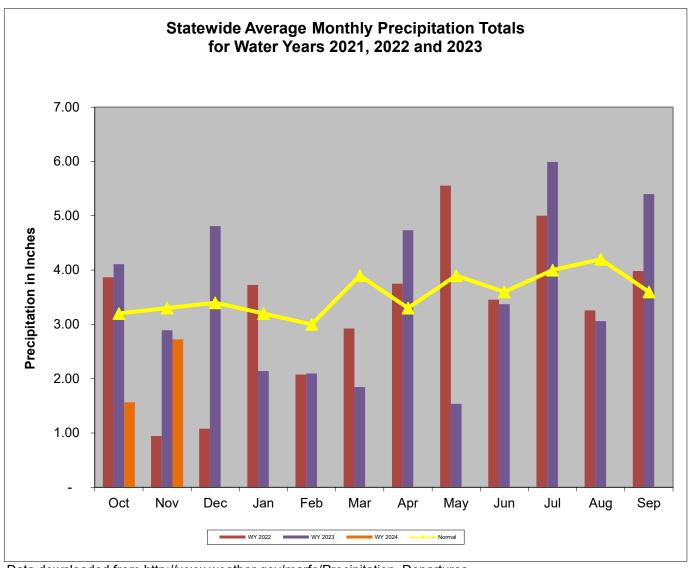
Overall Hydrologic Status for Maryland

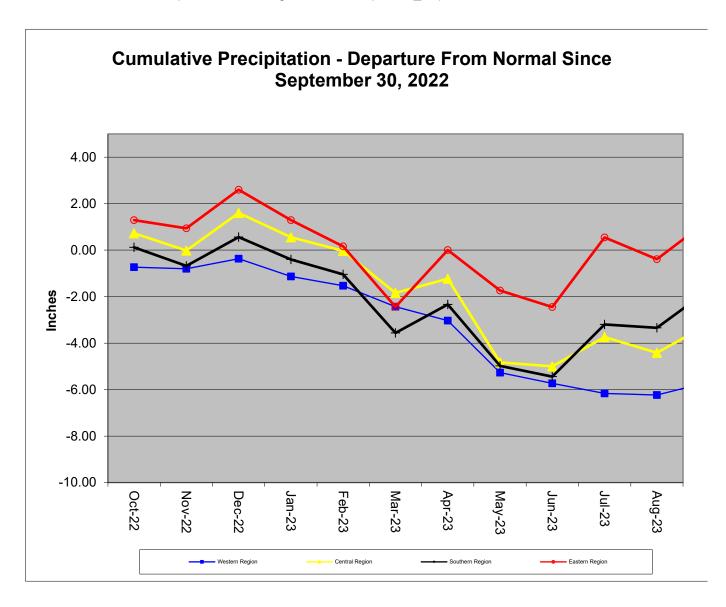
Summary of Hydrologic Indicators for 30-November 2023										
Rainfall Stream Flow Groundwater Reservoirs Overall Statu										
Western	Normal	Normal	Warning	Normal	Watch					
Central	Normal	Watch	Warning	Normal	Warning					
Eastern	Normal	Normal	Normal		Normal					
Southern	Normal		Normal		Normal					

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

Precipitation Indicators for Maryland Drought Regions											
November 30, 2023											
	Since August 31, 2023 Since May 31, 2022 Since Nov 30, 2022										
	Percent of		Percent of		Percent of						
Regions	Normal	Condition	Normal Condition		Normal	Condition					
Western	90%	Normal	91%	Normal	85%	Watch					
Central	84%	Normal	94%	Normal	86%	Normal					
Eastern	93%	Normal	103%	Normal	95%	Normal					
Southern	89%	Normal	102%	Normal	91%	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 30 November 2023 (WY 2024)

as of so November 2023 (WT 2024)																	
	Normal Rainfall, Actual Rainfall and Rainfall Departure from Normal in Inches																
		WY ¹ To Date			12 Months			3 Months			6 Months						
		(Since September 30, 2023)		(Since November 30, 2022)			(Since August 31, 2023)			(Since May 31, 2023)							
	COUNTY	Normal A	Actual	Depart	%	Normal	Actual	Depart	%	Normal A	Actual	Depart	%	Normal	Actual	Depart	%
WESTERN REGION	ALLEGANY	6.0	4.3	-1.7	72%	40.1	34.0	-6.1	85%	9.5	8.8	-0.7	93%	20.0	18.5	-1.5	93%
	GARRETT	6.8	5.8	-1.0	85%	46.4	41.1	-5.3	89%	10.5	9.6	-0.9	91%	23.7	22.4	-1.3	95%
EG	WASHINGTON	6.4	4.3	-2.1	67%	40.6	32.6	-8.0	80%	10.2	8.7	-1.5	85%	20.7	17.5	-3.2	85%
M ≪	Regional Average	6.4	4.8	-1.6	75%	42.4	35.9	-6.5	85%	10.1	9.0	-1.0	90%	21.5	19.5	-2.0	91%
	BALTIMORE COUNT	7.6	4.4	-3.2	58%	45.5	40.0	-5.5	88%	12.0	10.5	-1.5	88%	23.3	23.5	0.2	101%
Ō	CARROLL	7.1	3.8	-3.3	54%	43.8	33.7	-10.1	77%	11.4	8.4	-3.0	74%	22.5	17.0	-5.5	76%
CENTRAL REGION	CECIL	7.1	4.7	-2.4	66%	44.8	43.2	-1.6	96%	11.5	10.5	-1.0	91%	23.4	26.0	2.6	111%
~	FREDERICK	6.9	4.1	-2.8	59%		33.9	-8.8	79%	11.0	8.8	-2.2	80%	21.7	17.2	-4.5	79%
₹	HARFORD	7.5	4.6	-2.9	61%		41.9	-4.1	91%	11.9	10.2	-1.7	86%	24.0	25.0		104%
l É	HOWARD	7.3	3.9	-3.4	53%		37.1	-7.4	83%	11.4	9.5	-1.9	83%		20.4	-2.2	90%
Z W	MONTGOMERY	7.0	3.6	-3.4	51%		37.0	-6.0	86%	11.1	9.7	-1.4	87%	22.2	20.8	-1.4	94%
O	Regional Average	7.2	4.2	-3.1	58%	44.3	38.1	-6.2	86%	11.5	9.7	-1.8	84%	22.8	21.4	-1.4	94%
7	ANNE ARUNDEL	6.9	4.4	-2.5	64%		40.1	-2.2	95%	10.8	10.2	-0.6	94%	21.9	24.1	2.2	110%
K Z	CALVERT	7.0	4.6	-2.4	66%		41.6	-2.7	94%	10.9	11.0	0.1	101%	22.7	24.5	1.8	108%
불 응	CHARLES	6.9	3.7	-3.2	54%		37.6	-5.2	88%	10.8	8.5	-2.3	79%	22.3	21.0	-1.3	94%
T E	PRINCE GEORGES	7.1	3.9	-3.2	55%		38.3	-4.0	91%	10.9	9.5	-1.4	87%	22.1	23.2	1.1	105%
SOUTHERN REGION	ST MARYS	7.0	4.1	-2.9	59%		38.8	-5.2	88%	10.9	9.1	-1.8	83%	22.7	21.1	-1.6	93%
	Regional Average	7.0	4.1	-2.8	59%		39.3	-3.9	91%	10.9	9.7	-1.2	89%		22.8	0.4	102%
	CAROLINE	6.8	4.7	-2.1	69%		45.5	2.2	105%	10.6	11.2	0.6	106%		26.8	4.4	120%
N _O	DORCHESTER	52.9	50.5	-2.4	95%		42.2	-1.4	97%	10.3	9.4	-0.9	91%	22.6	24.0		106%
<u>G</u>	KENT	51.6	49.4	-2.2	96%	43.5	41.9	-1.6	96%	11.1	10.6	-0.5	95%	22.3	24.2	1.9	109%
光	QUEEN ANNES	52.3	50.1	-2.2	96%		42.1	-1.1	97%	10.9	10.5	-0.4	96%	22.3	23.8		107%
Z	SOMERSET	50.6	48.2	-2.4	95%	43.0	40.3	-2.7	94%	10.2	9.0	-1.2	88%	22.4	20.8	-1.6	93%
Ä K	TALBOT	50.0	47.6	-2.4	95%	43.7	40.3	-3.4	92%	10.7	8.6	-2.1	80%	22.5	22.1	-0.4	98%
EASTERN REGION	WICOMICO	51.4	48.8	-2.6	95%		41.8	-2.0	95%	10.3	10.6	0.3	103%	22.5	23.4	0.9	104%
EA	WORCESTER	48.1	45.1	-3.0	94%		38.0	-6.3	86%	10.7	9.2	-1.5	86%	22.9	19.9	-3.0	87%
	Regional Average	45.5	43.1	-2.4	95%	43.6	41.5	-2.0	95%	10.6	9.9	-0.7	93%	22.5	23.1	0.6	103%
	NT CITY OF BALTIMORE	7.6	4.4	-3.2	58%	45.2	39.6	-5.6	88%	12.0	10.5	-1.5	88%	23.3	23.5	0.2	101%
	wide Average	19.8	17.2	-2.6	87%	43.6	39.3	-4.3	90%	10.9	9.7	-1.2	89%	22.5	22.1	-0.3	98%
11000	14/ / 1/ 1/ 1																

WY¹ - USGS Water Year, which begins October 1

Stream Flow Status Based on Thirty Day Average for 2023 November 30										
			Status Based on 30 Day Averag							
			30 Day Average							
Region	Stream Gage Location	Notes	(cfs)	Percentage	Status					
Western	Youghiogheny (near Oakland)		236	55%-60%	Normal					
Western	Savage River (near Barton)		26.5	35%-40%	Normal					
Western	Wills Creek (near Cumberland)		71	30%-35%	Normal					
Western	Marsh Run (at Grimes)		5.2	35%-40%	Normal					
Central	Catoctin Creek (near Middletown)		10.7	5%-10%	Warning					
Central	Monocacy (Jug Bridge near Frederick)		247	15%-20%	Watch					
Central	Patuxent (near Unity)		14.9	15%-20%	Watch					
Central	Deer Cr (at Rocks)		54.1	10%-15%	Watch					
Eastern	Choptank (near Greensboro)		57.5	45%-50%	Normal					
Eastern	Nassawango Creek (near Snow Hill)		10.9	25%-30%	Normal					
	Susquehanna (at Marietta)		22,580	35%-40%	Normal					
	Potomac (at Little Falls)(Adjusted)		2,916	15%-20%	Watch					

Notes:

Ground Water Status for 30 November 2023									
Region	USGS Well ID	Well Level[1]	Status						
	GA Bc 1	14.60	Normal						
Western	AL Ah 1	5.34	Watch	Warning					
Westelli	WA Be 2	36.09	Warning	vvairiiig					
	WA Bk 25	50.94	Emergency						
	BA Dc 444	43.16	Warning						
	BA Ea 18	27.53	Emergency						
Central	HA Bd 31	13.82	Normal	Warning					
	HA Ca 23	7.92	Normal						
	MO Cc 14	39.21	Normal						
	QA Cg 69	3.58	Normal						
Eastern	WI Cg 20	5.58	Normal	Normal					
Lastern	MC51-01	13.12	Normal	Nomiai					
	SO Cf 2	5.41 [3]	Watch						
	CH Bg 12 (unconfined)	3.58	Normal						
	AA Cc 40 (confined)	NA[2]	Unknown						
Southern	CA Fd 54 (confined)	241.54	On Trend[4]	Normal					
Codulelli	CH Dd 33 (confined)	NA[2]	Unknown	Horman					
	PG De 21 (confined)	NA[2]	Unknown						
	SM Fg 45 (confined)	NA[2]	Unknown						

^{[1] -} Measurement of water level as feet below land surface

Selected ground water levels are available from USGS at:

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

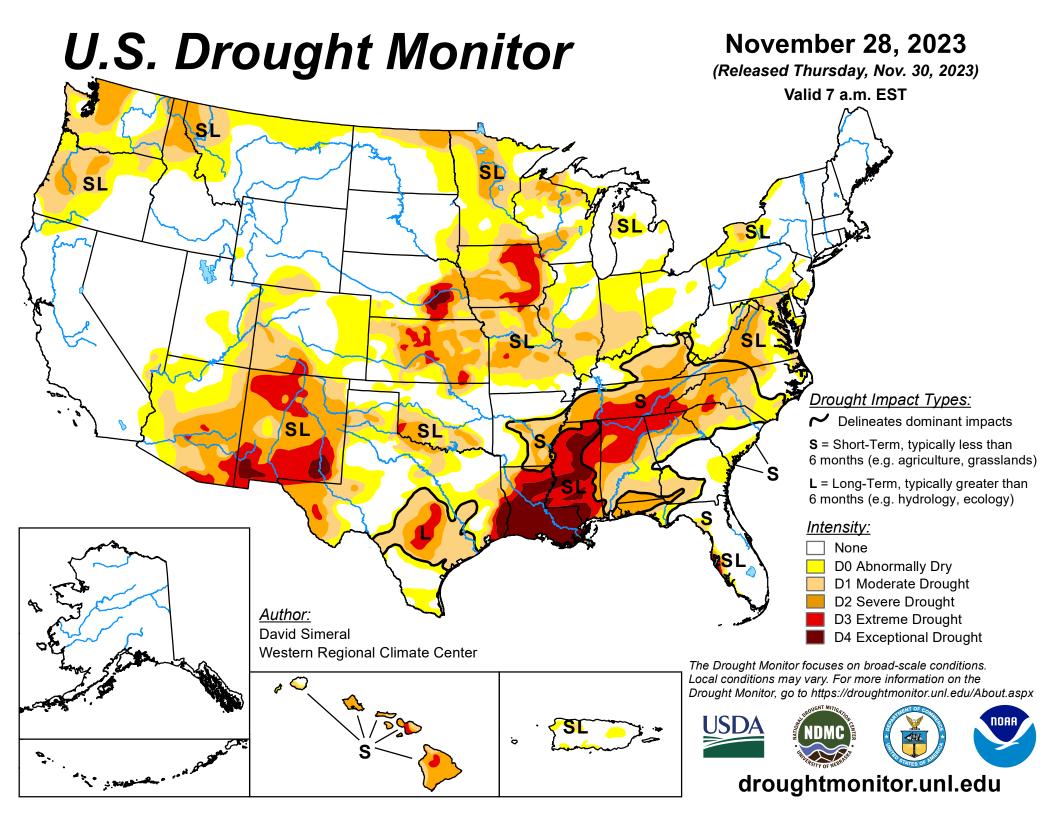
Data for other wells may be downloaded from:

USGS - NWIS Web Information for USA

^{[2] -} Not Available as of 2023-12-04

^{[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.



U.S. Drought Monitor Maryland

November 28, 2023

(Released Thursday, Nov. 30, 2023)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	10.43	89.57	43.44	3.26	0.00	0.00
Last Week 11-21-2023	5.89	94.11	52.15	3.22	0.00	0.00
3 Months Ago 08-29-2023	73.72	26.28	15.78	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 11-29-2022	92.80	7.20	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

Author:

David Simeral Western Regional Climate Center









droughtmonitor.unl.edu