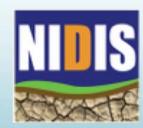
July Conditions & Northeast DEWS Discussion

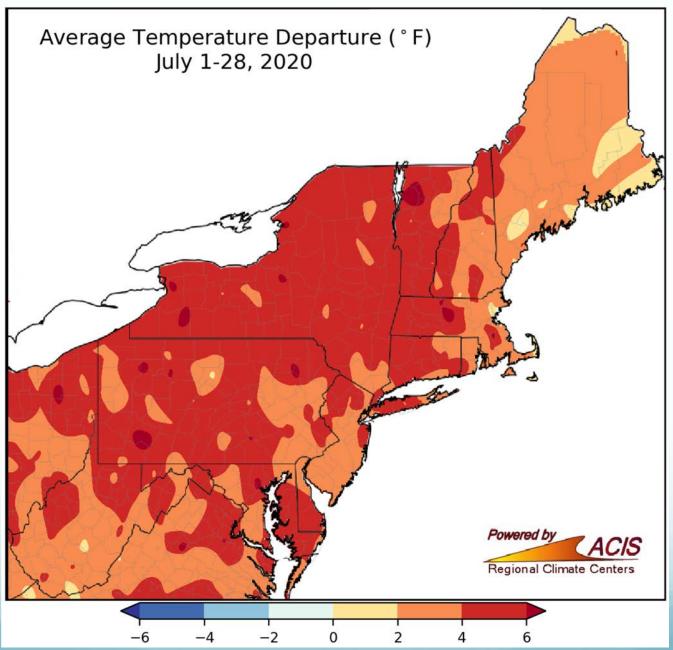
By: Samantha Borisoff, Climatologist Northeast Regional Climate Center







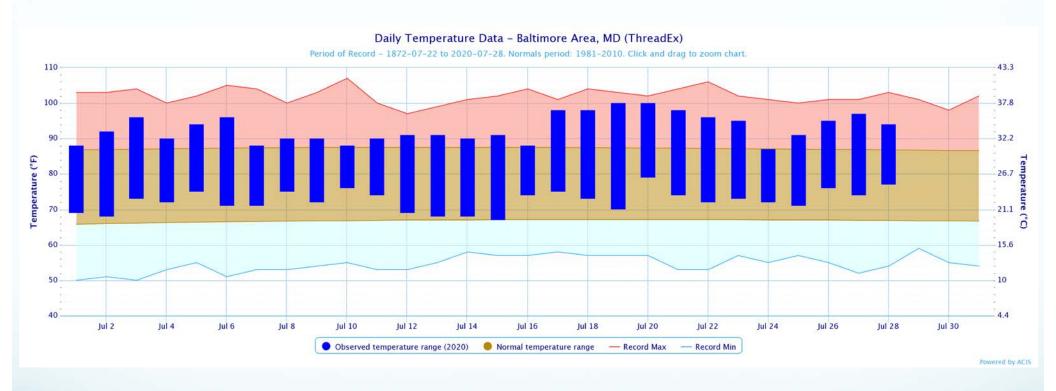
July Temperatures

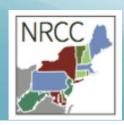




From near normal to more than 6°F above normal

July Temperatures





Time Series Summary for Baltimore Area, MD (ThreadEx)

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

Rank	Year-Month	Mean Avg Temperature	Missing Count
1	2020-07	82.7	3
2	2011-07	81.7	0

July Temperatures

Time Series Summary for Syracuse Area, NY (ThreadEx)

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

Rank	Year-Month	Mean Avg Temperature	Missing Count
1	2020-07	77.6	3
2	1955-07	76.6	0
-	1921-07	76.6	0

Likely the all-time hottest month on record for several sites

Washington, D.C. & Scranton – greatest number of days with a high of at least 90°F for any month

Time Series Summary for Washington Area, DC (ThreadEx)

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

Rank	Year-Month	Number of Days Max Temperature >= 90	Missing Count
1	2020-07	27	2
2	2011-07	25	0
3	1993-07	24	0
-	1987-07	24	0

Time Series Summary for Avoca Area, PA (ThreadEx)

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

Rank	Year-Month	Number of Days Max Temperature >= 90	Missing Count
1	2020-07	16	2
2	2016-07	15	0
3	1955-07	14	0



Number of Consecutive Days Max Temperature >= 90 for Buffalo Area, NY (ThreadEx)

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

Rank	Run Length	Dates
1	8	2020-07-03 through 2020-07-10
2	7	1988-07-04 through 1988-07-10
3	5	1963-06-27 through 1963-07-01
-	5	1947-08-10 through 1947-08-14

Maximum 1-Day Mean Max Temperature for Buffalo Area, NY (ThreadEx)

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

Rank	Value	Ending Date
1	98.0	2020-07-09
2	97.0	2020-07-10
	97.0	1995-07-15
1-	97.0	1988-07-06

July Temperatures

Buffalo – longest streak of days with a high of at least 90°F

Portland Jetport – hottest low temperature on record

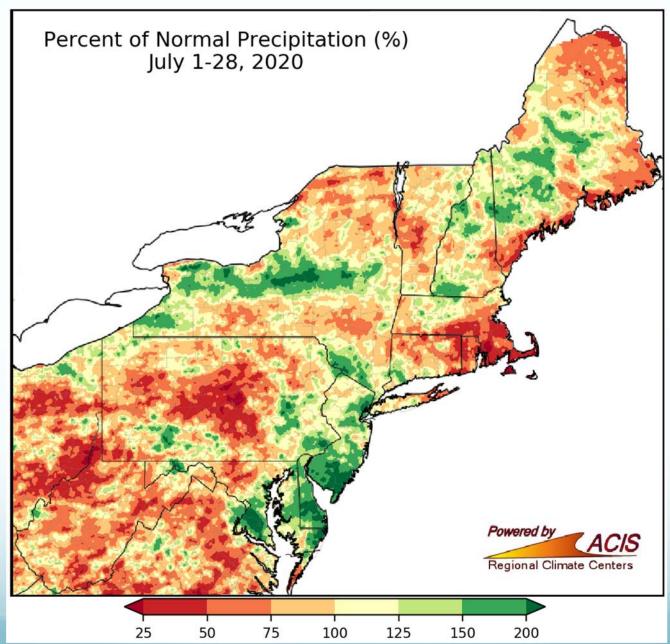


Maximum 1-Day Mean Min Temperature for PORTLAND JETPORT, ME

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

Rank	Value	Ending Date	
1	78.0	2020-07-27	
2	76.0	2019-07-21	
-	76.0	2011-07-22	

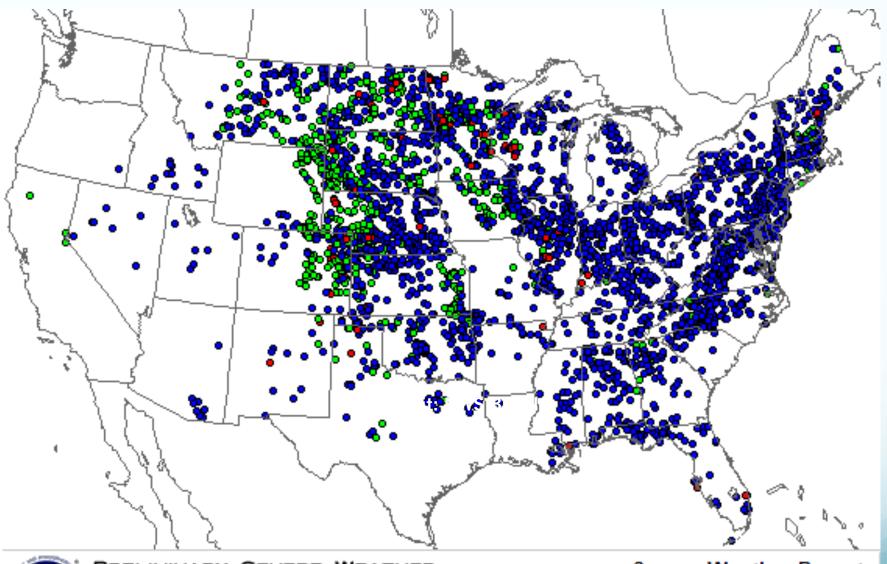
July Precipitation





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

July Severe Weather





PRELIMINARY SEVERE WEATHER REPORT DATABASE (ROUGH LOG)

NOAA/Storm Prediction Center Norman, Oklahoma

Severe Weather Reports July 01, 2020 - July 24, 2020

Updated: Friday July 24, 2020 07:47 CT

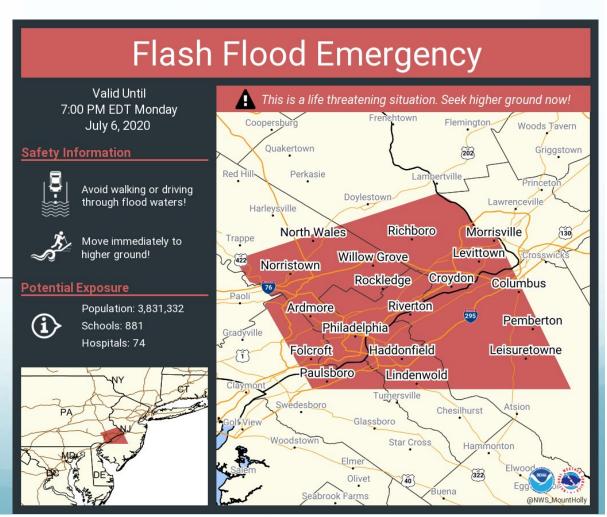
1.76 4.57 4.67 4.62 3.21 2.65 1.37 1.99 1.62 0.88 Philadelphia 0.99 Credit: CoCoRaHS

Severe flash flooding Flash Flood Emergency

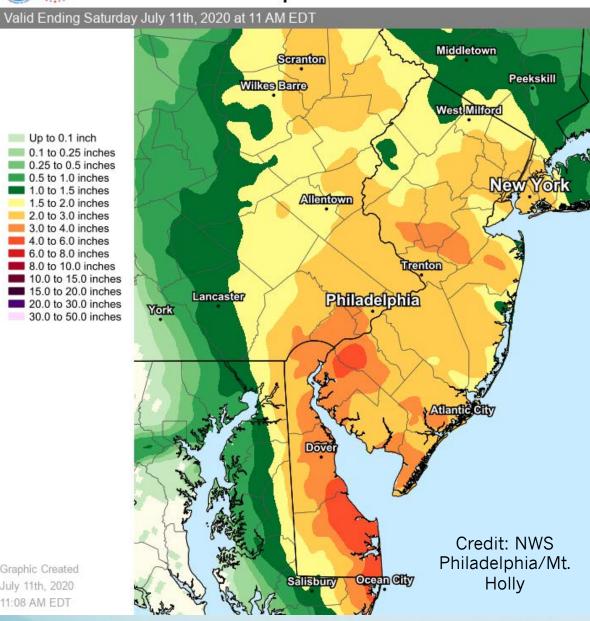


July Flash Flooding

Northern suburbs of Philadelphia - 3-6 inches of rain in 2 hours



Observed Precipitation



Tropical Storm Fay

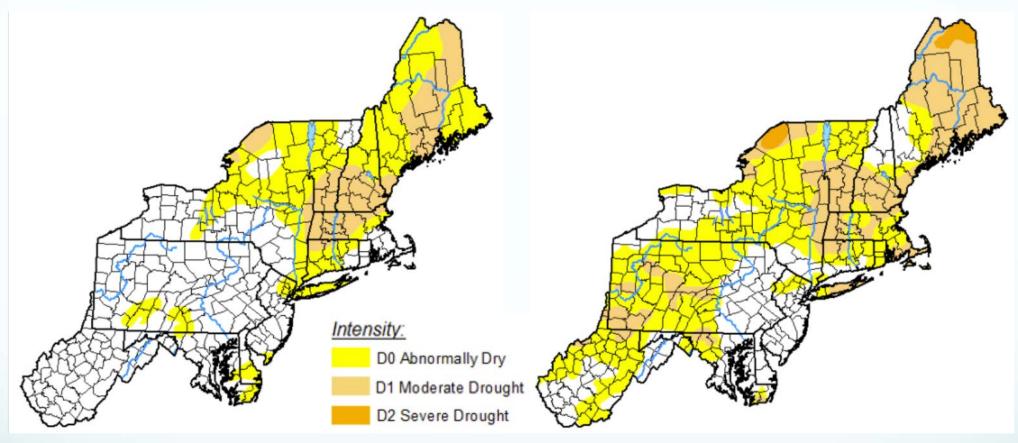
Earliest "F" named storm on record

Greatest rain totals of 3-7 inches

Graphic Created July 11th, 2020 11:08 AM EDT

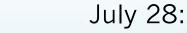


Drought Monitor



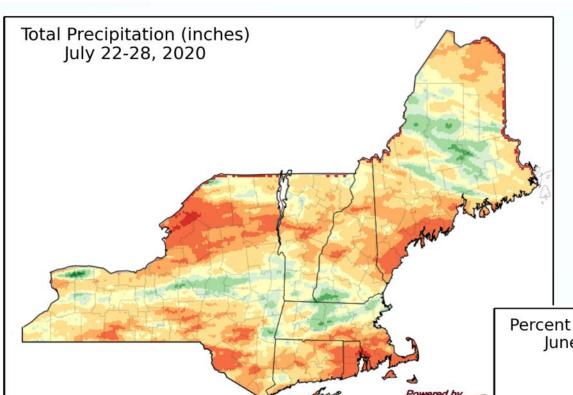
June 30:

14% of the region was in a moderate drought31% was abnormally dry

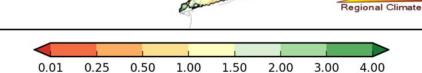


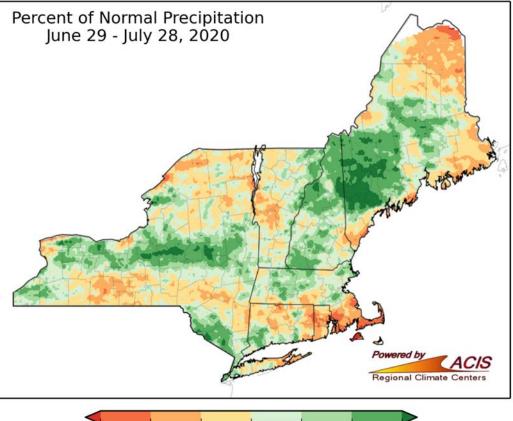
29% of the region was in a moderate or severe drought 42% was abnormally dry



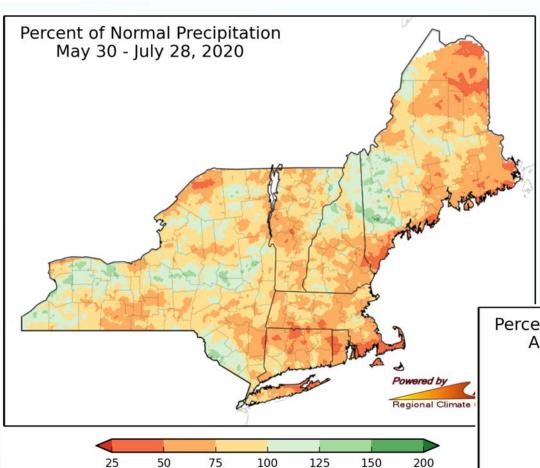


Precipitation

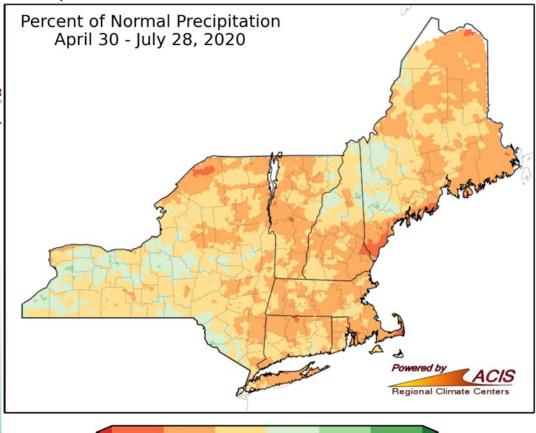








Precipitation





Precipitation

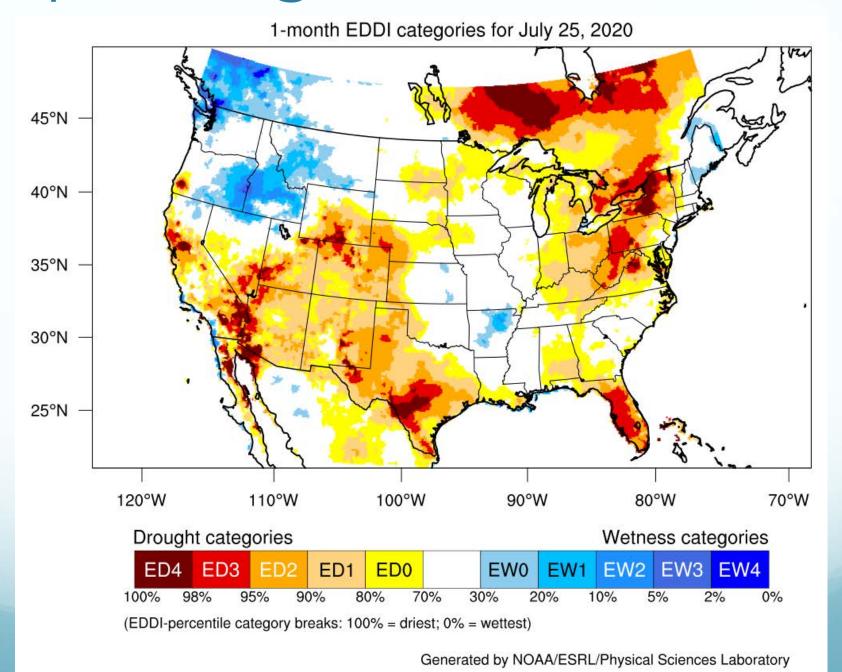
Accumulated Precipitation Departure from Normal

Green/black diamonds represent subsequent/missing values

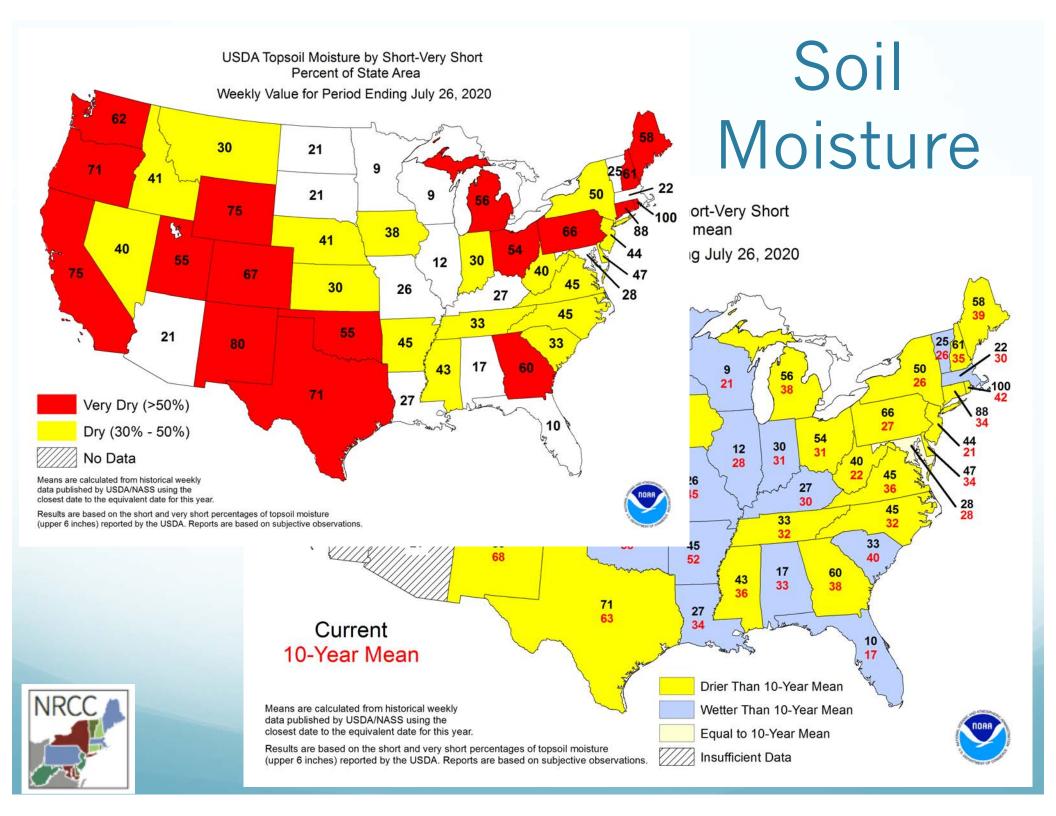




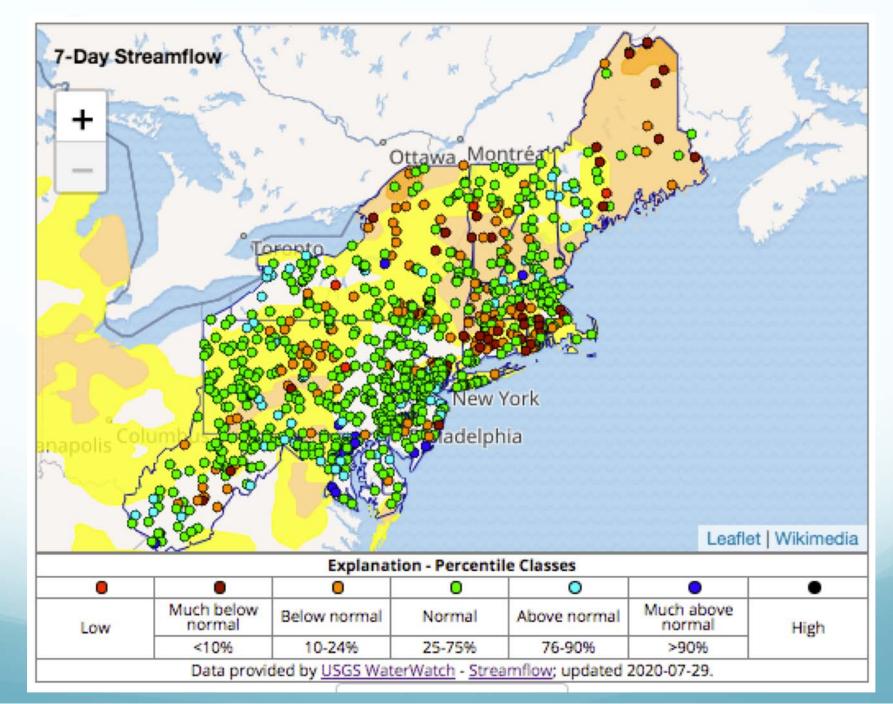
Evap. Drought Demand Index





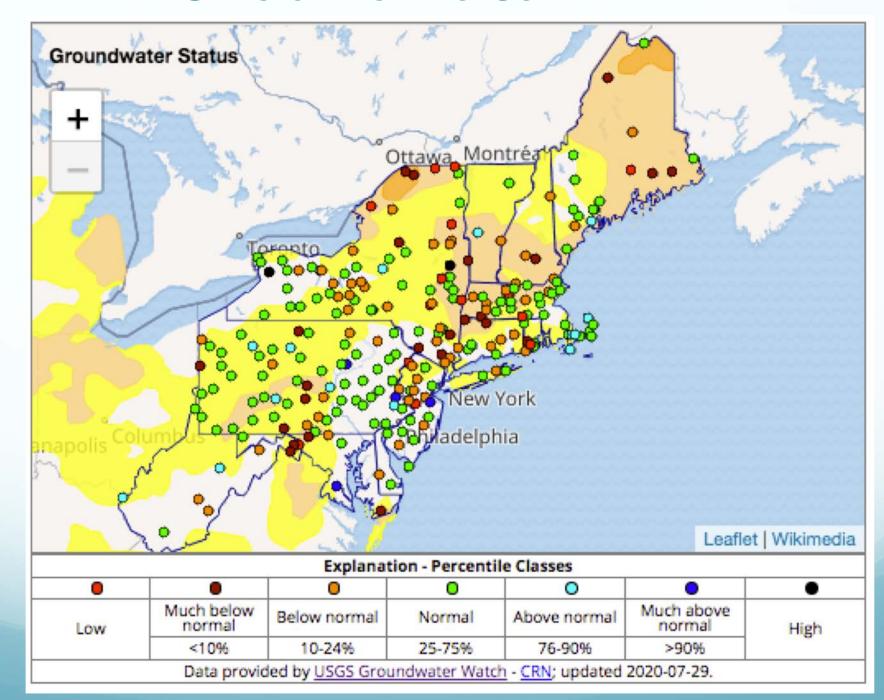


Streamflow





Groundwater



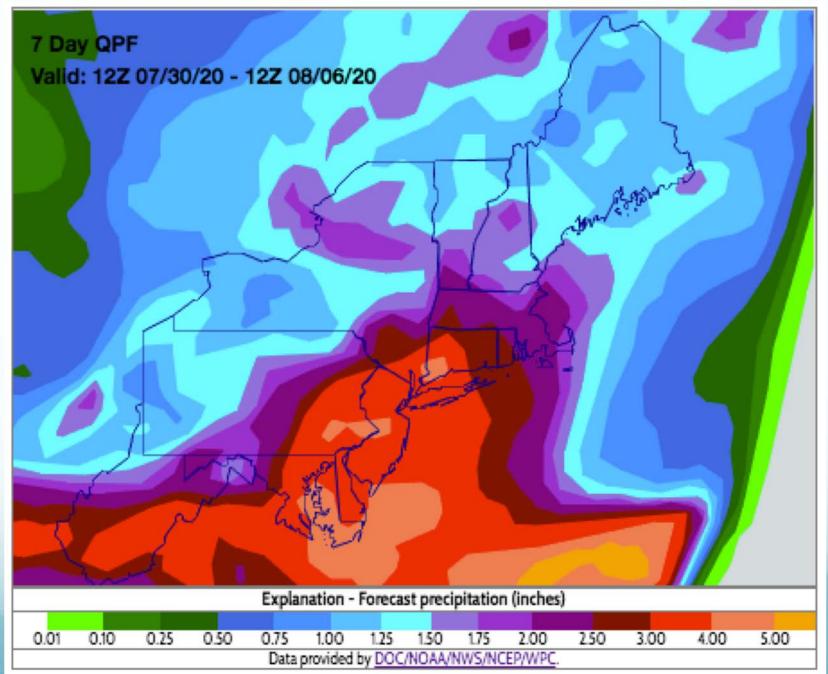


Impacts

On July 2, the water level of Lake Vermont officials Some Maine farmers noted that Champlain at Burlington, VT, was reported a record crops such as corn were behind around 95 feet, more than a foot number of calls about schedule. below normal and a level more black bears in June due typical of mid-to-late August. in part to dry conditions reducing the bears' food In northern, central, supply. Dry conditions helped the and western New York. browntail moth caterpillar, some crops continued to which defoliates trees and experience moisture stress, causes a skin rash, to with slow growth of corn, spread farther into central soybeans, and hay. In a few Maine. locations, corn is curling and turning blue. As of July 8, water restrictions were in place for 117 water systems in New Hampshire. As of June 30, water levels of Aquarion's Greenwich and Substantial rainfall over the past week in parts of Bridgeport, CT, reservoirs were Massachusetts improved the condition of crops and at or below their 2016 levels. contributed to fewer wildfires ignited by lightning.

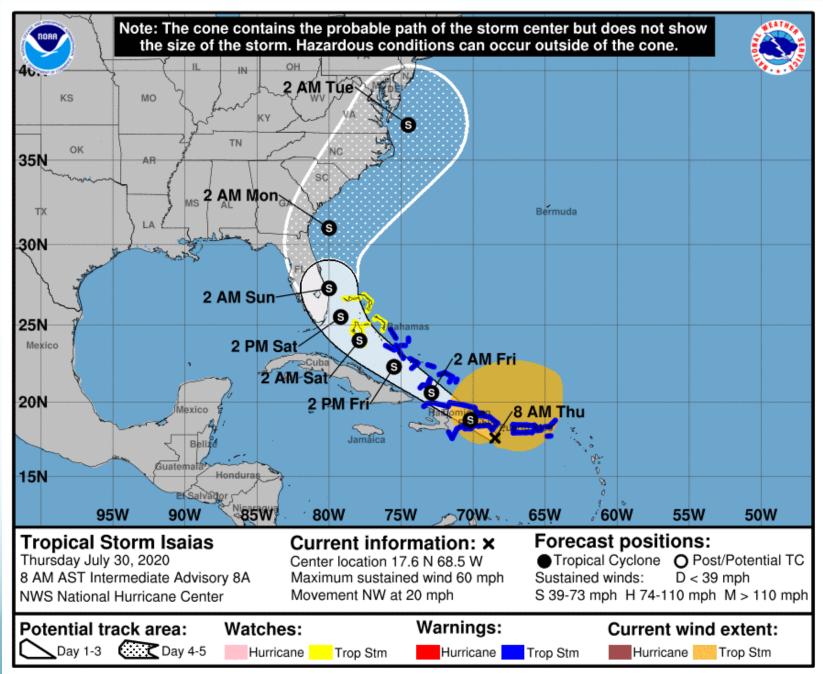


Precipitation Forecast



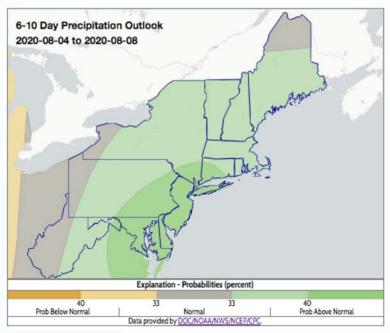


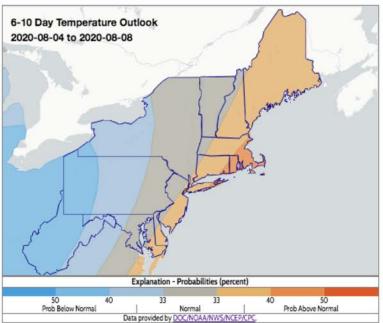
Precipitation Forecast

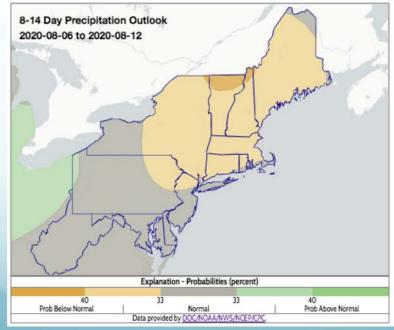


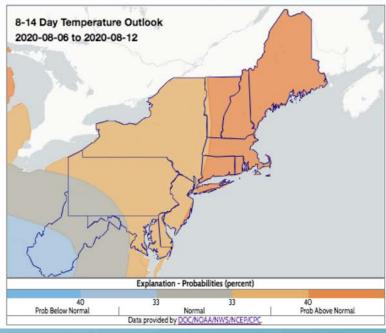


Short-term Outlooks



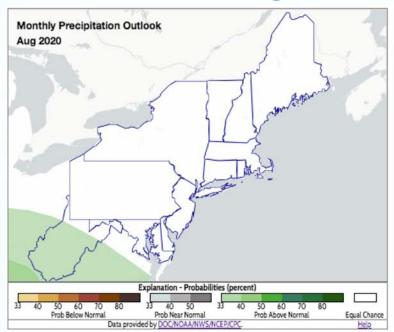


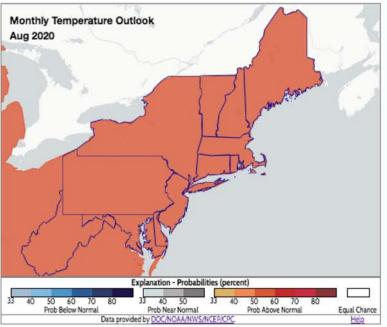


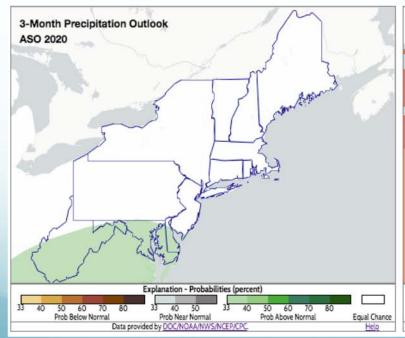


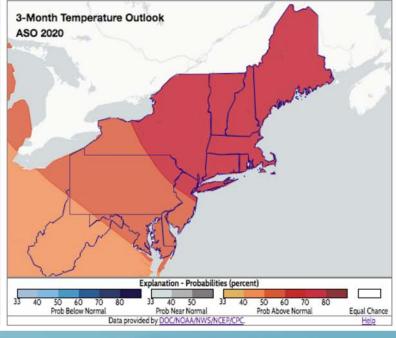


Monthly & 3-Month Outlooks











Contact Information

- nrcc@cornell.edu
- 607-255-1751

Upcoming Webinars

- Thursday, August 27 at 9:30am
 - Hurricane Outlook & Season Update
- Tuesday, September 29 at 9:30am
 - earth system models and applications for climate and marine fisheries
- Thursday, October 29 at 9:30am
 - Drought projects



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