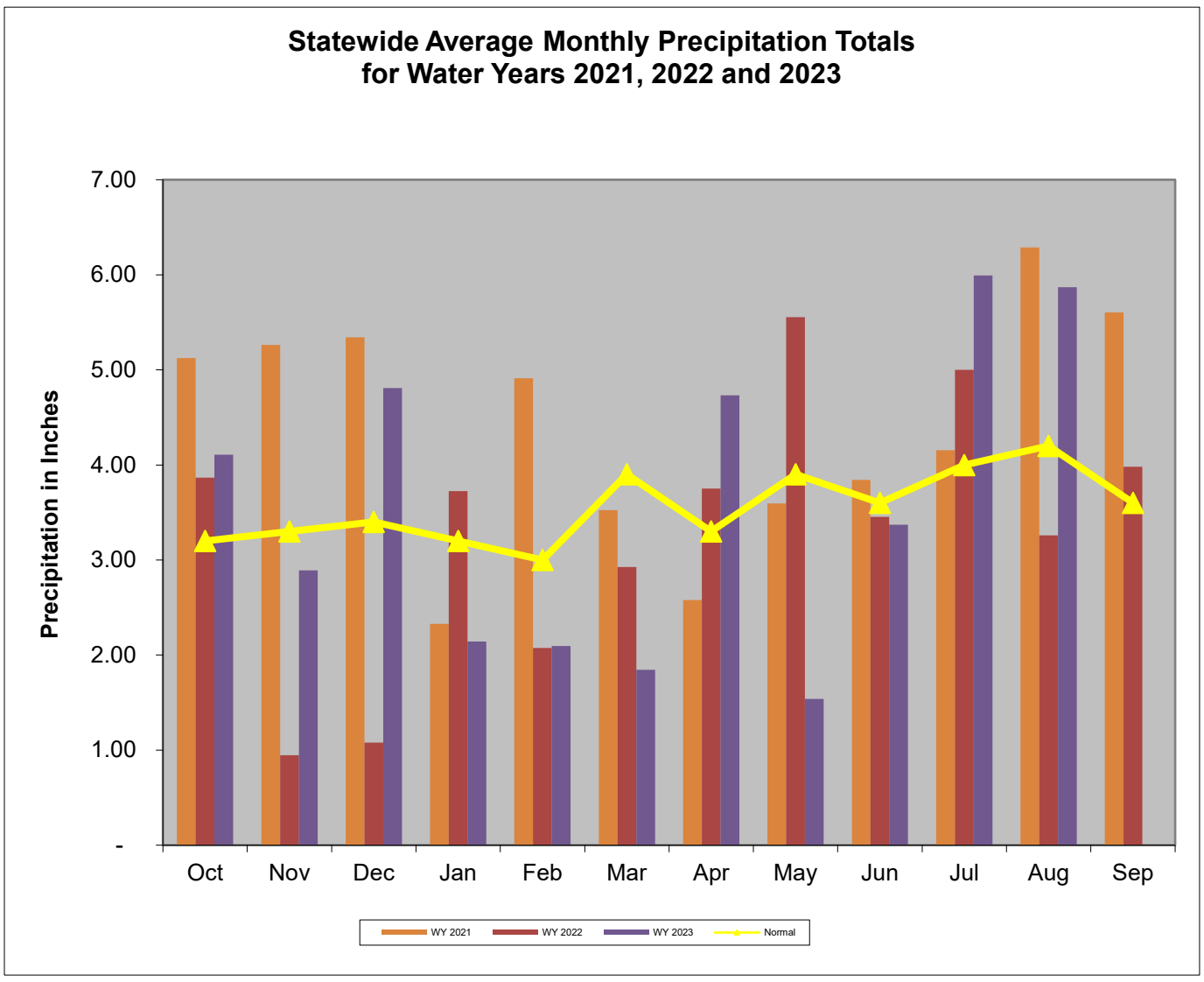
Overall Hydrologic Status for Maryland

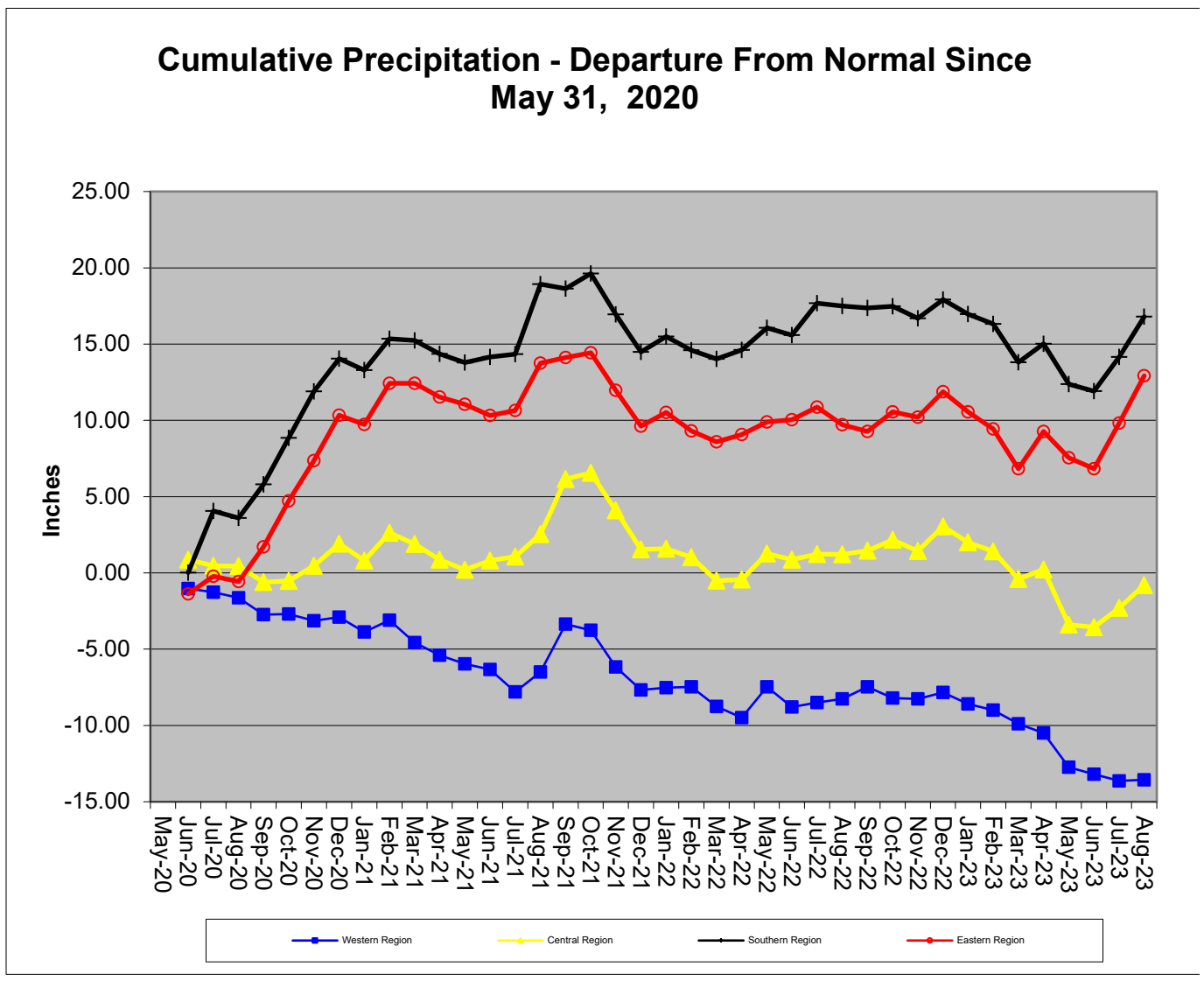
Summary of Hydrologic Indicators for 15-August 2023					
	Rainfall	**Stream Flow**	**Groundwater**	**Reservoirs**	Overall Status
Western	Watch	Normal	Warning	Normal	Watch
Central	Normal	Watch	Watch	Normal	Watch
Eastern	Normal	Normal	Normal		Normal
Southern	Normal		Normal		Normal

Notes: Mid-month evaluations do not include all groundwater gages or reservoir data

Precipitation Indicators for Maryland Drought Regions August 15, 2023						
	WY to Date		Since Feb 28, 2023		Since August 31, 2022	
Regions	**Percent of Normal**	**Condition**	**Percent of Normal**	**Condition**	**Percent of Normal**	**Condition**
Western	84%	Watch	80%	Normal	88%	Normal
Central	94%	Normal	91%	Normal	95%	Normal
Eastern	109%	Normal	115%	Normal	107%	Normal
Southern	99%	Normal	102%	Normal	98%	Normal
WY or Water Year begins on October 1						



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



Precipitation in Maryland Counties
as of 15 August 2023 (WY 2023)

		Normal Rainfall, Actual Rainfall and Rainfall Departure from Normal in Inches															
		WY[1] To Date (Since September 30, 2022)				11.5 Months (Since August 31, 2022)				2.5 Months (Since May 31, 2023)				5.5 Months (Since February 28, 2023)			
	COUNTY	Normal	Actual	Depart	%	Normal	Actual	Depart	%	Normal	Actual	Depart	%	Normal	Actual	Depart	%
WESTERN REGION	ALLEGANY	36.7	31.1	-5.6	85%	40.2	35.5	-4.7	88%	10.6	9.7	-0.9	92%	21.8	16.8	-5.0	77%
	GARRETT	43.2	37.2	-6.0	86%	46.9	42.0	-4.9	90%	13.7	12.7	-1.0	93%	26.6	23.2	-3.4	87%
	WASHINGTON	36.8	30.1	-6.7	82%	40.6	34.3	-6.3	84%	10.5	9.9	-0.6	94%	21.4	16.1	-5.3	75%
	Regional Average	38.9	32.8	-6.1	84%	42.6	37.3	-5.3	88%	11.6	10.8	-0.8	93%	23.3	18.7	-4.6	80%
CENTRAL REGION	BALTIMORE COUNTY	41.4	40.4	-1.0	98%	45.8	45.2	-0.6	99%	11.6	15.8	4.2	136%	23.9	22.9	-1.0	96%
	CARROLL	39.7	33.5	-6.2	84%	44.0	37.5	-6.5	85%	11.3	10.5	-0.8	93%	23.0	18.0	-5.0	78%
	CECIL	40.7	44.5	3.8	109%	44.7	48.7	4.0	109%	12.2	18.8	6.6	154%	24.0	26.4	2.4	110%
	FREDERICK	38.8	32.4	-6.4	84%	42.9	36.4	-6.5	85%	10.9	9.9	-1.0	91%	22.6	17.3	-5.3	77%
	HARFORD	41.9	44.0	2.1	105%	46.3	48.8	2.5	105%	12.4	17.6	5.2	142%	24.4	24.5	0.1	100%
	HOWARD	40.7	36.3	-4.4	89%	44.8	40.9	-3.9	91%	11.5	13.4	1.9	117%	23.6	20.0	-3.6	85%
	MONTGOMERY	39.1	35.5	-3.6	91%	43.3	40.2	-3.1	93%	11.3	13.3	2.0	118%	22.9	19.8	-3.1	86%
	Regional Average	40.3	38.1	-2.2	94%	44.5	42.5	-2.0	95%	11.6	14.2	2.6	122%	23.5	21.3	-2.2	91%
SOUTHERN REGION	ANNE ARUNDEL	38.6	40.0	1.4	104%	42.5	43.4	0.9	102%	11.3	17.3	6.0	153%	22.9	24.6	1.7	107%
	CALVERT	40.5	40.3	-0.2	100%	44.4	44.3	-0.1	100%	11.9	16.5	4.6	139%	23.7	24.7	1.0	104%
	CHARLES	39.0	36.7	-2.3	94%	42.9	40.1	-2.8	93%	11.6	14.5	2.9	125%	22.7	21.3	-1.4	94%
	PRINCE GEORGES	38.7	37.4	-1.3	97%	42.5	40.7	-1.8	96%	11.4	16.4	5.0	144%	22.6	23.2	0.6	103%
	ST MARYS	40.1	39.7	-0.4	99%	44.0	44.3	0.3	101%	11.8	15.4	3.6	131%	23.4	23.9	0.5	102%
	Regional Average	39.4	38.8	-0.6	99%	43.3	42.6	-0.7	98%	11.6	16.0	4.4	138%	23.1	23.5	0.5	102%
EASTERN REGION	CAROLINE	39.4	47.2	7.8	120%	43.2	50.6	7.4	117%	11.7	20.4	8.7	174%	23.3	30.5	7.2	131%
	DORCHESTER	40.0	45.7	5.7	114%	43.6	49.2	5.6	113%	12.3	19.2	6.9	156%	23.9	28.8	4.9	121%
	KENT	39.4	41.7	2.3	106%	43.7	45.0	1.3	103%	11.4	16.5	5.1	145%	23.1	25.0	1.9	108%
	QUEEN ANNES	39.3	43.0	3.7	109%	43.4	46.2	2.8	106%	11.6	16.7	5.1	144%	23.2	26.1	2.9	113%
	SOMERSET	39.1	43.8	4.7	112%	42.9	47.9	5.0	112%	12.1	16.4	4.3	136%	23.2	26.8	3.6	116%
	TALBOT	40.0	42.8	2.8	107%	43.8	45.3	1.5	103%	11.9	17.3	5.4	145%	23.6	26.6	3.0	113%
	WICOMICO	39.8	42.4	2.6	107%	43.6	46.5	2.9	107%	12.0	17.0	5.0	142%	23.4	26.8	3.4	115%
	WORCESTER	40.2	39.8	-0.4	99%	44.1	43.3	-0.8	98%	12.0	14.6	2.6	122%	23.2	24.2	1.0	104%
	Regional Average	39.7	43.3	3.7	109%	43.5	46.8	3.2	107%	11.9	17.3	5.4	145%	23.4	26.9	3.5	115%
INDEPENDENT CITY OF BALTIMORE		41.1	40.0	-1.1	97%	45.5	44.8	-0.7	98%	11.6	15.8	4.2	136%	23.9	22.9	-1.0	96%
Statewide Average		39.8	39.4	-0.4	99%	43.7	43.4	-0.4	99%	11.7	15.2	3.5	130%	23.3	23.4	0.0	100%

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

Stream Flow Status Based on Thirty Day Average for 2023 August 15

Region	Stream Gage Location	Notes	Status Based on 30 Day Average		
			30 Day Average (cfs)	Percentage	Status
Western	Youghiogheny (near Oakland)		109	55%-60%	Normal
Western	Savage River (near Barton)		10.0	45%-50%	Normal
Western	Wills Creek (near Cumberland)		65.7	45%-50%	Normal
Western	Marsh Run (at Grimes)		5.1	25%-30%	Normal
Central	Catoctin Creek (near Middletown)		9.6	25%-30%	Normal
Central	Monocacy (Jug Bridge near Frederick)		125	10%-15%	Watch
Central	Patuxent (near Unity)		11.6	20%-25%	Watch
Central	Deer Cr (at Rocks)		83.1	45%-50%	Normal
Eastern	Choptank (near Greensboro)		64.7	60%-65%	Normal
Eastern	Nassawango Creek (near Snow Hill)		40.3	75%-80%	Normal
	Susquehanna (at Marietta)		20,439	75%-80%	Normal
	Potomac (at Little Falls)(Adjusted)		2,802	25%-30%	Normal

Notes:

Ground Water Status for 15 August 2023				
Region	USGS Well ID	Well Level[1]	Status	
Western	GA Bc 1	11.8[3]	Normal	Warning
	AL Ah 1	4.84[2]	Normal	
	WA Be 2	34.8[2]	Emergency	
	WA Bk 25	49.46[3]	Emergency	
Central	BA Dc 444	41.33[3]	Warning	Watch
	BA Ea 18	25.39[2]	Emergency	
	HA Bd 31	8.84[2]	Normal	
	HA Ca 23	7.02[2]	Normal	
	MO Cc 14	37.89[2]	Watch	
Eastern	QA Cg 69	3.75[2]	Normal	Normal
	WI Cg 20	6.27[2]	Normal	
	MC51-01	11.4[3]	Normal	
	SO Cf 2	2.25[3]	Normal	
Southern	CH Bg 12 (unconfined)	5.98[3]	Normal	***Normal***
	AA Cc 40 (confined)	NA[2]	Unknown	
	CA Fd 54 (confined)	242.13	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 2023-8-16
[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.

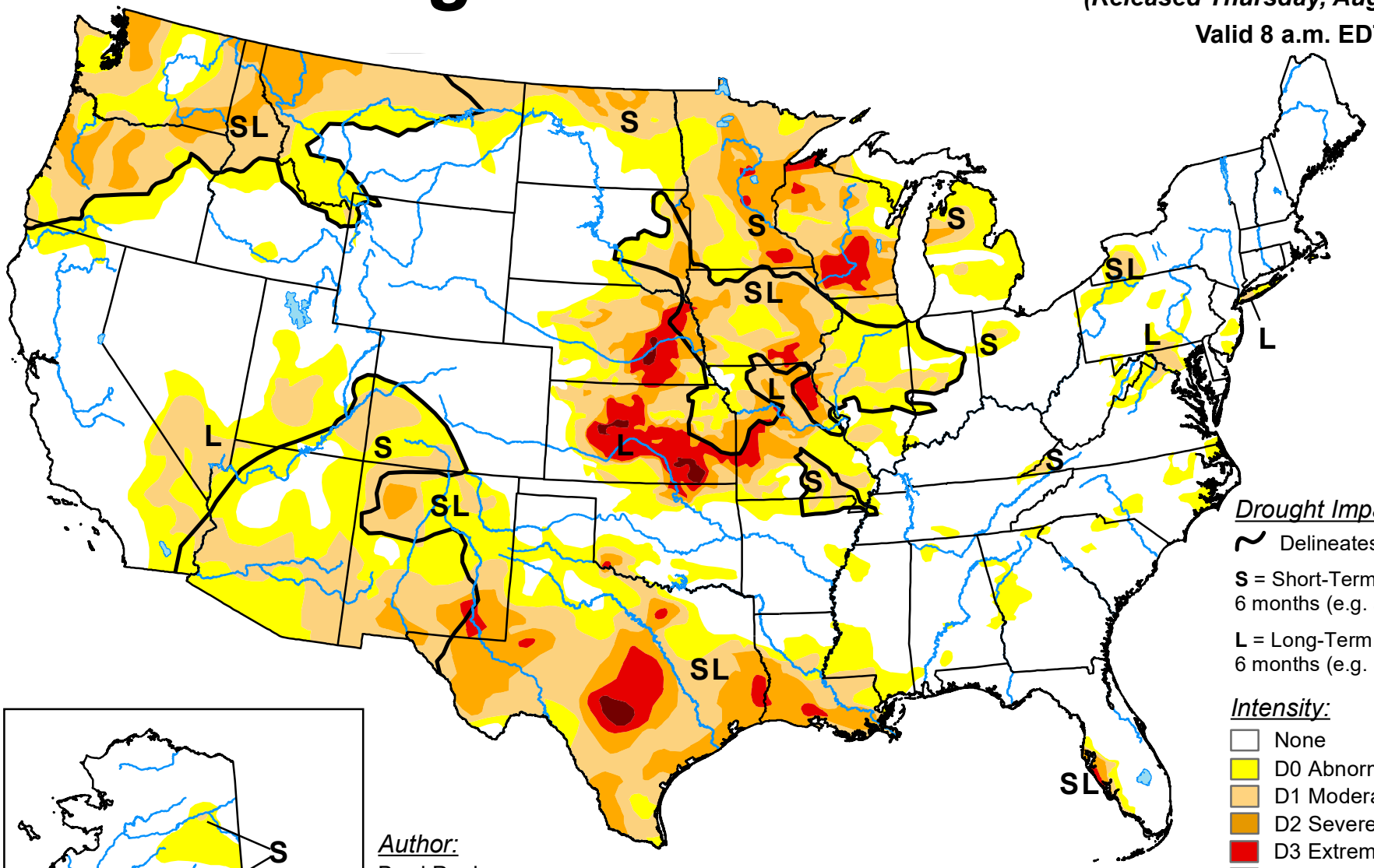
Selected ground water levels are available from USGS at:
http://md.water.usgs.gov/groundwater/
Data for other wells may be downloaded from:
USGS - NWIS Web Information for USA

U.S. Drought Monitor

August 8, 2023

(Released Thursday, Aug. 10, 2023)

Valid 8 a.m. EDT



Drought Impact Types:

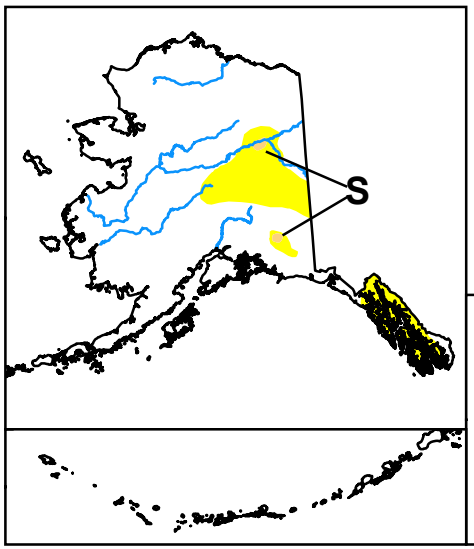
~ Delineates dominant impacts

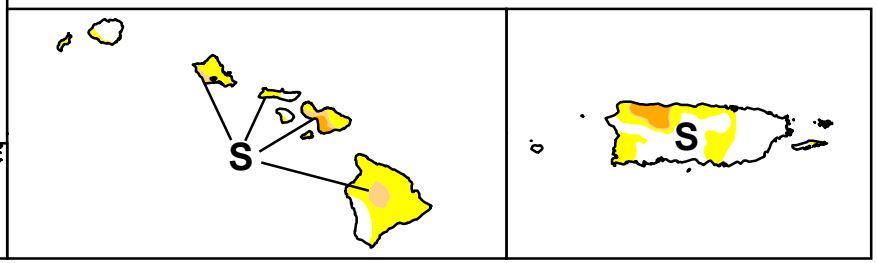
S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)

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





Author:
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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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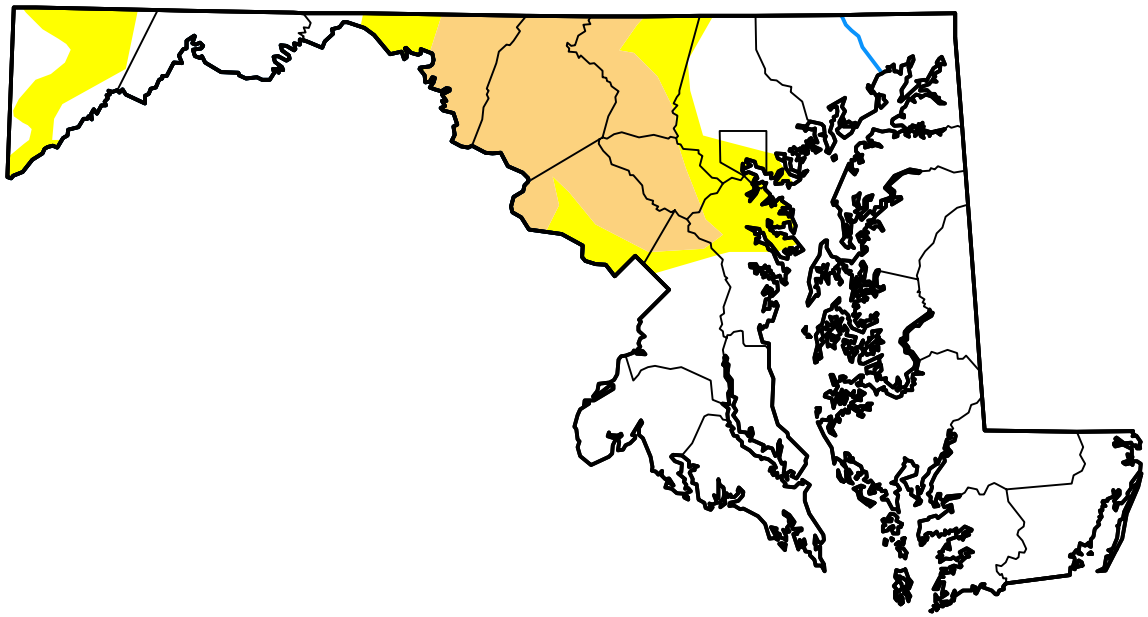
U.S. Drought Monitor

Maryland



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Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	67.43	32.57	19.42	0.00	0.00	0.00
Last Week *08-01-2023*	57.39	42.61	27.50	12.26	0.00	0.00
3 Months Ago *05-09-2023*	48.47	51.53	7.86	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 *08-09-2022*	98.77	1.23	0.00	0.00	0.00	0.00

Intensity:

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

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