Overall Hydrologic Status for Maryland

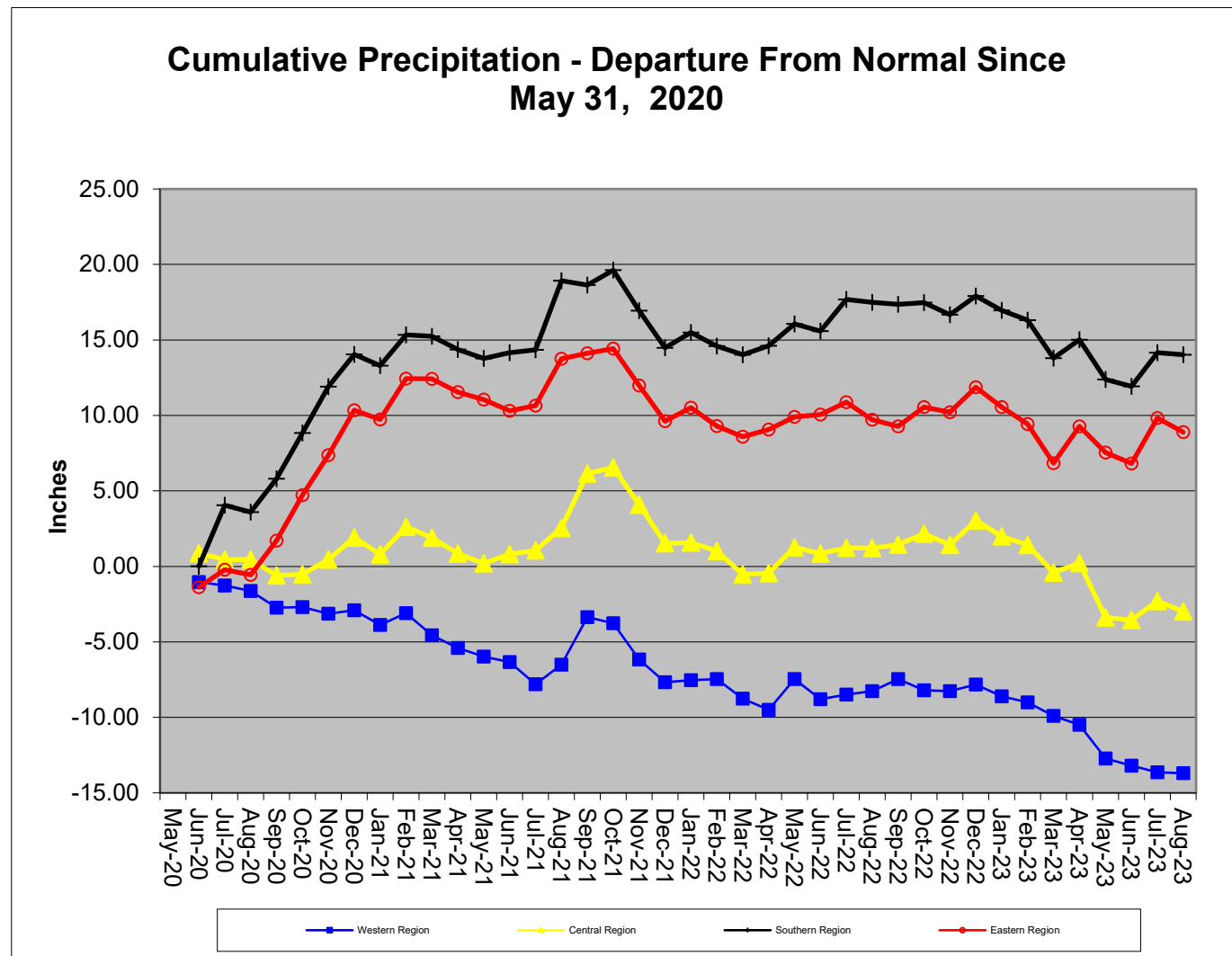| Summary of Hydrologic Indicators for 31-August 2023					
	Rainfall	**Stream Flow**	**Groundwater**	**Reservoirs**	Overall Status
Western	Watch	Normal	Warning	Normal	Watch
Central	Normal	Watch	Warning	Normal	Watch
Eastern	Normal	Normal	Normal		Normal
Southern	Normal		Normal		Normal

Notes: Reservoir Data for Cumberland was not available as of 9/5/2023. The WSSC Patuxent reservoirs have less then 120 days of water in storage. This is a result of dredging in the Triadelphia Reservoir, which is scheduled to end by November 2023.

Precipitation Indicators for Maryland Drought Regions
August 31, 2023

Regions	WY to Date		Since Feb 28, 2023		Since August 31, 2022	
	Percent of Normal	Condition	Percent of Normal	Condition	Percent of Normal	Condition
Western	84%	Watch	80%	Normal	87%	Normal
Central	89%	Normal	81%	Normal	91%	Normal
Eastern	99%	Normal	98%	Normal	98%	Normal
Southern	91%	Normal	90%	Normal	92%	Normal
WY or Water Year begins on October 1						

Statewide Average Monthly Precipitation Totals for Water Years 2021, 2022 and 2023
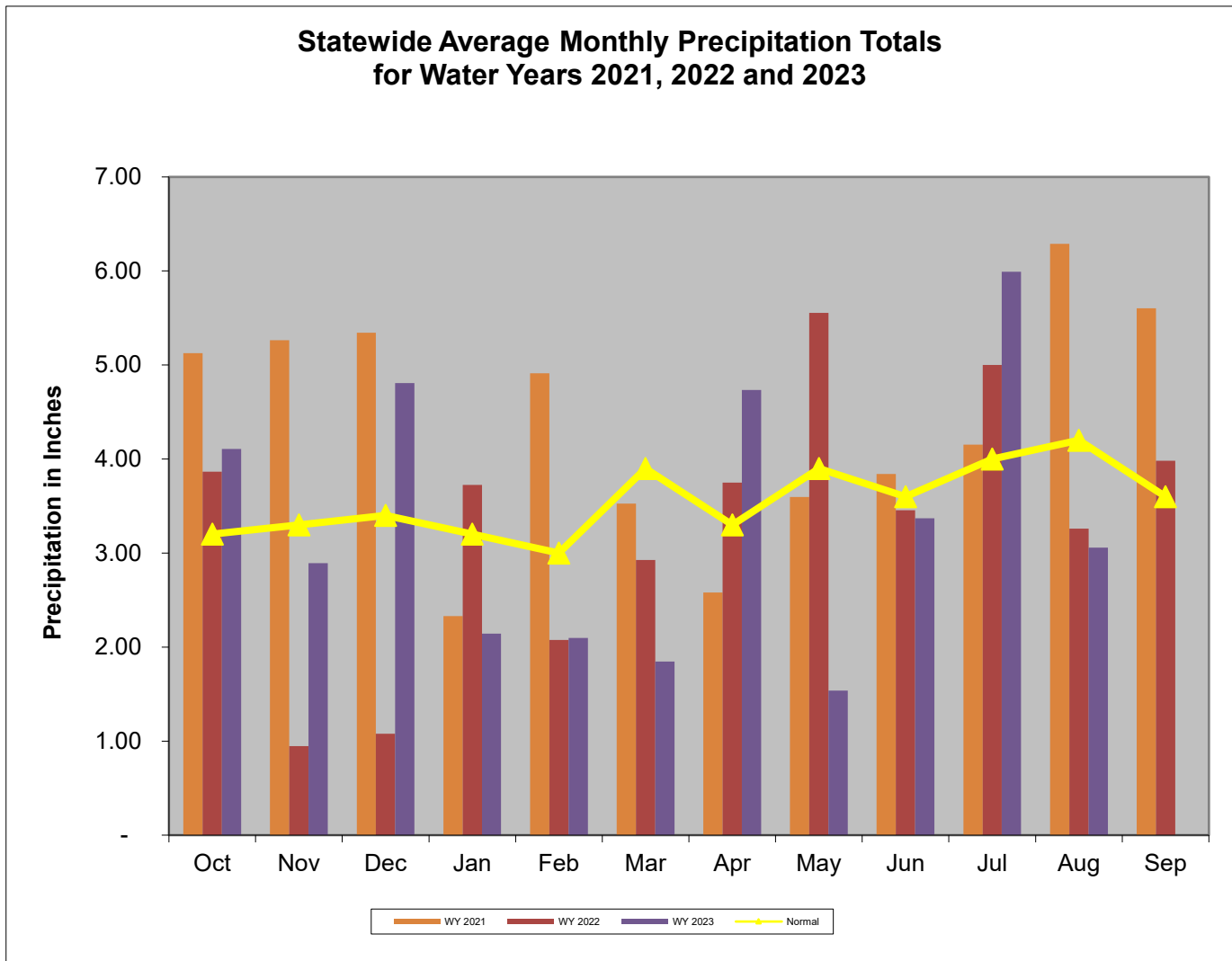
Data downloaded from http://www.weather.gov/marfc/Precipitation_Departures except for Garrett County, which was taken from https://www.ncdc.noaa.gov/cag/divisional/time-series/1808/pcp/1/12/2019-2021 because MARFC data wa

Cumulative Precipitation - Departure From Normal Since May 31, 2020

Precipitation in Maryland Counties
as of 31 August 2023 (WY 2023)

	COUNTY	Normal Rainfall, Actual Rainfall and Rainfall Departure from Normal in Inches															

		WY[1] To Date (Since September 30, 2022)				12 Months (Since August 31, 2022)				3 Months (Since May 31, 2023)				6 Months (Since February 28, 2023)			
	COUNTY	Normal	Actual	Depart	%	Normal	Actual	Depart	%	Normal	Actual	Depart	%	Normal	Actual	Depart	%
WESTERN REGION	ALLEGANY	36.6	31.1	-5.5	85%	40.1	35.5	-4.6	89%	10.5	9.7	-0.8	92%	21.7	16.8	-4.9	77%
	GARRETT	42.7	37.3	-5.4	87%	46.4	42.1	-4.3	91%	13.2	12.8	-0.4	97%	26.1	23.3	-2.8	89%
	WASHINGTON	36.8	29.0	-7.8	79%	40.6	33.2	-7.4	82%	10.5	8.8	-1.7	84%	21.4	15.0	-6.4	70%
	Regional Average	38.7	32.5	-6.2	84%	42.4	36.9	-5.4	87%	11.4	10.4	-1.0	92%	23.1	18.4	-4.7	80%
CENTRAL REGION	BALTIMORE COUNTY	41.1	37.6	-3.5	91%	45.5	42.4	-3.1	93%	11.3	13.0	1.7	115%	23.6	20.1	-3.5	85%
	CARROLL	39.5	31.6	-7.9	80%	43.8	35.6	-8.2	81%	11.1	8.6	-2.5	77%	22.8	16.1	-6.7	71%
	CECIL	40.4	41.2	0.8	102%	44.4	45.4	1.0	102%	11.9	15.5	3.6	130%	23.7	23.1	-0.6	97%
	FREDERICK	38.6	30.9	-7.7	80%	42.7	34.9	-7.8	82%	10.7	8.4	-2.3	79%	22.4	15.8	-6.6	71%
	HARFORD	41.6	41.2	-0.4	99%	46.0	46.0	0.0	100%	12.1	14.8	2.7	122%	24.1	21.7	-2.4	90%
	HOWARD	40.4	33.8	-6.6	84%	44.5	38.4	-6.1	86%	11.2	10.9	-0.3	97%	23.3	17.5	-5.8	75%
	MONTGOMERY	38.9	33.3	-5.6	86%	43.1	38.0	-5.1	88%	11.1	11.1	0.0	100%	22.7	17.6	-5.1	78%
	Regional Average	40.1	35.7	-4.4	89%	44.3	40.1	-4.2	91%	11.3	11.8	0.4	104%	23.2	18.8	-4.4	81%
SOUTHERN REGION	ANNE ARUNDEL	38.4	36.6	-1.8	95%	42.3	40.0	-2.3	95%	11.1	13.9	2.8	125%	22.7	21.2	-1.5	93%
	CALVERT	40.4	37.3	-3.1	92%	44.3	41.3	-3.0	93%	11.8	13.5	1.7	114%	23.6	21.7	-1.9	92%
	CHARLES	38.9	34.7	-4.2	89%	42.8	38.1	-4.7	89%	11.5	12.5	1.0	109%	22.6	19.3	-3.3	85%
	PRINCE GEORGES	38.5	34.7	-3.8	90%	42.3	38.0	-4.3	90%	11.2	13.7	2.5	122%	22.4	20.5	-1.9	92%
	ST MARYS	40.1	36.3	-3.8	91%	44.0	40.9	-3.1	93%	11.8	12.0	0.2	102%	23.4	20.5	-2.9	88%
	Regional Average	39.3	35.9	-3.3	91%	43.1	39.7	-3.5	92%	11.5	13.1	1.6	114%	22.9	20.6	-2.3	90%
EASTERN REGION	CAROLINE	39.5	42.4	2.9	107%	43.3	45.8	2.5	106%	11.8	15.6	3.8	132%	23.4	25.7	2.3	110%
	DORCHESTER	40.0	41.1	1.1	103%	43.6	44.6	1.0	102%	12.3	14.6	2.3	119%	23.9	24.2	0.3	101%
	KENT	39.2	38.8	-0.4	99%	43.5	42.1	-1.4	97%	11.2	13.6	2.4	121%	22.9	22.1	-0.8	97%
	QUEEN ANNES	39.1	39.6	0.5	101%	43.2	42.8	-0.4	99%	11.4	13.3	1.9	117%	23.0	22.7	-0.3	99%
	SOMERSET	39.2	39.2	0.0	100%	43.0	43.3	0.3	101%	12.2	11.8	-0.4	97%	23.3	22.2	-1.1	95%
	TALBOT	39.9	39.0	-0.9	98%	43.7	41.5	-2.2	95%	11.8	13.5	1.7	114%	23.5	22.8	-0.7	97%
	WICOMICO	40.0	38.2	-1.8	96%	43.8	42.3	-1.5	97%	12.2	12.8	0.6	105%	23.6	22.6	-1.0	96%
	WORCESTER	40.4	35.9	-4.5	89%	44.3	39.4	-4.9	89%	12.2	10.7	-1.5	88%	23.4	20.3	-3.1	87%
	Regional Average	39.7	39.3	-0.4	99%	43.6	42.7	-0.8	98%	11.9	13.2	1.4	111%	23.4	22.8	-0.6	98%
INDEPENDENT CITY OF BALTIMORE		40.8	37.2	-3.6	91%	45.2	42.0	-3.2	93%	11.3	13.0	1.7	115%	23.6	20.1	-3.5	85%
Statewide Average		39.6	36.6	-3.0	92%	43.6	40.6	-3.0	93%	11.6	12.4	0.9	107%	23.2	20.5	-2.7	88%

WY[1] - USGS Water Year, which begins October 1

Stream Flow Status Based on Thirty Day Average for 2023 August 31

Region	Stream Gage Location	Notes	30 Day Average (cfs)	Status Based on 30 Day Average Percentage	Status
Western	Youghiogheny (near Oakland)		96	55%-60%	Normal
Western	Savage River (near Barton)		5.2	25%-30%	Normal
Western	Wills Creek (near Cumberland)		36	20%-25%	Watch
Western	Marsh Run (at Grimes)		4.8	25%-30%	Normal
Central	Catoctin Creek (near Middletown)		6.5	20%-25%	Watch
Central	Monocacy (Jug Bridge near Frederick)		108	10%-15%	Watch
Central	Patuxent (near Unity)		8.0	10%-15%	Watch
Central	Deer Cr (at Rocks)		52.0	20%-25%	Watch
Eastern	Choptank (near Greensboro)		30.3	45%-40%	Normal
Eastern	Nassawango Creek (near Snow Hill)		12.6	45%-50%	Normal
	Susquehanna (at Marietta)		29,110	90%-95%	Normal
	Potomac (at Little Falls)(Adjusted)		1,966	5%-10%	Warning

Notes:

Ground Water Status for 31 August 2023				
Region	USGS Well ID	Well Level[1]	Status	
Western	GA Bc 1	14.05	Normal	Warning
	AL Ah 1	5.18	Normal	
	WA Be 2	35.38	Emergency	
	WA Bk 25	50.14	Emergency	
Central	BA Dc 444	41.65	Warning	Warning
	BA Ea 18	26.32	Emergency	
	HA Bd 31	11.64	Normal	
	HA Ca 23	7.52	Normal	
	MO Cc 14	39.59	Warning	
Eastern	QA Cg 69	4.32	Normal	Normal
	WI Cg 20	7.37	Normal	
	MC51-01	11.15	Normal	
	SO Cf 2	3.66	Normal	
Southern	CH Bg 12 (unconfined)	6.97	Normal	*Normal*
	AA Cc 40 (confined)	NA[2]	Unknown	
	CA Fd 54 (confined)	242.05	On Trend[4]	
	CH Dd 33 (confined)	NA[2]	Unknown	
	PG De 21 (confined)	NA[2]	Unknown	
	SM Fg 45 (confined)	NA[2]	Unknown	

[1] - Measurement of water level as feet below land surface
[2] - Not Available as of 2023-9-1
[3] - Value computed from real time measurement
[4] - In accordance with Maryland's drought monitoring and response plan, the impact of drought upon confined aquifers is analyzed as a departure from long term trend.

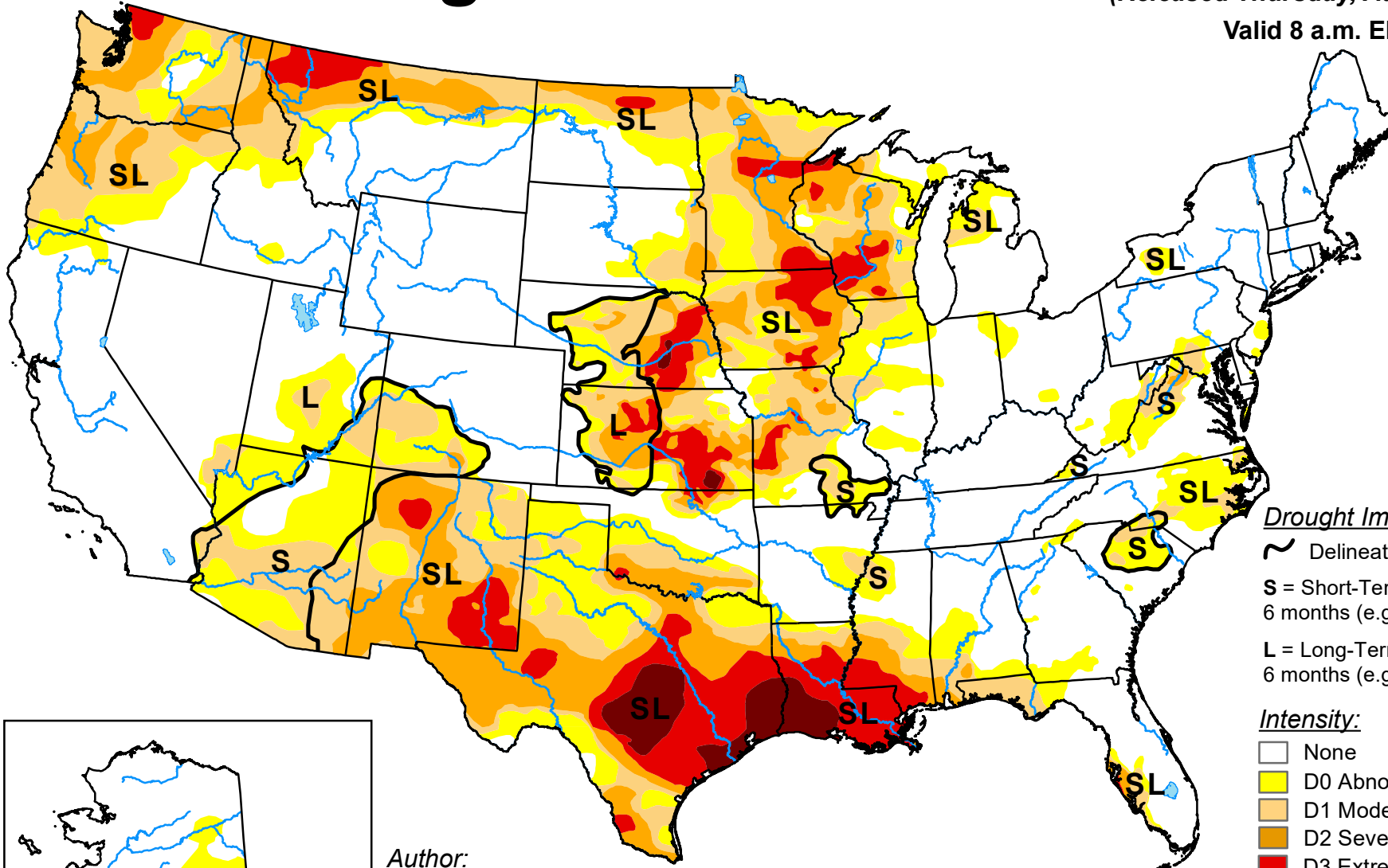Selected ground water levels are available from USGS at:
http://md.water.usgs.gov/groundwater/
Data for other wells may be downloaded from:
USGS - NWIS Web Information for USA

U.S. Drought Monitor

August 29, 2023

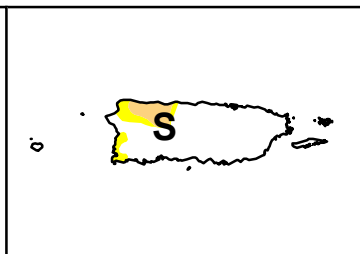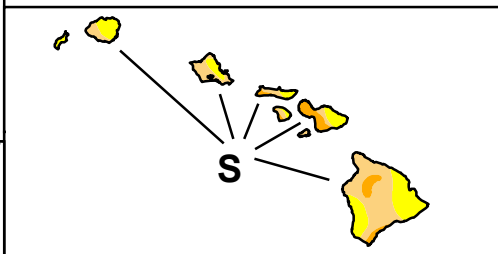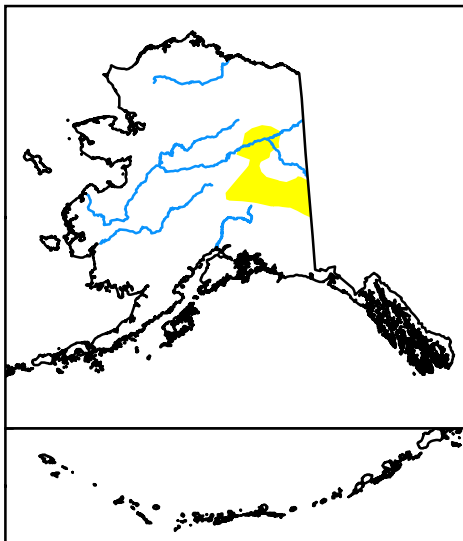*(Released Thursday, Aug. 31, 2023)*

Valid 8 a.m. EDT

Drought Impact Types:

~ Delineates dominant impacts

S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)

L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

Intensity:

☐	None
☐	D0 Abnormally Dry
☐	D1 Moderate Drought
☐	D2 Severe Drought
☐	D3 Extreme 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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USDA   NDMC   DEPARTMENT OF COMMERCE   NOAA

droughtmonitor.unl.edu
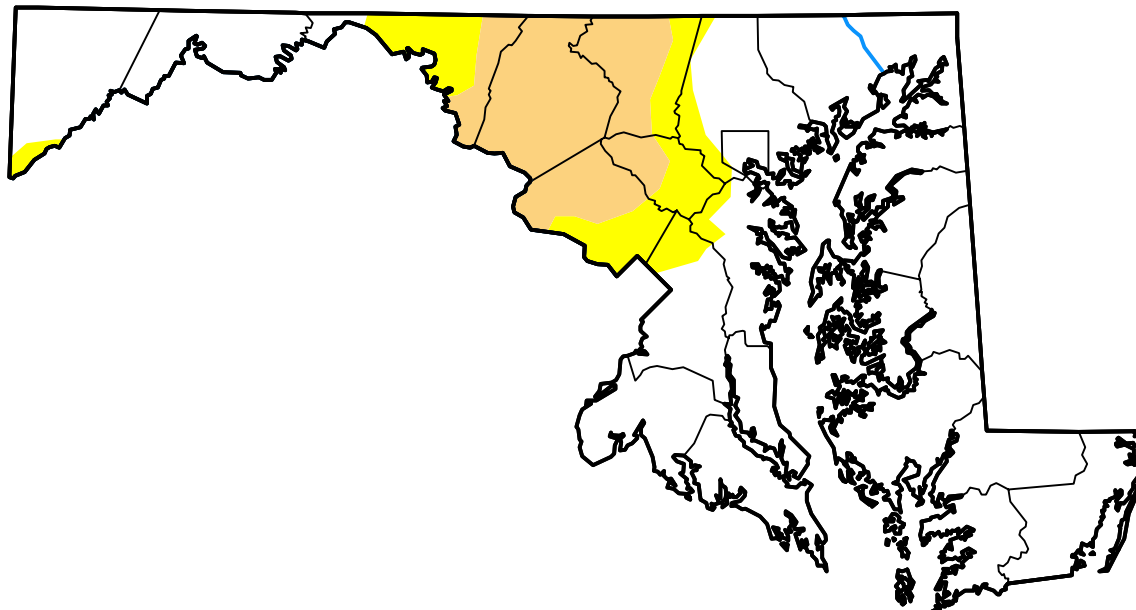
U.S. Drought Monitor
Maryland

August 29, 2023
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Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	73.72	26.28	15.78	0.00	0.00	0.00
Last Week 08-22-2023	73.81	26.19	15.68	0.00	0.00	0.00
3 Months Ago 05-30-2023	33.92	66.08	20.11	0.00	0.00	0.00
Start of Calendar Year 01-03-2023	100.00	0.00	0.00	0.00	0.00	0.00
Start of Water Year 09-27-2022	65.82	34.18	6.75	0.00	0.00	0.00
One Year Ago 08-30-2022	81.40	18.60	6.79	0.00	0.00	0.00

Intensity:

None

D0 Abnormally Dry

D1 Moderate Drought

D2 Severe Drought

D3 Extreme 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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