

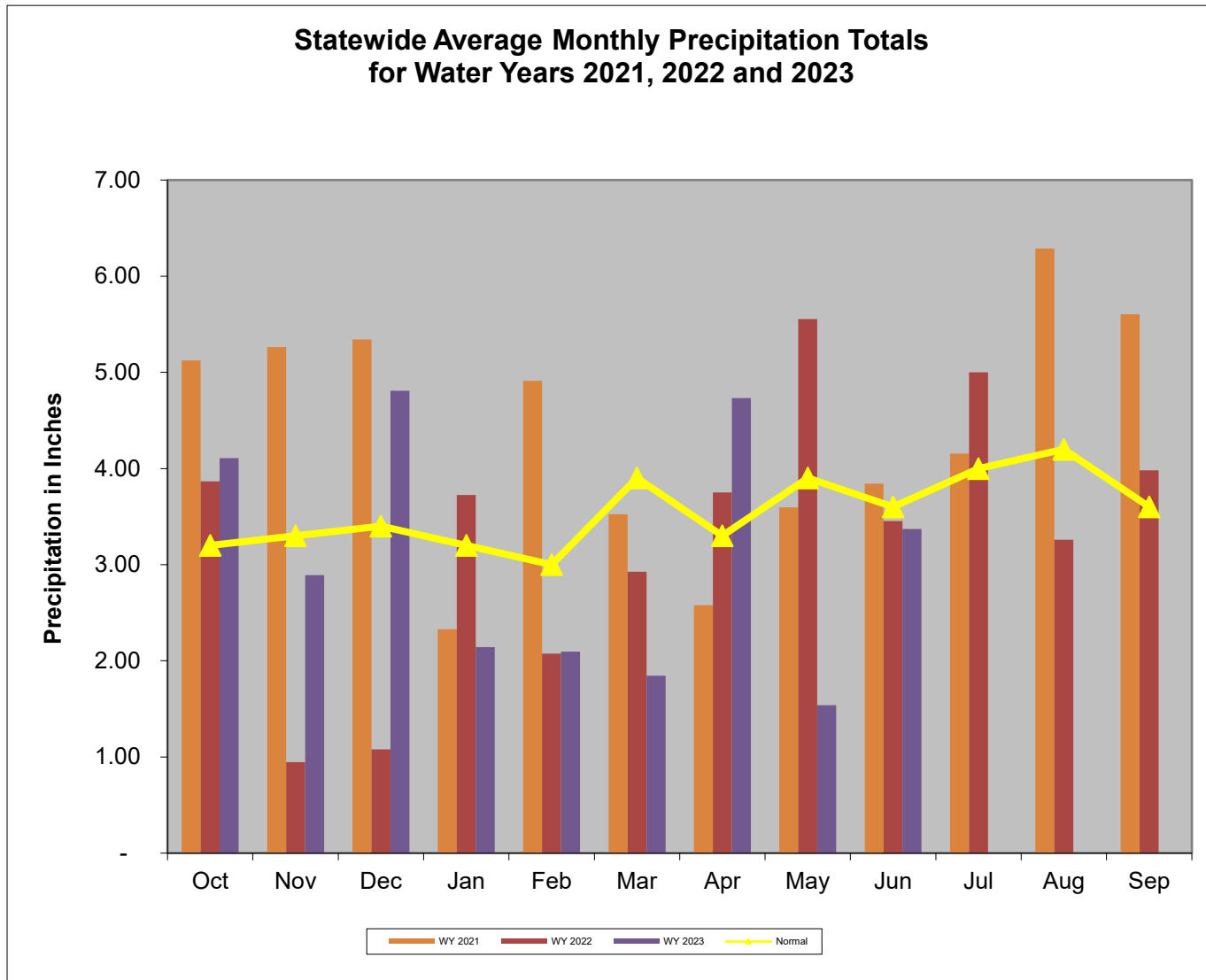
## Overall Hydrologic Status for Maryland

Summary of Hydrologic Indicators for 30-June 2023					
	Rainfall	Stream Flow	Groundwater	Reservoirs	Overall Status
Western	Watch	Watch	Warning	Normal	Watch
Central	Normal	Warning	Warning	Normal	Watch
Eastern	Normal	Normal	Normal		Normal
Southern	Watch		Normal		Normal

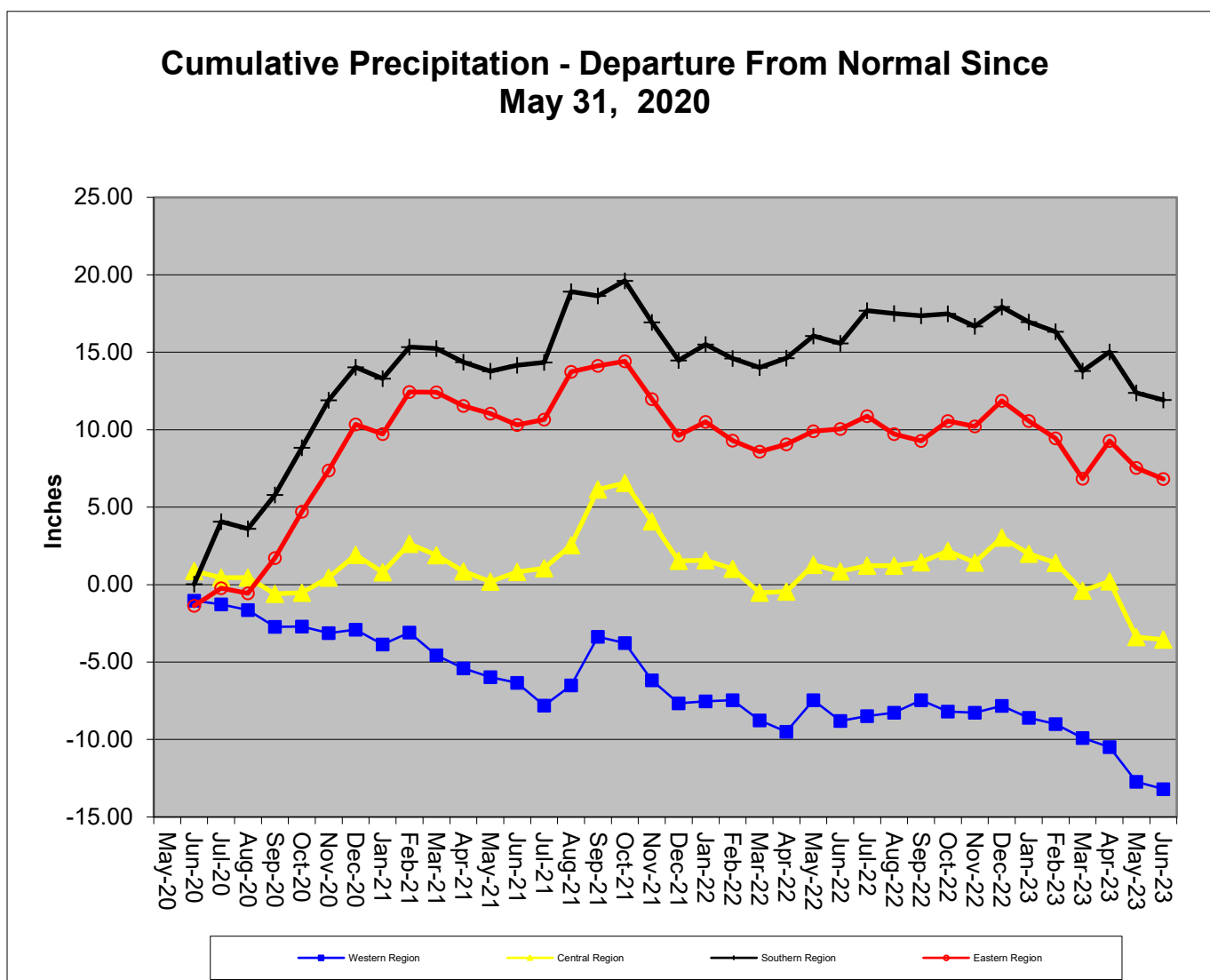
Notes: Reservoir data for WSSC and Western MD for the month of June was not available as of 7/3/2023

Precipitation Indicators for Maryland Drought Regions						
June 30, 2023						
	WY to Date		Since Dec 31, 2022		Since June 30, 2022	
Regions	Percent of Normal	Condition	Percent of Normal	Condition	Percent of Normal	Condition
Western	82%	Watch	75%	Watch	90%	Normal
Central	85%	Normal	70%	Watch	90%	Normal
Eastern	92%	Normal	76%	Watch	93%	Normal
Southern	83%	Watch	72%	Watch	92%	Normal

WY or Water Year begins on October 1



Data downloaded from [http://www.weather.gov/marfc/Precipitation\\_Departures](http://www.weather.gov/marfc/Precipitation_Departures)



**Precipitation in Maryland Counties  
as of 30 June 2023 (WY 2023)**

		Normal Rainfall, Actual Rainfall and Rainfall Departure from Normal in Inches															
		WY <sup>1</sup> To Date (Since September 30, 2022)				12 Months (Since June 30, 2022)				3 Months (Since March 31, 2023)				6 Months (Since December 30, 2022)			
		COUNTY	Normal	Actual	Depart	%	Normal	Actual	Depart	%	Normal	Actual	Depart	%	Normal	Actual	Depart
WESTERN REGION	ALLEGANY	29.8	24.8	-5.0	83%	40.1	36.7	-3.4	92%	11.3	7.9	-3.4	70%	20.9	16.1	-4.8	77%
	GARRETT	34.0	28.9	-5.1	85%	46.4	43.7	-2.7	94%	13.3	11.5	-1.8	86%	23.6	19.9	-3.7	84%
	WASHINGTON	30.1	23.0	-7.1	76%	40.6	33.5	-7.1	83%	11.2	6.5	-4.7	58%	20.7	13.1	-7.6	63%
	Regional Average	31.3	25.6	-5.7	82%	42.4	38.0	-4.4	90%	11.9	8.6	-3.3	72%	21.7	16.4	-5.4	75%
CENTRAL REGION	BALTIMORE COUNTY	33.6	28.4	-5.2	85%	45.5	41.9	-3.6	92%	12.0	8.8	-3.2	73%	22.4	15.4	-7.0	69%
	CARROLL	32.1	25.4	-6.7	79%	43.8	36.3	-7.5	83%	11.6	7.6	-4.0	66%	21.6	14.3	-7.3	66%
	CECIL	32.4	31.6	-0.8	98%	44.4	44.2	-0.2	100%	11.6	11.4	-0.2	98%	21.6	17.7	-3.9	82%
	FREDERICK	31.7	25.1	-6.6	79%	42.7	34.9	-7.8	82%	11.8	7.6	-4.2	64%	21.6	14.2	-7.4	66%
	HARFORD	33.4	31.3	-2.1	94%	46.0	46.6	0.6	101%	11.9	9.7	-2.2	82%	22.3	16.6	-5.7	74%
	HOWARD	33.1	25.8	-7.3	78%	44.5	37.2	-7.3	84%	12.0	7.6	-4.4	63%	22.3	14.6	-7.7	65%
	MONTGOMERY	31.7	25.4	-6.3	80%	43.1	38.0	-5.1	88%	11.7	7.8	-3.9	67%	21.5	14.3	-7.2	67%
	Regional Average	32.6	27.6	-5.0	85%	44.3	39.9	-4.4	90%	11.8	8.6	-3.2	73%	21.9	15.3	-6.6	70%
SOUTHERN REGION	ANNE ARUNDEL	31.0	26.1	-4.9	84%	42.3	39.6	-2.7	94%	11.4	9.2	-2.2	81%	20.7	14.7	-6.0	71%
	CALVERT	32.6	27.8	-4.8	85%	44.3	40.5	-3.8	91%	11.8	11.0	-0.8	93%	22.1	16.4	-5.7	74%
	CHARLES	31.3	25.2	-6.1	81%	42.8	37.3	-5.5	87%	11.2	8.4	-2.8	75%	21.1	15.1	-6.0	72%
	PRINCE GEORGES	31.1	24.1	-7.0	77%	42.3	37.3	-5.0	88%	11.3	8.3	-3.0	73%	20.7	13.8	-6.9	67%
	ST MARYS	32.0	27.6	-4.4	86%	44.0	42.7	-1.3	97%	11.2	10.6	-0.6	95%	21.6	16.2	-5.4	75%
	Regional Average	31.6	26.2	-5.4	83%	43.1	39.5	-3.7	92%	11.4	9.5	-1.9	83%	21.2	15.2	-6.0	72%
EASTERN REGION	CAROLINE	31.4	29.2	-2.2	93%	43.3	40.9	-2.4	94%	11.3	11.0	-0.3	97%	21.2	15.9	-5.3	75%
	DORCHESTER	31.7	29.2	-2.5	92%	43.6	41.1	-2.5	94%	11.5	10.9	-0.6	95%	21.5	15.9	-5.6	74%
	KENT	31.7	29.0	-2.7	91%	43.5	40.1	-3.4	92%	11.4	10.7	-0.7	94%	21.4	16.2	-5.2	76%
	QUEEN ANNES	31.5	29.1	-2.4	92%	43.2	39.9	-3.3	92%	11.4	10.7	-0.7	94%	21.2	15.9	-5.3	75%
	SOMERSET	30.5	30.6	0.1	100%	43.0	41.6	-1.4	97%	10.4	12.0	1.6	115%	20.8	17.1	-3.7	82%
	TALBOT	31.9	28.0	-3.9	88%	43.8	38.8	-5.0	89%	11.5	10.3	-1.2	90%	21.5	15.7	-5.8	73%
	WICOMICO	31.5	28.9	-2.6	92%	43.8	41.8	-2.0	95%	10.9	11.8	0.9	108%	21.5	16.6	-4.9	77%
	WORCESTER	31.7	28.3	-3.4	89%	44.3	38.5	-5.8	87%	10.4	11.3	0.9	109%	21.3	16.7	-4.6	78%
Regional Average	31.5	29.0	-2.5	92%	43.6	40.3	-3.2	93%	11.1	11.1	-0.0	100%	21.3	16.3	-5.1	76%	
INDEPENDENT CITY OF BALTIMORE		33.3	28.0	-5.3	84%	45.2	41.5	-3.7	92%	12.0	8.8	-3.2	73%	22.1	15.0	-7.1	68%
<b>Statewide Average</b>		31.9	27.5	-4.3	86%	43.6	39.8	-3.8	91%	11.5	9.6	-1.9	84%	21.6	15.7	-5.8	73%

WY<sup>1</sup> - USGS Water Year, which begins October 1

### Stream Flow Status Based on Thirty Day Average for 2023 June 30

Region	Stream Gage Location	Notes	Status Based on 30 Day Average		
			30 Day Average (cfs)	Percentage	Status
Western	Youghiogheny (near Oakland)		67	15%-20%	Watch
Western	Savage River (near Barton)		13.2	10%-15%	Watch
Western	Wills Creek (near Cumberland)		69	5%-10%	Warning
Western	Marsh Run (at Grimes)		5.8	10%-15%	Watch
Central	Catoctin Creek (near Middletown)		17.7	10%-15%	Watch
Central	Monocacy (Jug Bridge near Frederick)		182	0%-5%	Emergency
Central	Patuxent (near Unity)		11.8	5%-10%	Warning
Central	Deer Cr (at Rocks)		70.6	15%-20%	Watch
Eastern	Choptank (near Greensboro)		30.6	10%-15%	Watch
Eastern	Nassawango Creek (near Snow Hill)		11.1	30%-35%	Normal
	Susquehanna (at Marietta)		10,819	5%-10%	Warning
	Potomac (at Little Falls)(Adjusted)		3,394	5%-10%	Warning

Notes:

Ground Water Status for 30 June 2023				
Region	USGS Well ID	Well Level[1]	Status	
Western	GA Bc 1	13.83	Normal	Warning
	AL Ah 1	4.57	Normal	
	WA Be 2	34.15	Warning	
	WA Bk 25	48.75	Emergency	
Central	BA Dc 444	40.32	Warning	Warning
	BA Ea 18	24.83	Emergency	
	HA Bd 31	12.34	Warning	
	HA Ca 23	7.84	Warning	
	MO Cc 14	36.23	Warning	
Eastern	QA Cg 69	4.36	Normal	Normal
	WI Cg 20	5.75	Normal	
	MC51-01	13.09	Watch	
	SO Cf 2	3.24	Normal	
Southern	CH Bg 12 (unconfined)	6.15	Watch	Normal
	AA Cc 40 (confined)	NA[2]	Unknown	
	CA Fd 54 (confined)	239.47	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 2023-6-30 [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:

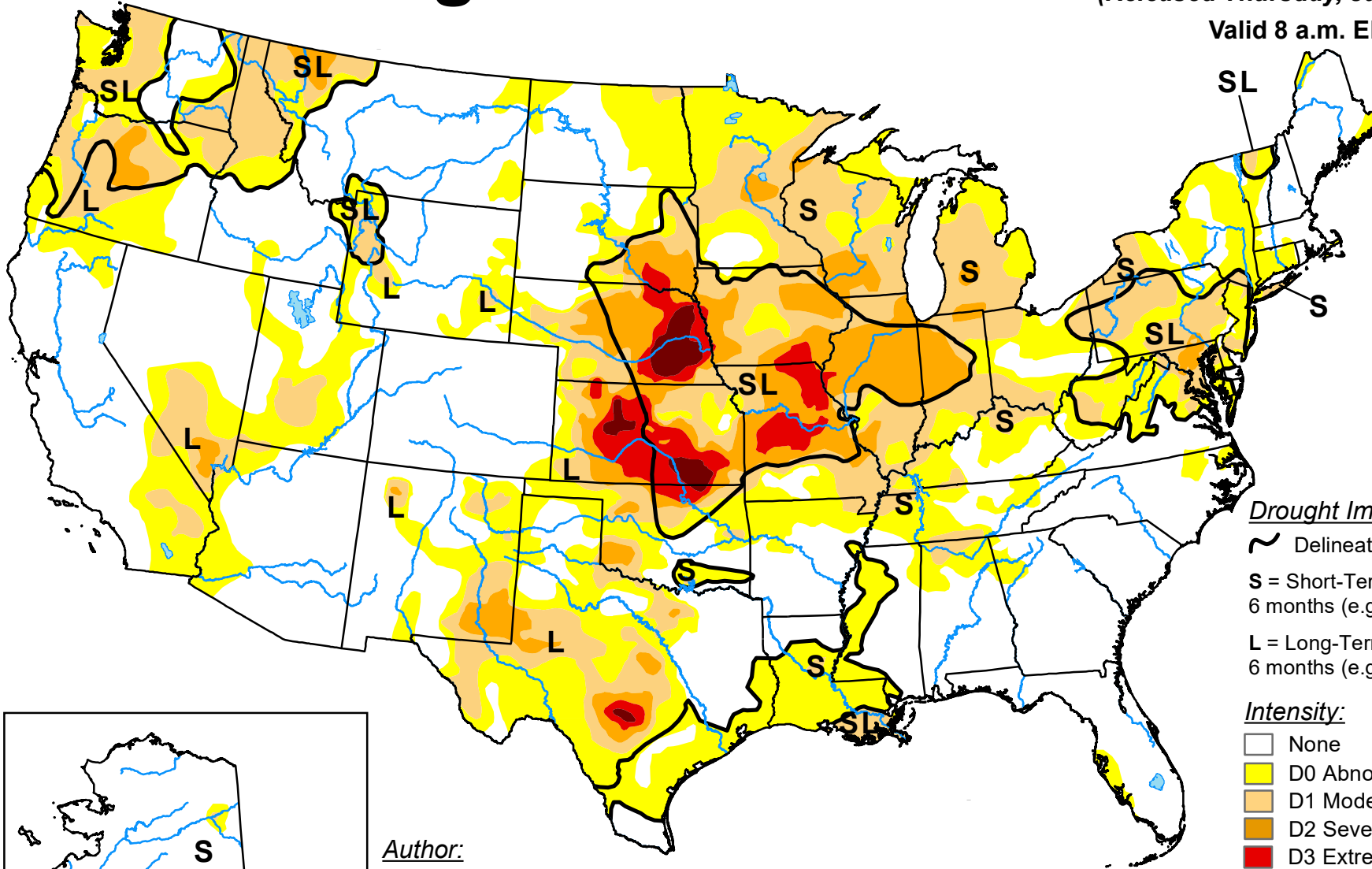
[USGS - NWIS Web Information for USA](http://www.water.usgs.gov/nwis/)

# U.S. Drought Monitor


June 27, 2023

(Released Thursday, Jun. 29, 2023)







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

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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>



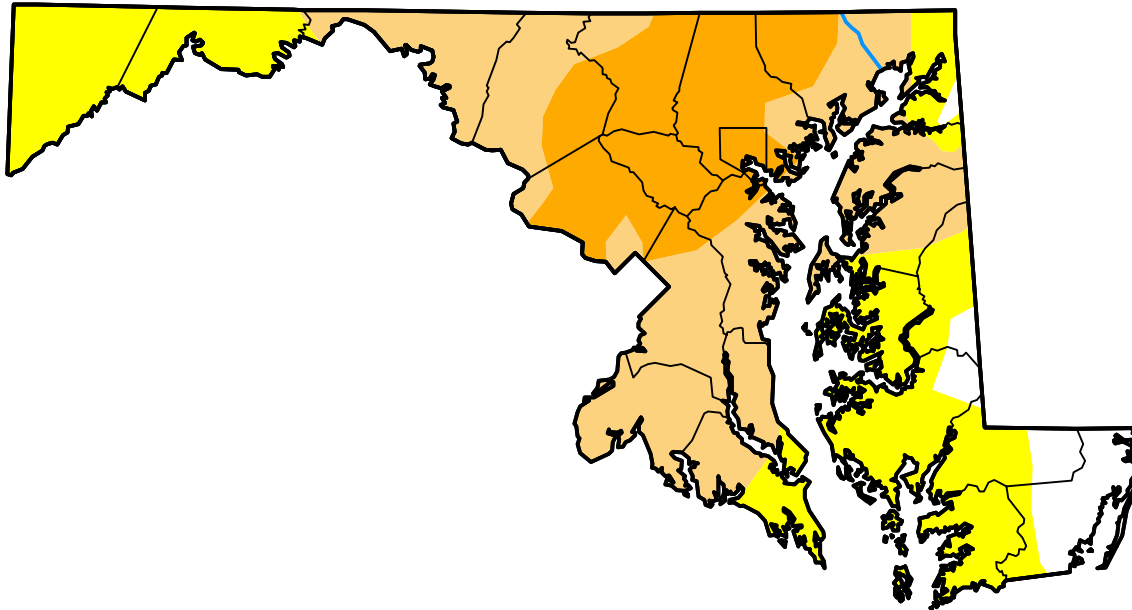
[droughtmonitor.unl.edu](https://droughtmonitor.unl.edu)

# U.S. Drought Monitor Maryland

**June 27, 2023**  
(Released Thursday, Jun. 29, 2023)  
Valid 8 a.m. EDT

## Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	6.78	93.22	60.18	22.54	0.00	0.00
<b>Last Week</b> <i>06-20-2023</i>	5.11	94.89	72.59	24.41	0.00	0.00
<b>3 Months Ago</b> <i>03-28-2023</i>	31.89	68.11	26.93	0.00	0.00	0.00
<b>Start of Calendar Year</b> <i>01-03-2023</i>	100.00	0.00	0.00	0.00	0.00	0.00
<b>Start of Water Year</b> <i>09-27-2022</i>	65.82	34.18	6.75	0.00	0.00	0.00
<b>One Year Ago</b> <i>06-28-2022</i>	94.10	5.90	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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