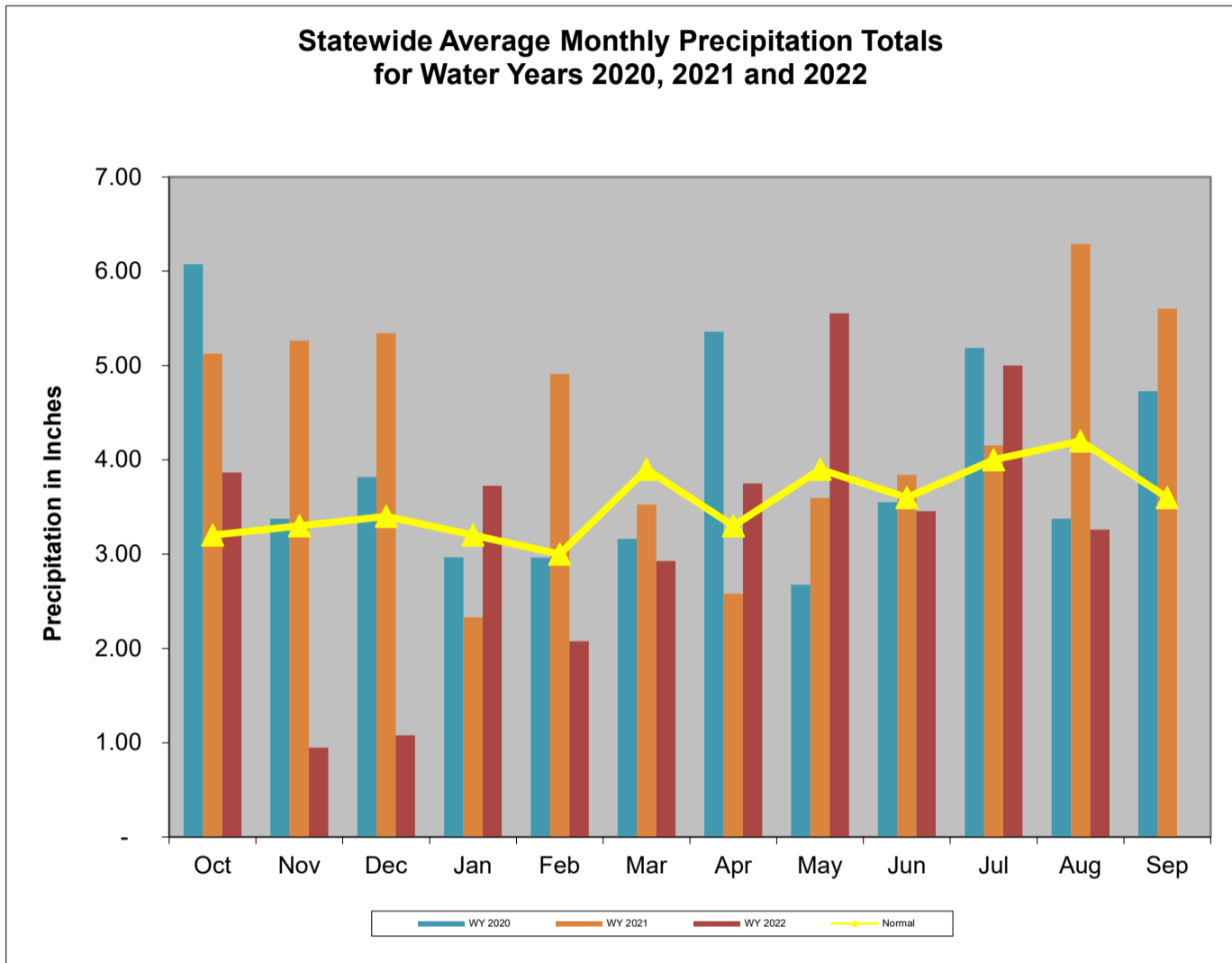


Overall Hydrologic Status for Maryland

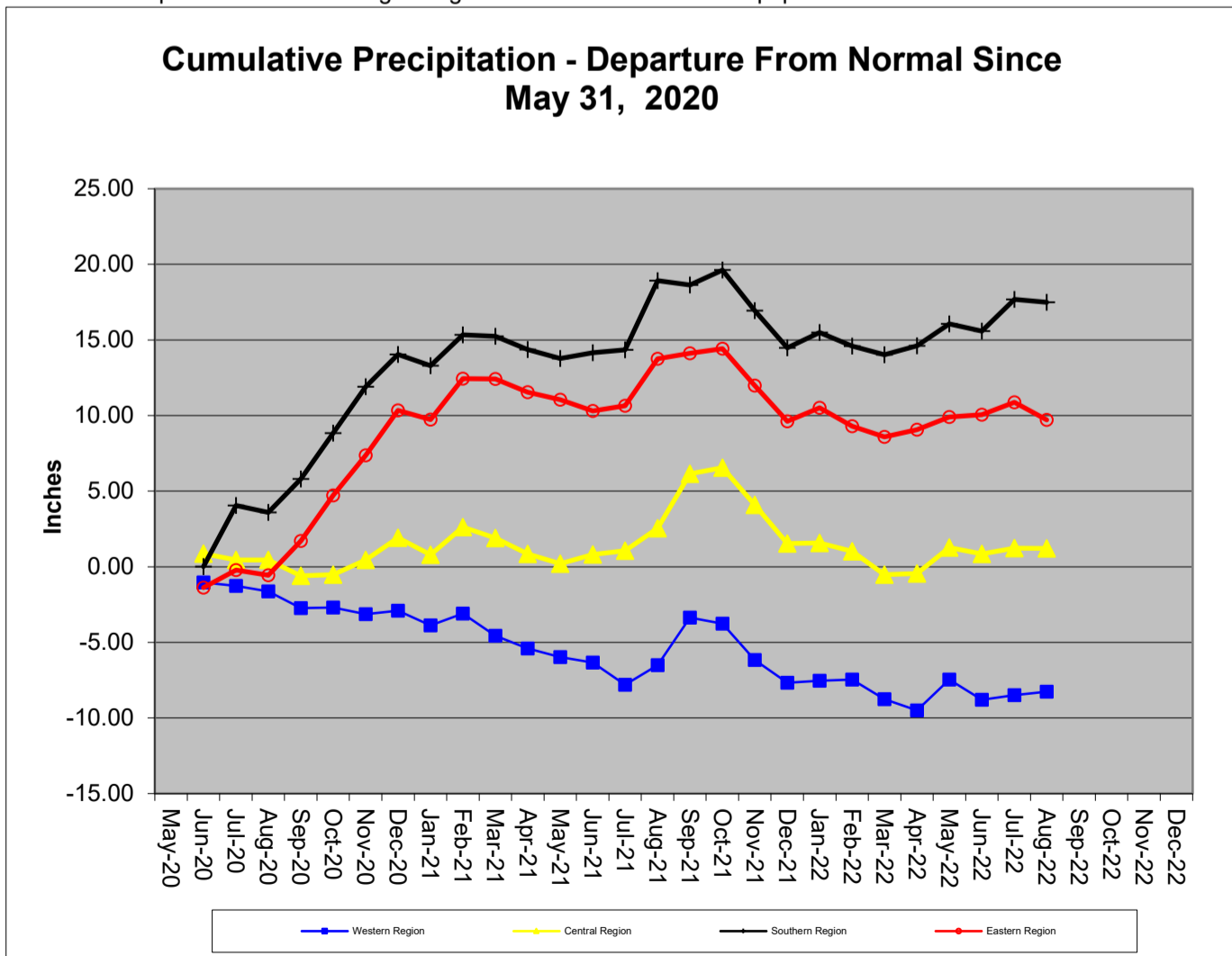
| Summary of Hydrologic Indicators for 31-August-2022 | | | | | |
|---|-----------------|--------------------|--------------------|-------------------|----------------|
| | Rainfall | Stream Flow | Groundwater | Reservoirs | Overall Status |
| Western | Normal | Normal | Normal | Normal | Normal |
| Central | Normal | Normal | Normal | Normal | Normal |
| Eastern | Normal | Normal | Watch | | Normal |
| Southern | Normal | | Normal | | Normal |

| Precipitation Indicators for Maryland Drought Regions | | | | | | |
|---|-------------------|-----------|--------------------|-----------|-----------------------|-----------|
| August 31, 2022 | | | | | | |
| | WY to Date | | Since Feb 28, 2022 | | Since August 31, 2021 | |
| Regions | Percent of Normal | Condition | Percent of Normal | Condition | Percent of Normal | Condition |
| Western | 87% | Normal | 97% | Normal | 96% | Normal |
| Central | 88% | Normal | 101% | Normal | 97% | Normal |
| Eastern | 89% | Normal | 102% | Normal | 91% | Normal |
| Southern | 97% | Normal | 113% | Normal | 97% | 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 31 August 2022 (WY 2022)**

| | | Normal Rainfall, Actual Rainfall and Rainfall Departure from Normal in Inches | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|--------|--------|------|--------------------------------------|--------|--------|------|----------------------------------|--------|--------|------|----------------------------------|--------|--------|------|
| | | WY ¹ To Date (Since Sep 30, 2021) | | | | 12 Months (Since August 31, 2021) | | | | 3 Months (Since May 31, 2022) | | | | 6 Months (Since Feb 28, 2022) | | | |
| REGION | COUNTY | Normal | Actual | Depart | % | Normal | Actual | Depart | % | Normal | Actual | Depart | % | Normal | Actual | Depart | % |
| | WESTERN REGION | ALLEGANY | 35.6 | 29.7 | -5.9 | 83% | 39.1 | 36.0 | -3.1 | 92% | 10.5 | 9.6 | -0.9 | 91% | 21.7 | 20.5 | -1.2 |
| GARRETT | | 43.4 | 41.3 | -2.1 | 95% | 47.1 | 47.1 | 0.0 | 100% | 13.2 | 13.3 | 0.1 | 101% | 26.1 | 26.1 | 0.0 | 100% |
| WASHINGTON | | 36.0 | 29.3 | -6.7 | 81% | 39.8 | 37.6 | -2.2 | 94% | 10.5 | 8.9 | -1.6 | 85% | 21.4 | 20.2 | -1.2 | 94% |
| Regional Average | | 38.3 | 33.4 | -4.9 | 87% | 42.0 | 40.2 | -1.8 | 96% | 11.4 | 10.6 | -0.8 | 93% | 23.1 | 22.3 | -0.8 | 97% |
| CENTRAL REGION | BALTIMORE COUNTY | 41.2 | 36.2 | -5.0 | 88% | 45.6 | 43.2 | -2.4 | 95% | 11.2 | 12.2 | 1.0 | 109% | 23.6 | 24.2 | 0.6 | 103% |
| | CARROLL | 39.2 | 31.9 | -7.3 | 81% | 43.5 | 40.8 | -2.7 | 94% | 11.1 | 9.4 | -1.7 | 85% | 22.8 | 20.7 | -2.1 | 91% |
| | CECIL | 40.6 | 39.5 | -1.1 | 97% | 45.0 | 47.9 | 2.9 | 106% | 11.9 | 13.3 | 1.4 | 112% | 23.7 | 26.8 | 3.1 | 113% |
| | FREDERICK | 38.2 | 28.5 | -9.7 | 75% | 42.3 | 38.1 | -4.2 | 90% | 10.7 | 7.8 | -2.9 | 73% | 22.4 | 18.8 | -3.6 | 84% |
| | HARFORD | 41.3 | 39.4 | -1.9 | 95% | 45.7 | 48.8 | 3.1 | 107% | 12.1 | 14.7 | 2.6 | 121% | 24.1 | 27.9 | 3.8 | 116% |
| | HOWARD | 40.3 | 34.6 | -5.7 | 86% | 44.4 | 40.1 | -4.3 | 90% | 11.2 | 10.1 | -1.1 | 90% | 23.3 | 22.0 | -1.3 | 94% |
| | MONTGOMERY | 38.5 | 34.7 | -3.8 | 90% | 42.6 | 40.9 | -1.7 | 96% | 11.1 | 11.4 | 0.3 | 103% | 22.7 | 23.5 | 0.8 | 104% |
| | Regional Average | 39.9 | 35.0 | -4.9 | 88% | 44.2 | 42.8 | -1.3 | 97% | 11.3 | 11.3 | -0.1 | 99% | 23.2 | 23.4 | 0.2 | 101% |
| SOUTHERN REGION | ANNE ARUNDEL | 38.9 | 39.5 | 0.6 | 102% | 42.8 | 43.7 | 0.9 | 102% | 11.1 | 13.5 | 2.4 | 122% | 22.8 | 26.5 | 3.7 | 116% |
| | CALVERT | 40.2 | 36.9 | -3.3 | 92% | 44.1 | 40.2 | -3.9 | 91% | 11.8 | 11.6 | -0.2 | 98% | 23.6 | 24.8 | 1.2 | 105% |
| | CHARLES | 38.6 | 36.4 | -2.2 | 94% | 42.5 | 40.1 | -2.4 | 94% | 11.5 | 12.0 | 0.5 | 104% | 22.6 | 24.3 | 1.7 | 108% |
| | PRINCE GEORGES | 38.7 | 38.3 | -0.4 | 99% | 42.5 | 42.0 | -0.5 | 99% | 11.2 | 12.9 | 1.7 | 115% | 22.5 | 25.7 | 3.2 | 114% |
| | ST MARYS | 39.8 | 39.4 | -0.4 | 99% | 43.7 | 42.5 | -1.2 | 97% | 11.8 | 14.6 | 2.8 | 124% | 23.4 | 28.1 | 4.7 | 120% |
| | Regional Average | 39.2 | 38.1 | -1.1 | 97% | 43.1 | 41.7 | -1.4 | 97% | 11.5 | 12.9 | 1.4 | 113% | 23.0 | 25.9 | 2.9 | 113% |
| EASTERN REGION | CAROLINE | 39.8 | 36.9 | -2.9 | 93% | 43.6 | 41.3 | -2.3 | 95% | 11.8 | 12.5 | 0.7 | 106% | 23.4 | 25.3 | 1.9 | 108% |
| | DORCHESTER | 40.3 | 34.2 | -6.1 | 85% | 43.9 | 38.0 | -5.9 | 87% | 12.3 | 12.8 | 0.5 | 104% | 23.9 | 23.7 | -0.2 | 99% |
| | KENT | 39.2 | 34.7 | -4.5 | 89% | 43.5 | 40.4 | -3.1 | 93% | 11.2 | 11.0 | -0.2 | 98% | 22.9 | 23.9 | 1.0 | 104% |
| | QUEEN ANNES | 39.2 | 36.6 | -2.6 | 93% | 43.3 | 41.7 | -1.6 | 96% | 11.3 | 11.5 | 0.2 | 102% | 22.9 | 25.1 | 2.2 | 110% |
| | SOMERSET | 39.4 | 31.3 | -8.1 | 79% | 43.2 | 34.8 | -8.4 | 81% | 12.2 | 9.2 | -3.0 | 75% | 23.3 | 19.9 | -3.4 | 85% |
| | TALBOT | 40.2 | 38.7 | -1.5 | 96% | 44.0 | 43.0 | -1.0 | 98% | 11.9 | 13.7 | 1.8 | 115% | 23.6 | 27.4 | 3.8 | 116% |
| | WICOMICO | 40.2 | 37.9 | -2.3 | 94% | 44.0 | 42.0 | -2.0 | 95% | 12.2 | 12.8 | 0.6 | 105% | 23.6 | 24.1 | 0.5 | 102% |
| | WORCESTER | 40.4 | 33.1 | -7.3 | 82% | 44.3 | 36.3 | -8.0 | 82% | 12.2 | 10.1 | -2.1 | 83% | 23.4 | 20.9 | -2.5 | 89% |
| Regional Average | 39.8 | 35.4 | -4.4 | 89% | 43.7 | 39.7 | -4.0 | 91% | 11.9 | 11.7 | -0.2 | 98% | 23.4 | 23.8 | 0.4 | 102% | |
| INDEPENDENT CITY OF BALTIMORE | | 41.2 | 36.2 | -5.0 | 88% | 45.6 | 43.2 | -2.4 | 95% | 11.2 | 12.2 | 1.0 | 109% | 23.6 | 24.2 | 0.6 | 103% |
| Statewide Average | | 39.6 | 35.6 | -4.0 | 90% | 43.6 | 41.2 | -2.3 | 95% | 11.6 | 11.7 | 0.2 | 101% | 23.2 | 23.9 | 0.7 | 103% |

WY¹ - USGS Water Year, which begins October 1

Stream Flow Status Based on Thirty Day Average for 2022-August-31

| Region | Stream Gage Location | Notes | Status Based on 30 Day Average | | |
|---------|--------------------------------------|-------|--------------------------------|------------|--------|
| | | | 30 Day Average (cfs) | Percentage | Status |
| Western | Youghiogheny (near Oakland) | | 77 | 45%-50% | Normal |
| Western | Savage River (near Barton) | | 13.0 | 60%-65% | Normal |
| Western | Wills Creek (near Cumberland) | | 107 | 70%-75% | Normal |
| Western | Marsh Run (at Grimes) | | 6.7 | 50%-55% | Normal |
| Central | Catoctin Creek (near Middletown) | | 17.3 | 55%-60% | Normal |
| Central | Monocacy (Jug Bridge near Frederick) | | 199 | 35%-40% | Normal |
| Central | Patuxent (near Unity) | | 12.7 | 35%-40% | Normal |
| Central | Deer Cr (at Rocks) | | 61.5 | 30%-35% | Normal |
| Eastern | Choptank (near Greensboro) | | 22.5 | 30%-35% | Normal |
| Eastern | Nassawango Creek (near Snow Hill) | | 3.9 | 20%-25% | Watch |
| | Susquehanna (at Marietta) | | 5,856 | 15%-20% | Watch |
| | Potomac (at Little Falls)(Adjusted) | | 3,760 | 45%-50% | Normal |

Notes:

| Ground Water Status for 31 August 2022 | | | |
|---|-----------------------|---------------|-------------|
| Region | USGS Well ID | Well Level[1] | Status |
| Western | GA Bc 1 | 14.48 | Normal |
| | AL Ah 1 | 5.29 | Normal |
| | WA Be 2 | 34.24 | Normal |
| | WA Bk 25 | 48.17 | Watch |
| Central | BA Dc 444 | 38.68 | Normal |
| | BA Ea 18 | 23.58 | Watch |
| | HA Bd 31 | 13.19 | Normal |
| | HA Ca 23 | 7.72 | Normal |
| | MO Cc 14 | 36.70 | Normal |
| Eastern | QA Cg 69 | 5.06 | Normal |
| | WI Cg 20 | 7.45 | Watch |
| | MC51-01 | 13.98 | Watch |
| | SO Cf 2 | 6.16 | Emergency |
| Southern | CH Bg 12 (unconfined) | 6.70 | Normal |
| | AA Cc 40 (confined) | NA[2] | Unknown |
| | CA Fd 54 (confined) | 240.01 | On Trend[4] |
| | CH Dd 33 (confined) | NA[2] | Unknown |
| | PG De 21 (confined) | NA[2] | Unknown |
| | SM Fg 45 (confined) | NA[2] | Unknown |
| [1] - Measurement of water level as feet below land surface [2] - Not Available as of 2022-09-07 [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:

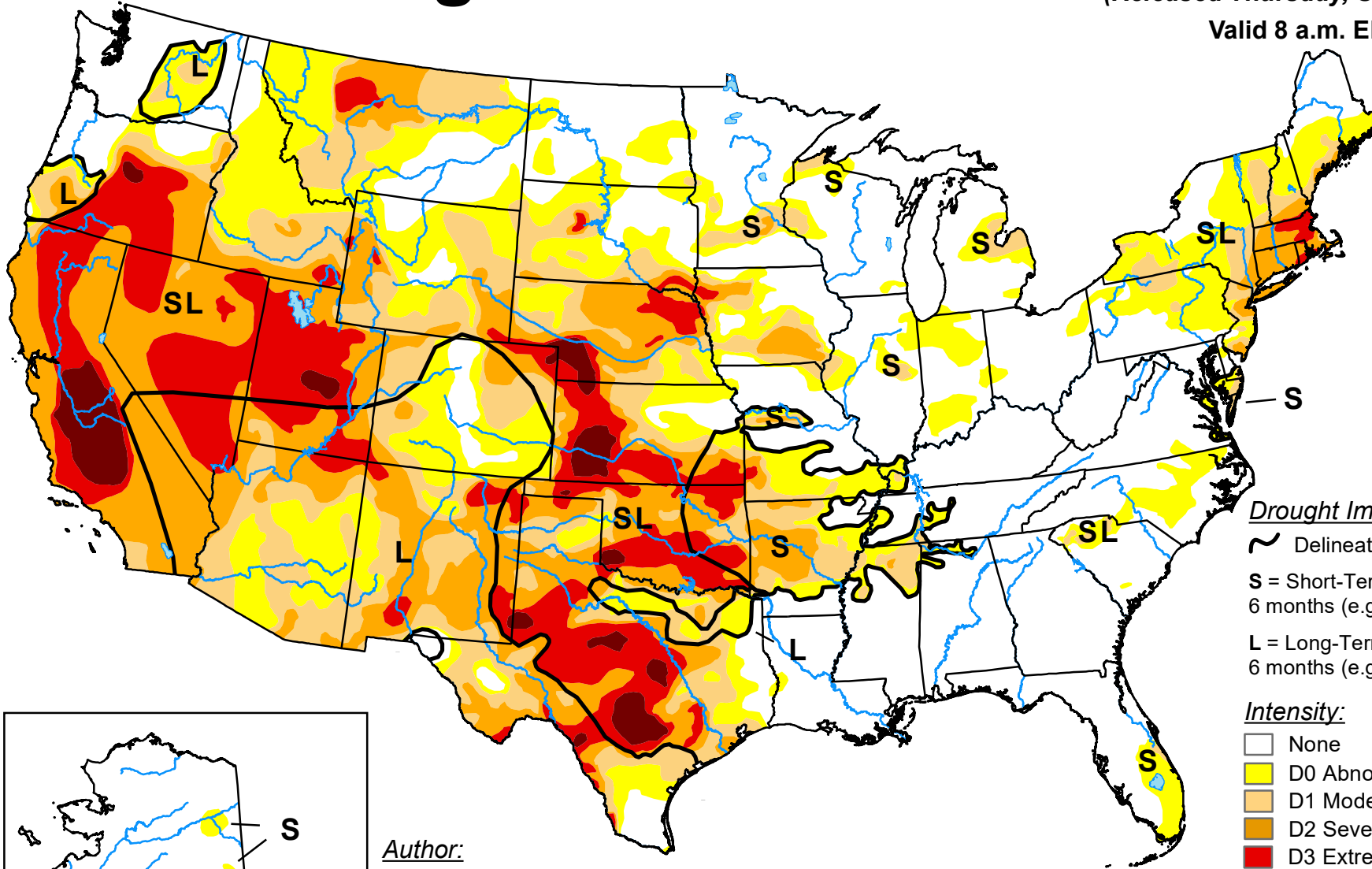
[USGS - NWIS Web Information for USA](https://www.usgs.gov/nwis)

U.S. Drought Monitor

August 30, 2022

(Released Thursday, Sep. 1, 2022)

Valid 8 a.m. EDT

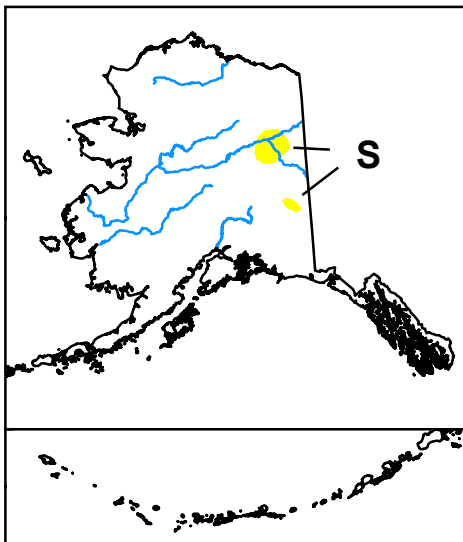


Drought Impact Types:

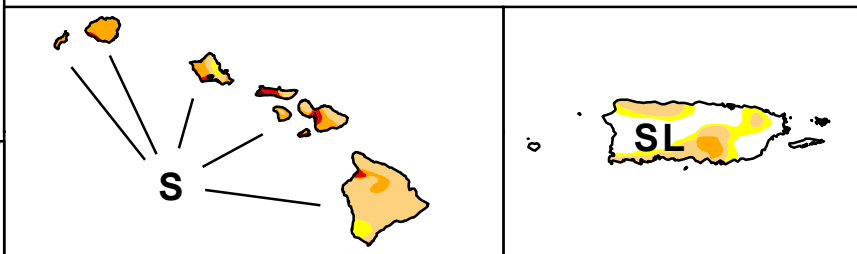
- Delineates dominant impacts
- S** = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
- L** = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

Intensity:

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



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National Drought Mitigation Center



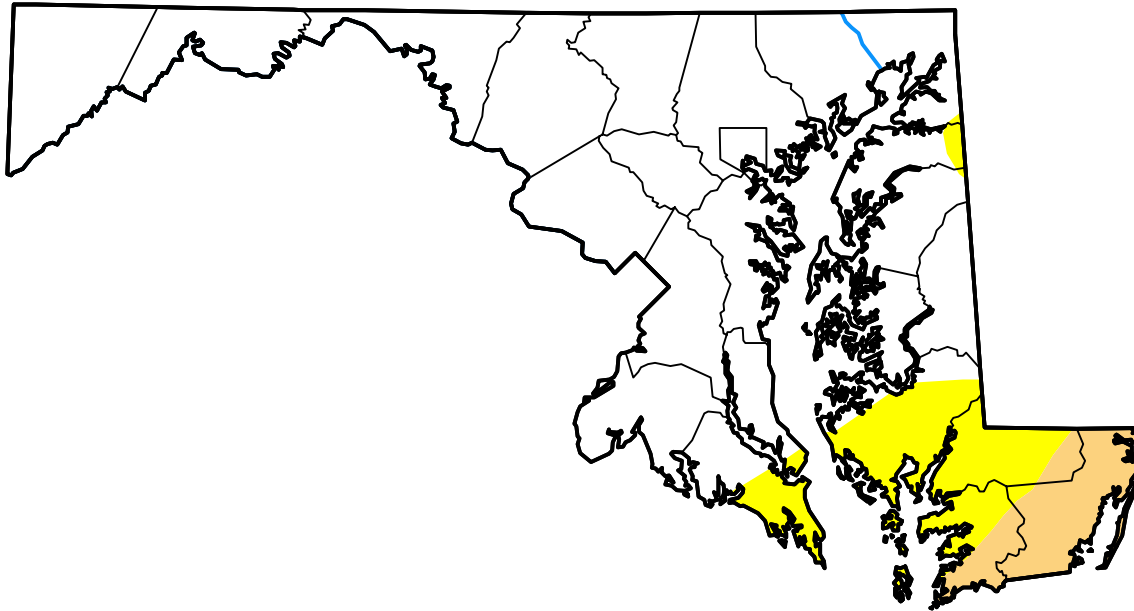
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>



droughtmonitor.unl.edu

U.S. Drought Monitor Maryland

August 30, 2022
(Released Thursday, Sep. 1, 2022)
Valid 8 a.m. EDT



Drought Conditions (Percent Area)

| | None | D0-D4 | D1-D4 | D2-D4 | D3-D4 | D4 |
|--|--------|-------|-------|-------|-------|------|
| Current | 81.40 | 18.60 | 6.79 | 0.00 | 0.00 | 0.00 |
| Last Week <i>08-23-2022</i> | 92.96 | 7.04 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3 Months Ago <i>05-31-2022</i> | 97.84 | 2.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| Start of Calendar Year <i>01-04-2022</i> | 55.15 | 44.85 | 0.00 | 0.00 | 0.00 | 0.00 |
| Start of Water Year <i>09-28-2021</i> | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| One Year Ago <i>08-31-2021</i> | 91.55 | 8.45 | 0.00 | 0.00 | 0.00 | 0.00 |

Intensity:



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