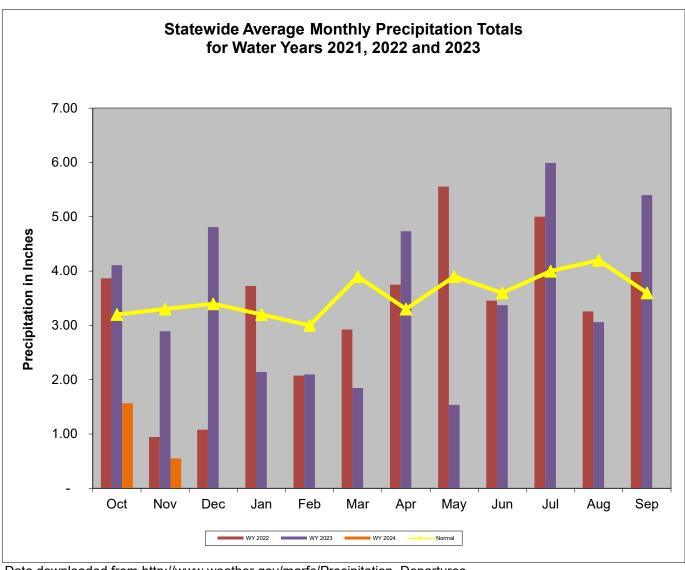
### **Overall Hydrologic Status for Maryland**

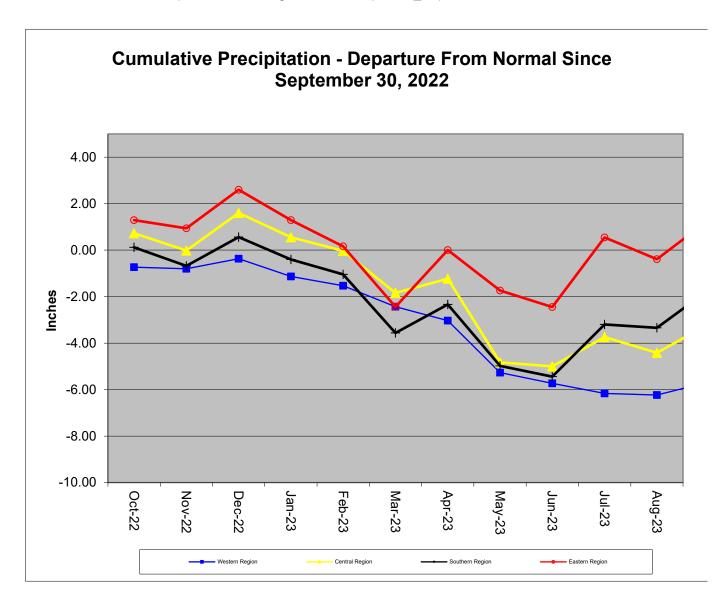
Summary of Hydrologic Indicators for 15-November 2023										
Rainfall Stream Flow Groundwater Reservoirs Overall Status										
Western	Normal	Normal	Warning	Normal	Watch					
Central	Warning	Watch	Warning	Normal	Warning					
Eastern	Normal	Normal	Normal		Normal					
Southern	Watch		Normal		Normal					

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

Precipitation Indicators for Maryland Drought Regions										
November 15, 2023										
	Since August 31, 2023 Since May 31, 2022 Since Nov 30, 202									
	Percent of		Percent of		Percent of					
Regions	Normal	Condition	Normal Condition		Normal	Condition				
Western	75%	Normal	84%	Normal	81%	Watch				
Central	64%	Warning	84%	Normal	81%	Watch				
Eastern	73%	Watch	93%	Normal	90%	Normal				
Southern	68%	Watch	92%	Normal	86%	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 November 2023 (WY 2024)

as of 15 November 2025 (WT 2024)																	
Normal Rainfall, Actual Rainfall and Rainfall Departure from Normal in Inches																	
	WY <sup>1</sup> To Date			11.5 Months			2.5 Months				5.5 Months						
		(Since September 30, 2023)		(Since November 30, 2022)			(Since August 31, 2023)			23)	(Since May 31, 2023)						
	COUNTY	Normal A	Actual	Depart	%	Normal	Actual	Depart	%	Normal A	ctual	Depart	%	Normal A	Actual I	Depart	%
WESTERN REGION	ALLEGANY	5.8	2.5	-3.3	43%	39.9	32.2	-7.7	81%	9.3	7.0	-2.3	75%	19.8	16.7	-3.1	84%
	GARRETT	6.4	4.8	-1.6	75%	46.0	40.1	-5.9	87%	10.1	8.6	-1.5	85%	23.3	21.4	-1.9	92%
EG	WASHINGTON	6.2	2.1	-4.1	34%	40.4	30.4	-10.0	75%	10.0	6.5	-3.5	65%	20.5	15.3	-5.2	75%
M S S	Regional Average	6.1	3.1	-3.0	51%	42.1	34.2	-7.9	81%	9.8	7.4	-2.4	75%	21.2	17.8	-3.4	84%
	BALTIMORE COUNT	7.6	2.0	-5.6	26%	45.5	37.6	-7.9	83%	12.0	8.1	-3.9	68%	23.3	21.1	-2.2	91%
ō	CARROLL	7.1	1.7	-5.4	24%	43.8	31.6	-12.2	72%	11.4	6.3	-5.1	55%	22.5	14.9	-7.6	66%
CENTRAL REGION	CECIL	7.1	1.8	-5.3	25%	44.8	40.3	-4.5	90%	11.5	7.6	-3.9	66%	23.4	23.1	-0.3	99%
<u>~</u>	FREDERICK	6.8	1.9	-4.9	28%	42.6	31.7	-10.9	74%	10.9	6.6	-4.3	61%	21.6	15.0	-6.6	69%
<b>K</b> AL	HARFORD	7.6	2.1	-5.5	28%	46.1	39.4	-6.7	85%	12.0	7.7	-4.3	64%	24.1	22.5	-1.6	93%
Ë	HOWARD	7.3	1.7	-5.6	23%	44.5	34.9	-9.6	78%	11.4	7.3	-4.1	64%	22.6	18.2	-4.4	81%
Щ	MONTGOMERY	6.9	1.5	-5.4	22%	42.9	34.9	-8.0	81%		7.6	-3.4	69%	22.1	18.7	-3.4	85%
O	Regional Average	7.2	1.8	-5.4	25%	44.3	35.8	-8.5	81%	11.5	7.3	-4.1	64%	22.8	19.1	-3.7	84%
_	ANNE ARUNDEL	6.9	2.0	-4.9	29%	42.3	37.7	-4.6	89%	10.8	7.8	-3.0	72%	21.9	21.7	-0.2	99%
K Z	CALVERT	7.0	2.2	-4.8	31%	44.3	39.2	-5.1	88%	10.9	8.6	-2.3	79%	22.7	22.1	-0.6	97%
뿔 읐	CHARLES	6.9	1.5	-5.4	22%	42.8	35.4	-7.4	83%		6.3	-4.5	58%	22.3	18.8	-3.5	84%
SOUTHERN REGION	PRINCE GEORGES	7.1	1.6	-5.5	23%	42.3	36.0	-6.3	85%	10.9	7.2	-3.7	66%	22.1	20.9	-1.2	95%
SO R	ST MARYS	7.0	2.1	-4.9	30%	44.0	36.8	-7.2	84%	10.9	7.1	-3.8	65%	22.7	19.1	-3.6	84%
,	Regional Average	7.0	1.9	-5.1	27%	43.1	37.0	-6.1	86%		7.4	-3.5	68%	22.3	20.5	-1.8	92%
	CAROLINE	6.7	2.5	-4.2	37%	43.2	43.3	0.1	100%		9.0	-1.5	86%	22.3	24.6	2.3	110%
N <sub>O</sub>	DORCHESTER	52.9	48.3	-4.6	91%		40.0	-3.6	92%		7.2	-3.1	70%	22.6	21.8	-0.8	96%
EASTERN REGION	KENT	51.7	46.8	-4.9	91%	43.6	39.3	-4.3	90%	11.2	8.0	-3.2	71%	22.4	21.6	-0.8	96%
R	QUEEN ANNES	52.2	47.7	-4.5	91%	43.1	39.7	-3.4	92%	10.8	8.1	-2.7	75%	22.2	21.4	-0.8	96%
Z	SOMERSET	50.6	46.3	-4.3	92%	43.0	38.4	-4.6	89%	10.2	7.1	-3.1	70%	22.4	18.9	-3.5	84%
护	TALBOT	50.0	45.6	-4.4	91%	43.7	38.3	-5.4	88%	10.7	6.6	-4.1	62%	22.5	20.1	-2.4	89%
ST	WICOMICO	51.3	46.8	-4.5	91%	43.7	39.8	-3.9	91%	10.2	8.6	-1.6	84%	22.4	21.4	-1.0	96%
ΕΔ	WORCESTER	48.1	43.3	-4.8	90%	44.3	36.2	-8.1	82%	10.7	7.4	-3.3	69%	22.9	18.1	-4.8	79%
Regional Average		45.4	40.9	-4.5	90%	43.5	39.4	-4.2	90%	10.6	7.8	-2.8	73%	22.5	21.0	-1.5	93%
	NT CITY OF BALTIMORE	7.6	2.0	-5.6	26%	45.2	37.2	-8.0	82%	12.0	8.1	-3.9	68%	23.3	21.1	-2.2	91%
State	wide Average	19.8	15.0	-4.8	76%	43.6	37.1	-6.5	85%	10.9	7.5	-3.3	69%	22.4	19.9	-2.5	89%
14041 11000																	

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

Stream Flow Status Based on Thirty Day Average for 2023 November 15									
			Status Based on 30 Day Average						
			30 Day Average						
Region	Stream Gage Location	Notes	(cfs)	Percentage	Status				
Western	Youghiogheny (near Oakland)		156	55%-60%	Normal				
Western	Savage River (near Barton)		13.3	60%-65%	Normal				
Western	Wills Creek (near Cumberland)		38	35%-40%	Normal				
Western	Marsh Run (at Grimes)		4.6	35%-40%	Normal				
Central	Catoctin Creek (near Middletown)		4.5	10%-15%	Watch				
Central	Monocacy (Jug Bridge near Frederick)		102	5%-10%	Warning				
Central	Patuxent (near Unity)		9.1	20%-25%	Watch				
Central	Deer Cr (at Rocks)		42.4	15%-20%	Watch				
Eastern	Choptank (near Greensboro)		38.5	55%-60%	Normal				
Eastern	Nassawango Creek (near Snow Hill)		9.0	45%-50%	Normal				
	Susquehanna (at Marietta)		19,884	75%-80%	Normal				
	Potomac (at Little Falls)(Adjusted)		1,738	5%-10%	Warning				

Notes:

Ground Water Status for 15 November 2023								
Region	USGS Well ID	Well Level[1]	Status					
	GA Bc 1	14.56 [03]	Normal					
Western	AL Ah 1	4.54 [02]	Normal	Warning				
WESIGIII	WA Be 2	35.87 [02]	Warning	vvarring				
	WA Bk 25	50.85 [03]	Emergency					
	BA Dc 444	43.17 [03]	Warning					
	BA Ea 18	27.05 [02]						
Central	HA Bd 31	12.5 [02]	Normal	Warning				
	HA Ca 23	7.98 [02]	Normal					
	MO Cc 14	38.33 [02]	Normal					
	QA Cg 69	3.89 [02]	Normal					
Eastern	WI Cg 20	6 [02]	Normal	Normal				
Lasiciii	MC51-01	13.2 [03]	Normal	Noma				
	SO Cf 2	5.52[03]	Normal					
	CH Bg 12 (unconfined)	5.0 [03]	Normal					
	AA Cc 40 (confined)	NA[2]	Unknown					
Southern	CA Fd 54 (confined)	241.68	On Trend[4]	Normal				
Southern	CH Dd 33 (confined)	NA[2]	Unknown	Norman				
	PG De 21 (confined)	NA[2]	Unknown					
[4] N4	SM Fg 45 (confined)	NA[2]	Unknown					

<sup>[1] -</sup> Measurement of water level as feet below land surface

Selected ground water levels are available from USGS at:

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

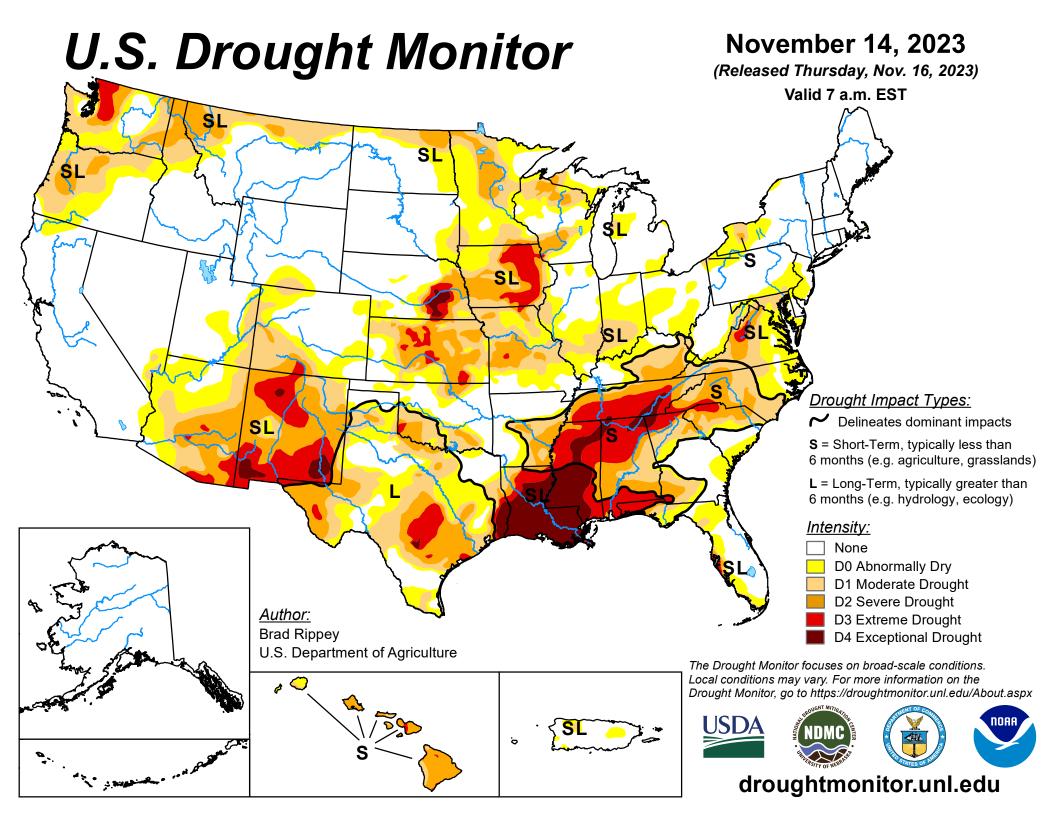
Data for other wells may be downloaded from:

USGS - NWIS Web Information for USA

<sup>[2] -</sup> Not Available as of 2023-11-21

<sup>[3] -</sup> Value computed from real time measurement

<sup>[4] -</sup> 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.



# U.S. Drought Monitor Maryland

#### **November 14, 2023**

(Released Thursday, Nov. 16, 2023)
Valid 7 a.m. EST

#### Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	12.57	87.43	33.19	0.47	0.00	0.00
Last Week 11-07-2023	12.82	87.18	9.86	0.47	0.00	0.00
3 Months Ago 08-15-2023	73.81	26.19	15.68	0.00	0.00	0.00
Start of Calendar Year 01-03-2023	100.00	0.00	0.00	0.00	0.00	0.00
Start of Water Year 09-26-2023	63.11	36.89	3.30	0.47	0.00	0.00
One Year Ago 11-15-2022	88.79	11.21	0.00	0.00	0.00	0.00

#### Intensity:

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

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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U.S. Department of Agriculture









droughtmonitor.unl.edu