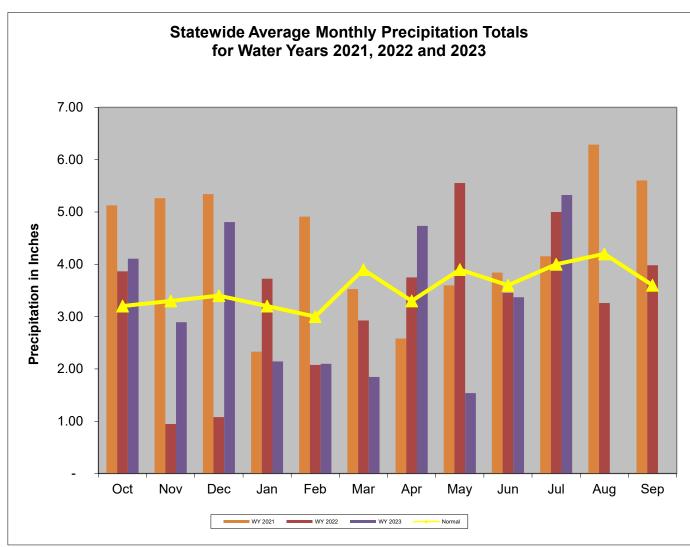
## **Overall Hydrologic Status for Maryland**

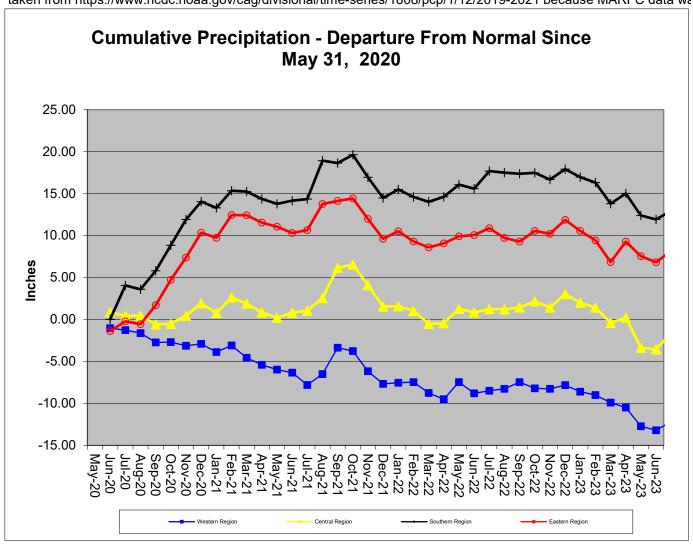
Summary of Hydrologic Indicators for 09-July-2023									
Rainfall Stream Flow Groundwater Reservoirs Overall Status									
Western	Norma;	Watch	Warning	Normal	Watch				
Central	Normal	Watch	Warning	Normal	Watch				
Eastern	Normal	Normal	Normal		Normal				
Southern	Normal		Normal		Normal				

Notes: Some groundwater gages and reservoir data not available for interim evaluations.

Precipitation Indicators for Maryland Drought Regions											
July 9, 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	87%	Normal	84%	Normal	91%	Normal					
Central	92%	Normal	84%	Normal	93%	Normal					
Eastern	97%	Normal	89%	Normal	94%	Normal					
Southern	88%	Normal	82%	Normal	89%	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 30 June 2023 (WY 2023)

as of 30 June 2023 (WY 2023)																	
Normal Rainfall, Actual Rainfall and Rainfall Departure from Normal in Inches																	
		WY <sup>1</sup> To Date			11.25 Months			2.25 Months			5.25 Months						
		(Since September 30, 2022)		(Since July 31, 2022)			(Since April 30, 2023)			(Since January 31, 2023)							
	COUNTY	Normal	Actual	Depart	%	Normal	Actual	Depart	%	Normal A	Actual	Depart	%	Normal	Actual	Depart	%
Z _	ALLEGANY	33.5	29.7	-3.8	89%	40.2	37.8	-2.4	94%	11.6	10.0	-1.6	86%	21.0	17.5	-3.5	83%
WESTERN REGION	GARRETT	38.6	35.2	-3.4	91%	46.0	44.6	-1.4	97%	14.0	14.4	0.4	103%	25.2	24.3	-0.9	96%
SST	WASHINGTON	33.7	26.8	-6.9	80%	40.7	33.5	-7.2	82%	11.4	7.6	-3.8	67%	20.8	14.5	-6.3	70%
₩ ₽	Regional Average	35.3	30.6	-4.7	87%		38.6	-3.7	91%		10.7	-1.7	86%	22.3	18.8	-3.6	84%
	BALTIMORE COUNT	37.4	35.0	-2.4	94%	45.1	43.9	-1.2	97%	12.1	11.1	-1.0	92%	22.8	19.9	-2.9	87%
<u>o</u>	CARROLL	35.9	28.9	-7.0	81%	43.6	35.6	-8.0	82%	11.8	6.6	-5.2	56%	22.1	15.7	-6.4	71%
Ð	CECIL	36.4	40.7	4.3	112%	44.0	48.1	4.1	109%	12.0	15.4	3.4	128%	22.5	24.6	2.1	109%
2	FREDERICK	35.5	28.7	-6.8	81%	42.8	34.9	-7.9	82%	12.0	7.1	-4.9	59%	22.0	15.7	-6.3	71%
₹	HARFORD	37.4	39.7	2.3	106%	45.5	49.6	4.1	109%	12.2	13.8	1.6	113%	22.7	22.0	-0.7	97%
CENTRAL REGION	HOWARD	37.0	30.8	-6.2	83%	44.4	38.3	-6.1	86%	12.3	8.9	-3.4	72%	22.9	17.2	-5.7	75%
	MONTGOMERY	35.6	29.8	-5.8	84%		38.0	-5.1	88%		8.7	-3.5	71%	22.2	16.6	-5.6	75%
	Regional Average	36.5	33.4	-3.1	92%	44.1	41.2	-2.9	93%	12.1	10.2	-1.9	85%	22.5	18.8	-3.6	84%
7	ANNE ARUNDEL	34.8	31.8	-3.0	91%		38.9	-3.2	92%		10.7	-1.1	91%	21.9	18.6	-3.3	85%
SOUTHERN REGION	CALVERT	36.6	33.0	-3.6	90%		39.9	-4.3	90%		10.8	-1.5	88%	22.7	19.5	-3.2	86%
뿔 읋	CHARLES	35.2	29.5	-5.7	84%		36.1	-6.6	85%		8.6	-3.2	73%	21.7	16.6	-5.1	76%
UT EG	PRINCE GEORGES	34.9	29.4	-5.5	84%		37.0	-5.1	88%		9.9	-1.8	85%	21.6	17.4	-4.2	81%
ő R	ST MARYS	35.8	31.6	-4.2	88%		39.2	-4.4	90%		8.9	-2.7	77%	22.0	17.8	-4.2	81%
0,	Regional Average	35.5	31.1	-4.4	88%	42.9	38.2	-4.7	89%		9.8	-2.1	83%	22.0	18.0	-4.0	82%
_	CAROLINE	35.1	35.9	8.0	102%		42.6	-0.3	99%		10.9	-0.5	96%		21.0	-0.7	97%
NO	DORCHESTER	35.8	34.1	-1.7	95%		40.2	-3.2	93%		9.6	-2.4	80%	22.6	18.9	-3.7	84%
5	KENT	35.5	35.7	0.2	101%		42.1	-1.1	97%		11.4	-0.3	97%	22.0	21.1	-0.9	96%
8	QUEEN ANNES	35.2	34.7	-0.5	99%		40.7	-2.1	95%		9.8	-1.8	84%	21.9	19.9	-2.0	91%
Z	SOMERSET	34.2	34.4	0.2	101%		40.6	-1.7	96%		10.3	-0.3	97%	21.3	18.9	-2.4	89%
Ä	TALBOT	35.9	33.3	-2.6	93%		39.6	-4.0	91%		9.7	-2.2	82%	22.3	19.0	-3.3	85%
EASTERN REGION	WICOMICO	35.3	33.5	-1.8	95%		40.2	-3.2	93%		10.8	-0.3	97%	22.0	19.4	-2.6	88%
ЕА	WORCESTER	35.3	31.8	-3.5	90%		37.5	-6.1	86%		9.5	-1.1	90%	21.4	17.8	-3.6	83%
	Regional Average	35.3	34.2	-1.1	97%		40.4	-2.7	94%		10.3	-1.1	90%	21.9	19.5	-2.4	89%
	NT CITY OF BALTIMORE	37.1	34.6	-2.5	93%		43.5	-1.3	97%		11.1	-1.0	92%		19.9	-2.9	87%
	wide Average	35.7	32.9	-2.9	92%	43.3	40.1	-3.2	93%	11.8	10.2	-1.6	87%	22.2	18.9	-3.3	85%
WW1 LICCO	: Water Veer which hea	O -4 - I	4														

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

Stream Flow Status Based on Thirty Day Average for 2023 July 9										
			Status Based on 30 Day Average							
			30 Day Average							
Region	Stream Gage Location	Notes	(cfs)	Percentage	Status					
Western	Youghiogheny (near Oakland)		86	25%-30%	Normal					
Western	Savage River (near Barton)		14.5	30%-35%	Normal					
Western	Wills Creek (near Cumberland)		72	10%-15%	Watch					
Western	Marsh Run (at Grimes)		5.8	15%-20%	Watch					
Central	Catoctin Creek (near Middletown)		19.2	20%-25%	Watch					
Central	Monocacy (Jug Bridge near Frederick)		185	5%-10%	Warning					
Central	Patuxent (near Unity)		12.3	10%-15%	Watch					
Central	Deer Cr (at Rocks)		78.4	20%-25%	Watch					
Eastern	Choptank (near Greensboro)		32.0	30%-35%	Normal					
Eastern	Nassawango Creek (near Snow Hill)		10.4	45%-50%	Normal					
	Susquehanna (at Marietta)		14,336	30%-35%	Normal					
	Potomac (at Little Falls)(Adjusted)		3,787	10%-15%	Watch					

Notes:

Ground Water Status for 9 July 2023								
Region	USGS Well ID	Well Level[1]	Status					
	GA Bc 1	14.64 [3]	Normal					
Western	AL Ah 1	4.57 [2]	Normal	Warning				
Westelli	WA Be 2	34.15 [2]	Warning	vvairing				
	WA Bk 25	49.03 [3]	Emergency					
	BA Dc 444	40.62 [3]	Warning					
	BA Ea 18	24.83 [2]						
Central	HA Bd 31	12.34 [2]	Warning	Warning				
	HA Ca 23	7.84 [2]	Warning					
	MO Cc 14	36.23 [2]	Warning					
	QA Cg 69	4.36 [2]	Normal					
Eastern	WI Cg 20	5.75 [2]	Normal	Normal				
Lastern	MC51-01	13.27 [3]	Normal	Normai				
	SO Cf 2	3.08 [3]	Normal					
	CH Bg 12 (unconfined)	5.95	Normal					
	AA Cc 40 (confined)	NA[2]	Unknown					
Southern	CA Fd 54 (confined)	240.25	On Trend[4]	Normal				
	CH Dd 33 (confined)	NA[2]	Unknown	Horman				
	PG De 21 (confined)	NA[2]	Unknown					
F41 B4	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/

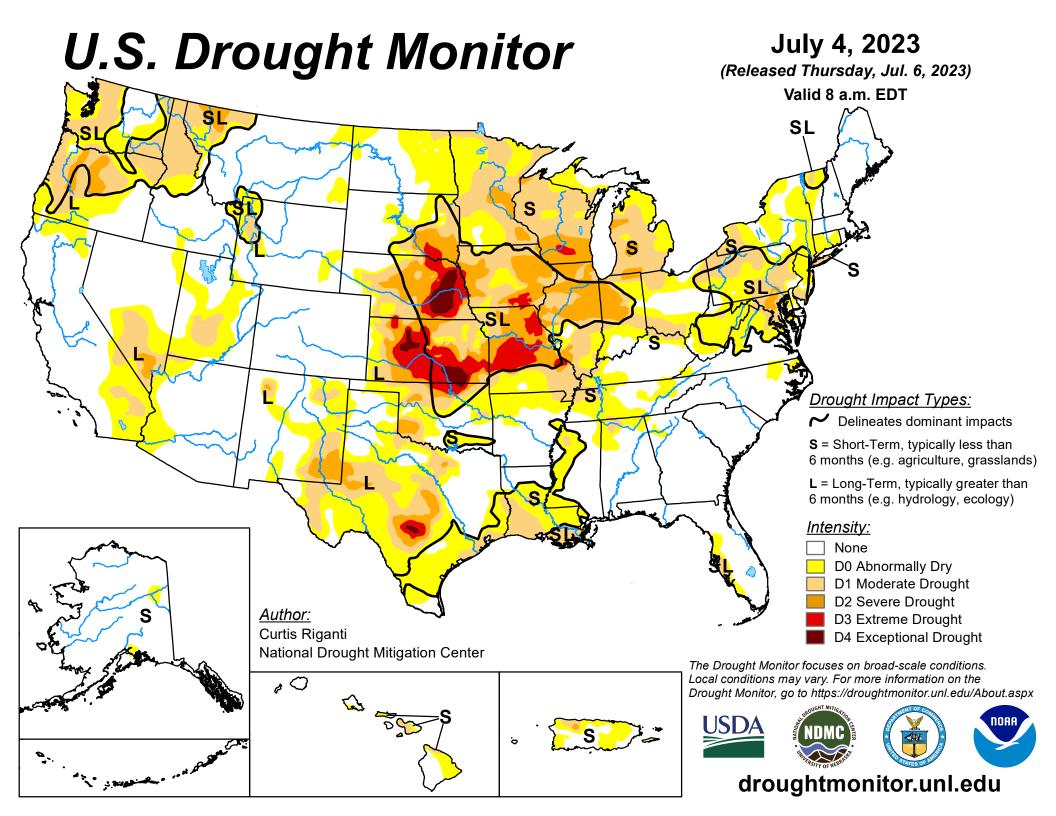
Data for other wells may be downloaded from:

USGS - NWIS Web Information for USA

<sup>[2] -</sup> Not Available as of 2023-7-11

<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

### July 4, 2023

(Released Thursday, Jul. 6, 2023)
Valid 8 a.m. EDT

#### Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	15.41	84.59	54.22	17.49	0.00	0.00
Last Week 06-27-2023	6.78	93.22	60.18	22.54	0.00	0.00
3 Months Ago 04-04-2023	16.43	83.57	30.96	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 07-05-2022	94.10	5.90	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

#### Author:

Curtis Riganti National Drought Mitigation Center









droughtmonitor.unl.edu