

Connecticut Precipitation
National Weather Service Offices
Boston/Norton MA, Albany NY, Upton NY
 Preliminary Precipitation Data (inches) by County
 Precipitation Data through November 2022
Includes CoCoRaHS data

CT 1-Month November 2022	Rainfall	Departure	Percent	Normal
Litchfield	3.27	-0.99	77	4.26
Hartford	3.17	-1.30	71	4.47
Tolland	2.92	-1.58	65	4.50
Windham	3.01	2.00	68	4.44
Fairfield	2.59	-1.71	60	4.30
New Haven	2.95	-1.21	71	4.16
Middlesex	2.93	-1.41	68	4.34
New London	2.20	-2.30	49	4.50

CT 2-month Oct-Nov 22	Rainfall	Departure	Percent	Normal
Litchfield	8.08	-1.01	89	9.09
Hartford	7.53	-1.84	80	9.37
Tolland	7.86	-1.40	85	9.26
Windham	7.50	-1.46	84	8.96
Fairfield	7.23	-1.61	82	8.84
New Haven	7.47	-1.33	85	8.80
Middlesex	8.01	-1.70	82	9.71
New London	6.31	-2.48	72	8.79

CT 3-month Sep-Nov 22	Rainfall	Departure	Percent	Normal
Litchfield	14.67	1.19	109	13.48
Hartford	13.59	-0.12	99	13.71
Tolland	13.94	0.71	105	13.23
Windham	14.86	1.74	113	13.12
Fairfield	13.11	-0.18	99	13.29
New Haven	14.72	1.97	115	12.75
Middlesex	16.81	3.08	122	13.73
New London	13.40	0.14	101	13.26

CT 4-month Aug-Nov 22	Rainfall	Departure	Percent	Normal
Litchfield	16.68	-1.19	93	17.87
Hartford	16.86	-1.20	93	18.06
Tolland	18.20	1.00	106	17.20
Windham	18.94	1.65	110	17.29
Fairfield	14.44	-3.29	81	17.73
New Haven	18.10	1.40	108	16.70
Middlesex	20.83	3.08	117	17.75
New London	16.65	-1.08	94	17.73

CT 5-month Jul-Nov 22	Rainfall	Departure	Percent	Normal
Litchfield	19.34	-3.12	86	22.46
Hartford	19.69	-2.94	87	22.63
Tolland	21.12	-0.01	100	21.13
Windham	20.95	-0.60	97	21.55
Fairfield	16.87	-5.13	77	22.00
New Haven	19.86	-0.88	96	20.74
Middlesex	22.07	-0.06	100	22.13
New London	17.63	-3.82	82	21.45

CT 6-month Jun-Nov 22	Rainfall	Departure	Percent	Normal
Litchfield	22.33	-4.73	83	27.06
Hartford	23.00	-4.25	84	27.25
Tolland	24.23	-1.48	94	25.71
Windham	25.14	-0.75	97	25.89
Fairfield	20.87	-5.57	79	26.44
New Haven	23.41	-1.73	93	25.14
Middlesex	25.76	-1.33	95	27.09
New London	21.32	-4.20	84	25.52

CT 7-month May-Nov 22	Rainfall	Departure	Percent	Normal
Litchfield	26.42	-5.05	84	31.47
Hartford	25.52	-6.15	81	31.67
Tolland	26.64	-3.17	89	29.81
Windham	26.41	-3.50	88	29.91
Fairfield	24.29	-6.53	79	30.82
New Haven	26.20	-3.17	89	29.37
Middlesex	28.21	-3.10	90	31.31
New London	23.69	-5.59	81	29.28

CT 12-month Dec 21-Nov 22	Rainfall	Departure	Percent	Normal
Litchfield	45.73	-4.97	90	50.70
Hartford	43.53	-7.39	85	50.92
Tolland	45.56	-4.55	91	50.11
Windham	45.50	-4.72	91	50.23
Fairfield	40.86	-9.52	81	50.38
New Haven	43.75	-4.95	90	48.70
Middlesex	47.01	-4.48	91	51.49
New London	41.16	-8.97	82	50.13

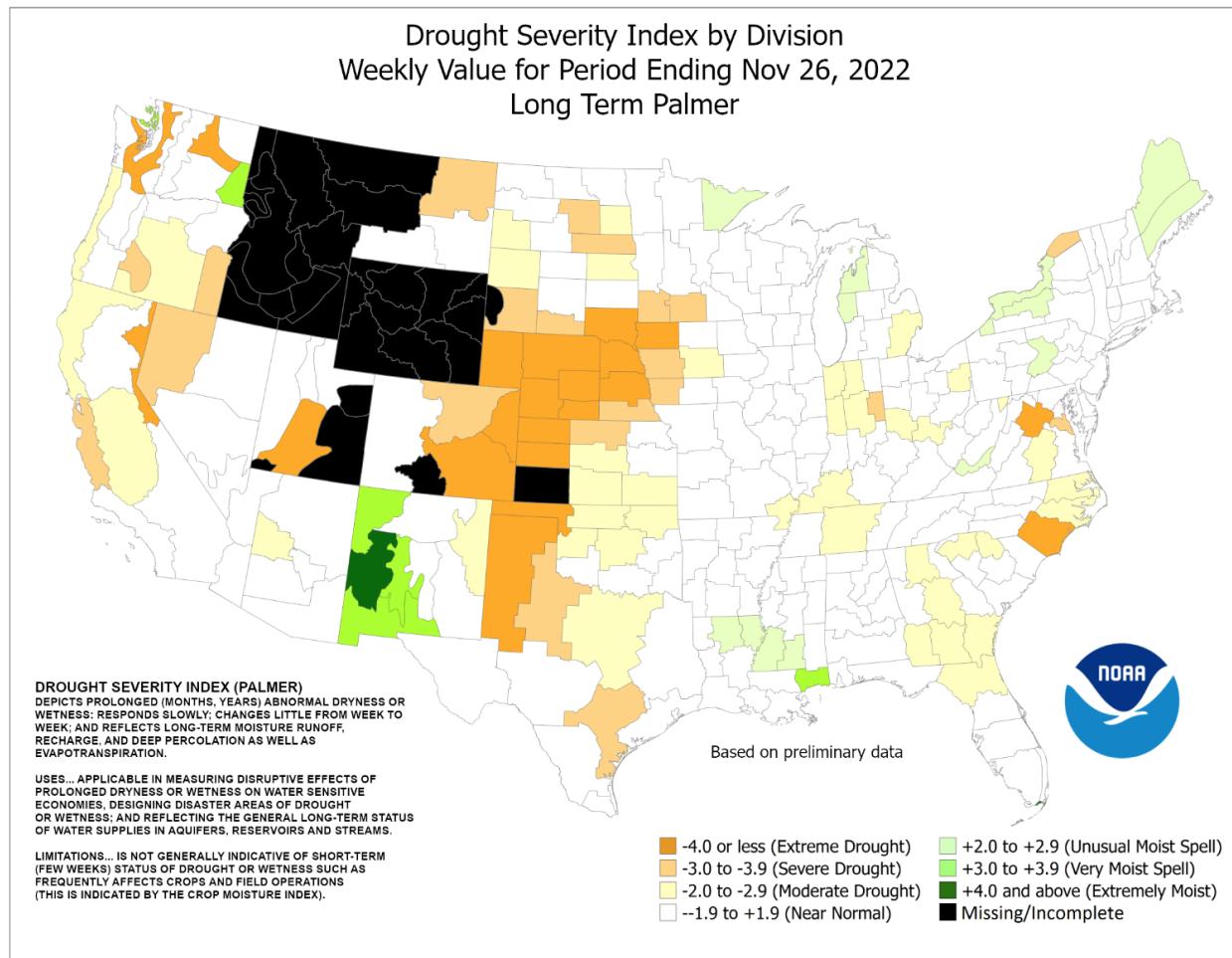
CT 24-month Dec 20-Nov 22	Rainfall	Departure	Percent	Normal
Litchfield	105.71	4.29	104	101.42
Hartford	105.23	3.47	103	101.76
Tolland	110.52	10.36	110	100.17
Windham	108.17	7.77	108	100.40
Fairfield	95.52	-5.07	95	100.59
New Haven	100.85	3.46	104	97.39
Middlesex	106.31	3.66	104	102.65
New London	96.43	-3.59	96	100.02

CT 36-month Dec 19-Nov 22	Rainfall	Departure	Percent	Normal
Litchfield	151.93	-0.21	100	152.14
Hartford	148.77	-3.83	97	152.61
Tolland	155.16	4.93	103	150.23
Windham	152.40	1.83	101	150.57
Fairfield	143.29	-7.51	95	150.80
New Haven	148.45	2.37	102	146.08
Middlesex	153.57	-0.24	100	153.81
New London	140.14	-9.77	93	149.92

County-based monthly precipitation totals are calculated using an average of all available full-month precipitation totals within that County from the following networks: Community Collaborative Rain, Hail and Snow network (CoCoRaHS), Cooperative Weather Observer Program (Coop), and Automated Surface Observing Systems (ASOS) data.

Coop and ASOS sites are part of National Weather Service networks. CoCoRaHS is a community-based network of volunteers that report precipitation.

County-based monthly normals were calculated using 30-year precipitation normals from NOAA/National Centers for Environmental Information (NCEI) for the period of 1981-2010. Monthly normals from 42 stations (consisting of Coop and ASOS stations) were grouped by County to calculate a single monthly normal for each County.



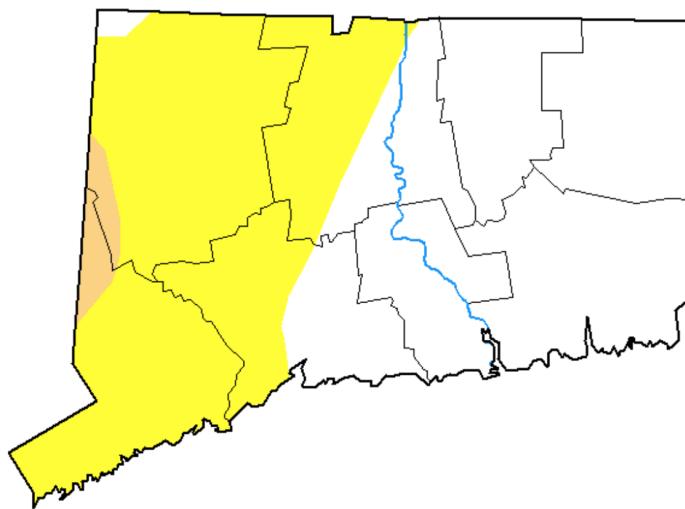
Map 1. Palmer Drought Index Map for the Week Ending November 26th, 2022. From the Climate Prediction Center. Values for individual climate regions follow: Northwest +0.49, Central +0.80 and Coastal -1.13.

U.S. Drought Monitor Connecticut

November 29, 2022

(Released Thursday, Dec. 1, 2022)

Valid 7 a.m. EST



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	53.47	46.53	2.21	0.00	0.00	0.00
Last Week 11-22-2022	53.47	46.53	2.21	0.00	0.00	0.00
3 Months Ago 08-30-2022	0.00	100.00	100.00	100.00	2.01	0.00
Start of Calendar Year 01-04-2022	100.00	0.00	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 11-30-2021	100.00	0.00	0.00	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>

Author:

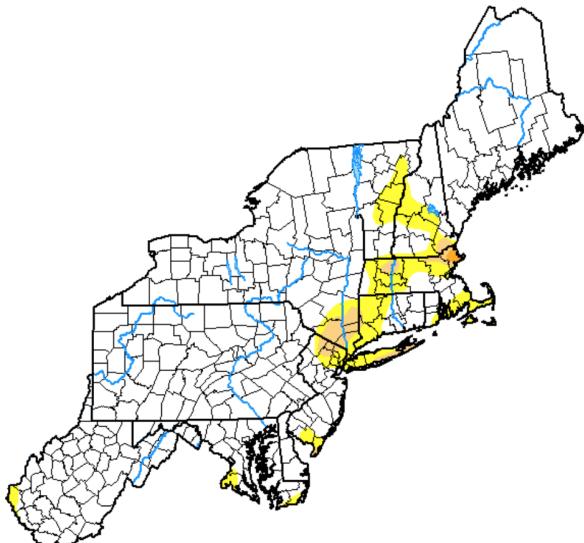
David Simeral
Western Regional Climate Center



droughtmonitor.unl.edu

Map 2. U.S. Drought Monitor zoom-in on CT, effective 11/29/2022.

U.S. Drought Monitor
Northeast



November 29, 2022

(Released Thursday, Dec. 1, 2022)

Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	89.43	10.57	2.06	0.13	0.00	0.00
Last Week 11-22-2022	89.68	10.32	1.98	0.13	0.00	0.00
3 Months Ago 08-30-2022	40.91	59.09	23.76	11.00	1.98	0.00
Start of Calendar Year 01-04-2022	84.91	15.09	2.17	0.85	0.00	0.00
Start of Water Year 09-27-2022	69.23	30.77	12.95	3.83	0.14	0.00
One Year Ago 11-30-2021	90.30	9.70	2.04	0.85	0.00	0.00

Intensity:

None	D2 Severe Drought
D0 Abnormally Dry	D3 Extreme Drought
D1 Moderate Drought	D4 Exceptional Drought

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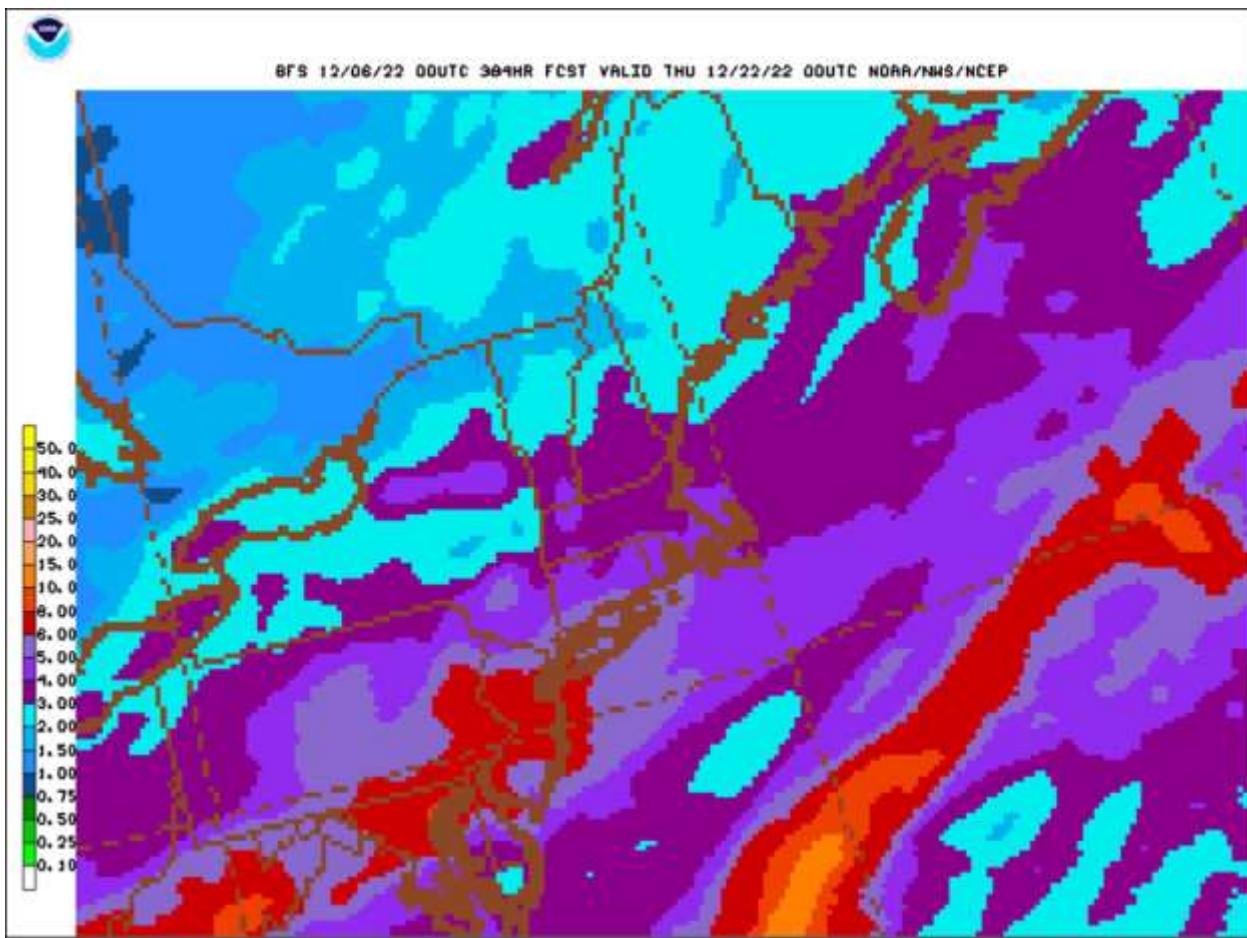


droughtmonitor.unl.edu

Map 3. U.S. Drought Monitor for Northeast US, effective 11/29/2022.

Good Morning:

We are expecting a very active storm pattern over the next two weeks (see GFS forecast below). A series of 4 – 6 low pressure systems are forecast to move from the Ohio and Tennessee valleys and up through New England during the next two weeks. Some of these storm systems could deliver wet snow in addition to above normal rainfall. Total liquid equivalent is expected to range from 3" – 5" inches over the next 16 days.



Sincerely,

Douglas W. Glowacki
Emergency Management Program Specialist
Division of Emergency Management and Homeland Security
Department of Emergency Services and Public Protection
1111 Country Club Road Middletown, CT 06457
Cell 860-250-2358

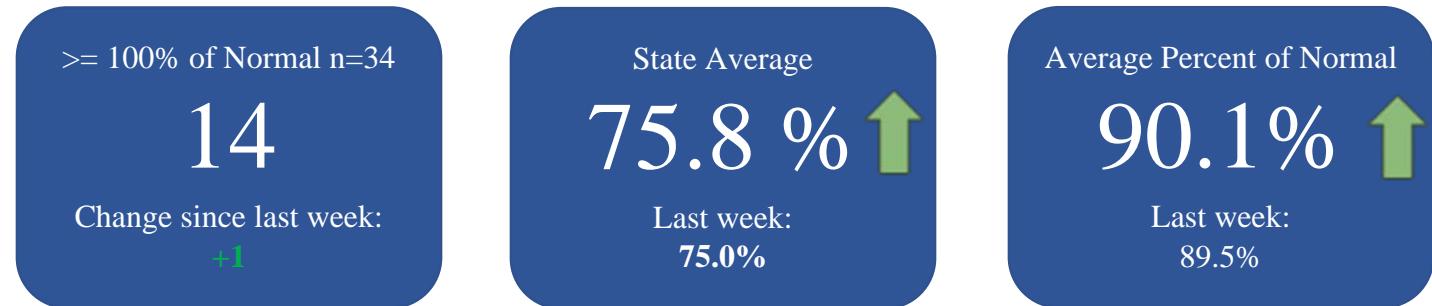
Surface Reservoir Capacity Measurements and Trends

12/2/2022 Update

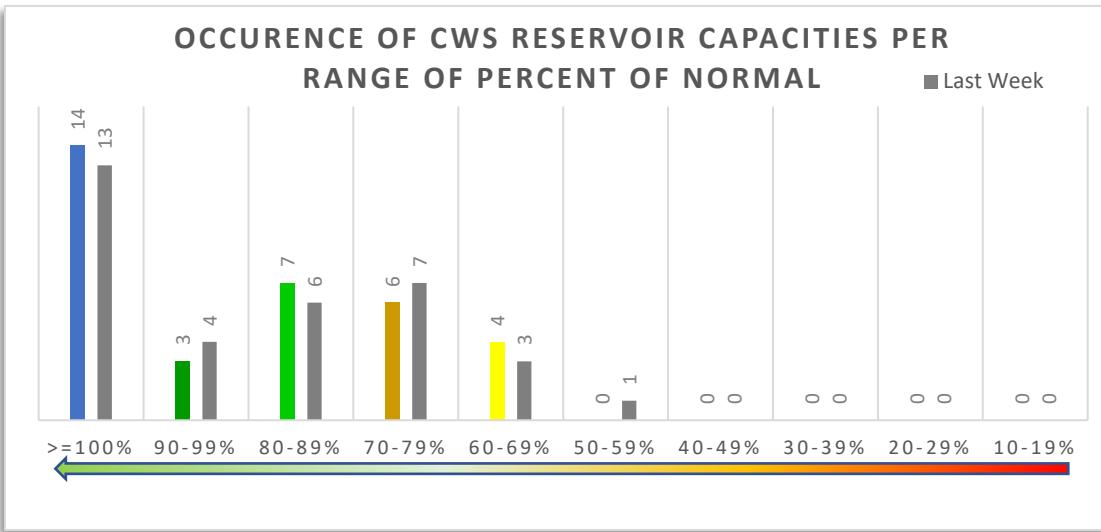
CT's Reservoir Systems Continue on a Positive Trend!

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.

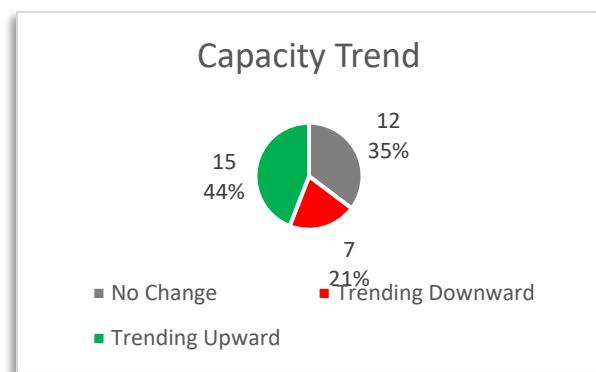
Key takeaways:



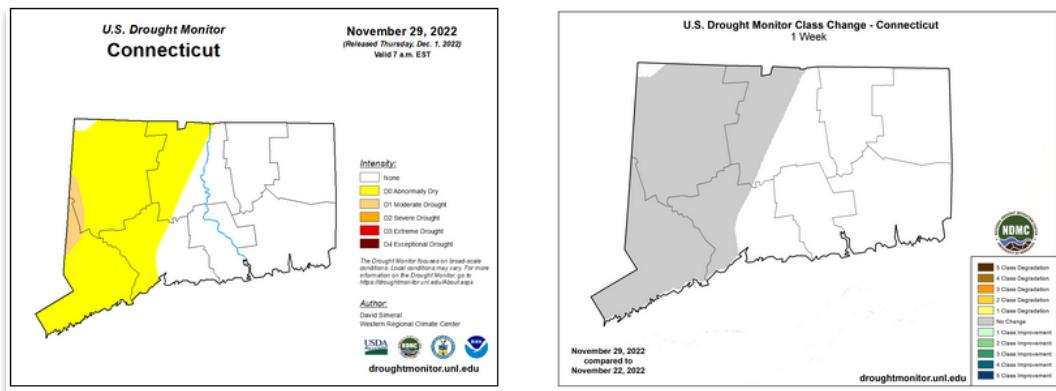
- 8 reservoir systems have reported that they are currently at 100% full (no change since last week).



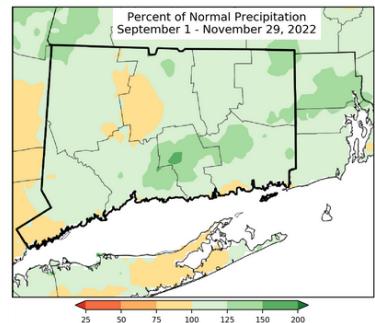
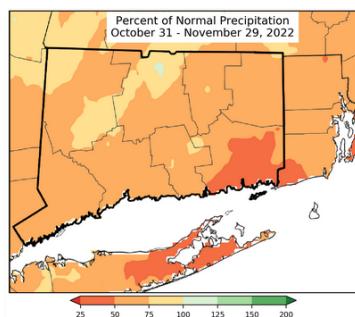
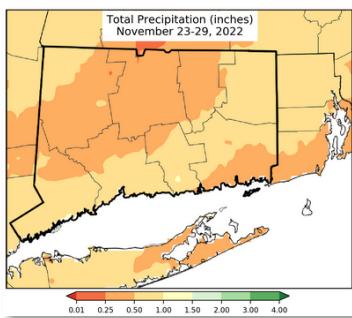
- The gray bars indicate last week's measurements and the colored bar is the current measurement. In non-drought conditions, the graph above would have all of the systems in the >=100% of normal column (n=34).
- **15 system's short-term week to week trend is upward (-6 since last week).** 7 systems are trending downward in capacity from their previous measurements (**No change** since last week). 12 systems have had no change in capacity (+6 change since last week).



- Six systems have reported they are in the first stage of their drought plan. Several systems are requesting voluntary and mandatory water use conservation. (-1 since last week)
- One system is in their 2nd drought stage.
- US Drought Monitor: – No change since last week
- <https://droughtmonitor.unl.edu/CurrentMap/StateDroughtMonitor.aspx?CT>

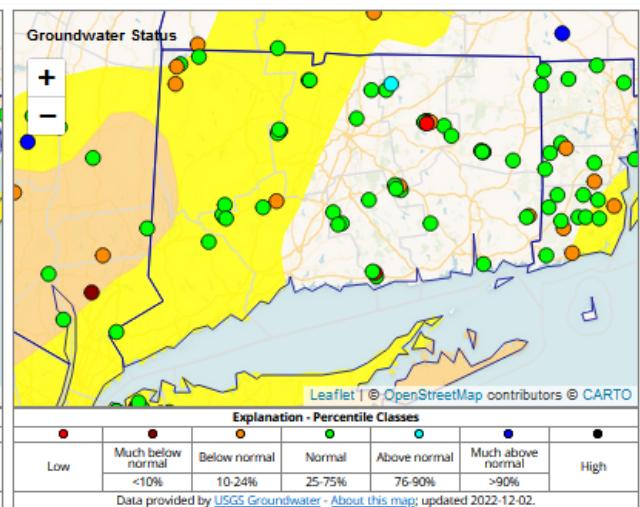
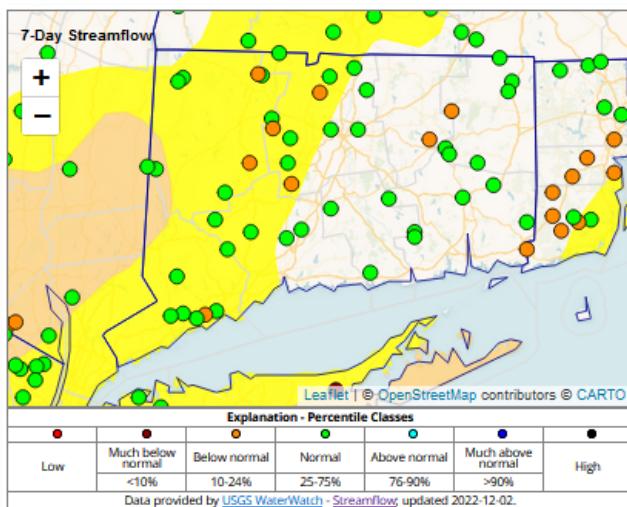


- Last USDM week, the entire state received rain ranging from trace amounts to 1 inch. (Map 1). The 30-day Percent of Normal Precipitation map shows impacts from the lack of significant rain in the last 30 days. Nearly all of CT is below normal rainfall for the last 30-days. (Map 2). The long-term trend over the last 90-days still shows some dryness in southwestern Fairfield County and western Hartford County (Map 3). Streamflow shows impacts from short-term dry for many rivers in CT. Groundwater continues to show low measurements in the central and western parts of the state but overall are in good shape for the real-time monitoring wells.



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	11/27/2022	49.20	Drought Alert	↑	81.90	60	11/20/2022	48.00	FAIRFIELD
CT1030021	South Norwalk Electric & Water	11/28/2022	41.50	Drought Advisory	↑↑	65.70	63	11/21/2022	41.40	FAIRFIELD
CT0570011	Aquarion Water Co of CT-Greenwich Syster	11/20/2022	42.50	No Drought Stage	↑	66.90	64	11/13/2022	42.40	FAIRFIELD
CT0150011	Aquarion Water Co of CT-Main System	11/20/2022	61.50	No Drought Stage	↑	83.70	73	11/13/2022	61.30	FAIRFIELD
CT1350011	Aquarion Water Co of CT-Stamford	11/20/2022	53.20	No Drought Stage	→	68.40	78	11/13/2022	53.30	FAIRFIELD
CT0340011	Danbury Water Department	11/13/2022	69.40	Advisory	↓	80.50	86	11/6/2022	69.90	FAIRFIELD
CT0090011	Bethel Water Dept	11/27/2022	100.00	No Drought Stage	--	96.30	104	11/20/2022	100.00	FAIRFIELD
C10473011	CTWC - Northern Reg-Western System	11/24/2022	60.20	No Drought Stage	--	82.20	73	11/17/2022	60.20	HARTFORD
CT0770021	Manchester Water Department	11/20/2022	71.50	Drought Alert	↑	91.20	78	11/13/2022	68.90	HARTFORD
CT0170011	Bristol Water Department	11/27/2022	70.20	Drought Advisory	↑	84.60	83	11/13/2022	69.10	HARTFORD
CT0890011	New Britain Water Department	11/23/2022	56.50	Drought Alert	→	64.90	87	11/17/2022	57.10	HARTFORD
CT1310011	Southington Water Department	11/26/2022	61.90	No Drought Stage	--	69.10	90	11/19/2022	61.90	HARTFORD
CT0640011	Metropolitan District Commission	11/28/2022	86.70	No Drought Stage	↑	84.90	102	11/14/2022	85.80	HARTFORD
CT1430011	Torrington Water Company	11/20/2022	57.70	No Drought Stage	↑	77.00	75	11/13/2022	54.40	LITCHFIELD
CT1620011	Winsted Water Works	11/27/2022	96.70	No Drought Stage	↑	97.30	99	11/13/2022	94.90	LITCHFIELD
CT0980011	Aquarion Water Co of CT-Norfolk System	11/20/2022	100.00	No Drought Stage	--	99.40	101	11/13/2022	100.00	LITCHFIELD
CT1250011	Sharon Water & Sewer Commission	11/26/2022	100.00	No Drought Stage	--	97.30	103	11/19/2022	100.00	LITCHFIELD
CT1220011	Aquarion Water Co of CT-Salisbury Sys	11/20/2022	100.00	No Drought Stage	--	96.10	104	11/13/2022	100.00	LITCHFIELD
CT0261031	CTWC - Shoreline Region-Chester System	11/24/2022	97.70	No Drought Stage	↑	94.70	103	11/17/2022	88.40	MIDDLESEX
CT0830021	Connecticut Valley Hospital	11/21/2022	100.00	No Drought Stage	--	95.60	105	11/14/2022	100.00	MIDDLESEX
CT0830011	Middletown Water Department	11/20/2022	84.90	No Drought Stage	↑	74.60	114	11/13/2022	81.90	MIDDLESEX
CT0608011	CTWC - Shoreline Region-Guilford System	11/24/2022	57.00	No Drought Stage	↑	81.60	70	11/17/2022	55.80	NEW HAVEN
CT1510011	Waterbury Water Department	11/13/2022	71.40	No Drought Stage	↑	89.40	80	11/6/2022	67.70	NEW HAVEN
CT0880011	CTWC - Naugatuck Region-Central System	11/24/2022	72.70	No Drought Stage	--	88.30	82	11/17/2022	72.70	NEW HAVEN
CT0800011	Meriden Water Division	11/20/2022	71.30	No Drought Stage	↑	85.90	83	11/13/2022	70.70	NEW HAVEN
CT0930011	Regional Water Authority	11/27/2022	73.90	No Drought Stage	→	73.70	100	11/20/2022	74.00	NEW HAVEN
CT1480011	Wallingford Water Department	11/25/2022	95.30	No Drought Stage	→	79.30	120	11/18/2022	95.80	NEW HAVEN
C10580011	Jewett City Water Company	11/21/2022	58.40	No Drought Stage	--	84.40	69	11/14/2022	58.40	NEW LONDON
CT0950011	New London Dept. of Public Utilities	11/27/2022	51.70	Drought Advisory	→	60.30	86	11/20/2022	52.30	NEW LONDON
CT1040011	Norwich Public Utilities	11/26/2022	77.00	Water Supply Advisory	↑	84.60	91	11/19/2022	76.80	NEW LONDON
CT0590011	Groton Utilities	11/21/2022	87.30	No Drought Stage	→	83.90	104	11/14/2022	87.50	NEW LONDON
CT1370011	Aquarion Water Co of CT-Mystic	11/20/2022	100.00	No Drought Stage	--	96.40	104	11/13/2022	100.00	NEW LONDON
CT1340011	CTWC - Northern Reg-Stafford System	11/24/2022	100.00	No Drought Stage	--	99.20	101	11/17/2022	100.00	TOLLAND
CT1630011	Windham Water Works	11/27/2022	100.00	No Drought Stage	--	100.00	100	11/20/2022	100.00	WINDHAM
75.80			84.10	90.14						Ave Percent of Normal by County

↑ -Increase since last measurement (less than 10% increase)
 ↑↑ -Increase since last measurement (10% or greater increase)
 ↓ -Decrease since last measurement (less than 10% decrease)
 ↓↓ -Decrease since last measurement (10% or greater decrease)
 -- -Same measurement as the previous measurement

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

14
 3
 17
 8

75.43 FAIRFIELD
 85.50 HARTFORD
 96.40 LITCHFIELD
 107.33 MIDDLESEX
 89.17 NEW HAVEN
 90.80 NEW LONDON
 101.00 TOLLAND



U.S. Geological Survey

**Status of streamflow and
groundwater levels, as of
November 30, 2022**



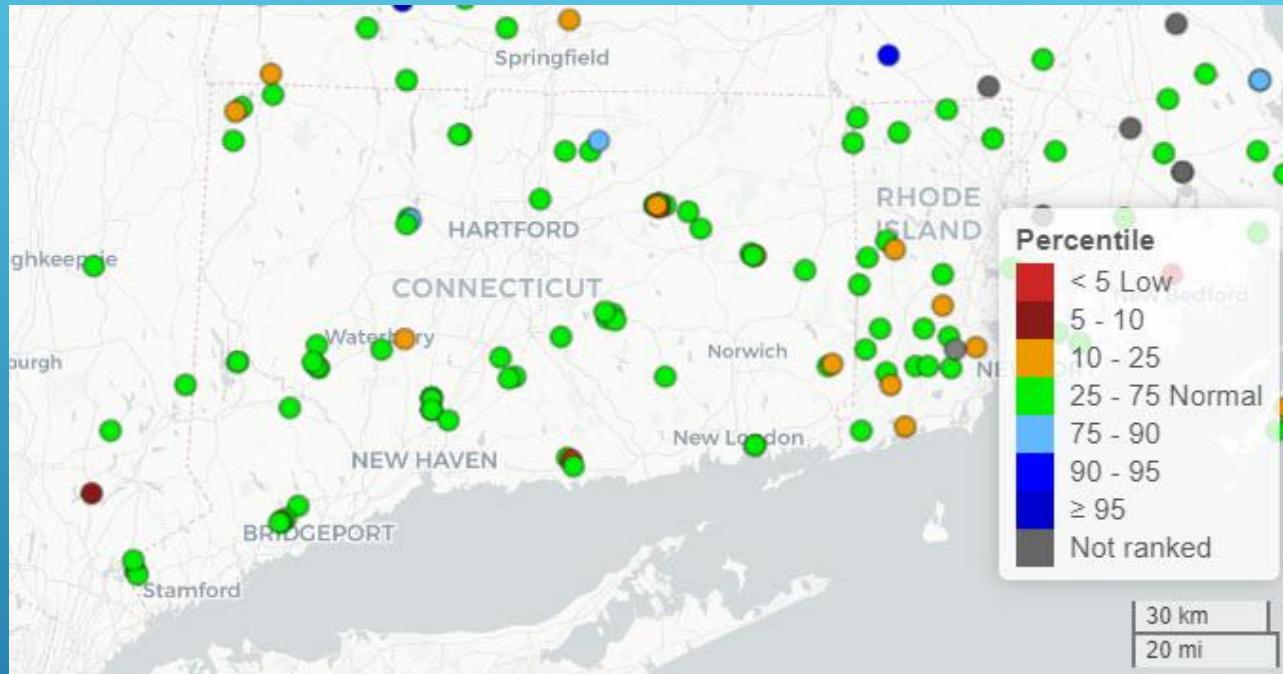
Provisional Data Subject to Review and Revision

Name	total	Number of wells				Percent below normal
		Number of wells below normal	Number of wells below normal for >=2 months	below normal for 4 or more consecutive months		
Fairfield	11	1	0	0	0	9.1
Hartford	10	1	0	0	0	10
Litchfield	5	1	0	0	0	20
Middlesex	7	1	1	0	0	14.3
New Haven	13	1	1	1	1	7.7
New London	5	1	0	0	0	20
Tolland	12	3	2	2	2	25
Windham	6	1	1	0	0	16.7

END OF NOVEMBER 2022 GROUNDWATER SUMMARY BY COUNTY



Provisional Data Subject to Review and Revision



GROUNDWATER LEVELS AS OF NOVEMBER 30TH



Provisional Data Subject to Review and Revision

Name	total	Number of streamgages below normal		Number of streamgages below normal for >=2 months		Percent below normal
		for >=2 months	below normal	below normal	for >=4 months	
Fairfield	13	1	1	1	1	7.7
Hartford	11	1	0	0	0	9.1
Litchfield	10	0	0	0	0	0
Middlesex	4	1	0	0	0	25
New Haven	8	1	1	1	1	12.5
New London	7	1	0	0	0	14.3
Tolland	3	1	0	0	0	33.3
Windham	10	0	0	0	0	0

NOVEMBER 2022 STREAMFLOW SUMMARY BY COUNTY