

Surface Reservoir Capacity Measurements and Trends

8/19/2022 Update

USDM Adds D3 – Extreme Drought Classification to Eastern CT!

Thirty-four surface water systems measure their reservoir capacities weekly and report the readings to the Drinking Water Section (DWS). The attached table summarizes the most recent measurements in percent full and shows the week-to-week trend of their capacities.

Key takeaways:

$\geq 100\%$ of Normal $n=34$

7

Change since last week:

-6

State Average

78.5 %

Last week:

82.2%

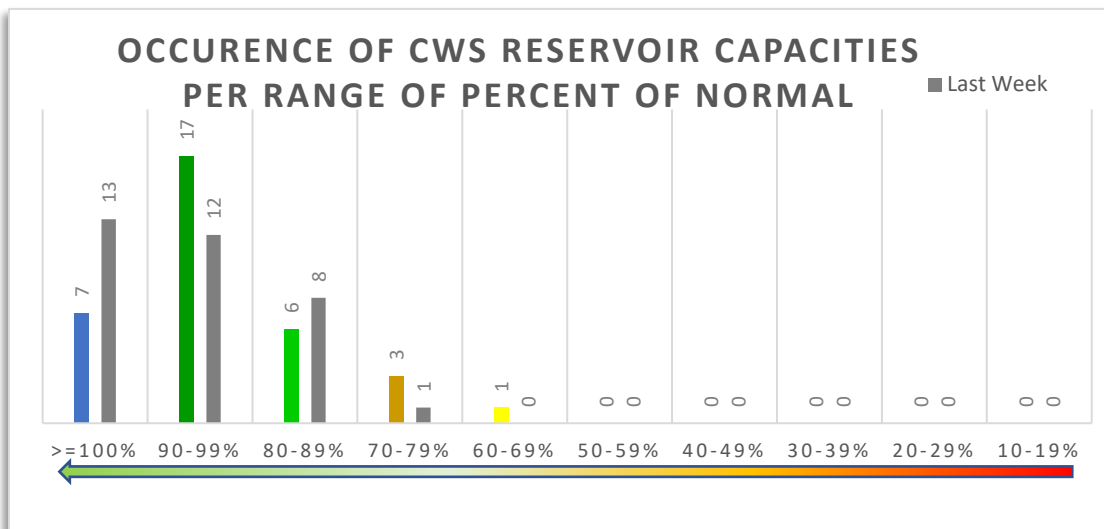
Average Percent of Normal

92.8%

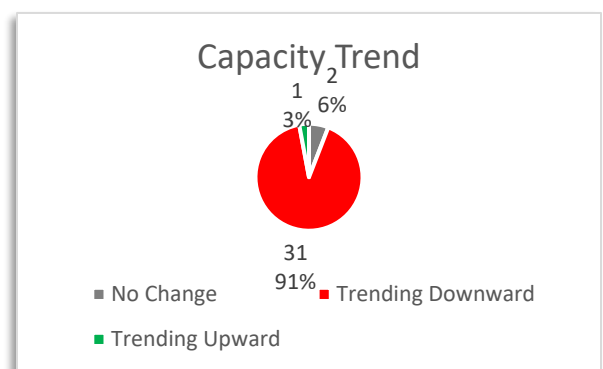
Last week:

95.3%

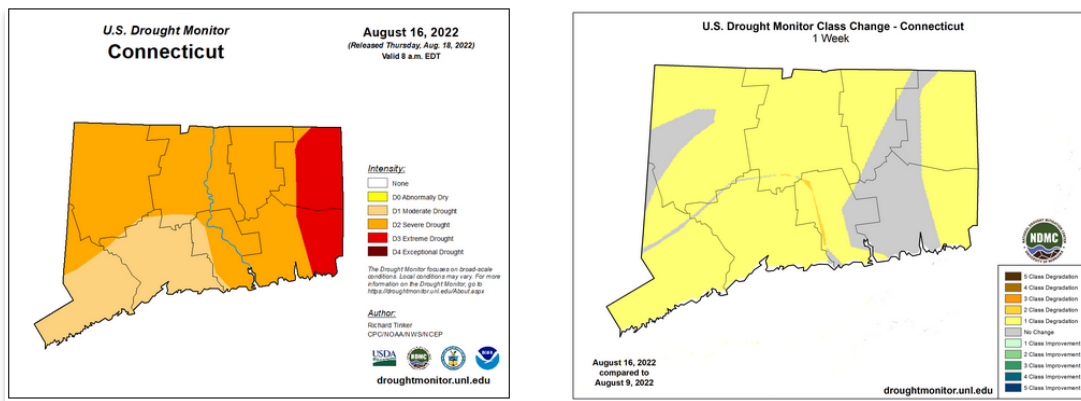
- 2 reservoir systems have reported that they are currently at 100% full (-1 since last week).



- The gray bars indicate last week's measurements and the colored bar is the current measurement. Under normal capacities, the graph above would have all of the systems in the $\geq 100\%$ of normal column ($n=34$).
- 1 system's short-term week to week trend is upward (-1 since last week).** 31 systems are trending downward in capacity from their previous measurements (+1 since last week). 2 systems have had no change in capacity (-2 since last week).

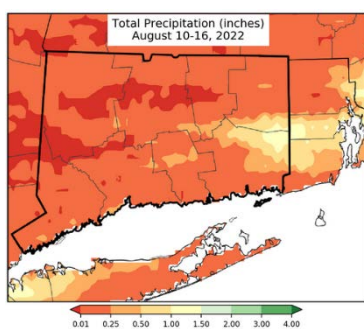


- Three systems have reported they are in the first stage of their drought plan. Several systems are requesting voluntary and mandatory water use conservation.
- US Drought Monitor: – Added D3 – Extreme Drought and expanded both D1- Moderate Drought and D2 Severe Drought in CT since last week.

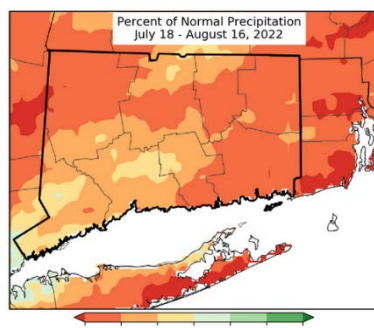


<https://droughtmonitor.unl.edu/CurrentMap/StateDroughtMonitor.aspx?CT>

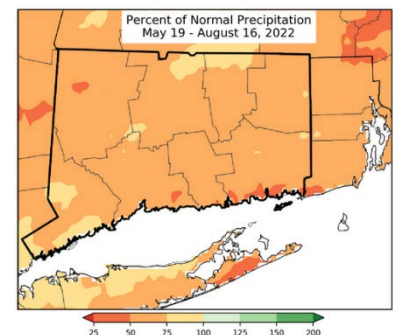
- Between August 10th and August 12th, the state experienced trace amounts of rain across the state with isolated pockets of rain from 0.5 to 1.5 inches. But, most of the state did not have much rainfall (Map 1). The 30-day Percent of Normal Precipitation map shows below normal precipitation throughout CT (Map 2). For the last 90-days, the state is between 50% and 100% of normal. The majority of CT is between 50% and 75% of normal (Map 3). Drought is present going back to the 6-month timeframe. Streamflow and groundwater continue to indicate much below normal conditions across the state.



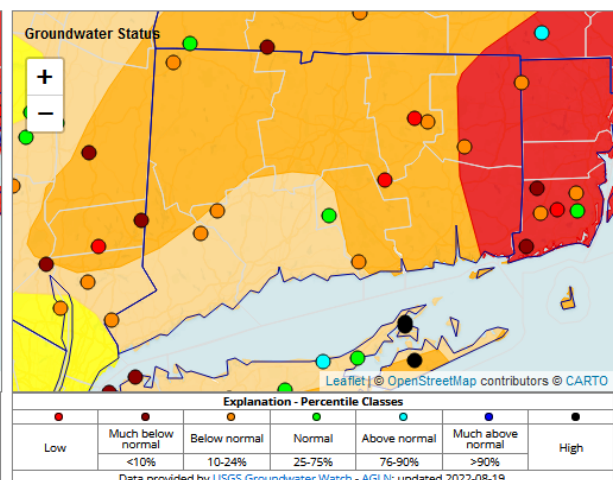
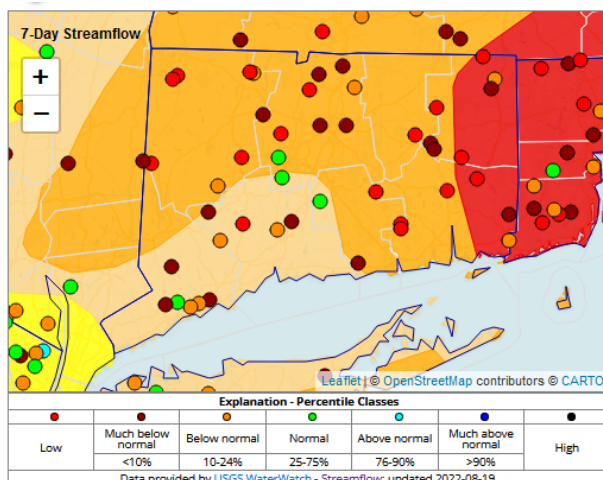
Map 1- 7 Day Total Precipitation



Map 2- 30 Day Percent of Normal Precipitation



Map 3 – 90 Day Percent of Normal Precipitation



PWSID	PWS Name	Most Recent Reading Date	Percent Full	Current Status	Trend	Historical Average	Percent of Normal	Previous Date	Previous Percent Full	County_Served
CT1030011	Norwalk First Taxing District	8/14/2022	61.20	Approaching Trigger Level	↓	76.80	80	8/7/2022	65.90	FAIRFIELD
CT0150011	Aquarion Water Co of CT-Main System	8/7/2022	80.90	No Drought Stage	↓	86.50	94	7/31/2022	83.70	FAIRFIELD
CT0340011	Danbury Water Department	8/14/2022	80.00	No Drought Stage	↓	82.30	97	8/7/2022	82.00	FAIRFIELD
CT0570011	Aquarion Water Co of CT-Greenwich Syster	8/7/2022	77.10	No Drought Stage	↓	78.30	98	7/31/2022	80.90	FAIRFIELD
CT1350011	Aquarion Water Co of CT-Stamford	8/7/2022	76.50	No Drought Stage	↑	77.00	99	7/31/2022	76.30	FAIRFIELD
CT1030021	South Norwalk Electric & Water	8/8/2022	71.30	No Drought Stage	↓	72.00	99	8/1/2022	76.90	FAIRFIELD
CT0090011	Bethel Water Dept	8/7/2022	98.40	No Drought Stage	↓	94.50	104	7/31/2022	100.00	FAIRFIELD
CT0473011	CTWC - Northern Reg-Western System	8/11/2022	65.40	No Drought Stage	↓	82.70	79	8/4/2022	69.10	HARTFORD
CT0770021	Manchester Water Department	8/14/2022	77.40	Approaching Trigger Level	↓	85.90	90	8/7/2022	81.10	HARTFORD
CT0170011	Bristol Water Department	8/14/2022	82.70	No Drought Stage	↓	84.60	98	7/31/2022	89.20	HARTFORD
CT1310011	Southington Water Department	8/13/2022	68.80	No Drought Stage	↓	70.30	98	8/6/2022	73.90	HARTFORD
CT0890011	New Britain Water Department	8/11/2022	72.40	No Drought Stage	↓	73.20	99	8/4/2022	75.00	HARTFORD
CT0640011	Metropolitan District Commission	8/15/2022	89.70	No Drought Stage	↓	89.80	100	8/8/2022	91.00	HARTFORD
CT1220011	Aquarion Water Co of CT-Salisbury Sys	8/7/2022	61.60	No Drought Stage	↓↓↓	89.00	69	7/31/2022	71.90	LITCHFIELD
CT1430011	Torrington Water Company	8/12/2022	62.10	No Drought Stage	↓	78.90	79	8/5/2022	64.70	LITCHFIELD
CT1620011	Winsted Water Works	8/14/2022	86.40	No Drought Stage	↓	95.30	91	8/7/2022	89.30	LITCHFIELD
CT0980011	Aquarion Water Co of CT-Norfolk System	8/7/2022	91.20	No Drought Stage	↓	98.10	93	7/31/2022	94.10	LITCHFIELD
CT1250011	Sharon Water & Sewer Commission	7/30/2022	100.00	No Drought Stage	--	94.30	106	7/23/2022	100.00	LITCHFIELD
CT0830011	Middletown Water Department	8/14/2022	69.60	No Drought Stage	↓	82.90	84	8/7/2022	71.60	MIDDLESEX
CT0261031	CTWC - Shoreline Region-Chester System	8/11/2022	80.20	No Drought Stage	↓	87.50	92	8/4/2022	81.40	MIDDLESEX
CT0830021	Connecticut Valley Hospital	8/8/2022	90.70	No Drought Stage	↓	91.70	99	8/1/2022	91.90	MIDDLESEX
CT0608011	CTWC - Shoreline Region-Guilford System	8/11/2022	61.50	Drought Watch	↓	79.20	78	8/4/2022	66.00	NEW HAVEN
CT1510011	Waterbury Water Department	7/31/2022	77.30	No Drought Stage	↓↓↓	91.20	85	7/26/2022	91.70	NEW HAVEN
CT0800011	Meriden Water Division	8/7/2022	74.10	No Drought Stage	↓	84.10	88	7/31/2022	76.10	NEW HAVEN
CT0880011	CTWC - Naugatuck Region-Central System	8/11/2022	81.60	No Drought Stage	↓	86.70	94	8/4/2022	82.90	NEW HAVEN
CT0930011	Regional Water Authority	8/14/2022	78.00	No Drought Stage	↓	79.90	98	8/7/2022	80.20	NEW HAVEN
CT1480011	Wallingford Water Department	8/5/2022	84.40	No Drought Stage	↓	80.40	105	7/22/2022	87.30	NEW HAVEN
CT1370011	Aquarion Water Co of CT-Mystic	8/7/2022	67.10	No Drought Stage	↓	82.00	82	7/31/2022	76.70	NEW LONDON
CT0580011	Jewett City Water Company	8/8/2022	75.50	No Drought Stage	↓	85.20	89	8/1/2022	78.90	NEW LONDON
CT0950011	New London Dept. of Public Utilities	8/14/2022	62.70	Drought Advisory	↓	68.60	91	8/7/2022	66.10	NEW LONDON
CT1040011	Norwich Public Utilities	8/13/2022	77.50	Water Supply Advisory	↓	85.00	91	8/6/2022	80.00	NEW LONDON
CT0590011	Groton Utilities	8/8/2022	87.30	No Drought Stage	↓	85.80	102	8/1/2022	89.50	NEW LONDON
CT1340011	CTWC - Northern Reg-Stafford System	8/11/2022	96.70	No Drought Stage	↓	95.70	101	8/4/2022	100.00	TOLLAND
CT1630011	Windham Water Works	8/14/2022	100.00	No Drought Stage	--	100.00	100	8/7/2022	100.00	WINDHAM

		78.45				84.57	92.76	Ave Percent of Normal by County		
↑	-Increase since last measurement (less than 10% increase)		Number of systems: Greater than or equal to 100% of Normal Between 90% and 99% of Normal Less than 90% of Normal At 100% Full						95.86 FAIRFIELD	
↑↑	-Increase since last measurement (10% or greater increase)						7		94.00 HARTFORD	
↓	-Decrease since last measurement (less than 10% decrease)						17		87.60 LITCHFIELD	
↓↓	-Decrease since last measurement (10% or greater decrease)						10		91.67 MIDDLESEX	
--	- Same measurement as the previous measurement						2		91.33 NEW HAVEN	
									91.00 NEW LONDON	
									101.00 TOLLAND	