

Overall Hydrologic Status for Maryland

Summary of Hydrologic Indicators for 31-January 2023					
	Rainfall	Stream Flow	Groundwater	Reservoirs	Overall Status
Western	Normal	Normal	Normal	Normal	Normal
Central	Normal	Normal	Normal	Normal	Normal
Eastern	Normal	Normal	Normal		Normal
Southern	Normal		Normal		Normal

Stream Flow Status Based on Thirty Day Average for 2023 January 31

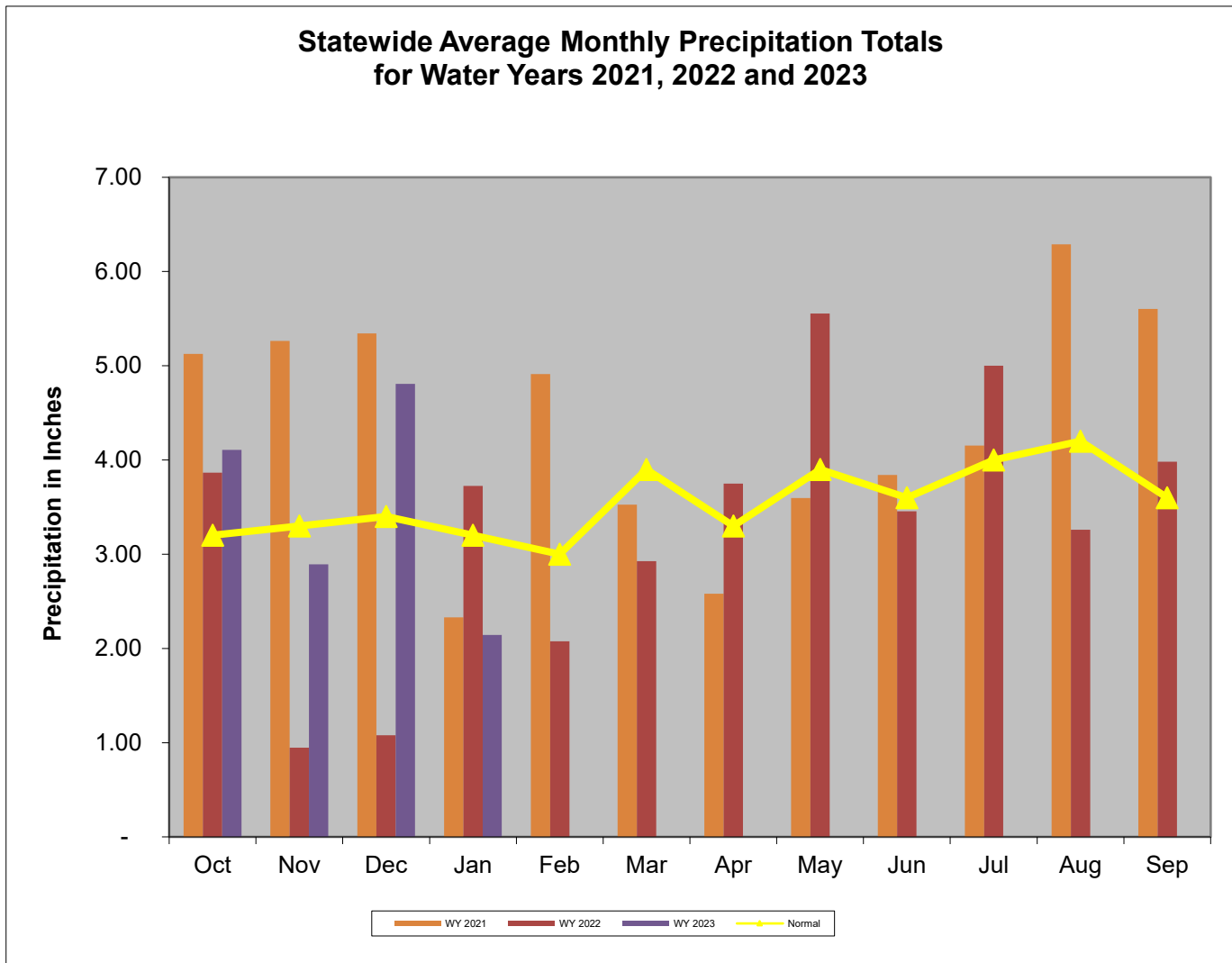
Region	Stream Gage Location	Notes	Status Based on 30 Day Average		
			30 Day Average (cfs)	Percentage	Status
Western	Youghiogheny (near Oakland)		456	55%-60%	Normal
Western	Savage River (near Barton)	[1]	93.1	55%-60%	Normal
Western	Wills Creek (near Cumberland)		517	70%-75%	Normal
Western	Marsh Run (at Grimes)		14.1	60%-65%	Normal
Central	Catoctin Creek (near Middletown)		60.2	30%-35%	Normal
Central	Monocacy (Jug Bridge near Frederick)		877	35%-40%	Normal
Central	Patuxent (near Unity)		29.2	30%-35%	Normal
Central	Deer Cr (at Rocks)		119.2	45%-50%	Normal
Eastern	Choptank (near Greensboro)		171.4	45%-50%	Normal
Eastern	Nassawango Creek (near Snow Hill)		76.5	50%-55%	Normal
	Susquehanna (at Marietta)		70,765	85%-90%	Normal
	Potomac (at Little Falls)(Adjusted)		8,885	30%-35%	Normal

Notes:

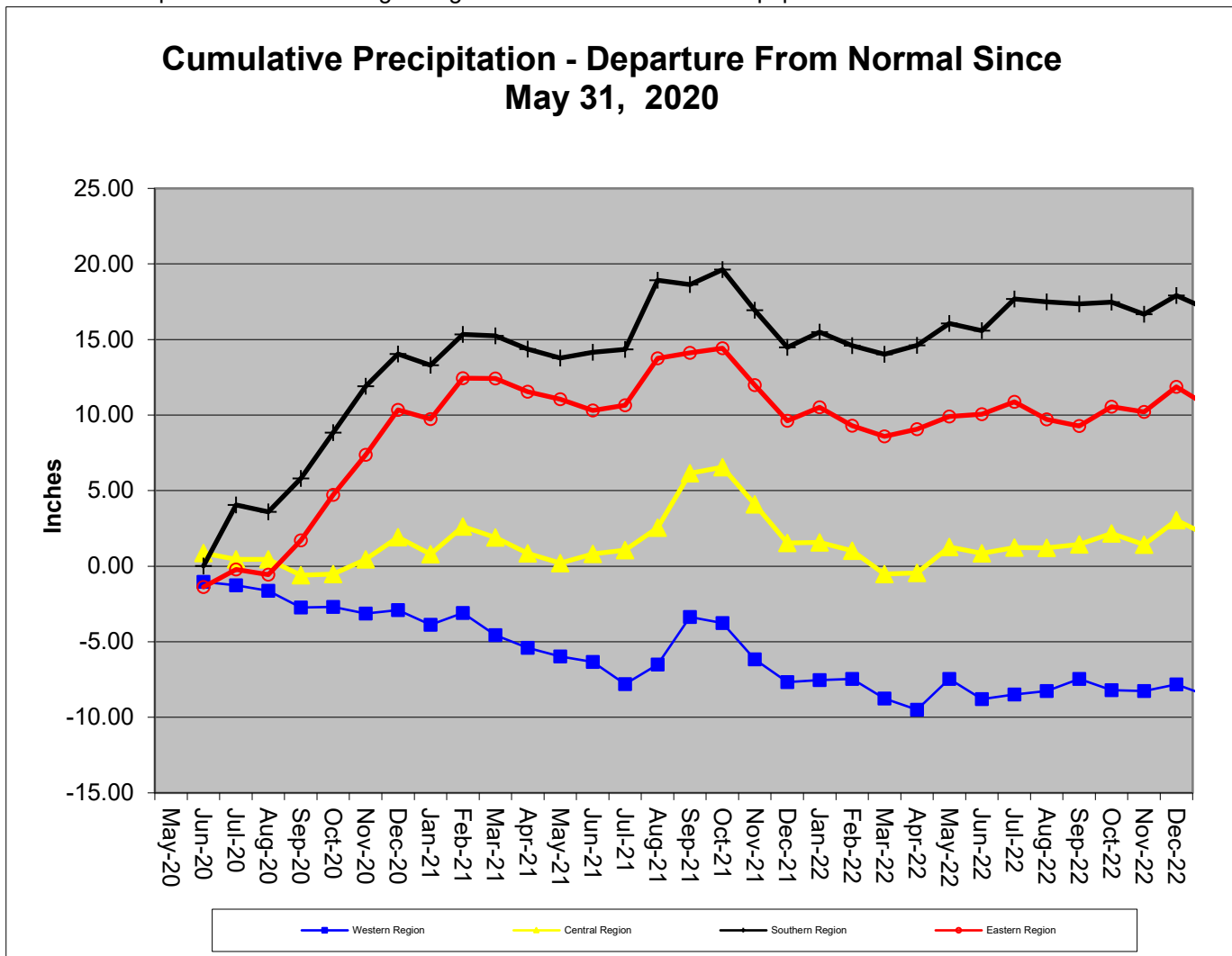
[1] - Some dates are missing stream flow values due to ice

Precipitation Indicators for Maryland Drought Regions						
January 31, 2023						
	WY to Date		Since July 31, 2022		Since January 31, 2022	
Regions	Percent of Normal	Condition	Percent of Normal	Condition	Percent of Normal	Condition
Western	96%	Normal	105%	Normal	100%	Normal
Central	115%	Normal	110%	Normal	103%	Normal
Eastern	126%	Normal	108%	Normal	105%	Normal
Southern	105%	Normal	111%	Normal	108%	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 was



**Precipitation in Maryland Counties
as of 31 January 2023 (WY 2023)**

		Normal Rainfall, Actual Rainfall and Rainfall Departure from Normal in Inches															
		WY ¹ To Date (Since Sep 30, 2022)				12 Months (Since January 31, 2022)				3 Months (October 31, 2022)				6 Months (July 31, 2022)			
REGION	COUNTY	Normal	Actual	Depart	%	Normal	Actual	Depart	%	Normal	Actual	Depart	%	Normal	Actual	Depart	%
	WESTERN REGION	ALLEGANY	12.5	12.2	-0.3	98%	40.1	39.4	-0.7	98%	9.7	9.9	0.2	102%	19.2	20.3	1.1
GARRETT		13.4	10.9	-2.5	81%	46.5	45.5	-1.0	98%	10.4	8.6	-1.8	83%	20.8	20.3	-0.5	98%
WASHINGTON		12.9	12.3	-0.6	95%	40.6	39.1	-1.5	96%	9.8	10.2	0.4	104%	19.9	19.0	-0.9	95%
Regional Average		12.9	11.8	-1.1	91%	42.4	41.3	-1.1	97%	10.0	9.6	-0.4	96%	20.0	19.9	-0.1	99%
CENTRAL REGION	BALTIMORE COUNTY	14.6	15.1	0.5	103%	45.6	46.2	0.6	101%	10.7	9.6	-1.1	90%	22.3	24.0	1.7	108%
	CARROLL	13.8	13.2	-0.6	96%	43.7	40.1	-3.6	92%	10.2	9.7	-0.5	95%	21.5	19.9	-1.6	93%
	CECIL	13.9	16.1	2.2	116%	44.4	49.8	5.4	112%	10.3	10.4	0.1	101%	21.5	23.5	2.0	109%
	FREDERICK	13.5	13.0	-0.5	96%	42.8	38.0	-4.8	89%	10.1	10.3	0.2	102%	20.8	19.2	-1.6	92%
	HARFORD	14.7	17.7	3.0	120%	46.0	52.9	6.9	115%	10.8	11.1	0.3	103%	22.8	27.6	4.8	121%
	HOWARD	14.1	13.6	-0.5	96%	44.5	42.4	-2.1	95%	10.4	10.0	-0.4	96%	21.5	21.1	-0.4	98%
	MONTGOMERY	13.4	13.2	-0.2	99%	43.1	43.7	0.6	101%	9.9	10.1	0.2	102%	20.9	21.4	0.5	102%
	Regional Average	14.0	14.6	0.6	104%	44.3	44.7	0.4	101%	10.3	10.2	-0.2	98%	21.6	22.4	0.8	104%
SOUTHERN REGION	ANNE ARUNDEL	12.9	13.2	0.3	102%	42.3	45.3	3.0	107%	9.4	8.7	-0.7	93%	20.2	20.3	0.1	100%
	CALVERT	13.9	13.5	-0.4	97%	44.3	43.8	-0.5	99%	10.3	9.6	-0.7	93%	21.5	20.4	-1.1	95%
	CHARLES	13.5	12.9	-0.6	96%	42.8	42.7	-0.1	100%	10.0	10.1	0.1	101%	21.0	19.5	-1.5	93%
	PRINCE GEORGES	13.3	12.0	-1.3	90%	42.4	43.3	0.9	102%	9.7	8.5	-1.2	88%	20.5	19.6	-0.9	96%
	ST MARYS	13.8	13.8	0.0	100%	43.9	47.9	4.0	109%	10.2	10.1	-0.1	99%	21.6	21.4	-0.2	99%
	Regional Average	13.5	13.1	-0.4	97%	43.1	44.6	1.5	103%	9.9	9.4	-0.5	95%	21.0	20.2	-0.7	97%
EASTERN REGION	CAROLINE	13.4	14.9	1.5	111%	43.4	45.4	2.0	105%	10.0	9.8	-0.2	98%	21.2	21.6	0.4	102%
	DORCHESTER	13.2	15.2	2.0	115%	43.5	43.6	0.1	100%	9.8	10.2	0.4	104%	20.8	21.3	0.5	102%
	KENT	13.5	14.6	1.1	108%	43.5	43.9	0.4	101%	10.0	9.5	-0.5	95%	21.2	21.0	-0.2	99%
	QUEEN ANNES	13.3	14.8	1.5	111%	43.1	45.1	2.0	105%	9.9	9.3	-0.6	94%	20.9	20.8	-0.1	100%
	SOMERSET	12.9	15.5	2.6	120%	43.0	41.1	-1.9	96%	9.7	11.3	1.6	116%	21.0	21.7	0.7	103%
	TALBOT	13.6	14.3	0.7	105%	43.9	45.8	1.9	104%	10.1	9.6	-0.5	95%	21.3	20.6	-0.7	97%
	WICOMICO	13.3	14.1	0.8	106%	43.8	44.0	0.2	100%	10.1	10.3	0.2	102%	21.4	20.8	-0.6	97%
	WORCESTER	13.9	14.0	0.1	101%	44.3	40.0	-4.3	90%	10.5	10.1	-0.4	96%	22.2	19.7	-2.5	89%
Regional Average	13.4	14.7	1.3	110%	43.6	43.6	0.0	100%	10.0	10.0	-0.0	100%	21.3	20.9	-0.3	99%	
INDEPENDENT CITY OF BALTIMORE		14.3	14.7	0.4	103%	45.3	45.8	0.5	101%	10.4	9.2	-1.2	88%	22.0	23.6	1.6	107%
Statewide Average		13.6	14.0	0.4	103%	43.6	43.9	0.3	101%	10.1	9.8	-0.3	97%	21.2	21.2	0.0	100%

WY¹ - USGS Water Year, which begins October 1

Ground Water Status for 30 November 2022				
Region	USGS Well ID	Well Level[1]	Status	
Western	GA Bc 1	9.17	Normal	Normal
	AL Ah 1	3.58	Normal	
	WA Be 2	30.35	Normal	
	WA Bk 25	45.92	Normal	
Central	BA Dc 444	39.27	Normal	Normal
	BA Ea 18	25.28	Watch	
	HA Bd 31	7.21	Normal	
	HA Ca 23	6.94	Normal	
	MO Cc 14	29.93	Normal	
Eastern	QA Cg 69	3.42	Normal	Normal
	WI Cg 20	4.62	Normal	
	MC51-01	13.27	Normal	
	SO Cf 2	2.38	Watch	
Southern	CH Bg 12 (unconfined)	3.16	Normal	Normal
	AA Cc 40 (confined)	NA[2]	Unknown	
	CA Fd 54 (confined)	237.15	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 2023-2-8 [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:

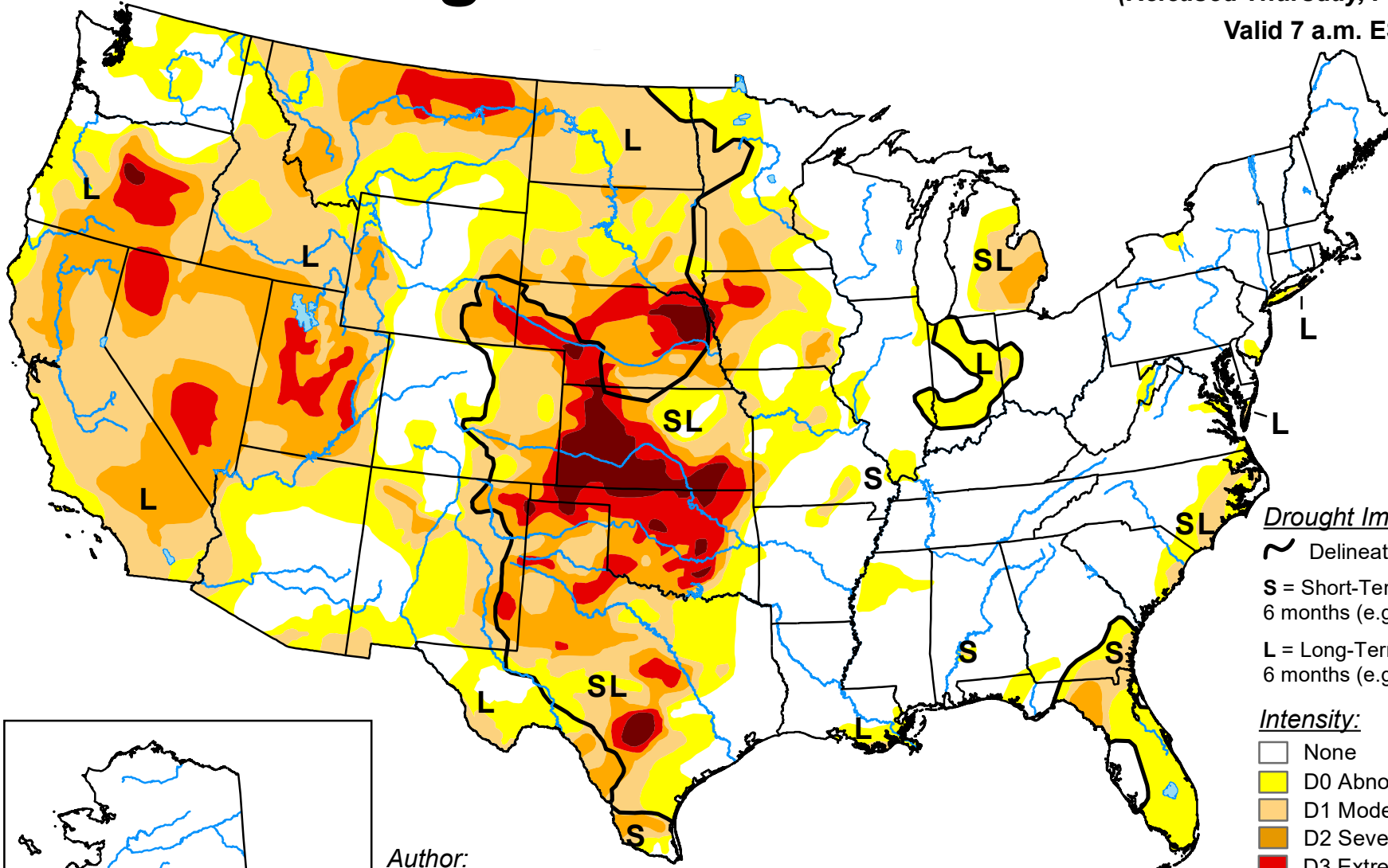
<http://md.water.usgs.gov/groundwater/>

Data for other wells may be downloaded from:

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

U.S. Drought Monitor

January 31, 2023
(Released Thursday, Feb. 2, 2023)
Valid 7 a.m. EST



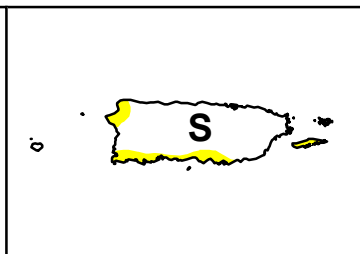
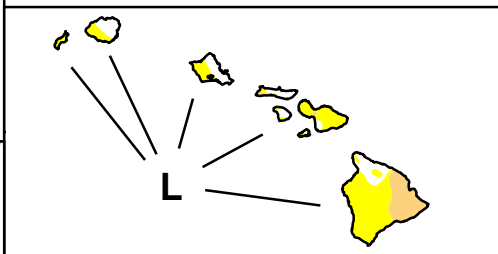
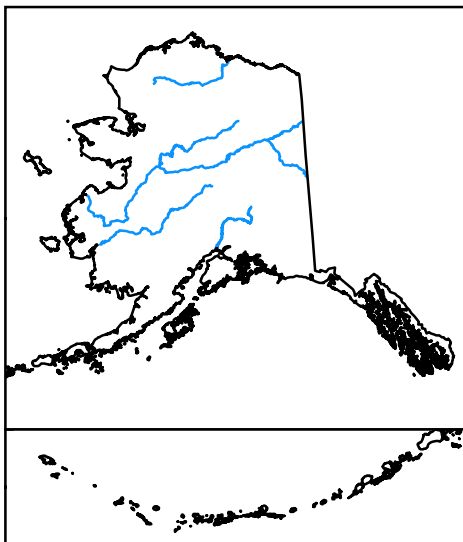
Drought Impact Types:

- ~ 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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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>



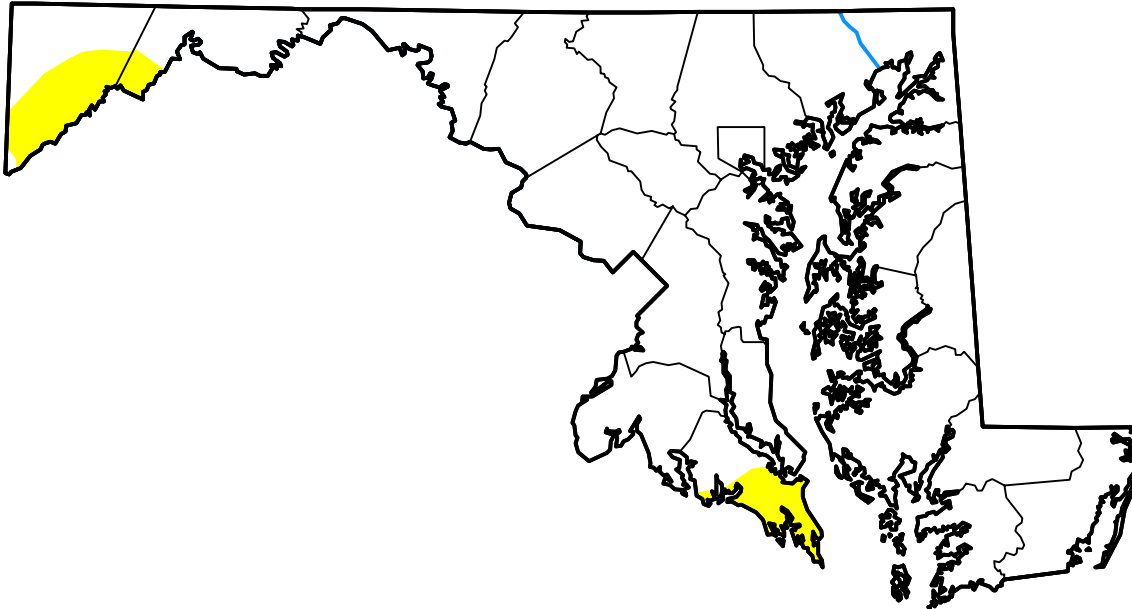
droughtmonitor.unl.edu

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Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	94.45	5.55	0.00	0.00	0.00	0.00
Last Week <i>01-24-2023</i>	94.45	5.55	0.00	0.00	0.00	0.00
3 Months Ago <i>11-01-2022</i>	97.16	2.84	0.00	0.00	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>09-27-2022</i>	65.82	34.18	6.75	0.00	0.00	0.00
One Year Ago <i>02-01-2022</i>	97.75	2.25	0.00	0.00	0.00	0.00



Intensity:



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