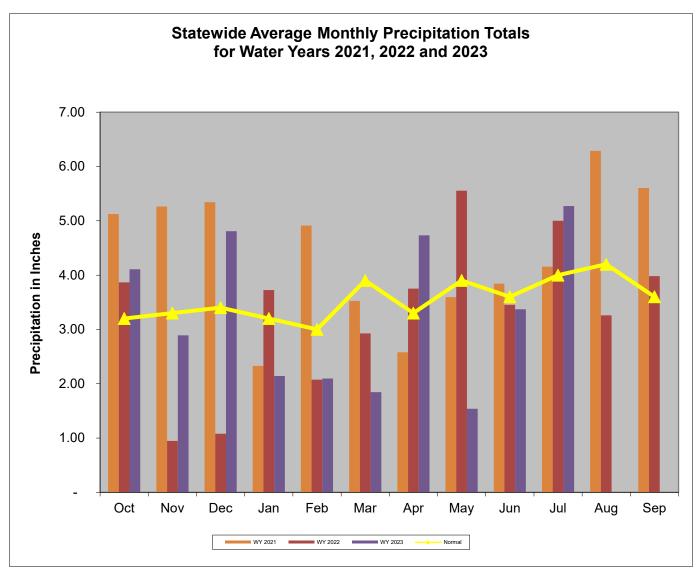
Overall Hydrologic Status for Maryland

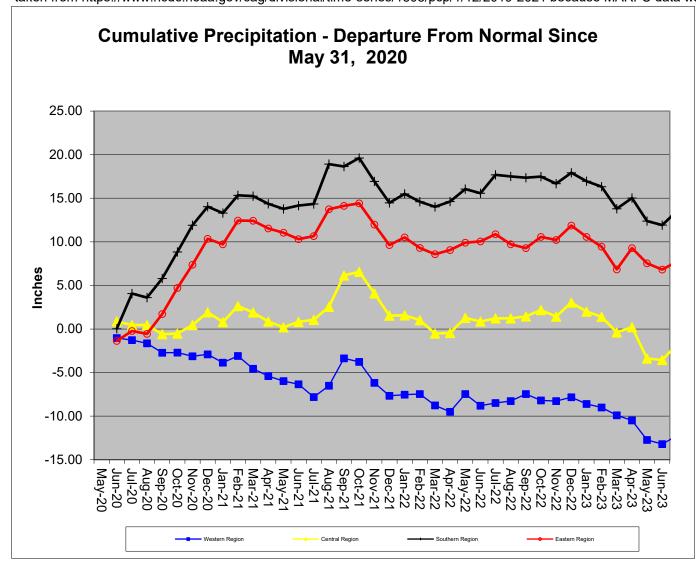
Summary of Hydrologic Indicators for 15-July-2023										
Rainfall Stream Flow Groundwater Reservoirs Overall Status										
Western	Normal	Normal	Warning	Normal	Watch [1]					
Central	Normal	Watch	Warning	Normal	Watch					
Eastern	Normal	Normal	Normal		Normal					
Southern	Normal		Normal		Normal					

Notes: Some groundwater gages and reservoir data not available for interim evaluations. [1] This region continues to remain in Watch because the groundwater indicator continues to be below normal.

Precipitation Indicators for Maryland Drought Regions										
July 15, 2023										
	WY to Date Since Jan 31, 2023 Since July 31, 2022									
	Percent of		Percent of		Percent of					
Regions	Normal	Condition	Normal Condition		Normal	Condition				
Western	86%	Normal	84%	Normal	91%	Normal				
Central	91%	Normal	83%	Normal	93%	Normal				
Eastern	96%	Normal	87%	Normal	93%	Normal				
Southern	89%	Normal	85%	Normal	90%	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 15 July 2023 (WY 2023)

Normal Rainfall, Actual Rainfall and Rainfall Departure from Normal in Inches																	
					Normal	Rainfall,	Actual	Rainfall a	and Ra	ainfall Dep	arture	from No	ormal in	Inches			
		WY ¹ To Date		11.5 Months			2.5 Months			5.5 Months							
		(Since September 30, 2022)		(Since July 31, 2022)			(Since April 30, 2023)			23)	(Since January 31, 2023)						
	COUNTY	Normal A	Actual I	Depart	%	Normal	Actual	Depart	%	Normal A	Actual	Depart	%	Normal	Actual	Depart	%
Z _	ALLEGANY	33.4	30.1	-3.3	90%	40.1	38.2	-1.9	95%	11.5	10.4	-1.1	90%	20.9	17.9	-3.0	86%
O ER	GARRETT	38.6	34.6	-4.0	90%	46.0	44.0	-2.0	96%	14.0	13.8	-0.2	99%	25.2	23.7	-1.5	94%
WESTERN REGION	WASHINGTON	33.7	26.7	-7.0	79%	40.7	33.4	-7.3	82%	11.4	7.5	-3.9	66%	20.8	14.4	-6.4	69%
₩ W	Regional Average	35.2	30.5	-4.8	86%	42.3	38.5	-3.7	91%	12.3	10.6	-1.7	86%	22.3	18.7	-3.6	84%
	BALTIMORE COUNT	37.4	34.8	-2.6	93%	45.1	43.7	-1.4	97%	12.1	10.9	-1.2	90%	22.8	19.7	-3.1	86%
Ō	CARROLL	35.3	28.9	-6.4	82%	43.0	35.6	-7.4	83%	11.2	6.6	-4.6	59%	21.5	15.7	-5.8	73%
CENTRAL REGION	CECIL	36.5	39.2	2.7	107%	44.1	46.6	2.5	106%		13.9	1.8	115%	22.6	23.1	0.5	102%
٣.	FREDERICK	35.4	28.7	-6.7	81%	42.7	34.9	-7.8	82%	11.9	7.1	-4.8	60%	21.9	15.7	-6.2	72%
I	HARFORD	37.5	39.3	1.8	105%	45.6	49.2	3.6	108%	12.3	13.4	1.1	109%	22.8	21.6	-1.2	95%
Ë	HOWARD	37.0	31.0	-6.0	84%	44.4	38.5	-5.9	87%	12.3	9.1	-3.2	74%	22.9	17.4	-5.5	76%
戶	MONTGOMERY	35.5	30.5	-5.0	86%	43.0	38.7	-4.3	90%	12.1	9.4	-2.7	78%	22.1	17.3	-4.8	78%
0	Regional Average	36.4	33.2	-3.2	91%	44.0	41.0	-3.0	93%	12.0	10.1	-1.9	84%	22.4	18.6	-3.7	83%
7	ANNE ARUNDEL	34.8	31.7	-3.1	91%	42.1	38.8	-3.3	92%		10.6	-1.2	90%	21.9	18.5	-3.4	84%
K Z	CALVERT	36.6	33.5	-3.1	92%	44.2	40.4	-3.8	91%	12.3	11.3	-1.0	92%	22.7	20.0	-2.7	88%
불 읊	CHARLES	35.2	30.8	-4.4	88%	42.7	37.4	-5.3	88%	11.8	9.9	-1.9	84%	21.7	17.9	-3.8	82%
SOUTHERN REGION	PRINCE GEORGES	35.0	30.0	-5.0	86%	42.2	37.6	-4.6	89%		10.5	-1.3	89%	21.7	18.0	-3.7	83%
Sor	ST MARYS	35.9	32.6	-3.3	91%	43.7	40.2	-3.5	92%	11.7	9.9	-1.8	85%	22.1	18.8	-3.3	85%
	Regional Average	35.5	31.7	-3.8	89%	43.0	38.9	-4.1	90%		10.4	-1.4	88%	22.0	18.6	-3.4	85%
_	CAROLINE	35.3	35.7	0.4	101%	43.1	42.4	-0.7	98%		10.7	-0.9	92%	21.9	20.8	-1.1	95%
6	DORCHESTER	35.7	33.9	-1.8	95%	43.3	40.0	-3.3	92%		9.4	-2.5	79%	22.5	18.7	-3.8	83%
<u></u>	KENT	35.6	34.7	-0.9	97%	43.3	41.1	-2.2	95%	11.8	10.4	-1.4	88%	22.1	20.1	-2.0	91%
器	QUEEN ANNES	35.4	34.4	-1.0	97%	43.0	40.4	-2.6	94%	11.8	9.5	-2.3	81%	22.1	19.6	-2.5	89%
Z Z	SOMERSET	34.0	34.3	0.3	101%	42.1	40.5	-1.6	96%		10.2	-0.2	98%	21.1	18.8	-2.3	89%
臣	TALBOT	35.8	32.9	-2.9	92%	43.5	39.2	-4.3	90%	11.8	9.3	-2.5	79%	22.2	18.6	-3.6	84%
EASTERN REGION	WICOMICO	35.4	33.1	-2.3	94%	43.5	39.8	-3.7	91%	11.2	10.4	-0.8	93%	22.1	19.0	-3.1	86%
ЭÙ	WORCESTER Regional Average	35.5 35.3	31.5 33.8	-4.0 -1.5	89% 96%	43.8 43.2	37.2 40.1	-6.6 -3.1	85% 93%	10.8 11.4	9.2	-1.6 -1.5	85% 87%	21.6 22.0	17.5 19.1	-4.1 -2.8	81% 87%
NDEE	ı ü																
	NT CITY OF BALTIMORE	37.1	34.4	-2.7	93%	44.8	43.3	-1.5	97%	12.1	10.9	-1.2	90%	22.8	19.7	-3.1	86%
State	wide Average	35.7	32.8	-2.9	92%	43.3	40.0	-3.3	92%	11.8	10.2	-1.6	86%	22.2	18.9	-3.3	85%

WY¹ - USGS Water Year, which begins October 1

Stream Flow Status Based on Thirty Day Average for 2023 July 15										
		Status Based								
			30 Day Average							
Region	Stream Gage Location	Notes	(cfs)	Percentage	Status					
Western	Youghiogheny (near Oakland)		98	40%-45%	Normal					
Western	Savage River (near Barton)		14.9	35%-40%	Normal					
Western	Wills Creek (near Cumberland)		79.4	30%-35%	Normal					
Western	Marsh Run (at Grimes)		5.8	20%-25%	Watch					
Central	Catoctin Creek (near Middletown)		18.8	20%-25%	Watch					
Central	Monocacy (Jug Bridge near Frederick)		184	10%-15%	Watch					
Central	Patuxent (near Unity)		12.1	10%-15%	Watch					
Central	Deer Cr (at Rocks)		84.1	30%-35%	Normal					
Eastern	Choptank (near Greensboro)		56.8	55%-60%	Normal					
Eastern	Nassawango Creek (near Snow Hill)		10.9	50%-55%	Normal					
	Susquehanna (at Marietta)		17,810	45%-50%	Normal					
	Potomac (at Little Falls)(Adjusted)		4,024	20%-25%	Watch					

Notes:

Ground Water Status for 15 July 2023								
Region	USGS Well ID	Well Level[1]	Status					
	GA Bc 1	14.81 [3]	Normal					
Western	AL Ah 1	4.57 [2]	Normal	Warning				
VVCStCIII	WA Be 2	34.15 [2]	Warning	vvairing				
	WA Bk 25	48.93 [3]	Emergency					
	BA Dc 444	40.62 [3]						
	BA Ea 18	24.83 [2]						
Central	HA Bd 31	12.34 [2]	Warning	Warning				
	HA Ca 23	7.84 [2]	_					
	MO Cc 14	36.23 [2]	Warning					
	QA Cg 69	4.36 [2]						
Eastern	WI Cg 20	5.75 [2]	Normal	Normal				
Lasiciii	MC51-01	13.17 [3]	Normal	Nomai				
	SO Cf 2	2.96 [3]	Normal					
	CH Bg 12 (unconfined)	6.29	Normal					
	AA Cc 40 (confined)	NA[2]	Unknown					
Southern	CA Fd 54 (confined)	240.25	On Trend[4]	Normal				
Southern	CH Dd 33 (confined)	NA[2]	Unknown	Normai				
1	PG De 21 (confined)	NA[2]	Unknown					
[4] NA	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/

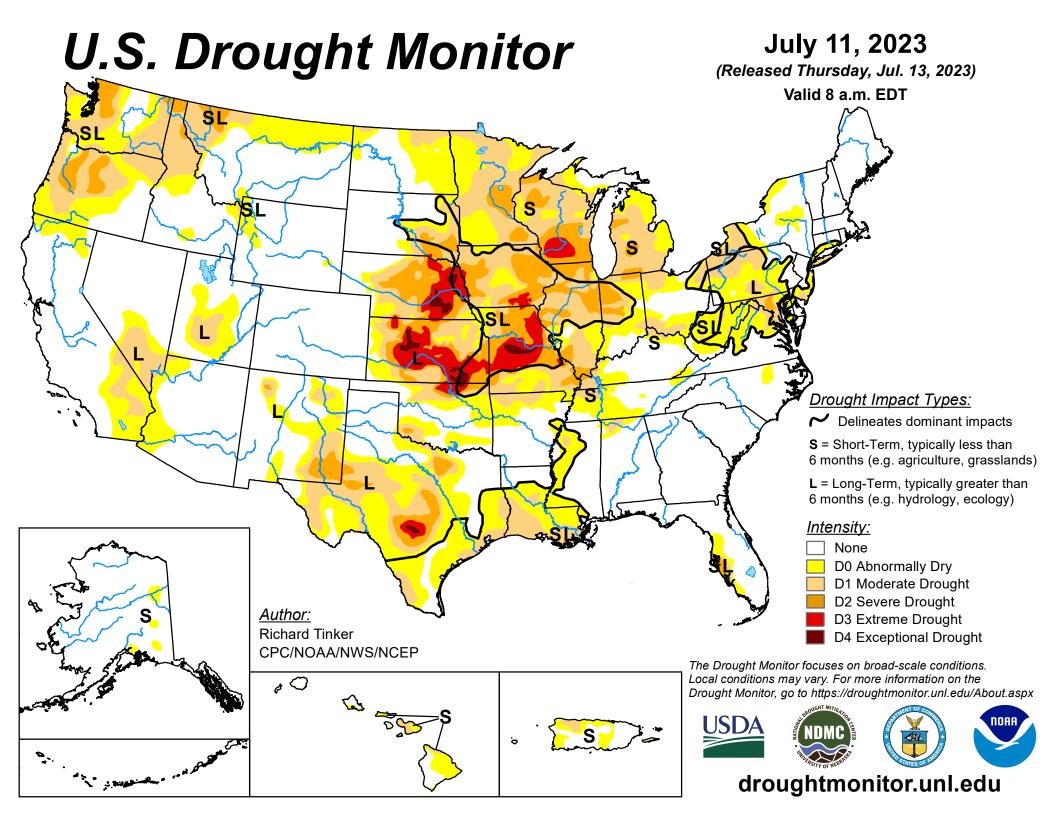
Data for other wells may be downloaded from:

USGS - NWIS Web Information for USA

^{[2] -} Not Available as of 2023-7-17

^{[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

July 11, 2023

(Released Thursday, Jul. 13, 2023)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	15.35	84.65	44.05	12.24	0.00	0.00
Last Week 07-04-2023	15.41	84.59	54.22	17.49	0.00	0.00
3 Months Ago 04-11-2023	10.94	89.06	44.22	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 09-27-2022	65.82	34.18	6.75	0.00	0.00	0.00
One Year Ago 07-12-2022	94.45	5.55	0.00	0.00	0.00	0.00

Intensity:

None
D2 Severe Drought
D0 Abnormally Dry
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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droughtmonitor.unl.edu