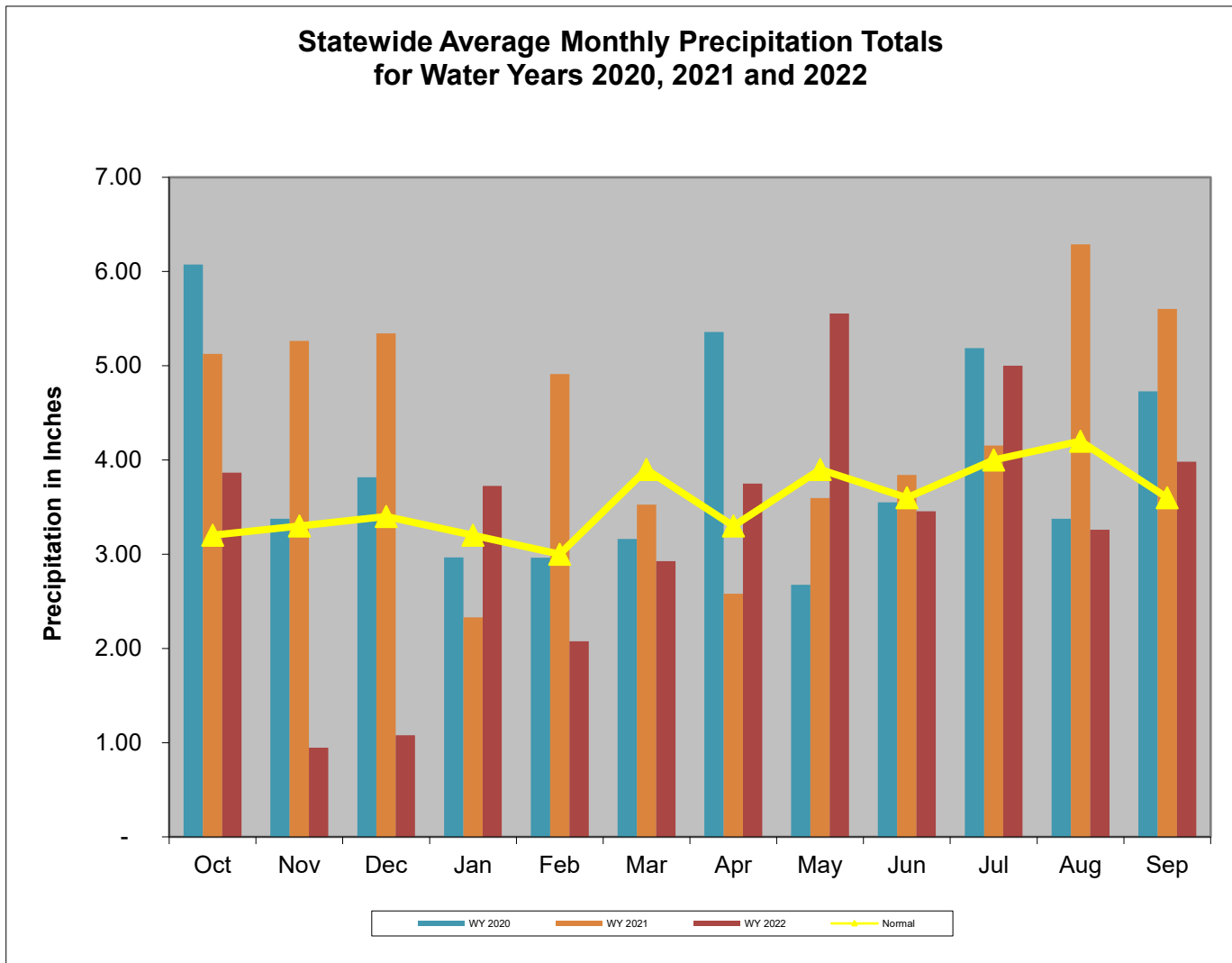


Overall Hydrologic Status for Maryland

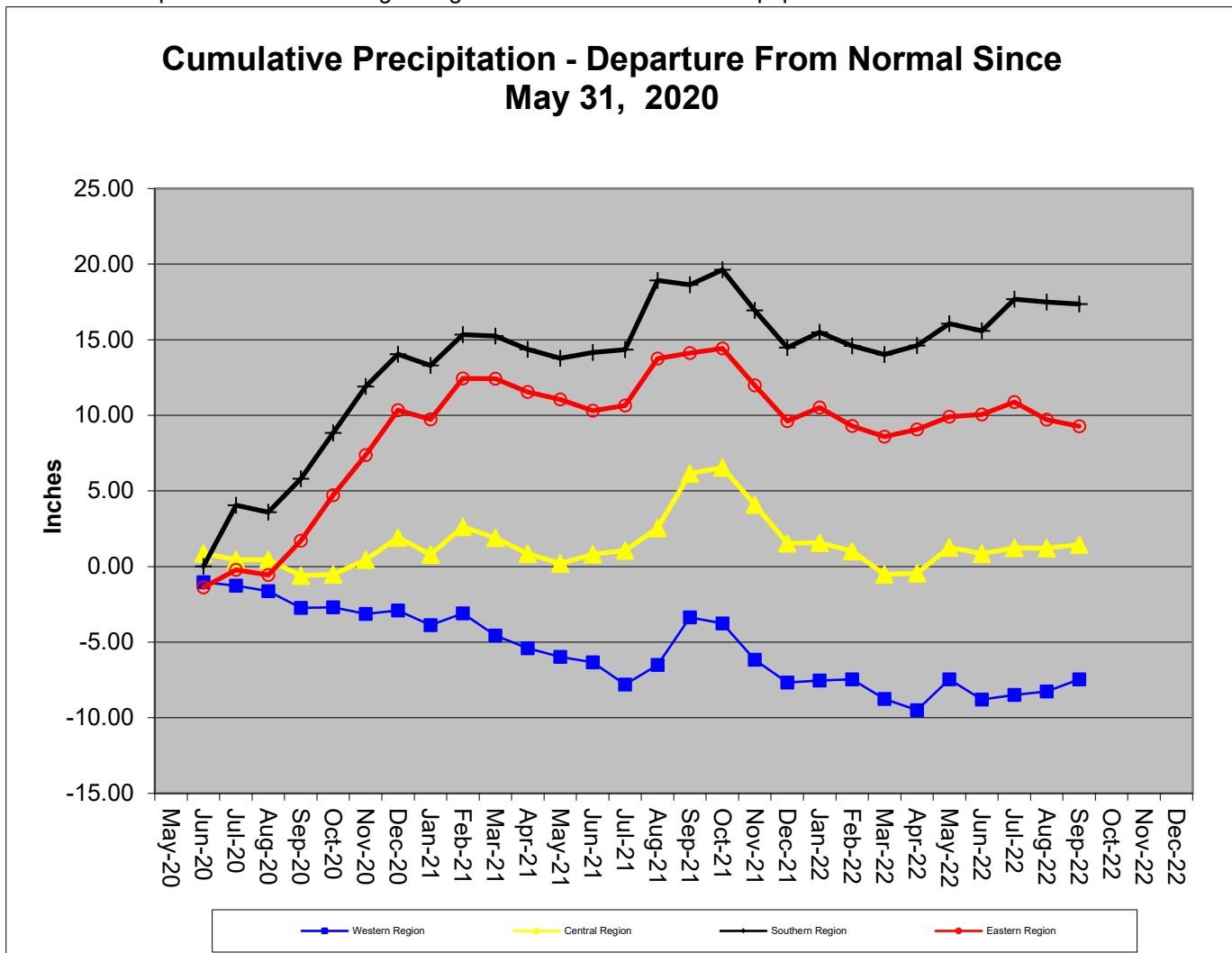
| Summary of Hydrologic Indicators for 30-September-2022 | | | | | |
|--|----------|-------------|-------------|------------|----------------|
| | Rainfall | Stream Flow | Groundwater | Reservoirs | Overall Status |
| Western | Normal | Normal | Normal | Normal | Normal |
| Central | Normal | Normal | Normal | Normal | Normal |
| Eastern | Normal | Normal | Watch | | Normal |
| Southern | Normal | | Normal | | Normal |

| Precipitation Indicators for Maryland Drought Regions | | | | | | |
|---|-------------------|-----------|----------------------|-----------|--------------------------|-----------|
| September 30, 2022 | | | | | | |
| | WY to Date | | Since March 31, 2022 | | Since September 30, 2021 | |
| Regions | Percent of Normal | Condition | Percent of Normal | Condition | Percent of Normal | Condition |
| Western | 90% | Normal | 106% | Normal | 90% | Normal |
| Central | 89% | Normal | 108% | Normal | 89% | Normal |
| Eastern | 89% | Normal | 103% | Normal | 89% | Normal |
| Southern | 97% | Normal | 115% | 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 30 September 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 September 30, 2021) | | | | 3 Months (Since June 30, 2022) | | | | 6 Months (Since March 31, 2022) | | | |
| | | COUNTY | Normal | Actual | Depart | % | Normal | Actual | Depart | % | Normal | Actual | Depart | % | Normal | Actual | Depart |
| WESTERN REGION | ALLEGANY | 39.1 | 34.1 | -5.0 | 87% | 39.1 | 34.1 | -5.0 | 87% | 10.3 | 11.9 | 1.6 | 116% | 21.6 | 22.7 | 1.1 | 105% |
| | GARRETT | 47.1 | 46.1 | -1.0 | 98% | 47.1 | 46.1 | -1.0 | 98% | 12.4 | 14.8 | 2.4 | 119% | 25.7 | 27.8 | 2.1 | 108% |
| | WASHINGTON | 39.8 | 33.5 | -6.3 | 84% | 39.8 | 33.5 | -6.3 | 84% | 10.5 | 10.5 | 0.0 | 100% | 21.7 | 22.4 | 0.7 | 103% |
| | Regional Average | 42.0 | 37.9 | -4.1 | 90% | 42.0 | 37.9 | -4.1 | 90% | 11.1 | 12.4 | 1.3 | 112% | 23.0 | 24.3 | 1.3 | 106% |
| CENTRAL REGION | BALTIMORE COUNTY | 45.6 | 41.0 | -4.6 | 90% | 45.6 | 41.0 | -4.6 | 90% | 11.9 | 13.5 | 1.6 | 113% | 23.9 | 26.5 | 2.6 | 111% |
| | CARROLL | 43.5 | 35.9 | -7.6 | 83% | 43.5 | 35.9 | -7.6 | 83% | 11.7 | 10.9 | -0.8 | 93% | 23.3 | 22.2 | -1.1 | 95% |
| | CECIL | 44.6 | 43.7 | -0.9 | 98% | 44.6 | 43.7 | -0.9 | 98% | 12.0 | 12.6 | 0.6 | 105% | 23.6 | 28.4 | 4.8 | 120% |
| | FREDERICK | 42.3 | 32.5 | -9.8 | 77% | 42.3 | 32.5 | -9.8 | 77% | 11.0 | 9.8 | -1.2 | 89% | 22.8 | 20.7 | -2.1 | 91% |
| | HARFORD | 45.7 | 44.2 | -1.5 | 97% | 45.7 | 44.2 | -1.5 | 97% | 12.6 | 15.3 | 2.7 | 121% | 24.5 | 29.9 | 5.4 | 122% |
| | HOWARD | 44.4 | 39.2 | -5.2 | 88% | 44.4 | 39.2 | -5.2 | 88% | 11.4 | 11.4 | 0.0 | 100% | 23.4 | 24.5 | 1.1 | 105% |
| | MONTGOMERY | 42.7 | 39.4 | -3.3 | 92% | 42.7 | 39.4 | -3.3 | 92% | 11.4 | 12.6 | 1.2 | 111% | 23.1 | 26.1 | 3.0 | 113% |
| | Regional Average | 44.1 | 39.4 | -4.7 | 89% | 44.1 | 39.4 | -4.7 | 89% | 11.7 | 12.3 | 0.6 | 105% | 23.5 | 25.5 | 2.0 | 108% |
| SOUTHERN REGION | ANNE ARUNDEL | 42.8 | 42.9 | 0.1 | 100% | 42.8 | 42.9 | 0.1 | 100% | 11.3 | 13.5 | 2.2 | 119% | 22.8 | 27.1 | 4.3 | 119% |
| | CALVERT | 44.1 | 40.9 | -3.2 | 93% | 44.1 | 40.9 | -3.2 | 93% | 11.7 | 12.7 | 1.0 | 109% | 23.5 | 25.1 | 1.6 | 107% |
| | CHARLES | 42.5 | 39.8 | -2.7 | 94% | 42.5 | 39.8 | -2.7 | 94% | 11.5 | 12.1 | 0.6 | 105% | 22.7 | 24.7 | 2.0 | 109% |
| | PRINCE GEORGES | 42.5 | 41.6 | -0.9 | 98% | 42.5 | 41.6 | -0.9 | 98% | 11.2 | 13.2 | 2.0 | 118% | 22.6 | 26.1 | 3.5 | 115% |
| | ST MARYS | 43.7 | 44.0 | 0.3 | 101% | 43.7 | 44.0 | 0.3 | 101% | 12.0 | 15.1 | 3.1 | 126% | 23.2 | 28.5 | 5.3 | 123% |
| | Regional Average | 43.1 | 41.8 | -1.3 | 97% | 43.1 | 41.8 | -1.3 | 97% | 11.5 | 13.3 | 1.8 | 115% | 23.0 | 26.3 | 3.3 | 115% |
| EASTERN REGION | CAROLINE | 43.6 | 40.3 | -3.3 | 92% | 43.6 | 40.3 | -3.3 | 92% | 11.9 | 11.7 | -0.2 | 98% | 23.2 | 25.1 | 1.9 | 108% |
| | DORCHESTER | 43.9 | 37.7 | -6.2 | 86% | 43.9 | 37.7 | -6.2 | 86% | 11.9 | 11.9 | 0.0 | 100% | 23.4 | 23.8 | 0.4 | 102% |
| | KENT | 43.5 | 38.0 | -5.5 | 87% | 43.5 | 38.0 | -5.5 | 87% | 11.8 | 11.1 | -0.7 | 94% | 23.2 | 24.4 | 1.2 | 105% |
| | QUEEN ANNES | 43.3 | 39.8 | -3.5 | 92% | 43.3 | 39.8 | -3.5 | 92% | 11.7 | 10.8 | -0.9 | 92% | 23.0 | 25.1 | 2.1 | 109% |
| | SOMERSET | 43.2 | 35.4 | -7.8 | 82% | 43.2 | 35.4 | -7.8 | 82% | 12.5 | 11.0 | -1.5 | 88% | 22.9 | 20.8 | -2.1 | 91% |
| | TALBOT | 44.0 | 41.2 | -2.8 | 94% | 44.0 | 41.2 | -2.8 | 94% | 11.9 | 10.8 | -1.1 | 91% | 23.4 | 26.3 | 2.9 | 112% |
| | WICOMICO | 44.0 | 42.0 | -2.0 | 95% | 44.0 | 42.0 | -2.0 | 95% | 12.3 | 12.9 | 0.6 | 105% | 23.2 | 24.7 | 1.5 | 106% |
| | WORCESTER | 44.3 | 36.6 | -7.7 | 83% | 44.3 | 36.6 | -7.7 | 83% | 12.6 | 10.2 | -2.4 | 81% | 23.0 | 20.6 | -2.4 | 90% |
| Regional Average | 43.7 | 38.9 | -4.9 | 89% | 43.7 | 38.9 | -4.9 | 89% | 12.1 | 11.3 | -0.8 | 94% | 23.2 | 23.9 | 0.7 | 103% | |
| INDEPENDENT CITY OF BALTIMORE | | 45.6 | 41.0 | -4.6 | 90% | 45.6 | 41.0 | -4.6 | 90% | 11.9 | 13.5 | 1.6 | 113% | 23.9 | 26.5 | 2.6 | 111% |
| Statewide Average | | 43.6 | 39.6 | -4.0 | 91% | 43.6 | 39.6 | -4.0 | 91% | 11.7 | 12.2 | 0.5 | 104% | 23.2 | 25.0 | 1.8 | 108% |

WY¹ - USGS Water Year, which begins October 1

Stream Flow Status Based on Thirty Day Average for 2022-September-30

| Region | Stream Gage Location | Notes | Status Based on 30 Day Average | | |
|---------|--------------------------------------|-------|--------------------------------|------------|--------|
| | | | 30 Day Average (cfs) | Percentage | Status |
| Western | Youghiogheny (near Oakland) | | 110 | 75%-80% | Normal |
| Western | Savage River (near Barton) | | 11.4 | 60%-65% | Normal |
| Western | Wills Creek (near Cumberland) | | 59 | 60%-65% | Normal |
| Western | Marsh Run (at Grimes) | | 6.2 | 60%-65% | Normal |
| Central | Catoctin Creek (near Middletown) | | 22.6 | 65%-70% | Normal |
| Central | Monocacy (Jug Bridge near Frederick) | | 221 | 50%-55% | Normal |
| Central | Patuxent (near Unity) | | 19.3 | 65%-70% | Normal |
| Central | Deer Cr (at Rocks) | | 65.8 | 40%-45% | Normal |
| Eastern | Choptank (near Greensboro) | | 22.2 | 35%-40% | Normal |
| Eastern | Nassawango Creek (near Snow Hill) | | 6.8 | 40%-45% | Normal |
| | Susquehanna (at Marietta) | | 14,894 | 70%-75% | Normal |
| | Potomac (at Little Falls)(Adjusted) | | 4,192 | 65%-70% | Normal |

Notes:

| Ground Water Status for 30 September 2022 | | | | |
|---|-----------------------|---------------|-------------|--------|
| Region | USGS Well ID | Well Level[1] | Status | |
| Western | GA Bc 1 | 14.12 | Normal | Normal |
| | AL Ah 1 | 4.76 | Normal | |
| | WA Be 2 | 34.49 | Normal | |
| | WA Bk 25 | 47.18 | Normal | |
| Central | BA Dc 444 | 39.70 | Normal | Normal |
| | BA Ea 18 | 24.59 | Watch | |
| | HA Bd 31 | 12.01 | Normal | |
| | HA Ca 23 | 8.32 | Watch | |
| | MO Cc 14 | 34.57 | Normal | |
| Eastern | QA Cg 69 | 5.31 | Normal | Watch |
| | WI Cg 20 | 7.48 | Normal | |
| | MC51-01 | 14.36 | Watch | |
| | SO Cf 2 | 6.22 | Emergency | |
| Southern | CH Bg 12 (unconfined) | 7.69 | Normal | 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 2022-10-07 [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:

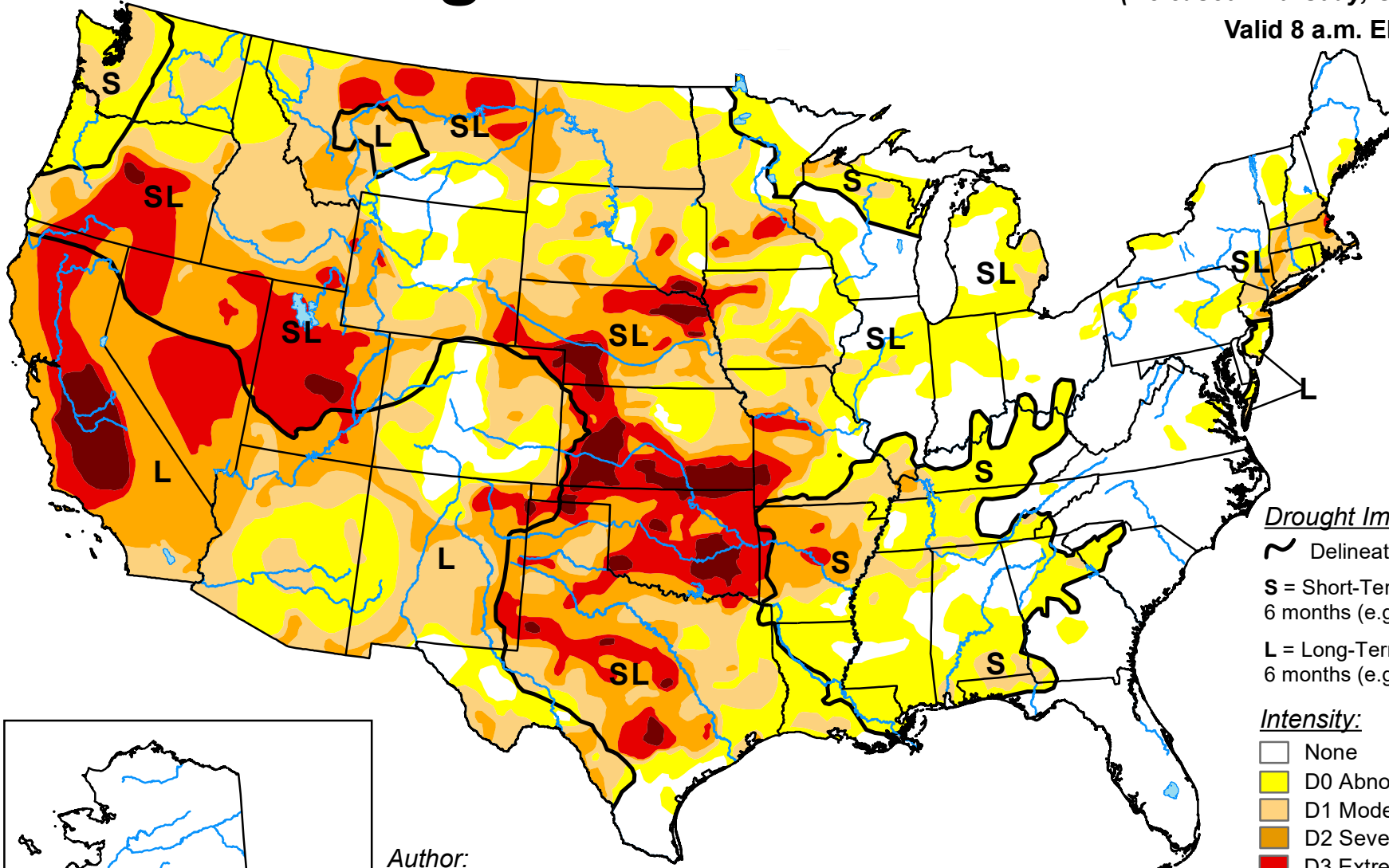
[USGS - NWIS Web Information for USA](http://www.water.usgs.gov/nwis/)

U.S. Drought Monitor

October 4, 2022

(Released Thursday, Oct. 6, 2022)

Valid 8 a.m. EDT

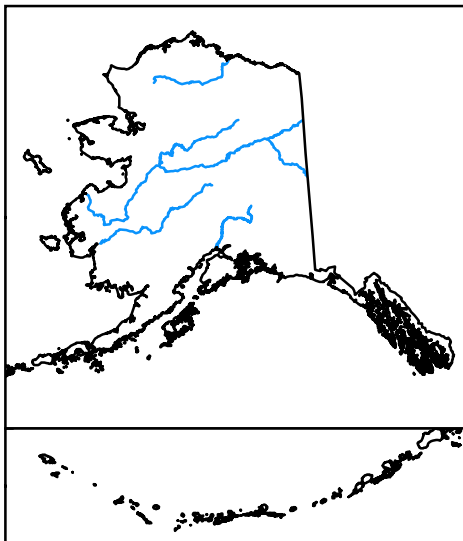


Drought Impact Types:

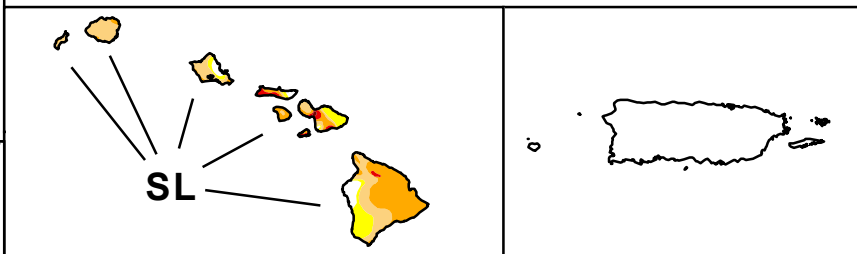
- Delineates dominant impacts
- S** = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
- L** = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

Intensity:

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



Author:
Brad Pugh
CPC/NOAA



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

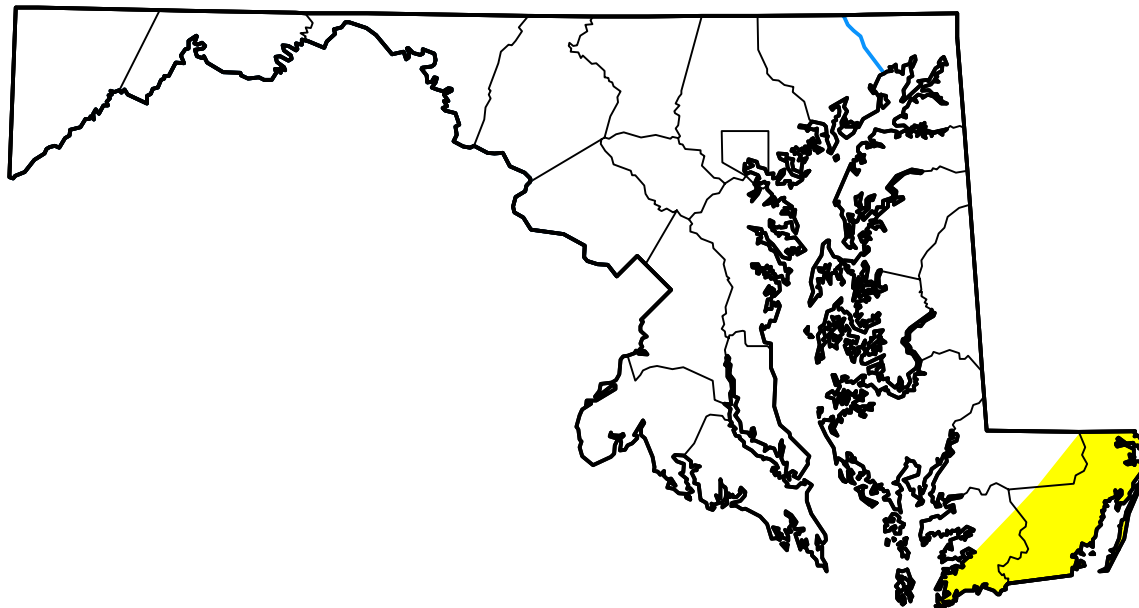
U.S. Drought Monitor

Maryland

October 4, 2022
 (Released Thursday, Oct. 6, 2022)
 Valid 8 a.m. EDT

Drought Conditions (Percent Area)

| | None | D0-D4 | D1-D4 | D2-D4 | D3-D4 | D4 |
|--|--------|-------|-------|-------|-------|------|
| Current | 93.24 | 6.76 | 0.00 | 0.00 | 0.00 | 0.00 |
| Last Week <i>09-27-2022</i> | 65.82 | 34.18 | 6.75 | 0.00 | 0.00 | 0.00 |
| 3 Months Ago <i>07-05-2022</i> | 94.10 | 5.90 | 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>09-27-2022</i> | 65.82 | 34.18 | 6.75 | 0.00 | 0.00 | 0.00 |
| One Year Ago <i>10-05-2021</i> | 100.00 | 0.00 | 0.00 | 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:

Brad Pugh
 CPC/NOAA



droughtmonitor.unl.edu