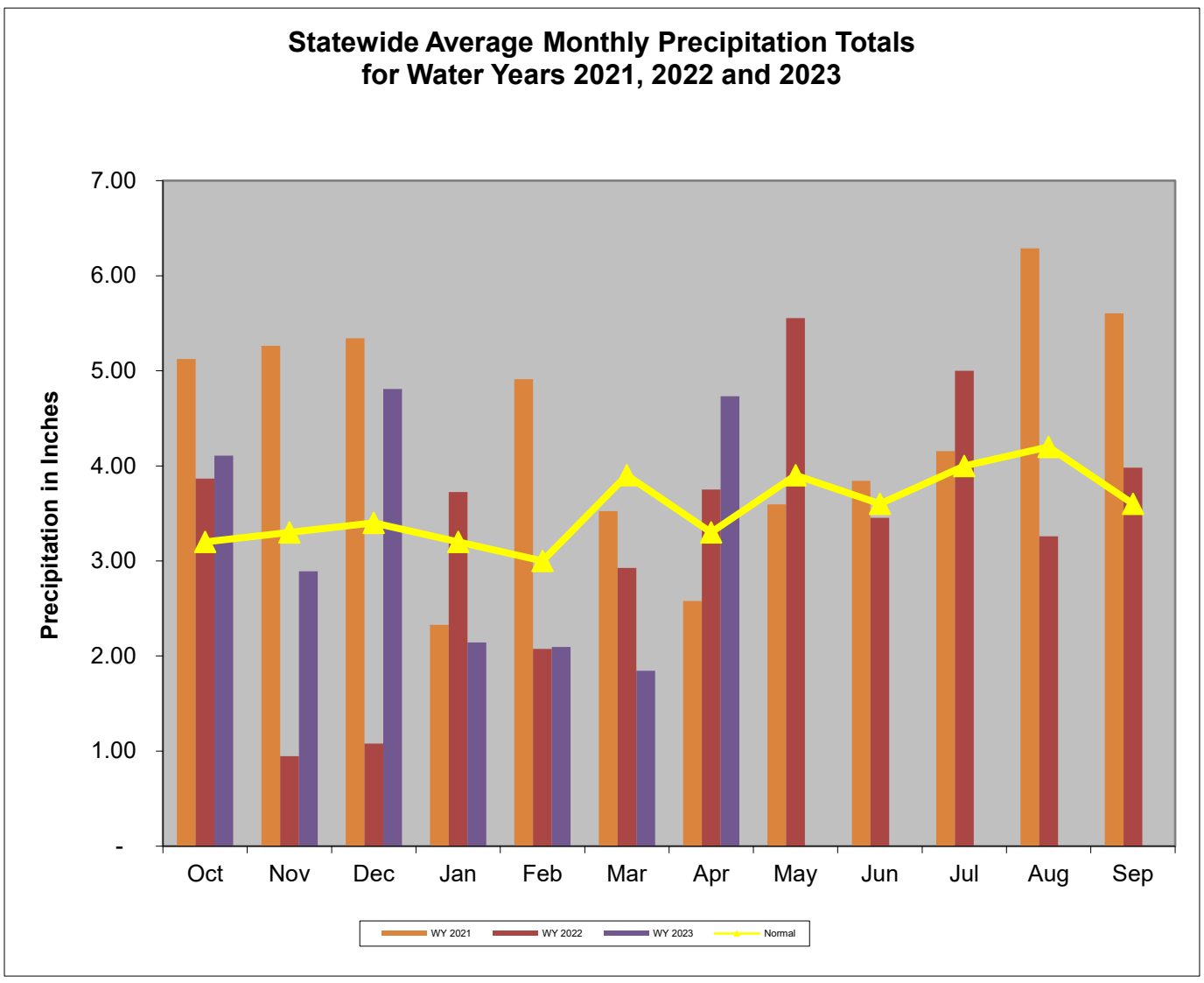
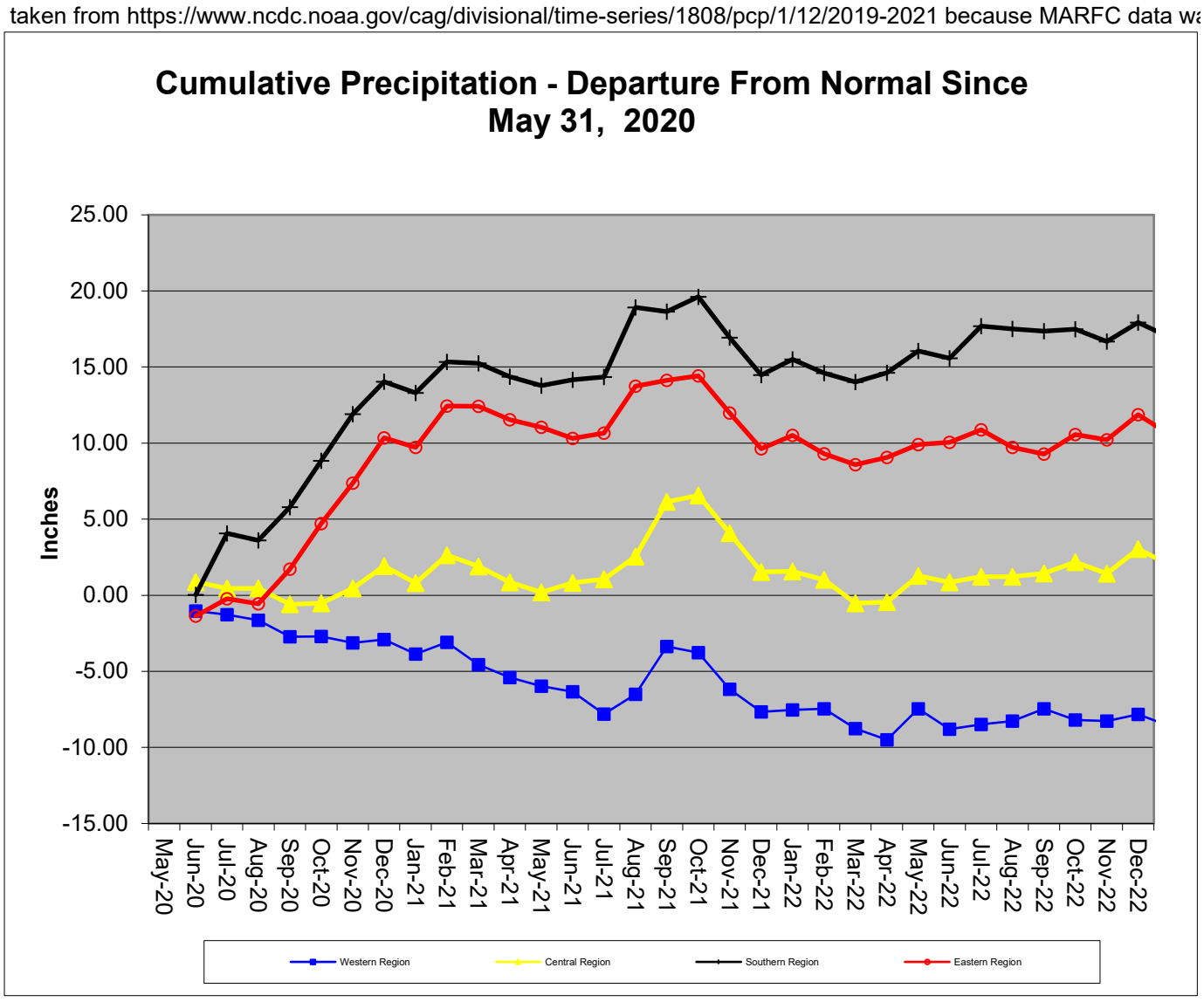
Overall Hydrologic Status for Maryland

Summary of Hydrologic Indicators for 30-April 2023					
	Rainfall	**Stream Flow**	**Groundwater**	**Reservoirs**	Overall Status
Western	Normal	Watch	Watch	Normal	Watch
Central	Normal	Watch	Watch	Normal	Watch
Eastern	Normal	Watch	Warning		Watch
Southern	Normal		Normal		Normal

Precipitation Indicators for Maryland Drought Regions April 30, 2023						
	WY to Date		Since Oct 31, 2022		Since April 30, 2022	
Regions	**Percent of Normal**	**Condition**	**Percent of Normal**	**Condition**	**Percent of Normal**	**Condition**
Western	87%	Normal	88%	Normal	98%	Normal
Central	95%	Normal	91%	Normal	101%	Normal
Eastern	100%	Normal	94%	Normal	100%	Normal
Southern	90%	Normal	88%	Normal	101%	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 30 April 2023 (WY 2023)

		Normal Rainfall, Actual Rainfall and Rainfall Departure from Normal in Inches															
		WY[1] To Date (Since September 30, 2022)				12 Months (Since April 30, 2022)				3 Months (Since January 31, 2023)				6 Months (Since October 31, 2022)			
	COUNTY	Normal	Actual	Depart	%	Normal	Actual	Depart	%	Normal	Actual	Depart	%	Normal	Actual	Depart	%
WESTERN REGION	ALLEGANY	21.9	19.7	-2.2	90%	40.1	39.6	-0.5	99%	9.4	7.5	-1.9	80%	19.1	17.4	-1.7	91%
	GARRETT	24.6	20.8	-3.8	85%	46.4	45.5	-0.9	98%	11.2	9.9	-1.3	88%	21.6	18.5	-3.1	86%
	WASHINGTON	22.3	19.2	-3.1	86%	40.6	39.0	-1.6	96%	9.4	6.9	-2.5	73%	19.2	17.1	-2.1	89%
	Regional Average	22.9	19.9	-3.0	87%	42.4	41.4	-1.0	98%	10.0	8.1	-1.9	81%	20.0	17.7	-2.3	88%
CENTRAL REGION	BALTIMORE COUNTY	25.3	23.9	-1.4	94%	45.5	46.7	1.2	103%	10.7	8.8	-1.9	82%	21.4	18.4	-3.0	86%
	CARROLL	24.1	22.3	-1.8	93%	43.8	41.7	-2.1	95%	10.3	9.1	-1.2	88%	20.5	18.8	-1.7	92%
	CECIL	24.4	25.3	0.9	104%	44.4	48.2	3.8	109%	10.5	9.2	-1.3	88%	20.8	19.6	-1.2	94%
	FREDERICK	23.5	21.6	-1.9	92%	42.7	39.7	-3.0	93%	10.0	8.6	-1.4	86%	20.1	18.9	-1.2	94%
	HARFORD	25.2	25.9	0.7	103%	46.0	51.2	5.2	111%	10.5	8.2	-2.3	78%	21.3	19.3	-2.0	91%
	HOWARD	24.7	21.9	-2.8	89%	44.5	43.0	-1.5	97%	10.6	8.3	-2.3	78%	21.0	18.3	-2.7	87%
	MONTGOMERY	23.4	21.1	-2.3	90%	43.1	44.1	1.0	102%	10.0	7.9	-2.1	79%	19.9	18.0	-1.9	90%
	Regional Average	24.4	23.1	-1.2	95%	44.3	44.9	0.7	101%	10.4	8.6	-1.8	83%	20.7	18.8	-2.0	91%
SOUTHERN REGION	ANNE ARUNDEL	23.0	21.1	-1.9	92%	42.4	43.6	1.2	103%	10.1	7.9	-2.2	78%	19.5	16.6	-2.9	85%
	CALVERT	24.3	22.2	-2.1	91%	44.3	43.4	-0.9	98%	10.4	8.7	-1.7	84%	20.7	18.3	-2.4	88%
	CHARLES	23.4	20.9	-2.5	89%	42.8	41.6	-1.2	97%	9.9	8.0	-1.9	81%	19.9	18.1	-1.8	91%
	PRINCE GEORGES	23.2	19.5	-3.7	84%	42.4	41.3	-1.1	97%	9.9	7.5	-2.4	76%	19.6	16.0	-3.6	82%
	ST MARYS	24.2	22.7	-1.5	94%	44.0	48.0	4.0	109%	10.4	8.9	-1.5	86%	20.6	19.0	-1.6	92%
	Regional Average	23.6	21.3	-2.3	90%	43.2	43.6	0.4	101%	10.1	8.2	-1.9	81%	20.1	17.6	-2.5	88%
EASTERN REGION	CAROLINE	23.7	25.0	1.3	105%	43.3	45.3	2.0	105%	10.3	10.1	-0.2	98%	20.3	19.9	-0.4	98%
	DORCHESTER	23.8	24.5	0.7	103%	43.6	44.9	1.3	103%	10.6	9.3	-1.3	88%	20.4	19.5	-0.9	96%
	KENT	23.8	24.3	0.5	102%	43.5	43.8	0.3	101%	10.3	9.7	-0.6	94%	20.3	19.2	-1.1	95%
	QUEEN ANNES	23.6	24.9	1.3	106%	43.1	44.7	1.6	104%	10.3	10.1	-0.2	98%	20.2	19.4	-0.8	96%
	SOMERSET	23.6	24.1	0.5	102%	43.0	42.0	-1.0	98%	10.7	8.6	-2.1	80%	20.4	19.9	-0.5	98%
	TALBOT	24.0	23.6	-0.4	98%	43.8	44.9	1.1	103%	10.4	9.3	-1.1	89%	20.5	18.9	-1.6	92%
	WICOMICO	24.2	22.7	-1.5	94%	43.8	44.3	0.5	101%	10.9	8.6	-2.3	79%	21.0	18.9	-2.1	90%
	WORCESTER	24.7	22.3	-2.4	90%	44.3	40.2	-4.1	91%	10.8	8.3	-2.5	77%	21.3	18.4	-2.9	86%
	Regional Average	23.9	23.9	0.0	100%	43.6	43.8	0.2	100%	10.5	9.3	-1.3	88%	20.6	19.3	-1.3	94%
INDEPENDENT CITY OF BALTIMORE		25.0	23.5	-1.5	94%	45.2	46.3	1.1	102%	10.7	8.8	-1.9	82%	21.1	18.0	-3.1	85%
Statewide Average		23.9	22.6	-1.3	95%	43.6	43.9	0.3	101%	10.3	8.7	-1.7	84%	20.4	18.5	-1.9	91%

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

Stream Flow Status Based on Thirty Day Average for 2023 April 30

Region	Stream Gage Location	Notes	Status Based on 30 Day Average		
			30 Day Average (cfs)	Percentage	Status
Western	Youghiogheny (near Oakland)		174	5%-10%	Warning
Western	Savage River (near Barton)		47.3	5%-10%	Warning
Western	Wills Creek (near Cumberland)		278	10%-15%	Watch
Western	Marsh Run (at Grimes)		10.5	20%-25%	Watch
Central	Catoctin Creek (near Middletown)		48.6	5%-10%	Warning
Central	Monocacy (Jug Bridge near Frederick)		646	10%-15%	Watch
Central	Patuxent (near Unity)		28.2	10%-15%	Watch
Central	Deer Cr (at Rocks)		102.0	20%-25%	Watch
Eastern	Choptank (near Greensboro)		226.0	60%-65%	Normal
Eastern	Nassawango Creek (near Snow Hill)		21.5	10%-15%	Watch
	Susquehanna (at Marietta)		35,970	5%-10%	Warning
	Potomac (at Little Falls)(Adjusted)		6,923	0%-5%	Emergency

Notes:

Ground Water Status for 30 April 2023				
Region	USGS Well ID	Well Level[1]	Status	
Western	GA Bc 1	14.66	Warning	Watch
	AL Ah 1	2.52 [2]	Normal	
	WA Be 2	31.35	Watch	
	WA Bk 25	47.80	Warning	
Central	BA Dc 444	39.50	Watch	Watch
	BA Ea 18	24.24	Watch	
	HA Bd 31	10.18	Watch	
	HA Ca 23	7.11	Watch	
	MO Cc 14	27.33	Normal	
Eastern	QA Cg 69	3.55	Normal	Warning
	WI Cg 20	5.12	Watch	
	MC51-01	13.60	Warning	
	SO Cf 2	3.29	Emergency	
Southern	CH Bg 12 (unconfined)	3.32	Warning	***Normal***
	AA Cc 40 (confined)	NA[2]	Unknown	
	CA Fd 54 (confined)	237.12	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 2023-5-8
[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.

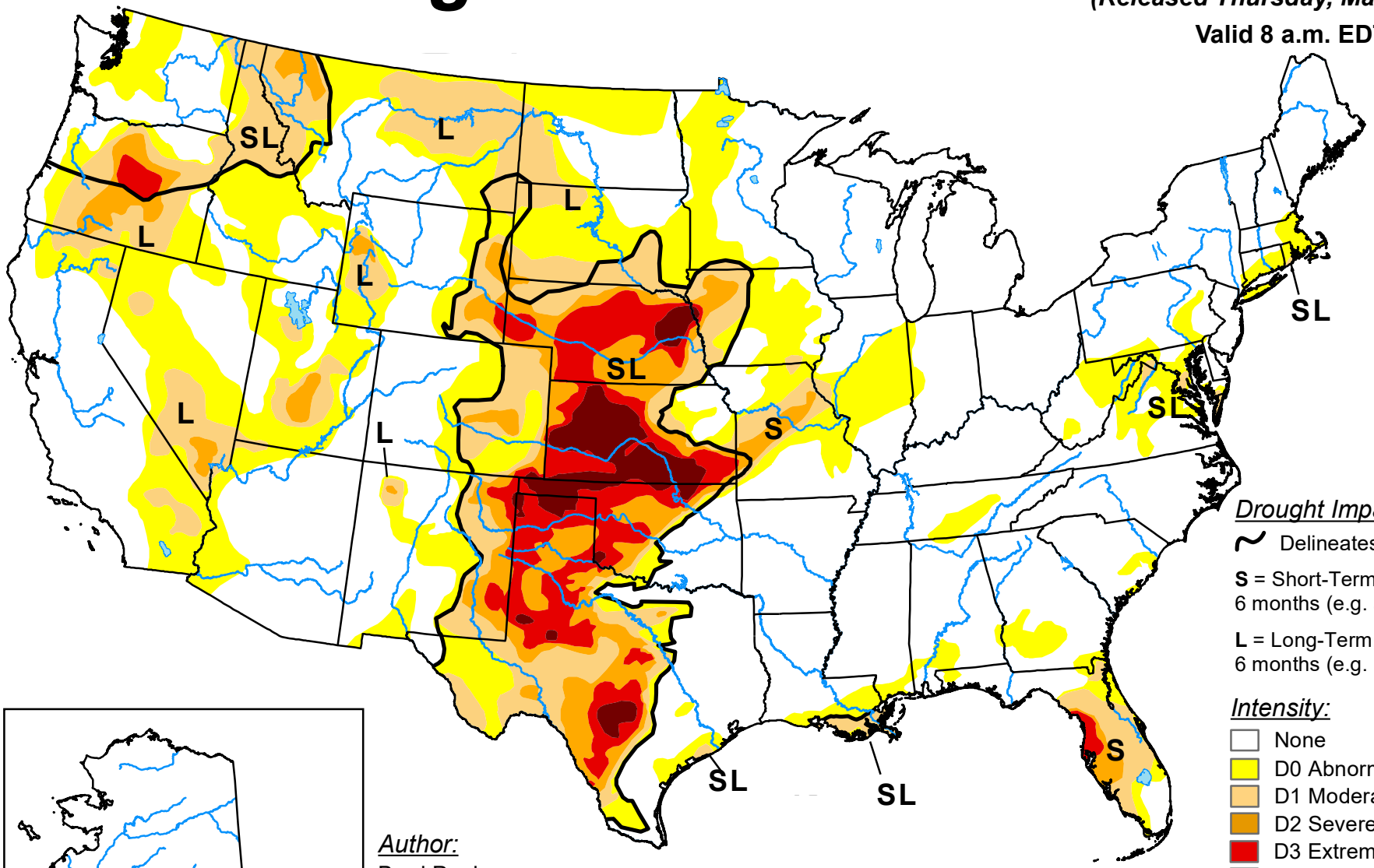
Selected ground water levels are available from USGS at:
http://md.water.usgs.gov/groundwater/
Data for other wells may be downloaded from:
USGS - NWIS Web Information for USA

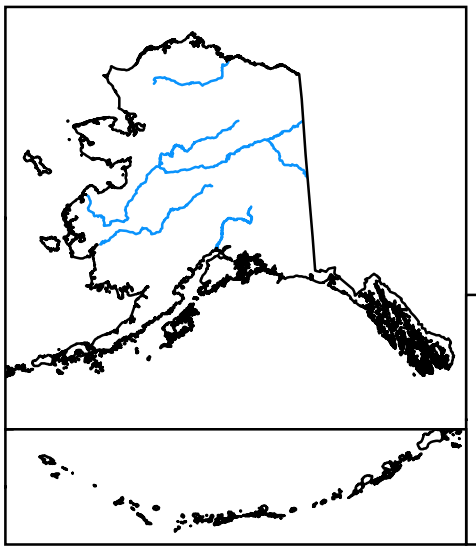
U.S. Drought Monitor

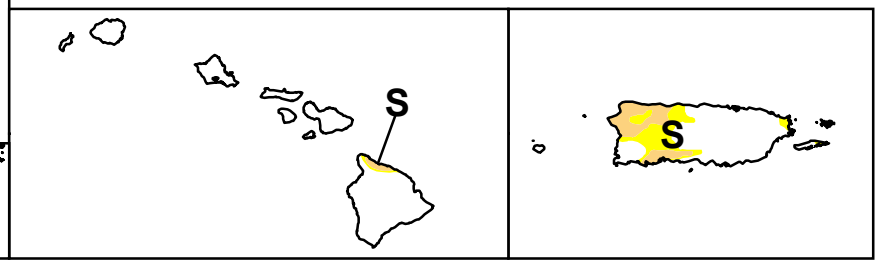
May 2, 2023

(Released Thursday, May. 4, 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:

Brad Pugh

CPC/NOAA

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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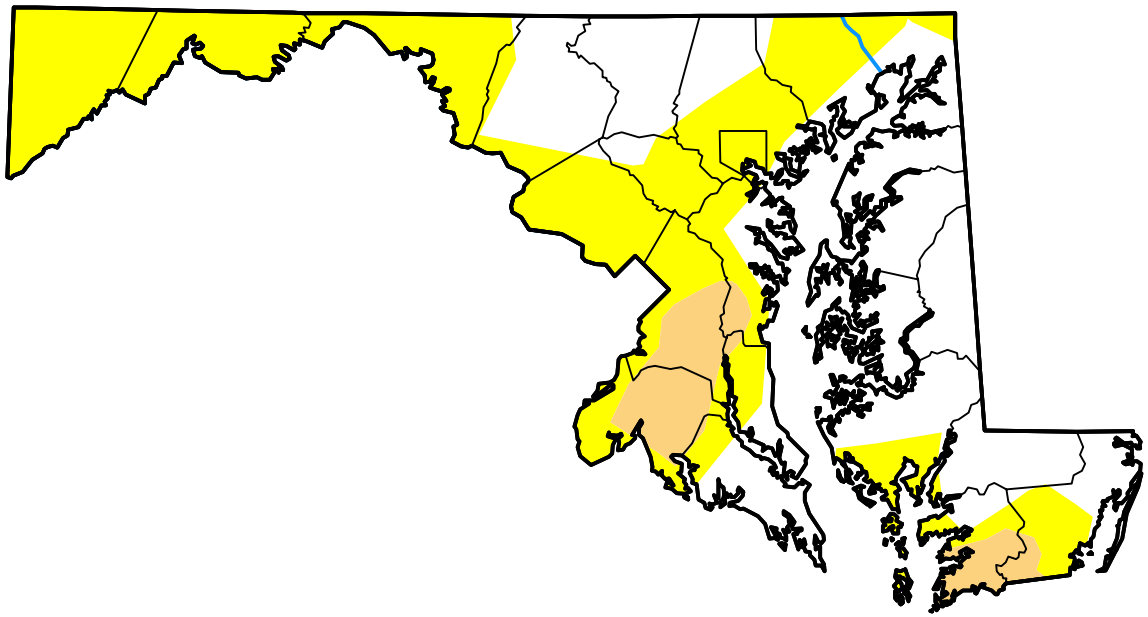
U.S. Drought Monitor

Maryland



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Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	46.56	53.44	7.86	0.00	0.00	0.00
Last Week *04-25-2023*	3.00	97.00	62.98	0.00	0.00	0.00
3 Months Ago *01-31-2023*	94.45	5.55	0.00	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 *05-03-2022*	39.09	60.91	2.78	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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