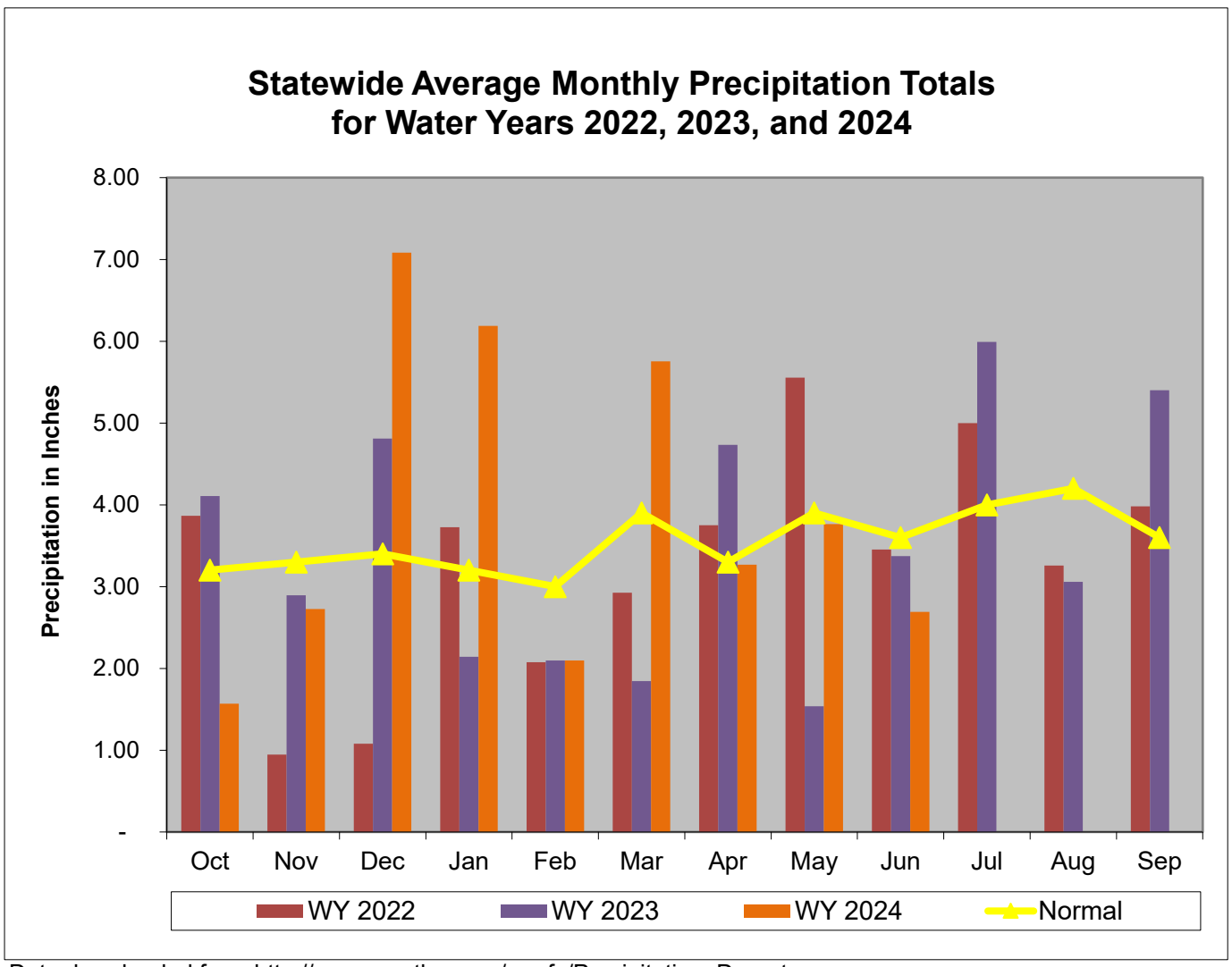
Overall Hydrologic Status for Maryland

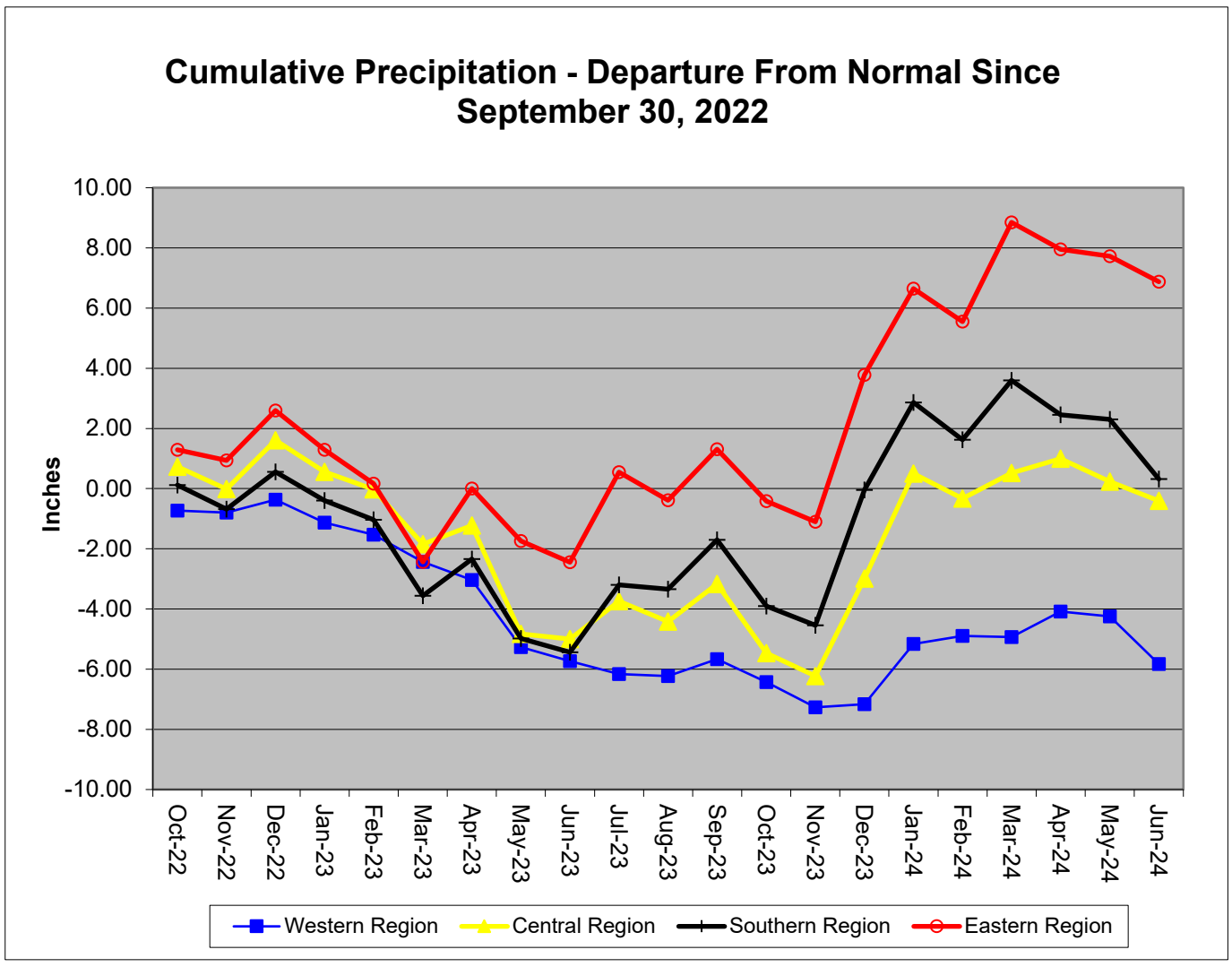
Summary of Hydrologic Indicators for 30 June 2024					
	Rainfall	**Stream Flow**	**Groundwater**	**Reservoirs**	Overall Status
Western	Normal	Watch	Normal	Normal	Normal
Central	Normal	Normal	Normal	Normal	Normal
Eastern	Normal	Watch	Watch		Watch
Southern	Normal		Watch		Normal

Notes: Some Groundwater Level Measurements from Central MD are not available as of 7/8/2024

Precipitation Indicators for Maryland Drought Regions June 30, 2024						
	Since Sept 30, 2023		Since Dec 31, 2023		Since June 30, 2023	
Regions	**Percent of Normal**	**Condition**	**Percent of Normal**	**Condition**	**Percent of Normal**	**Condition**
Western	99%	Normal	106%	Normal	100%	Normal
Central	109%	Normal	112%	Normal	110%	Normal
Eastern	117%	Normal	114%	Normal	121%	Normal
Southern	106%	Normal	102%	Normal	113%	Normal
WY or Water Year begins on October 1.						



Data downloaded from http://www.weather.gov/marfc/Precipitation_Departures



Precipitation in Maryland Counties
as of 30 June 2024 (WY 2024)

		Normal Rainfall, Actual Rainfall and Rainfall Departure from Normal in Inches															
		WY[1] To Date (Since September 30, 2023)				12 Months (Since June 30, 2023)				3 Months (Since March 31, 2024)				6 Months (Since December 31, 2023)			
	COUNTY	Normal	Actual	Depart	%	Normal	Actual	Depart	%	Normal	Actual	Depart	%	Normal	Actual	Depart	%
WESTERN REGION	ALLEGANY	29.0	28.8	-0.2	99%	39.3	39.6	0.3	101%	11.3	10.9	-0.4	97%	20.1	21.5	1.4	107%
	GARRETT	34.7	36.7	2.0	106%	47.1	48.9	1.8	104%	13.2	14.4	1.2	109%	24.3	28.0	3.7	115%
	WASHINGTON	29.1	26.7	-2.4	92%	39.6	37.1	-2.5	94%	10.9	7.3	-3.6	67%	19.7	18.5	-1.2	94%
	Regional Average	30.9	30.7	-0.2	99%	42.0	41.9	-0.1	100%	11.8	10.9	-0.9	92%	21.3	22.7	1.3	106%
CENTRAL REGION	BALTIMORE COUNTY	33.7	37.0	3.3	110%	45.6	52.3	6.7	115%	11.9	11.0	-0.9	92%	22.5	25.5	3.0	113%
	CARROLL	31.9	32.4	0.5	102%	43.6	43.2	-0.4	99%	11.6	10.1	-1.5	87%	21.4	22.6	1.2	106%
	CECIL	32.6	41.8	9.2	128%	45.0	57.2	12.2	127%	11.6	12.9	1.3	112%	21.8	28.4	6.6	130%
	FREDERICK	31.4	32.3	0.9	103%	42.4	42.8	0.4	101%	11.8	10.9	-0.9	93%	21.3	23.2	1.9	109%
	HARFORD	33.3	38.8	5.5	117%	45.9	54.3	8.4	118%	11.9	11.6	-0.3	97%	22.2	26.7	4.5	120%
	HOWARD	33.1	33.7	0.6	102%	44.5	47.3	2.8	106%	12.0	10.5	-1.6	87%	22.3	23.2	0.9	104%
	MONTGOMERY	31.5	30.8	-0.7	98%	42.8	44.8	2.1	105%	11.7	9.0	-2.7	77%	21.3	21.2	-0.1	100%
	Regional Average	32.5	35.3	2.8	109%	44.3	48.8	4.6	110%	11.8	10.9	-0.9	92%	21.8	24.4	2.6	112%
SOUTHERN REGION	ANNE ARUNDEL	31.6	34.3	2.7	108%	42.9	50.6	7.7	118%	11.4	8.4	-3.0	73%	21.3	22.1	0.8	104%
	CALVERT	32.5	34.3	1.8	105%	44.2	50.2	6.0	114%	11.8	7.5	-4.3	63%	22.0	21.4	-0.6	97%
	CHARLES	31.1	33.3	2.2	107%	42.6	47.6	5.0	112%	11.2	8.3	-2.9	74%	20.9	21.6	0.7	103%
	PRINCE GEORGES	31.4	31.5	0.1	100%	42.6	47.7	5.1	112%	11.4	7.7	-3.7	67%	21.0	20.4	-0.6	97%
	ST MARYS	31.9	35.2	3.3	110%	43.9	48.9	5.0	111%	11.2	8.7	-2.5	78%	21.5	23.0	1.5	107%
	Regional Average	31.7	33.7	2.0	106%	43.2	49.0	5.8	113%	11.4	8.1	-3.3	71%	21.3	21.7	0.4	102%
EASTERN REGION	CAROLINE	31.6	38.0	6.4	120%	43.5	57.7	14.2	133%	11.3	8.8	-2.5	78%	21.4	24.9	3.5	116%
	DORCHESTER	78.4	81.8	3.4	104%	44.1	52.6	8.5	119%	11.5	7.1	-4.4	62%	22.0	22.4	0.4	102%
	KENT	76.6	82.9	6.3	108%	43.6	53.9	10.3	124%	11.4	10.5	-0.9	92%	21.5	25.6	4.1	119%
	QUEEN ANNES	77.2	82.8	5.6	107%	43.4	53.7	10.3	124%	11.3	9.8	-1.5	87%	21.4	24.9	3.5	116%
	SOMERSET	75.0	82.9	7.9	111%	43.3	52.3	9.0	121%	10.4	9.3	-1.1	89%	21.1	25.9	4.8	123%
	TALBOT	75.3	80.0	4.7	106%	44.0	52.0	8.0	118%	11.5	9.3	-2.2	81%	21.8	24.4	2.6	112%
	WICOMICO	77.0	83.9	6.9	109%	44.4	55.0	10.6	124%	11.2	10.2	-1.0	91%	22.1	26.0	3.9	118%
	WORCESTER	73.1	76.4	3.3	104%	44.4	48.1	3.7	108%	10.4	8.2	-2.2	78%	21.4	23.4	2.0	109%
	Regional Average	70.5	76.1	5.6	108%	43.8	53.2	9.3	121%	11.1	9.1	-2.0	82%	21.6	24.7	3.1	114%
INDEPENDENT CITY OF BALTIMORE		33.7	37.0	3.3	110%	45.6	52.3	6.7	115%	11.9	11.0	-0.9	92%	22.5	25.5	3.0	113%
Statewide Average		44.9	48.1	3.2	107%	43.7	49.6	5.9	114%	11.5	9.7	-1.8	85%	21.6	23.8	2.2	110%

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

Stream Flow Status Based on Thirty Day Average for 2024 June 30

Region	Stream Gage Location	Notes	Status Based on 30 Day Average		
			30 Day Average (cfs)	Percentage	Status
Western	Youghiogheny (near Oakland)		94.3	30%-35%	Normal
Western	Savage River (near Barton)		8.7	0%-5%	Emergency
Western	Wills Creek (near Cumberland)		69	5%-10%	Warning
Western	Marsh Run (at Grimes)		11.4	50%-55%	Normal
Central	Catoctin Creek (near Middletown)		33.4	35%-40%	Normal
Central	Monocacy (Jug Bridge near Frederick)		310	15%-20%	Watch
Central	Patuxent (near Unity)		16.1	10%-15%	Watch
Central	Deer Cr (at Rocks)		101.3	35%-40%	Normal
Eastern	Choptank (near Greensboro)		29.7	10%-15%	Watch
Eastern	Nassawango Creek (near Snow Hill)		7.8	20%-25%	Watch
	Susquehanna (at Marietta)		16,207	25%-30%	Normal
	Potomac (at Little Falls)(Adjusted)		3,818	10%-15%	Watch

Notes:

Ground Water Status for 30 June 2024				
Region	USGS Well ID	Well Level[1]	Status	
Western	GA Bc 1	15.44	Normal	Normal
	AL Ah 1	4.94	Normal	
	WA Be 2	31.92	Normal	
	WA Bk 25	48.39 [3]	Warning	
Central	BA Dc 444	38.44 [3]	Normal	Normal
	BA Ea 18	20.63	Normal	
	CL Ad 47	3.5 [3]	Watch	
	Fr Bd 96	28.10	Warning	
	Fr Df 35	55.62	Normal	
	HA Bd 31	8.92 [2]	Normal	
	HA Ca 23	5.89 [2]	Normal	
	MO Cc 14	32.89	Normal	
Eastern	QA Cg 69	4.13	Normal	Watch
	WI Cg 20	7.42	Emergency	
	MC51-01	11.61	Normal	
	SO Cf 2	4.52 [3]	Watch	
Southern	CH Bg 12 (unconfined)	7.04 [3]	Warning	***Watch***
	CA Fd 54 (confined)	242.05	On Trend[4]	

[1] - Measurement of water level as feet below land surface
[2] - Not Available as of 2024-07-08
[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.

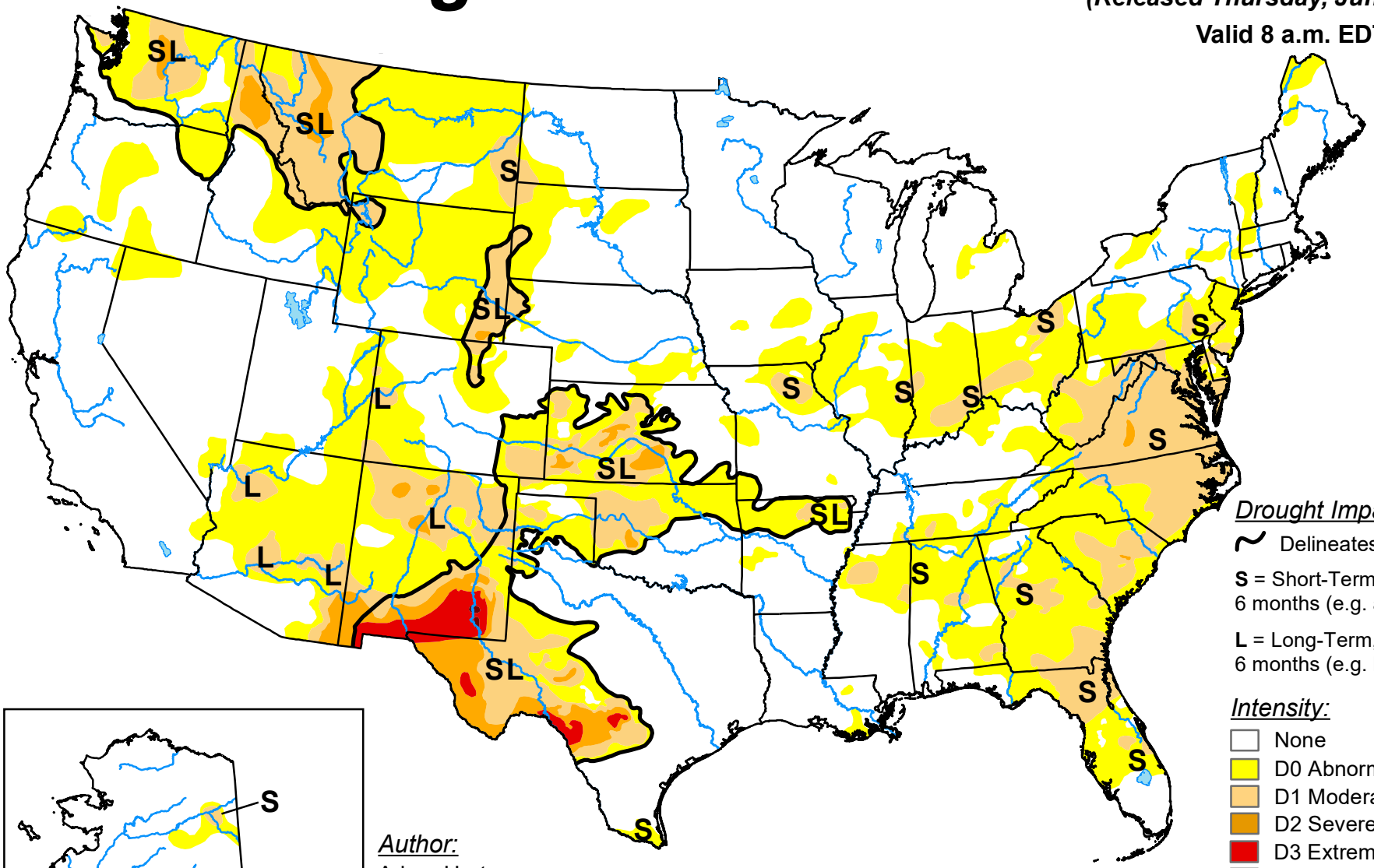
Selected ground water levels are available from USGS at:
http://md.water.usgs.gov/groundwater/
Data for other wells may be downloaded from:
USGS - NWIS Web Information for USA

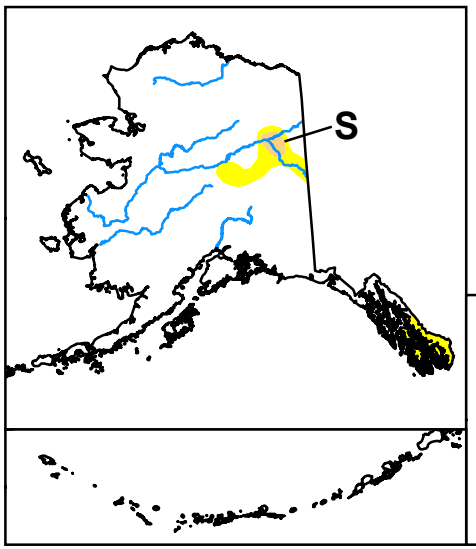
U.S. Drought Monitor

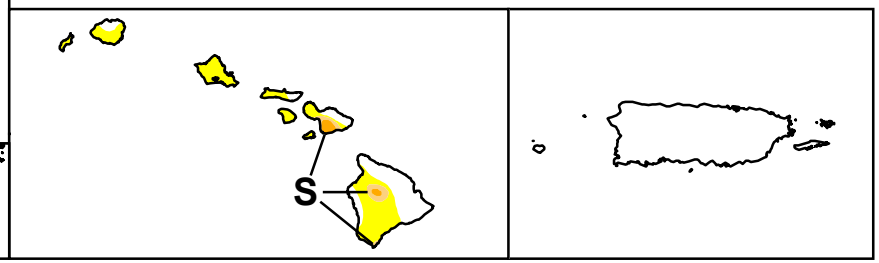
June 25, 2024

(Released Thursday, Jun. 27, 2024)

Valid 8 a.m. EDT







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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

USDA NDMC NOAA

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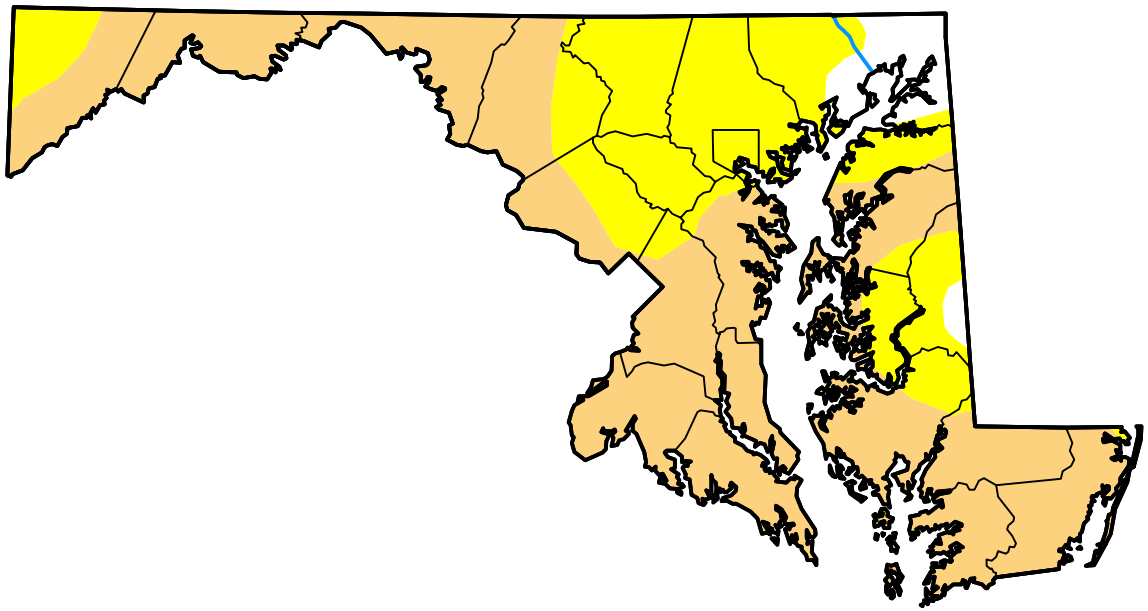
U.S. Drought Monitor

Maryland



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Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	4.70	95.30	60.51	0.00	0.00	0.00
Last Week *06-18-2024*	14.54	85.46	5.44	0.00	0.00	0.00
3 Months Ago *03-26-2024*	100.00	0.00	0.00	0.00	0.00	0.00
Start of Calendar Year *01-02-2024*	70.35	29.65	0.00	0.00	0.00	0.00
Start of Water Year *09-26-2023*	63.11	36.89	3.30	0.47	0.00	0.00
One Year Ago *06-27-2023*	6.78	93.22	60.18	22.54	0.00	0.00

Intensity:

- None
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- D1 Moderate Drought
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