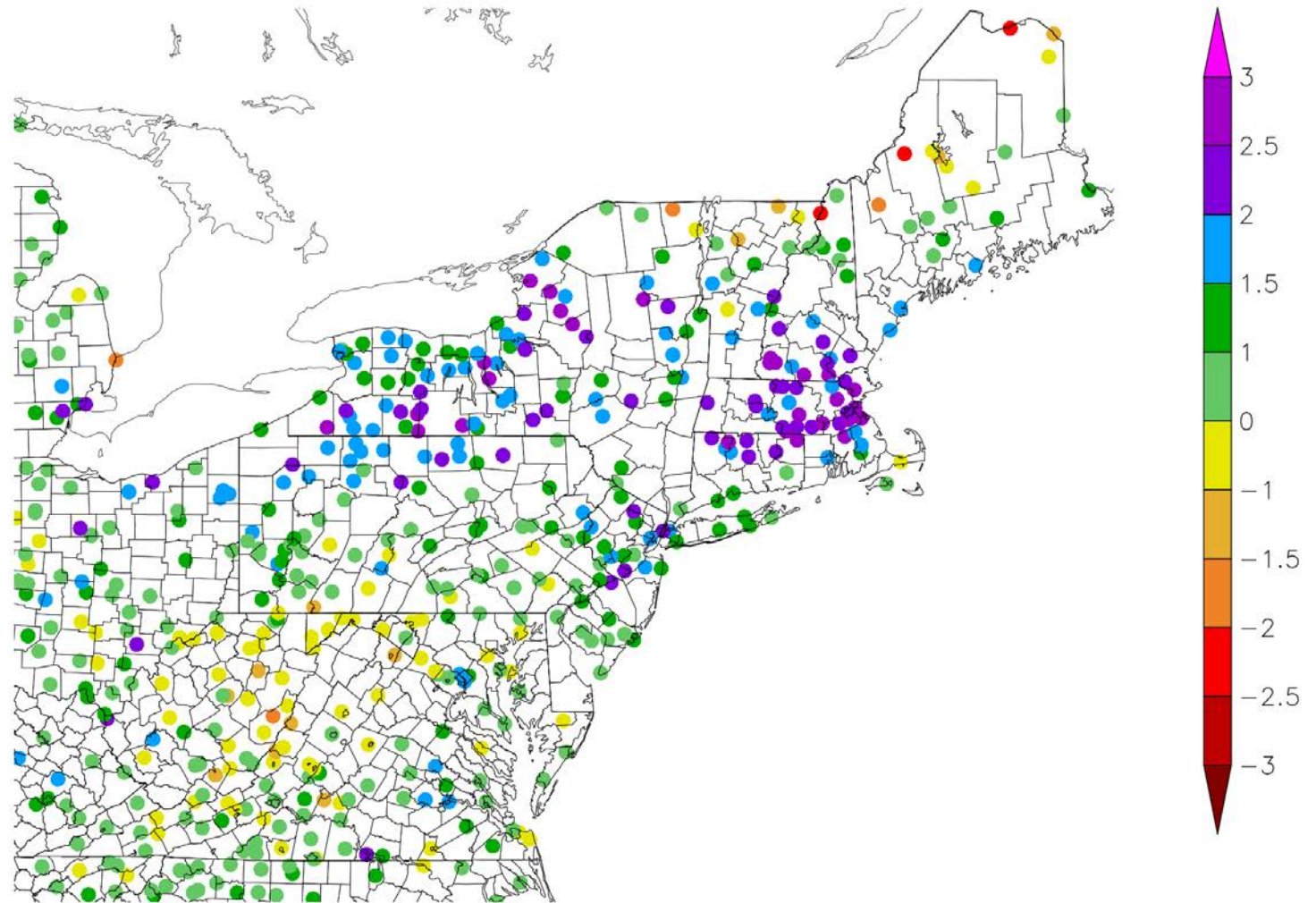


Precipitation



Standardized Precip Index

60 Day SPI
6/30/2021 – 8/28/2021

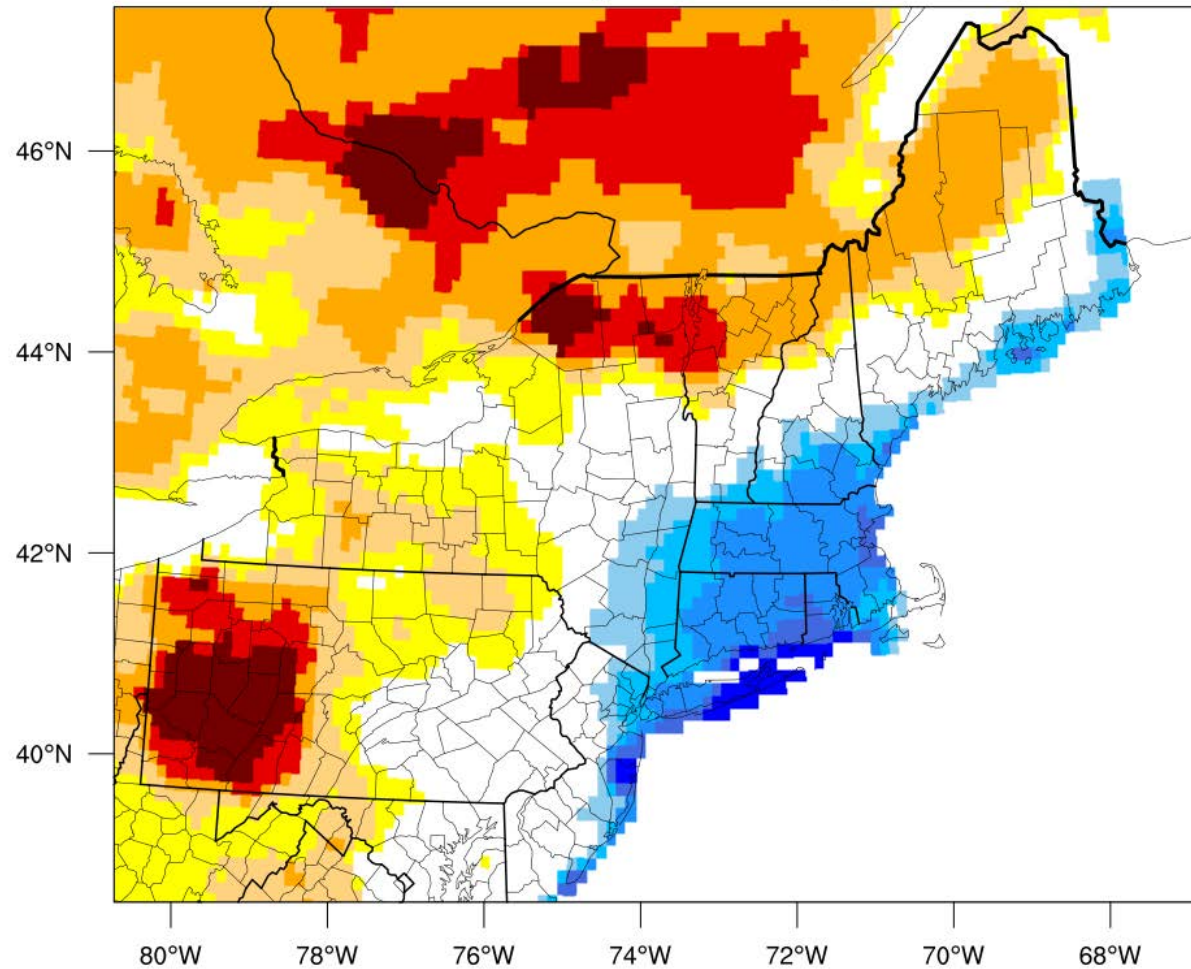


Generated 8/29/2021 at HPRCC using provisional data.

NOAA Regional Climate Centers

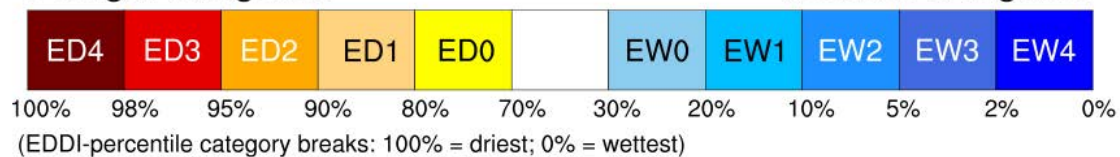
Evap. Demand Drought Index

3-week EDDI categories for August 24, 2021



Drought categories

Wetness categories

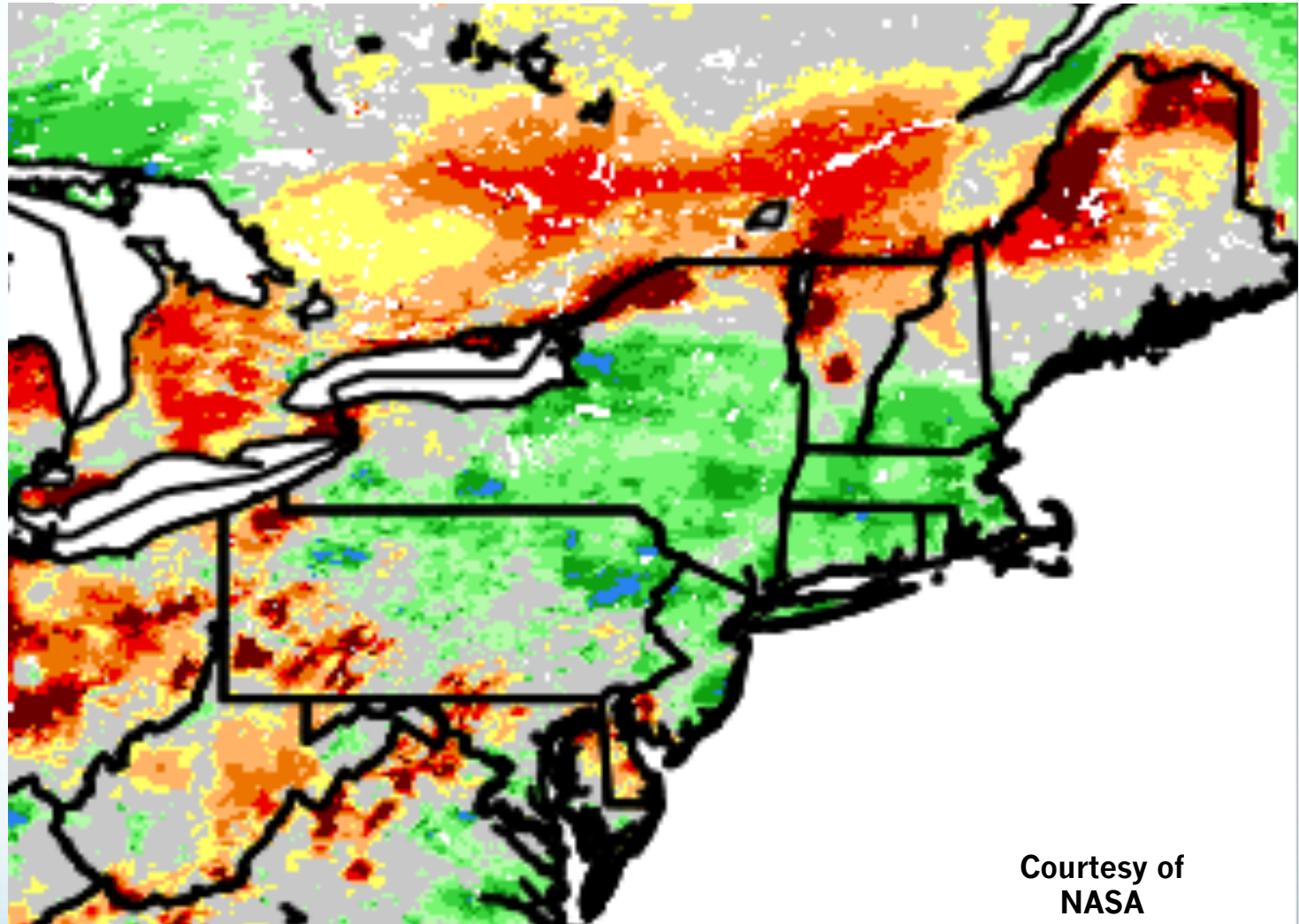


Generated by NOAA/ESRL/Physical Sciences Laboratory



Soil Moisture

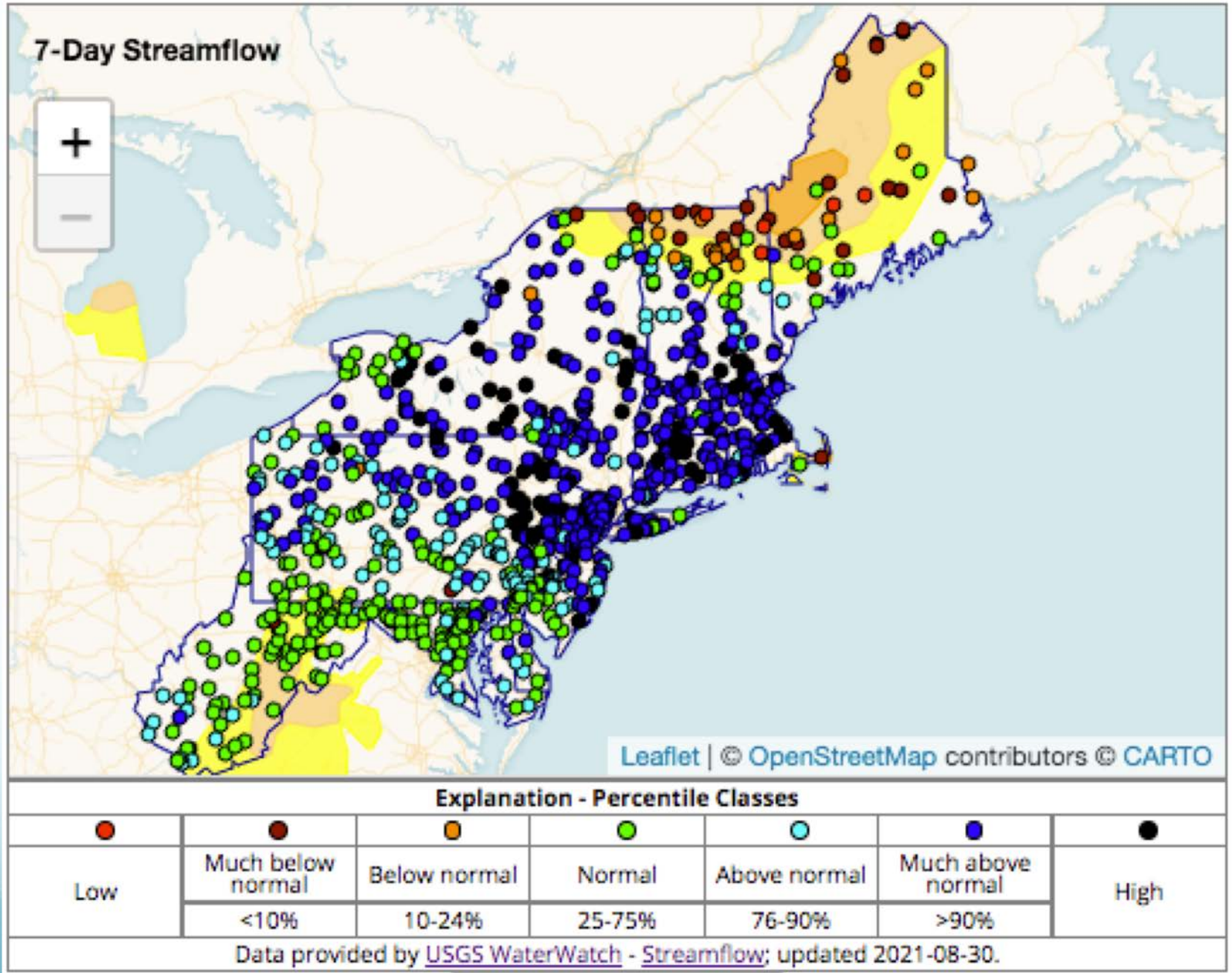
SPoRT-LIS 0-100 cm Soil Moisture percentile valid 30 Aug 2021



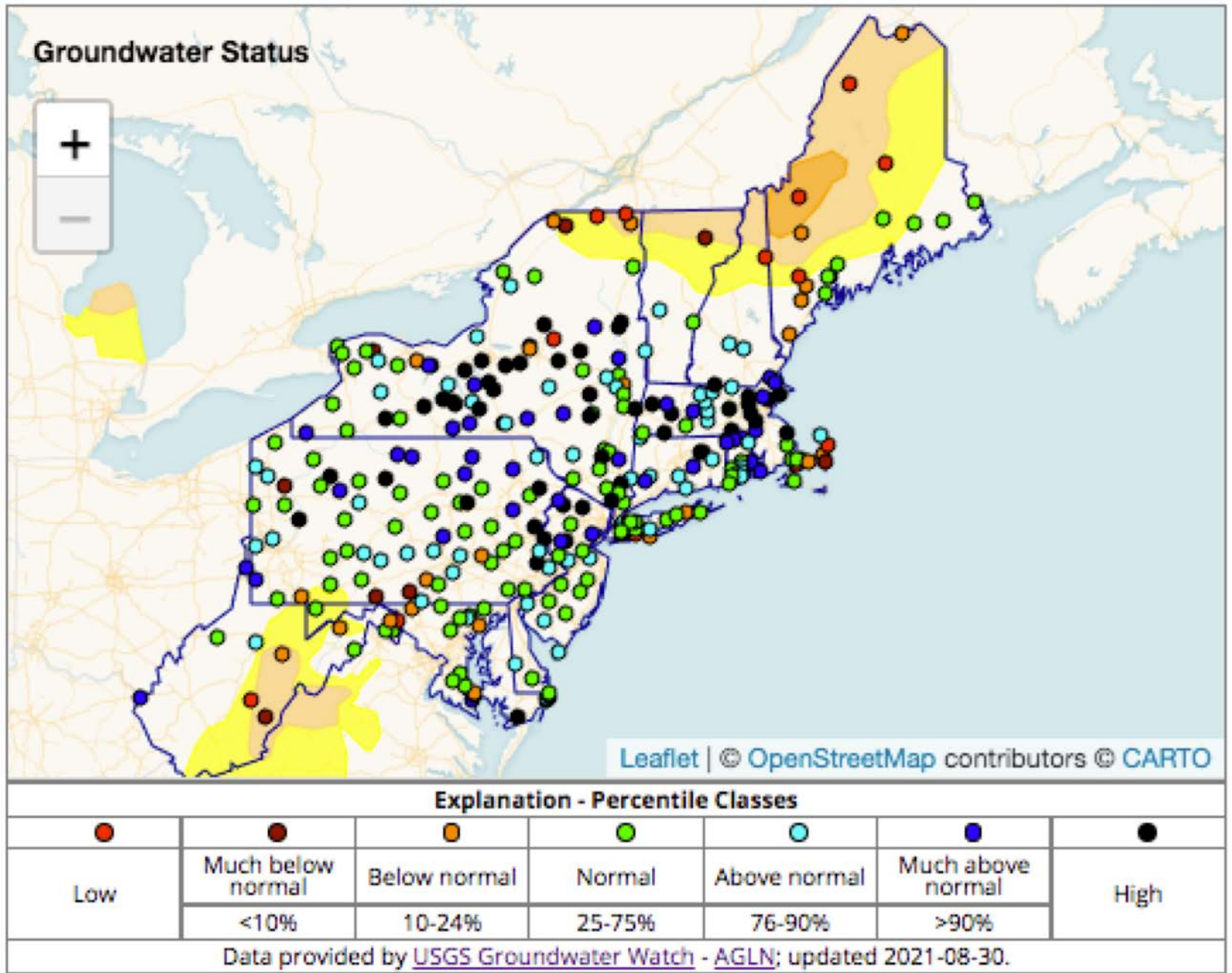
****NOTE****
****Experimental****



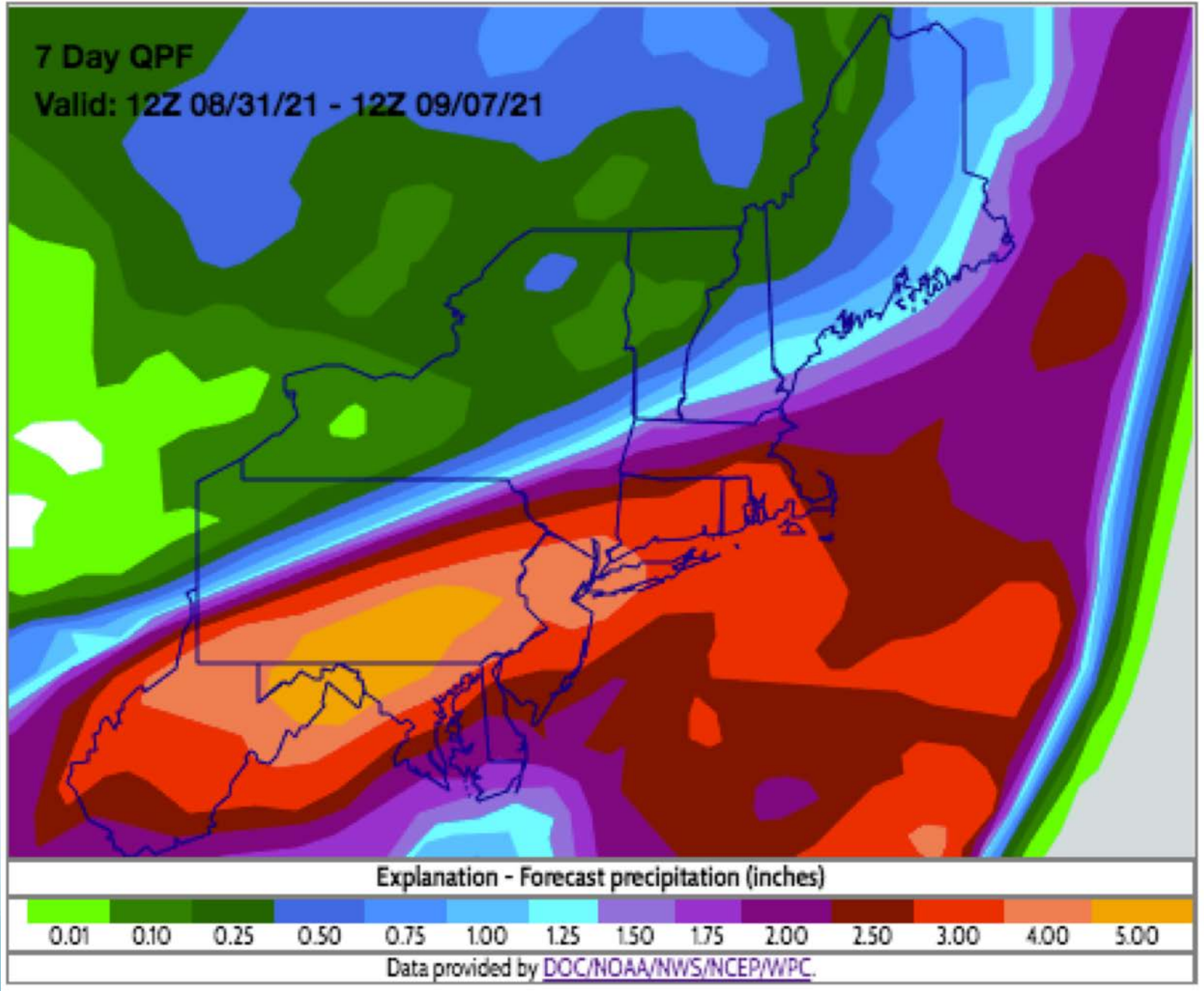
Streamflow



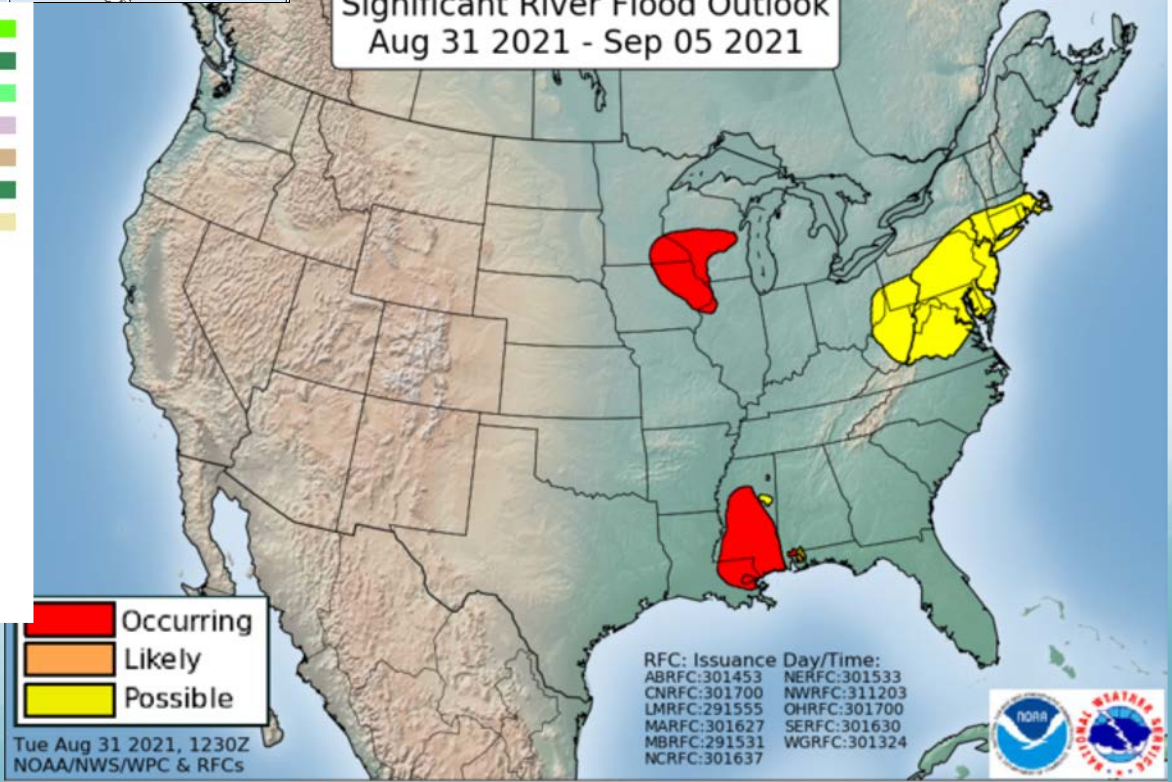
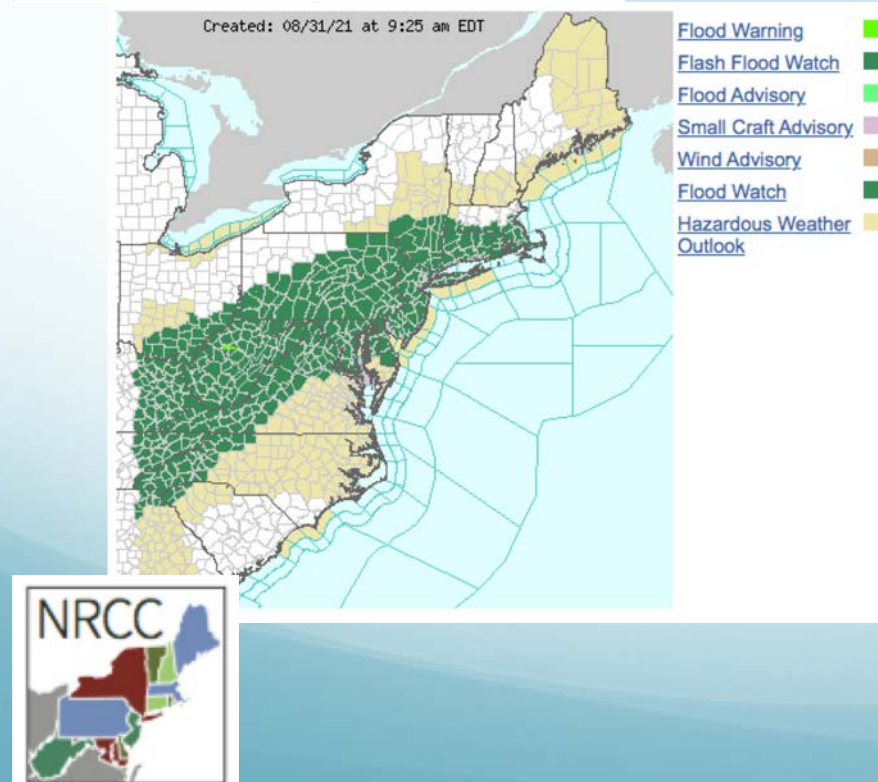
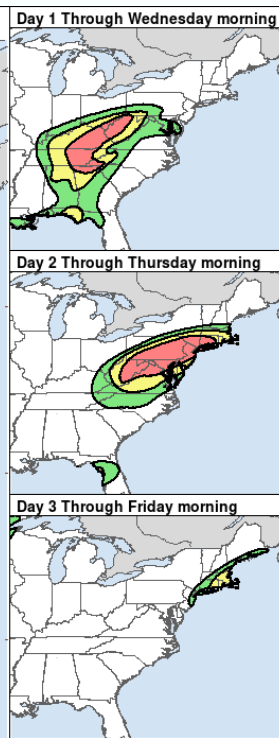
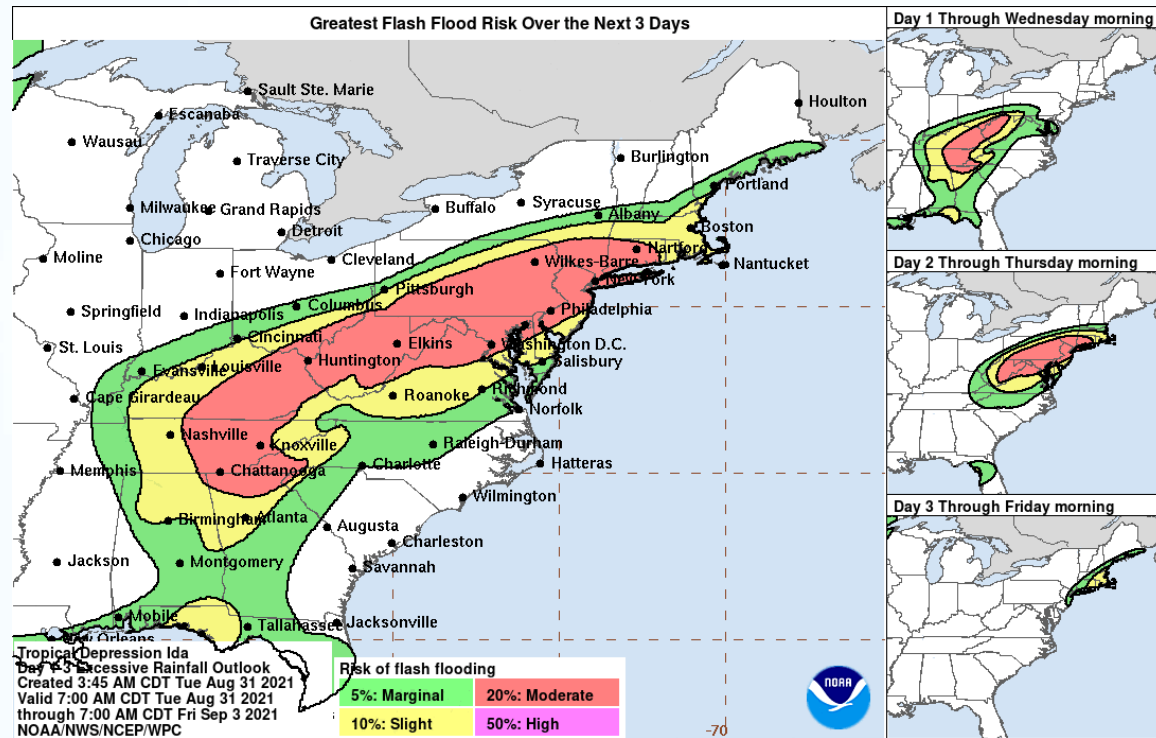
Groundwater



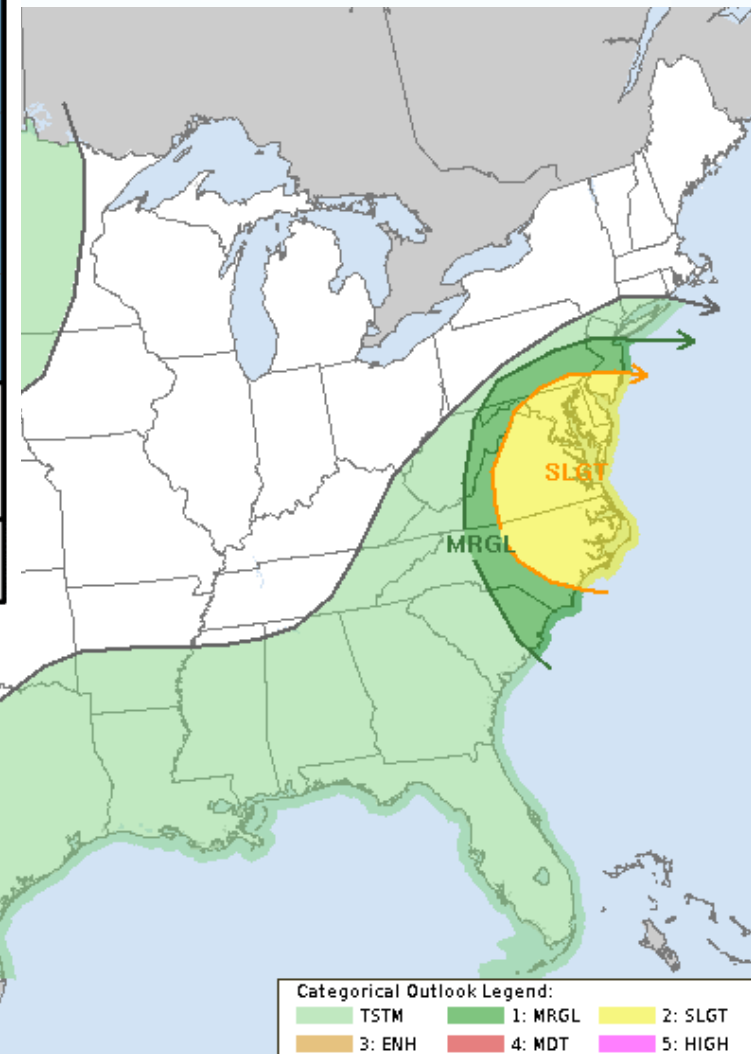
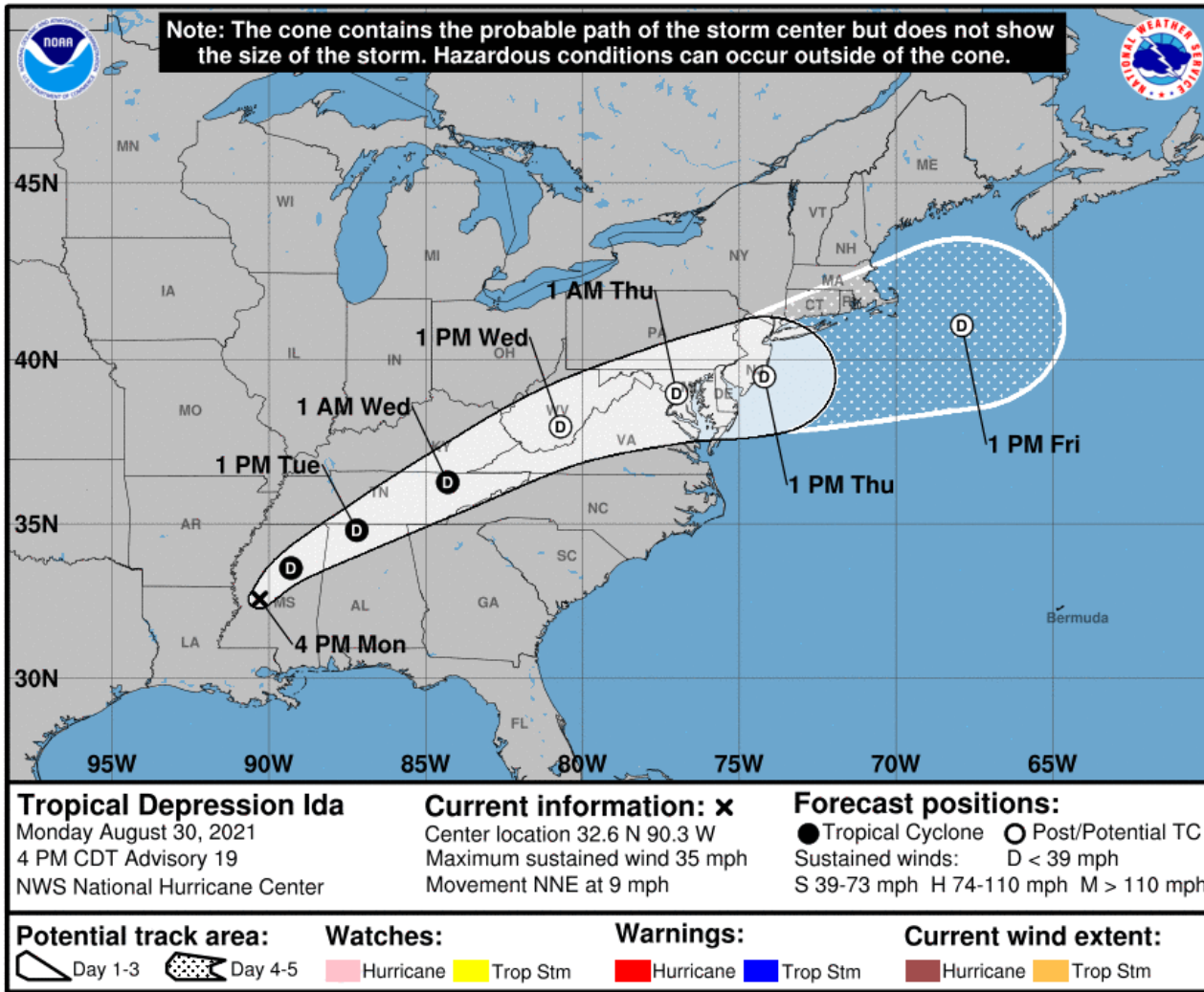
Precipitation Forecast



Flood Potential

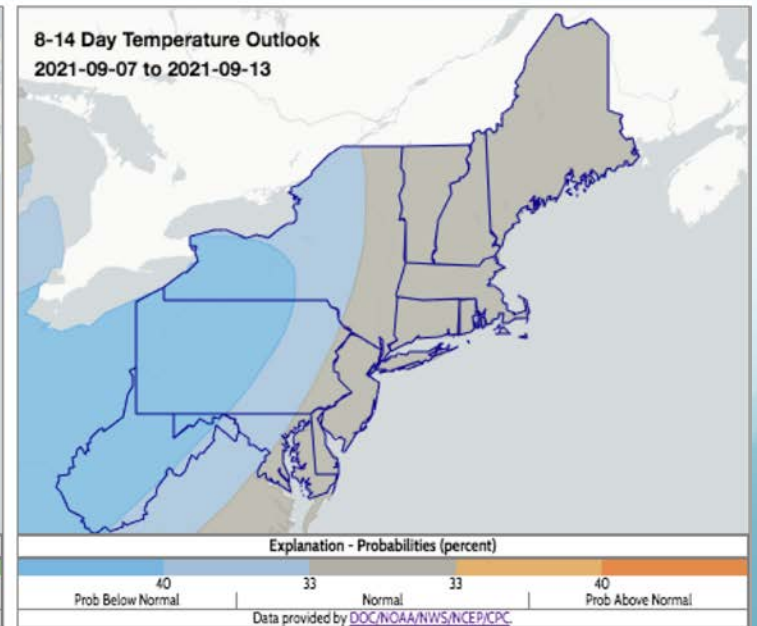
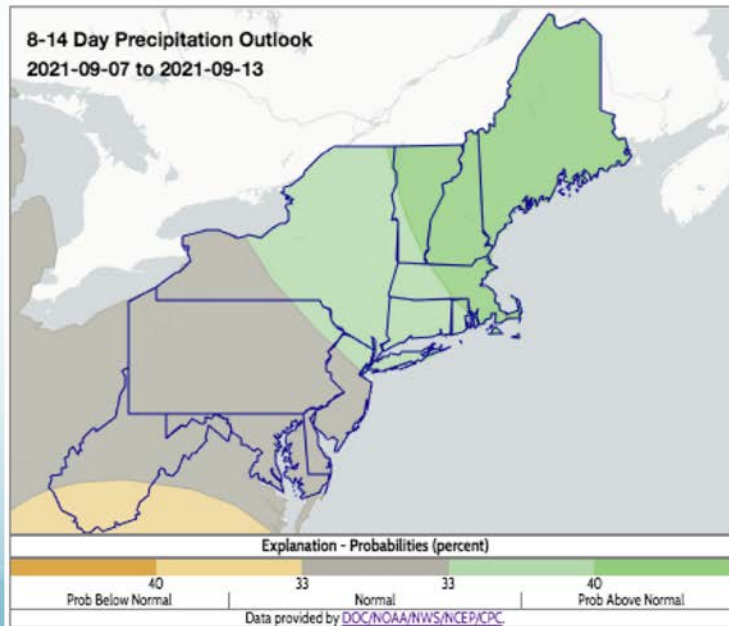
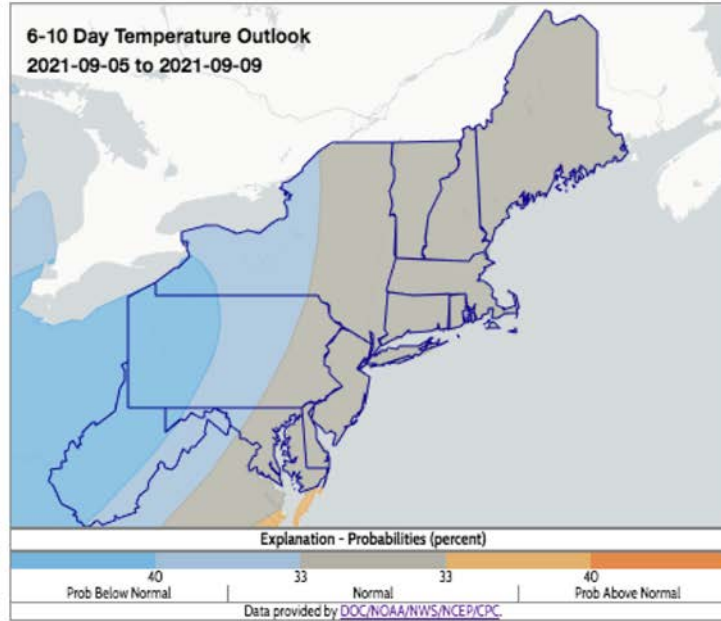
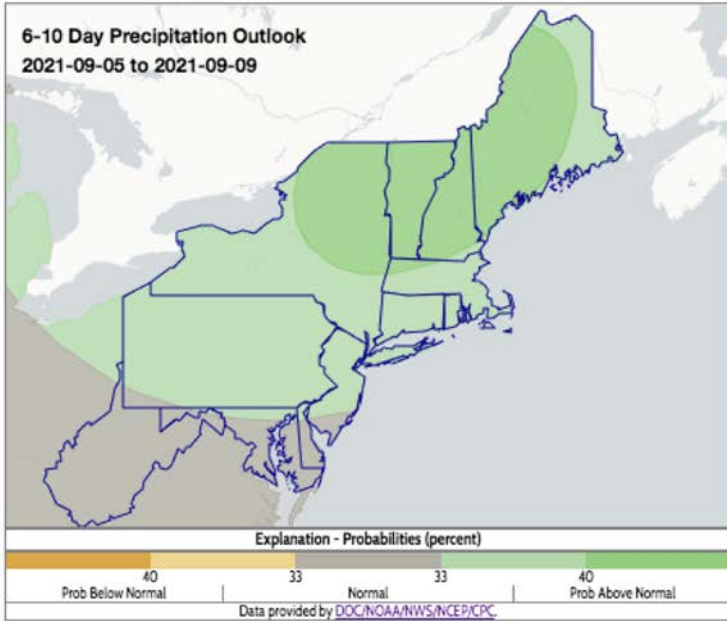


Severe Weather Outlook

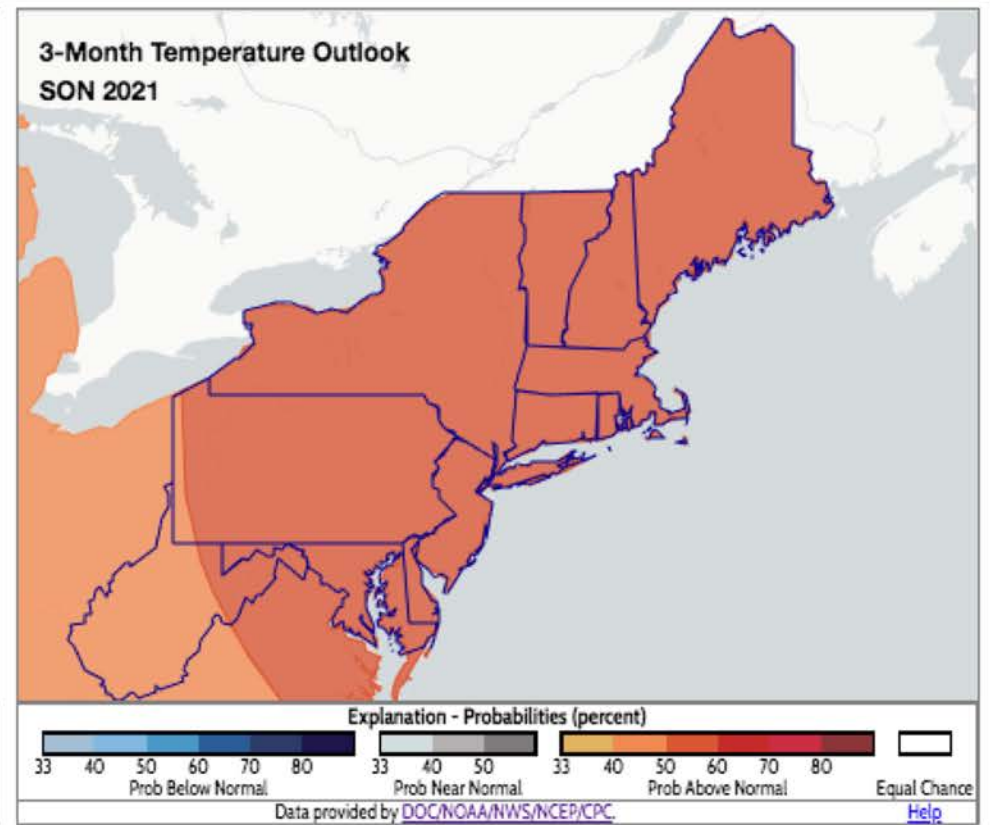
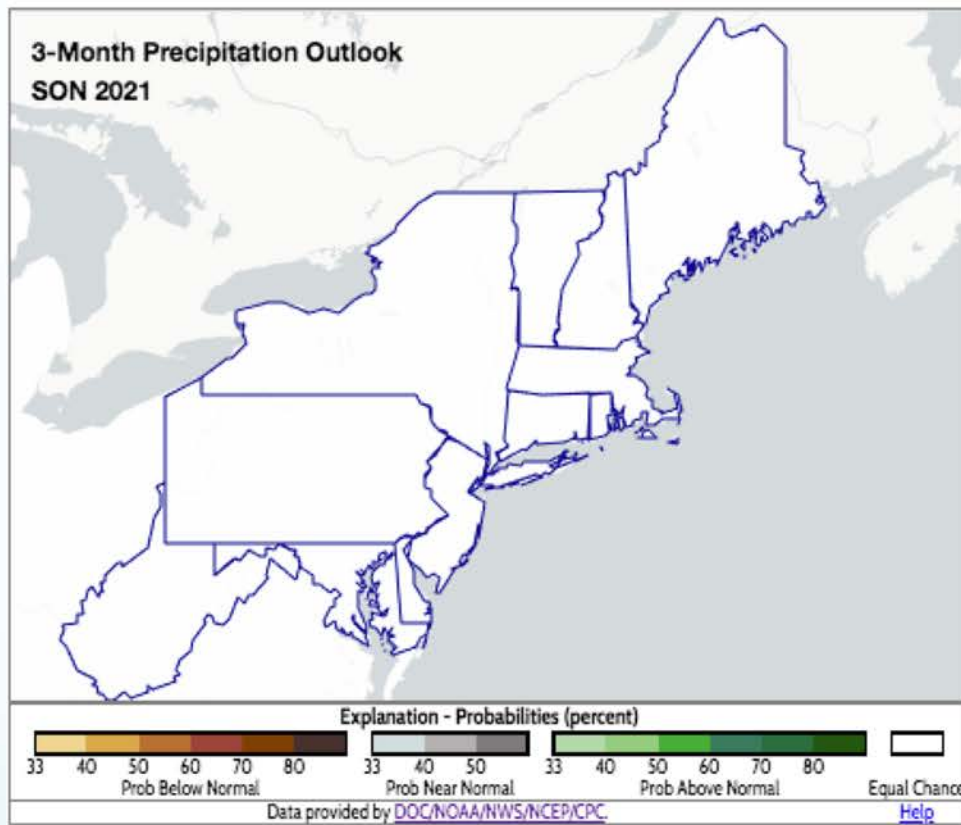


NOAA SPC DAY 2 CATEGORICAL OUTLOOK
ISSUED: 0554Z 08/31/2021
VALID: 1200Z Wed 09/01 - 1200Z Thu 09/02
FORECASTER: MOSIER
NOAA/NWS Storm Prediction Center, Norman, Oklahoma

Short-term Outlooks



Three-Month Outlook



Contact Information

- nrcc@cornell.edu

Upcoming Webinars

- Thursday, September 30 at 9:30am
 - Wet Bulb Globe Temperature Forecasting tool
- Thursday, October 28 at 9:30am
 - Chesapeake Bay watershed IDF curve project
- Tuesday, November 30 at 9:30am
 - ENSO and winter outlooks



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