August Conditions & Northeast DEWS Discussion

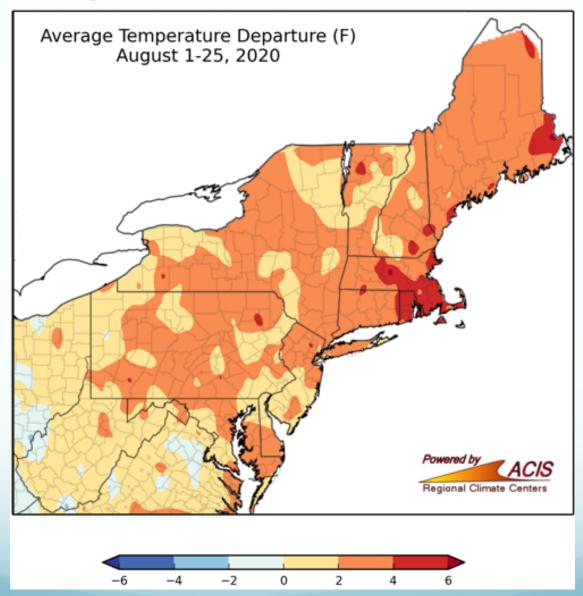
By: Jessica Spaccio, Climatologist Northeast Regional Climate Center







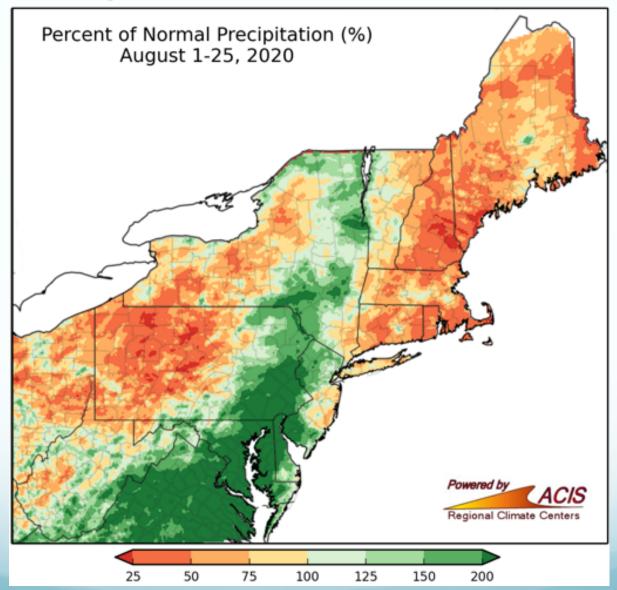
August Temperatures



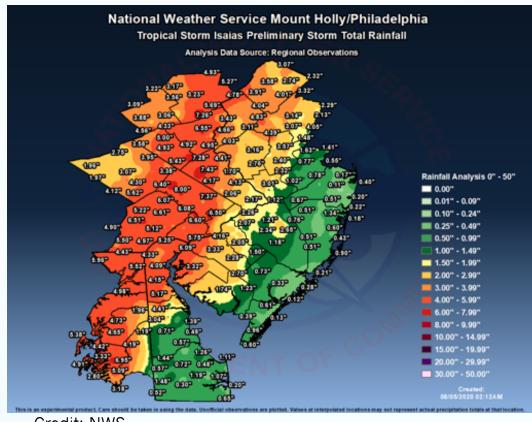


From near normal to more than 4°F above normal

August Precipitation







Tropical Storm Isaias August 4th

Credit: NWS Philadelphia/Mt. Holly

- Earliest "I" named storm on record
- Greatest rain totals of 4-9"
- Allentown, PA had wettest August day with 4.92" of rain
- Significant flooding, especially in southeast Pennsylvania



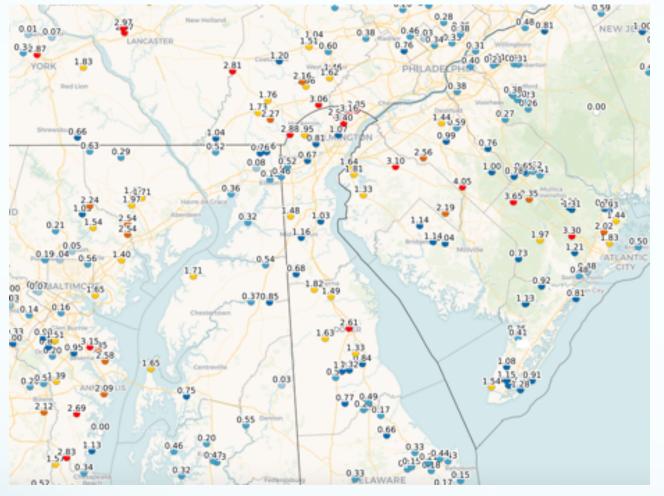


Tropical Storm Isaias August 4th

Credit: NWS AKQ

- 16 tornadoes (9 in MD, 3 in DE, 2 each in PA and NJ, and 1 in CT)
- In Delaware one tornado was on the ground for over 35 miles, the state's longest tornado track on record.
- Storm's highest wind gusts were 60–78 mph; Mt. Washington had its highest August wind gust of 147 mph.

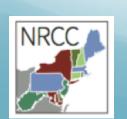




August Flash Flooding

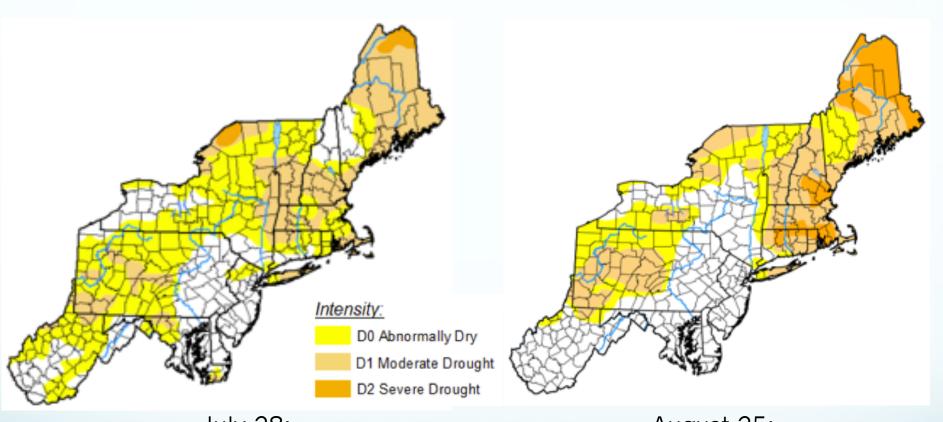
Credit: CoCoRaHS

On August 7 Winterthur, DE, had 4.11 inches of rain in an hour (1.03 inches in five minutes), making it a 1,000-year storm event. Northern Delaware experienced some of its worst flash flooding in at least 15 years. (Reported by Dan Leathers, DE State Climatologist)



In southeast Pennsylvania - Chester Creek had one of its five highest water levels on record for the second time in less than a week.

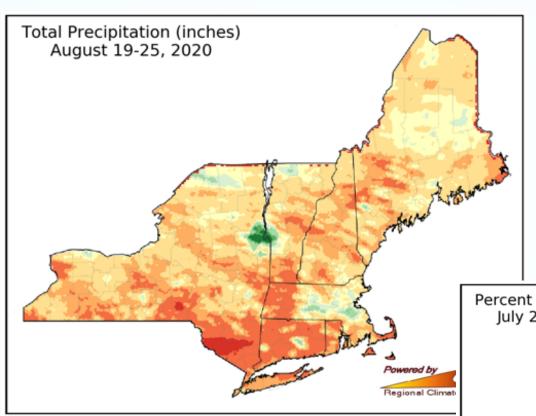
Drought Monitor



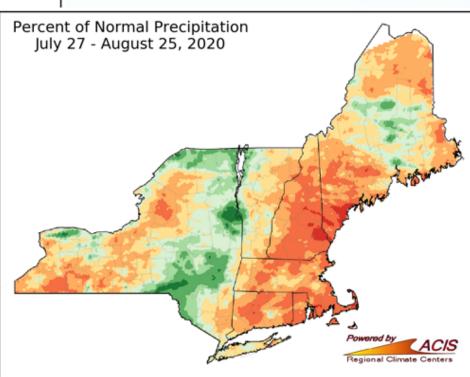
July 28: 29% of the region was in a moderate or severe drought 42% was abnormally dry

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August 25: 37% of the region was in a moderate or severe drought 23% was abnormally dry



Precipitation



100

125

150

200

50

75



0.25

0.01

0.50

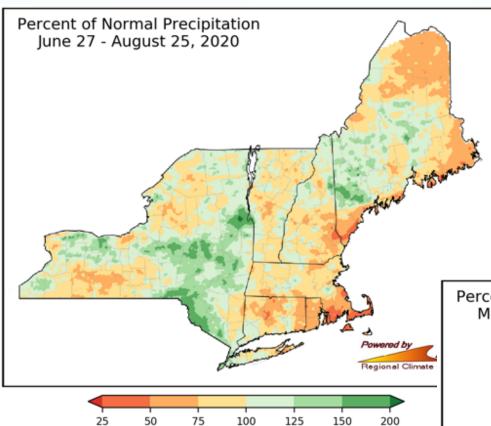
1.00

1.50

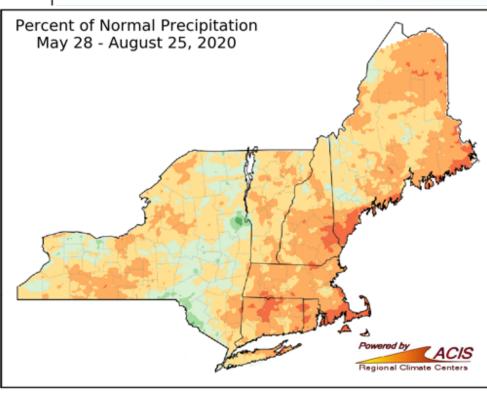
2.00

3.00

4.00

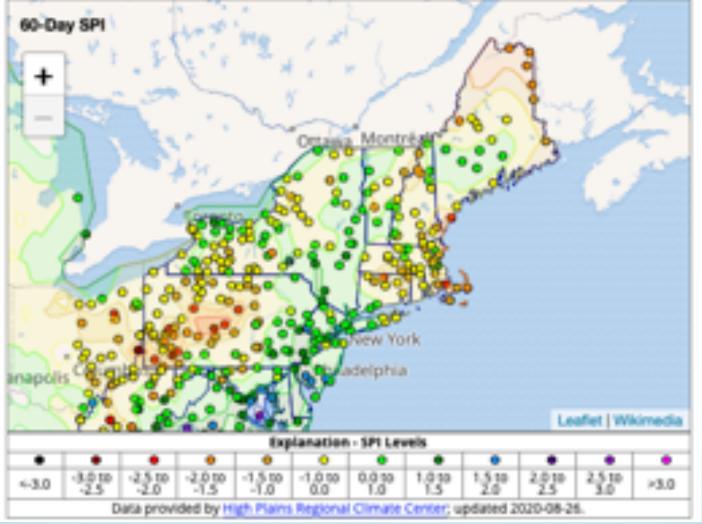


Precipitation



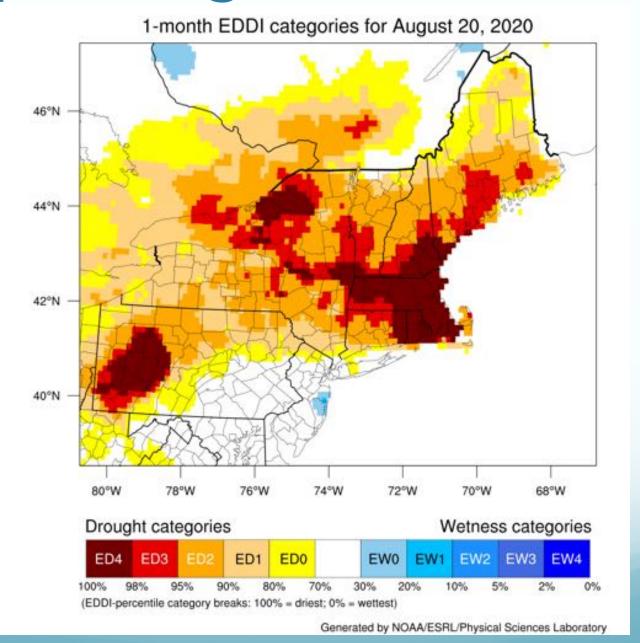


Standardized Precip Index

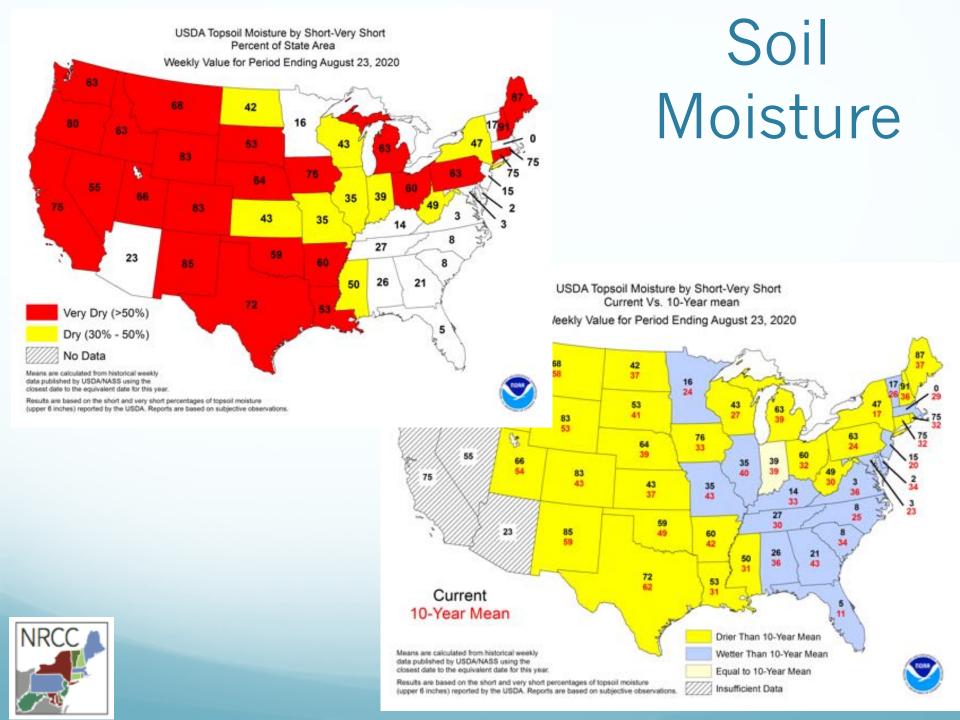




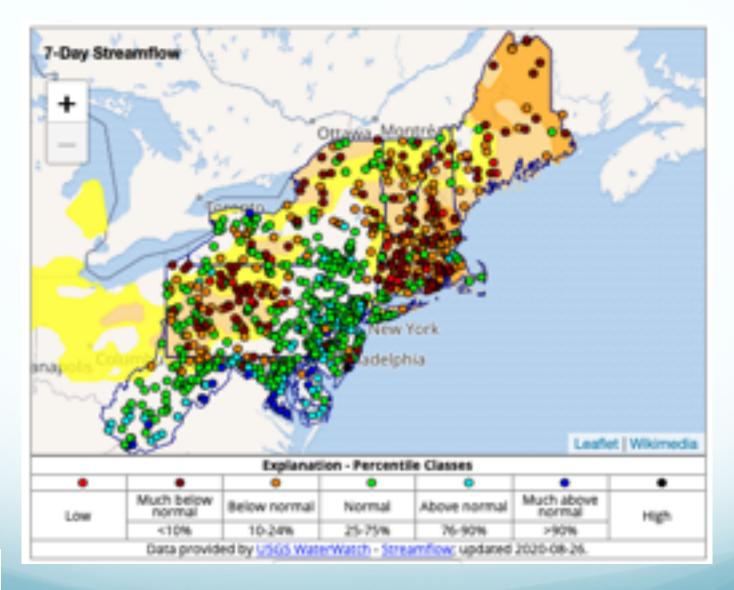
Evap. Drought Demand Index





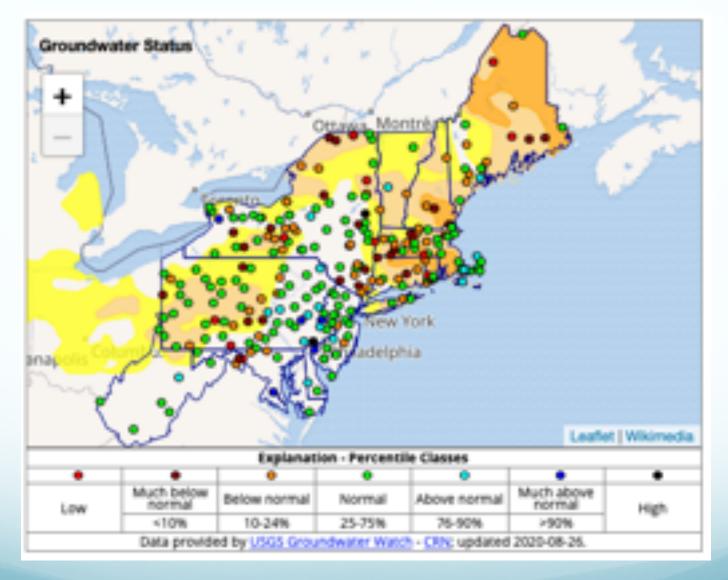


Streamflow





Groundwater



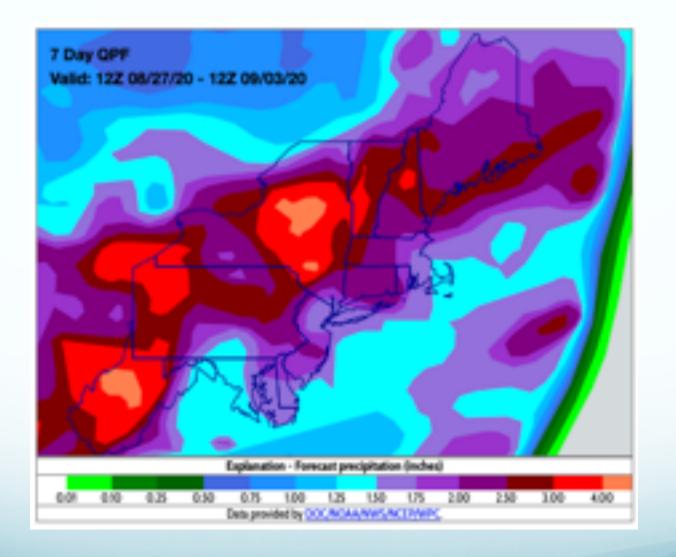


Impacts

- Elevated fire risk in New England
- Water restrictions in place for numerous locations in Massachusetts, New Hampshire and several locations in Connecticut.
- Some shallow wells in Downeast Maine went dry.
- Some farmers are irrigating to keep crops growing. Some crop losses in non-irrigated fields.
- Smaller-sized apples reported in New England
- Leave turning yellow/brown and dropping earlier than usual.
- Brown yards
- Fewer mosquitos in Massachusetts.

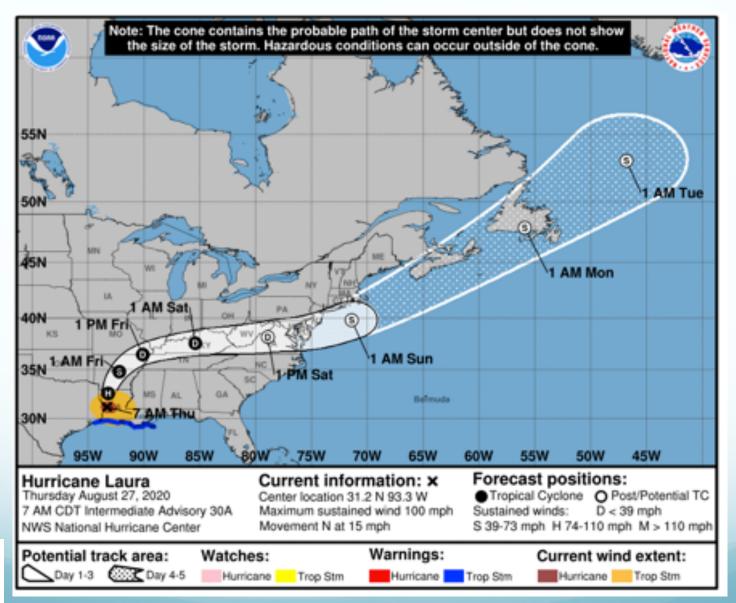


Precipitation Forecast



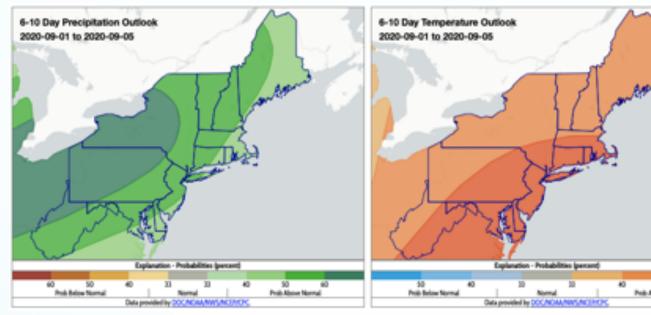


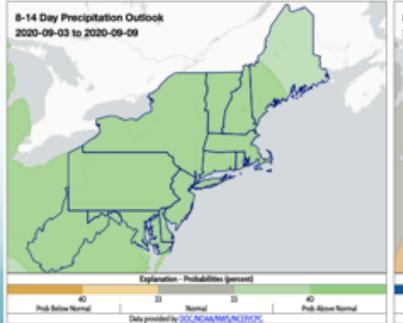
Precipitation Forecast

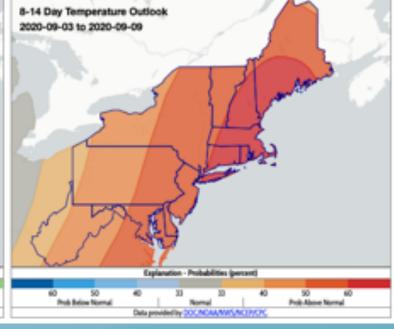




Short-term Outlooks

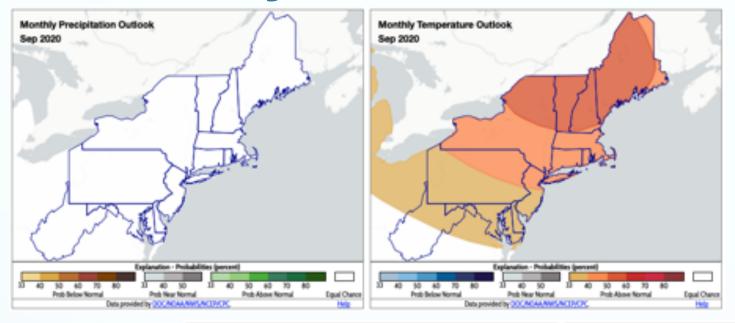


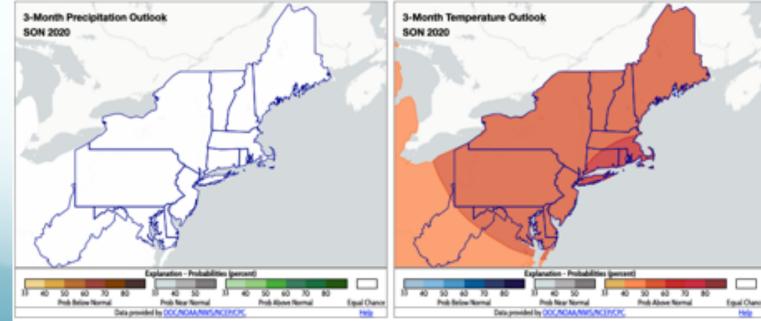






Monthly & 3-Month Outlooks







Contact Information

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

Upcoming Webinars

- Tuesday, September 29 at 9:30am
 - Earth system models and applications for climate and marine fisheries
- Thursday, October 29 at 9:30am
 - Drought projects
- Thursday, November 19 at 9:30am
 - El Niño forecasts for the 2020-21 season



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