U.S. Drought Monitor Maps

Jessica Spaccio, Climatologist







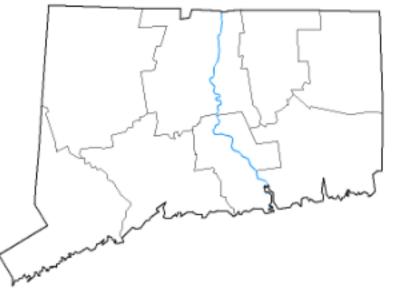


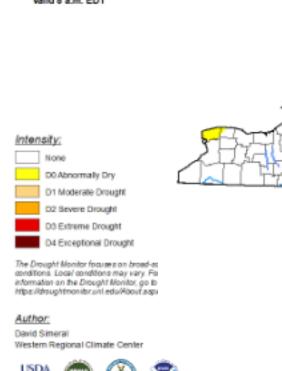
U.S. Drought Monitor Northeast DEWS

September 7, 2021 (Released Thursday, Sep. 9, 2021) Valid 8 a.m. EDT

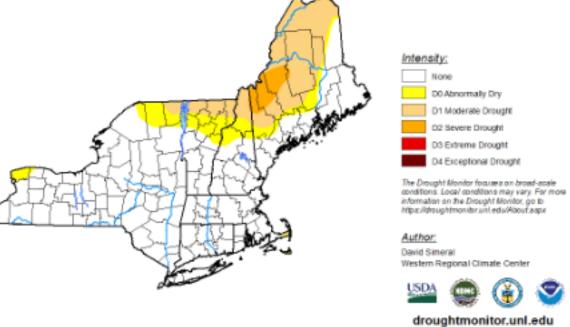
U.S. Drought Monitor
Connecticut

September 7, 2021 (Released Thursday, Sep. 9, 2021) Valid 8 a.m. EDT





droughtmonitor.unl.edu









Intensity and Impacts

None

D0 (Abnormally Dry)

D1 (Moderate Drought)

D2 (Severe Drought)



 \sim - Delineates dominant impacts

S - Short-term impacts, typically less than 6 months (agriculture, grasslands)

L - Long-term impacts, typically greater than 6 months (hydrology, ecology)

SL - Short- and long-term impacts







Category	Description	Possible Impacts
D0	Abnormally Dry	Short-term dryness slowing planting, growth of crops or pastures Coming out of drought: some lingering water deficits pastures or crops not fully recovered

















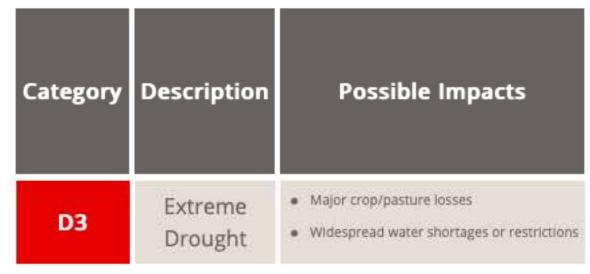


















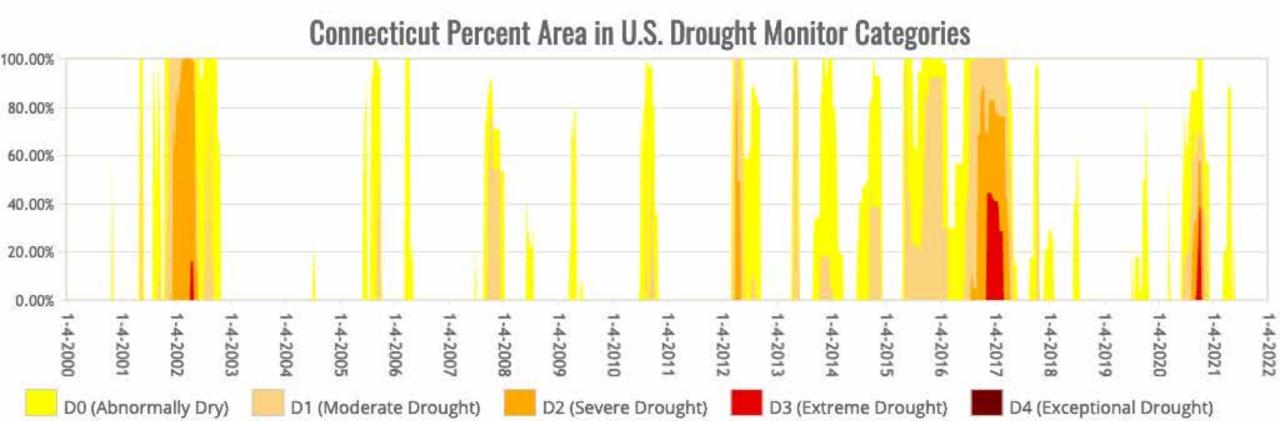












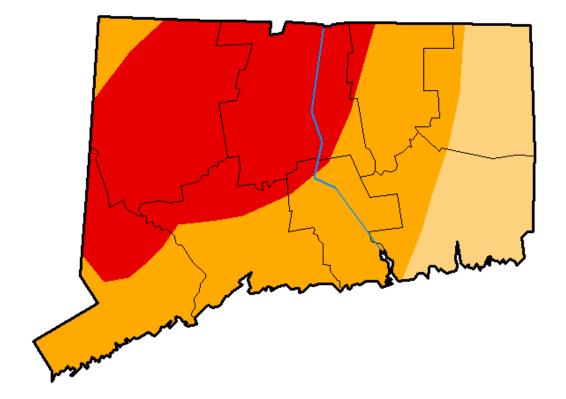






U.S. Drought Monitor

Connecticut



January 3, 2017

(Released Thursday, Jan. 5, 2017) Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Сиптепт	0.00	100.00	100.00	82.57	40.97	0.00
Last Week 12-27-2016	0.00	100.00	100.00	82.57	42.33	0.00
3 Months Ago 10-04-2016	0.00	100.00	100.00	86.25	0.00	0.00
Start of Calendar Year 01-03-2017	0.00	100.00	100.00	82.57	40.97	0.00
Start of Water Year 09-27-2016	0.00	100.00	100.00	68.74	0.00	0.00
One Year Ago 01-05-2016	0.00	100.00	92.26	0.00	0.00	0.00

Intensity:

DO Abnormally Dry D3 Extreme Drought
D1 Moderate Drought
D2 Severe Drought

The Drought Monitor focuses on broad-scale conditions.

Local conditions may vary. See accompanying text summary for forecast statements.

Author:

David Miskus NOAA/NWS/NCEP/CPC















			Ranges				
Category	Description	Possible Impacts	Palmer Drought Severity Index (PDSI)	CPC Soil Moisture Model (Percentiles)	USGS Weekly Streamflow (Percentiles)	Standardized Precipitation Index (SPI)	Objective Drought Indicator Blends (Percentiles)
D0	Abnormally Dry	Short-term dryness slowing planting, growth of crops or pastures Coming out of drought: some lingering water deficits pastures or crops not fully recovered	-1.0 to -1.9	21 to 30	21 to 30	-0.5 to -0.7	21 to 30
D1	Moderate Drought	Some damage to crops, pastures Streams, reservoirs, or wells low, some water shortages developing or imminent Voluntary water-use restrictions requested	-2.0 to -2.9	11 to 20	11 to 20	-0.8 to -1.2	11 to 20
D2	Severe Drought	 Crop or pasture losses likely Water shortages common Water restrictions imposed 	-3.0 to -3.9	6 to 10	6 to 10	-1.3 to -1.5	6 to 10
D3	Extreme Drought	Major crop/pasture losses Widespread water shortages or restrictions	-4.0 to -4.9	3 to 5	3 to 5	-1.6 to -1.9	3 to 5
D4	Exceptional Drought	Exceptional and widespread crop/pasture losses Shortages of water in reservoirs, streams, and wells creating water emergencies	-5.0 or less	0 to 2	0 to 2	-2.0 or less	0 to 2

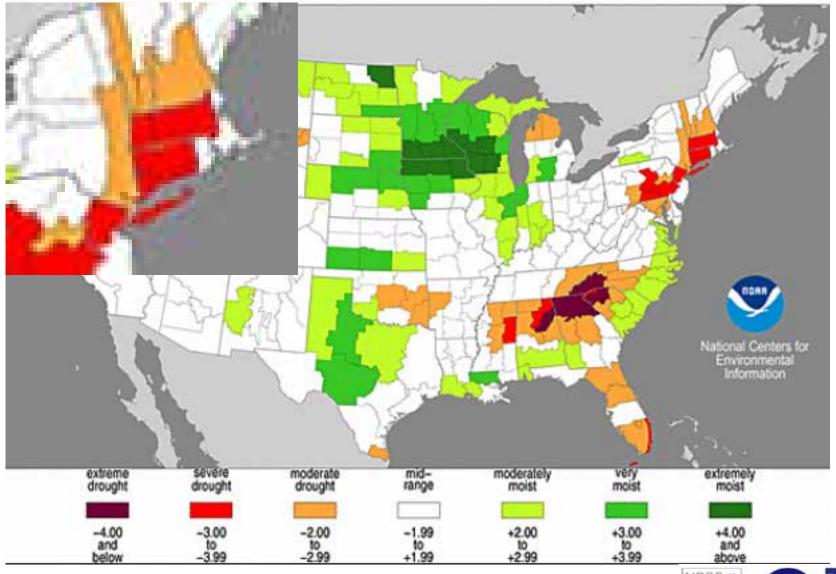






Category	Description	Palmer Drought Severity Index (PDSI)		
D0	Abnormally Dry	-1.0 to -1.9		
D1	Moderate Drought	-2.0 to -2.9		
D2	Severe Drought	-3.0 to -3.9		
D3	Extreme Drought	-4.0 to -4.9		
D4	Exceptional Drought	-5.0 or less		

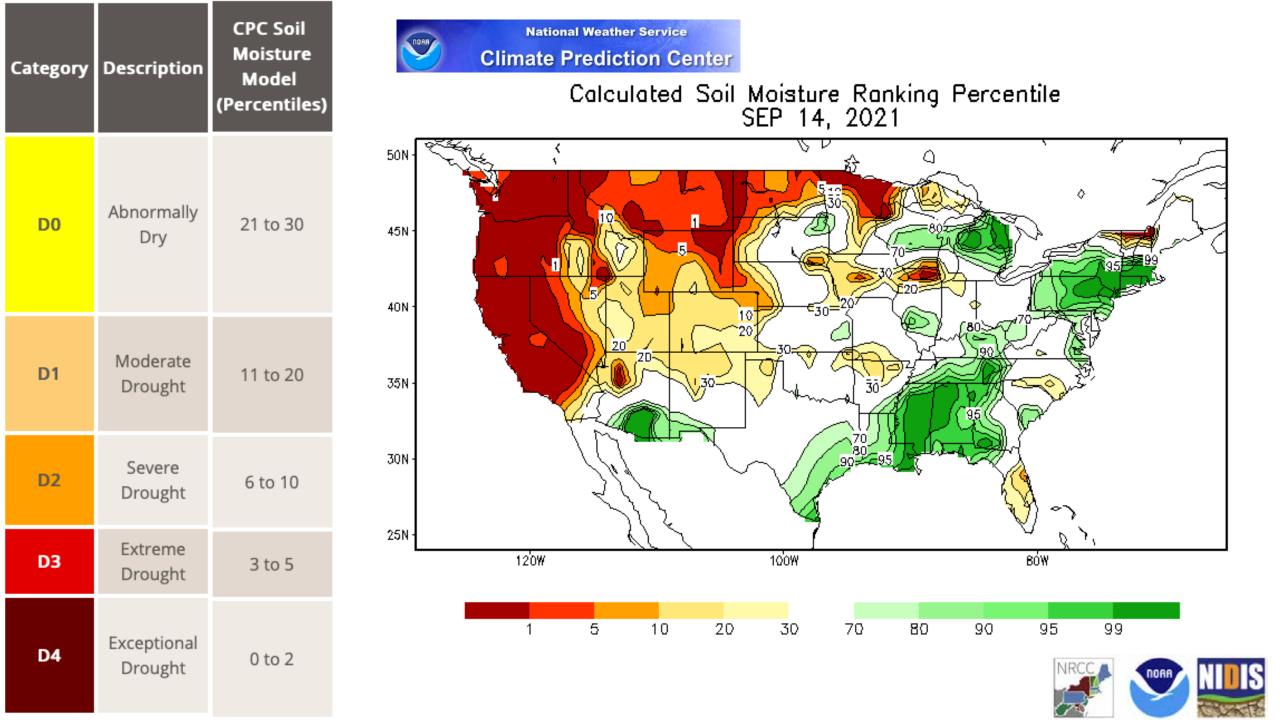
Palmer Drought Severity Index January, 2017

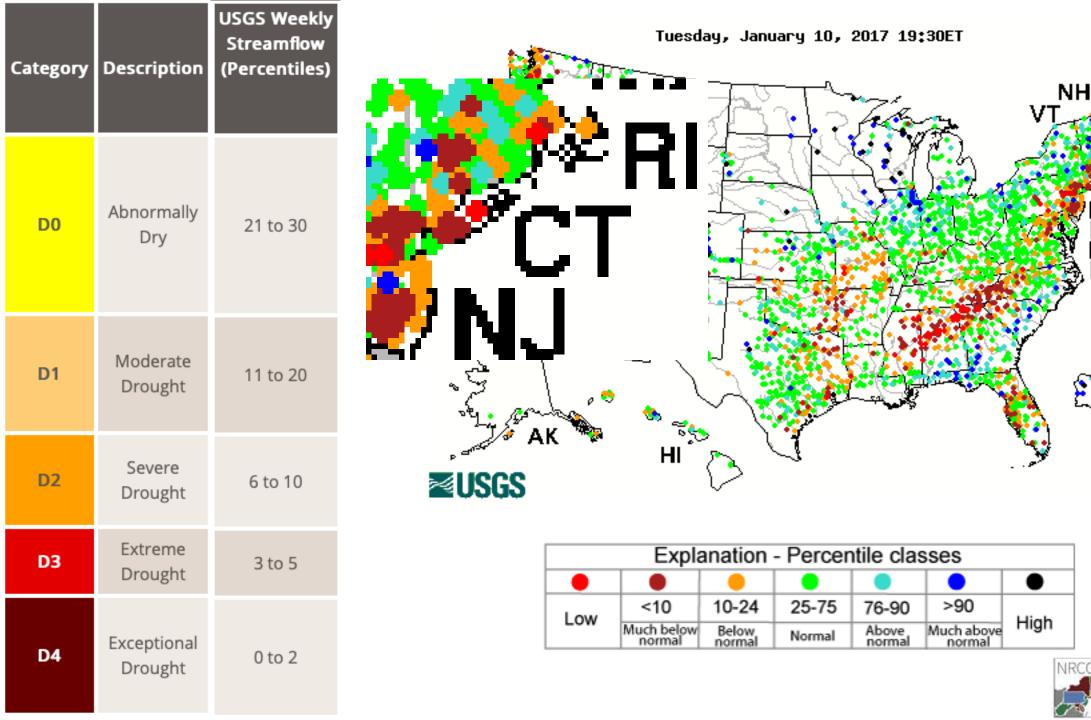














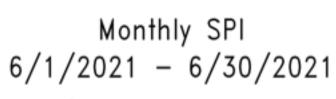
MD MD NJ

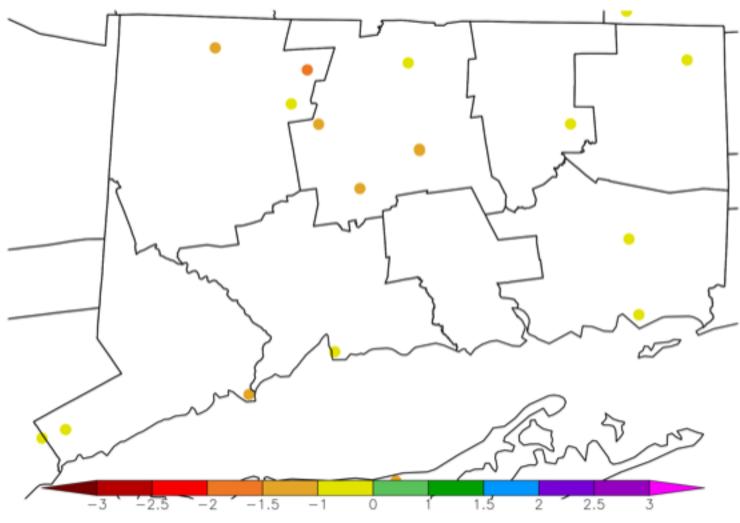
PR-VI





Category	Description	Standardized Precipitation Index (SPI)
D0	Abnormally Dry	-0.5 to -0.7
D1	Moderate Drought	-0.8 to -1.2
D2	Severe Drought	-1.3 to -1.5
D3	Extreme Drought	-1.6 to -1.9
D4	Exceptional Drought	-2.0 or less





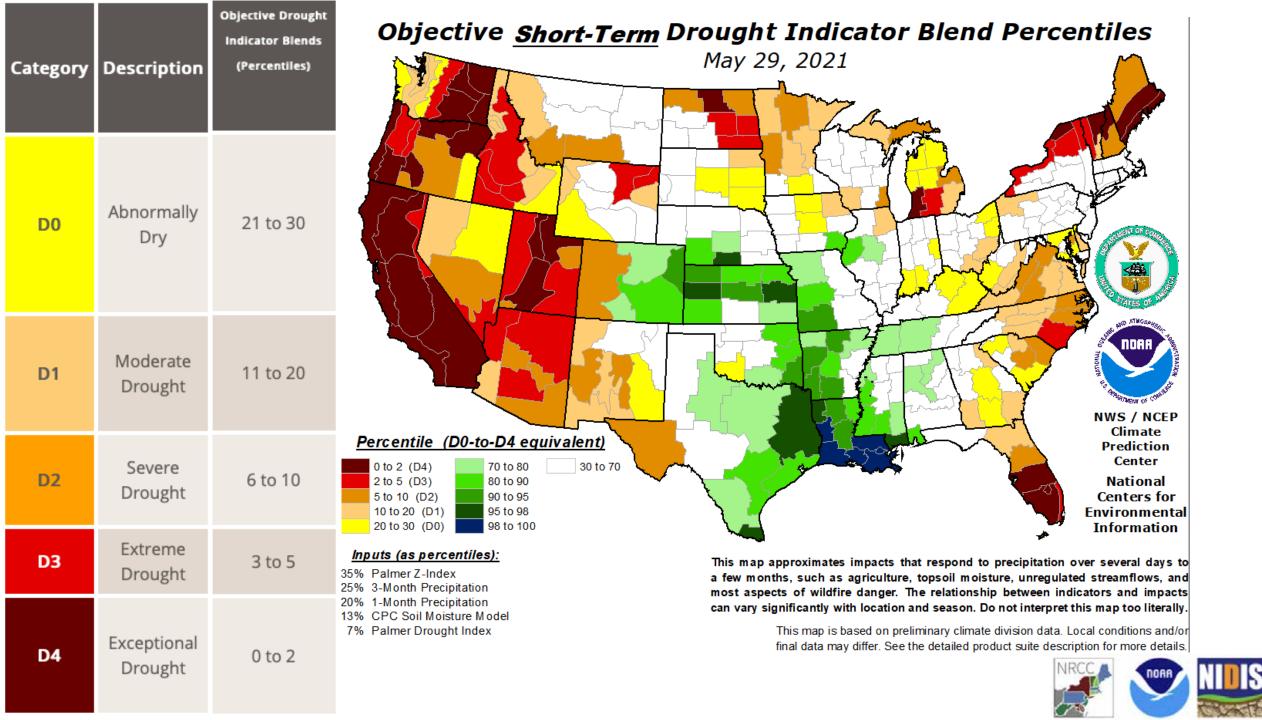
Generated 7/20/2021 at HPRCC using provisional data.

NOAA Regional Climate Centers

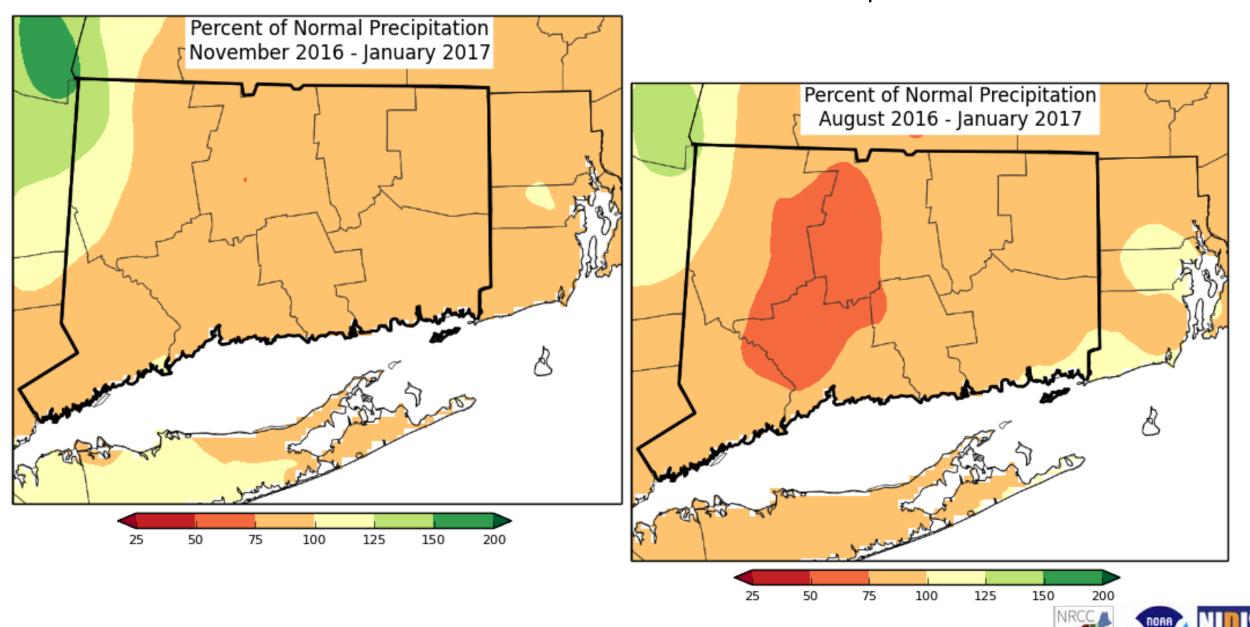




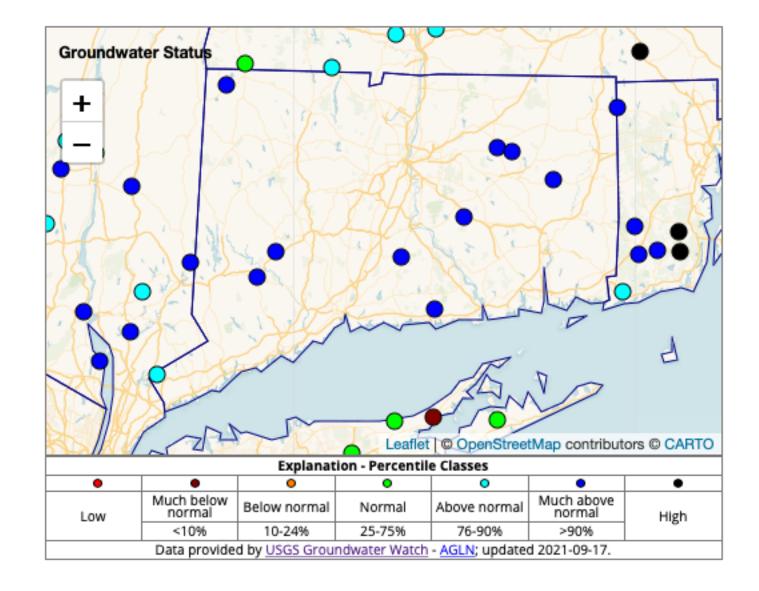




3 & 6 Month Percent of Normal Precipitation



Groundwater



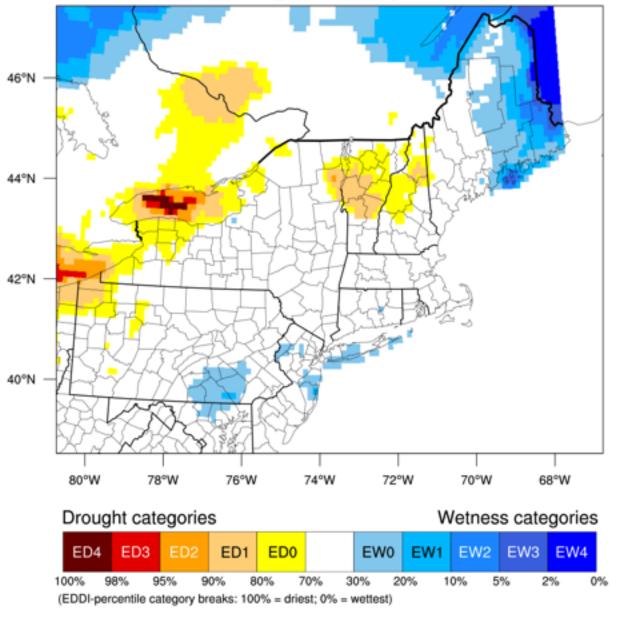






EDDI – Evaporative Demand Drought Index

1-week EDDI categories for September 10, 2021







Local Impacts

Northeast DEWS Google Group

- Place to compile local impacts and have internal discussion. Recommendations are given to the DM author.

From NY: In northern, central, and western New York, some crops continued to experience moisture stress, with slow growth of corn, soybean, and hay. In a few locations, corn is curling and turning blue.

From MA: "We also put more emphasis on groundwater on the Cape given that it is driven by groundwater. So we see the great bumps in streamflow but also see the recession because gw hasn't recovered."

From NH: "in Shelburne, the water levels are among the lowest recorded for this time of year, with levels having dropped since July."

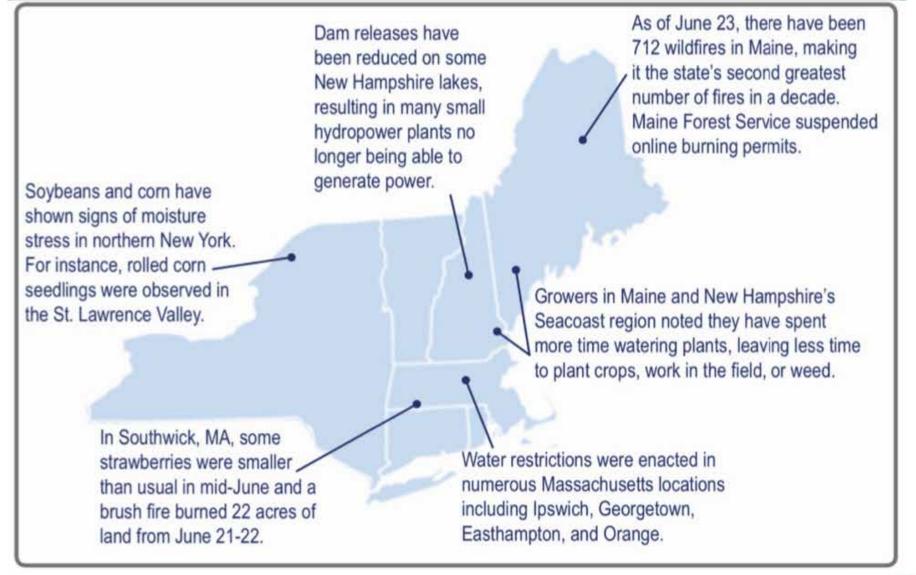
from Maine Emergency
Management Agency noted
northern Maine had seen
"impacts to crops, including
hay, potatoes, wheat and
barley as well as an increase in
invasive species due to the lack
of rain..."







Local Impacts









Potential Impacts on Water Utilities

Operational Impacts

- Loss of water pressure and water supply
- Poor water quality from the source that may require additional treatment to meet drinking water standards
- Inability to access alternative and supplementary water sources because of high demand by and competition from other users
- Increased customer demand
- Increased costs and reduced revenues related to responding to drought impacts.

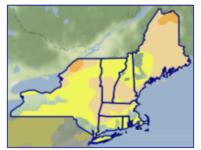








Northeast DEWS Dashboard

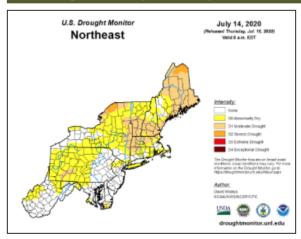


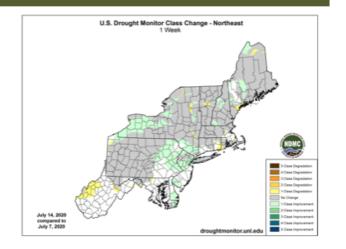
Click a state to zoom maps below

Drought Status Update

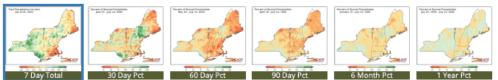
July 16, 2020 - Enough precipitation fell during the past week to prevent further deterioration in many areas and improve conditions in some areas. Many locations did not see their drought status change, but there were slight improvements in drought conditions in small portions of northwestern/western Maine, southwestern New Hampshire, and northwestern New York. The most notable change was in abnormal dryness, which is eased in parts of western/southeastern New York, western Connecticut, northern New Hampshire, and western Maine. However, moderate drought expanded in coastal Maine, while abnormal dryness expanded in eastern Connecticut and southern Rhode Island. The U.S. Drought Monitor released on July 16 showed 42% of the Northeast DEWS region in a

▲ US Drought Monitor (updated weekly)

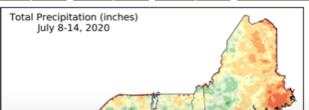




▲ Last USDM Week (ending 2020-7-14) ACIS Precipitation Maps



http://nedews.nrcc.cornell.edu











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