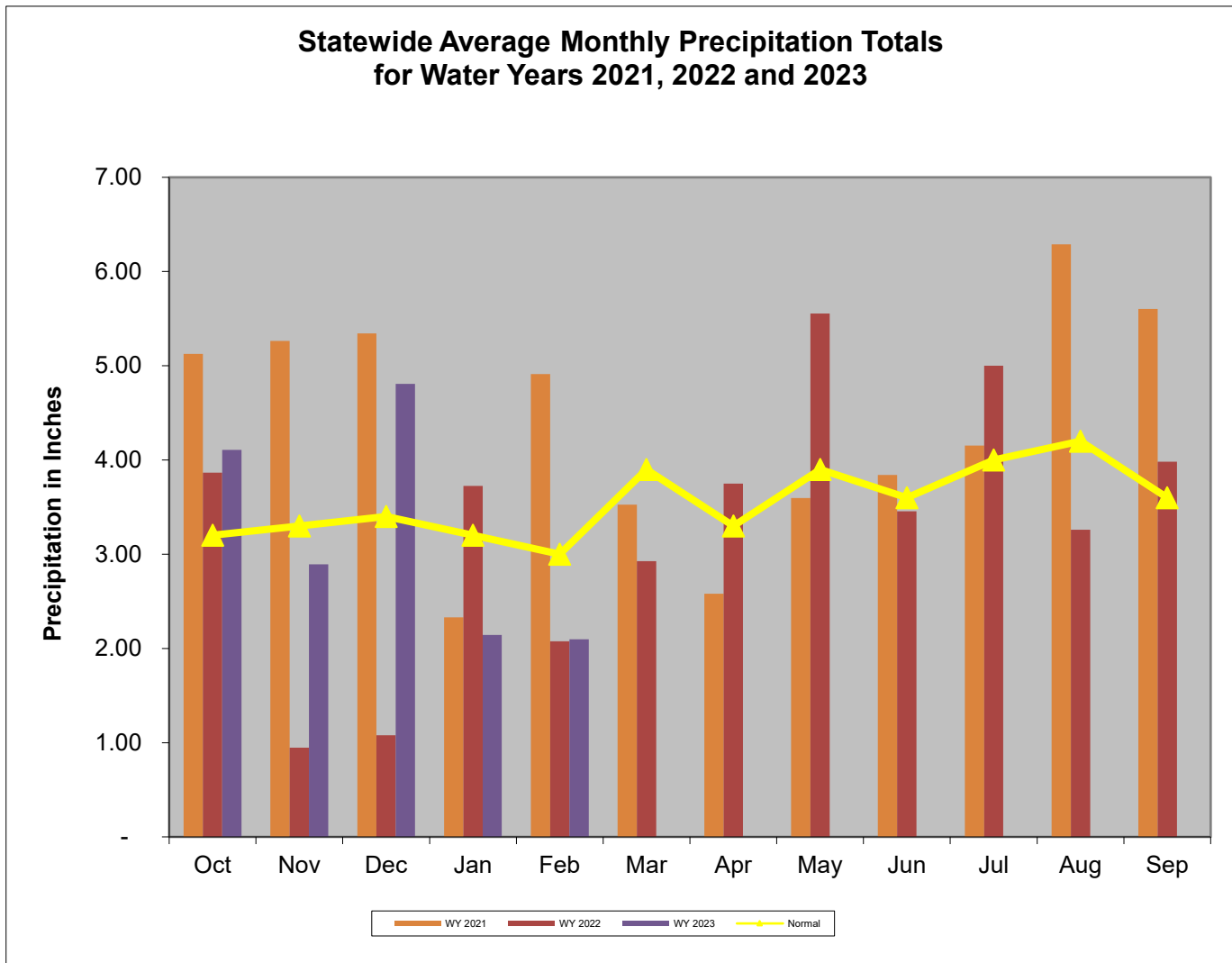


Overall Hydrologic Status for Maryland

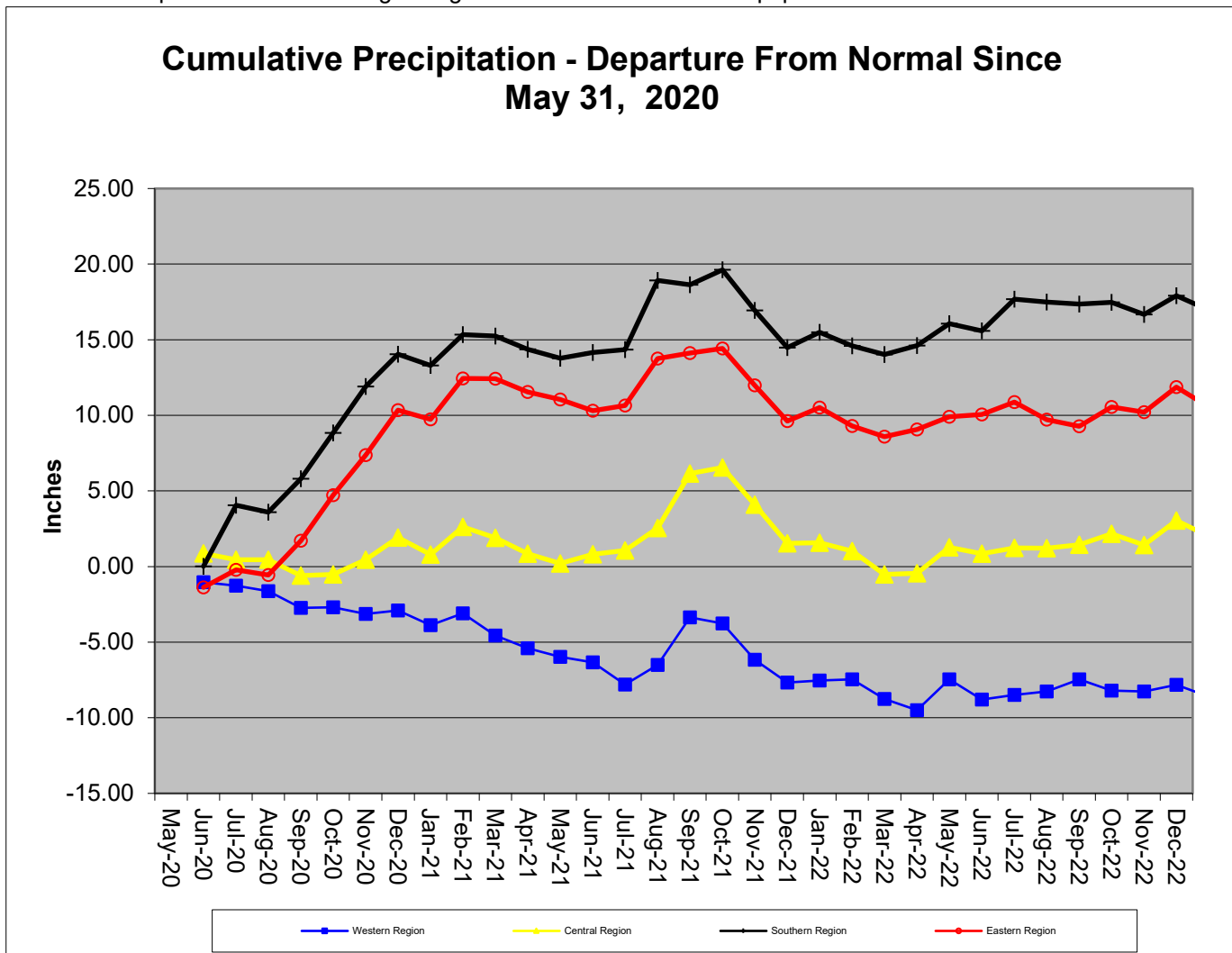
Summary of Hydrologic Indicators for 28-February 2023					
	Rainfall	Stream Flow	Groundwater	Reservoirs	Overall Status
Western	Normal	Normal	Watch	Normal	Normal
Central	Normal	Normal	Normal	Normal	Normal
Eastern	Normal	Normal	Watch		Normal
Southern	Normal		Normal		Normal

Precipitation Indicators for Maryland Drought Regions						
February 28, 2023						
	WY to Date		Since August 31, 2022		Since February 28, 2022	
Regions	Percent of Normal	Condition	Percent of Normal	Condition	Percent of Normal	Condition
Western	90%	Normal	96%	Normal	96%	Normal
Central	100%	Normal	101%	Normal	101%	Normal
Eastern	101%	Normal	99%	Normal	100%	Normal
Southern	94%	Normal	94%	Normal	104%	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 28 February 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 February 28, 2022)				3 Months (November 30, 2022)				6 Months (August 31, 2022)			
	COUNTY	Normal	Actual	Depart	%	Normal	Actual	Depart	%	Normal	Actual	Depart	%	Normal	Actual	Depart	%
WESTERN REGION	ALLEGANY	14.9	14.3	-0.6	96%	40.1	39.2	-0.9	98%	8.9	8.4	-0.5	94%	18.4	18.7	0.3	102%
	GARRETT	16.6	14.0	-2.6	84%	46.4	44.9	-1.5	97%	9.8	8.2	-1.6	84%	20.3	18.8	-1.5	93%
	WASHINGTON	15.4	14.0	-1.4	91%	40.6	38.4	-2.2	95%	9.0	8.9	-0.1	99%	19.2	18.2	-1.0	95%
	Regional Average	15.6	14.1	-1.5	90%	42.4	40.8	-1.5	96%	9.2	8.5	-0.7	92%	19.3	18.6	-0.7	96%
CENTRAL REGION	BALTIMORE COUNTY	17.5	17.5	0.0	100%	45.5	46.5	1.0	102%	9.9	9.4	-0.5	95%	21.9	22.3	0.4	102%
	CARROLL	16.7	15.5	-1.2	93%	43.8	40.2	-3.6	92%	9.6	9.2	-0.4	96%	21.0	19.5	-1.5	93%
	CECIL	16.7	18.1	1.4	108%	44.4	49.1	4.7	111%	9.6	9.6	-0.0	100%	20.7	22.3	1.6	108%
	FREDERICK	16.2	15.1	-1.1	93%	42.7	37.9	-4.8	89%	9.3	9.3	-0.0	100%	20.3	19.1	-1.2	94%
	HARFORD	17.5	19.5	2.0	111%	46.0	52.2	6.2	113%	10.0	10.0	0.0	100%	21.9	24.3	2.4	111%
	HOWARD	17.1	16.3	-0.8	95%	44.5	42.9	-1.6	96%	9.8	10.1	0.3	103%	21.2	20.9	-0.3	99%
	MONTGOMERY	16.2	15.7	-0.5	97%	43.1	43.9	0.8	102%	9.2	9.7	0.5	105%	20.4	20.4	-0.0	100%
	Regional Average	16.8	16.8	-0.0	100%	44.3	44.7	0.4	101%	9.6	9.6	-0.0	100%	21.1	21.3	0.2	101%
SOUTHERN REGION	ANNE ARUNDEL	15.7	15.4	-0.3	98%	42.4	45.3	2.9	107%	8.8	8.7	-0.1	99%	19.6	18.8	-0.8	96%
	CALVERT	16.8	15.6	-1.2	93%	44.3	44.4	0.1	100%	9.8	8.9	-0.9	91%	20.7	19.6	-1.1	95%
	CHARLES	16.3	15.4	-0.9	94%	42.8	43.1	0.3	101%	9.4	9.8	0.4	104%	20.2	18.8	-1.4	93%
	PRINCE GEORGES	16.1	14.2	-1.9	88%	42.4	43.2	0.8	102%	9.0	8.3	-0.7	92%	19.9	17.5	-2.4	88%
	ST MARYS	16.7	15.8	-0.9	95%	44.0	48.5	4.5	110%	9.7	9.2	-0.5	95%	20.6	20.4	-0.2	99%
	Regional Average	16.3	15.3	-1.0	94%	43.2	44.9	1.7	104%	9.3	9.0	-0.4	96%	20.2	19.0	-1.2	94%
EASTERN REGION	CAROLINE	16.1	16.7	0.6	104%	43.3	45.4	2.1	105%	9.3	8.6	-0.7	92%	19.9	20.1	0.2	101%
	DORCHESTER	16.1	16.9	0.8	105%	43.6	44.1	0.5	101%	9.4	8.6	-0.8	91%	19.7	20.4	0.7	104%
	KENT	16.3	16.7	0.4	102%	43.5	43.9	0.4	101%	9.5	9.2	-0.3	97%	20.6	20.0	-0.6	97%
	QUEEN ANNES	16.1	16.9	0.8	105%	43.1	45.2	2.1	105%	9.3	8.9	-0.4	96%	20.2	20.1	-0.1	100%
	SOMERSET	15.9	17.0	1.1	107%	43.0	41.0	-2.0	95%	9.5	9.1	-0.4	96%	19.7	21.1	1.4	107%
	TALBOT	16.4	16.2	-0.2	99%	43.8	46.1	2.3	105%	9.5	8.9	-0.6	94%	20.2	18.7	-1.5	93%
	WICOMICO	16.4	15.6	-0.8	95%	43.8	43.8	0.0	100%	9.9	8.6	-1.3	87%	20.2	19.7	-0.5	98%
	WORCESTER	17.0	15.6	-1.4	92%	44.3	40.0	-4.3	90%	10.2	8.5	-1.7	83%	20.9	19.1	-1.8	91%
Regional Average	16.3	16.5	0.2	101%	43.6	43.7	0.1	100%	9.6	8.8	-0.8	92%	20.2	19.9	-0.3	99%	
INDEPENDENT CITY OF BALTIMORE		17.2	17.1	-0.1	99%	45.2	46.1	0.9	102%	9.6	9.0	-0.6	94%	21.6	21.9	0.3	101%
Statewide Average		16.4	16.0	-0.4	98%	43.6	44.0	0.4	101%	9.5	9.0	-0.5	95%	20.4	20.0	-0.4	98%

WY¹ - USGS Water Year, which begins October 1

Stream Flow Status Based on Thirty Day Average for 2023 February 28

Region	Stream Gage Location	Notes	Status Based on 30 Day Average		
			30 Day Average (cfs)	Percentage	Status
Western	Youghiogheny (near Oakland)		350	30%-35%	Normal
Western	Savage River (near Barton)		71.3	25%-30%	Normal
Western	Wills Creek (near Cumberland)		309	25%-30%	Normal
Western	Marsh Run (at Grimes)		12.0	40%-45%	Normal
Central	Catoctin Creek (near Middletown)		59.6	20%-25%	Normal
Central	Monocacy (Jug Bridge near Frederick)		598	15%-20%	Watch
Central	Patuxent (near Unity)		40.3	30%-35%	Normal
Central	Deer Cr (at Rocks)	[1]	108.0	25%-30%	Normal
Eastern	Choptank (near Greensboro)		144.3	25%-30%	Normal
Eastern	Nassawango Creek (near Snow Hill)		36.0	10%-15%	Watch
	Susquehanna (at Marietta)		31,714	30%-35%	Normal
	Potomac (at Little Falls)(Adjusted)		9,756	25%-30%	Normal

Notes:

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

Ground Water Status for 28 February 2023				
Region	USGS Well ID	Well Level[1]	Status	
Western	GA Bc 1	12.13	Watch	Normal
	AL Ah 1	4.44	Watch	
	WA Be 2	31.06	Normal	
	WA Bk 25	46.95	Warning	
Central	BA Dc 444	39.33	Normal	Normal
	BA Ea 18	24.85	Watch	
	HA Bd 31	7.62	Normal	
	HA Ca 23	6.61	Normal	
	MO Cc 14	27.33	Normal	
Eastern	QA Cg 69	3.09	Normal	Normal
	WI Cg 20	4.57	Normal	
	MC51-01	13.29	Watch	
	SO Cf 2	1.90	Warning	
Southern	CH Bg 12 (unconfined)	2.86	Normal	Normal
	AA Cc 40 (confined)	NA[2]	Unknown	
	CA Fd 54 (confined)	236.40	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 2023-3-8</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:

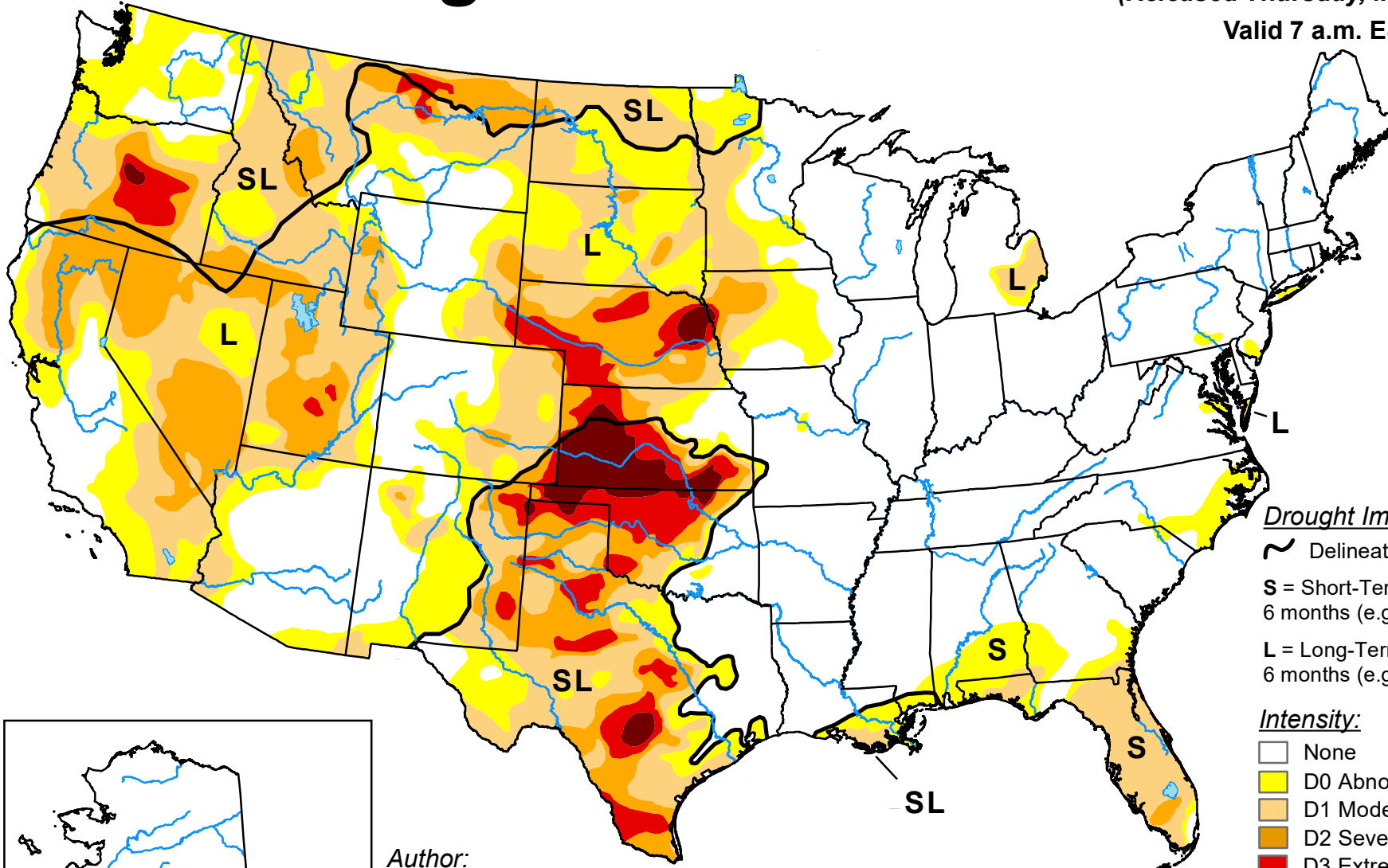
[USGS - NWIS Web Information for USA](https://www.water.usgs.gov/nwis/)

U.S. Drought Monitor


March 7, 2023

(Released Thursday, Mar. 9, 2023)







Valid 7 a.m. EST



Drought Impact Types:

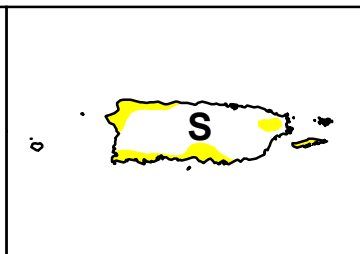
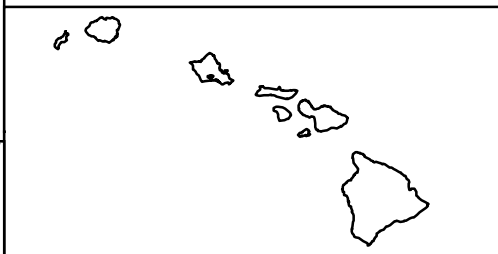
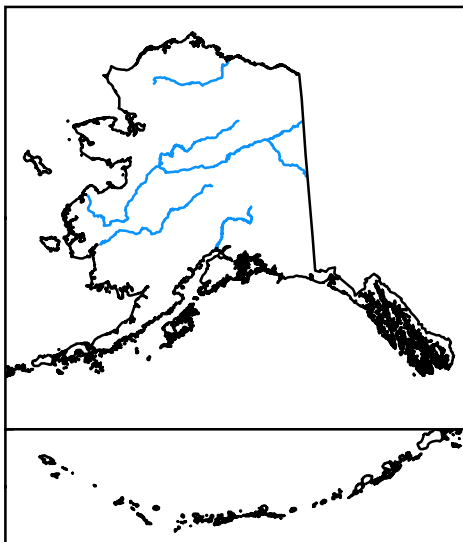
-  Delineates dominant impacts
- S** = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
- L** = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

Intensity:

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

Author:
Deborah Bathke
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

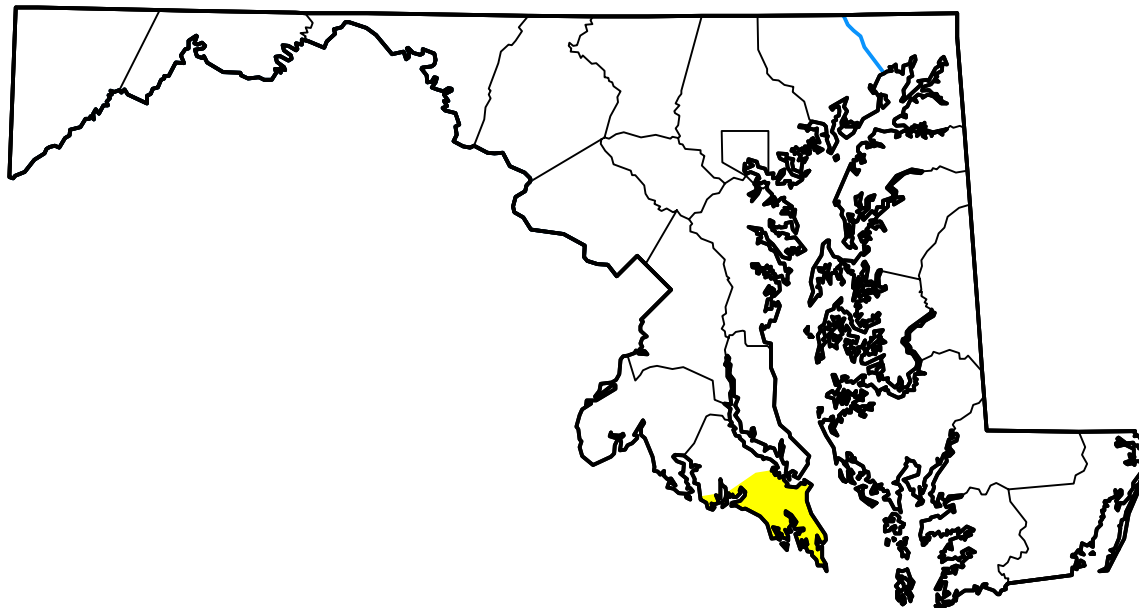
U.S. Drought Monitor

Maryland

March 7, 2023
 (Released Thursday, Mar. 9, 2023)
 Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	98.13	1.87	0.00	0.00	0.00	0.00
Last Week <i>02-28-2023</i>	79.63	20.37	0.00	0.00	0.00	0.00
3 Months Ago <i>12-06-2022</i>	92.80	7.20	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>03-08-2022</i>	13.89	86.11	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>

Author:

Deborah Bathke
 National Drought Mitigation Center



droughtmonitor.unl.edu