

Overall Hydrologic Status for Maryland

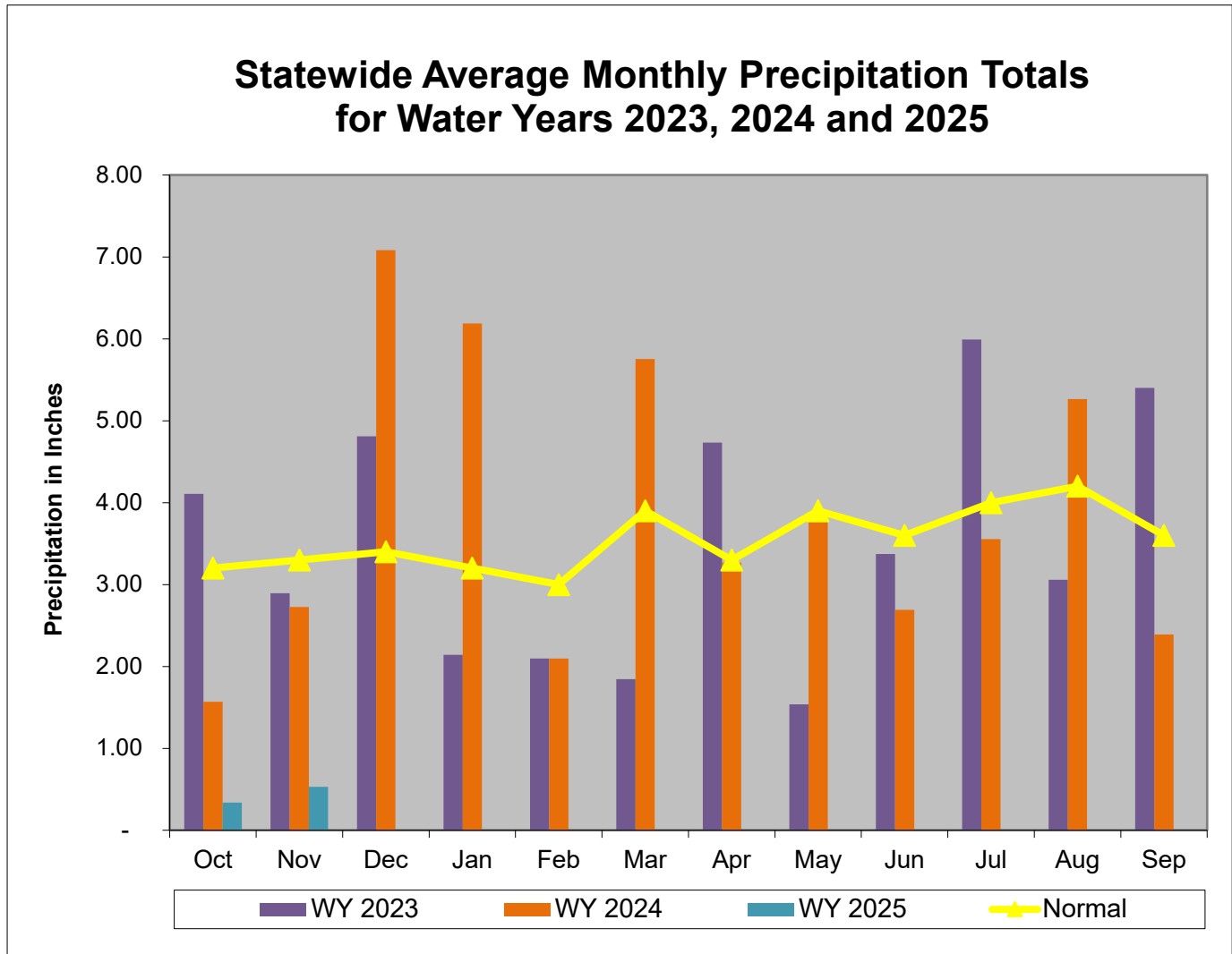
Summary of Hydrologic Indicators for 12 November 2024					
	Rainfall	Stream Flow	Groundwater	Reservoirs	Overall Status
Western	Emergency	Watch	Watch	Normal	Watch
Central	Emergency	Watch	Watch	Normal	Watch
Eastern	Emergency	Emergency	Warning		Warning
Southern	Emergency		Watch		Warning

Notes: WSSC has extended their drought Watch as of November 7th:

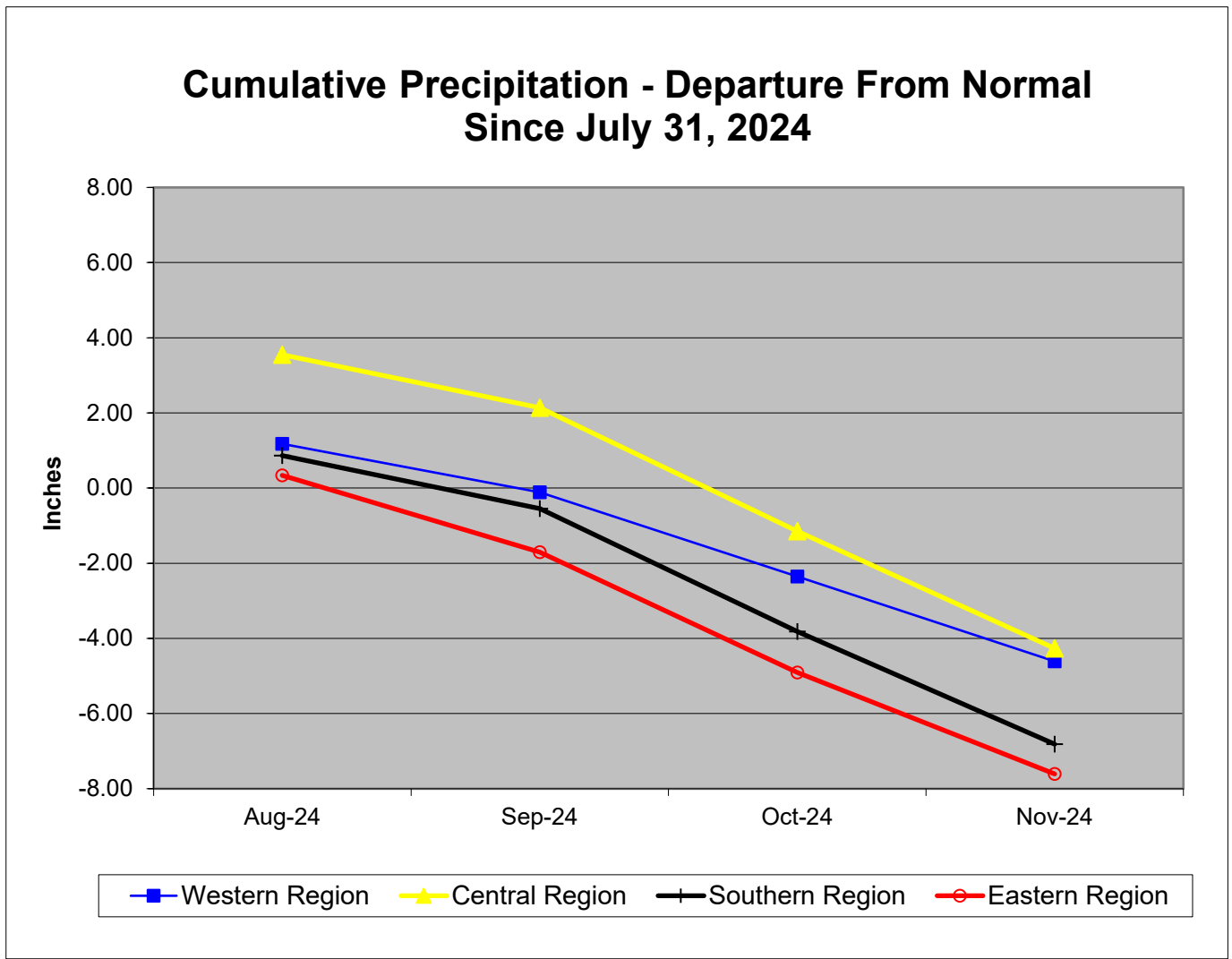
<https://www.mwcog.org/newsroom/2024/11/07/officials-extend-drought-watch-for-dc-region-drought/>

Precipitation Indicators for Maryland Drought Regions						
November 12, 2024						
	Since August 31, 2024		Since May 31, 2024		Since Nov 30, 2023	
Regions	Percent of Normal	Condition	Percent of Normal	Condition	Percent of Normal	Condition
Western	41%	Emergency	68%	Warning	91%	Normal
Central	32%	Emergency	72%	Watch	100%	Normal
Eastern	25%	Emergency	66%	Warning	103%	Normal
Southern	29%	Emergency	55%	Emergency	93%	Normal

WY or Water Year begins on October 1.



Data obtained from: [http://www.weather.gov/marfc/Precipitation Departures](http://www.weather.gov/marfc/Precipitation_Departures)



**Precipitation in Maryland Counties
as of 12 November 2024 (WY 2025)**

		Normal Rainfall, Actual Rainfall and Rainfall Departure from Normal in Inches															
		WY ¹ To Date (Since September 30, 2024)				11.25 Months (Since November 30, 2023)				2.25 Months (Since August 30, 2024)				5.25 Months (Since May 31, 2024)			
REGION	COUNTY	Normal	Actual	Depart	%	Normal	Actual	Depart	%	Normal	Actual	Depart	%	Normal	Actual	Depart	%
	WESTERN REGION	ALLEGANY	5.7	1.5	-4.2	26%	39.0	36.2	-2.8	93%	9.2	4.7	-4.6	51%	19.7	13.5	-6.2
GARRETT		6.2	2.5	-3.6	41%	46.4	42.4	-4.0	91%	9.8	5.1	-4.8	52%	23.0	14.3	-8.7	62%
WASHINGTON		6.4	0.7	-5.6	11%	41.4	36.2	-5.1	88%	10.2	2.1	-8.0	21%	22.4	16.3	-6.1	73%
Regional Average		6.1	1.6	-4.5	26%	42.2	38.3	-4.0	91%	9.7	4.0	-5.8	41%	21.7	14.7	-7.0	68%
CENTRAL REGION	BALTIMORE COUNTY	7.7	1.0	-6.7	12%	45.6	46.1	0.5	101%	12.1	4.0	-8.1	33%	23.2	16.5	-6.7	71%
	CARROLL	7.1	0.9	-6.2	13%	43.6	43.6	0.0	100%	11.4	4.2	-7.2	37%	22.5	17.4	-5.1	77%
	CECIL	7.1	0.6	-6.5	9%	45.0	47.1	2.1	105%	11.5	1.6	-9.9	14%	23.4	15.5	-7.9	66%
	FREDERICK	6.8	0.7	-6.1	11%	42.3	41.8	-0.5	99%	10.9	3.9	-7.0	36%	21.6	16.2	-5.4	75%
	HARFORD	7.6	0.8	-6.8	10%	46.0	45.2	-0.8	98%	12.0	3.4	-8.7	28%	24.1	15.3	-8.8	63%
	HOWARD	7.3	0.8	-6.4	11%	44.5	44.5	0.1	100%	11.4	4.3	-7.1	38%	22.6	17.2	-5.3	76%
	MONTGOMERY	6.9	0.7	-6.2	11%	42.7	41.7	-1.1	98%	11.1	4.2	-6.8	38%	22.2	16.4	-5.8	74%
	Regional Average	7.2	0.8	-6.4	11%	44.2	44.3	0.0	100%	11.5	3.7	-7.8	32%	22.8	16.4	-6.4	72%
SOUTHERN REGION	ANNE ARUNDEL	6.9	0.7	-6.2	10%	42.9	41.8	-1.1	98%	10.8	3.2	-7.6	29%	21.9	13.7	-8.2	62%
	CALVERT	7.0	0.7	-6.3	10%	44.2	39.4	-4.8	89%	10.9	3.1	-7.8	29%	22.7	11.3	-11.4	50%
	CHARLES	6.9	0.6	-6.3	9%	42.6	39.0	-3.6	92%	10.8	2.7	-8.1	25%	22.3	11.0	-11.3	49%
	PRINCE GEORGES	7.1	0.7	-6.4	10%	42.6	39.1	-3.5	92%	10.9	3.6	-7.3	33%	22.1	12.8	-9.3	58%
	ST MARYS	7.0	0.9	-6.1	13%	43.9	41.3	-2.6	94%	10.9	3.4	-7.6	31%	22.7	13.3	-9.5	58%
	Regional Average	7.0	0.7	-6.3	10%	43.2	40.1	-3.1	93%	10.9	3.2	-7.7	29%	22.3	12.4	-10.0	55%
EASTERN REGION	CAROLINE	6.8	0.6	-6.2	9%	43.4	45.2	1.8	104%	10.6	2.6	-8.0	24%	22.3	14.4	-7.9	65%
	DORCHESTER	6.7	0.7	-6.0	11%	44.1	43.9	-0.2	99%	10.3	2.5	-7.8	25%	22.6	14.6	-8.1	64%
	KENT	6.9	0.8	-6.1	11%	43.6	43.0	-0.6	99%	11.1	2.0	-9.2	18%	22.3	13.3	-9.0	60%
	QUEEN ANNES	6.8	0.7	-6.1	10%	43.3	43.3	0.0	100%	10.9	2.1	-8.8	19%	22.1	13.6	-8.6	61%
	SOMERSET	6.3	1.0	-5.4	15%	43.3	47.9	4.7	111%	10.1	2.8	-7.4	27%	22.4	16.9	-5.5	76%
	TALBOT	6.9	0.7	-6.2	10%	44.1	44.5	0.4	101%	10.7	3.3	-7.5	30%	22.6	14.9	-7.7	66%
	WICOMICO	6.2	0.9	-5.3	14%	42.3	48.0	5.7	113%	10.0	3.0	-7.1	30%	20.5	14.7	-5.9	71%
	WORCESTER	6.8	0.7	-6.0	11%	44.4	42.8	-1.6	97%	10.7	2.7	-7.9	25%	22.9	14.9	-8.0	65%
Regional Average	6.7	0.8	-5.9	11%	43.6	44.8	1.3	103%	10.5	2.6	-7.9	25%	22.2	14.7	-7.6	66%	
INDEPENDENT CITY OF BALTIMORE		7.7	1.0	-6.7	12%	45.6	46.1	0.5	101%	12.1	4.0	-8.1	33%	23.2	16.5	-6.7	71%
Statewide Average		6.9	0.9	-6.0	13%	43.6	42.9	-0.7	98%	10.8	3.3	-7.6	30%	22.4	14.8	-7.6	66%

WY¹ - USGS Water Year, which begins October 1

Stream Flow Status Based on Thirty Day Average for 2024 November 12

Region	Stream Gage Location	Notes	Status Based on 30 Day Average		
			30 Day Average (cfs)	Percentage	Status
Western	Youghiogheny (near Oakland)		20.4	5%-10%	Warning
Western	Savage River (near Barton)		4.0	5%-10%	Warning
Western	Wills Creek (near Cumberland)		45	30%-35%	Normal
Western	Marsh Run (at Grimes)		5.0	40%-45%	Normal
Central	Catoctin Creek (near Middletown)		5.9	5%-10%	Normal
Central	Monocacy (Jug Bridge near Frederick)		141	10%-15%	Watch
Central	Patuxent (near Unity)		12.7	20%-25%	Watch
Central	Deer Cr (at Rocks)		41.4	5%-10%	Warning
Eastern	Choptank (near Greensboro)		9.6	0%-5%	Emergency
Eastern	Nassawango Creek (near Snow Hill)		1.4	0%-5%	Emergency
	Susquehanna (at Marietta)		6,748	10%-15%	Watch
	Potomac (at Little Falls)(Adjusted)		2,891	30%-35%	Normal

Notes:

Ground Water Status for 12 November 2024			
Region	USGS Well ID	Well Level[1]	Status
Western	GA Bc 1	16.09 [3]	Watch
	AL Ah 1	4.99 [2]	Normal
	WA Be 2	34.3 [2]	Normal
	WA Bk 25	50.04 [3]	Emergency
	WA Ci 82	52.56 [2]	Normal
Central	BA Dc 444	41.94 [3]	Watch
	BA Ea 18	23.76 [2]	Normal
	CL Ad 47	3.83 [3]	Emergency
	Fr Bd 96	27.33 [2]	Normal
	Fr Df 35	57.74 [2]	Normal
	HA Bd 31	15.55 [2]	Normal
	HA Ca 23	8.68 [2]	Warning
	MO Cc 14	37.22 [2]	Normal
Eastern	QA Cg 69	5.64 [2]	Watch
	WI Cg 20	9.07 [2]	Emergency
	MC51-01	14.97 [3]	Warning
	SO Cf 2	6.66 [3]	Emergency
Southern	CH Bg 12 (unconfined)	9.50	Emergency
	CA Fd 54 (confined)	243.04	On Trend[4]

[1] - Measurement of water level as feet below land surface
[2] - Not Available as of 2024-11-13
[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:

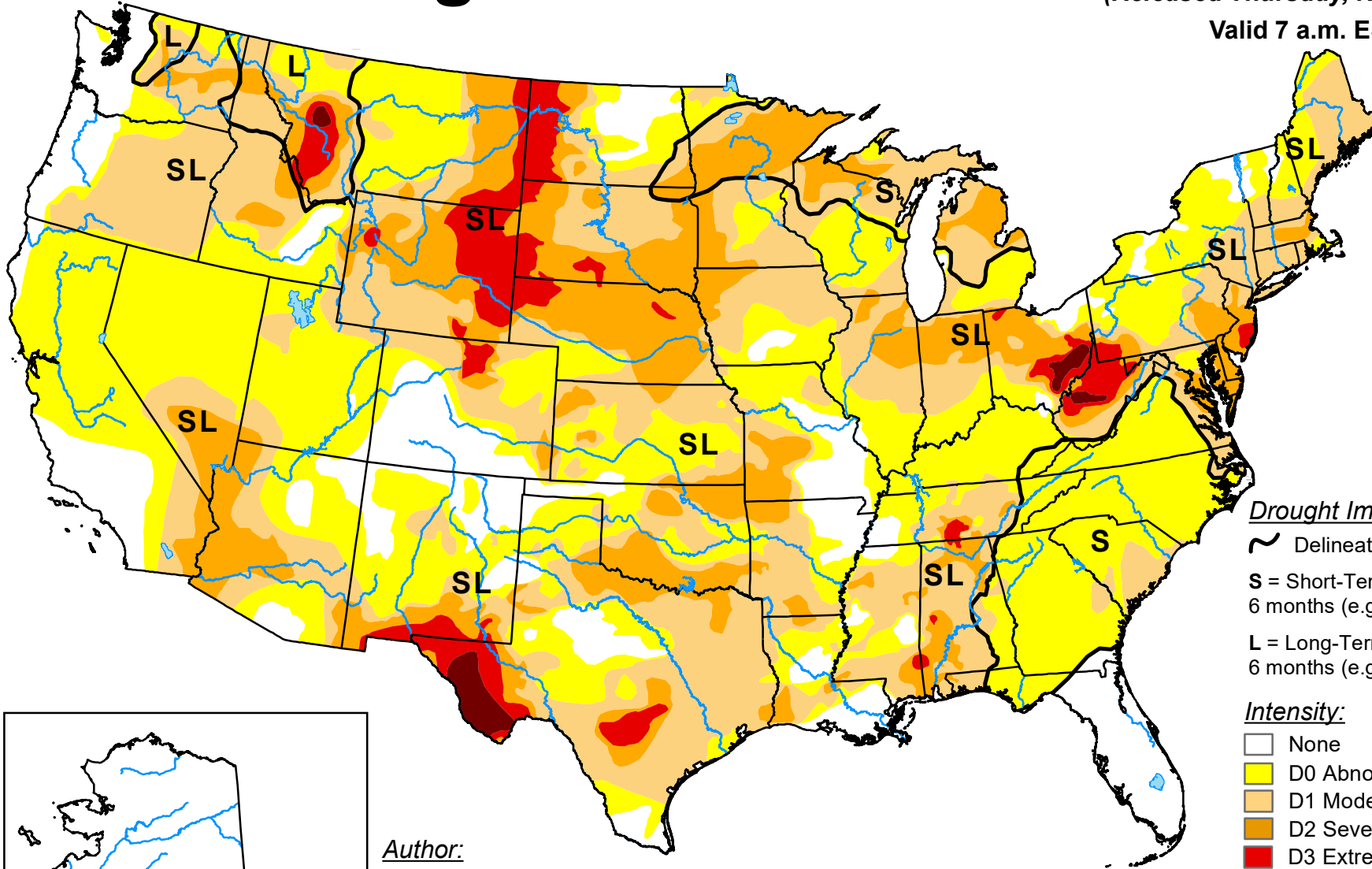
<http://md.water.usgs.gov/groundwater/>

Data for other wells may be downloaded from:

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

U.S. Drought Monitor

November 5, 2024
(Released Thursday, Nov. 7, 2024)
Valid 7 a.m. EST

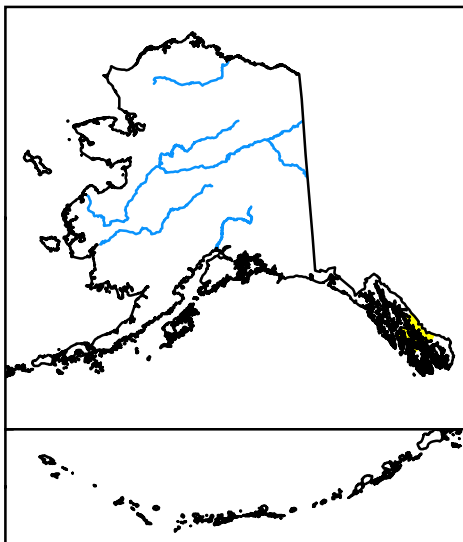


Drought Impact Types:

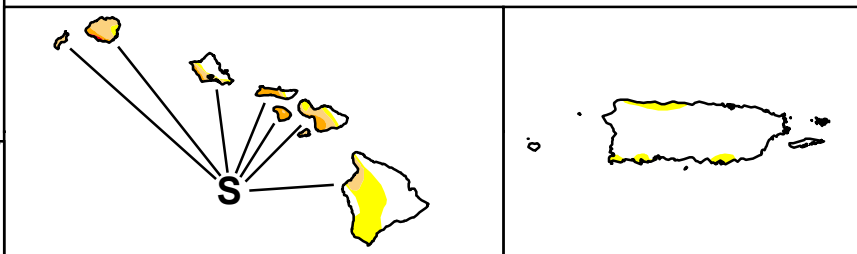
- ~ Delineates dominant impacts
- S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
- L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

Intensity:

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



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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>



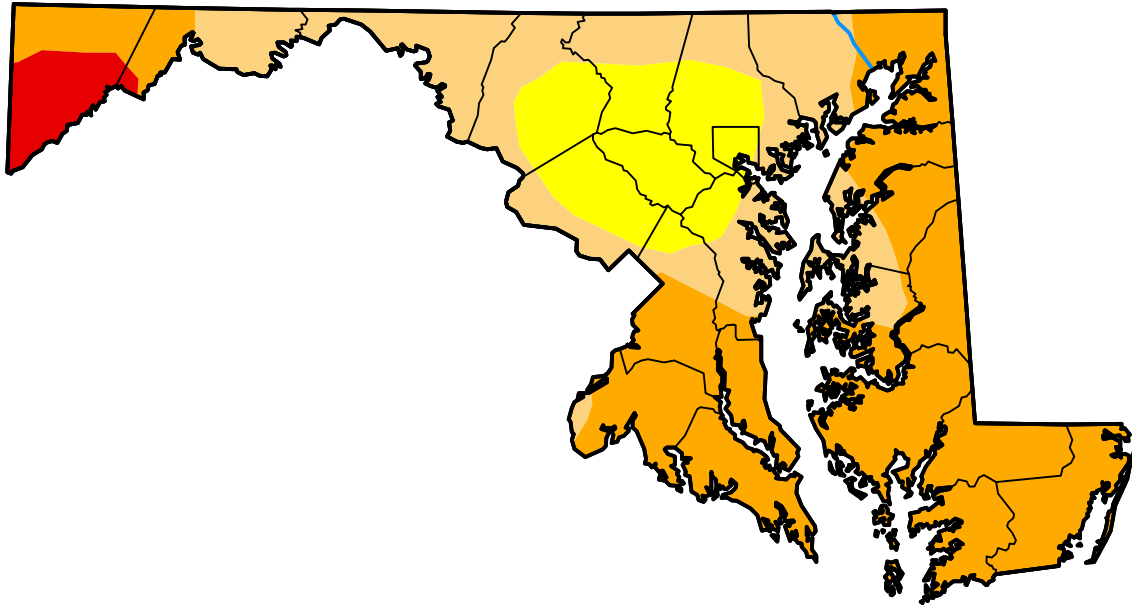
droughtmonitor.unl.edu

U.S. Drought Monitor Maryland

November 5, 2024
(Released Thursday, Nov. 7, 2024)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	83.20	53.16	4.07	0.00
Last Week <i>10-29-2024</i>	12.59	87.41	66.85	20.70	4.07	0.00
3 Months Ago <i>08-06-2024</i>	33.59	66.41	40.01	23.44	8.52	0.00
Start of Calendar Year <i>01-02-2024</i>	70.35	29.65	0.00	0.00	0.00	0.00
Start of Water Year <i>10-01-2024</i>	18.77	81.23	21.65	9.89	4.07	0.00
One Year Ago <i>11-07-2023</i>	12.82	87.18	9.86	0.47	0.00	0.00



Intensity:



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