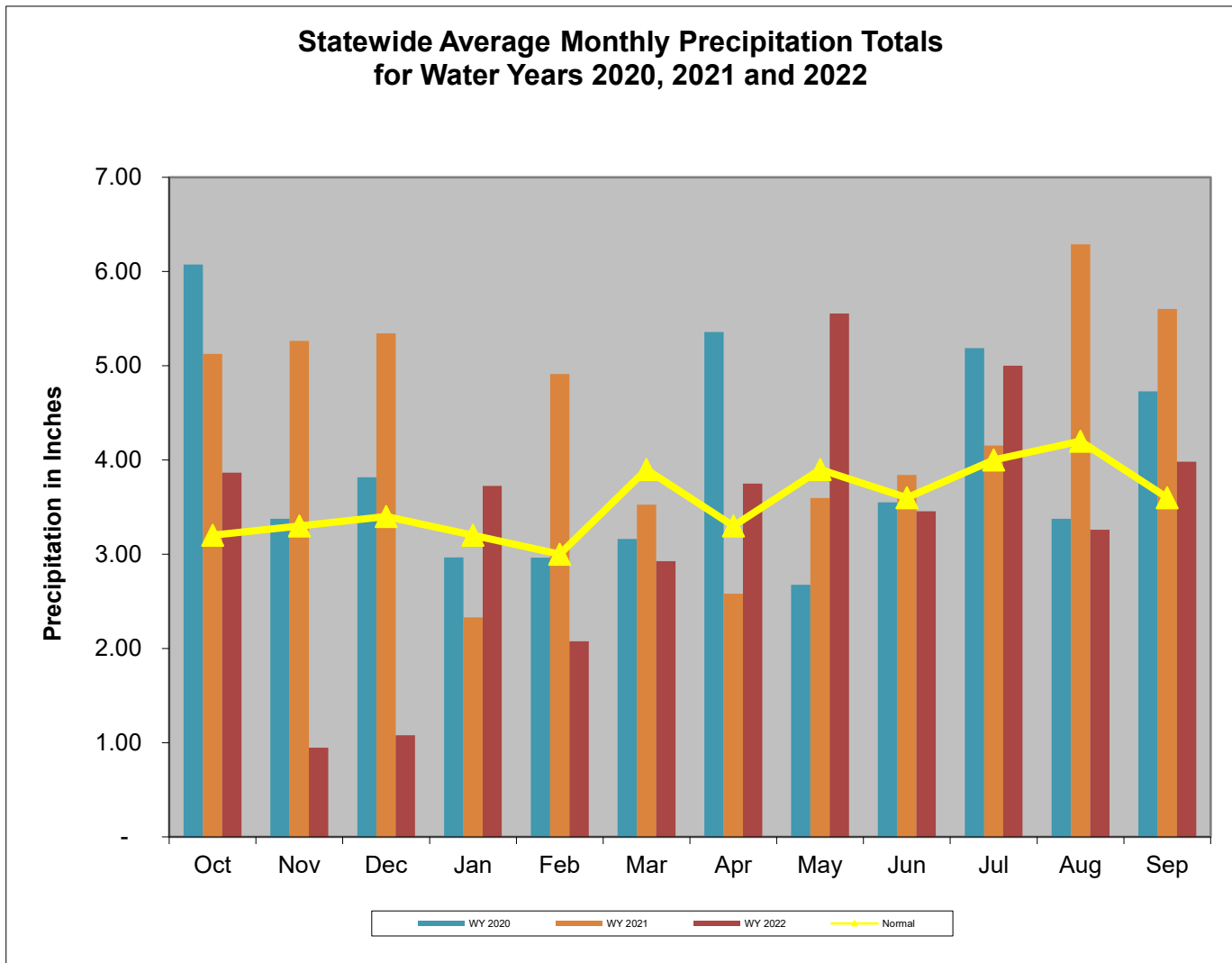


Overall Hydrologic Status for Maryland

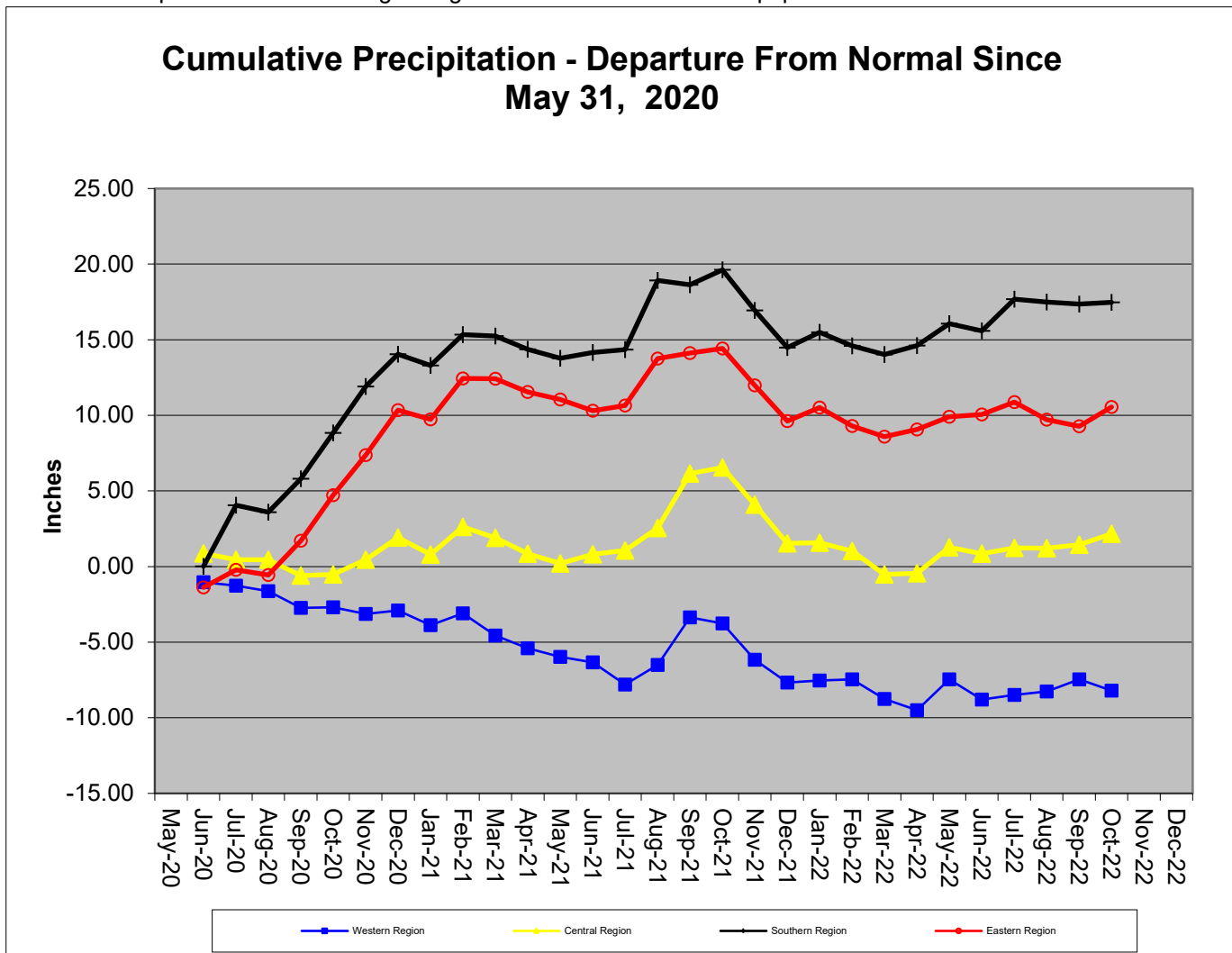
Summary of Hydrologic Indicators for 31-October-2022					
	Rainfall	Stream Flow	Groundwater	Reservoirs	Overall Status
Western	Normal	Normal	Normal	Normal	Normal
Central	Normal	Normal	Normal	Normal	Normal
Eastern	Normal	Normal	Watch		Normal
Southern	Normal		Normal		Normal

Precipitation Indicators for Maryland Drought Regions						
October 31, 2022						
	WY to Date		Since April 30, 2022		Since October 31, 2021	
Regions	Percent of Normal	Condition	Percent of Normal	Condition	Percent of Normal	Condition
Western	90%	Normal	106%	Normal	90%	Normal
Central	89%	Normal	108%	Normal	89%	Normal
Eastern	89%	Normal	103%	Normal	89%	Normal
Southern	97%	Normal	115%	Normal	97%	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 wa



**Precipitation in Maryland Counties
as of 31 October 2022 (WY 2023)**

		Normal Rainfall, Actual Rainfall and Rainfall Departure from Normal in Inches															
		WY ¹ To Date (Since Sep 30, 2022)				12 Months (Since October 31, 2021)				3 Months (Since July 31, 2022)				6 Months (Since April 30, 2022)			
REGION	COUNTY	Normal	Actual	Depart	%	Normal	Actual	Depart	%	Normal	Actual	Depart	%	Normal	Actual	Depart	%
	WESTERN REGION	ALLEGANY	2.8	2.3	-0.5	82%	39.1	34.0	-5.1	87%	9.5	10.4	0.9	109%	21.0	22.2	1.2
GARRETT		3.0	2.3	-0.7	77%	47.1	45.1	-2.0	96%	10.4	11.7	1.3	113%	24.8	27.0	2.2	109%
WASHINGTON		3.1	2.1	-1.0	68%	39.8	33.6	-6.2	84%	10.1	8.8	-1.3	87%	21.4	21.9	0.5	102%
Regional Average		3.0	2.2	-0.7	75%	42.0	37.6	-4.4	89%	10.0	10.3	0.3	103%	22.4	23.7	1.3	106%
CENTRAL REGION	BALTIMORE COUNTY	3.9	5.5	1.6	141%	45.6	42.0	-3.6	92%	11.6	14.4	2.8	124%	24.1	28.3	4.2	117%
	CARROLL	3.6	3.5	-0.1	97%	43.5	35.3	-8.2	81%	11.3	10.2	-1.1	90%	23.3	22.9	-0.4	98%
	CECIL	3.6	5.7	2.1	158%	44.6	44.8	0.2	100%	11.2	13.1	1.9	117%	23.6	28.6	5.0	121%
	FREDERICK	3.4	2.7	-0.7	79%	42.3	32.2	-10.1	76%	10.7	8.9	-1.8	83%	22.6	20.8	-1.8	92%
	HARFORD	3.9	6.6	2.7	169%	45.7	46.9	1.2	103%	12.0	16.5	4.5	138%	24.7	31.9	7.2	129%
	HOWARD	3.7	3.6	-0.1	97%	44.4	38.0	-6.4	86%	11.1	11.1	-0.0	100%	23.5	24.7	1.2	105%
	MONTGOMERY	3.5	3.1	-0.4	89%	42.7	38.9	-3.8	91%	11.0	11.3	0.3	103%	23.2	26.1	2.9	113%
	Regional Average	3.7	4.4	0.7	120%	44.1	39.7	-4.4	90%	11.3	12.2	0.9	108%	23.6	26.2	2.6	111%
SOUTHERN REGION	ANNE ARUNDEL	3.5	4.5	1.0	129%	42.8	42.7	-0.1	100%	10.8	11.6	0.8	107%	22.9	27.0	4.1	118%
	CALVERT	3.6	3.9	0.3	108%	44.1	39.8	-4.3	90%	11.2	10.8	-0.4	96%	23.6	25.1	1.5	106%
	CHARLES	3.5	2.8	-0.7	80%	42.5	38.4	-4.1	90%	11.0	9.4	-1.6	85%	22.9	23.5	0.6	103%
	PRINCE GEORGES	3.6	3.5	-0.1	97%	42.5	40.7	-1.8	96%	10.8	11.1	0.3	103%	22.8	25.3	2.5	111%
	ST MARYS	3.6	3.7	0.1	103%	43.7	43.3	-0.4	99%	11.4	11.3	-0.1	99%	23.4	29.0	5.6	124%
	Regional Average	3.6	3.7	0.1	103%	43.1	41.0	-2.1	95%	11.0	10.8	-0.2	98%	23.1	26.0	2.9	112%
EASTERN REGION	CAROLINE	3.4	5.1	1.7	150%	43.6	41.9	-1.7	96%	11.2	11.8	0.6	105%	23.0	25.4	2.4	110%
	DORCHESTER	3.4	5.0	1.6	147%	43.9	39.7	-4.2	90%	11.0	11.1	0.1	101%	23.2	25.4	2.2	109%
	KENT	3.5	5.1	1.6	146%	43.5	39.3	-4.2	90%	11.2	11.5	0.3	103%	23.2	24.6	1.4	106%
	QUEEN ANNES	3.4	5.5	2.1	162%	43.3	41.6	-1.7	96%	11.0	11.5	0.5	105%	22.9	25.3	2.4	110%
	SOMERSET	3.2	4.2	1.0	131%	43.2	36.7	-6.5	85%	11.3	10.4	-0.9	92%	22.6	22.1	-0.5	98%
	TALBOT	3.5	4.7	1.2	134%	44.0	42.5	-1.5	97%	11.2	11.0	-0.2	98%	23.3	26.0	2.7	112%
	WICOMICO	3.2	3.8	0.6	119%	44.0	40.6	-3.4	92%	11.3	10.5	-0.8	93%	22.8	25.4	2.6	111%
	WORCESTER	3.4	3.9	0.5	115%	44.3	36.6	-7.7	83%	11.7	9.6	-2.1	82%	23.0	21.8	-1.2	95%
Regional Average	3.4	4.7	1.3	138%	43.7	39.9	-3.9	91%	11.2	10.9	-0.3	97%	23.0	24.5	1.5	107%	
INDEPENDENT CITY OF BALTIMORE		3.9	5.5	1.6	141%	45.6	42.0	-3.6	92%	11.6	14.4	2.8	124%	24.1	28.3	4.2	117%
Statewide Average		3.5	4.1	0.6	119%	43.6	39.9	-3.7	91%	11.1	11.3	0.3	103%	23.2	25.4	2.2	109%

WY¹ - USGS Water Year, which begins October 1

Stream Flow Status Based on Thirty Day Average for 2022-October-31

Region	Stream Gage Location	Notes	Status Based on 30 Day Average		
			30 Day Average (cfs)	Percentage	Status
Western	Youghiogheny (near Oakland)		79	50%-55%	Normal
Western	Savage River (near Barton)		17.9	55%-65%	Normal
Western	Wills Creek (near Cumberland)		67	50%-55%	Normal
Western	Marsh Run (at Grimes)		6.4	60%-65%	Normal
Central	Catoctin Creek (near Middletown)		14.5	40%-45%	Normal
Central	Monocacy (Jug Bridge near Frederick)		217	35%-40%	Normal
Central	Patuxent (near Unity)		15.9	45%-50%	Normal
Central	Deer Cr (at Rocks)		108.3	70%-75%	Normal
Eastern	Choptank (near Greensboro)		83.2	70%-75%	Normal
Eastern	Nassawango Creek (near Snow Hill)		12.1	50%-55%	Normal
	Susquehanna (at Marietta)		13,856	50%-55%	Normal
	Potomac (at Little Falls)(Adjusted)		3,595	50%-55%	Normal

Notes:

Ground Water Status for 31 October 2022				
Region	USGS Well ID	Well Level[1]	Status	
Western	GA Bc 1	15.55	Normal	Normal
	AL Ah 1	5.01	Normal	
	WA Be 2	34.95	Normal	
	WA Bk 25	48.74	Watch	
Central	BA Dc 444	39.95	Normal	Normal
	BA Ea 18	25.02	Watch	
	HA Bd 31	9.29	Normal	
	HA Ca 23	8.02	Normal	
	MO Cc 14	33.91	Normal	
Eastern	QA Cg 69	4.75	Normal	Watch
	WI Cg 20	6.57	Normal	
	MC51-01	14.22	Watch	
	SO Cf 2	6.33	Emergency	
Southern	CH Bg 12 (unconfined)	6.73	Normal	Normal
	AA Cc 40 (confined)	NA[2]	Unknown	
	CA Fd 54 (confined)	238.71	On Trend[4]	
	CH Dd 33 (confined)	NA[2]	Unknown	
	PG De 21 (confined)	NA[2]	Unknown	
	SM Fg 45 (confined)	NA[2]	Unknown	
<p>[1] - Measurement of water level as feet below land surface</p> <p>[2] - Not Available as of 2022-11-07</p> <p>[3] - Value computed from real time measurement</p> <p>[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.</p>				

Selected ground water levels are available from USGS at:

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

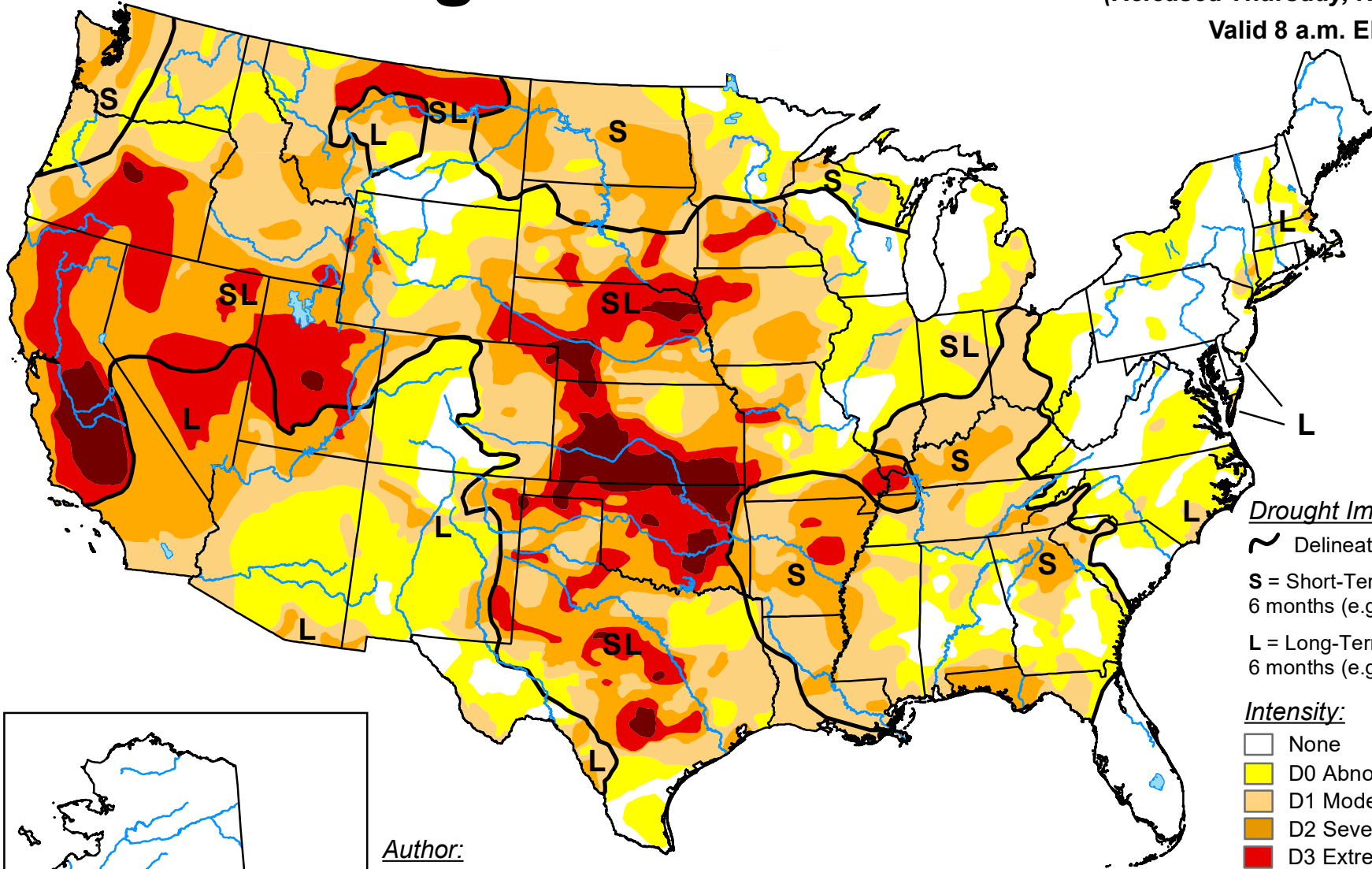
Data for other wells may be downloaded from:

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


U.S. Drought Monitor

November 1, 2022
(Released Thursday, Nov. 3, 2022)







Valid 8 a.m. EDT

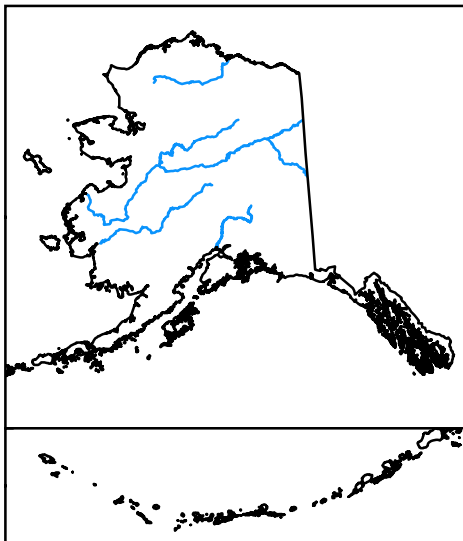


Drought Impact Types:

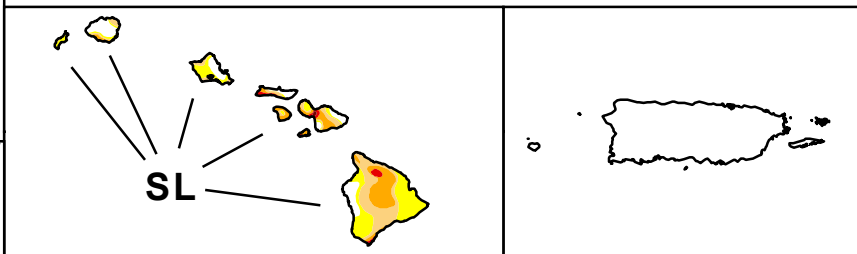
-  Delineates dominant impacts
- S** = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
- L** = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

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>



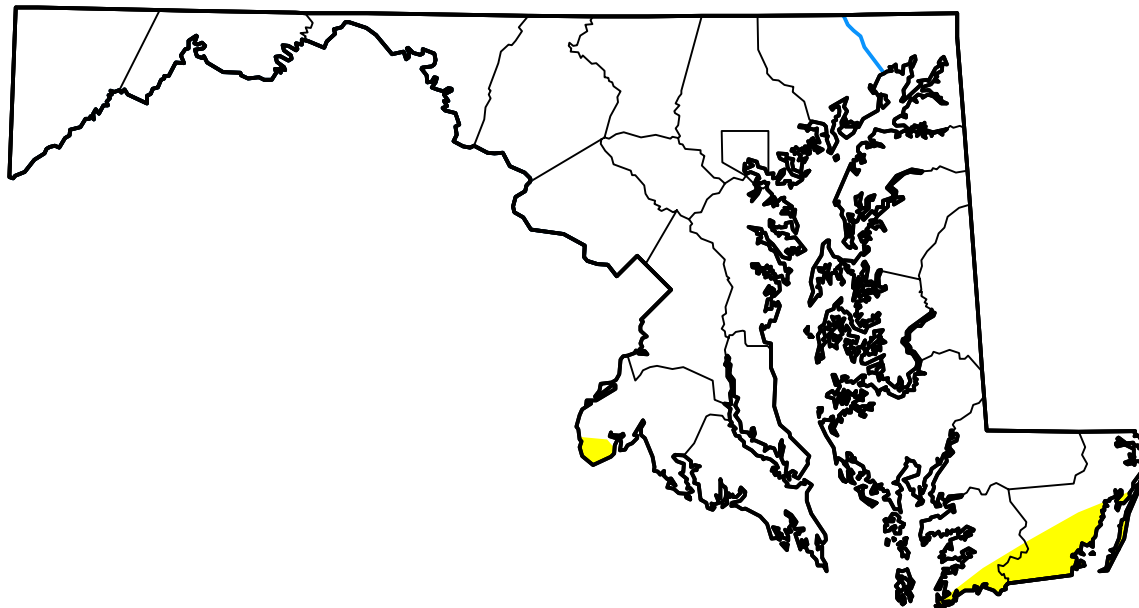
droughtmonitor.unl.edu

U.S. Drought Monitor Maryland

November 1, 2022
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Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	97.16	2.84	0.00	0.00	0.00	0.00
Last Week <i>10-25-2022</i>	97.48	2.52	0.00	0.00	0.00	0.00
3 Months Ago <i>08-02-2022</i>	90.35	9.65	0.00	0.00	0.00	0.00
Start of Calendar Year <i>01-04-2022</i>	55.15	44.85	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>11-02-2021</i>	97.99	2.01	0.00	0.00	0.00	0.00



Intensity:



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>

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