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Tennessee Climate Office Weekly Drought Summaries

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1-4-2024

### 2024 January 4 - Tennessee Weekly Drought Summary

Tennessee Climate Office, East Tennessee State University

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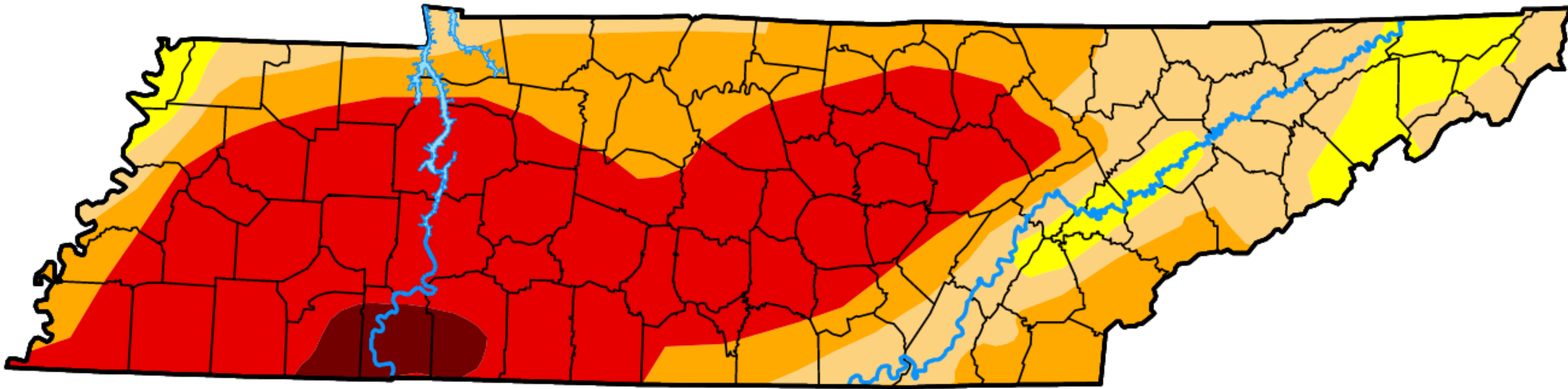
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# Tennessee Drought Update

For the assessment period ending January 2<sup>nd</sup>, 2024

## This Week's Drought Monitor of Tennessee Map

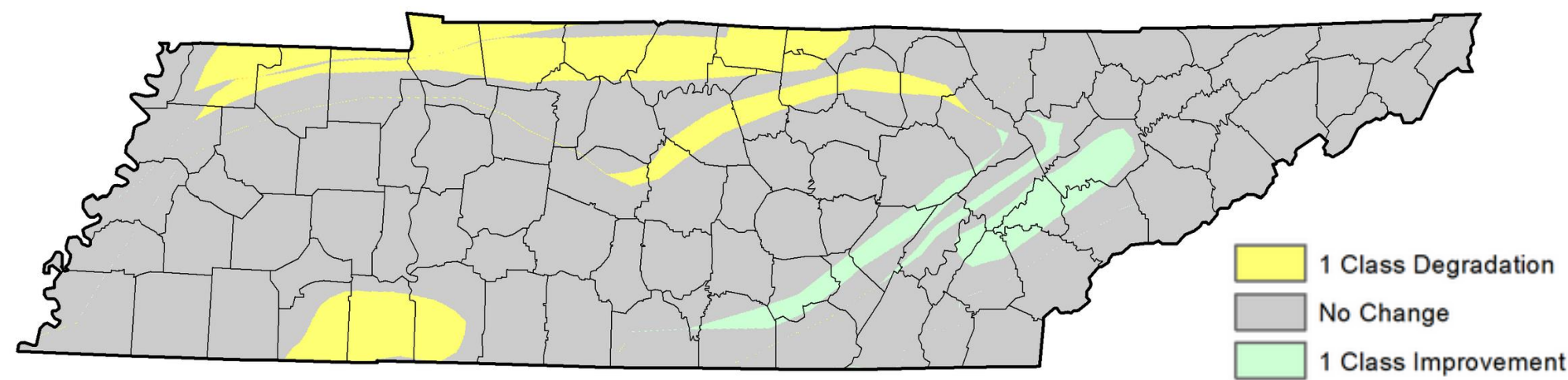
*From the US Drought Monitor, authored by Lindsay Johnson, National Drought Mitigation Center with input from the Tennessee Climate Office*



↓ Little to no rain across West and Middle TN again, resulting in D3 expansion to the north and introduction of D4 in the south

↑ Recent rainfall leading to 1 category improvement in and southwest of the Knoxville area, as well as the southeast wedge of the D3 area

### Change Since Last Week



A product of the Tennessee Climate Office  
[www.etsu.edu/tn-climate](http://www.etsu.edu/tn-climate)



# Statewide Condition Summary

**What's Changed?** Knoxville and other low elevation TN Valley locations to the southwest received 1+” of rain over the last monitoring period (Tuesday to Tuesday), resulting in improvement from Moderate Drought to Abnormally Dry. Northern Middle/West Tennessee missed out on significant rainfall again, resulting in a northward expansion of Extreme Drought and introduction of Exceptional Drought.

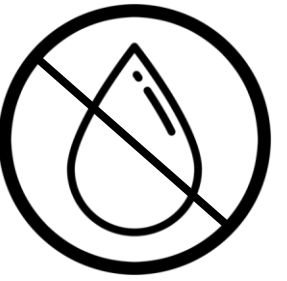
**What's New?** Extreme Drought (D3) extent remained about the same (~45%) with expansion in northern Middle/West TN and reduction along the Cumberland Plateau. Much of Knoxville and areas to the southwest are no longer in drought (though still Abnormally Dry) – the first time this area has not been in drought since October 10th.

**What's Next?** Over the next week, forecasts show widespread rainfall potential of 1.5-3” across Tennessee. This may result in 1-category improvements, especially in southeast Tennessee.

## Statewide Coverage By Category

Category	Coverage This Week	Change Since Last Week
D0: Abnormally Dry	6.93%	+0.15%
D1: Moderate Drought	20.64%	-4.67%
D2: Severe Drought	25.30%	+4.14%
D3: Extreme Drought	44.56%	-2.19%
D4: Exceptional Drought	2.57%	+2.57%

# Icon Library



No Precipitation



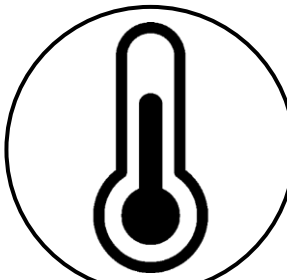
Increasing drought conditions



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