## Connecticut Drought Conditions Report

Monthly Update for July 2023



Interagency Drought Workgroup
August 3, 2023
Regular Meeting

### Surface Reservoir Capacity Measurements and Trends 7/28/2023 Update

US Drought Monitor Continues to Make Improvement Across CT Due to Wet July!

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**:

>= 100% of Normal n=34  $\frac{30}{100}$  Change since last week:

State Average Percent Full

95.8 %

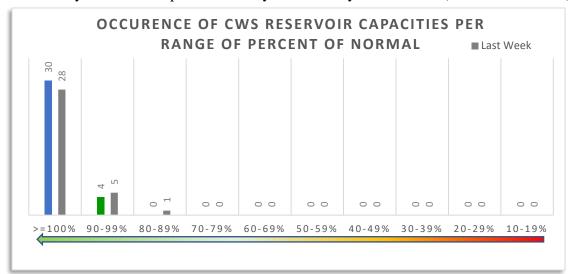
Last week:
94.3%

Average Percent of Normal

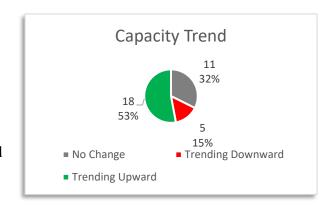
106.7%

Last week:
104.9%

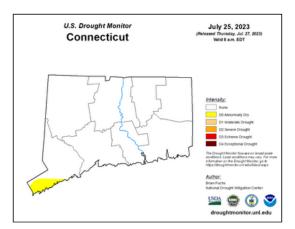
• 15 reservoir systems have reported that they are currently at 100% full (+3 since last week).

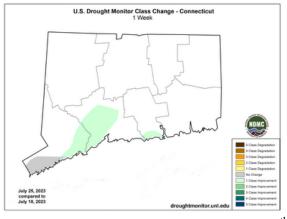


- The gray bars indicate last week's measurements and the colored bar is the current measurement. In non-drought conditions, the graph above would have all of the systems in the >=100% of normal column (n=34).
- 18 system's short-term week to week trend is upward (No change since last week). 5 systems are trending downward in capacity from their previous measurements (-3 since last week). 11 systems have had no change in capacity (+3 since last week).
- Aquarion Greenwich System remains in their 1<sup>st</sup> drought stage – drought advisory.

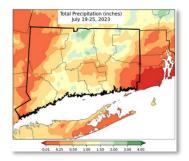


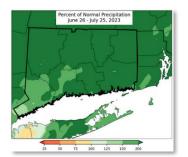
- **US Drought Monitor**: –Removed the D0 Abnormally Dry areas in portions of Fairfield, New Haven and Middlesex Counties. Only SW Fairfield County remains in D0.
- https://droughtmonitor.unl.edu/CurrentMap/StateDroughtMonitor.aspx?CT

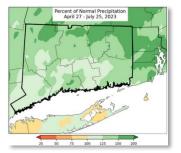




• Last USDM week, CT received trace amounts to over 2 inches of precipitation between July 19<sup>th</sup> and July 25<sup>th</sup>. (Map 1). The 30-day Percent of Normal Precipitation map shows above normal precipitation for most portions of CT. (Map 2). The long-term trend over the last 90-days shows that CT has improved and rainfall amounts are at or above normal. (Map 3). The 7-Day Streamflow map shows normal to high from major rainfall in New England. Groundwater real time monitoring wells show normal to much above normal levels.

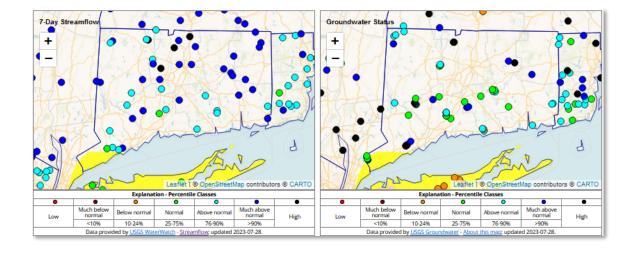






Map 1-7 Day Total Precipitation

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
CT1350011	Aquarion Water Co of CT-Stamford	7/16/2023	78.20	No Drought Stage	<b>1</b>	84.70	92	7/9/2023	74.20	FAIRFIELD
CT0570011	Aquarion Water Co of CT-Greenwich Systen	7/16/2023	84.60	<b>Drought Advisory</b>	<b>1</b>	87.30	97	7/9/2023	81.80	FAIRFIELD
CT0150011	Aquarion Water Co of CT-Main System	7/16/2023	92.80	No Drought Stage	<b>1</b>	91.40	102	7/9/2023	91.10	FAIRFIELD
CT0340011	Danbury Water Department	7/9/2023	90.50	No Drought Stage	<b>1</b>	87.00	104	7/2/2023	90.10	FAIRFIELD
CT0090011	Bethel Water Dept	7/23/2023	99.70	No Drought Stage	<u> </u>	95.40	105	7/16/2023	100.00	FAIRFIELD
CT1030021	South Norwalk Electric & Water	7/24/2023	91.30	No Drought Stage	<b>1</b>	82.10	111	7/17/2023	91.20	FAIRFIELD
CT1030011	Norwalk First Taxing District	7/23/2023	94.70	No Drought Stage		84.60	112	7/16/2023	94.70	FAIRFIELD
CT0890011	New Britain Water Department	7/20/2023	83.40	No Drought Stage	<b>1</b>	80.60	103	7/13/2023	80.40	HARTFORD
CT0170011	Bristol Water Department	7/23/2023	97.50	No Drought Stage	<u> </u>	91.00	107	7/16/2023	99.00	HARTFORD
CT0640011	Metropolitan District Commission	7/17/2023	100.00	No Drought Stage	<b>1</b>	93.40	107	7/10/2023	100.00	HARTFORD
CT0770021	Manchester Water Department	7/23/2023	100.00	No Drought Stage		92.20	108	7/16/2023	100.00	HARTFORD
CT0473011	CTWC - Northern Reg-Western System	7/20/2023	100.00	No Drought Stage		88.40	113	7/13/2023	100.00	HARTFORD
CT1310011	Southington Water Department	7/22/2023	100.00	No Drought Stage		81.80	122	7/15/2023	100.00	HARTFORD
CT1620011	Winsted Water Works	7/16/2023	100.00	No Drought Stage		98.40	102	7/9/2023	100.00	LITCHFIELD
CT0980011	Aquarion Water Co of CT-Norfolk System	7/16/2023	100.00	No Drought Stage		98.50	102	7/9/2023	100.00	LITCHFIELD
CT1250011	Sharon Water & Sewer Commission	7/1/2023	100.00	No Drought Stage		94.50	106	6/24/2023	100.00	LITCHFIELD
CT1220011	Aquarion Water Co of CT-Salisbury Sys	7/16/2023	100.00	No Drought Stage		93.40	107	7/9/2023	100.00	LITCHFIELD
CT1430011	Torrington Water Company	7/16/2023	100.00	No Drought Stage	<b>1</b>	86.00	116	7/2/2023	94.40	LITCHFIELD
CT0830011	Middletown Water Department	6/25/2023	92.30	No Drought Stage	<u> </u>	94.90	97	6/18/2023	100.00	MIDDLESEX
CT0830021	Connecticut Valley Hospital	7/17/2023	100.00	No Drought Stage		91.80	109	7/10/2023	100.00	MIDDLESEX
CT0261031	CTWC - Shoreline Region-Chester System	7/20/2023	100.00	No Drought Stage	<b>1</b>	91.10	110	7/13/2023	99.00	MIDDLESEX
CT0880011	CTWC - Naugatuck Region-Central System	7/20/2023	95.70	No Drought Stage	<b>1</b>	91.00	105	7/13/2023	95.20	NEW HAVEN
CT1510011	Waterbury Water Department	7/16/2023	96.50	No Drought Stage	<b>↑</b>	91.20	106	7/9/2023	92.80	NEW HAVEN
CT0800011	Meriden Water Division	7/16/2023	93.30	No Drought Stage	<b>↑</b>	87.00	107	7/9/2023	86.20	NEW HAVEN
CT1480011	Wallingford Water Department	7/21/2023	92.40	No Drought Stage	<b>1</b>	85.60	108	7/14/2023	92.50	NEW HAVEN
CT0930011	Regional Water Authority	7/23/2023	96.30	No Drought Stage	<b>↑</b>	86.00	112	7/16/2023	96.00	NEW HAVEN
CT0608011	CTWC - Shoreline Region-Guilford System	7/20/2023	100.00	No Drought Stage	1	86.60	115	7/13/2023	91.00	NEW HAVEN
CT0580011	Jewett City Water Company	7/17/2023	96.00	No Drought Stage	<b>↑</b>	90.80	106	7/10/2023	92.10	NEW LONDON
CT0590011	Groton Utilities	7/17/2023	97.70	No Drought Stage	<b>↑</b>	89.70	109	7/10/2023	96.60	NEW LONDON
CT1040011	Norwich Public Utilities	7/22/2023	100.00	No Drought Stage	<b>1</b>	90.20	111	7/15/2023	95.30	NEW LONDON
CT1370011	Aquarion Water Co of CT-Mystic	7/16/2023	100.00	No Drought Stage		89.40	112	7/9/2023	100.00	NEW LONDON
CT0950011	New London Dept. of Public Utilities	7/23/2023	87.70	No Drought Stage	<u> </u>	77.40	113	7/16/2023	88.70	NEW LONDON
CT1340011	CTWC - Northern Reg-Stafford System	7/20/2023	95.90	No Drought Stage	<b>1</b>	98.50	97	7/13/2023	90.20	TOLLAND
CT1630011	Windham Water Works	7/23/2023	100.00	No Drought Stage		100.00	100	7/16/2023	100.00	WINDHAM
	-Increase since last measurement (less than 10% increase) -Increase since last measurement (10% or greater increase)		95.78	Number of systems: Greater than or equal to 19		89.76 mal	<b>106.70</b> 30		103.2 110.0	Normal by County 9 FAIRFIELD 0 HARTFORD

At 100% Full

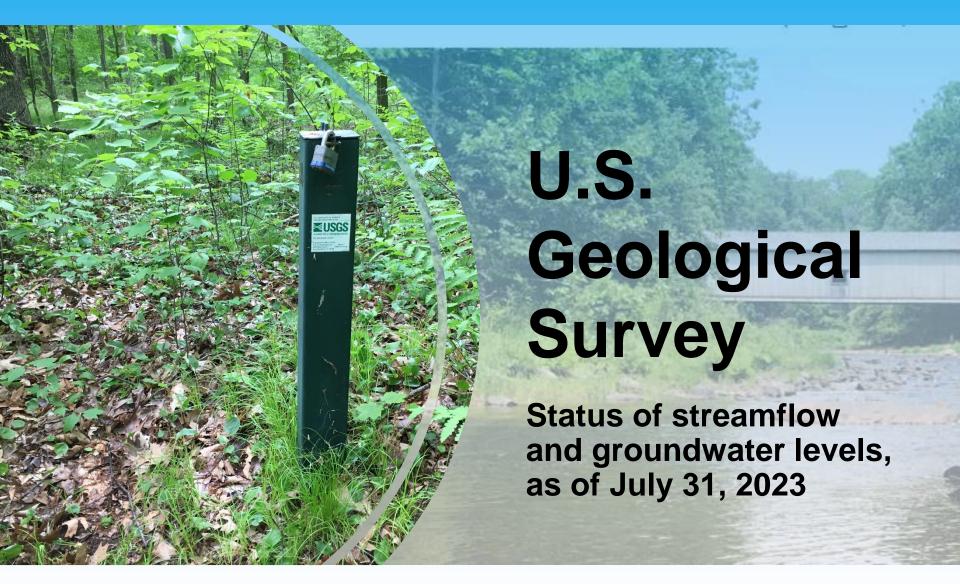
106.60 LITCHFIELD 105.33 MIDDLESEX 108.83 NEW HAVEN 110.20 NEW LONDON 97.00 TOLLAND

 $<sup>\</sup>downarrow$  -Decrease since last measurement (less than 10% decrease)

 $<sup>\</sup>downarrow\downarrow\downarrow$  -Decrease since last measurement (10% or greater decrease) -- - Same measurement as the previous measurement

Between 90% and 99% of Normal Less than 90% of Normal

<sup>15</sup> 





		Number of wells	Number of wells below normal for >=2 out of	Number of wells below normal for 4 or more	Percent		
		below	the last 3	consecutive	below	Percent	Percent
Name	total	normal	months	months	normal	stage 2	stage 3
Fairfield	11	0	0	0	0	0	0
Hartford	10	0	0	0	0	0	0
Litchfield	5	0	0	0	0	0	0
Middlesex	7	1	1	1	14.3	14.3	14.3
New Haven	13	0	0	0	0	0	0
New London	5	0	0	0	0	0	0
Tolland	11	0	0	0	0	0	0
Windham	6	0	0	0	0	0	0

## END OF JULY 2023 GROUNDWATER SUMMARY BY COUNTY



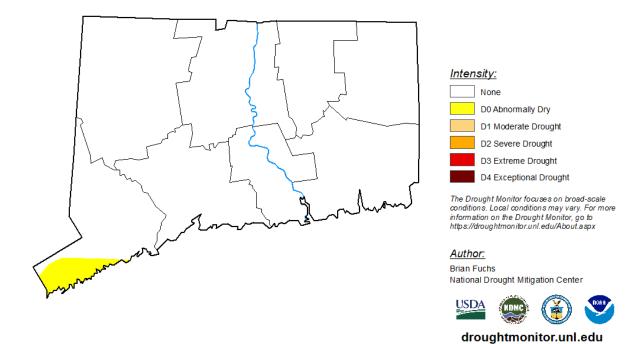
			Number of	Number of			
			streamgages	streamgages			
		Number of	below normal	below normal			
		streamgages	for >=2 out of	for >=4 out of	Percent		
		below	the last 3	the last 5	below	Percent	Percent
Name	total	normal	months	months	normal	stage 2	stage 3
Fairfield	14	0	(	0	0	C	0
Hartford	11	0	(	0	0	C	0
Litchfield	10	0	(	0	0	C	0
Middlesex	4	0	(	0	0	C	0
New Haven	8	0	(	0	0	C	0
New London	5	0	(	0	0	C	0
Tolland	3	0	(	0	0	C	0
Windham	10	0	(	0	0	C	0

# JULY 2023 STREAMFLOW SUMMARY BY COUNTY

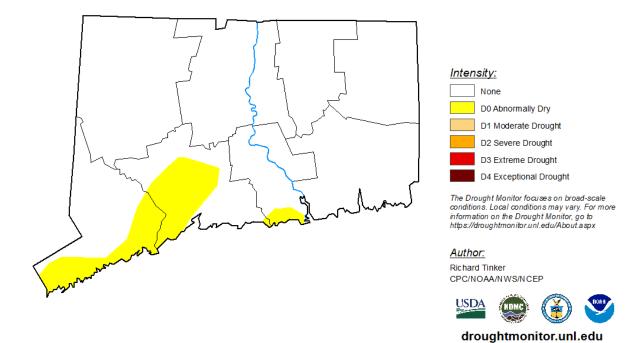


Provisional Data, subject to review and revision

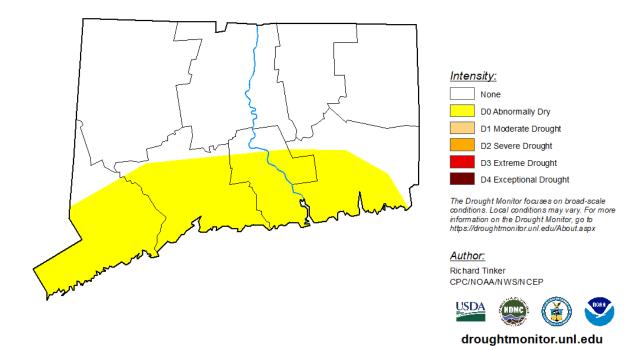
July 25, 2023 (Released Thursday, Jul. 27, 2023) Valid 8 a.m. EDT



July 18, 2023 (Released Thursday, Jul. 20, 2023) Valid 8 a.m. EDT



July 11, 2023 (Released Thursday, Jul. 13, 2023) Valid 8 a.m. EDT



#### July 4, 2023 (Released Thursday, Jul. 6, 2023)

Valid 8 a.m. EDT

	Drought Conditions (Percent Area)						
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4	
Current	17.17	82.83	4.00	0.00	0.00	0.00	
Last Week 06-27-2023	8.16	91.84	0.00	0.00	0.00	0.00	
3 Month's Ago 04-04-2023	100.00	0.00	0.00	0.00	0.00	0.00	
Start of Calendar Year 01-03-2023	53.82	46.18	0.00	0.00	0.00	0.00	
Start of Water Year 09-27-2022	0.00	100.00	70.06	28.07	0.00	0.00	
One Year Ago 07-05-2022	37.56	62.44	39.48	0.00	0.00	0.00	

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

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#### droughtmonitor.unl.edu

### What is the USDM?

Home / About / What is the USDM?

Maybe you've seen it in the media: that map of the U.S. painted with blobs of yellow, orange and red. It shows drought—but how do we know which colors go where? Who decides? What does it mean for you? Read below to find out.

The U.S. Drought Monitor (USDM) is a map released every Thursday, showing where drought is and how bad it is across the U.S. and its territories. The map uses six classifications: normal conditions, abnormally dry (D0), showing areas that may be going into or are coming out of drought, and four levels of drought: moderate (D1), severe (D2), extreme (D3) and exceptional (D4).

An associated product—the North American Drought Monitor—comes out monthly, reflecting drought conditions across the entire continent.

Category	None	D0	D1	D2	D3	D4
Description	Normal or wet conditions	Abnormally Dry	Moderate Drought	Severe Drought	Extreme Drought	Exceptional Drought

The included graphics and more information about the US Drought Monitor can be found at this link: https://droughtmonitor.unl.edu/About/WhatistheUSDM.aspx

