

Overall Hydrologic Status for Maryland

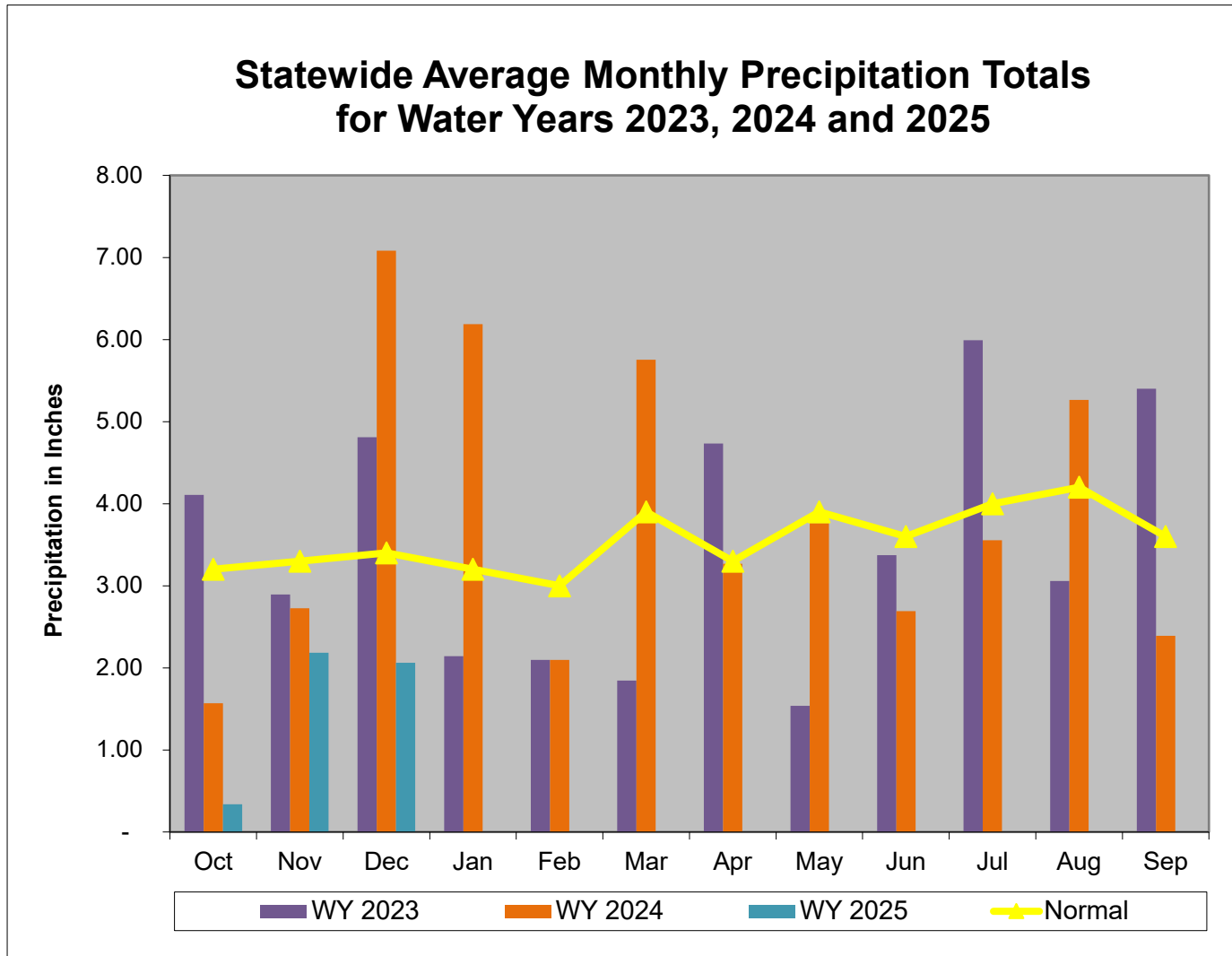
Summary of Hydrologic Indicators for 16 December 2024					
	Rainfall	Stream Flow	Groundwater	Reservoirs	Overall Status
Western	Watch	Normal	Watch	Normal	Watch
Central	Emergency	Watch	Watch	Normal	Watch
Eastern	Emergency	Emergency	Emergency		Warning
Southern	Emergency		Watch		Warning

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

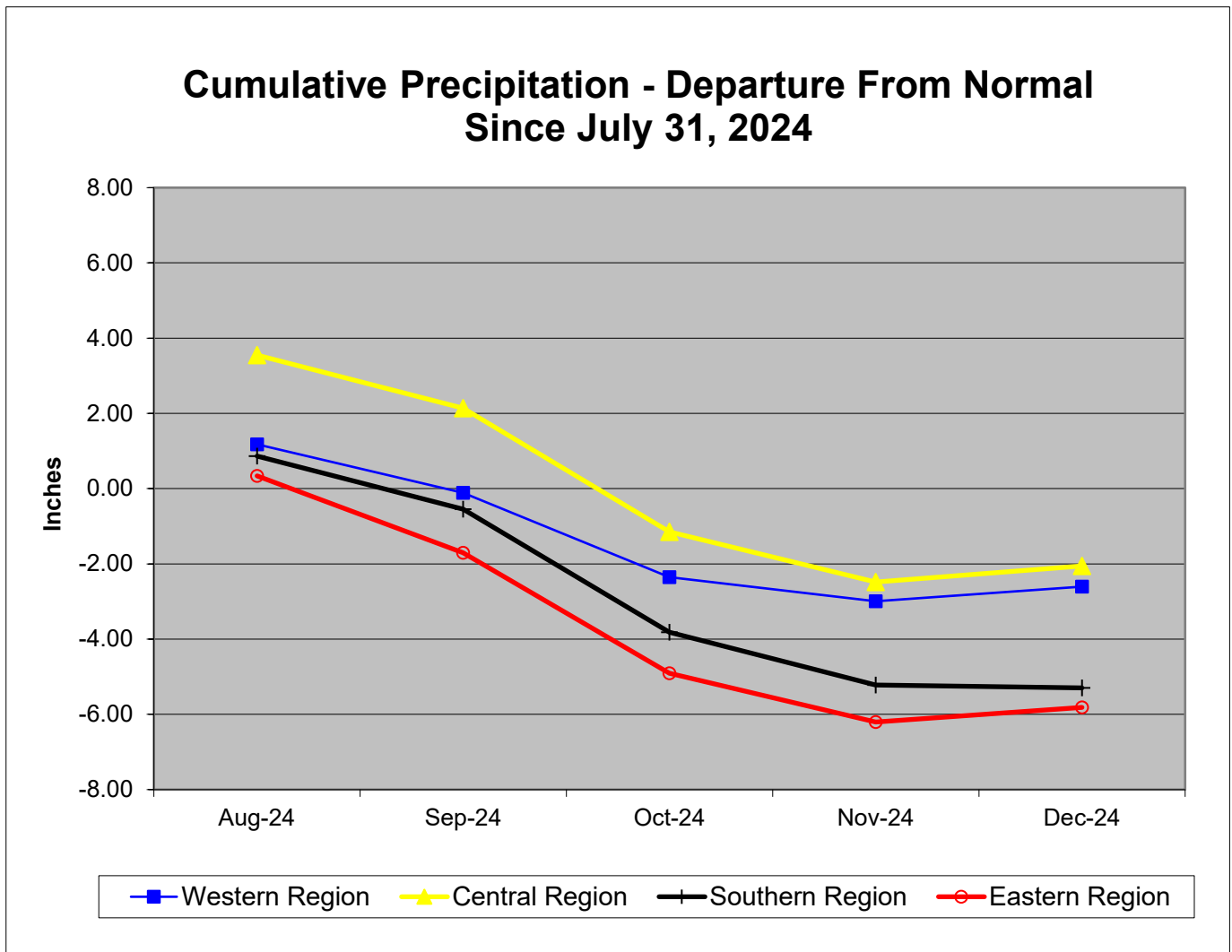
<https://www.mwcog.org/newsroom/2024/11/07/officials-extend-drought-watch-for-dc-region-drought/>

Precipitation Indicators for Maryland Drought Regions						
December 16, 2024						
	Since Sept 30, 2024		Since June 30, 2024		Since Dec 31, 2023	
Regions	Percent of Normal	Condition	Percent of Normal	Condition	Percent of Normal	Condition
Western	69%	Watch	83%	Normal	95%	Normal
Central	53%	Emergency	83%	Normal	98%	Normal
Eastern	51%	Emergency	76%	Watch	96%	Normal
Southern	46%	Emergency	68%	Warning	85%	Normal

WY or Water Year begins on October 1.



Data obtained from: http://www.weather.gov/marfc/Precipitation_Departures



**Precipitation in Maryland Counties
as of 16 December 2024 (WY 2025)**

		Normal Rainfall, Actual Rainfall and Rainfall Departure from Normal in Inches															
		WY ¹ To Date (Since September 30, 2024)				11.5 Months (Since December 31, 2023)				2.5 Months (Since September 30, 2024)				5.5 Months (Since May 31, 2024)			
		COUNTY	Normal	Actual	Depart	%	Normal	Actual	Depart	%	Normal	Actual	Depart	%	Normal	Actual	Depart
WESTERN REGION	ALLEGANY	7.5	4.4	-3.1	59%	37.9	36.1	-1.8	95%	7.5	4.4	-3.1	59%	17.8	14.6	-3.2	82%
	GARRETT	8.3	8.0	-0.3	96%	45.0	45.0	0.0	100%	8.3	8.0	-0.3	96%	20.7	17.0	-3.7	82%
	WASHINGTON	8.3	4.2	-4.1	51%	40.3	35.8	-4.5	89%	8.3	4.2	-4.1	51%	20.6	17.3	-3.3	84%
	Regional Average	8.0	5.5	-2.5	69%	41.0	39.0	-2.1	95%	8.0	5.5	-2.5	69%	19.7	16.3	-3.4	83%
CENTRAL REGION	BALTIMORE COUNTY	9.5	5.0	-4.5	53%	43.8	43.0	-0.8	98%	9.5	5.0	-4.5	53%	21.4	17.5	-3.8	82%
	CARROLL	8.9	5.0	-3.9	56%	42.0	41.7	-0.3	99%	8.9	5.0	-3.9	56%	20.6	19.1	-1.5	93%
	CECIL	9.0	4.9	-4.1	54%	43.2	42.6	-0.6	99%	9.0	4.9	-4.1	54%	21.4	14.2	-7.2	66%
	FREDERICK	8.6	4.6	-4.0	53%	40.9	40.6	-0.2	99%	8.6	4.6	-4.0	53%	19.6	17.4	-2.2	89%
	HARFORD	9.4	5.0	-4.3	54%	44.2	41.9	-2.3	95%	9.4	5.0	-4.3	54%	22.0	15.2	-6.8	69%
	HOWARD	9.1	4.8	-4.3	53%	42.8	41.9	-0.9	98%	9.1	4.8	-4.3	53%	20.5	18.8	-1.7	92%
	MONTGOMERY	8.7	4.4	-4.3	50%	41.3	39.3	-2.0	95%	8.7	4.4	-4.3	50%	20.0	18.1	-1.9	90%
	Regional Average	9.0	4.8	-4.2	53%	42.6	41.6	-1.0	98%	9.0	4.8	-4.2	53%	20.8	17.2	-3.6	83%
SOUTHERN REGION	ANNE ARUNDEL	8.7	4.2	-4.4	49%	41.3	37.6	-3.7	91%	8.7	4.2	-4.4	49%	20.0	15.5	-4.5	78%
	CALVERT	8.8	4.0	-4.8	46%	42.5	34.4	-8.1	81%	8.8	4.0	-4.8	46%	20.5	13.0	-7.5	64%
	CHARLES	8.6	3.6	-5.0	42%	41.0	34.0	-7.0	83%	8.6	3.6	-5.0	42%	20.1	12.4	-7.7	62%
	PRINCE GEORGES	8.8	4.1	-4.7	47%	41.0	35.3	-5.7	86%	8.8	4.1	-4.7	47%	20.0	15.0	-5.1	75%
	ST MARYS	8.8	3.9	-4.9	44%	42.2	36.2	-6.1	86%	8.8	3.9	-4.9	44%	20.8	13.2	-7.6	64%
	Regional Average	8.7	4.0	-4.8	46%	41.6	35.5	-6.1	85%	8.7	4.0	-4.8	46%	20.3	13.8	-6.5	68%
EASTERN REGION	CAROLINE	8.6	4.3	-4.3	50%	41.9	40.5	-1.3	97%	8.6	4.3	-4.3	50%	20.5	15.7	-4.8	77%
	DORCHESTER	8.5	4.1	-4.4	48%	42.4	38.4	-4.0	90%	8.5	4.1	-4.4	48%	20.4	16.0	-4.5	78%
	KENT	8.6	4.6	-4.0	54%	41.9	39.0	-2.9	93%	8.6	4.6	-4.0	54%	20.4	13.3	-7.1	65%
	QUEEN ANNES	8.6	4.4	-4.2	51%	41.7	39.3	-2.4	94%	8.6	4.4	-4.2	51%	20.3	14.4	-5.9	71%
	SOMERSET	8.1	4.6	-3.6	56%	41.8	42.7	1.0	102%	8.1	4.6	-3.6	56%	20.6	16.8	-3.8	82%
	TALBOT	8.7	4.2	-4.6	48%	42.4	40.0	-2.4	94%	8.7	4.2	-4.6	48%	20.6	15.6	-5.0	76%
	WICOMICO	8.0	4.3	-3.6	54%	40.6	42.3	1.7	104%	8.0	4.3	-3.6	54%	18.5	16.3	-2.2	88%
	WORCESTER	8.7	4.3	-4.4	50%	42.7	38.5	-4.2	90%	8.7	4.3	-4.4	50%	21.3	15.1	-6.1	71%
Regional Average	8.5	4.3	-4.1	51%	41.9	40.1	-1.8	96%	8.5	4.3	-4.1	51%	20.3	15.4	-4.9	76%	
INDEPENDENT CITY OF BALTIMORE		9.5	5.0	-4.5	53%	43.8	43.0	-0.8	98%	9.5	5.0	-4.5	53%	21.4	17.5	-3.8	82%
Statewide Average		8.7	4.6	-4.1	53%	42.0	39.5	-2.5	94%	8.7	4.6	-4.1	53%	20.4	15.8	-4.6	77%

WY¹ - USGS Water Year, which begins October 1

Stream Flow Status Based on Thirty Day Average for 2024 December 16

Region	Stream Gage Location	Notes	Status Based on 30 Day Average		
			30 Day Average (cfs)	Percentage	Status
Western	Youghiogheny (near Oakland)		370.4	60%-65%	Normal
Western	Savage River (near Barton)	[1]	40.0	25%-30%	Normal
Western	Wills Creek (near Cumberland)	[1]	236	55%-60%	Normal
Western	Marsh Run (at Grimes)	[1]	4.7	20%-25%	Watch
Central	Catoctin Creek (near Middletown)		18.4	10%-15%	Watch
Central	Monocacy (Jug Bridge near Frederick)	[1]	381	20%-25%	Watch
Central	Patuxent (near Unity)		17.9	15%-20%	Watch
Central	Deer Cr (at Rocks)	[1]	57.0	20%-25%	Watch
Eastern	Choptank (near Greensboro)		18.0	0%-5%	Emergency
Eastern	Nassawango Creek (near Snow Hill)		2.1	0%-5%	Emergency
	Susquehanna (at Marietta)		24,531	30%-35%	Normal
	Potomac (at Little Falls)(Adjusted)		3,693	15%-20%	Watch

Notes:

[1] Some data missing due to ice

Ground Water Status for 16 December 2024				
Region	USGS Well ID	Well Level[1]	Status	
Western	GA Bc 1	10.02 [3]	Normal	Watch
	AL Ah 1	4.87 [2]	Normal	
	WA Be 2	35 [2]	Normal	
	WA Bk 25	49.9 [3]	Emergency	
	WA Ci 82	54.01 [2]	Watch	
Central	BA Dc 444	42.58 [3]	Watch	Watch
	BA Ea 18	24.48 [2]	Watch	
	CL Ad 47	2.63 [3]	Normal	
	Fr Bd 96	26.15 [2]	Normal	
	Fr Df 35	58.32 [2]	Normal	
	HA Bd 31	16.67 [2]	Watch	
	HA Ca 23	8.96 [2]	Emergency	
	MO Cc 14	39.61 [2]	Normal	
Eastern	QA Cg 69	5.73 [2]	Watch	Emergency
	WI Cg 20	8.99 [2]	Emergency	
	MC51-01	15.43 [3]	Warning	
	SO Cf 2	6.72 [3]	Emergency	
Southern	CH Bg 12 (unconfined)	8.32 [3]	Emergency	Watch
	CA Fd 54 (confined)	243.13	On Trend[4]	

[1] - Measurement of water level as feet below land surface
[2] - Not Available as of 2024-12-17
[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.

Selected ground water levels are available from USGS at:

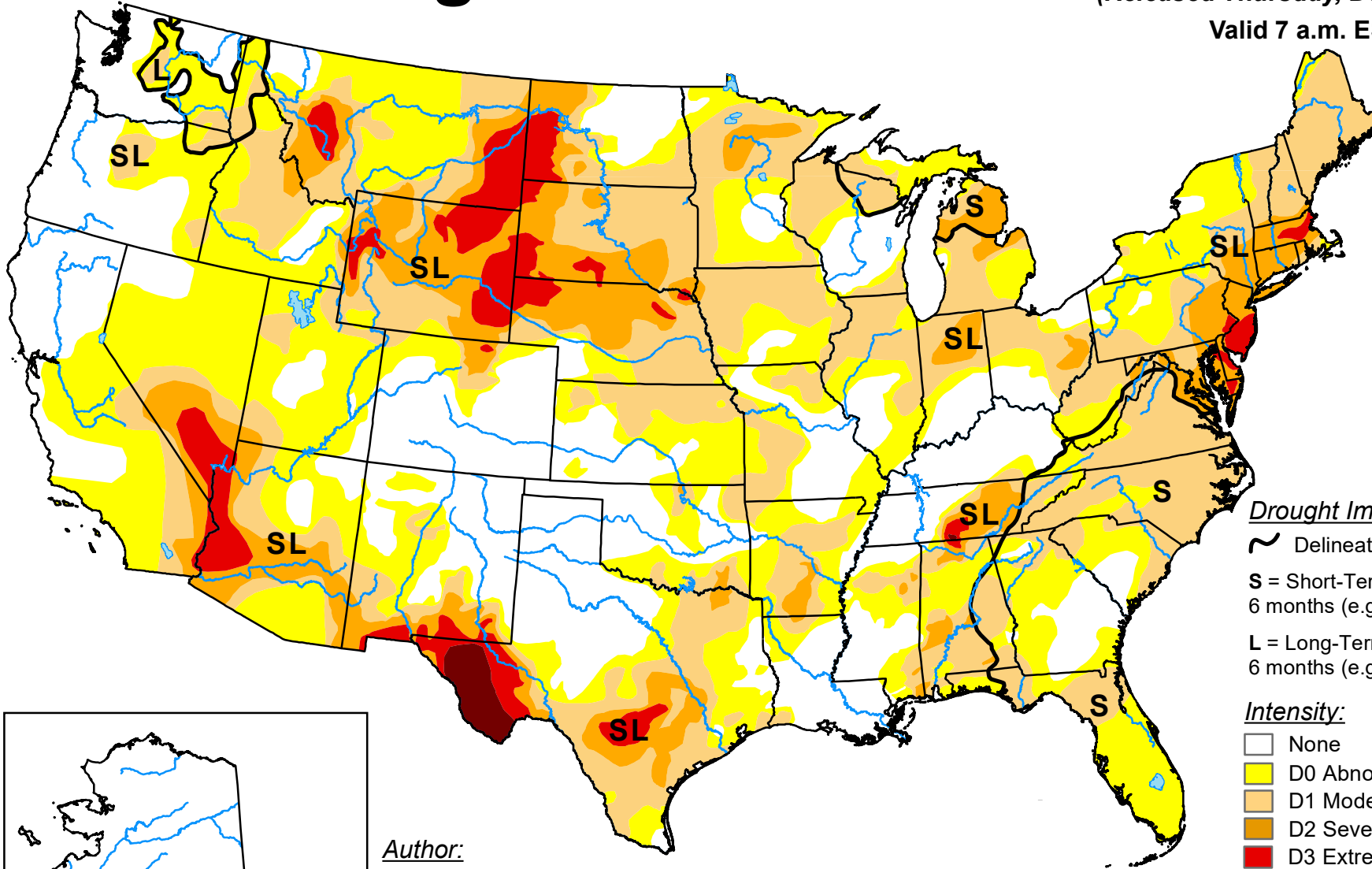
<http://md.water.usgs.gov/groundwater/>

Data for other wells may be downloaded from:


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

U.S. Drought Monitor







December 10, 2024
(Released Thursday, Dec. 12, 2024)
Valid 7 a.m. EST



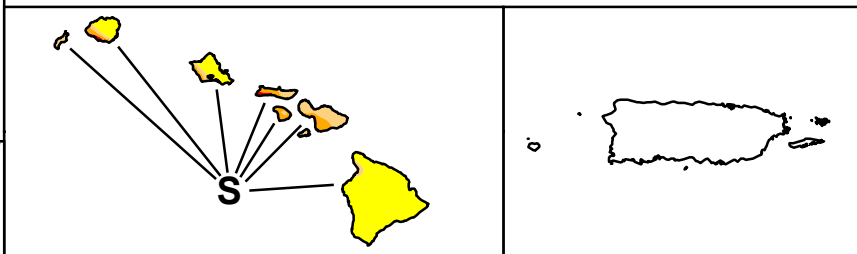
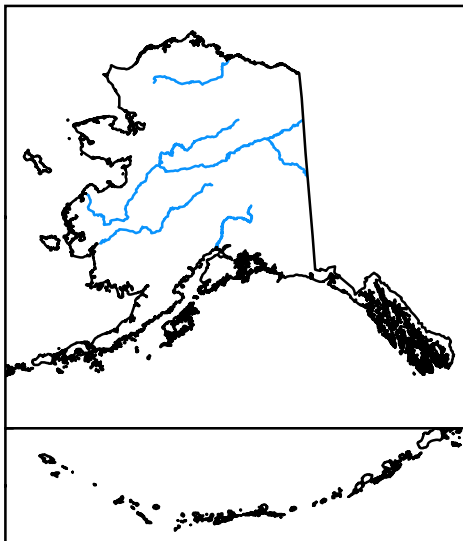
Drought Impact Types:

-  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

Author:
Curtis Riganti
National Drought Mitigation Center



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

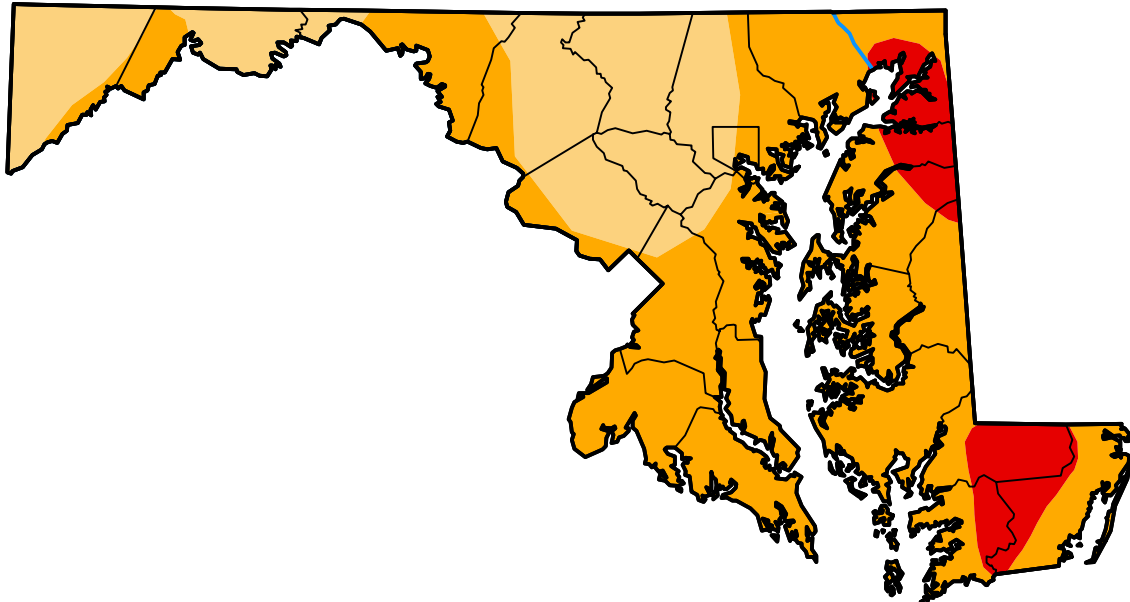
U.S. Drought Monitor

Maryland

December 10, 2024
 (Released Thursday, Dec. 12, 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	100.00	68.83	9.39	0.00
Last Week <i>12-03-2024</i>	0.00	100.00	100.00	68.83	9.39	0.00
3 Months Ago <i>09-10-2024</i>	26.99	73.01	17.94	10.08	1.34	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>12-12-2023</i>	22.46	77.54	29.91	0.00	0.00	0.00



Intensity:



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