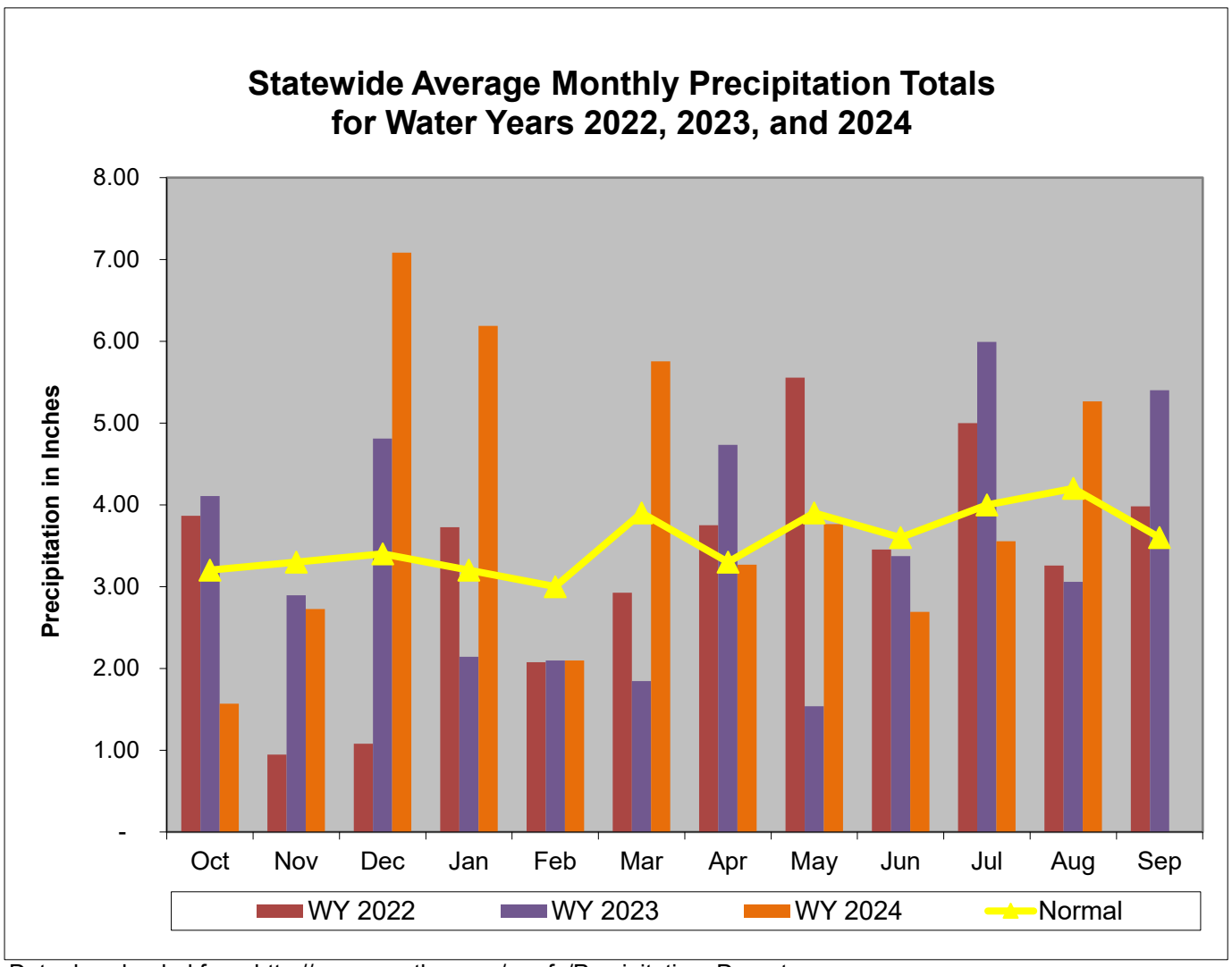
Overall Hydrologic Status for Maryland

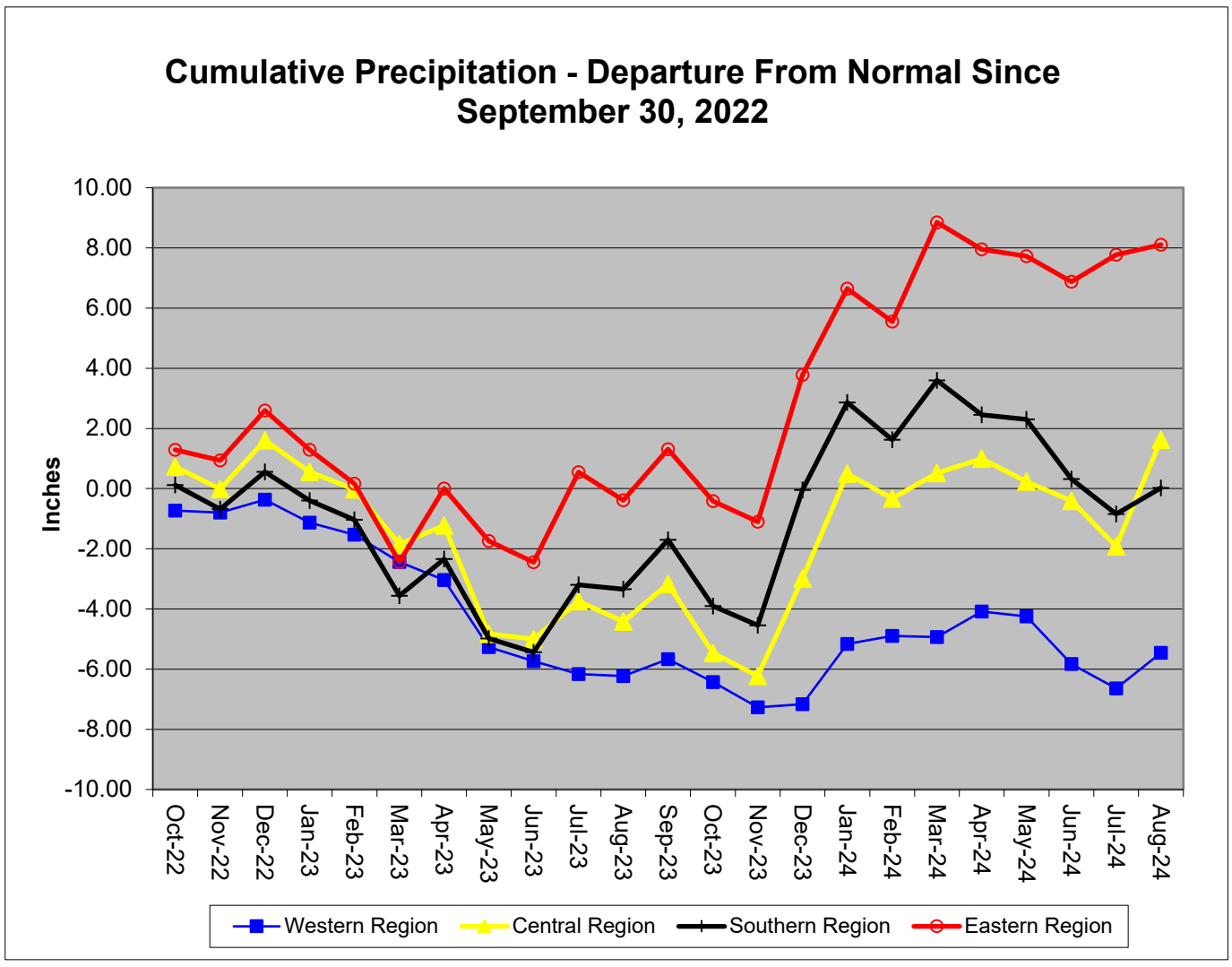
Summary of Hydrologic Indicators for 31 August 2024					
	Rainfall	**Stream Flow**	**Groundwater**	**Reservoirs**	Overall Status
Western	Normal	Normal	Watch	Normal	Watch
Central	Normal	Normal	Normal	Normal	Normal
Eastern	Normal	Normal	Normal		Normal
Southern	Normal		Watch		Normal

Notes:WSSC has declared a drought Watch: https://www.mwcog.org/newsroom/2024/07/29/council-of-governments-declares-regional-drought-watch/

Precipitation Indicators for Maryland Drought Regions August 31, 2024						
	Since Sept 30, 2023		Since Feb 29, 2024		Since August 30, 2023	
Regions	**Percent of Normal**	**Condition**	**Percent of Normal**	**Condition**	**Percent of Normal**	**Condition**
Western	101%	Normal	98%	Normal	102%	Normal
Central	112%	Normal	108%	Normal	114%	Normal
Eastern	117%	Normal	111%	Normal	119%	Normal
Southern	104%	Normal	93%	Normal	108%	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 31 August 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 August 30, 2023)				3 Months (Since May 31, 2024)				6 Months (Since February 29, 2024)			
	COUNTY	Normal	Actual	Depart	%	Normal	Actual	Depart	%	Normal	Actual	Depart	%	Normal	Actual	Depart	%
WESTERN REGION	ALLEGANY	35.8	35.8	0.0	100%	39.3	40.3	1.0	103%	10.5	8.8	-1.7	84%	21.7	21.2	-0.5	98%
	GARRETT	43.4	43.1	-0.2	99%	47.1	46.9	-0.1	100%	13.2	9.2	-4.0	70%	26.0	24.9	-1.0	96%
	WASHINGTON	37.6	38.4	0.8	102%	41.4	42.8	1.4	103%	12.2	14.2	2.0	116%	22.9	22.7	-0.2	99%
	Regional Average	38.9	39.1	0.2	101%	42.6	43.3	0.8	102%	11.9	10.7	-1.2	90%	23.5	22.9	-0.6	98%
CENTRAL REGION	BALTIMORE COUNTY	41.2	46.5	5.3	113%	45.6	52.6	7.0	115%	11.2	12.5	1.4	112%	23.5	25.5	2.0	109%
	CARROLL	39.3	43.2	3.9	110%	43.6	47.8	4.2	110%	11.1	13.2	2.1	119%	22.8	25.2	2.4	110%
	CECIL	40.6	50.2	9.6	124%	45.0	56.0	11.0	124%	11.9	13.9	2.0	117%	23.7	27.7	4.0	117%
	FREDERICK	38.3	42.0	3.7	110%	42.4	46.7	4.3	110%	10.7	12.3	1.6	115%	22.4	24.7	2.3	110%
	HARFORD	41.5	46.4	4.9	112%	45.9	52.0	6.1	113%	12.1	12.0	-0.1	99%	24.1	24.5	0.4	102%
	HOWARD	40.4	44.1	3.8	109%	44.5	49.7	5.3	112%	11.2	13.0	1.8	116%	23.3	25.2	2.0	108%
	MONTGOMERY	38.7	41.1	2.4	106%	42.8	47.2	4.4	110%	11.1	12.1	1.0	109%	22.7	23.3	0.6	103%
	Regional Average	40.0	44.8	4.8	112%	44.2	50.3	6.0	114%	11.3	12.7	1.4	112%	23.2	25.2	2.0	108%
SOUTHERN REGION	ANNE ARUNDEL	39.0	43.1	4.1	110%	42.9	48.9	6.0	114%	11.1	10.5	-0.6	95%	22.7	22.7	-0.0	100%
	CALVERT	40.3	40.9	0.6	101%	44.2	47.3	3.1	107%	11.8	8.1	-3.6	69%	23.6	20.6	-3.0	87%
	CHARLES	38.7	40.0	1.3	103%	42.6	44.8	2.2	105%	11.5	8.3	-3.2	72%	22.6	20.6	-2.0	91%
	PRINCE GEORGES	38.8	39.4	0.6	101%	42.6	45.0	2.4	106%	11.2	9.2	-2.0	82%	22.5	20.6	-1.9	91%
	ST MARYS	40.0	42.0	2.0	105%	43.9	47.0	3.1	107%	11.8	9.9	-1.9	84%	23.4	22.3	-1.1	95%
	Regional Average	39.4	41.1	1.7	104%	43.2	46.6	3.4	108%	11.5	9.2	-2.3	80%	23.0	21.4	-1.6	93%
EASTERN REGION	CAROLINE	39.7	47.4	7.7	119%	43.5	53.9	10.4	124%	11.8	11.9	0.1	101%	23.4	25.7	2.3	110%
	DORCHESTER	86.7	91.9	5.1	106%	44.1	50.8	6.6	115%	12.3	12.0	-0.3	98%	23.9	24.4	0.4	102%
	KENT	84.1	90.4	6.3	108%	43.6	51.6	8.0	118%	11.2	11.4	0.2	102%	22.9	24.3	1.4	106%
	QUEEN ANNES	84.8	91.3	6.6	108%	43.4	51.7	8.4	119%	11.3	11.5	0.2	102%	22.9	24.8	2.0	109%
	SOMERSET	83.7	93.4	9.6	111%	43.3	54.2	10.8	125%	12.2	14.1	1.9	116%	23.3	28.8	5.4	123%
	TALBOT	83.4	88.9	5.5	107%	44.1	49.9	5.8	113%	11.9	11.7	-0.2	98%	23.6	25.1	1.5	106%
	WICOMICO	83.7	93.8	10.1	112%	42.6	55.6	13.0	131%	10.5	11.7	1.2	112%	22.1	28.0	5.9	127%
	WORCESTER	81.8	85.2	3.4	104%	44.4	49.3	4.9	111%	12.2	12.2	-0.0	100%	23.4	24.9	1.5	106%
	Regional Average	78.5	85.3	6.8	109%	43.6	52.1	8.5	119%	11.7	12.1	0.4	103%	23.2	25.7	2.6	111%
INDEPENDENT CITY OF BALTIMORE		41.2	46.5	5.3	113%	45.6	52.6	7.0	115%	11.2	12.5	1.4	112%	23.5	25.5	2.0	109%
Statewide Average		52.6	56.9	4.3	108%	43.7	49.4	5.7	113%	11.5	11.5	-0.0	100%	23.2	24.3	1.1	105%

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

Stream Flow Status Based on Thirty Day Average for 2024 August 31

Region	Stream Gage Location	Notes	Status Based on 30 Day Average		
			30 Day Average (cfs)	Percentage	Status
Western	Youghiogheny (near Oakland)		28.6	20%-25%	Watch
Western	Savage River (near Barton)		6.7	35%-40%	Normal
Western	Wills Creek (near Cumberland)		64	55%-60%	Normal
Western	Marsh Run (at Grimes)		9.3	70%-75%	Normal
Central	Catoctin Creek (near Middletown)		26.3	80%-85%	Normal
Central	Monocacy (Jug Bridge near Frederick)		854	90%-95%	Normal
Central	Patuxent (near Unity)		33.3	80%-85%	Normal
Central	Deer Cr (at Rocks)		87.1	60%-65%	Normal
Eastern	Choptank (near Greensboro)		21.2	30%-35%	Normal
Eastern	Nassawango Creek (near Snow Hill)		4.7	25%-30%	Normal
	Susquehanna (at Marietta)		46,180	95%-100%	Normal
	Potomac (at Little Falls)(Adjusted)		7,336	80%-85%	Normal

Notes:

Ground Water Status for 31 August 2024				
Region	USGS Well ID	Well Level[1]	Status	
Western	GA Bc 1	15.38	Normal	Watch
	AL Ah 1	4.98	Normal	
	WA Be 2	31.76	Normal	
	WA Bk 25	49.04	Emergency	
	WA Ci 82	47.17	Normal	
Central	BA Dc 444	40.42 [3]	Watch	Normal
	BA Ea 18	22.38	Normal	
	CL Ad 47	3.52	Normal	
	Fr Bd 96	29.04	Normal	
	Fr Df 35	56.12	Normal	
	HA Bd 31	12.66	Normal	
	HA Ca 23	7.92	Watch	
	MO Cc 14	35.49	Normal	
Eastern	QA Cg 69	4.88	Normal	Normal
	WI Cg 20	7.64	Watch	
	MC51-01	13.38	Normal	
	SO Cf 2	5.41	Watch	
Southern	CH Bg 12 (unconfined)	8.29	Watch	***Watch***
	CA Fd 54 (confined)	243	On Trend[4]	

[1] - Measurement of water level as feet below land surface
[2] - Not Available as of 2024-09-04
[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.

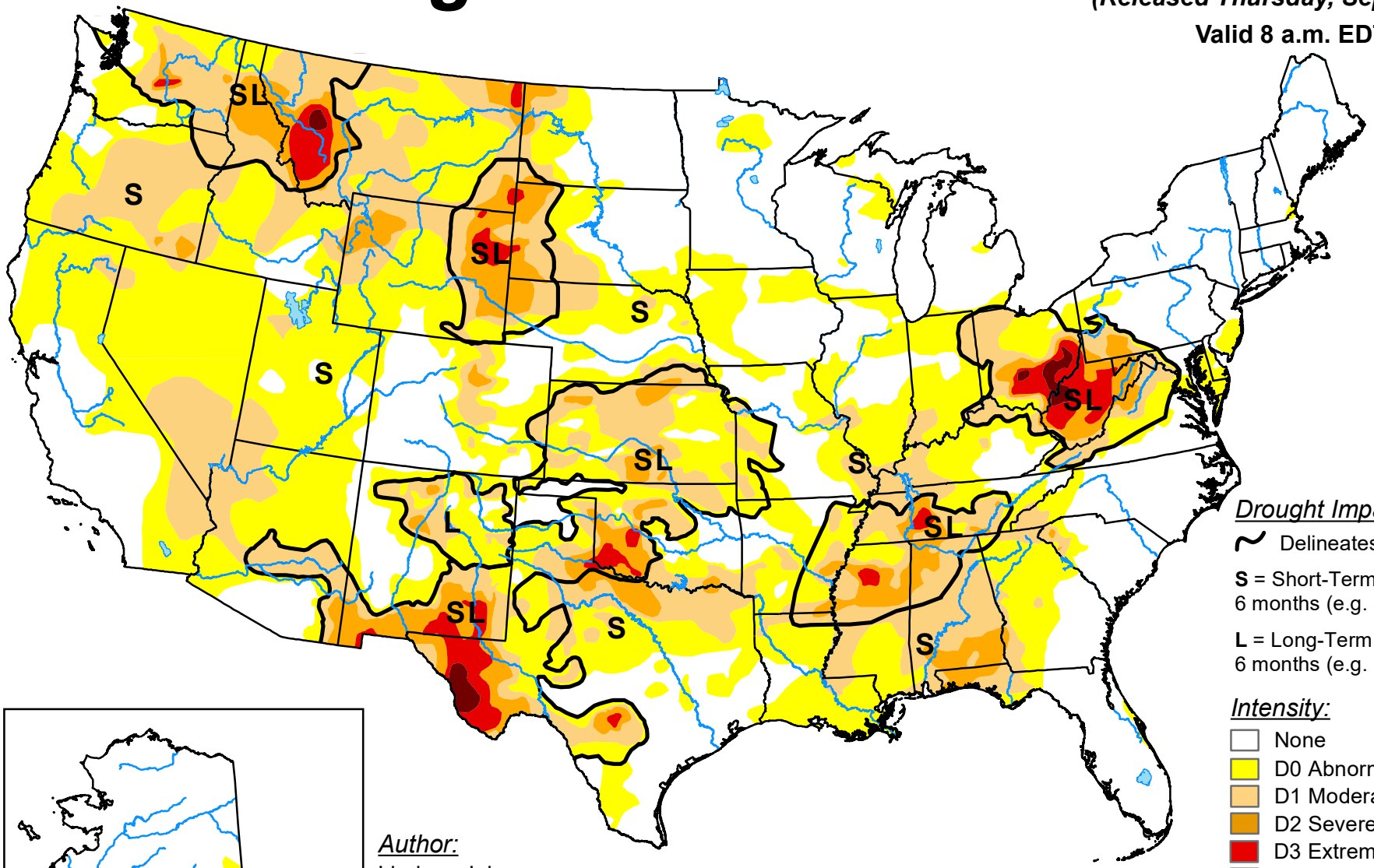
Selected ground water levels are available from USGS at:
http://md.water.usgs.gov/groundwater/
Data for other wells may be downloaded from:
USGS - NWIS Web Information for USA

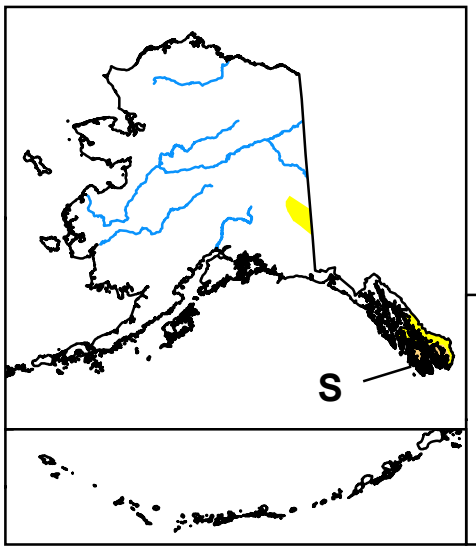
U.S. Drought Monitor

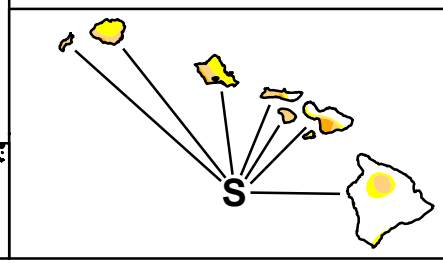
September 3, 2024

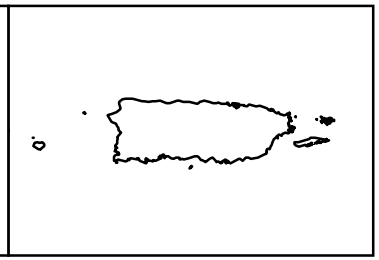
(Released Thursday, Sep. 5, 2024)

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:

Lindsay Johnson

National Drought Mitigation Center

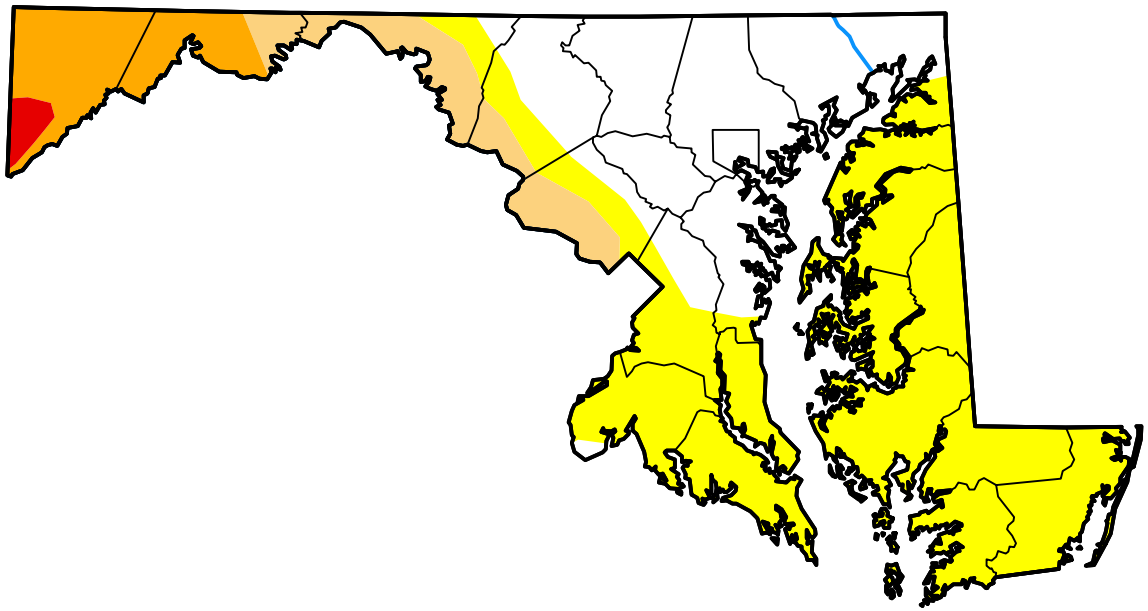
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

USDA NDMC NOAA

droughtmonitor.unl.edu

U.S. Drought Monitor

Maryland



September 3, 2024

(Released Thursday, Sep. 5, 2024)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	32.70	67.30	17.94	10.08	0.95	0.00
Last Week *08-27-2024*	34.20	65.80	17.94	10.08	0.00	0.00
3 Months Ago *06-04-2024*	77.40	22.60	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 *09-05-2023*	70.69	29.31	16.52	0.50	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

Author:

Lindsay Johnson

National Drought Mitigation Center

droughtmonitor.unl.edu