



# Drought Conditions Continue

August 4, 2022

9:35 AM

Latest Drought Update - August 4

## Key Messages

- [Drought Information Statement](#)
- Drought conditions have improved across parts of the area, while worsening in others.
- Recent rainfall could improve drought conditions in some areas, though drought conditions are expected to persist through August.
  - ◆ The current Drought Outlook does not account for recent rainfall since Tuesday August 2.

NEW

## Important Updates

- Drought conditions across south central Missouri reduced from Extreme drought to Severe Drought. Recent rainfall could help improve conditions.

## Next Scheduled Briefing

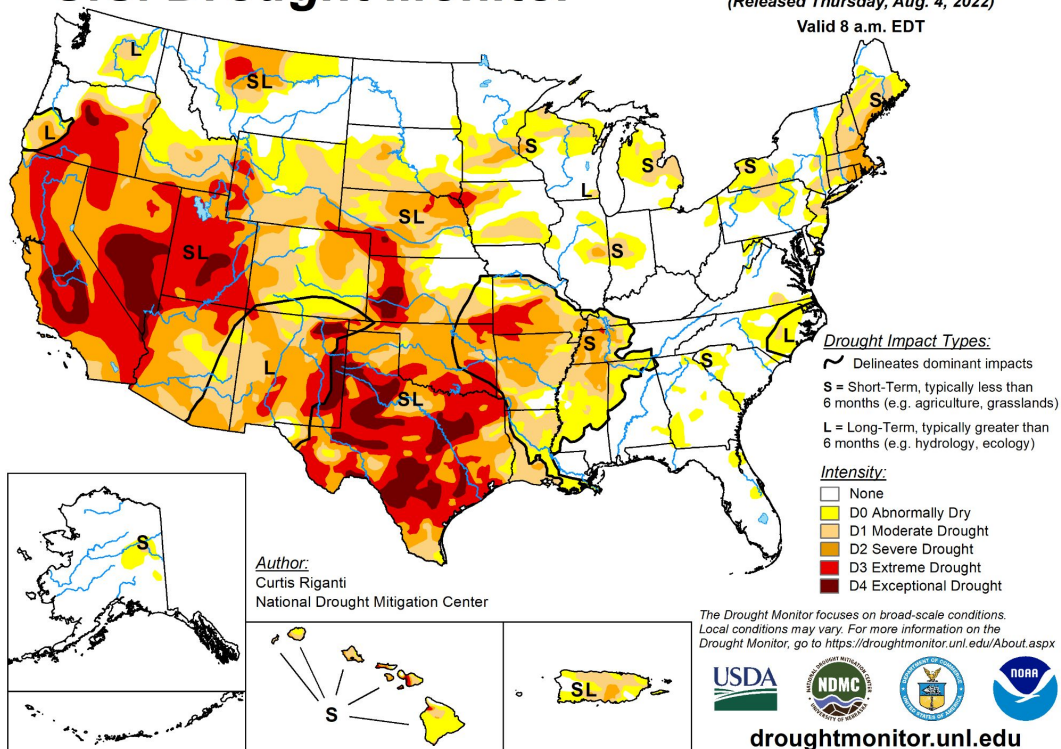
- Thursday August 11, 2022

## U.S. Drought Monitor

August 2, 2022

(Released Thursday, Aug. 4, 2022)

Valid 8 a.m. EDT



National Oceanic and  
Atmospheric Administration  
U.S. Department of Commerce

National Weather Service  
Springfield, Missouri



# Missouri Drought Monitor

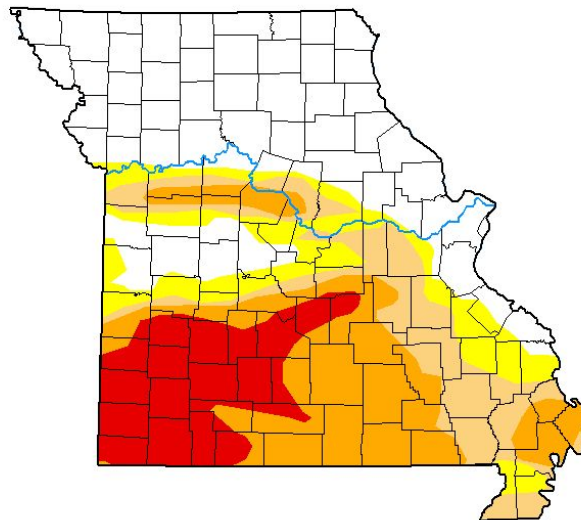
August 4, 2022

9:35 AM

## Overview

- Extreme drought conditions have reduced to Severe Drought conditions in south central Missouri.
- An expansion of Extreme Drought into central Missouri along the Interstate 44 corridor.
- Portions of Benton and Morgan counties removed from Drought Monitor.
- Severe Drought (D2) and greater was present across nearly 45 percent of the state.
- Areas near Truman Lake and Lake of the Ozarks are still outside of the main drought areas but are Abnormally Dry (D0) to Moderate Drought (D1).

## U.S. Drought Monitor Missouri



August 2, 2022

(Released Thursday, Aug. 4, 2022)

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Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	40.57	59.43	47.80	34.31	14.41	0.00
Last Week 07-26-2022	34.25	65.75	50.30	35.64	18.24	0.00
3 Months Ago 05-03-2022	99.51	0.49	0.00	0.00	0.00	0.00
Start of Calendar Year 01-04-2022	64.36	35.64	0.43	0.00	0.00	0.00
Start of Water Year 09-28-2021	48.89	51.11	2.29	0.00	0.00	0.00
One Year Ago 08-03-2021	98.17	1.83	0.00	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:

Curtis Riganti  
National Drought Mitigation Center



[droughtmonitor.unl.edu](https://droughtmonitor.unl.edu)



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National Weather Service  
Springfield, Missouri



# Kansas Drought Monitor

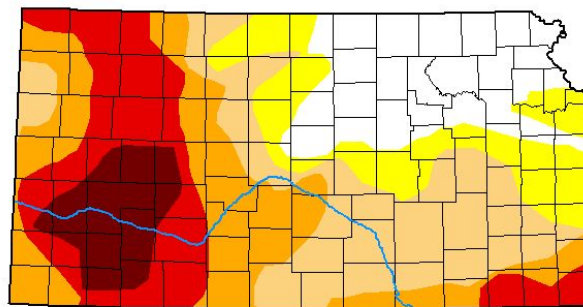
August 4, 2022

9:35 AM

## Overview

- Severe and Extreme drought conditions persist across western portions of the state as well. Severe Drought (D2) and greater was present across nearly 45 percent of the state.

## U.S. Drought Monitor Kansas



July 26, 2022

(Released Thursday, Jul. 28, 2022)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	18.54	81.46	68.10	44.88	25.00	7.90
Last Week 07-19-2022	17.86	82.14	53.85	40.02	22.59	2.80
3 Months Ago 04-26-2022	20.52	79.48	68.19	55.07	19.95	2.06
Start of Calendar Year 01-04-2022	25.19	74.81	52.34	14.06	2.45	0.00
Start of Water Year 09-28-2021	51.22	48.78	15.04	4.14	0.00	0.00
One Year Ago 07-27-2021	70.15	29.85	1.65	0.00	0.00	0.00

### Intensity:

None	D2 Severe Drought
D0 Abnormally Dry	D3 Extreme Drought
D1 Moderate Drought	D4 Exceptional Drought

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### Author:

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[droughtmonitor.unl.edu](https://droughtmonitor.unl.edu)

National Weather Service  
Springfield, Missouri



National Oceanic and  
Atmospheric Administration  
U.S. Department of Commerce



# Drought Monitor 2-Week Comparison

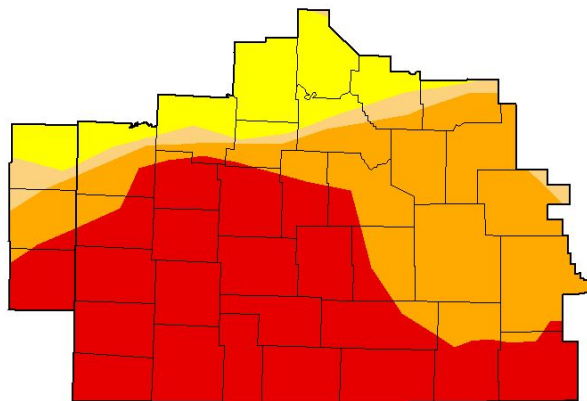
August 4, 2022

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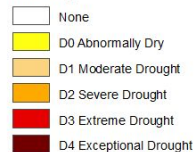
July 28 Compared to August 4

## U.S. Drought Monitor Springfield, MO WFO

July 26, 2022  
(Released Thursday, Jul. 28, 2022)  
Valid 8 a.m. EDT



### 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:

Curtis Riganti  
National Drought Mitigation Center

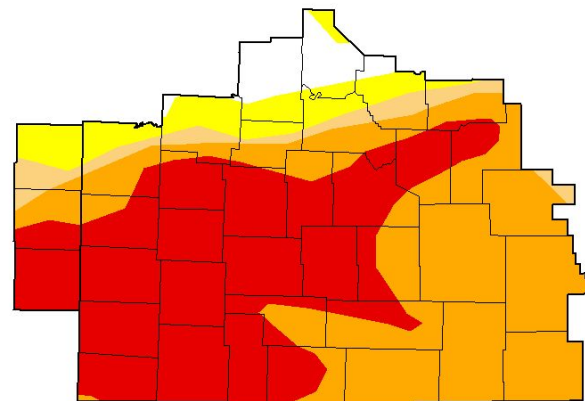


[droughtmonitor.unl.edu](https://droughtmonitor.unl.edu)

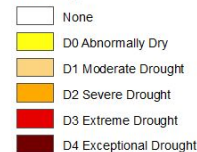
July 28 Drought Monitor

## U.S. Drought Monitor Springfield, MO WFO

August 2, 2022  
(Released Thursday, Aug. 4, 2022)  
Valid 8 a.m. EDT



### 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:

Curtis Riganti  
National Drought Mitigation Center



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August 4 Drought Monitor



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National Weather Service  
Springfield, Missouri



# Drought Classification

August 4, 2022

9:35 AM

## Drought Information

→ [State Impacts](#)

→ [Drought Impacts Toolkit](#)

→ [Drought Monitor Archive](#)

Category	Description	Possible Impacts	Ranges				
			Palmer Drought Severity Index (PDSI)	CPC Soil Moisture Model (Percentiles)	USGS Weekly Streamflow (Percentiles)	Standardized Precipitation Index (SPI)	Objective Drought Indicator Blends (Percentiles)
D0	Abnormally Dry	<p>Going into drought:</p> <ul style="list-style-type: none"><li>• short-term dryness slowing planting, growth of crops or pastures</li></ul> <p>Coming out of drought:</p> <ul style="list-style-type: none"><li>• some lingering water deficits</li><li>• pastures or crops not fully recovered</li></ul>	-1.0 to -1.9	21 to 30	21 to 30	-0.5 to -0.7	21 to 30
D1	Moderate Drought	<ul style="list-style-type: none"><li>• Some damage to crops, pastures</li><li>• Streams, reservoirs, or wells low, some water shortages developing or imminent</li><li>• Voluntary water-use restrictions requested</li></ul>	-2.0 to -2.9	11 to 20	11 to 20	-0.8 to -1.2	11 to 20
D2	Severe Drought	<ul style="list-style-type: none"><li>• Crop or pasture losses likely</li><li>• Water shortages common</li><li>• Water restrictions imposed</li></ul>	-3.0 to -3.9	6 to 10	6 to 10	-1.3 to -1.5	6 to 10
D3	Extreme Drought	<ul style="list-style-type: none"><li>• Major crop/pasture losses</li><li>• Widespread water shortages or restrictions</li></ul>	-4.0 to -4.9	3 to 5	3 to 5	-1.6 to -1.9	3 to 5
D4	Exceptional Drought	<ul style="list-style-type: none"><li>• Exceptional and widespread crop/pasture losses</li><li>• Shortages of water in reservoirs, streams, and wells creating water emergencies</li></ul>	-5.0 or less	0 to 2	0 to 2	-2.0 or less	0 to 2





# August Drought Outlook

August 4, 2022  
9:35 AM

## Drought Worsens

Low

Medium

High

## Drought Persists

Low

Medium

High

## Drought Removal

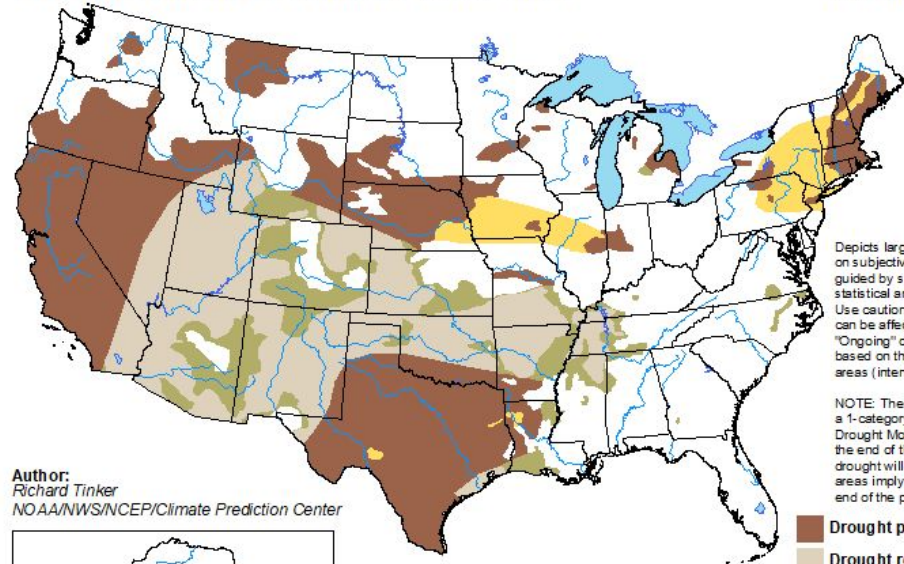
Low

Medium

High

### U.S. Monthly Drought Outlook Drought Tendency During the Valid Period

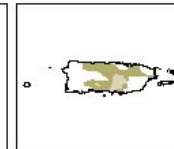
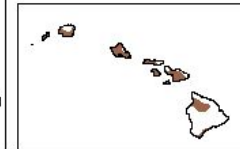
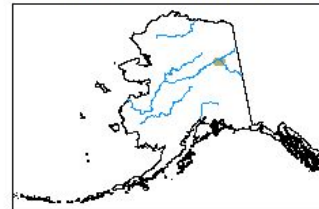
Valid for August 2022  
Released July 31, 2022



Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

Author:  
Richard Tinker  
NOAA/NWS/NCEP/Climate Prediction Center



- Drought persists
- Drought remains but improves
- Drought removal likely
- Drought development likely



<http://go.usa.gov/3eZGd>



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Springfield, Missouri



# August 4 - August 10 Outlook

August 4, 2022

9:35 AM

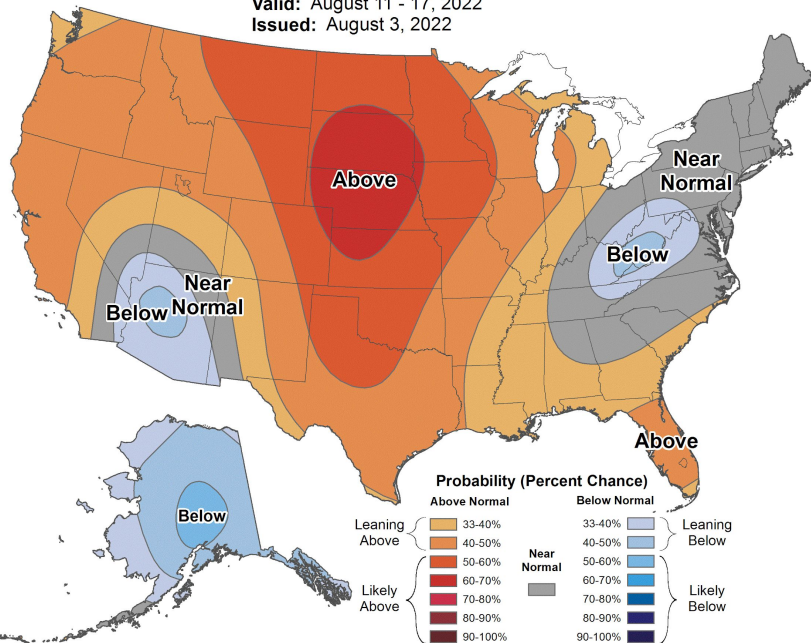
Above Normal Temperatures and Below Normal Precipitation are Favored



## 8-14 Day Temperature Outlook

Valid: August 11 - 17, 2022

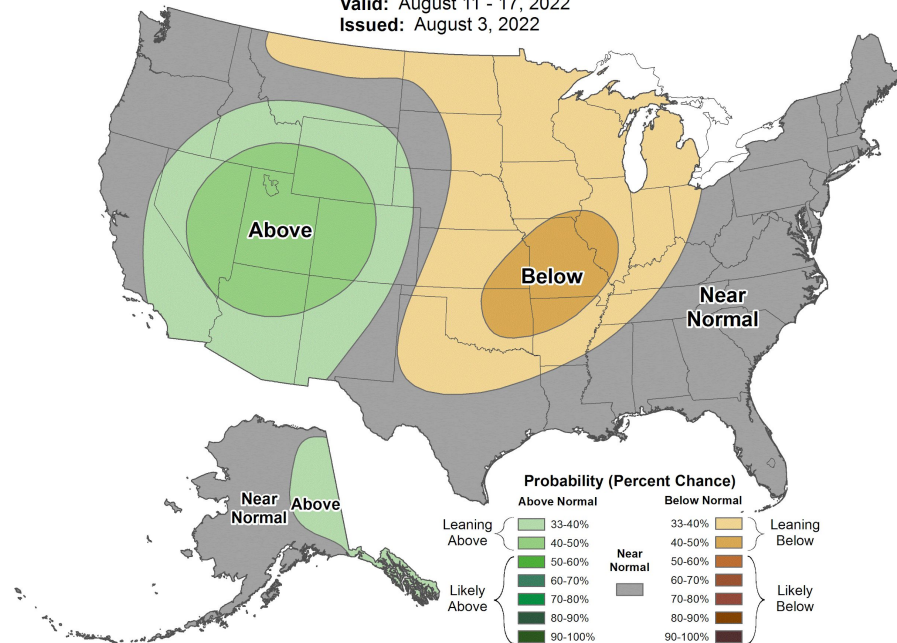
Issued: August 3, 2022



## 8-14 Day Precipitation Outlook

Valid: August 11 - 17, 2022

Issued: August 3, 2022



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# Precipitation Since June 1

August 4, 2022  
9:35 AM

Precipitation Since June 1 (in inches)			
Location	Total	Normal	Dep. Normal
Springfield	3.63	8.67	-5.04
Joplin	3.26	9.87	-6.61
Vichy/Rolla	5.27	9.29	-4.02
West Plains	4.23	8.60	-4.37

- While conditions were wet in April and May, precipitation amounts since June 1st are 4-6 inches below normal. Recent rainfall could help improve conditions.





# Below Normal Streamflows

August 4, 2022  
9:35 AM

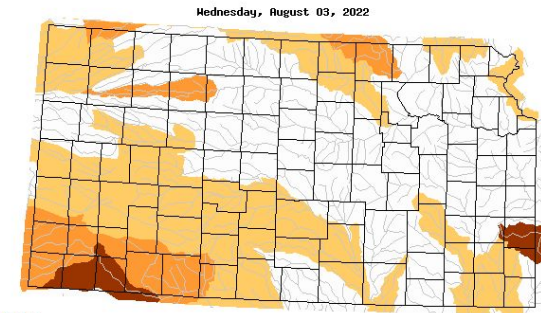
## Overview

- Average streamflows over the past 14 days were below to much below normal over west central Missouri, with near normal flows over the rest of the area.
- Recent rainfall will continue to improve streamflows in portions of the Missouri Ozarks Region.
- The 10-24 category indicates that the estimated streamflow is between the 10th and 24th percentile for this day of the year (low).

Explanation - Percentile classes			
Low	$\leq 5$	6-9	10-24
Extreme hydrologic drought	Severe hydrologic drought	Moderate hydrologic drought	Below normal



USGS



USGS





## For Additional Information

- [NWS Springfield Webpage](#)
- [IDSS Point Forecasts](#)
- [NWS Springfield Drought Monitor Resources](#)
- [Graphical Hazardous Weather Outlook](#)
- [Missouri Drought Monitor](#) | [Kansas Drought Monitor](#)
- [CPC Drought Information](#)
- [National Integrated Drought Information System \(NIDIS\)](#)
- [National Drought Mitigation Center \(NDMC\)](#)
- [Missouri USGS Streamflows](#) | [Kansas USGS Streamflows](#)
- [Drought Safety](#)

## Drought Impacts



### Agriculture

Farms, ranches, and grazing lands suffer, and increases the cost of their products



### Public Health

A decrease of water can lead to an increase of illness, disease, mortality rates, and adverse mental health



### Ecosystems

Harms fish, wildlife, and plants, as well as the benefits these ecosystems provide



### Wildfire Management

Dry, hot, and windy weather combined with dried out vegetation can lead to more large-scale wildfires



### Manufacturing

Interruptions in the water supply can result in a reduction of productivity or closure of facilities



### Energy

Production of all types of energy requires water, and drought can severely impact energy systems and prices

## During a Drought be Vigilant

Conserve Water

Practice Fire Prevention

Follow Directions from Local Officials

Trinity Lake, CA, dry lakebed during California Drought, 2014. Photo: USGS

