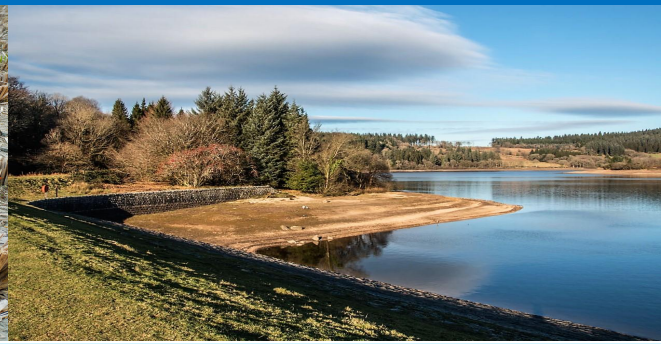
# Drought Information Statement for the ArkLaMiss Region

## Valid November 3, 2023

Issued By: WFO Jackson, MS

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

- This product will be updated November 17, 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.

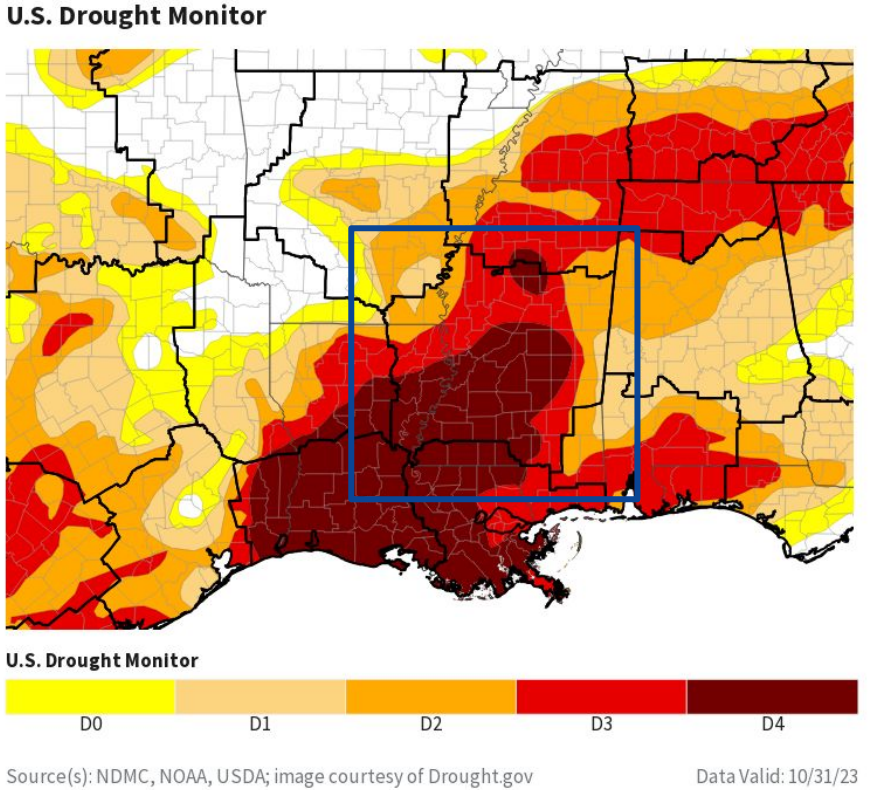


# U.S. Drought Monitor

Link to the latest U.S. Drought Monitor for the ArkLaMiss Region

- SEVERE TO EXCEPTIONAL DROUGHT CONDITIONS CONTINUE TO WORSEN

- Drought intensity and Extent
  - D4 (Exceptional Drought): Coverage includes large portions of central and southern MS & northeast LA
  - D3 (Extreme Drought): Coverage includes much of MS & portions of northeast LA
  - D2 (Severe Drought): Coverage includes southeast AR & eastern MS
  - D1 (Moderate Drought): Coverage includes portions of southeast AR & far eastern MS
  - D0: (Abnormally Dry): None in the area of concern



# 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 has been a general worsening of drought conditions in the region, with 1- and 2-class degradations across areas mainly north of Interstate 20.
  - No Change: Portions of central and southern MS & northeast LA have remained mostly unchanged, with continued severe to exceptional drought intensity.
  - Drought Improved: Portions of far southeast Mississippi.

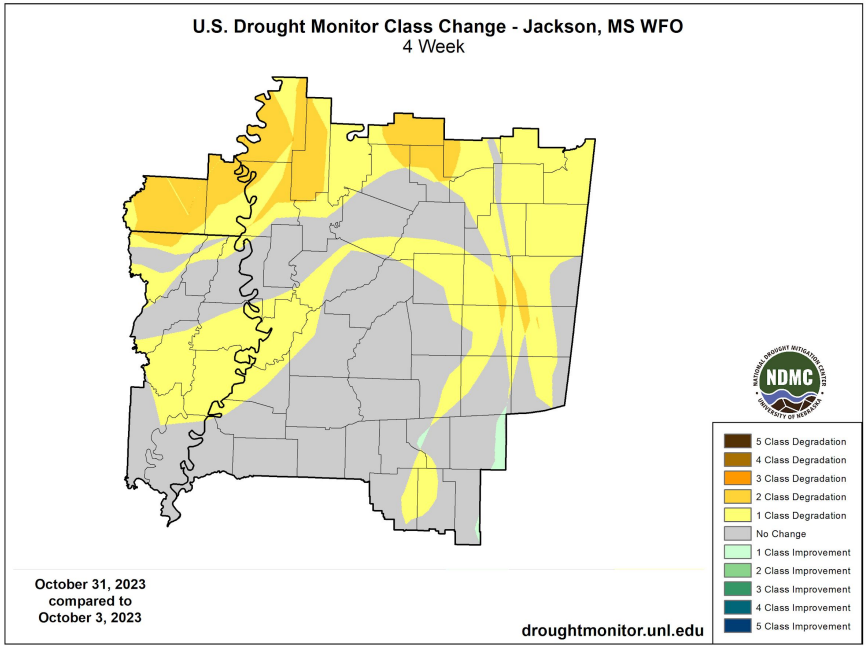
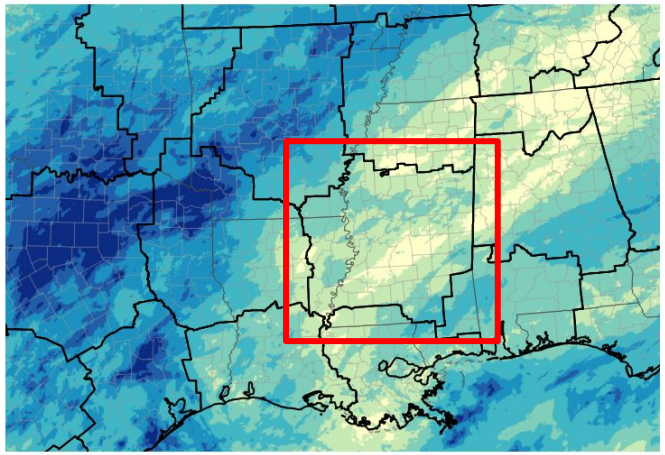



Image Caption: U.S. Drought Monitor 4-week change map valid 7am CDT October 31st

# Precipitation

- Over the last 30 days most locations received less than 1 inch of rain, and some areas received less than half an inch.
- For a majority the area, this was less than 25% of normal rainfall for this time of year.

**30-Day Precipitation Accumulations (Inches)**



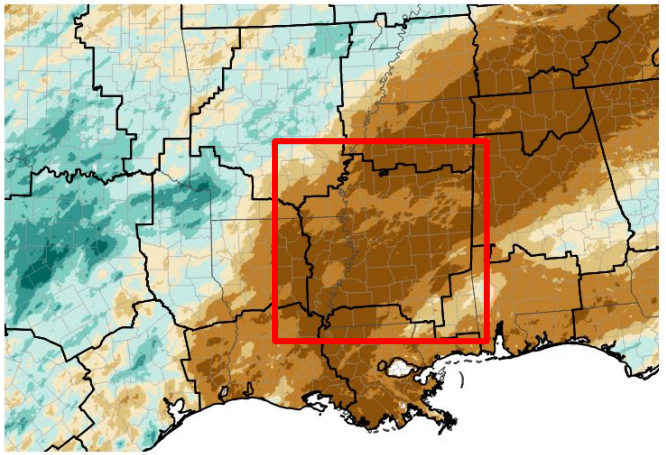
Inches of Precipitation

0 0.01 0.5 1 2 4 6 8

Source(s): National Weather Service Multi-Radar Multi-Sensor System; image courtesy of Drought.gov

Last Updated: 11/03/23

**30-Day Percent of Normal Precipitation**



Percent of Normal Precipitation (%)

0% 25% 50% 75% 100%

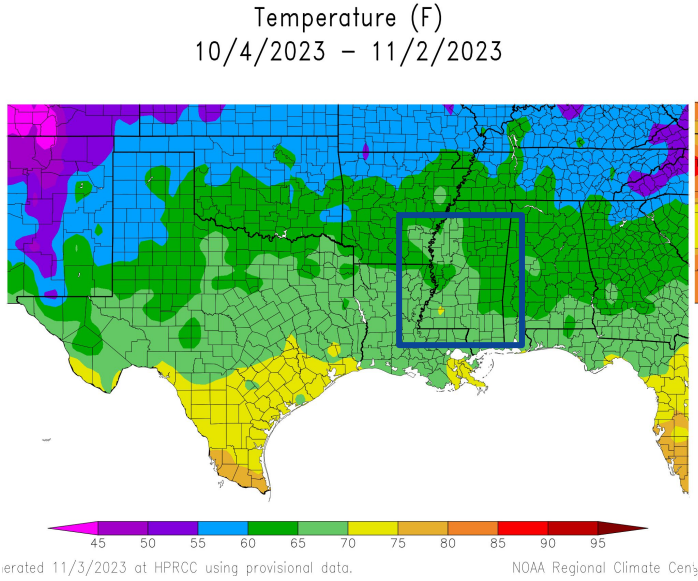
100% 150% 200% 300%

Source(s): National Weather Service Multi-Radar Multi-Sensor System; image courtesy of Drought.gov

Last Updated: 11/03/23

# Temperature

- Over the last 30 days, average temperatures were between 60 to 70 degrees.
- These were mostly within about 2 degrees of normal for this time of year.



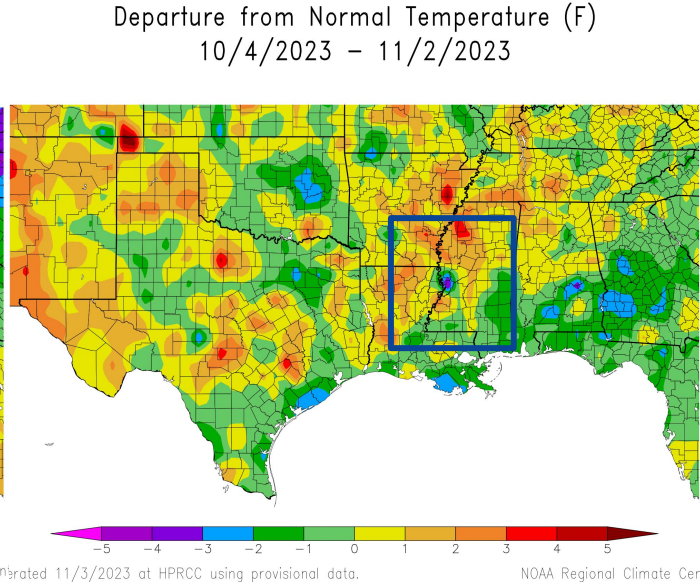




Image Captions:
Left - Average Temperature
Right - Departure from Normal Temperature
Data Courtesy High Plains Regional Climate Center.
Data over the past 30 days ending 11/2/2023

# Hydrologic Conditions and Impacts

- Over the past week, area streamflows across most of the region were at below to much below normal levels.
- Area pond storage also continues to suffer, with pond levels lower than normal or dry.

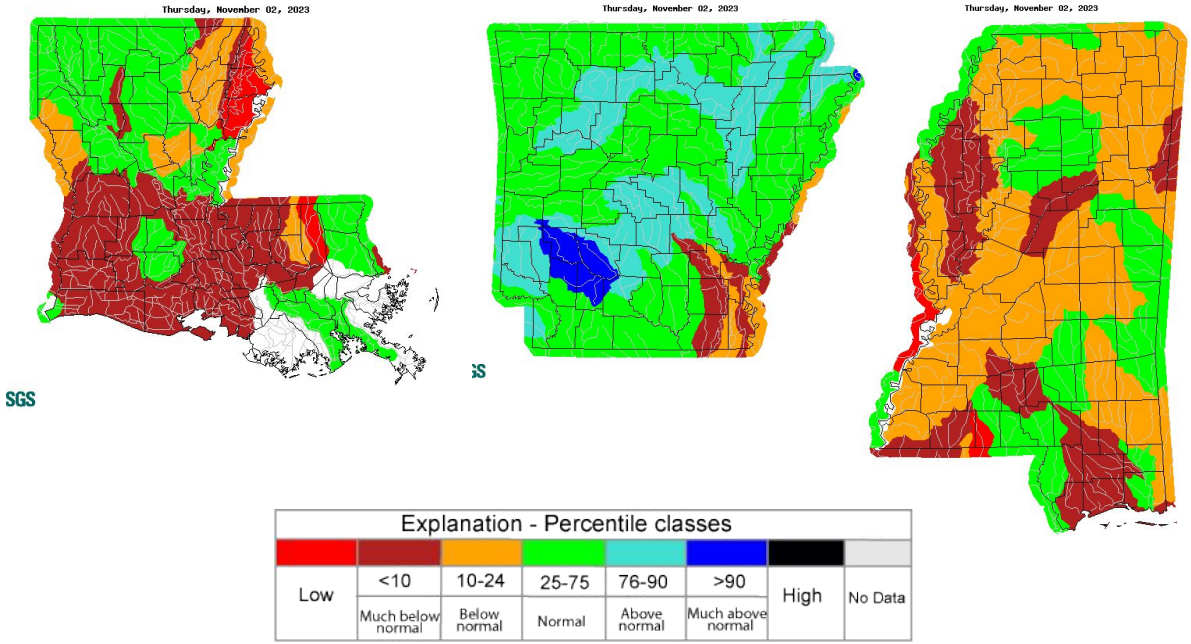
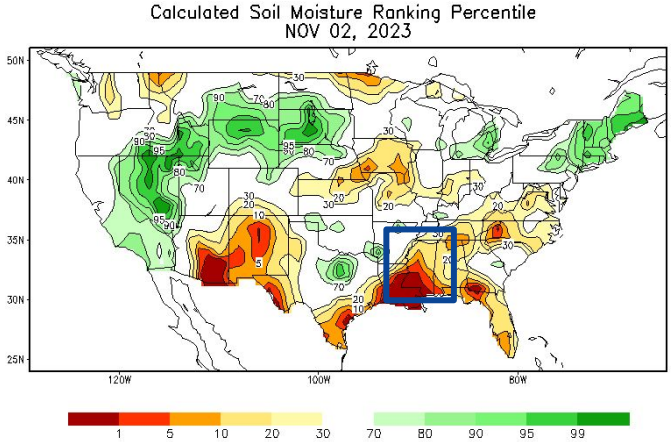



Image Caption: USGS 7-day average streamflow HUC maps valid 11/2/2023.

# Agricultural Impacts

- Soil moisture depletion continues to worsen across much of the area.
- Crop yields were severely affected including reductions of cotton production by up to 90% in some portions of southern Mississippi and severe loss of young pine trees on pine plantations.
- Supplemental feeding for cattle began early across the region.



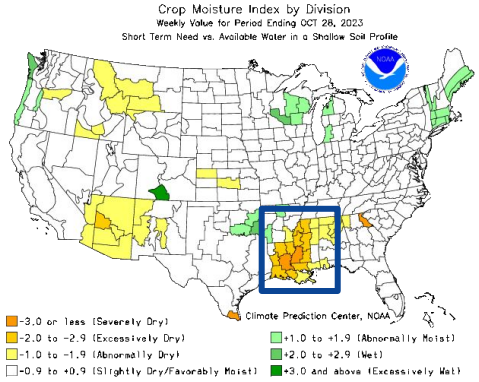
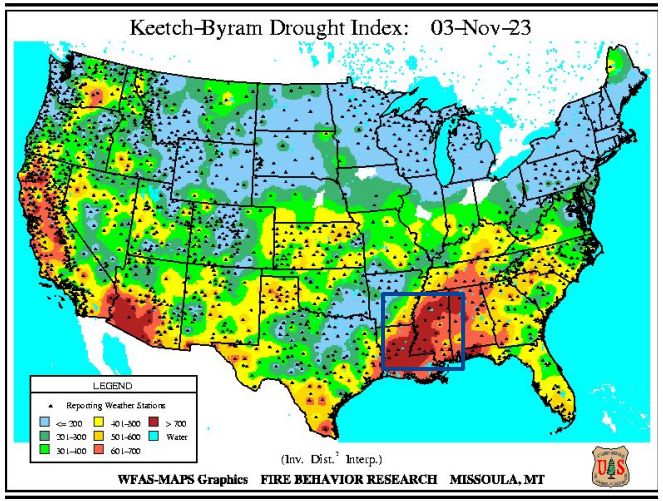




Image Captions:
Left: CPC Calculated Soil Moisture Ranking Percentile valid October 23rd, 2023.
Right: Crop Moisture Index by Division. Weekly value for period ending October 21st, 2023.

# Fire Hazard Impacts

Link to Wildfire Potential Outlooks from the Southern Area Coordination Center

- Record high values of the KBDI indicate potential for extreme fire intensity in forested areas.
- The outlook for significant wildfire potential through the end of November remains above normal.
- Burn bans remain in place across the region.
  Latest maps for burn bans in: MS, LA, AR.



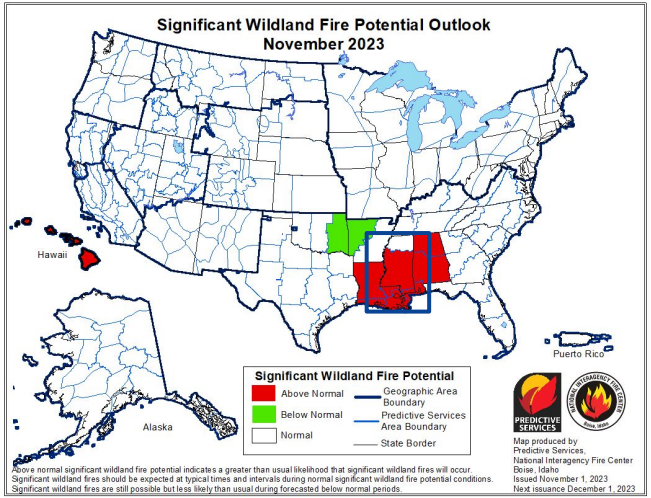




Image Captions:
Left: Latest Keetch-Byram Drought Index valid 11/2/2023.
Right: Significant Wildland Fire Potential Monthly Outlook for November 2023.

# Seven Day Precipitation Forecast

- A cold front moving through the region around November 9th and 10th will bring a chance for rain.
- Average rain amounts will generally be less than 0.10”.
- No significant drought relief is expected within the following week across the WFO Jackson, MS forecast area.

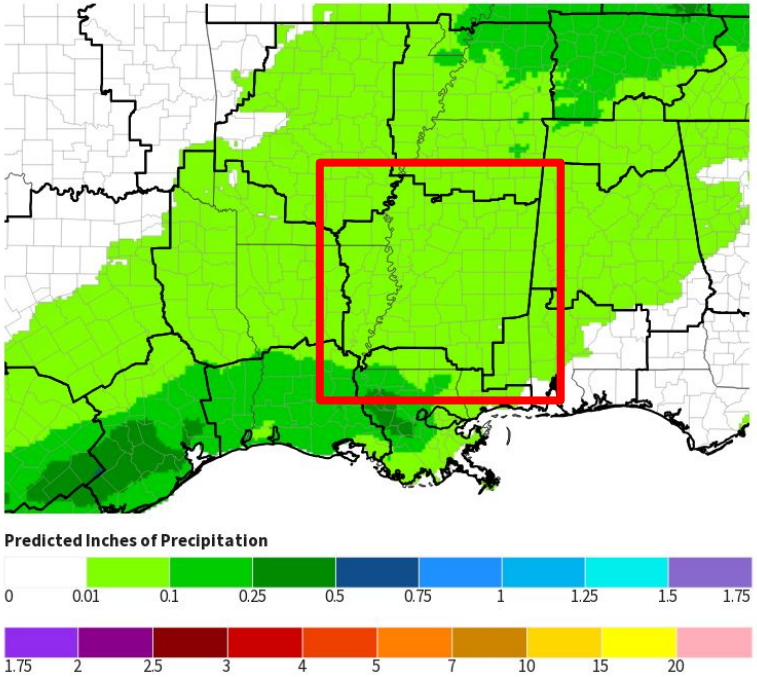



Image Caption: Weather Prediction Center 7-day precipitation forecast valid Saturday, November 4th to Friday, November 10th

# Summary of Impacts

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

## Hydrologic Impacts

- Low streamflows continue to affect most area rivers, and pond storage levels are decreased across the region, which are negatively impacting recreational and agricultural activities.

## Agricultural Impacts

- Significant impacts are being felt by agricultural producers in the region including substantial reductions in crop output, tree death, and supplemental 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.

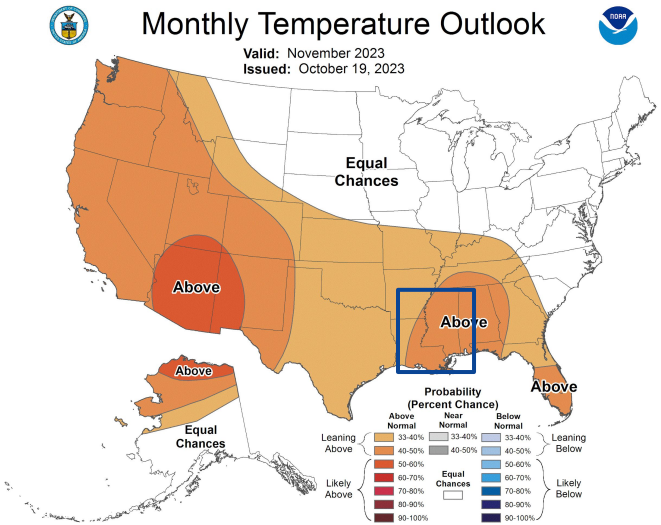
## Mitigation Actions

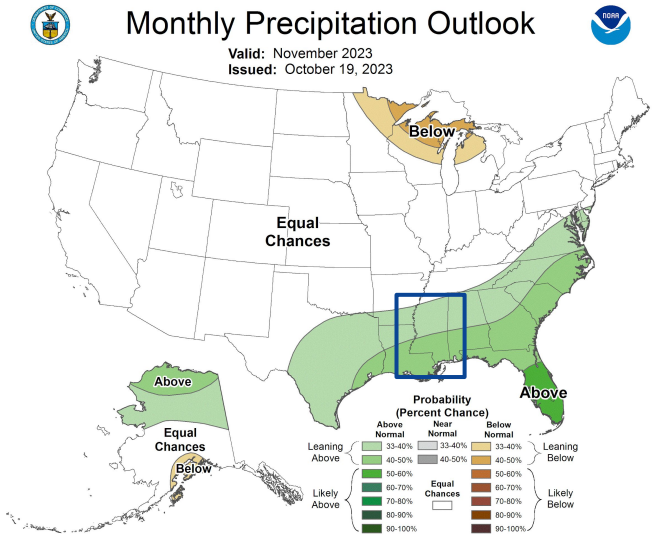
- Please refer to your municipality and/or water provider for mitigation information.

# Long-Range Outlooks

**The latest monthly and seasonal outlooks can be found on the CPC homepage.**

- The pattern over the next month will favor warmer than normal temperatures. Chances lean toward above normal precipitation especially closer to the Gulf Coast.
- These increased precipitation chances could begin to bring some beneficial rain to the most extreme to exceptionally dry areas.

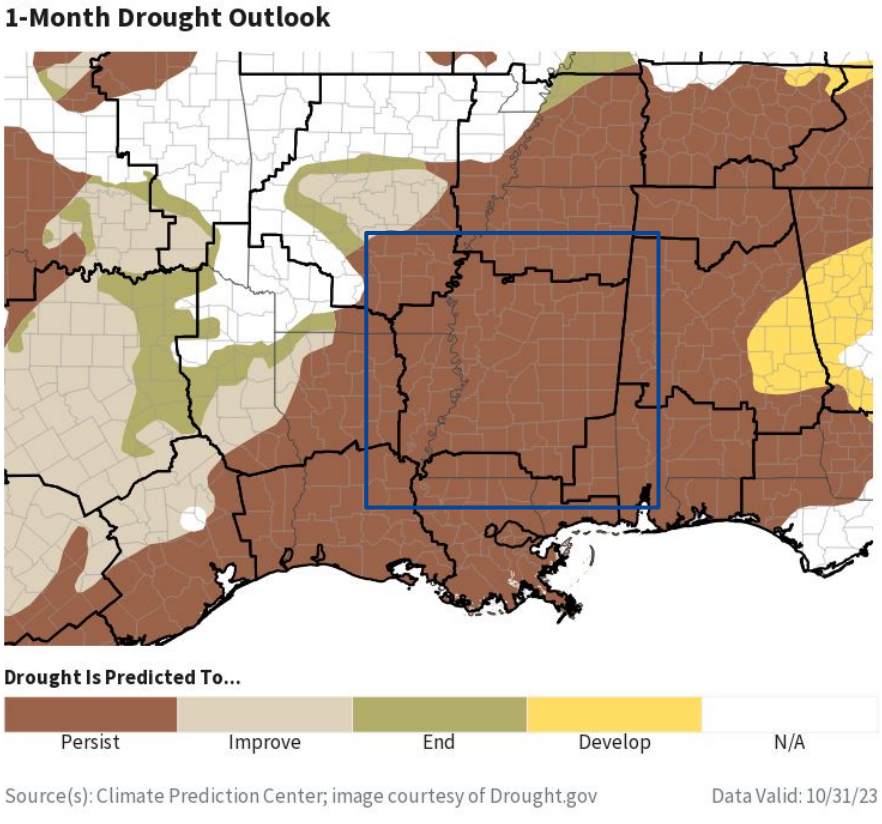


# Drought Outlook

**The latest monthly and seasonal outlooks can be found on the CPC homepage.**

- Drought conditions are expected to persist across the region through the end of November.




Links to the latest:
Climate Prediction Center Monthly Drought Outlook
Climate Prediction Center Seasonal Drought Outlook