

# July Conditions & Northeast DEWS Discussion

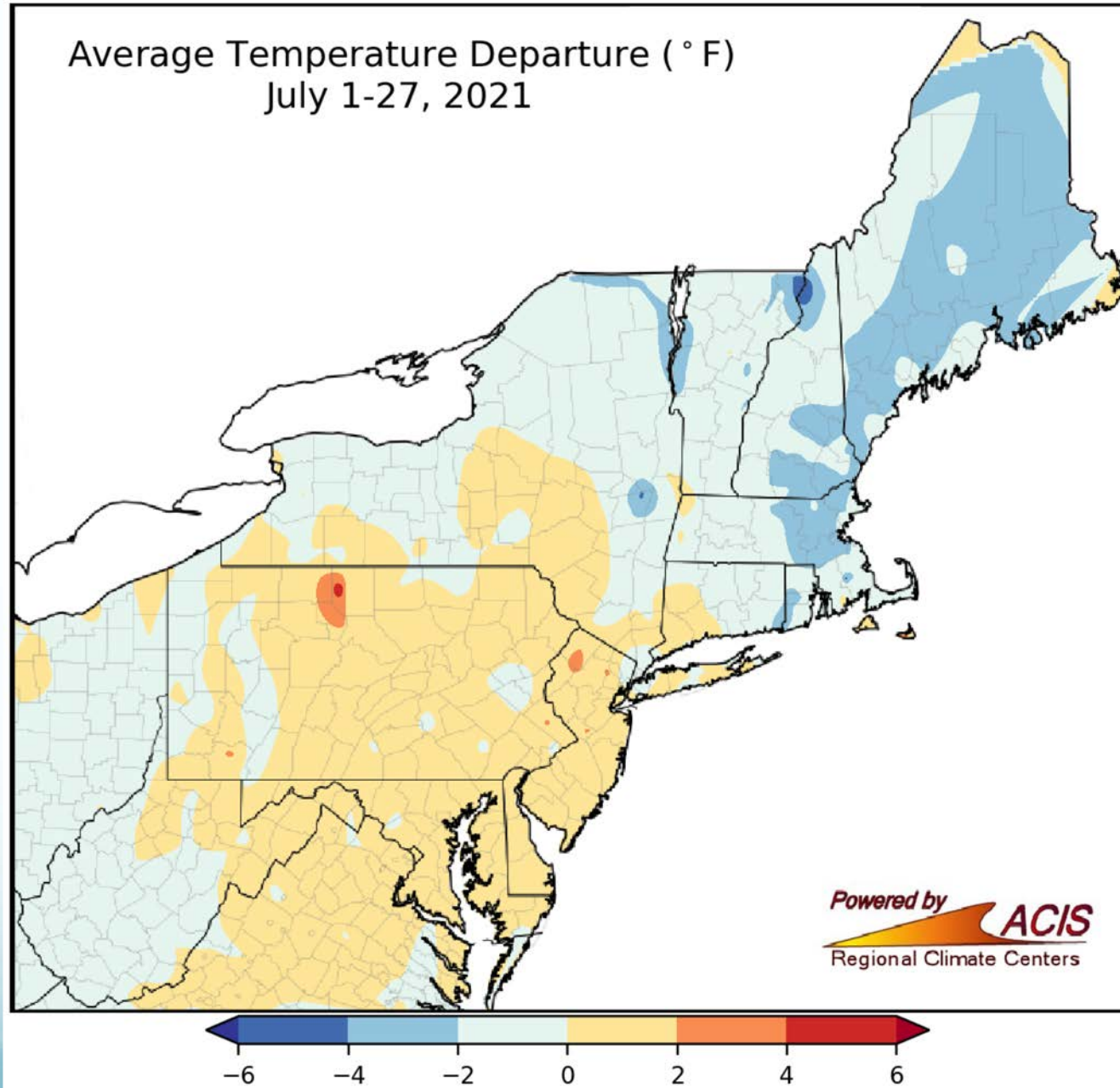
By: Samantha Borisoff, Climatologist  
Northeast Regional Climate Center



Northeast Regional  
Climate Center



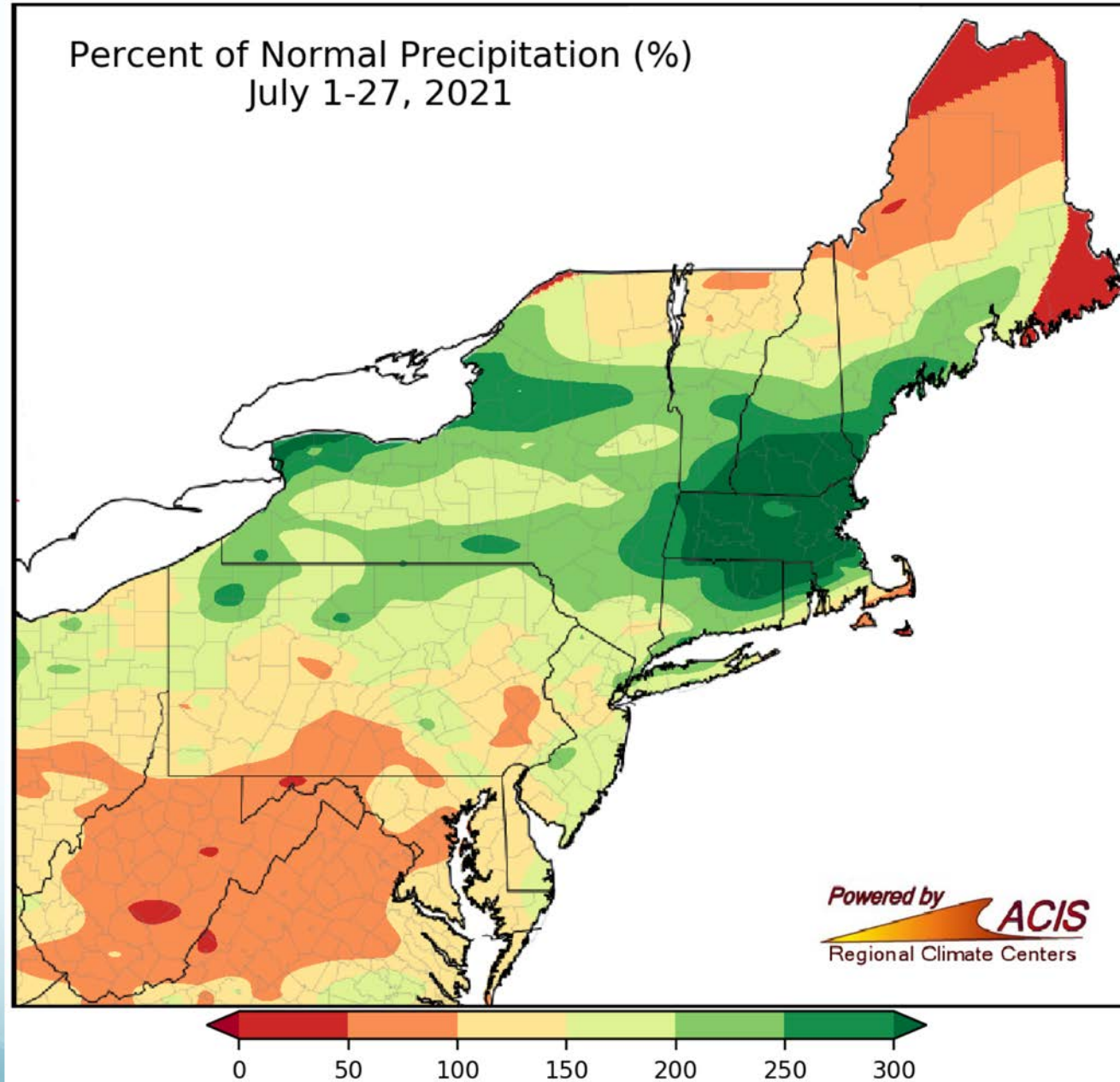
# July Temperatures



From 4°F below normal to 2°F above normal



# July Precipitation



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



# July Precipitation

Area	July 1-28, 2021 Precip. (in.)	July Normal (in.)	Percent of Normal	July Rank (wettest)	All-Time Rank (wettest)
Worcester, MA	13.54	3.93	345%	1	3
Concord, NH	11.26	3.62	311%	1	3
Boston, MA	9.92	3.27	303%	2	
Binghamton, NY	9.63	3.80	253%	1	5
Bridgeport, CT	8.32	3.32	251%	3	
Providence, RI	7.06	2.91	243%	3	
Hartford, CT	9.95	4.17	239%	3	
Portland, ME	7.89	3.43	230%	3	
Buffalo, NY	7.14	3.23	221%	4	
Central Park, NY	10.62	4.60	231%	3	
Rochester, NY	7.58	3.56	213%	5	10
LaGuardia Airport, NY	8.21	4.30	191%	7	
Albany, NY	8.12	4.55	178%	2	
Newark, NJ	8.34	4.66	179%	5	
Syracuse, NY	6.69	3.86	173%	7	
Harrisburg, PA	7.99	4.74	169%	9	
Huntington, WV	8.18	5.08	161%	5	
Atlantic City, NJ	6.72	4.47	150%	9	
Islip, NY	5.08	3.26	156%	9	





# Tropical Storm Elsa



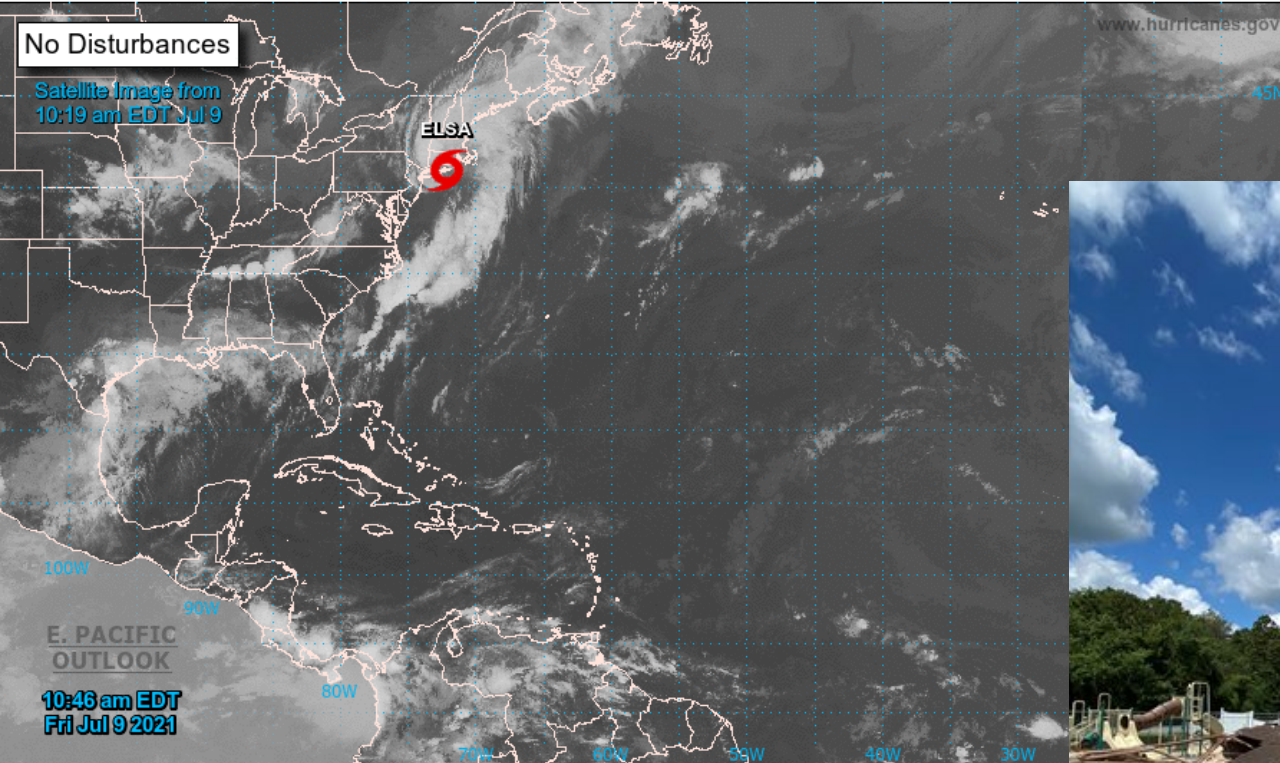
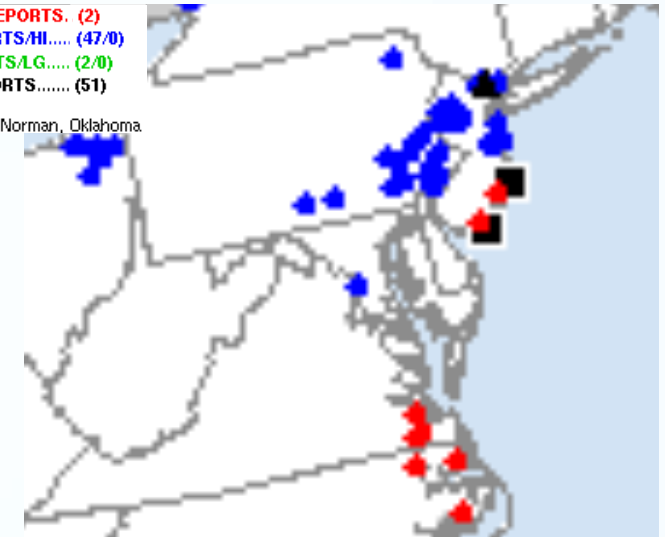
## Two-Day Graphical Tropical Weather Outlook National Hurricane Center Miami, Florida



National Weather Service  
Storm Prediction Center

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

Norman, Oklahoma



Current Disturbances and Two-Day Cyclone Formation Chance: < 40% 40-60%  
Tropical or Sub-Tropical Cyclone: Depression Storm Hurricane  
 Post-Tropical Cyclone or Remnants



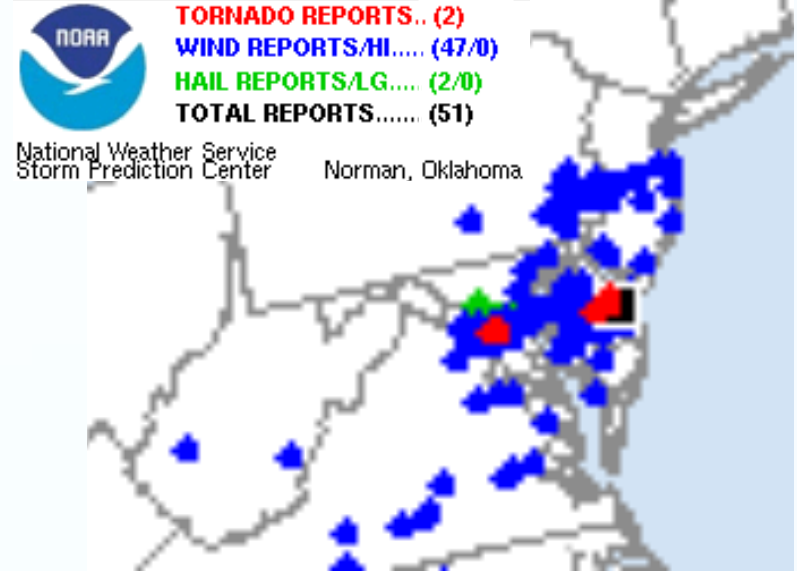
ISSUED: 5:47 PM - Friday,  
July 9, 2021  
NWS Philadelphia/Mt. Holly





# July Severe Weather

Courtesy of  
NWS BGM



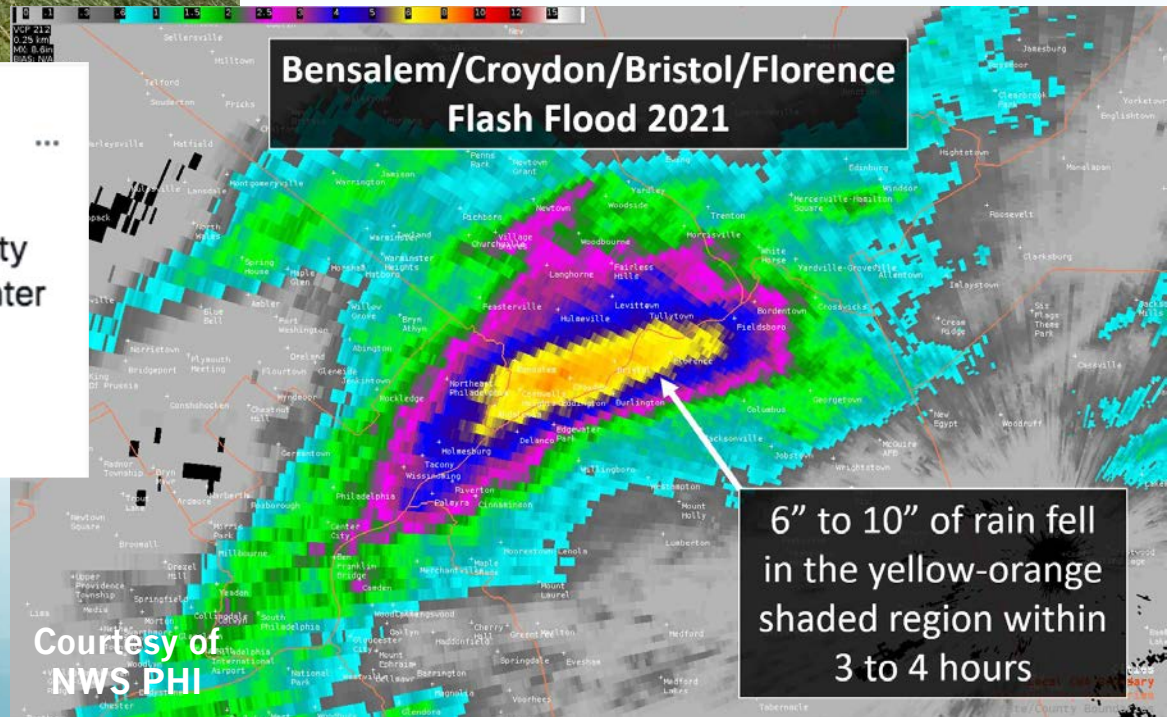
↳ NWS Mount Holly Retweeted



**Bensalem Fire Rescue**  
@Bensalem\_Fire

Numerous Marine Units from throughout Bucks County are on in Bensalem or en-route to assist numerous water / marine rescues. Please stay home and off the roadways!!

7:33 PM · Jul 12, 2021 · Twitter for iPhone



# Drought Monitor

## U.S. Drought Monitor Northeast Climate Region

**June 29, 2021**  
(Released Thursday, Jul. 1, 2021)  
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
<b>Current</b>	58.59	21.37	16.53	3.51	0.00	0.00
<b>Last Week</b> 06-22-2021	58.57	21.98	18.34	1.11	0.00	0.00
<b>3 Months Ago</b> 03-30-2021	62.96	28.35	8.69	0.00	0.00	0.00
<b>Start of Calendar Year</b> 12-29-2020	77.60	18.77	3.63	0.00	0.00	0.00
<b>Start of Water Year</b> 09-29-2020	29.84	24.85	19.05	22.37	3.89	0.00
<b>One Year Ago</b> 06-30-2020	54.44	31.33	14.23	0.00	0.00	0.00

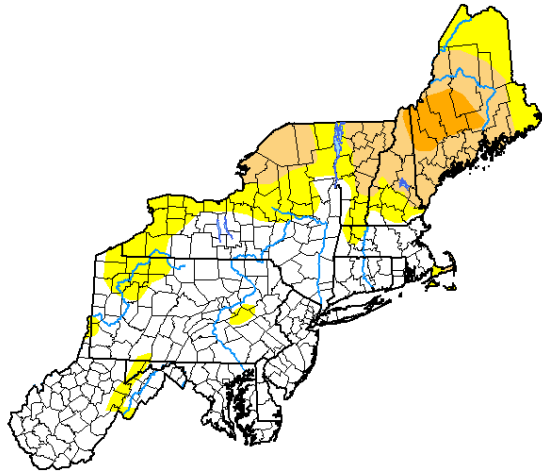
**Intensity:**  
 None  
 D0 Abnormally Dry  
 D1 Moderate Drought  
 D2 Severe Drought  
 D3 Extreme Drought  
 D4 Exceptional Drought

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 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
<b>Current</b>	77.06	14.26	7.31	1.38	0.00	0.00
<b>Last Week</b> 07-20-2021	77.09	11.77	9.57	1.58	0.00	0.00
<b>3 Months Ago</b> 04-27-2021	45.90	40.56	13.54	0.00	0.00	0.00
<b>Start of Calendar Year</b> 12-29-2020	77.60	18.77	3.63	0.00	0.00	0.00
<b>Start of Water Year</b> 09-29-2020	29.84	24.85	19.05	22.37	3.89	0.00
<b>One Year Ago</b> 07-28-2020	28.93	42.43	26.93	1.72	0.00	0.00

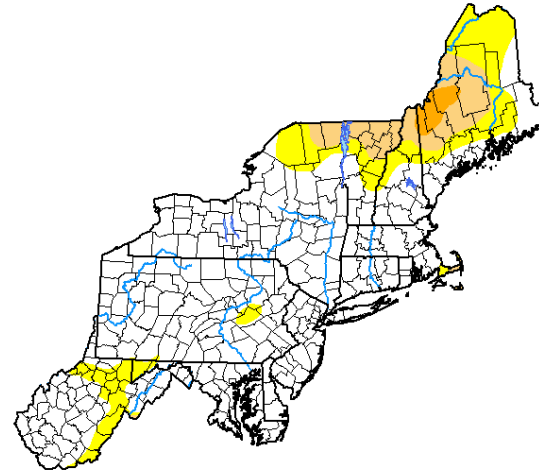
**Intensity:**  
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**Author:**  
Brad Rippey  
U.S. Department of Agriculture



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



# Drought Monitor

## U.S. Drought Monitor Northeast DEWS

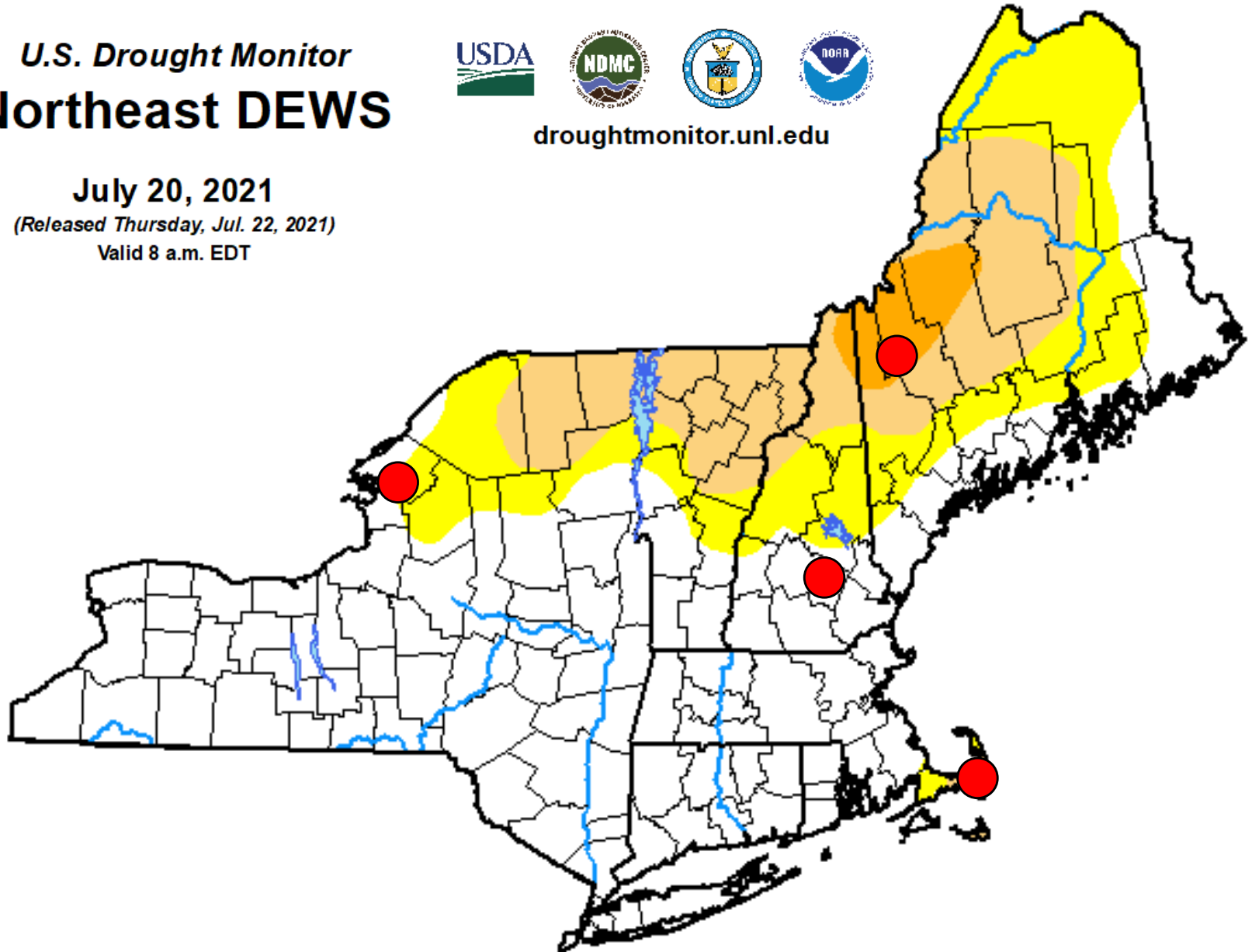


[droughtmonitor.unl.edu](http://droughtmonitor.unl.edu)

July 20, 2021

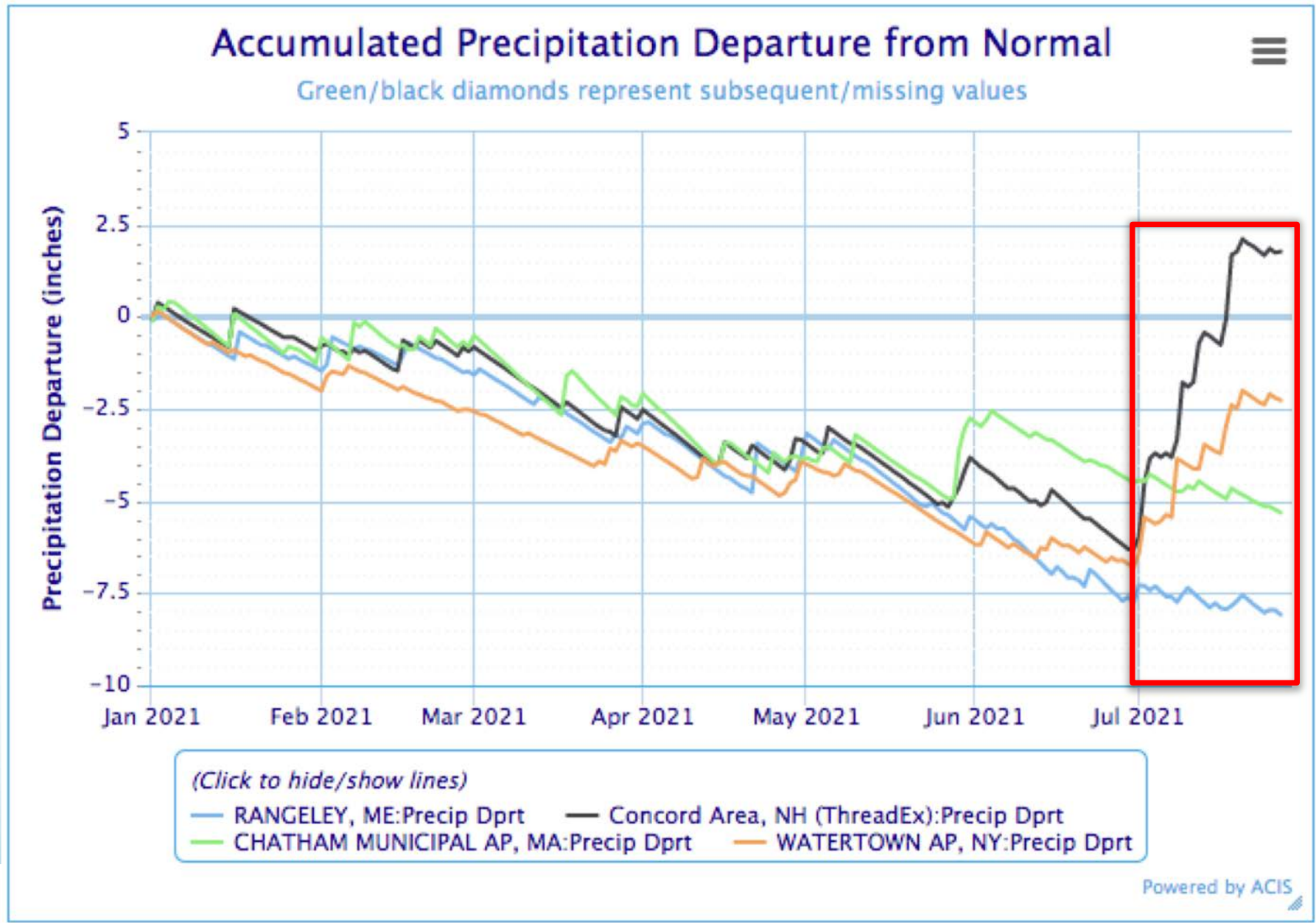
(Released Thursday, Jul. 22, 2021)

Valid 8 a.m. EDT

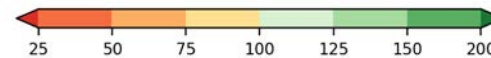
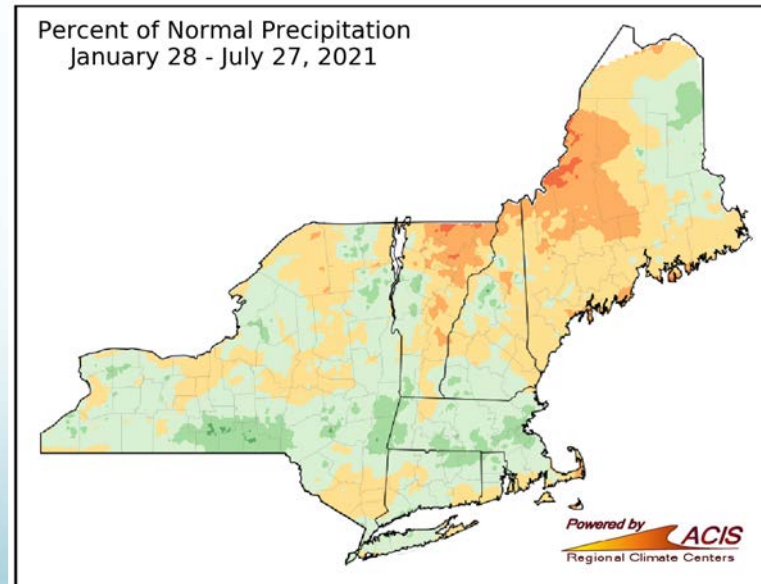
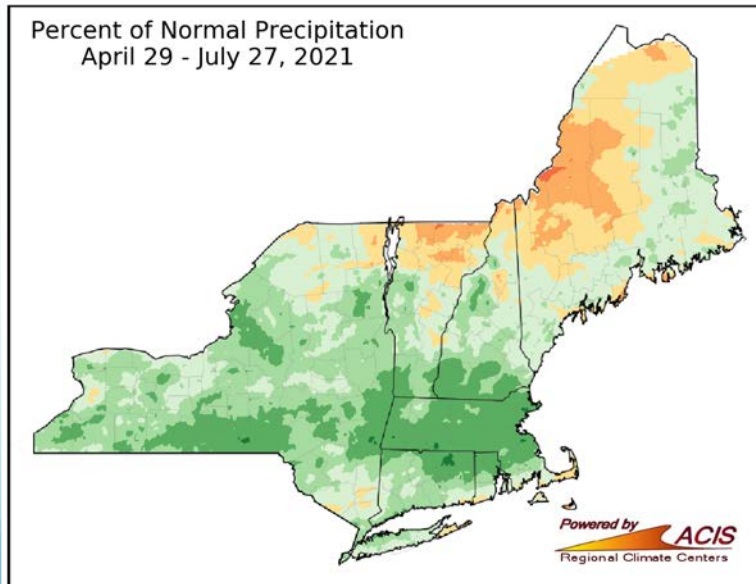
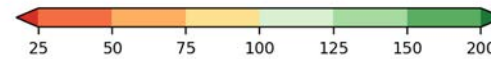
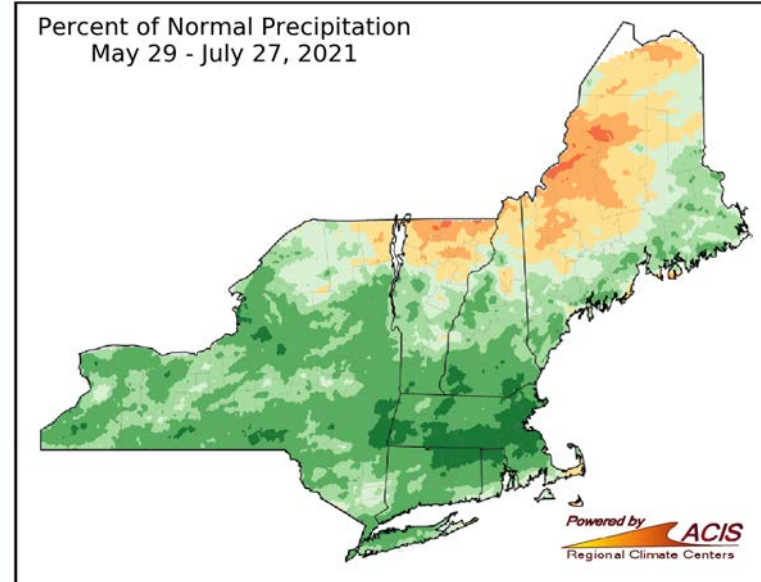
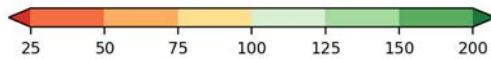
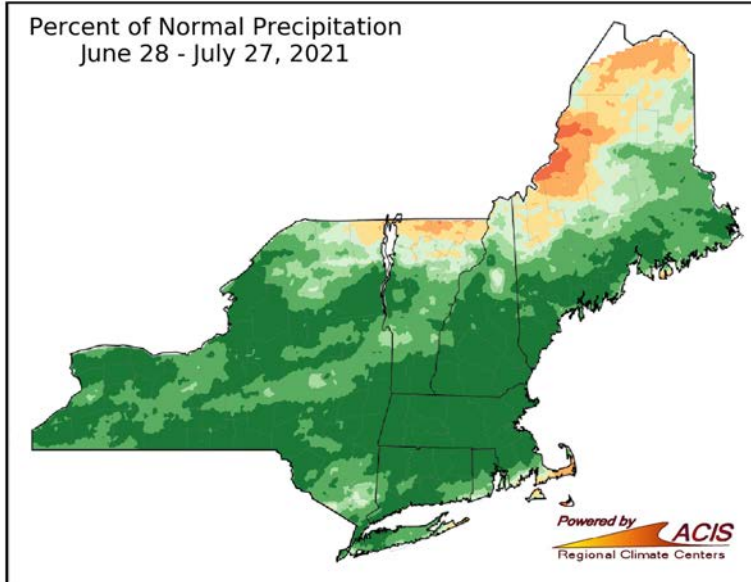




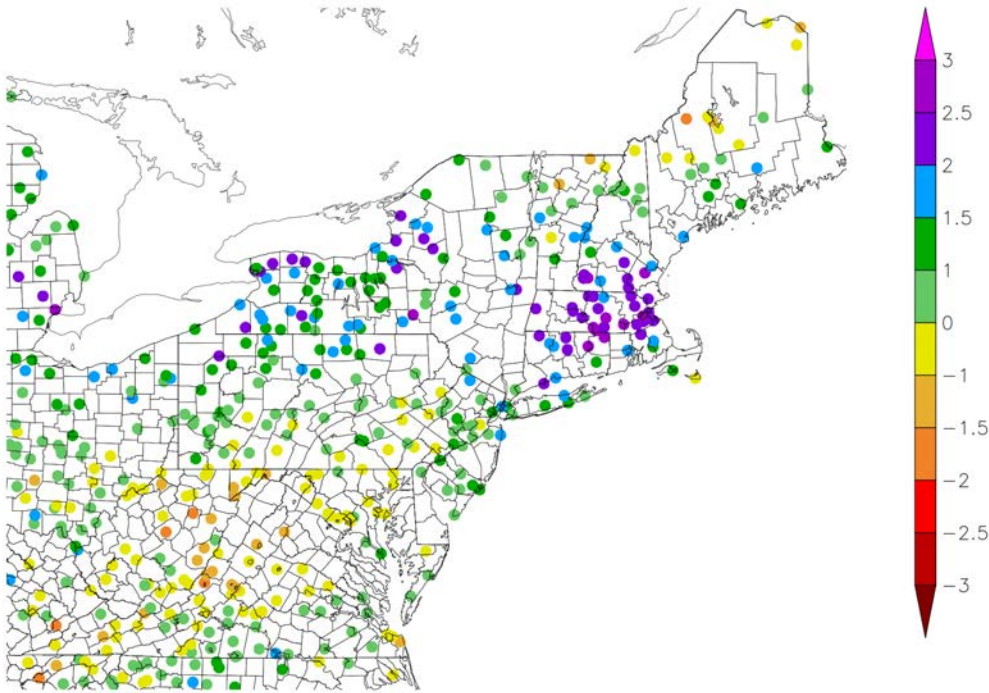
# Precipitation



# Precipitation

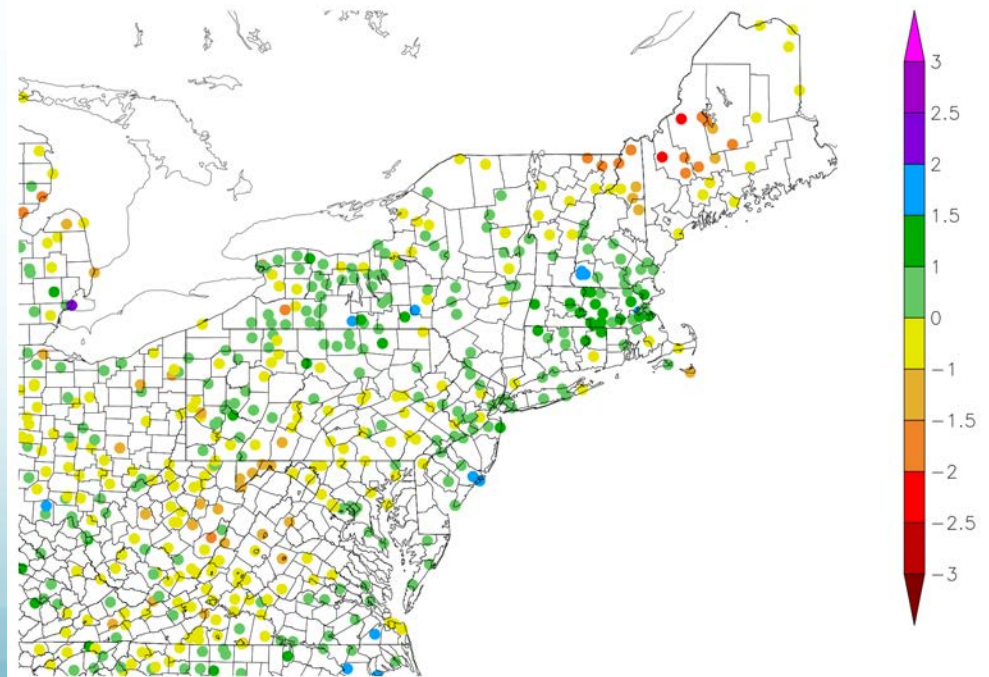


30 Day SPI  
6/25/2021 - 7/24/2021



# Standardized Precipitation Index

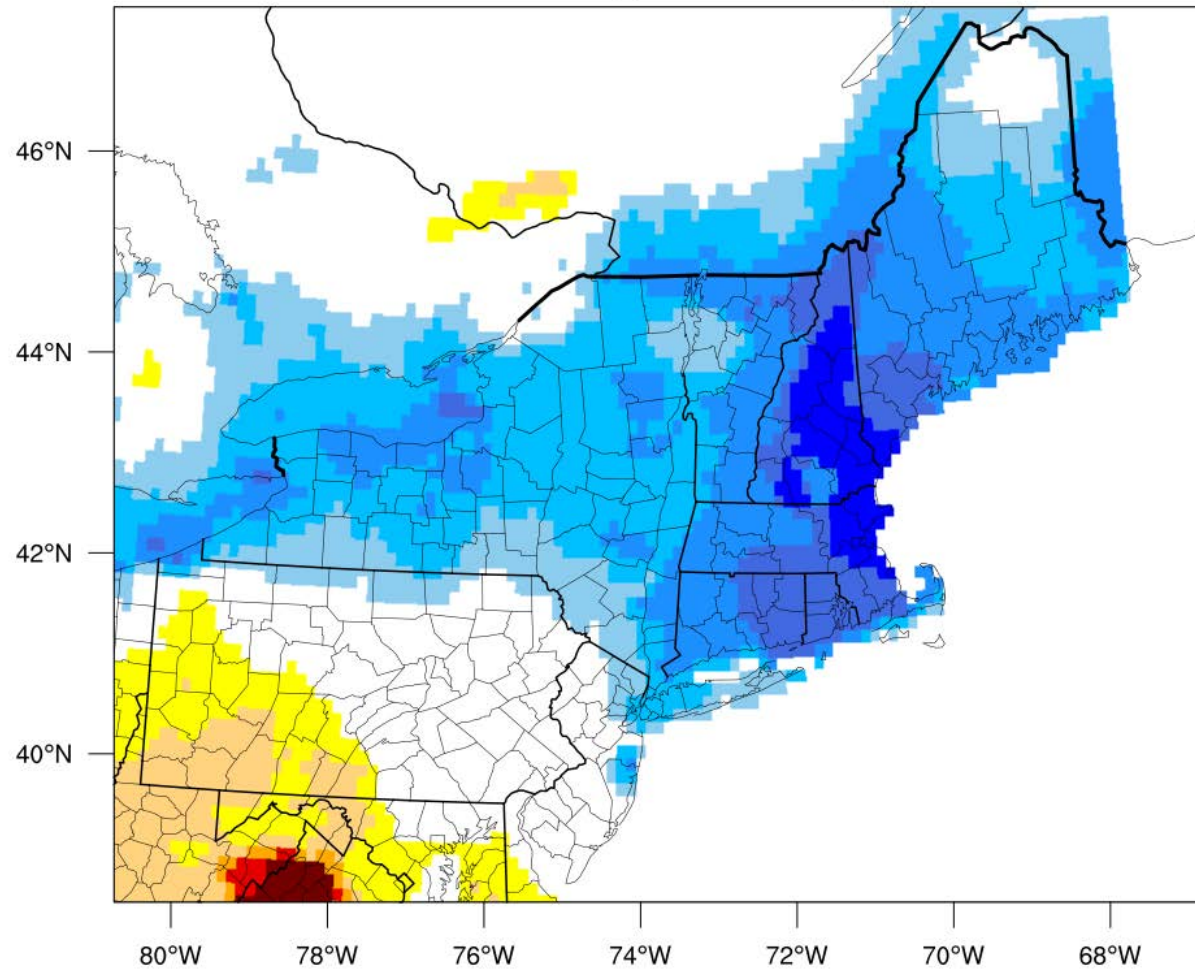
6 Month SPI  
1/27/2021 - 7/26/2021





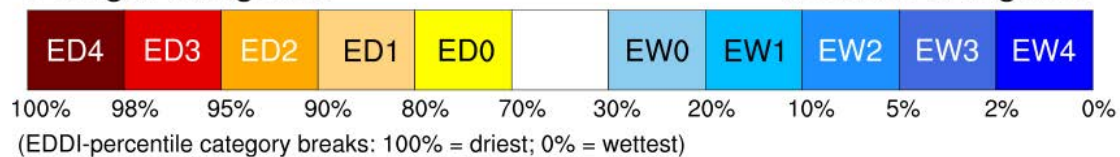
# Evap. Demand Drought Index

3-week EDDI categories for July 23, 2021



Drought categories

Wetness categories



Generated by NOAA/ESRL/Physical Sciences Laboratory

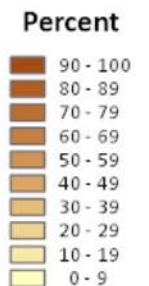
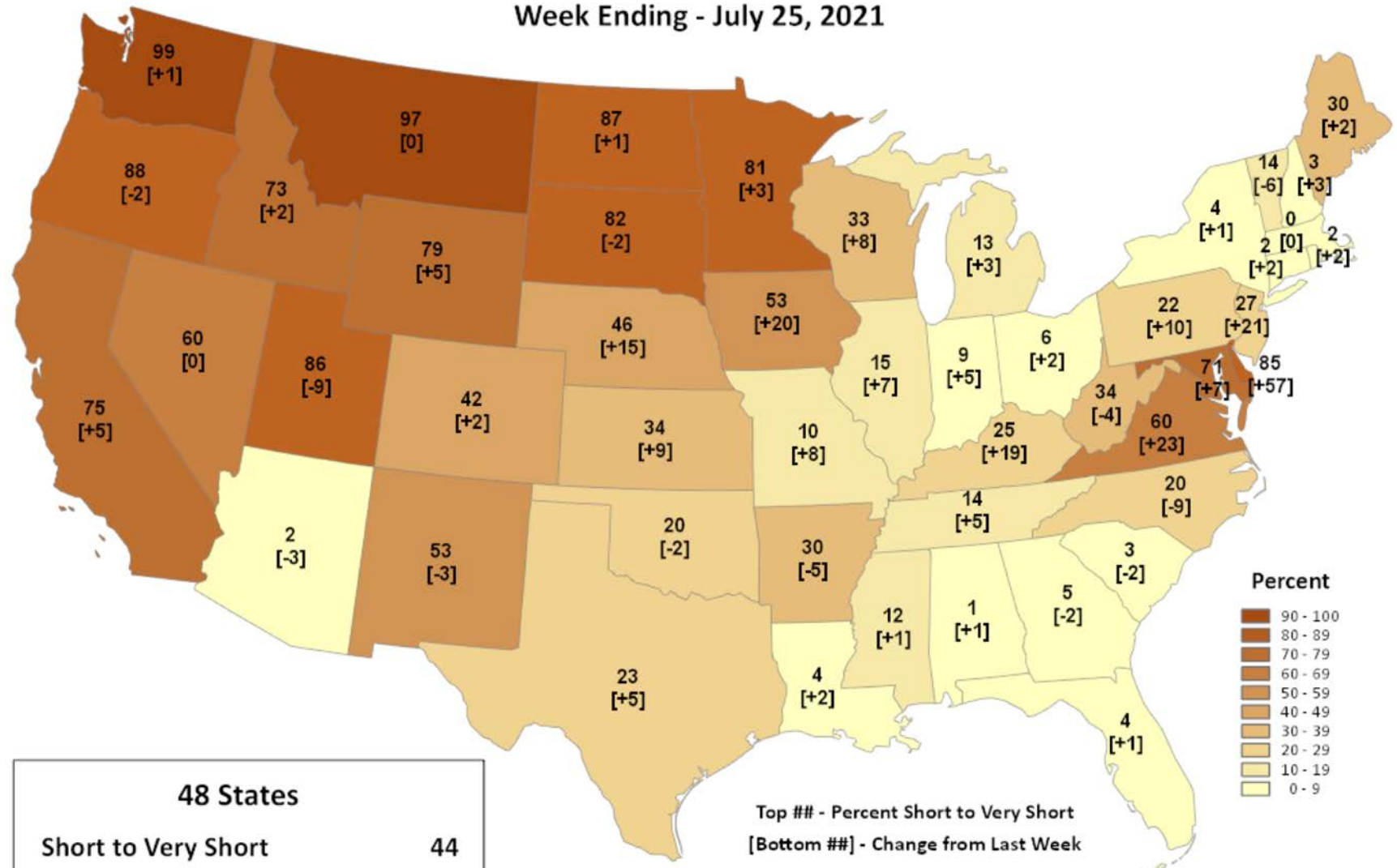


# Soil Moisture



This product was prepared by the  
USDA Office of the Chief Economist (OCE)  
World Agricultural Outlook Board (WAOB)

## Topsoil Moisture Percent Short to Very Short Week Ending - July 25, 2021



<b>48 States</b>	
Short to Very Short	<b>44</b>
Change from Last Week	<b>+5</b>

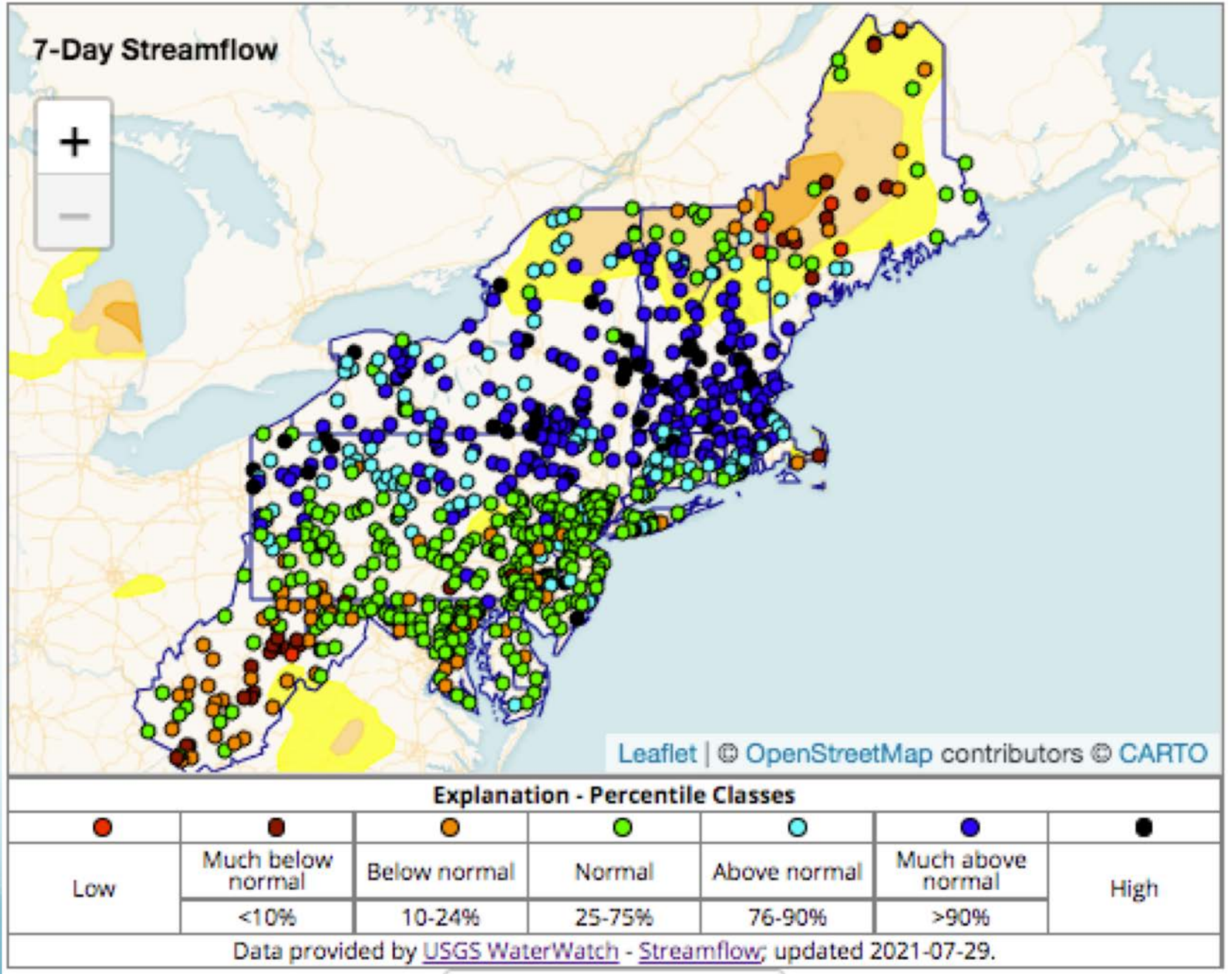
Top ### - Percent Short to Very Short  
[Bottom ##] - Change from Last Week

Data obtained from USDA National Agricultural Statistics Service weekly Crop Progress reports.



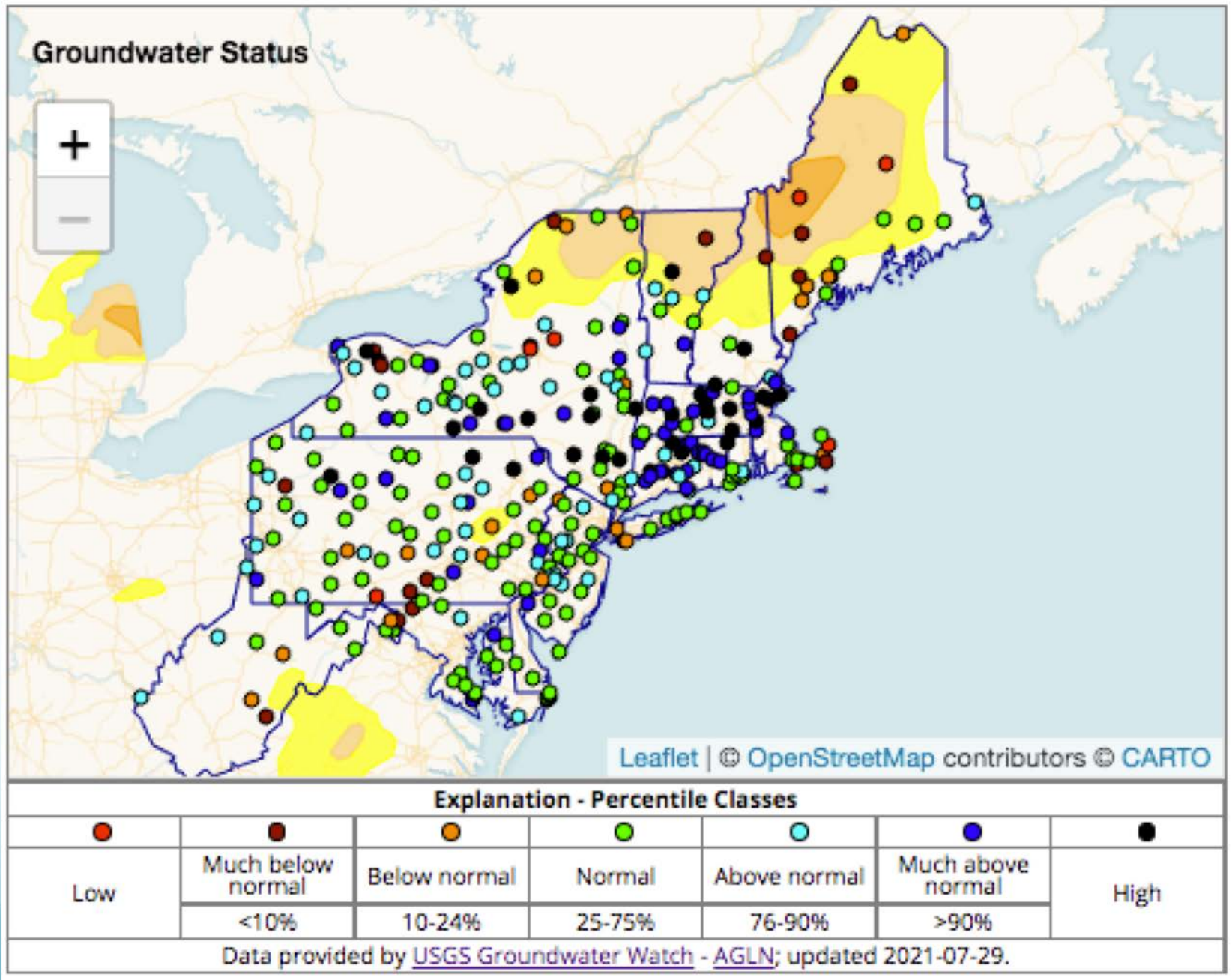


# Streamflow







# Groundwater



# Known Water Use Restrictions

Last Update: 7/22/2021



## Legend

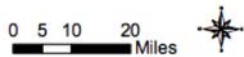
-  County Boundary
-  Town Boundary

## Drought Condition

-  Abnormally Dry
-  Moderate Drought
-  Severe Drought
-  Extreme Drought

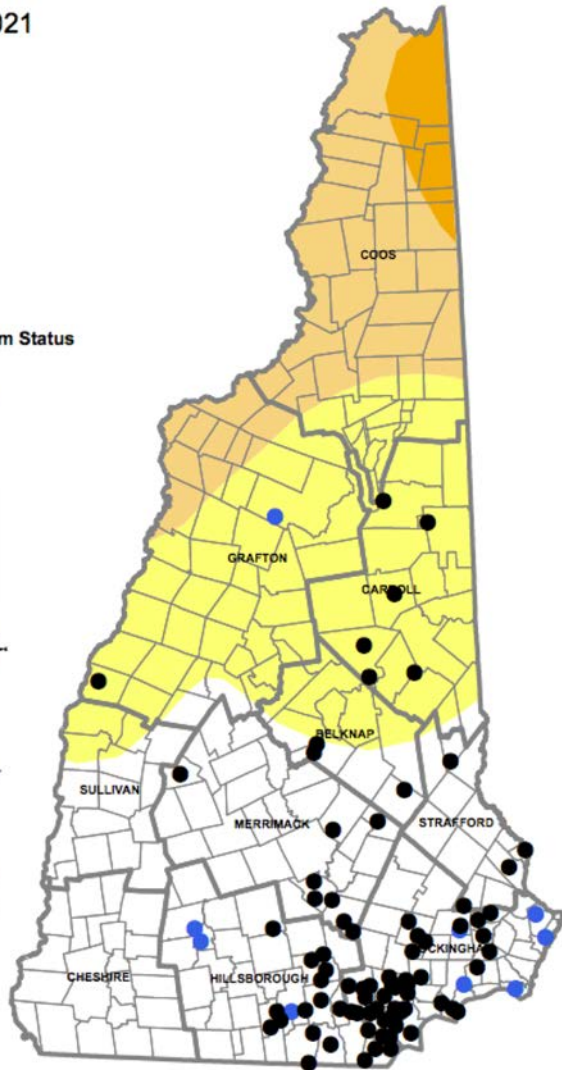
## Municipality or Water System Status

-  Voluntary Restriction
-  Mandatory Restriction



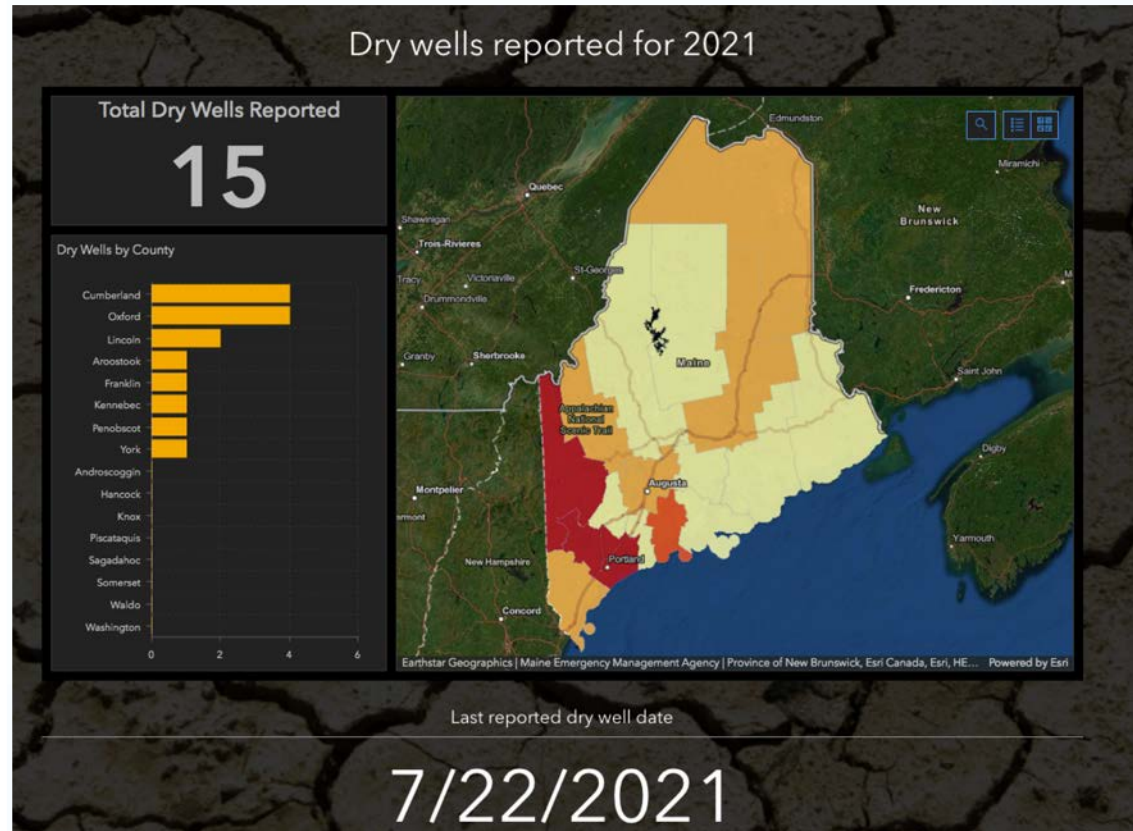
Drought Conditions based on United States Drought Monitor (<https://droughtmonitor.unl.edu/CurrentMap/StateDroughtMonitor.aspx?NH>)

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.



# Impacts

Dry wells reported for 2021

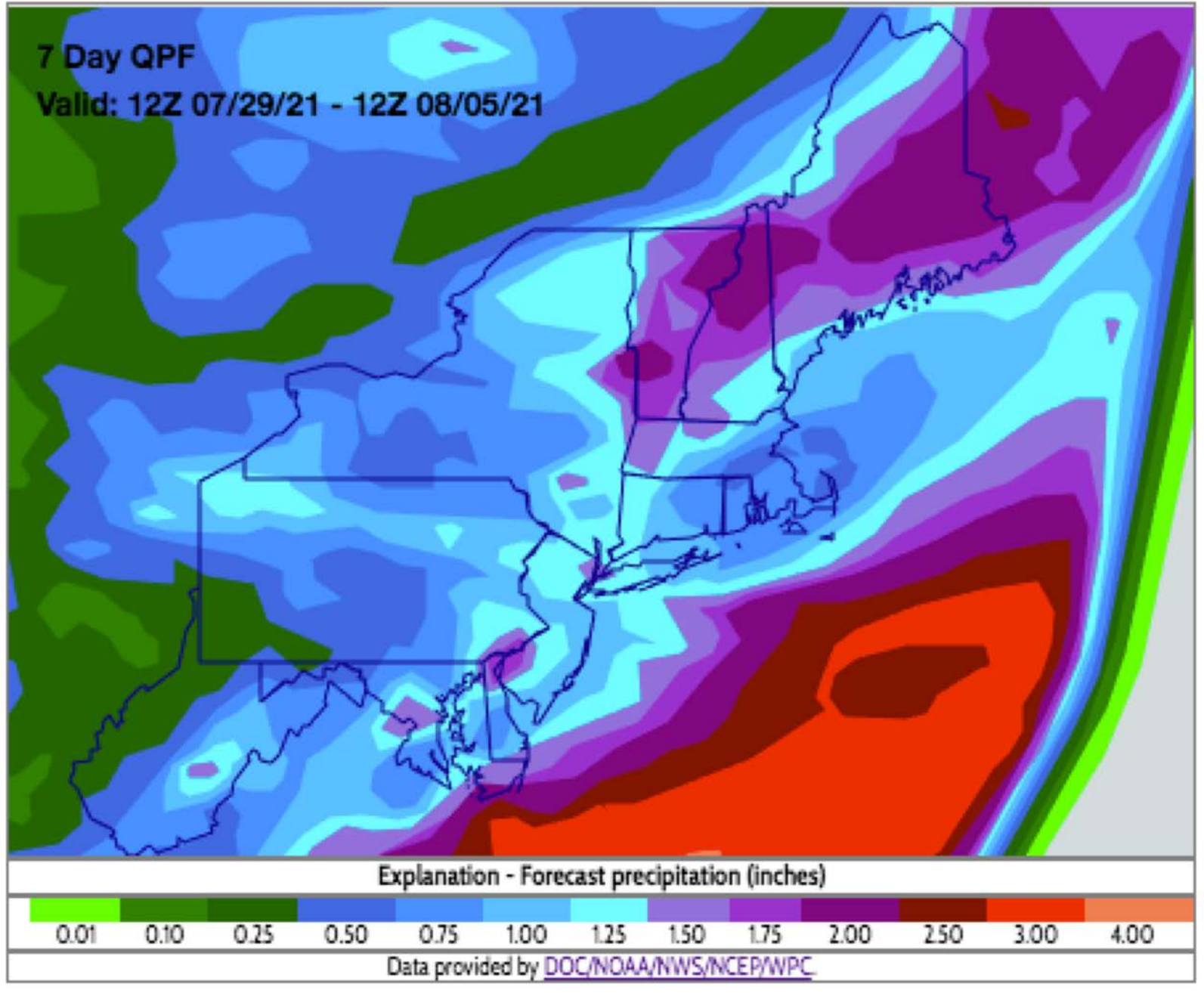


<https://maine-dry-well-survey-maine.hub.arcgis.com/>

<https://anrmaps.vermont.gov/websites/droughtreporter/>

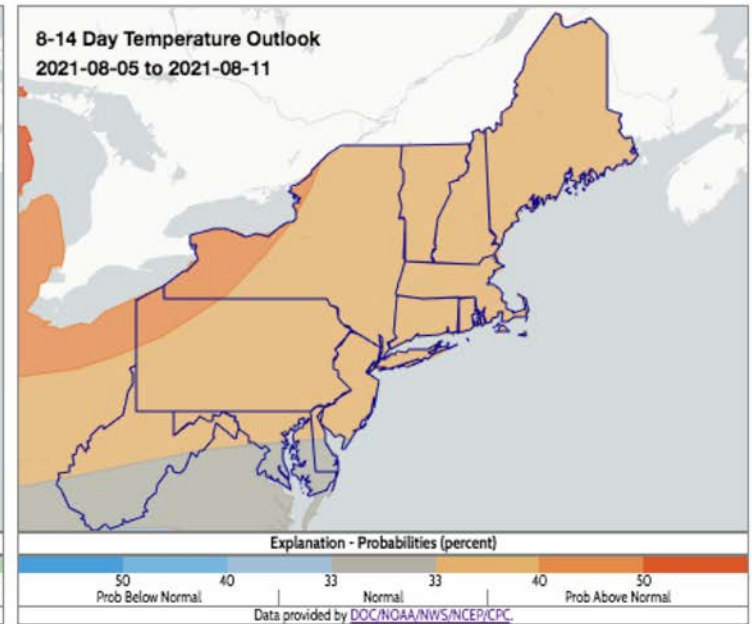
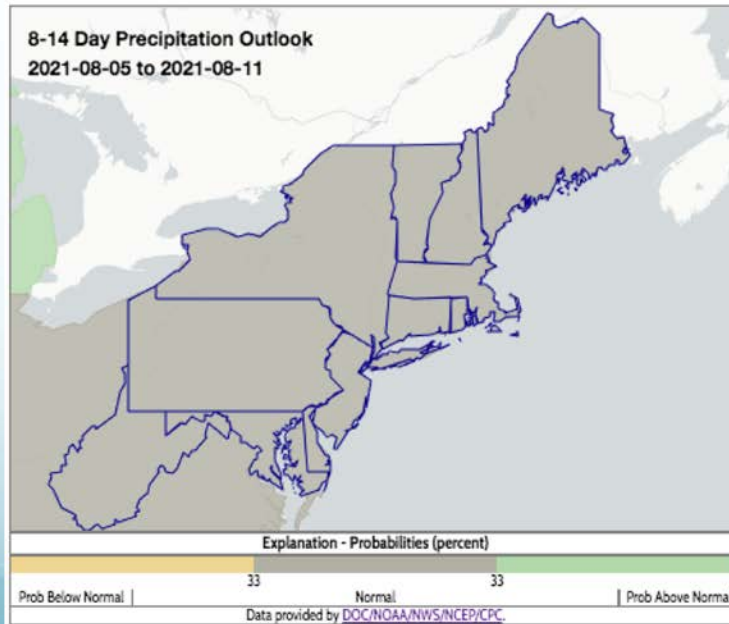
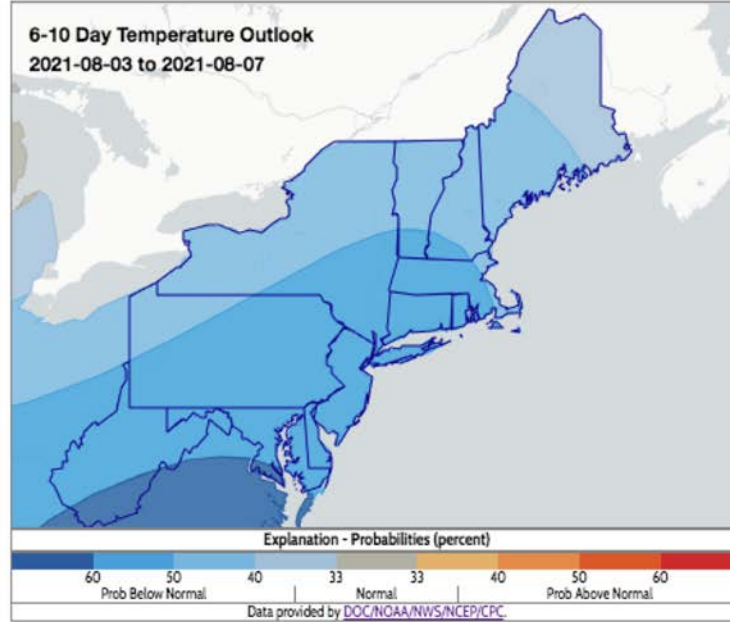
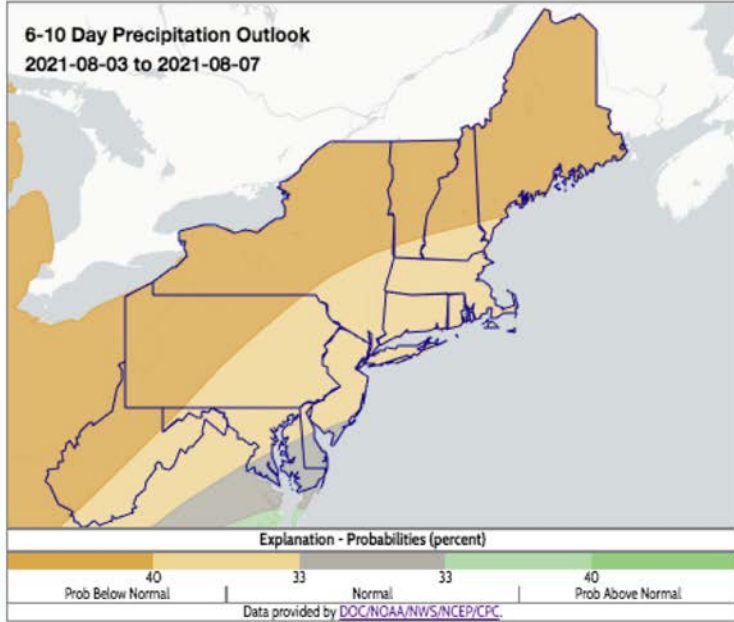


# Precipitation Forecast

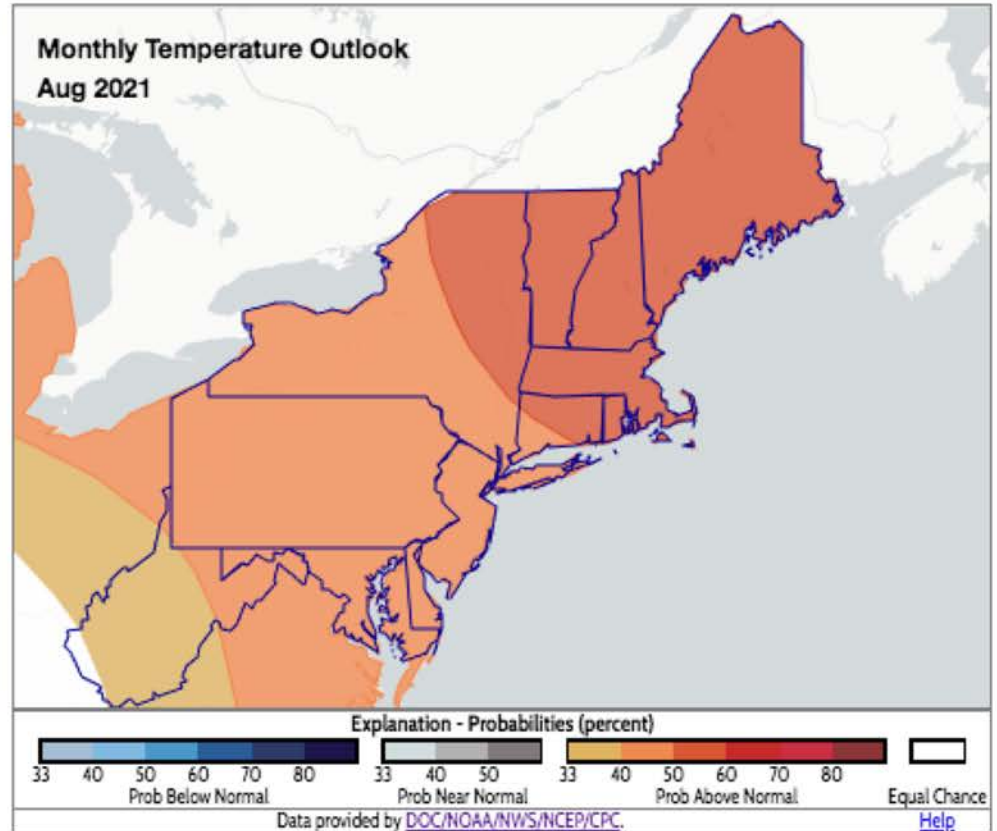
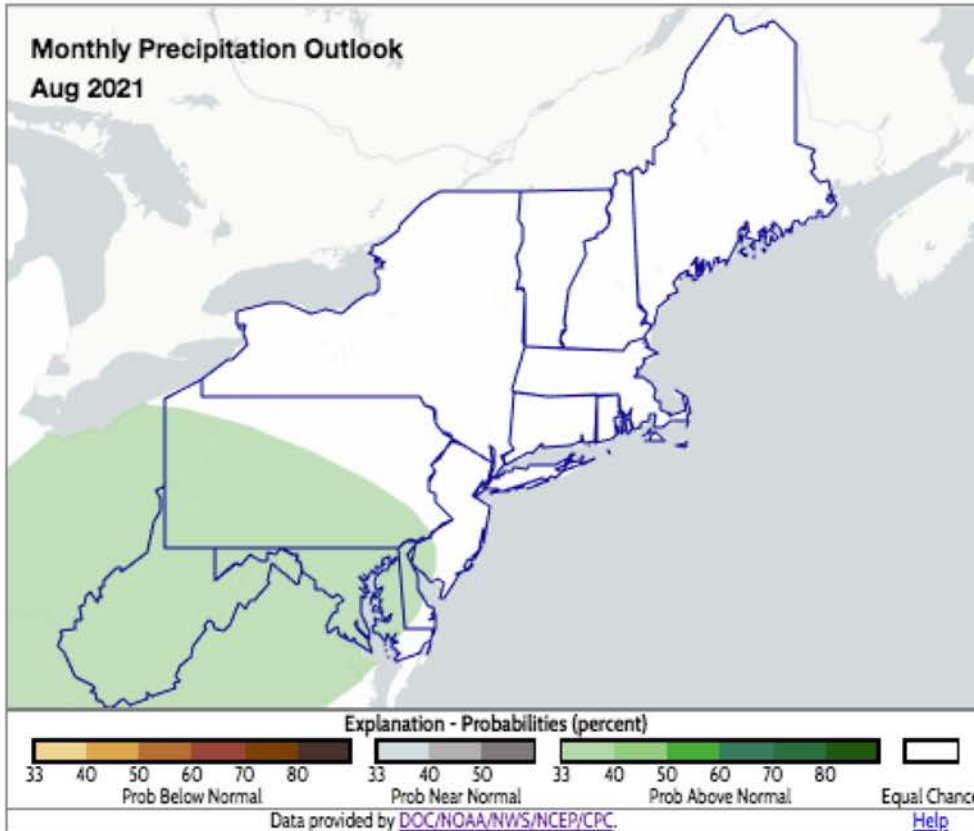




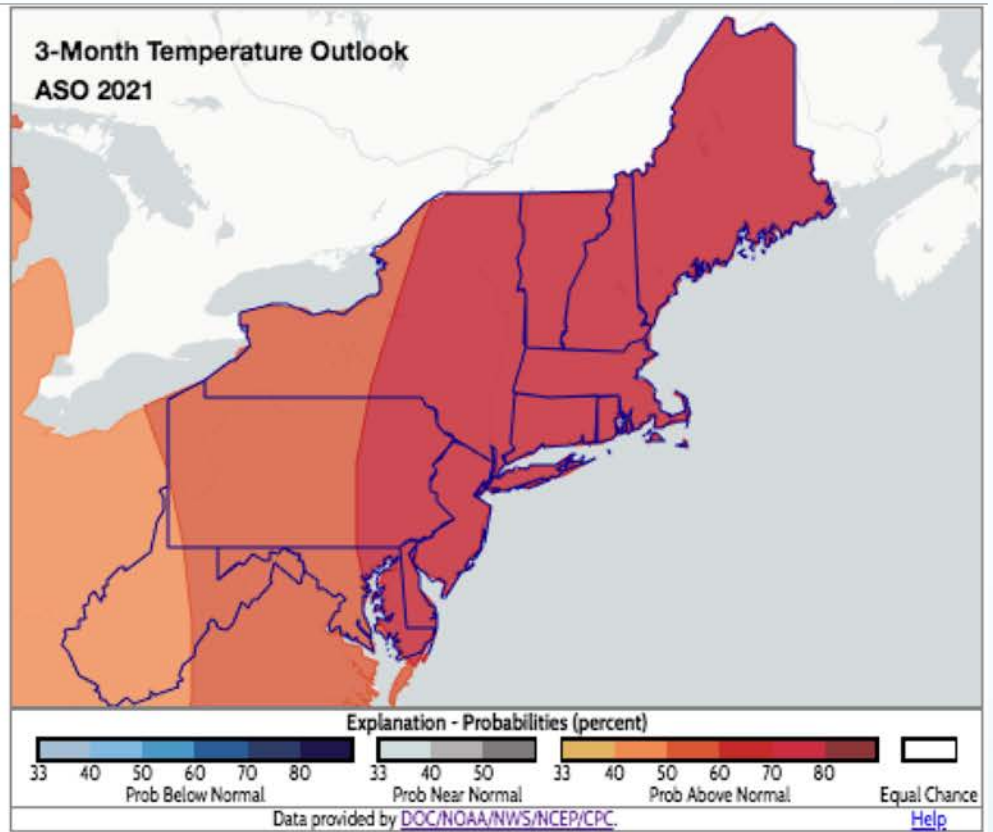
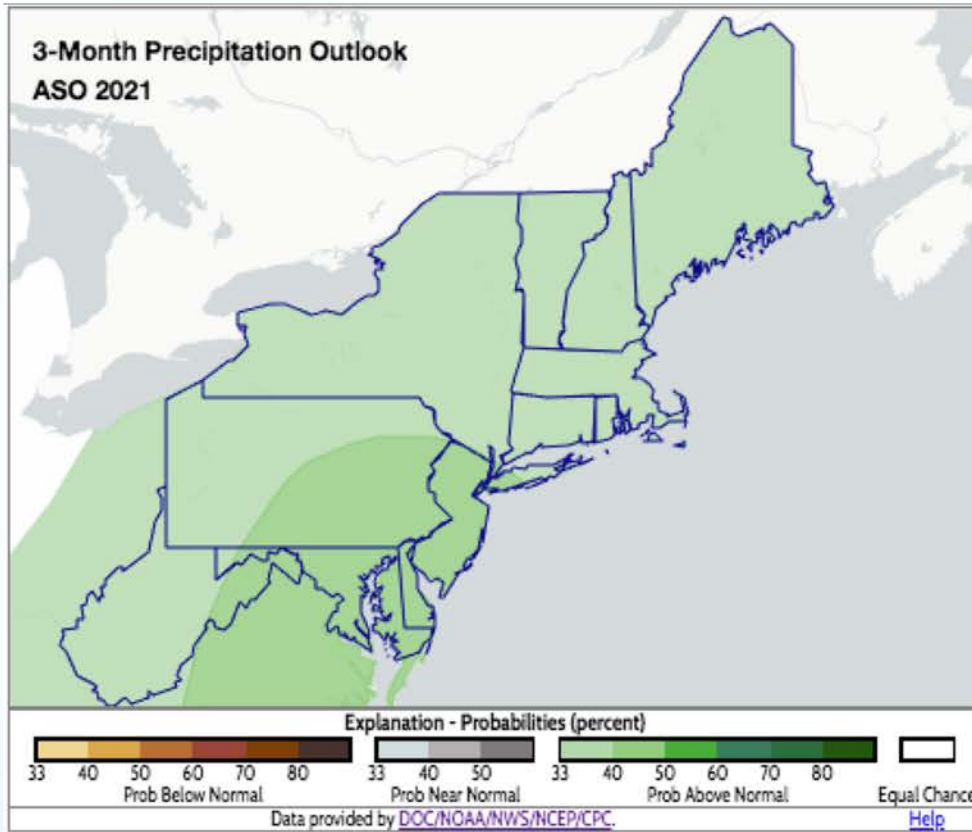
# Short-term Outlooks



# Monthly Outlook



# Three-Month Outlook





# Contact Information

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

## Upcoming Webinars

- Tuesday, August 31 at 9:30am
  - Atlantic hurricane season outlook



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