

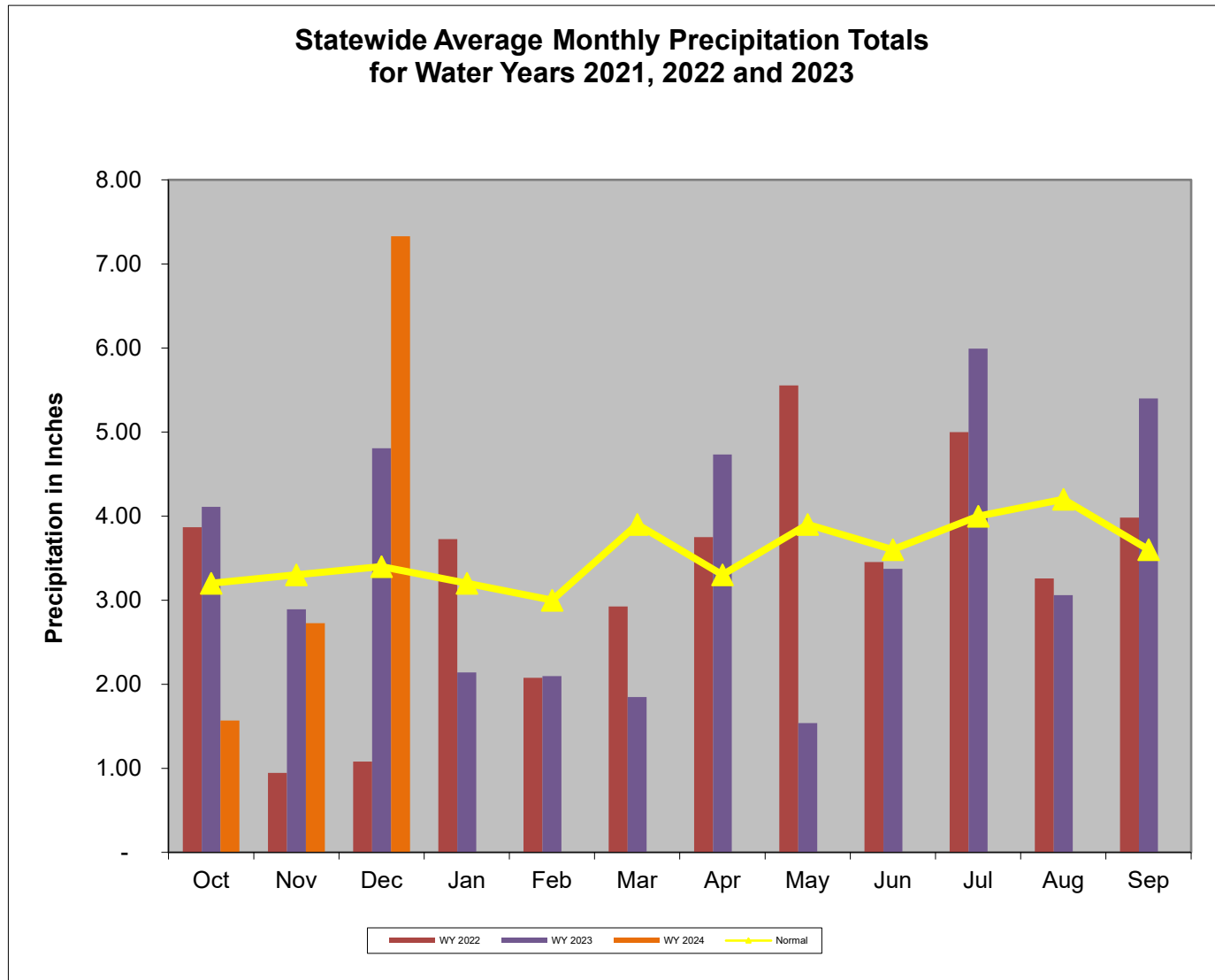
Overall Hydrologic Status for Maryland

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

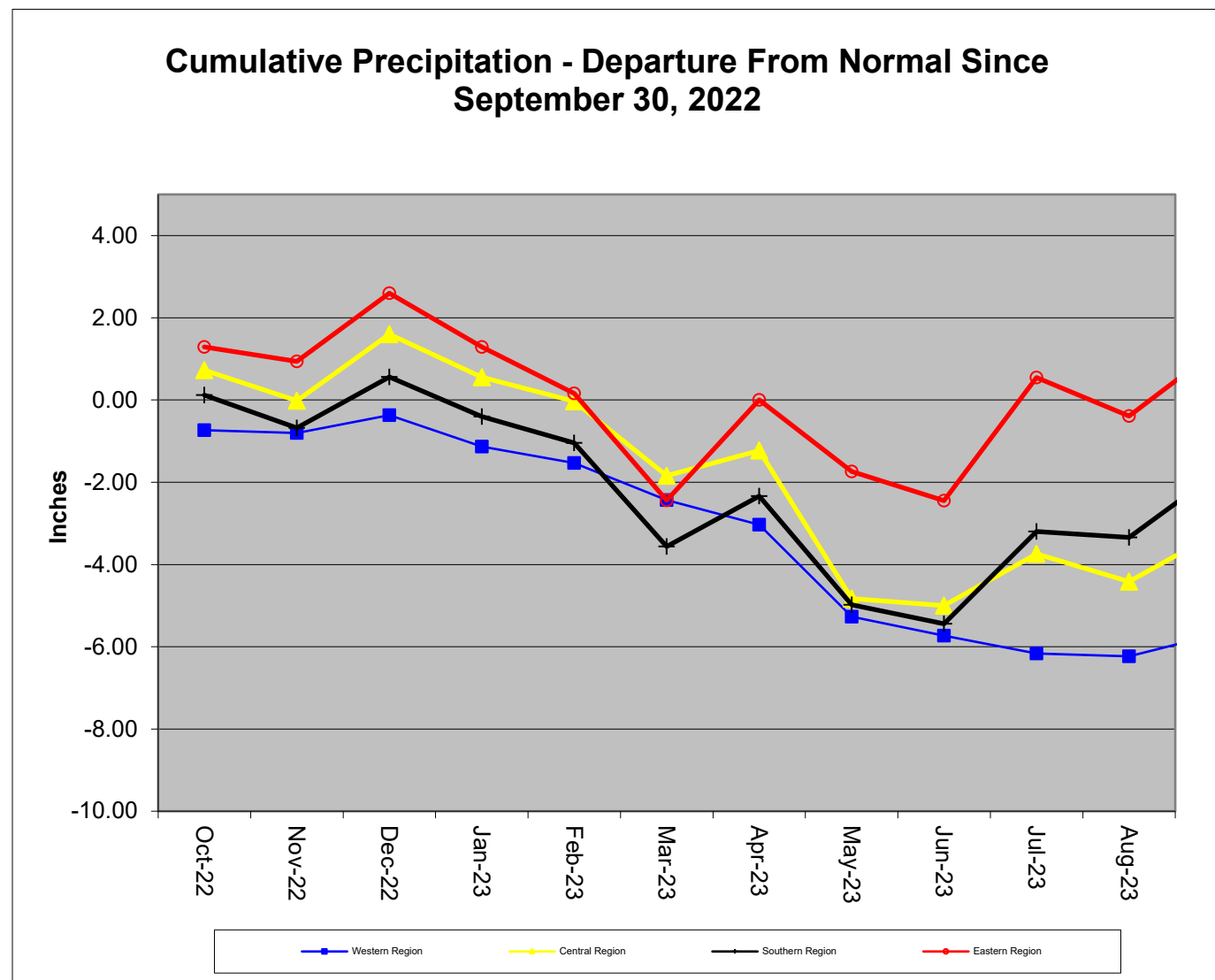
Notes: The WSSC Patuxent reservoirs have less than 120 days of water in storage. This is a result of dredging in the Triadelphia, which was scheduled to end by November 2023.

Precipitation Indicators for Maryland Drought Regions December 15, 2023						
	Since Sept 30, 2023		Since June 30, 2022		Since Dec 31, 2022	
Regions	Percent of Normal	Condition	Percent of Normal	Condition	Percent of Normal	Condition
Western	94%	Normal	98%	Normal	86%	Normal
Central	107%	Normal	112%	Normal	91%	Normal
Eastern	120%	Normal	126%	Normal	102%	Normal
Southern	122%	Normal	127%	Normal	100%	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 December 2023 (WY 2024)**

		Normal Rainfall, Actual Rainfall and Rainfall Departure from Normal in Inches															
		WY ¹ To Date (Since September 30, 2023)				11.5 Months (Since December 30, 2022)				2.5 Months (Since September 30, 2023)				5.5 Months (Since June 30, 2023)			
		COUNTY	Normal	Actual	Depart	%	Normal	Actual	Depart	%	Normal	Actual	Depart	%	Normal	Actual	Depart
WESTERN REGION	ALLEGANY	9.0	8.3	-0.7	92%	40.2	35.2	-5.0	88%	9.0	8.3	-0.7	92%	19.3	19.1	-0.2	99%
	GARRETT	10.5	9.2	-1.3	88%	46.5	41.3	-5.2	89%	10.5	9.2	-1.3	88%	22.9	21.4	-1.5	93%
	WASHINGTON	9.4	9.8	0.4	104%	40.6	33.3	-7.3	82%	9.4	9.8	0.4	104%	19.9	20.2	0.3	102%
	Regional Average	9.6	9.1	-0.5	94%	42.4	36.6	-5.8	86%	9.6	9.1	-0.5	94%	20.7	20.2	-0.5	98%
CENTRAL REGION	BALTIMORE COUNTY	11.1	12.0	0.9	108%	45.4	42.7	-2.7	94%	11.1	12.0	0.9	108%	23.0	27.3	4.3	119%
	CARROLL	10.5	10.7	0.2	102%	43.8	35.8	-8.0	82%	10.5	10.7	0.2	102%	22.2	21.5	-0.7	97%
	CECIL	10.7	13.1	2.4	122%	44.7	46.2	1.5	103%	10.7	13.1	2.4	122%	23.1	28.5	5.4	123%
	FREDERICK	10.2	10.4	0.2	102%	42.8	35.1	-7.7	82%	10.2	10.4	0.2	102%	21.2	20.9	-0.3	99%
	HARFORD	11.1	12.2	1.1	110%	46.0	44.3	-1.7	96%	11.1	12.2	1.1	110%	23.7	27.7	4.0	117%
	HOWARD	10.8	11.3	0.5	105%	44.5	39.5	-5.0	89%	10.8	11.3	0.5	105%	22.2	24.9	2.7	112%
	MONTGOMERY	10.3	10.4	0.1	101%	43.1	38.7	-4.4	90%	10.3	10.4	0.1	101%	21.6	24.4	2.8	113%
	Regional Average	10.7	11.4	0.8	107%	44.3	40.3	-4.0	91%	10.7	11.4	0.8	107%	22.4	25.0	2.6	112%
SOUTHERN REGION	ANNE ARUNDEL	10.2	12.8	2.6	125%	42.2	43.8	1.6	104%	10.2	12.8	2.6	125%	21.5	29.1	7.6	135%
	CALVERT	10.4	13.5	3.1	130%	44.2	45.8	1.6	104%	10.4	13.5	3.1	130%	22.1	29.4	7.3	133%
	CHARLES	10.2	12.0	1.8	118%	42.8	41.4	-1.4	97%	10.2	12.0	1.8	118%	21.7	26.3	4.6	121%
	PRINCE GEORGES	10.4	11.8	1.4	113%	42.3	41.8	-0.5	99%	10.4	11.8	1.4	113%	21.6	28.0	6.4	130%
	ST MARYS	10.4	12.8	2.4	123%	44.0	42.7	-1.3	97%	10.4	12.8	2.4	123%	22.4	26.5	4.1	118%
	Regional Average	10.3	12.6	2.3	122%	43.1	43.1	-0.0	100%	10.3	12.6	2.3	122%	21.9	27.9	6.0	127%
EASTERN REGION	CAROLINE	10.1	12.9	2.8	128%	43.2	48.5	5.3	112%	10.1	12.9	2.8	128%	22.0	32.6	10.6	148%
	DORCHESTER	56.2	59.2	3.0	105%	43.4	45.9	2.5	106%	10.0	13.0	3.0	130%	21.9	30.0	8.1	137%
	KENT	55.0	57.5	2.5	105%	43.4	44.7	1.3	103%	10.2	12.7	2.5	125%	22.0	28.5	6.5	130%
	QUEEN ANNES	55.7	58.1	2.4	104%	43.1	44.9	1.8	104%	10.2	12.6	2.4	124%	21.9	29.0	7.1	132%
	SOMERSET	53.8	55.6	1.8	103%	42.9	42.1	-0.8	98%	9.6	11.4	1.8	119%	22.1	25.0	2.9	113%
	TALBOT	53.4	55.3	1.9	104%	43.6	43.0	-0.6	99%	10.3	12.2	1.9	118%	22.1	27.3	5.2	124%
	WICOMICO	54.8	56.3	1.5	103%	43.7	44.0	0.3	101%	9.9	11.4	1.5	115%	22.2	27.4	5.2	123%
	WORCESTER	51.5	51.7	0.2	100%	44.1	40.1	-4.0	91%	10.2	10.4	0.2	102%	22.8	23.4	0.6	103%
Regional Average	48.8	50.8	2.0	104%	43.4	44.2	0.7	102%	10.1	12.1	2.0	120%	22.1	27.9	5.8	126%	
INDEPENDENT CITY OF BALTIMORE		11.1	12.0	0.9	108%	45.1	42.3	-2.8	94%	11.1	12.0	0.9	108%	23.0	27.3	4.3	119%
Statewide Average		23.2	24.5	1.3	106%	43.6	41.8	-1.8	96%	10.3	11.6	1.3	113%	22.0	26.1	4.1	118%

WY¹ - USGS Water Year, which begins October 1

Ground Water Status for 15 December 2023			
Region	USGS Well ID	Well Level[1]	Status
Western	GA Bc 1	11.52 [3]	Normal
	AL Ah 1	5.34 [2]	Watch
	WA Be 2	36.09 [2]	Warning
	WA Bk 25	50.34 [3]	Emergency
Central	BA Dc 444	43.43 [3]	Warning
	BA Ea 18	27.53 [2]	Emergency
	HA Bd 31	13.82 [2]	Normal
	HA Ca 23	7.92 [2]	Normal
	MO Cc 14	39.21 [2]	Normal
Eastern	QA Cg 69	3.58 [2]	Normal
	WI Cg 20	5.58 [2]	Normal
	MC51-01	10.82 [3]	Normal
	SO Cf 2	4.86 [3]	Watch
Southern	CH Bg 12 (unconfined)	2.51 [3]	Normal
	AA Cc 40 (confined)	NA[2]	Unknown
	CA Fd 54 (confined)	241.54	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 2023-12-18 [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)

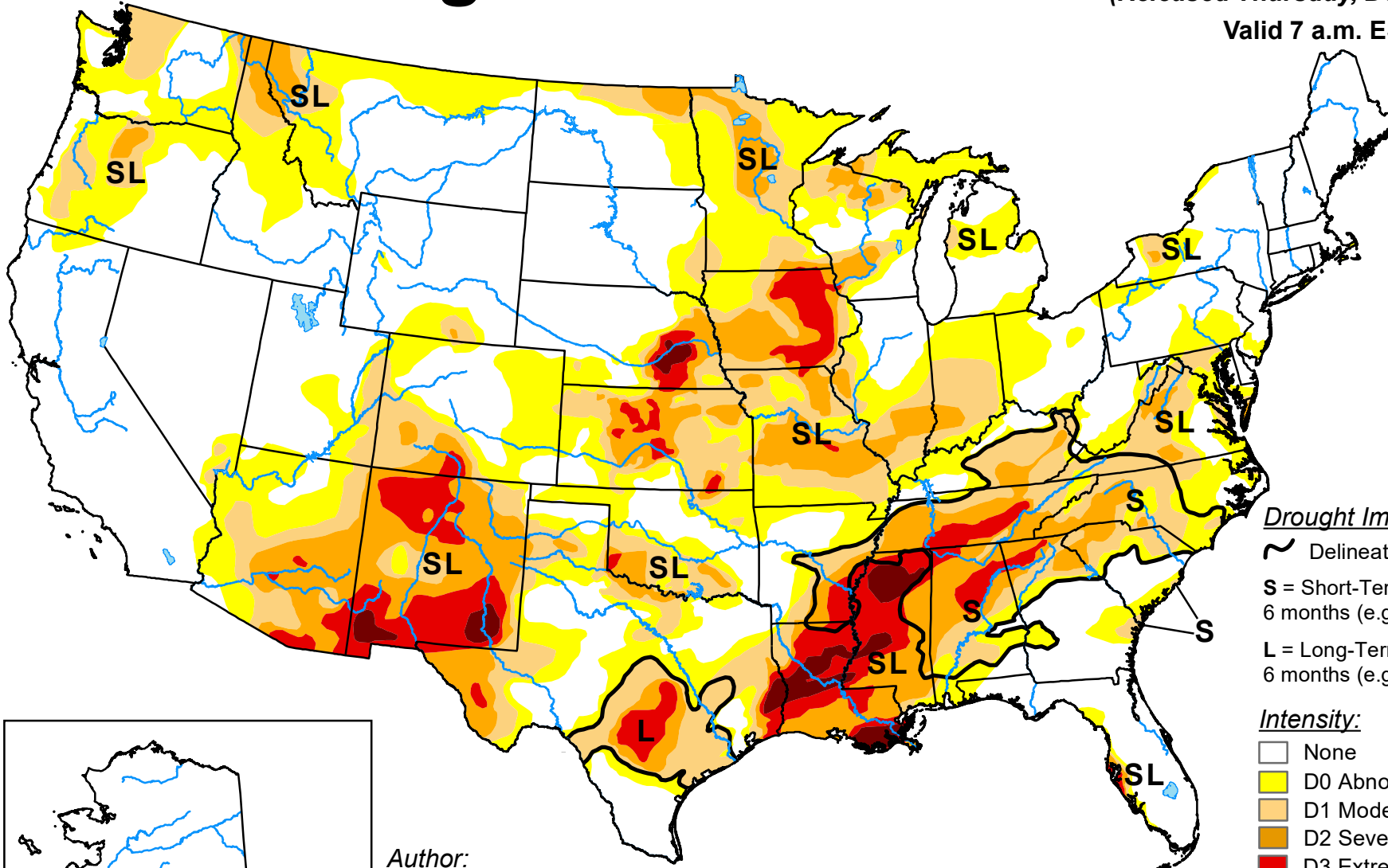
Stream Flow Status Based on Thirty Day Average for 2023 December 15

Region	Stream Gage Location	Notes	Status Based on 30 Day Average		
			30 Day Average (cfs)	Percentage	Status
Western	Youghiogheny (near Oakland)		292	45%-50%	Normal
Western	Savage River (near Barton)		35.5	25%-30%	Normal
Western	Wills Creek (near Cumberland)		92	20%-25%	Watch
Western	Marsh Run (at Grimes)		5.4	30%-35%	Normal
Central	Catoctin Creek (near Middletown)		17.5	10%-15%	Watch
Central	Monocacy (Jug Bridge near Frederick)		423	30%-35%	Normal
Central	Patuxent (near Unity)		24.3	40%-45%	Normal
Central	Deer Cr (at Rocks)		84.1	30%-35%	Normal
Eastern	Choptank (near Greensboro)		158.1	75%-80%	Normal
Eastern	Nassawango Creek (near Snow Hill)		25.6	40%-45%	Normal
	Susquehanna (at Marietta)		33,726	50%-55%	Normal
	Potomac (at Little Falls)(Adjusted)		4,235	20%-25%	Watch

Notes:

U.S. Drought Monitor

December 12, 2023
(Released Thursday, Dec. 14, 2023)
Valid 7 a.m. EST



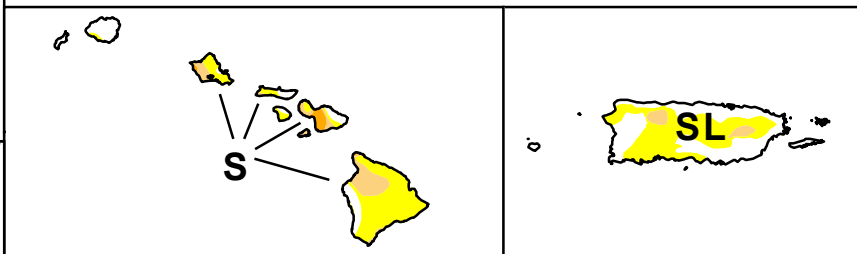
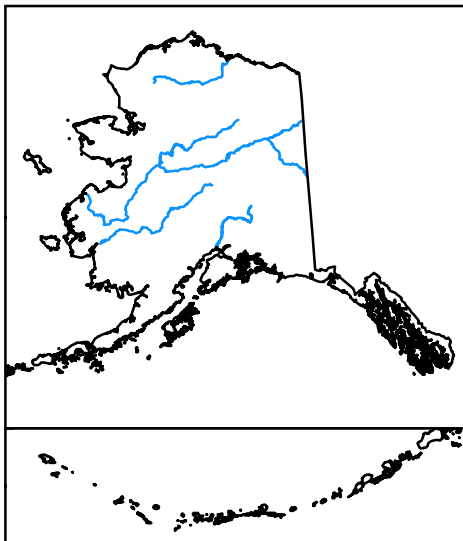
Drought Impact Types:

- ~ 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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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>



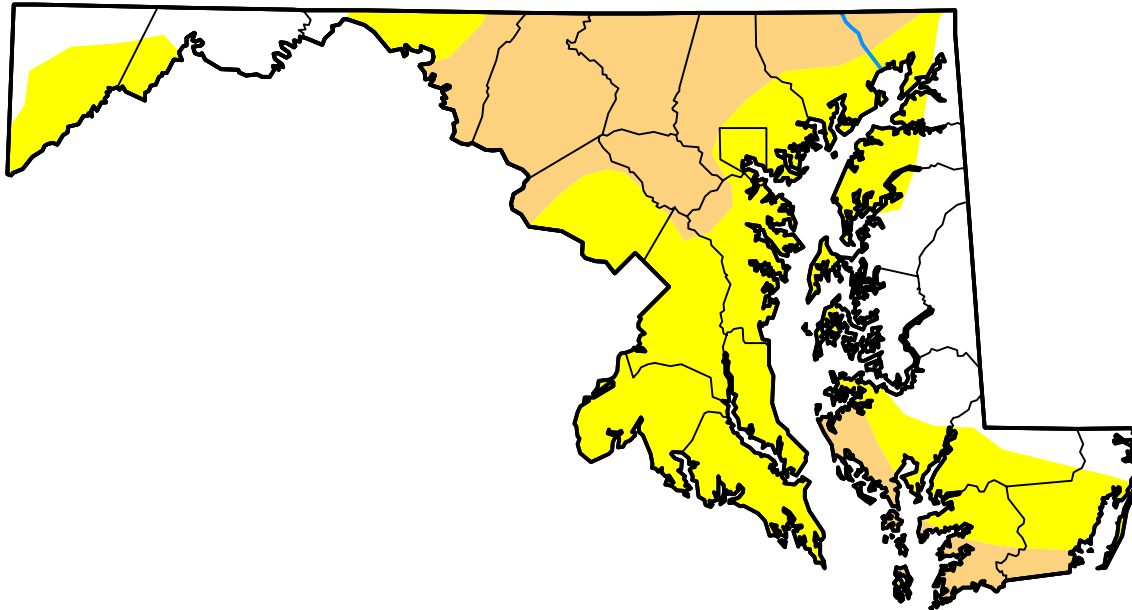
droughtmonitor.unl.edu

U.S. Drought Monitor Maryland

December 12, 2023
(Released Thursday, Dec. 14, 2023)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	22.46	77.54	29.91	0.00	0.00	0.00
Last Week <i>12-05-2023</i>	17.45	82.55	43.48	3.26	0.00	0.00
3 Months Ago <i>09-12-2023</i>	72.46	27.54	16.49	0.50	0.00	0.00
Start of Calendar Year <i>01-03-2023</i>	100.00	0.00	0.00	0.00	0.00	0.00
Start of Water Year <i>09-26-2023</i>	63.11	36.89	3.30	0.47	0.00	0.00
One Year Ago <i>12-13-2022</i>	73.77	26.23	0.00	0.00	0.00	0.00



Intensity:



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