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Tennessee Climate Office Weekly Drought Summaries

10-10-2024

2024 October 10 - Tennessee Weekly Drought Summary

Tennessee Climate Office, East Tennessee State University

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Tennessee Drought Update

For the assessment period ending October 8th, 2024

Statewide Condition Summary

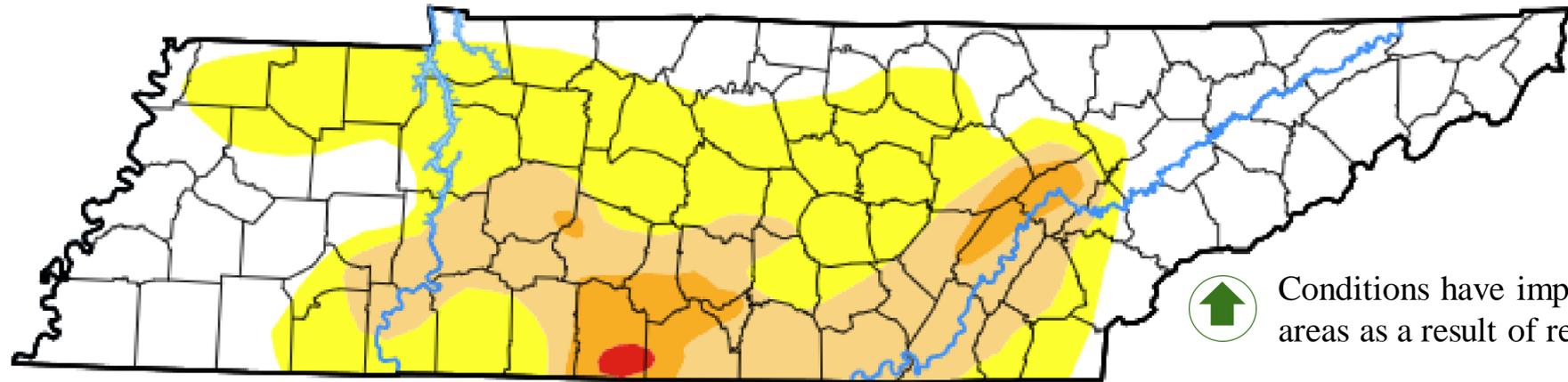
This Week's Drought Monitor of Tennessee Map

From the US Drought Monitor, authored by Richard Tinker, NOAA/NWS/NCEP/CPC with input from the Tennessee Climate Office

What's Changed? Despite the significant rainfall Tennessee received two weeks ago, some areas of the state are still in rainfall deficits from this summer. Areas across south-central Tennessee had been experiencing long-term drought conditions prior to the rainfall and did not receive as much as other areas of the state. Combined with above-average temperatures, this has led to streamflow and soil moisture levels decreasing across the lower half of the state.

What's New? The area of D0 along the TN-KY border has been reduced. D1/D2 conditions have expanded across multiple counties. An area of D3 conditions has been introduced in Giles and Lincoln counties.

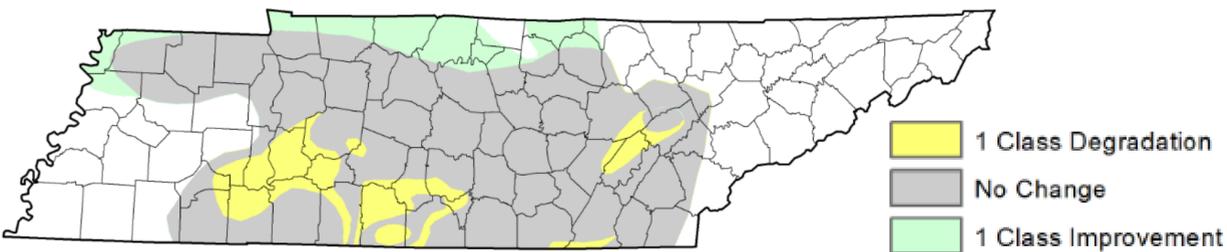
What's Next? Forecasts are predicting little to no rainfall across Tennessee over the next Drought Monitor Period along with warm daytime temperatures. The combination of no rainfall and warm days may further worsen conditions.



↑ Conditions have improved in northern areas as a result of recent rainfall

↓ Conditions have worsened in south-central Tennessee as a result of lack of rainfall and high temperatures

Change Since Last Week



A product of the Tennessee Climate Office
www.etsu.edu/tn-climate



Statewide Coverage By Category

| Category | Coverage This Week | Change Since Last Week |
|-------------------------|--------------------|------------------------|
| D0: Abnormally Dry | 33.56% | -11.34% |
| D1: Moderate Drought | 18.34% | +1.25% |
| D2: Severe Drought | 4.69% | +2.91% |
| D3: Extreme Drought | 0.34% | +0.34% |
| D4: Exceptional Drought | 0% | 0% |

Icon Library



No Precipitation



Increasing drought conditions



Rivers and Streams



Precipitation



Temperatures



Improvement



A mixture of improving and worsening conditions



No Change



Worsening conditions



Hurricane/Tropical storm

- 5 Class Degradation
- 4 Class Degradation
- 3 Class Degradation
- 2 Class Degradation
- 1 Class Degradation
- No Change
- 1 Class Improvement
- 2 Class Improvement
- 3 Class Improvement
- 4 Class Improvement
- 5 Class Improvement