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Tennessee Climate Office Weekly Drought Summaries

12-21-2023

2023 December 21 - Tennessee Weekly Drought Summary

Tennessee Climate Office, East Tennessee State University

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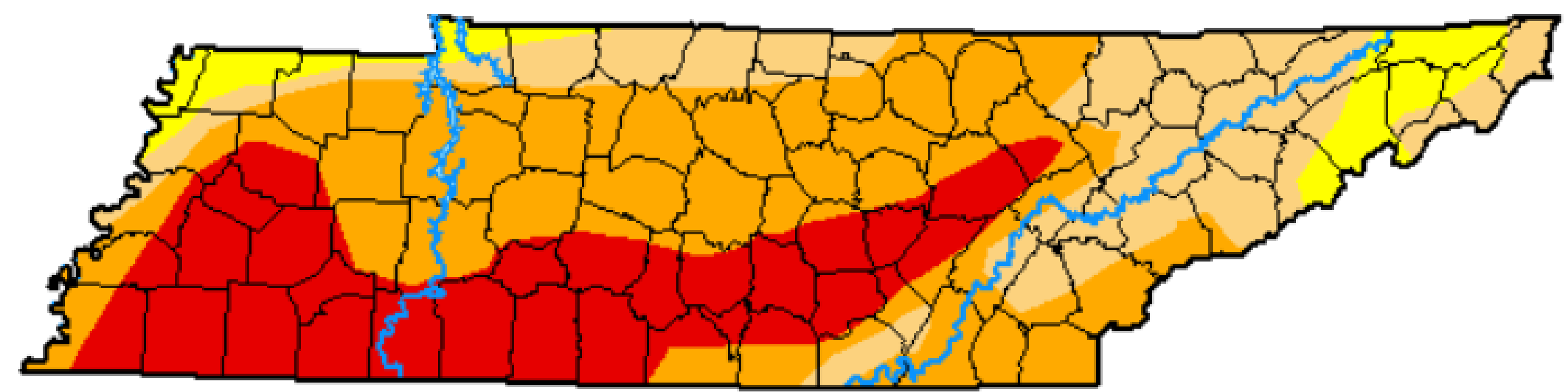
Tennessee Drought Update

For the assessment period ending December 19th, 2023

Statewide Condition Summary

This Week's Drought Monitor of Tennessee Map

From the US Drought Monitor, authored by Curtis Riganti, National Drought Mitigation Center with input from the Tennessee Climate Office



What's Changed? An area between Knoxville and Chattanooga saw 1 category improvements following ~0.5" of rainfall over the last monitoring period (Tuesday to Tuesday). Other parts of Tennessee, especially West Tennessee, missed out on any significant rainfall, resulting in a large area of 1 category degradation.

What's New? Most noticeably, D3 was extended back into West Tennessee with almost 30% of the state in Extreme Drought (a >10% increase from last week). Abnormally Dry (D0) conditions were added in northwest Tennessee as well.

What's Next? Over the next week, forecasts show good chances of rain across Tennessee, especially West, Middle, and southeast Tennessee with these areas possibly seeing up to 1" of rain. This may bring some relief to these areas, resulting in possible 1 category improvements.

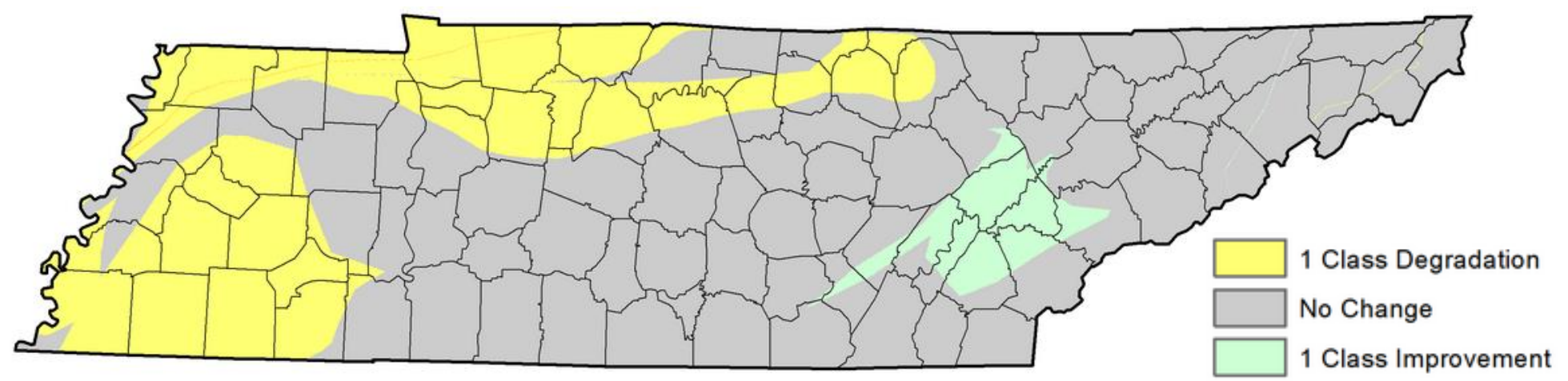
↓ Little to no rain across West TN and parts of Middle TN, resulting in 1 category degradation

↑ Recent rainfall leading to 1 category improvement between Knoxville and Chattanooga

Statewide Coverage By Category

Category	Coverage This Week	Change Since Last Week
D0: Abnormally Dry	6.78%	-1.07%
D1: Moderate Drought	23.21%	-2.05%
D2: Severe Drought	40.96%	-4.25%
D3: Extreme Drought	29.05%	+10.29%
D4: Exceptional Drought	0.00%	0.00%

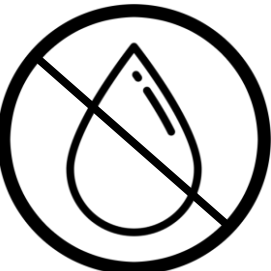
Change Since Last Week



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



Icon Library



No Precipitation



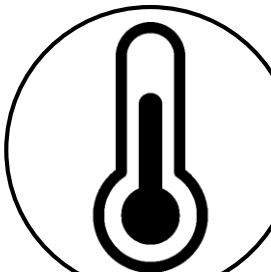
Increasing drought conditions



Rivers and Streams



Precipitation



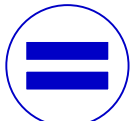
Temperatures



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