



Drought Information Statement for the ArkLaMiss Region

Valid October 25, 2023

Issued By: WFO Jackson, MS

Contact Information: sr-jan.webmaster@noaa.gov

- This product will be updated November 10, 2023 or sooner if drought conditions change significantly.
- Please see all currently available products at <https://drought.gov/drought-information-statements>.
- Please visit <https://www.weather.gov/jan/DroughtInformationStatement> for previous statements.



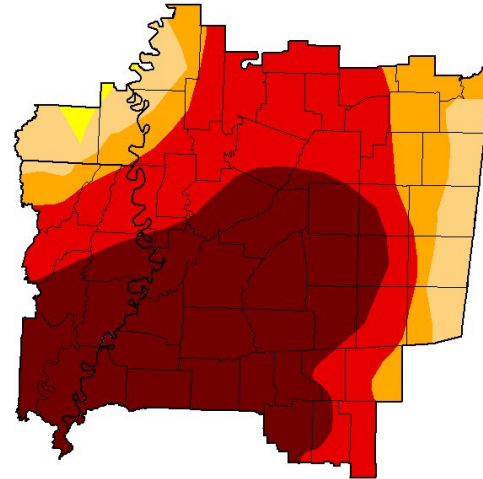


U.S. Drought Monitor

Link to the [latest U.S. Drought Monitor](#) for the ArkLaMiss Region

- EXTREME TO EXCEPTIONAL DROUGHT CONDITIONS CONTINUE TO WORSEN
- Drought intensity and Extent
 - D4 (Exceptional Drought): Coverage includes large portions of central & southern MS & northeast LA
 - D3 (Extreme Drought): Coverage includes more of northeast LA & central & northern MS
 - D2 (Severe Drought): Coverage includes more of northeast LA, southeast AR & northwestern & eastern MS
 - D1 (Moderate Drought): Coverage includes only extreme northwestern MS & majority of southeast AR
 - D0: (Abnormally Dry): Limited coverage in southeast AR

U.S. Drought Monitor Jackson, MS WFO



October 17, 2023
(Released Thursday, Oct. 19, 2023)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	99.45	88.64	75.54	43.81
Last Week 10-10-2023	0.55	99.45	94.19	79.07	67.11	41.94
3 Months Ago 07-18-2023	77.81	22.19	0.51	0.00	0.00	0.00
Start of Calendar Year 01-01-2023	54.55	45.45	0.00	0.00	0.00	0.00
Start of Water Year 09-26-2023	1.02	98.18	84.39	71.69	58.13	27.97
One Year Ago 10-18-2022	7.94	92.06	38.15	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

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droughtmonitor.unl.edu

Image Caption: U.S. Drought Monitor valid 7am CDT October 17th.





Recent Change in Drought Intensity

Link to the latest [4-week change map](#) for the ArkLaMiss Region

- Four Week Drought Monitor Class Change.
 - Drought Worsened: There was a general worsening across northern to eastern portions of the region over the last few weeks. The most significant changes, some 2-3 class degradation, have been across portions of southeast AR & northern to eastern MS, where rainfall deficits have persisted.
 - No Change: Large portions of central & southern MS & northeast LA have remained mostly unchanged, with continued extreme to exceptional drought intensity
 - Drought Improved: None

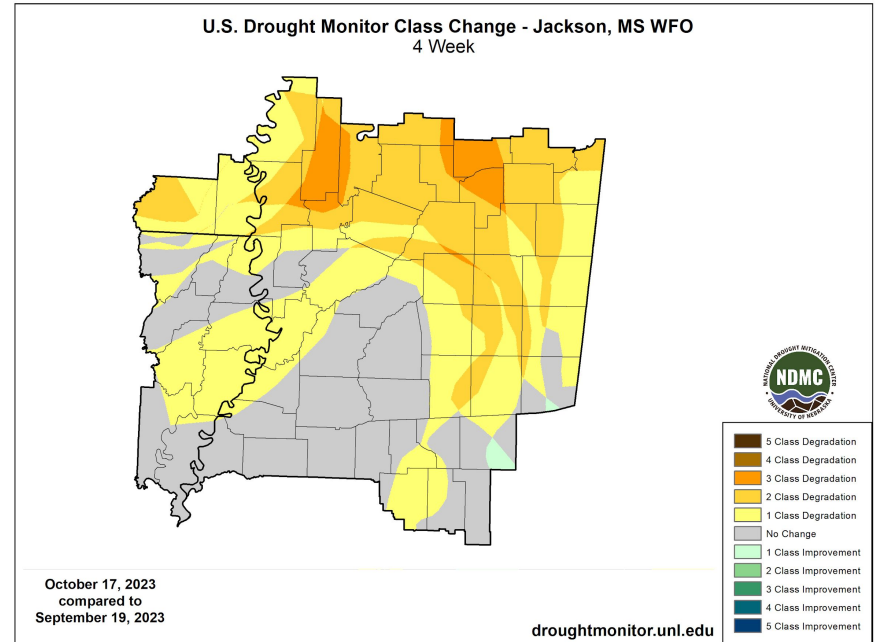


Image Caption: U.S. Drought Monitor 4-week change map valid 7am CDT October 17th

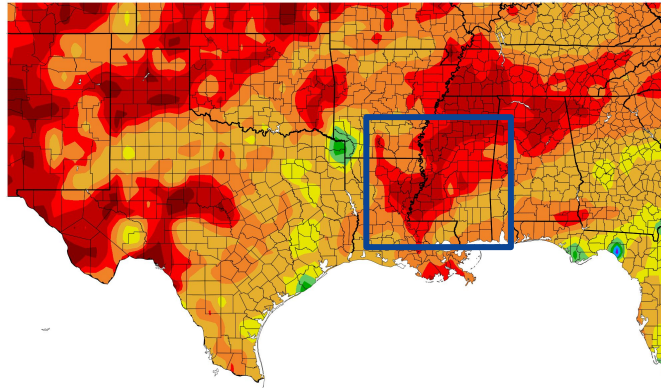




Precipitation

- Over the last 30 days most locations received less than 2 inches of rain.
- For a majority the area, this was less than 25% of normal rainfall for this time of year.

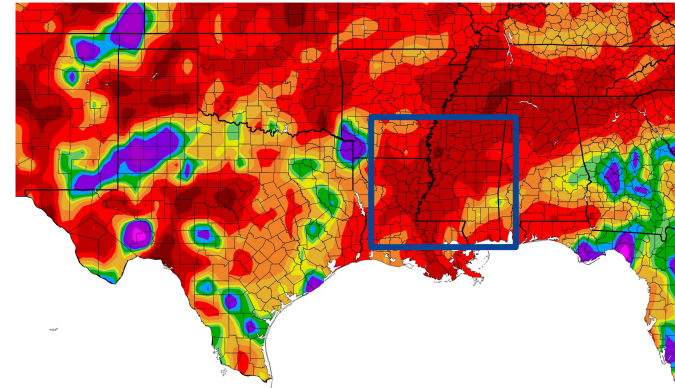
Precipitation (in)
9/25/2023 - 10/24/2023



generated 10/25/2023 at HPRCC using provisional data.

NOAA Regional Climate Center

Percent of Normal Precipitation (%)
9/25/2023 - 10/24/2023



NOAA Regional Climate Center

Image Captions:
Left - Precipitation Amount for WFO Jackson, MS
Right - Percent of Normal Precipitation for WFO Jackson, MS
Data Courtesy High Plains Regional Climate Center.
Data over the past 30 days ending 10/24/2023

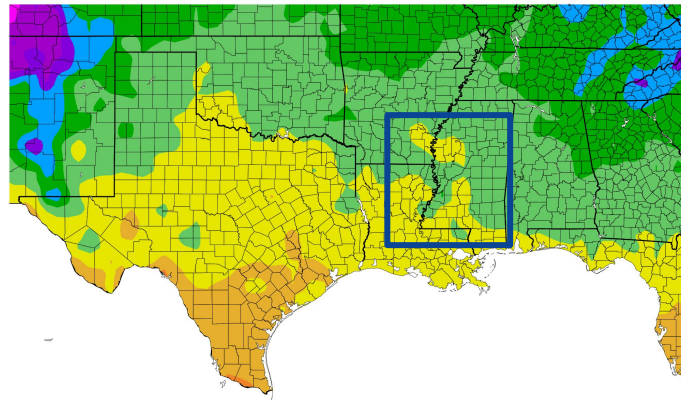




Temperature

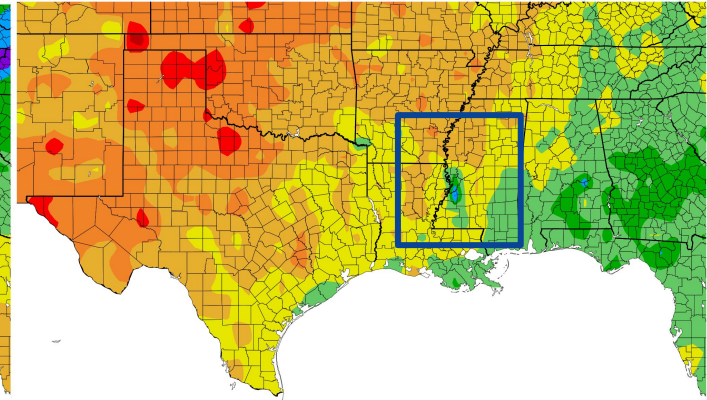
- Over the last 30 days, average temperatures were mostly between 65 to 75 degrees.
- This was around 2-4 degrees above normal for the ArkLaMiss region.
- This above normal heat has added to drought stress of crops and vegetation, as well as evaporation of soil moisture and surface water.

Temperature (F)
9/25/2023 - 10/24/2023



erated 10/25/2023 at HPRCC using provisional data.

Departure from Normal Temperature (F)
9/25/2023 - 10/24/2023



NOAA Regional Climate Center generated 10/25/2023 at HPRCC using provisional data.

NOAA Regional Climate Center

Image Captions:
Left - Average Temperature
Right - Departure from Normal Temperature
Data Courtesy High Plains Regional Climate Center.
Data over the past 30 days ending 10/24/2023





Hydrologic Conditions and Impacts

- Over the past week, area streamflows have ranged from normal to below normal for most of the region.
- Several rivers in the region have streamflows at levels much below normal.
- Area pond storage are falling to below normal levels.

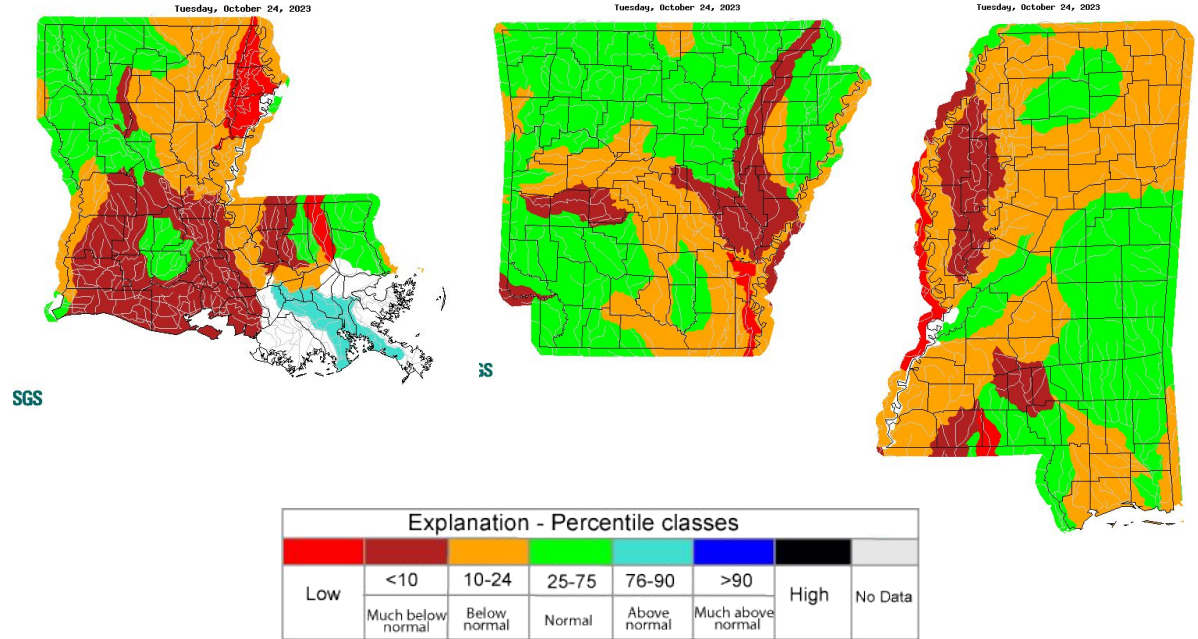


Image Caption: USGS 7-day average streamflow HUC maps valid 10/24/2023





Agricultural Impacts

- Soil moisture depletion continues to worsen across much of the area.
- Crop yields remain severely affected including: reductions of cotton production by up to 90% in some portions of southern Mississippi, and loss of young pine trees on pine plantations.
- Regional cattle have been transitioned to early hay feeding where pastures are stressed.

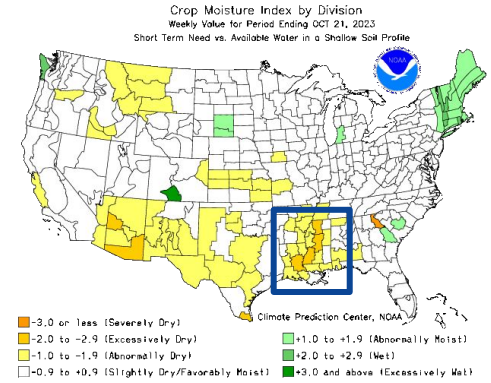
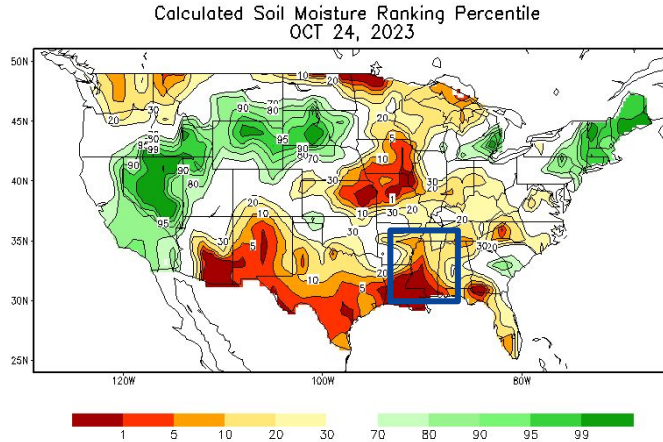


Image Captions:

Left: CPC Calculated [Soil Moisture Ranking Percentile](#) valid October 23rd, 2023.

Right: [Crop Moisture Index by Division](#). Weekly value for period ending October 21st, 2023.





Fire Hazard Impacts

Link to [Wildfire Potential Outlooks from the Southern Area Coordination Center](#)

- Extremely high values of the Keetch-Byram Drought Index indicate forest litter will continue to aid fire intensity.
 - The outlook for significant wildfire potential through the end of October remains above normal.
 - Burn bans remain in place across the region.
- Latest maps for burn bans in: [MS](#), [LA](#), [AR](#).

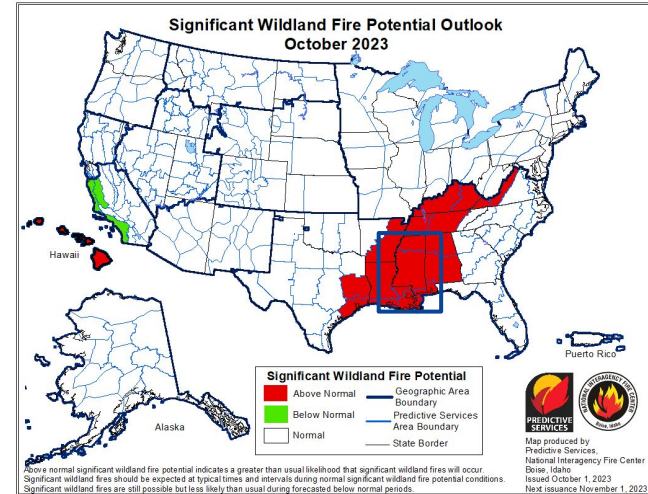
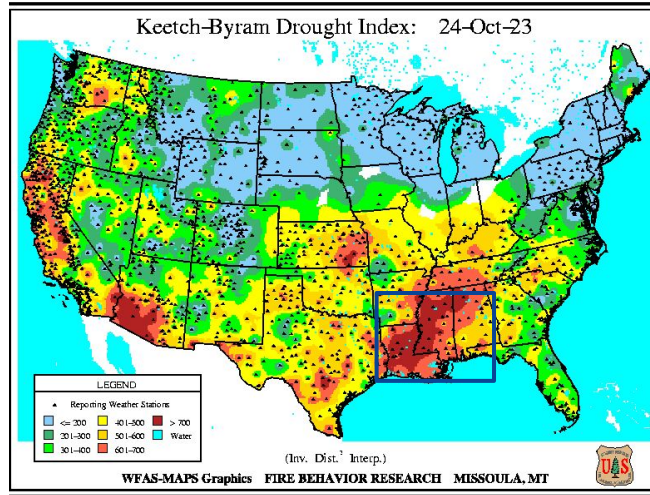


Image Captions:

Left: [Latest Keetch-Byram Drought Index valid 10/24/2023.](#)

Right: [Significant Wildland Fire Potential Monthly Outlook](#) for October 2023.





Seven Day Precipitation Forecast

- A cold front moving through the region around October 30 will bring a chance for showers, mainly across northwestern areas.
- Portions of northwestern portions of the ArkLaMiss region could see around a 0.50 inches of precipitation, with much drier conditions to the southeast.
- No significant relief is expected within the following week across the drought stricken areas.

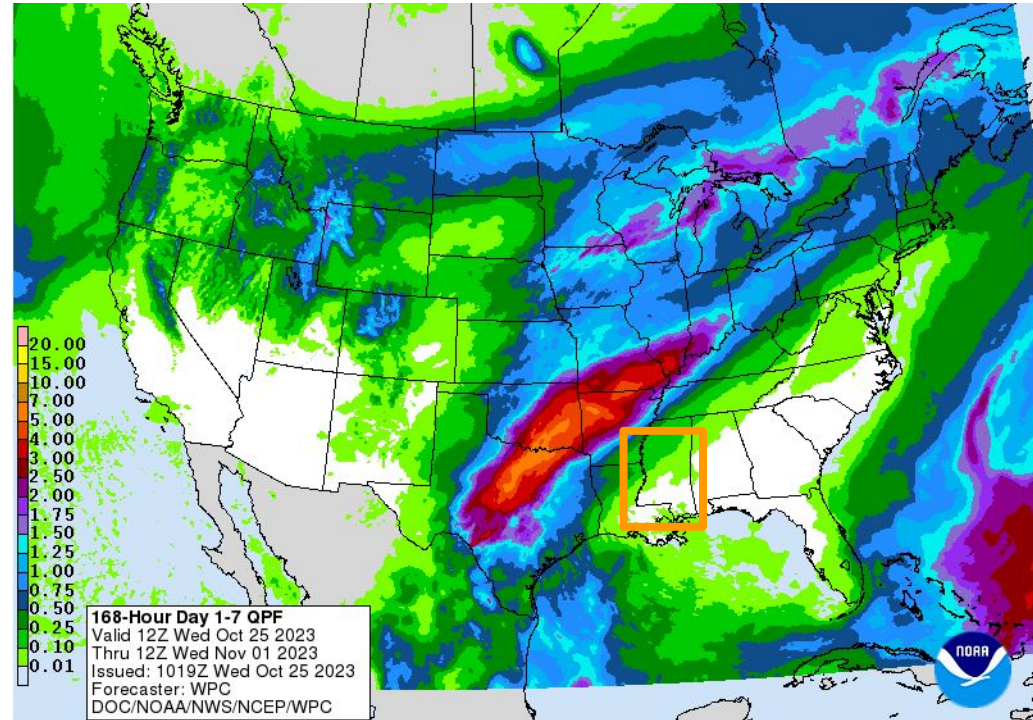


Image Caption: Weather Prediction Center [7-day precipitation forecast](#) valid Wednesday, October 25th to Wednesday, November 1st





Summary of Impacts

Links: See/submit [Condition Monitoring Observer Reports \(CMOR\)](#) and view the [Drought Impacts Reporter](#).

Hydrologic Impacts

- Low streamflows continue to affect several rivers and pond water storage in the region, which could negatively impact recreational activities.

Agricultural Impacts

- Significant to extreme impacts to agricultural producers are being felt in the region including substantial reductions in crop output and additional feeding requirements for livestock.

Fire Hazard Impacts

- Dead and drought stressed vegetation is contributing to increased wildfire intensity.

Other Impacts

- Please submit observed impacts using the CMOR app. More information available [here](#).

Mitigation Actions

- Please refer to your municipality and/or water provider for mitigation information.





Long-Range Outlooks

The latest monthly and seasonal outlooks can be found on the [CPC homepage](#).

- The pattern over the next month will continue to favor warmer than normal temperatures with slightly above normal precipitation chances, mainly over southern portions of the region.
- These increased precipitation chances could begin to bring some beneficial rain to the most extreme to exceptionally dry areas.

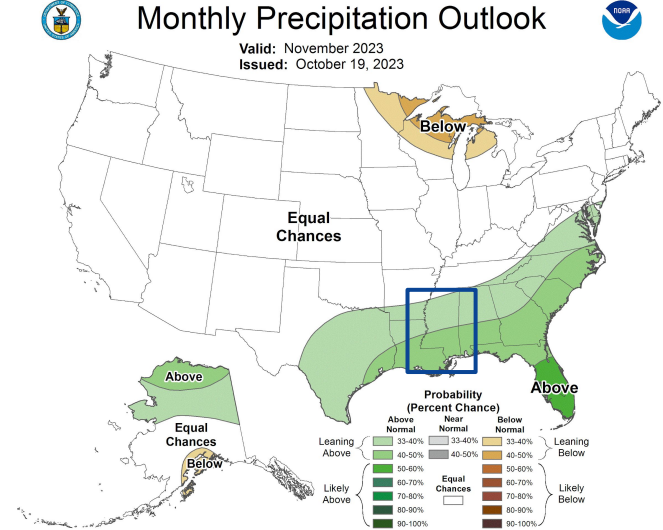
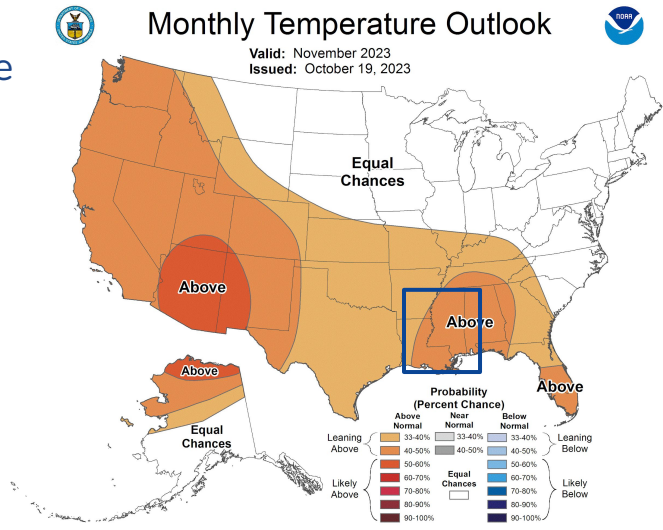


Image Captions:
 Left - [Climate Prediction Center Monthly Temperature Outlook](#),
 Right - [Climate Prediction Center Monthly Precipitation Outlook](#),
 Valid November 2023



Drought Outlook

The latest monthly and seasonal outlooks can be found on the [CPC homepage](#).

- Drought conditions are expected to continue to worsen across the region through the end of October.
- Drought conditions will persist over the next several months but expected to improve well into the winter months.

U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period

Valid for October 19, 2023 - January 31, 2024
Released October 19, 2023

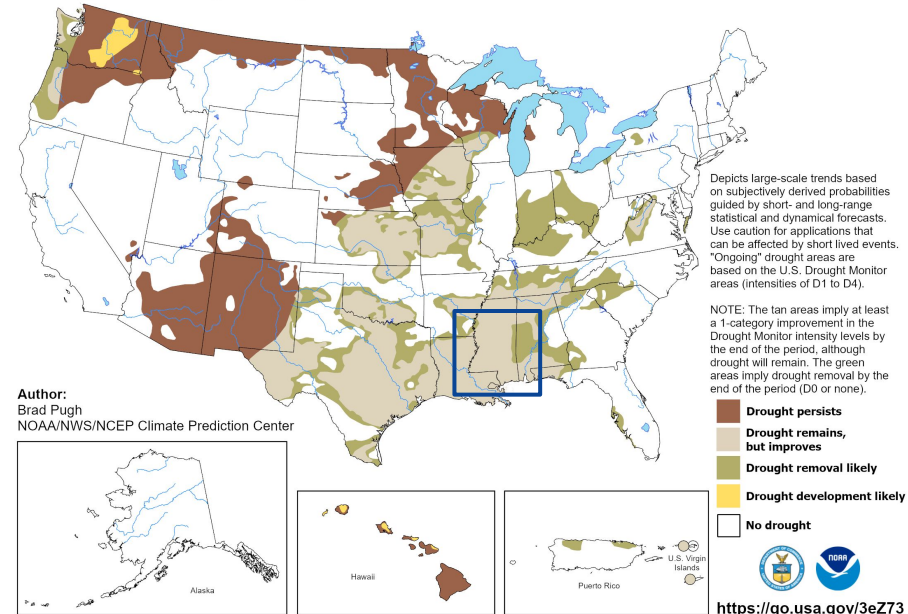


Image Caption:

Climate Prediction Center Seasonal Drought Outlook Released October 19, 2023 valid for October 2023 - January 2024

Links to the latest:

- [Climate Prediction Center Monthly Drought Outlook](#)
- [Climate Prediction Center Seasonal Drought Outlook](#)

