

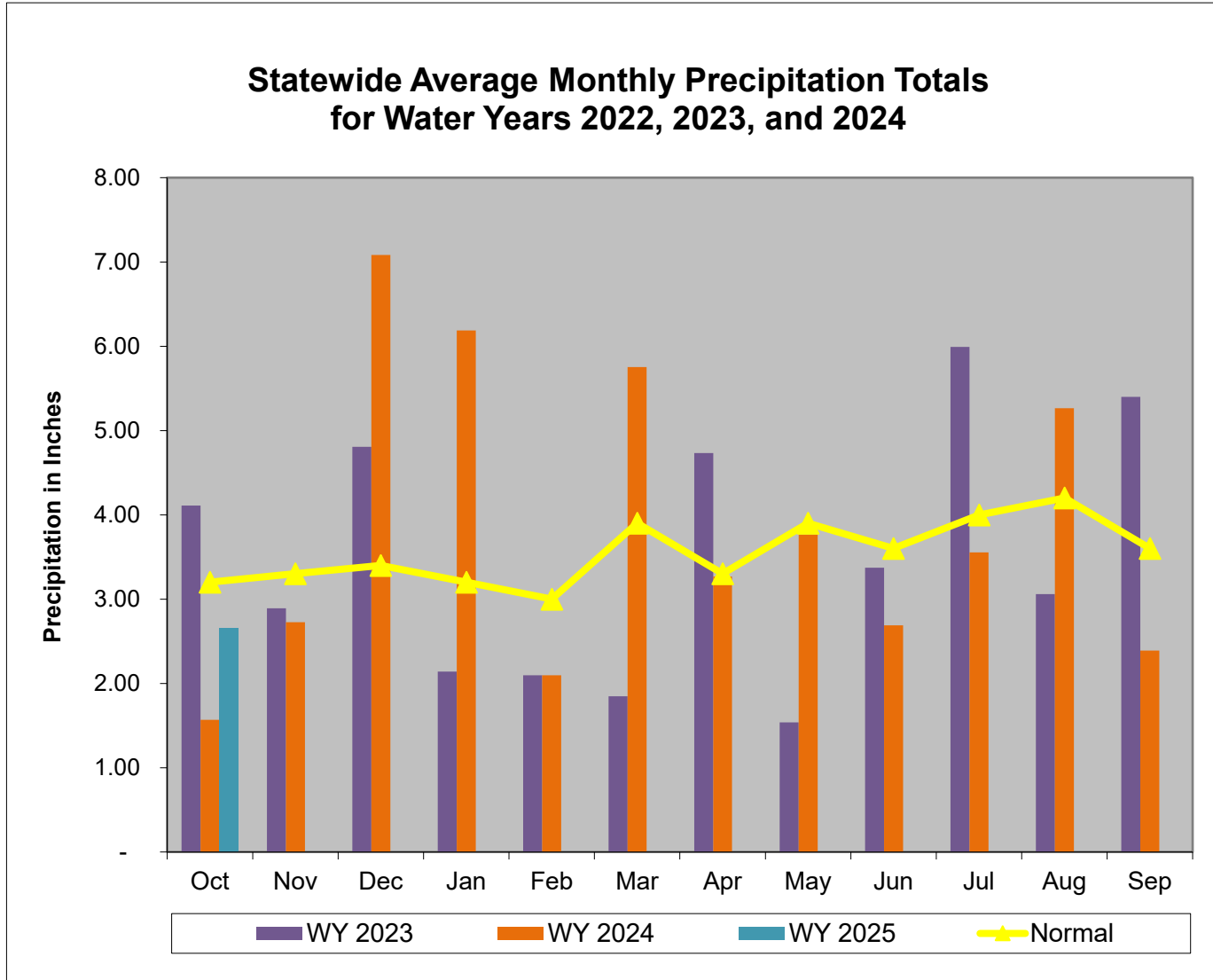
Overall Hydrologic Status for Maryland

Summary of Hydrologic Indicators for 15 October 2024					
	Rainfall	Stream Flow	Groundwater	Reservoirs	Overall Status
Western	Normal	Normal	Normal	Normal	Normal
Central	Normal	Normal	Normal	Normal	Normal
Eastern	Watch	Watch	Watch		Watch
Southern	Normal		Normal		Normal

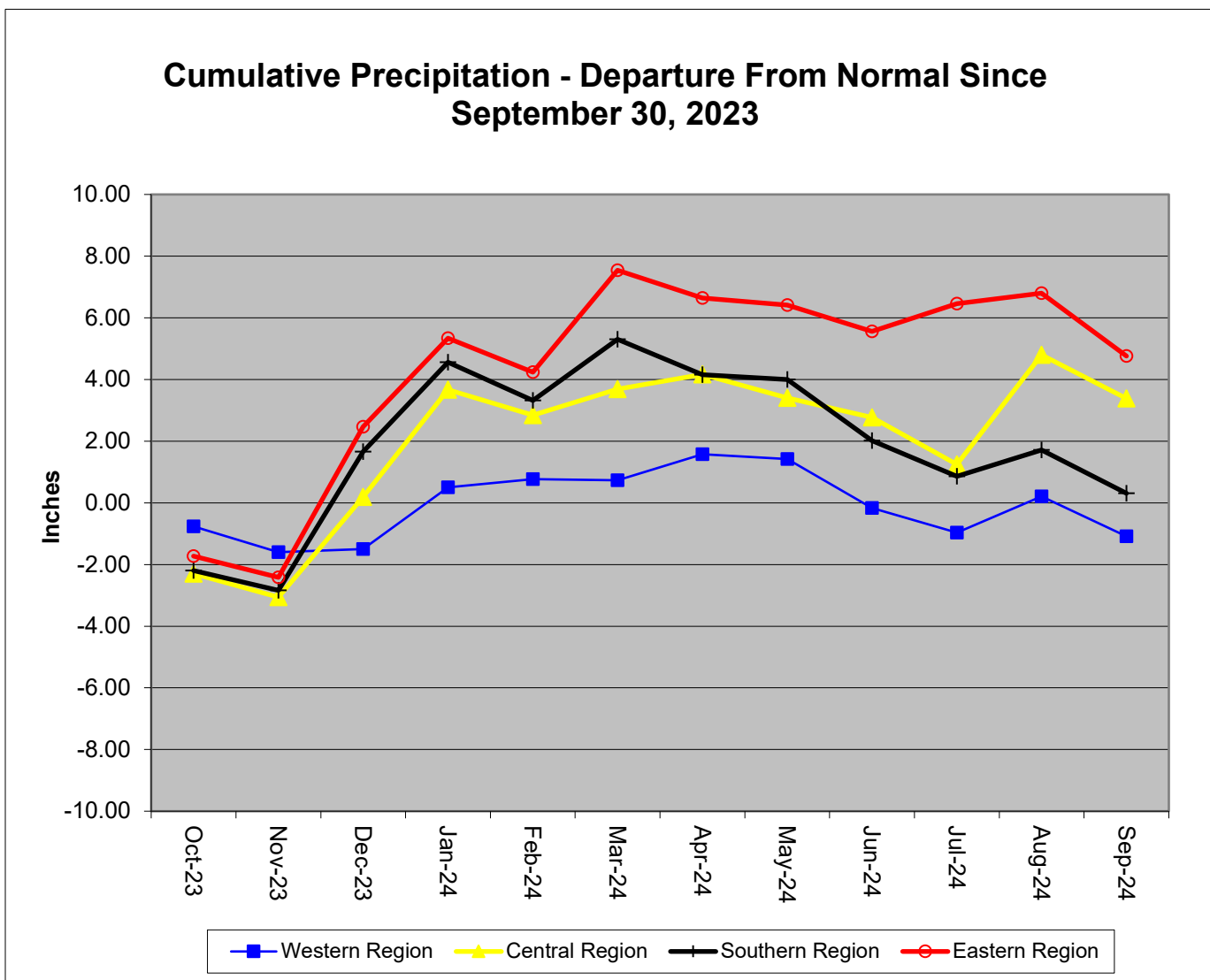
Notes: WSSC has declared a drought Watch: <https://www.mwcog.org/newsroom/2024/07/29/council-of-governments-declares-regional-drought-watch/>

Precipitation Indicators for Maryland Drought Regions						
October 15, 2024						
	Since July 31, 2024		Since April 30, 2024		Since October 31, 2023	
Regions	Percent of Normal	Condition	Percent of Normal	Condition	Percent of Normal	Condition
Western	97%	Normal	87%	Normal	99%	Normal
Central	112%	Normal	94%	Normal	111%	Normal
Eastern	71%	Watch	85%	Normal	111%	Normal
Southern	87%	Normal	79%	Watch	104%	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 15 October 2024 (WY 2025)**

		Normal Rainfall, Actual Rainfall and Rainfall Departure from Normal in Inches															
		WY ¹ To Date (Since September 30, 2024)				11.5 Months (Since October 31, 2023)				2.5 Months (Since July 31, 2024)				5.5 Months (Since April 30, 2024)			
		COUNTY	Normal	Actual	Depart	%	Normal	Actual	Depart	%	Normal	Actual	Depart	%	Normal	Actual	Depart
WESTERN REGION	ALLEGANY	3.1	4.1	1.0	133%	39.6	41.2	1.6	104%	9.8	13.2	3.4	135%	21.3	20.2	-1.1	95%
	GARRETT	3.3	3.6	0.3	110%	47.3	46.1	-1.2	97%	10.7	10.3	-0.4	97%	25.0	20.0	-5.0	80%
	WASHINGTON	3.4	1.4	-2.1	39%	41.7	39.6	-2.1	95%	11.6	7.4	-4.1	64%	23.0	20.4	-2.6	89%
	Regional Average	3.3	3.0	-0.3	92%	42.9	42.3	-0.6	99%	10.7	10.3	-0.4	97%	23.1	20.2	-2.9	87%
CENTRAL REGION	BALTIMORE COUNTY	4.1	3.5	-0.6	86%	45.7	51.5	5.8	113%	11.8	13.8	2.1	117%	24.1	22.6	-1.6	94%
	CARROLL	3.9	3.7	-0.1	97%	43.9	49.0	5.1	112%	11.6	14.7	3.1	127%	23.6	23.9	0.3	101%
	CECIL	3.9	0.9	-3.0	24%	45.3	50.8	5.5	112%	11.9	7.0	-4.9	59%	24.3	18.5	-5.9	76%
	FREDERICK	3.7	3.5	-0.2	95%	42.7	47.2	4.5	110%	11.0	13.9	3.0	127%	22.9	23.3	0.4	102%
	HARFORD	4.1	2.8	-1.3	68%	46.1	50.2	4.1	109%	12.2	10.6	-1.5	87%	24.9	20.1	-4.8	81%
	HOWARD	3.8	3.8	0.0	101%	44.6	50.2	5.6	113%	11.2	15.6	4.3	139%	23.6	24.3	0.7	103%
	MONTGOMERY	3.7	3.8	0.1	102%	43.0	47.3	4.2	110%	11.1	15.0	3.9	135%	23.3	23.6	0.3	101%
	Regional Average	3.9	3.2	-0.7	81%	44.5	49.4	5.0	111%	11.5	13.0	1.4	112%	23.8	22.3	-1.5	94%
SOUTHERN REGION	ANNE ARUNDEL	3.6	2.8	-0.8	77%	43.0	47.0	3.9	109%	10.9	11.5	0.6	105%	22.9	19.6	-3.4	85%
	CALVERT	3.7	2.6	-1.1	71%	44.3	44.3	0.0	100%	11.3	8.8	-2.5	78%	23.7	17.2	-6.5	73%
	CHARLES	3.6	2.3	-1.4	63%	42.7	43.3	0.5	101%	11.1	8.3	-2.8	75%	23.0	17.1	-6.0	74%
	PRINCE GEORGES	3.6	3.3	-0.4	90%	42.6	44.5	1.8	104%	10.9	11.5	0.7	106%	22.9	19.4	-3.5	85%
	ST MARYS	3.7	2.6	-1.1	71%	44.0	45.5	1.6	104%	11.5	8.1	-3.4	70%	23.5	18.9	-4.6	80%
	Regional Average	3.7	2.7	-0.9	74%	43.3	44.9	1.6	104%	11.1	9.7	-1.5	87%	23.2	18.4	-4.8	79%
EASTERN REGION	CAROLINE	3.5	2.0	-1.5	56%	43.6	49.4	5.8	113%	11.4	7.5	-3.8	66%	23.1	19.6	-3.6	85%
	DORCHESTER	3.4	1.8	-1.6	53%	44.2	47.7	3.5	108%	11.0	7.1	-3.9	64%	23.3	18.9	-4.3	81%
	KENT	3.8	1.4	-2.4	38%	43.9	46.9	3.0	107%	11.5	6.5	-5.0	57%	23.5	16.8	-6.7	71%
	QUEEN ANNES	3.7	1.7	-2.0	45%	43.7	47.3	3.7	108%	11.3	7.2	-4.1	64%	23.2	18.2	-4.9	79%
	SOMERSET	3.4	1.6	-1.8	48%	43.6	50.9	7.3	117%	11.6	7.5	-4.0	65%	22.9	21.8	-1.1	95%
	TALBOT	3.6	2.7	-0.9	74%	44.2	49.2	5.0	111%	11.3	9.0	-2.3	80%	23.4	20.9	-2.5	89%
	WICOMICO	3.4	2.5	-0.9	75%	42.8	51.9	9.1	121%	10.4	11.6	1.2	112%	21.7	20.5	-1.2	95%
	WORCESTER	3.6	1.8	-1.8	49%	44.6	46.1	1.5	103%	11.9	7.2	-4.7	61%	23.2	19.5	-3.7	84%
Regional Average	3.6	1.9	-1.6	54%	43.8	48.7	4.9	111%	11.3	8.0	-3.3	71%	23.0	19.5	-3.5	85%	
INDEPENDENT CITY OF BALTIMORE		4.1	3.5	-0.6	86%	45.7	51.5	5.8	113%	11.8	13.8	2.1	117%	24.1	22.6	-1.6	94%
Statewide Average		3.7	2.7	-1.0	73%	43.9	47.4	3.6	108%	11.3	10.3	-1.0	91%	23.3	20.3	-3.0	87%

WY¹ - USGS Water Year, which begins October 1

Stream Flow Status Based on Thirty Day Average for 2024 October 15

Region	Stream Gage Location	Notes	Status Based on 30 Day Average		
			30 Day Average (cfs)	Percentage	Status
Western	Youghiogheny (near Oakland)		28.5	20%-25%	Watch
Western	Savage River (near Barton)		11.9	60%-65%	Normal
Western	Wills Creek (near Cumberland)		145	80%-85%	Normal
Western	Marsh Run (at Grimes)		6.3	60%-65%	Normal
Central	Catoctin Creek (near Middletown)		12.4	45%-50%	Normal
Central	Monocacy (Jug Bridge near Frederick)		337	65%-70%	Normal
Central	Patuxent (near Unity)		16.6	55%-60%	Normal
Central	Deer Cr (at Rocks)		53.7	25%-30%	Normal
Eastern	Choptank (near Greensboro)		12.9	10%-15%	Watch
Eastern	Nassawango Creek (near Snow Hill)		2.6	10%-15%	Watch
	Susquehanna (at Marietta)		9,340	45%-50%	Normal
	Potomac (at Little Falls)(Adjusted)		9,954	85%-90%	Normal

Notes:

Ground Water Status for 15 October 2024				
Region	USGS Well ID	Well Level[1]	Status	
Western	GA Bc 1	15.73 [3]	Normal	
	AL Ah 1	4.42 [2]	Normal	
	WA Be 2	33.49 [2]	Normal	Normal
	WA Bk 25	49.45 [3]	Watch	
	WA Ci 82	51.11 [2]	Normal	
Central	BA Dc 444	41.47 [3]	Watch	
	BA Ea 18	23.15 [2]	Normal	
	CL Ad 47	3.5 [3]	Normal	
	Fr Bd 96	27.27 [2]	Normal	
	Fr Df 35	56.54 [2]	Normal	
	HA Bd 31	14.15 [2]	Normal	
	HA Ca 23	9.29 [2]	Emergency	
	MO Cc 14	37.14 [2]	Normal	
Eastern	QA Cg 69	5.18 [2]	Normal	Watch
	WI Cg 20	8.24 [2]	Watch	
	MC51-01	14.53 [3]	Watch	
	SO Cf 2	6.44 [3]	Emergency	
Southern	CH Bg 12 (unconfined)	9.08 [3]	Watch	Normal
	CA Fd 54 (confined)	242.80	On Trend[4]	

[1] - Measurement of water level as feet below land surface
[2] - Not Available as of 2024-10-21
[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:

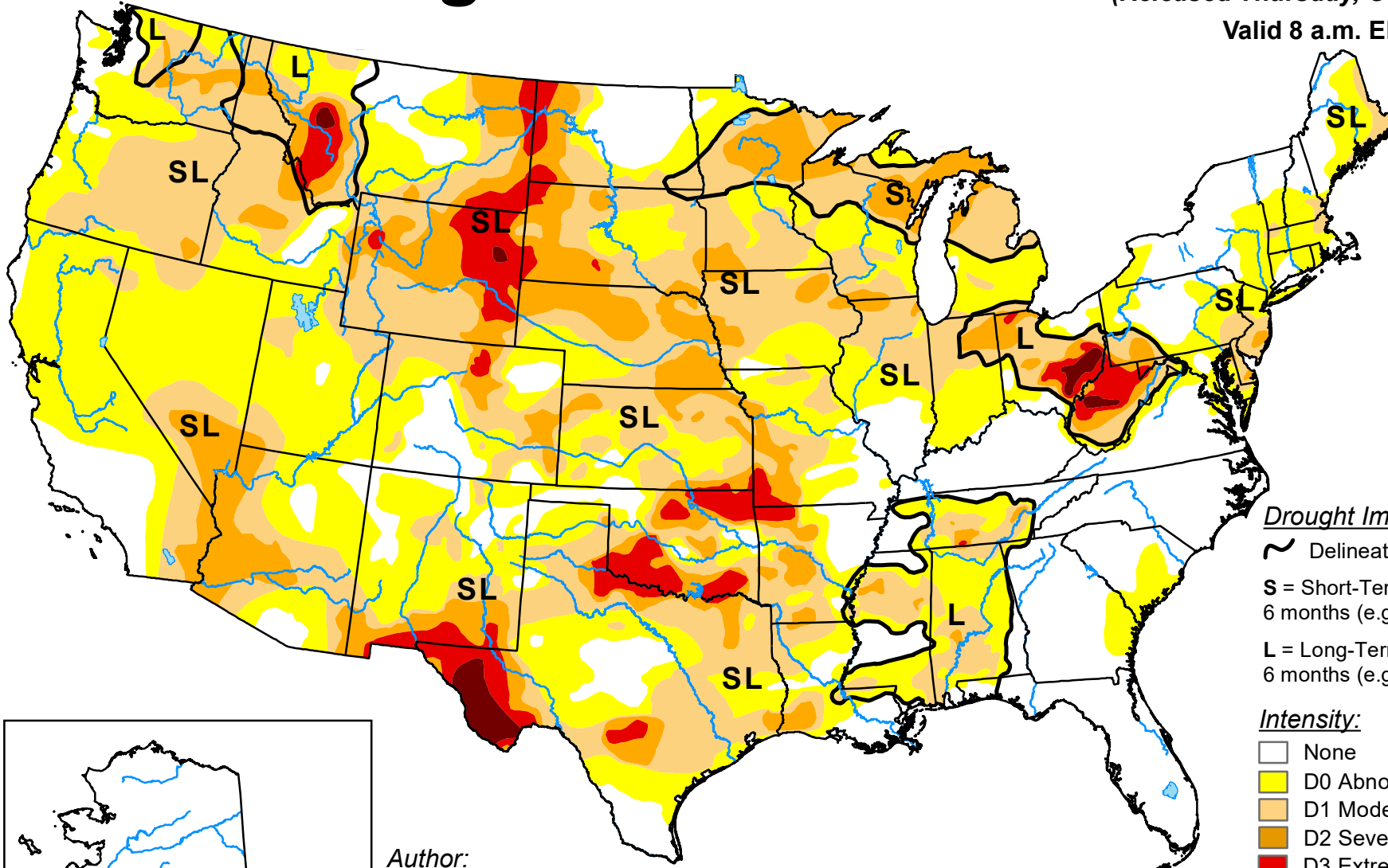
<http://md.water.usgs.gov/groundwater/>

Data for other wells may be downloaded from:

[USGS - NWIS Web Information for USA](http://www.usgs.gov/nwis)

U.S. Drought Monitor

October 15, 2024
(Released Thursday, Oct. 17, 2024)
Valid 8 a.m. EDT

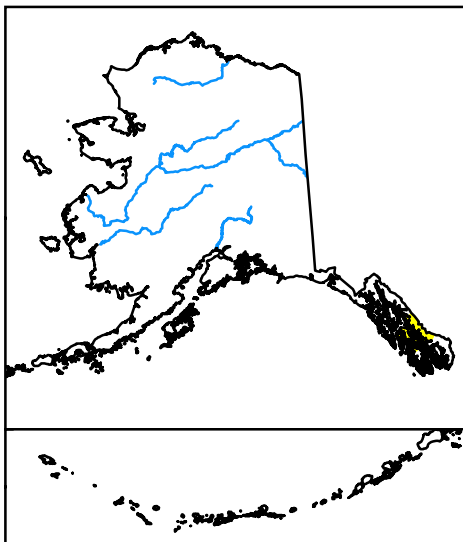


Drought Impact Types:

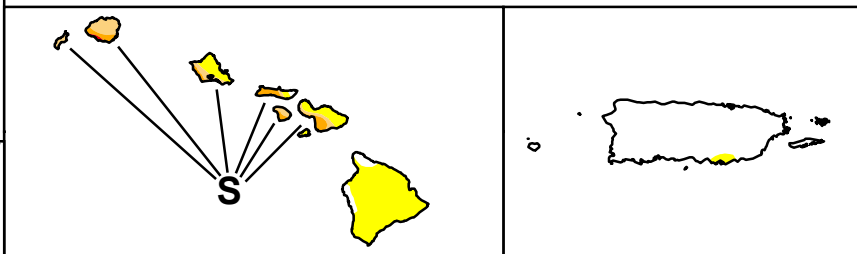
- ~ Delineates dominant impacts
- S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
- L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

Intensity:

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



Author:
Brian Fuchs
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>



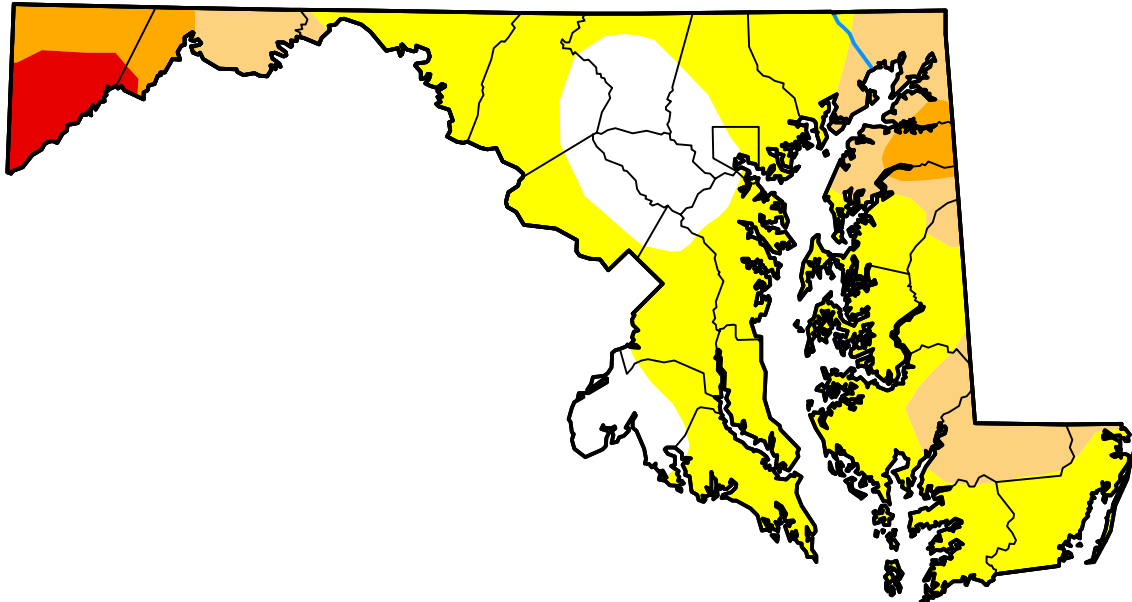
droughtmonitor.unl.edu

U.S. Drought Monitor Maryland

October 15, 2024
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Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	16.18	83.82	25.58	10.43	4.07	0.00
Last Week <i>10-08-2024</i>	16.18	83.82	23.82	8.47	4.07	0.00
3 Months Ago <i>07-16-2024</i>	29.30	70.70	53.17	18.05	1.47	0.00
Start of Calendar Year <i>01-02-2024</i>	70.35	29.65	0.00	0.00	0.00	0.00
Start of Water Year <i>10-01-2024</i>	18.77	81.23	21.65	9.89	4.07	0.00
One Year Ago <i>10-17-2023</i>	67.60	32.40	3.31	0.47	0.00	0.00



Intensity:



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