



# Drought Information Statement for the Missouri Ozarks

Valid November 21, 2024

Issued By: *WFO Springfield, MO*

Contact Information: *contact.sgf@noaa.gov*

- This product will be updated December 5, 2024 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/sgf/SGFDroughtMonitor> for additional information.





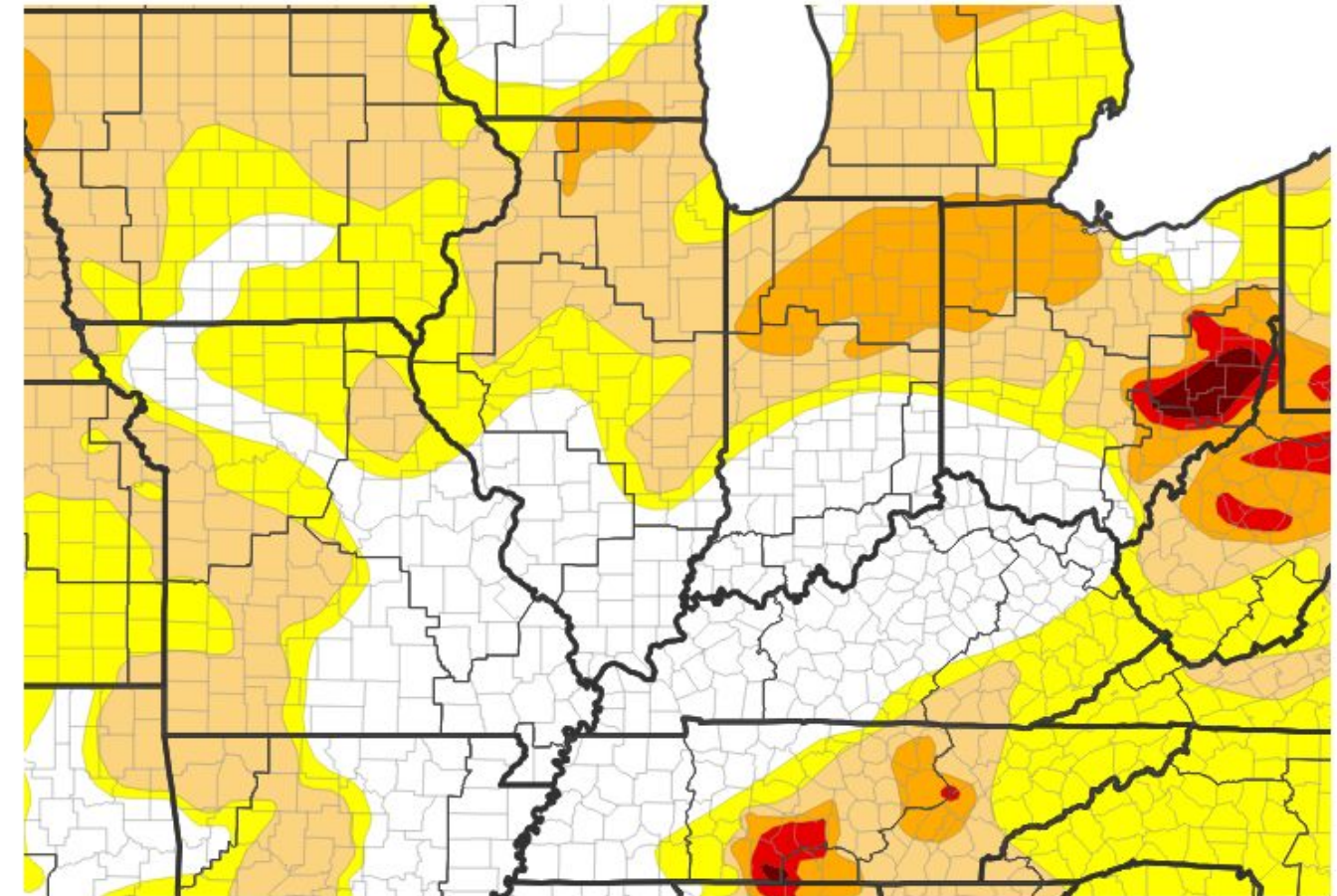
# U.S. Drought Monitor

November 21, 2024  
11:24 AM

Link to the [Latest U.S. Drought Monitor](#) for Lower Midwest

- **Drought Continues to Decrease across the Ozarks Region.**
- **Drought Intensity and Extent**
  - **D1 (Moderate Drought):** All of Newton, McDonald, Barry, Stone, Lawrence, Polk, Hickory, and Benton counties. Then, portions of St. Clair, Morgan, Miller, Camden, Dallas, Laclede, Cedar, Dade, Jasper, Cherokee, Greene, Christian, and Taney counties.
  - **D0: (Abnormally Dry):** Portions of some previously mentioned D1 areas, in addition to all of Bourbon, Crawford, Vernon, and Barton counties.

U.S. Drought Monitor



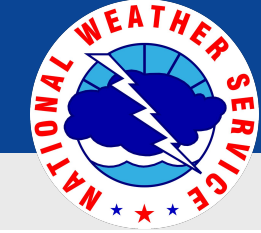
U.S. Drought Monitor



Source(s): NDMC, NOAA, USDA; image courtesy of Drought.gov

Data Valid: 11/19/24





# Drought Monitor - Last Week vs. This Week

November 21, 2024  
11:24 AM

Link to the [Latest U.S. Drought Monitor](#) for Lower Midwest

## Last Week (Nov 12)

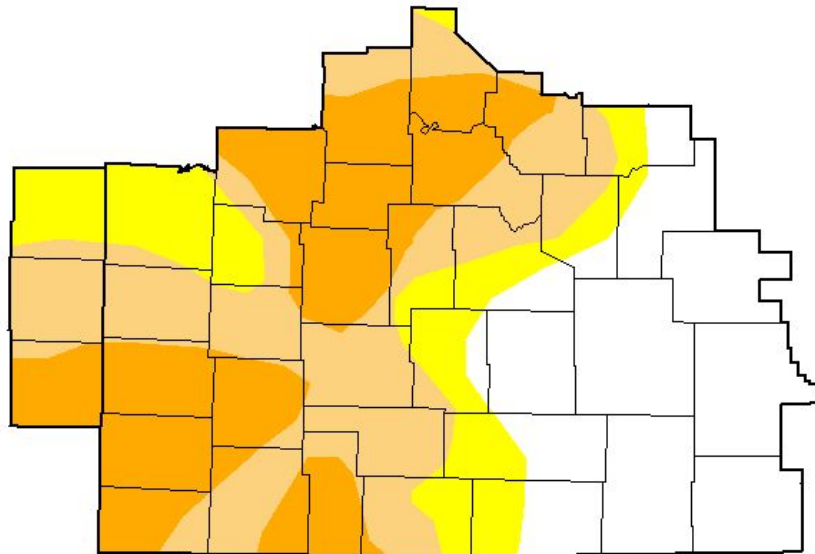
## Latest (Nov 19)

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

November 12, 2024  
(Released Thursday, Nov. 14, 2024)  
Valid 7 a.m. EST

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

November 19, 2024  
(Released Thursday, Nov. 21, 2024)  
Valid 7 a.m. EST



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	30.30	69.70	54.40	26.93	0.00	0.00
Last Week 11-05-2024	24.32	75.68	68.82	49.47	0.00	0.00
3 Months Ago 08-13-2024	53.76	46.24	20.60	0.00	0.00	0.00
Start of Calendar Year 01-02-2024	14.22	85.78	71.72	39.81	0.55	0.00
Start of Water Year 10-01-2024	20.98	79.02	51.60	25.72	0.00	0.00
One Year Ago 11-14-2023	29.05	70.95	39.07	20.13	0.70	0.00

**Intensity:**

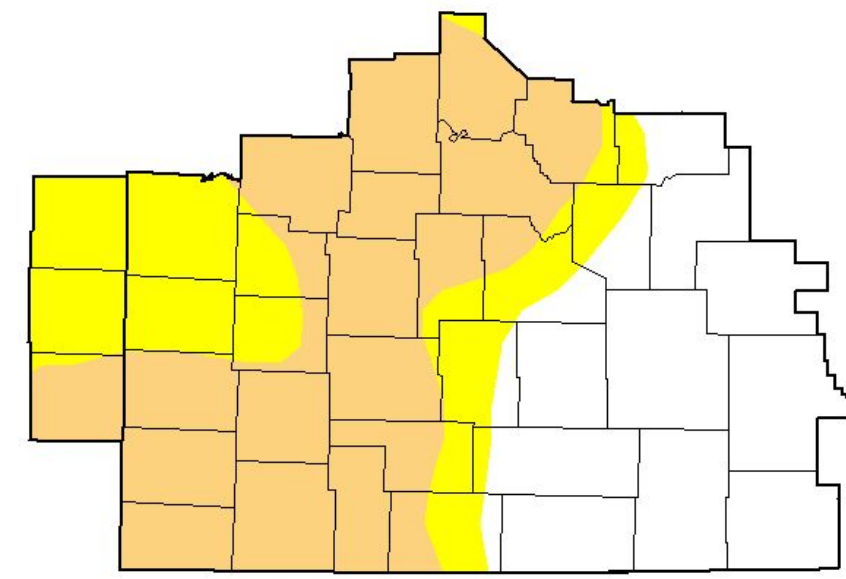
- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

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:**  
Richard Tinker  
CPC/NOAA/NWS/NCEP



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



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	34.87	65.13	43.16	0.00	0.00	0.00
Last Week 11-12-2024	30.30	69.70	54.40	26.93	0.00	0.00
3 Months Ago 08-20-2024	62.50	37.50	8.86	0.00	0.00	0.00
Start of Calendar Year 01-02-2024	14.22	85.78	71.72	39.81	0.55	0.00
Start of Water Year 10-01-2024	20.98	79.02	51.60	25.72	0.00	0.00
One Year Ago 11-21-2023	29.05	70.95	39.09	20.34	0.70	0.00

**Intensity:**

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

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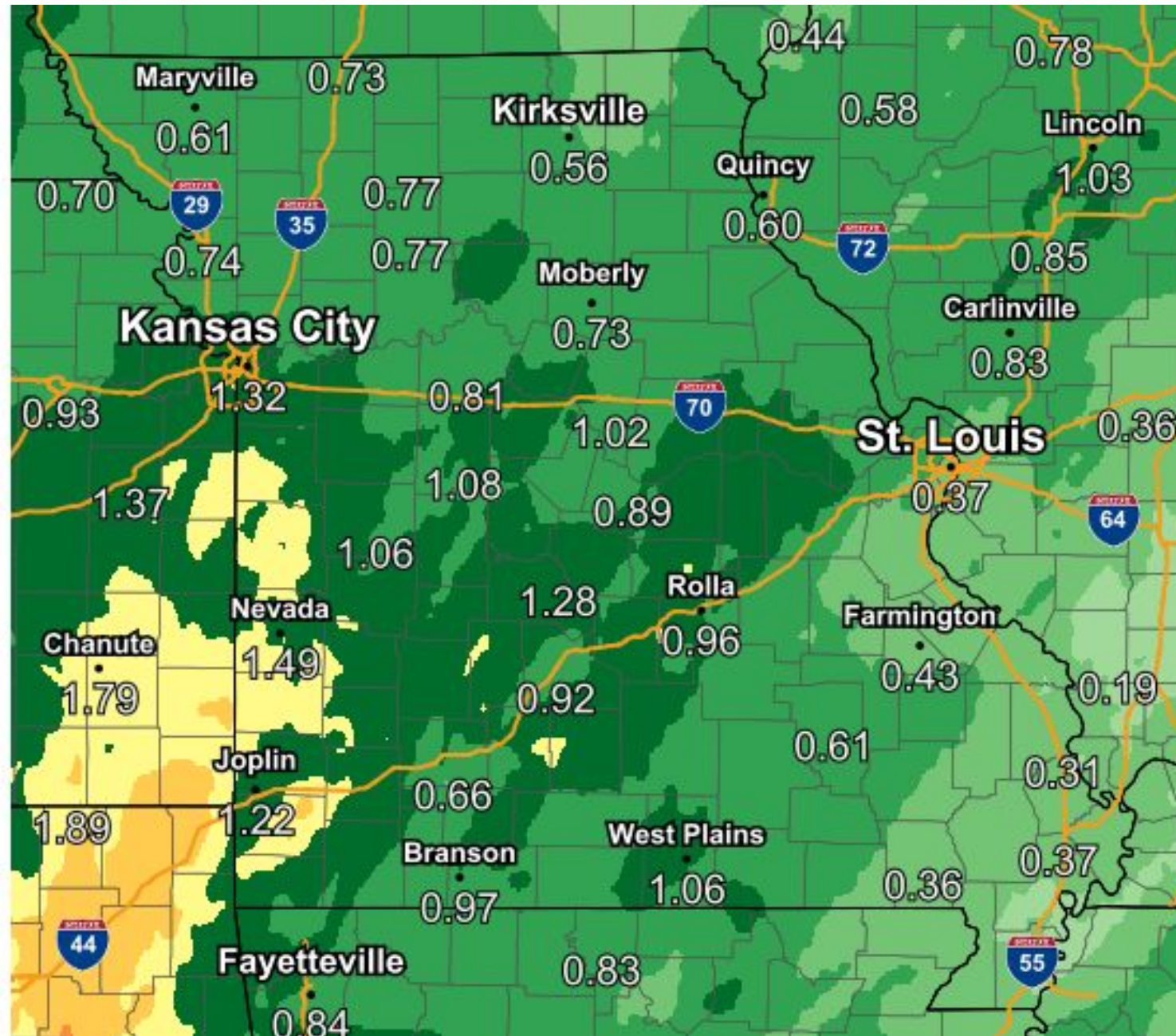
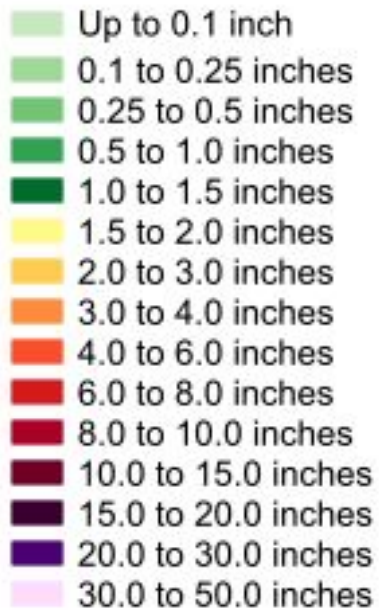


[droughtmonitor.unl.edu](https://droughtmonitor.unl.edu)



# Observed Precipitation in Last 7 Days

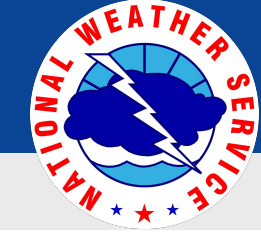
November 21, 2024  
11:24 AM



Graphic Created  
November 21st, 2024  
9:38 AM CST

- Additional rounds of rain over the weekend brought widespread accumulations of 0.5-2" of rain, with the greatest totals along and west of I-49.
- These totals have contributed to the gradual improvement of drought conditions across southwest Missouri.





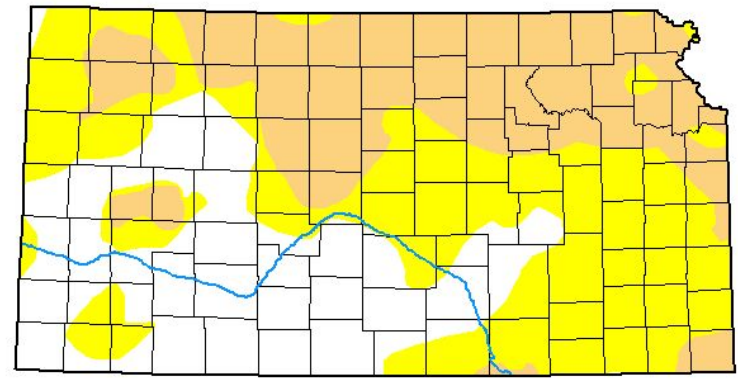
# State Drought Monitor

November 21, 2024  
11:24 AM

Link to [Recent Change Maps](#)

## U.S. Drought Monitor Kansas

November 19, 2024  
(Released Thursday, Nov. 21, 2024)  
Valid 7 a.m. EST



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	30.42	69.58	31.19	0.00	0.00	0.00
Last Week 11-12-2024	26.78	73.22	33.05	3.36	0.00	0.00
3 Months Ago 08-20-2024	10.52	89.48	50.55	9.11	0.00	0.00
Start of Calendar Year 01-02-2024	20.54	79.46	53.43	19.44	2.88	0.00
Start of Water Year 10-01-2024	7.48	92.52	50.40	8.34	0.00	0.00
One Year Ago 11-21-2023	9.90	90.10	68.45	42.62	7.63	0.00

**Intensity:**

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

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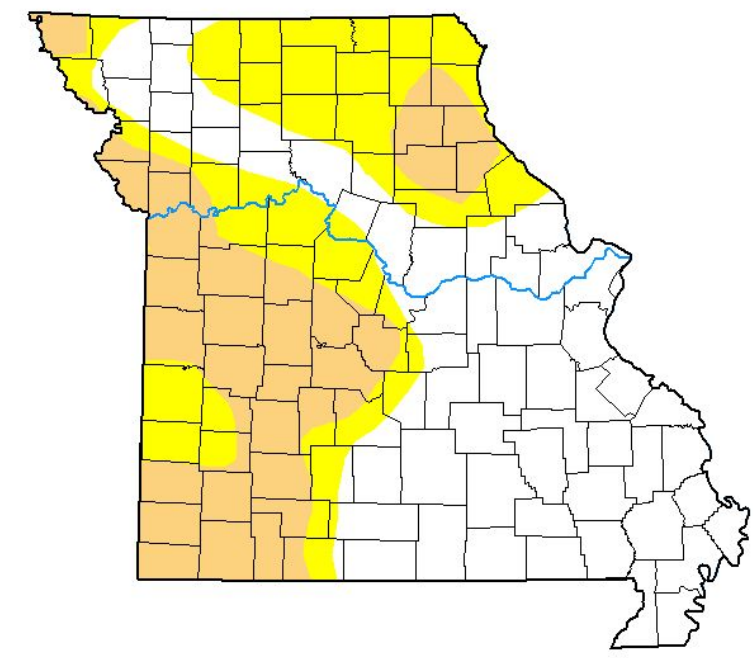
Author:  
Richard Tinker  
CPC/NOAA/NWS/NCEP



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

## U.S. Drought Monitor Missouri

November 19, 2024  
(Released Thursday, Nov. 21, 2024)  
Valid 7 a.m. EST



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	47.75	52.25	27.02	0.00	0.00	0.00
Last Week 11-12-2024	37.88	62.12	29.98	10.31	0.00	0.00
3 Months Ago 08-20-2024	68.67	31.33	2.87	0.00	0.00	0.00
Start of Calendar Year 01-02-2024	6.73	93.27	71.50	30.45	1.09	0.00
Start of Water Year 10-01-2024	39.30	60.70	23.73	7.95	0.00	0.00
One Year Ago 11-21-2023	17.23	82.77	58.94	22.50	0.91	0.00

**Intensity:**

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

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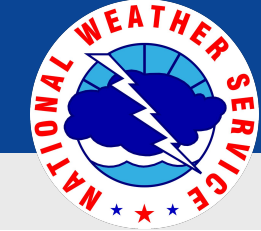
Author:  
Richard Tinker  
CPC/NOAA/NWS/NCEP



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

### Main Takeaways

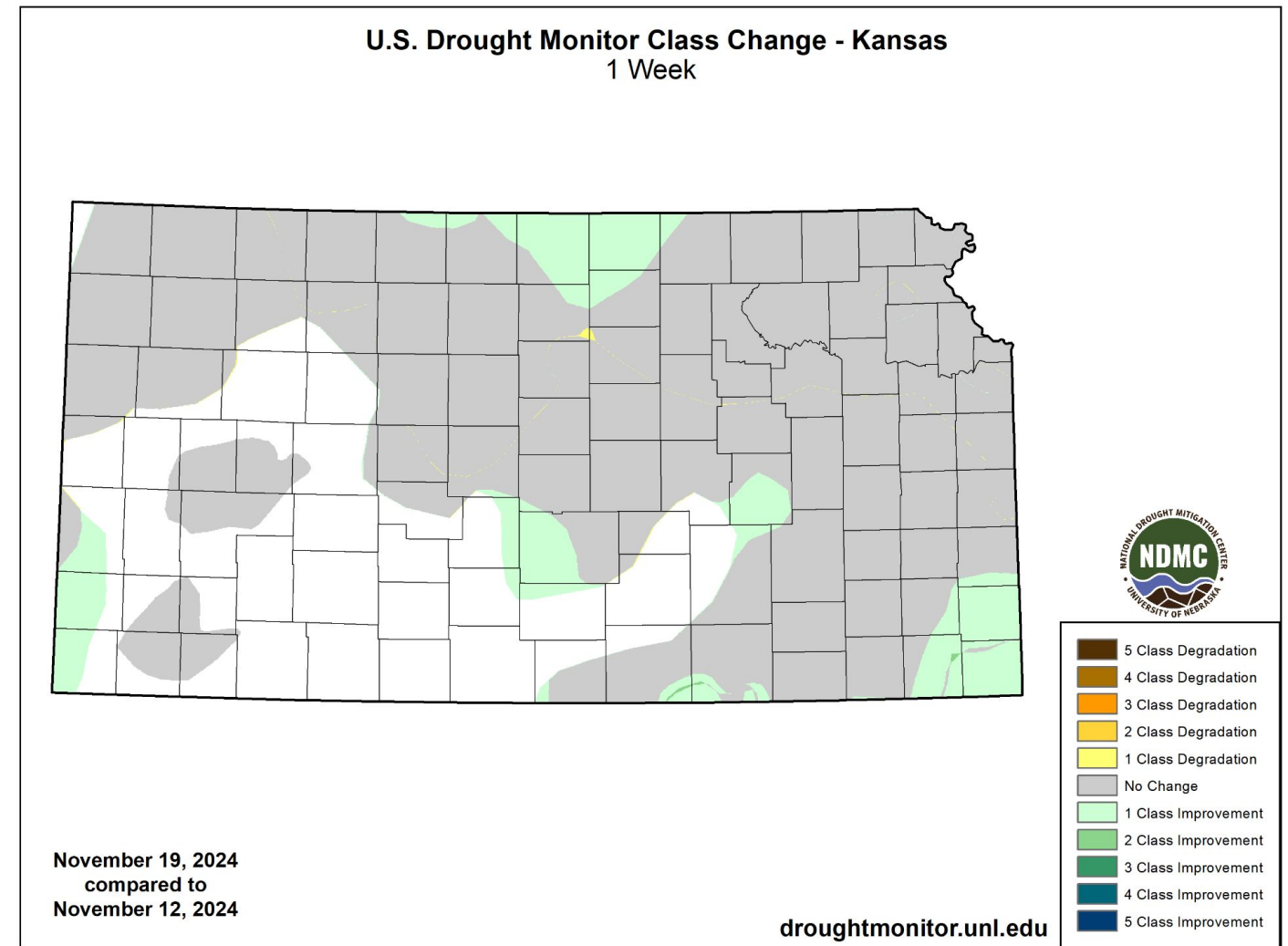
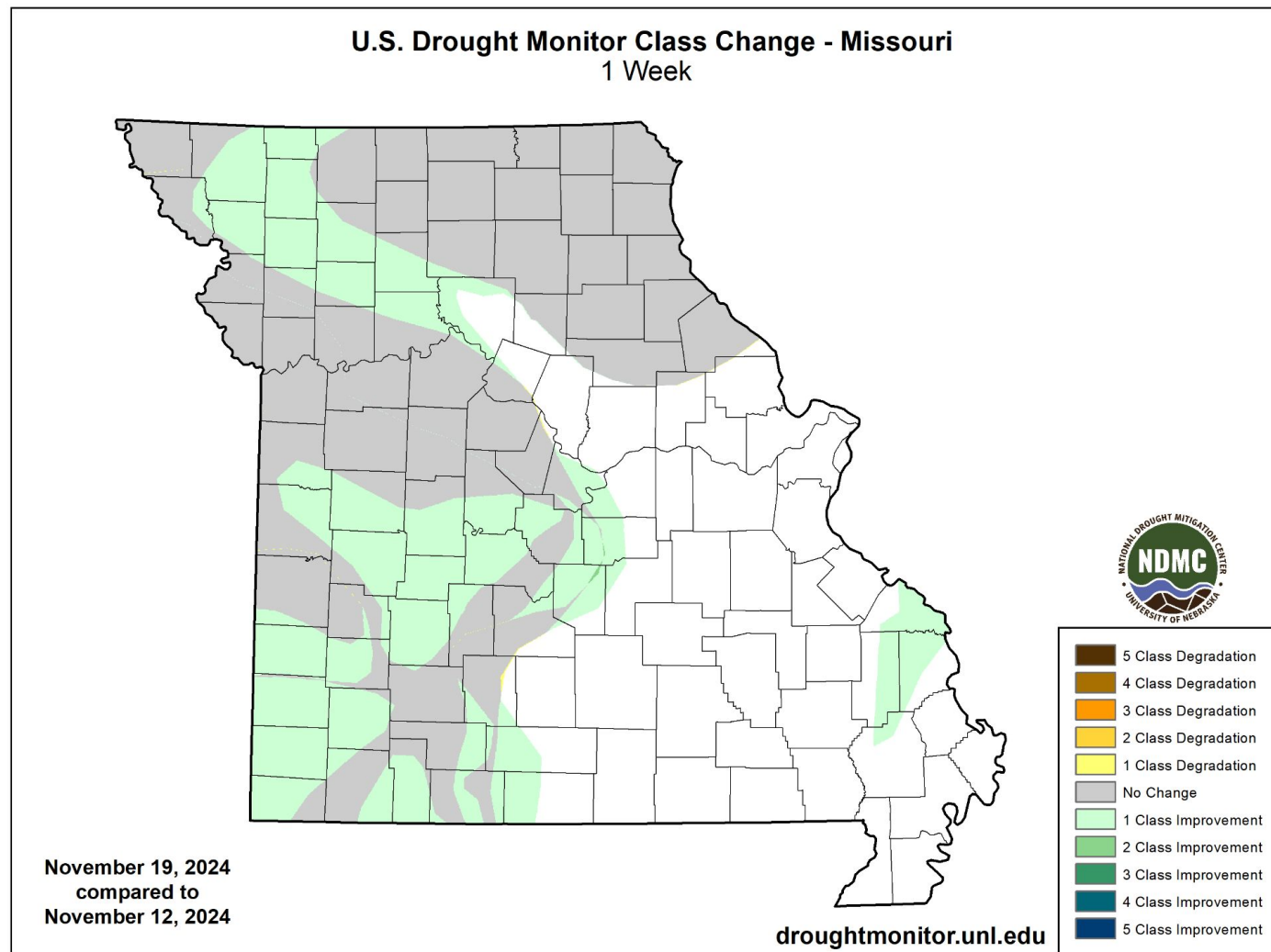
- D2 Drought has been eliminated in all areas previously under D2 conditions.
- Eastward extent of all drought conditions decreased again.



# Recent Change in Drought Intensity

November 21, 2024  
11:24 AM

Link to [Recent Change Maps](#)



## Main Takeaways

- Drought further improved across much of southwest Missouri and southeast Kansas.
- Portions of South-Central Missouri continue to be in “No Drought” thanks to copious amounts of recent rainfall.



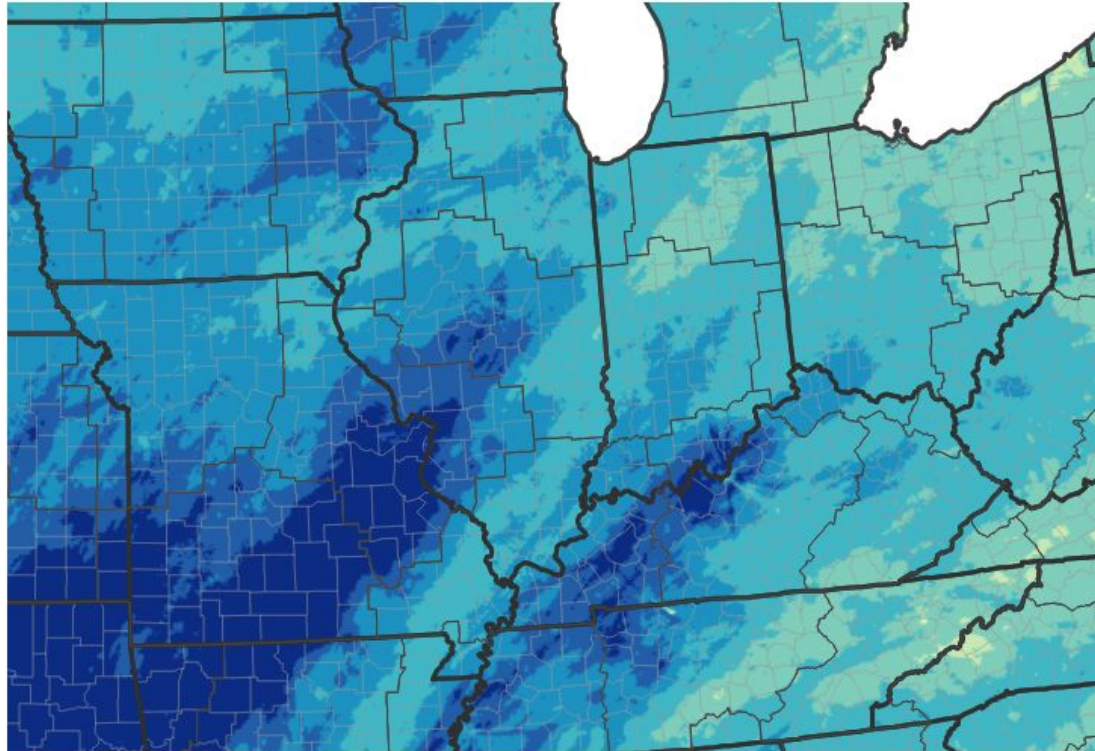


# 30 Day Precipitation

November 21, 2024  
11:24 AM

## Measured Rainfall

### 30-Day Precipitation Accumulations (Inches)

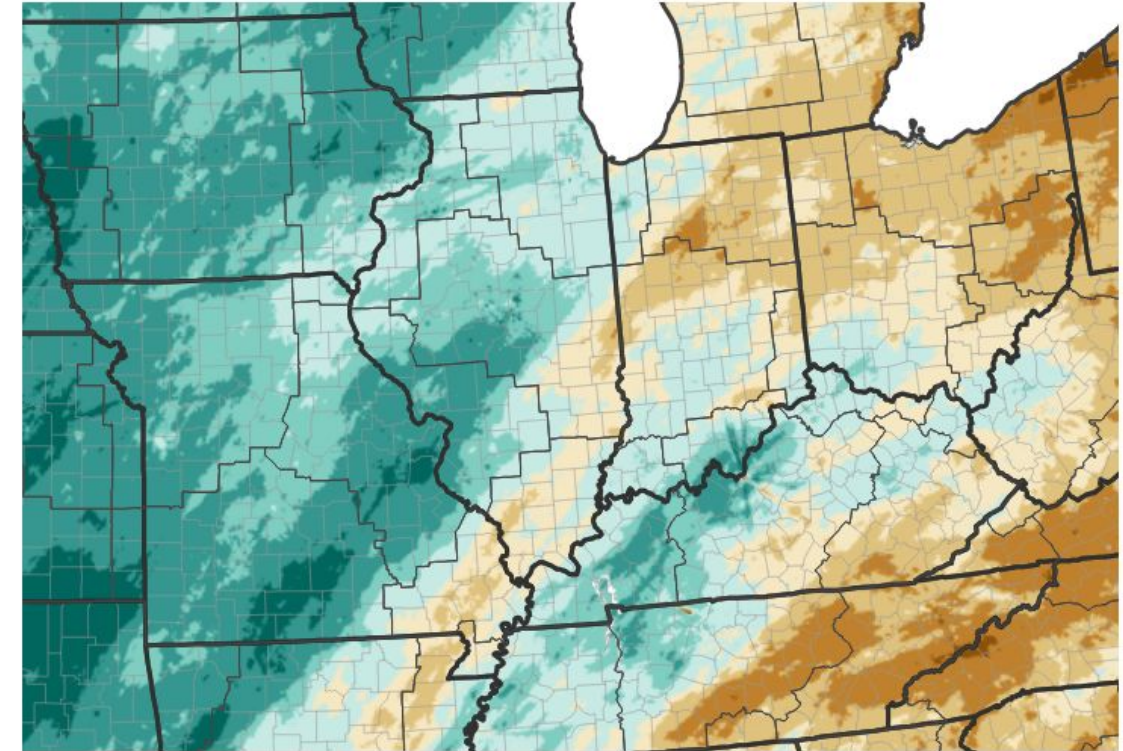


Inches of Precipitation

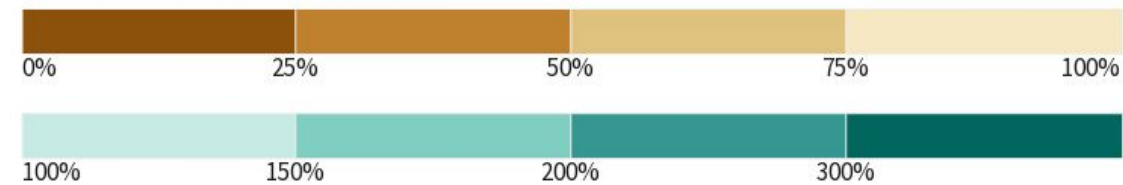


Source(s): National Weather Service Multi-Radar Multi-Sensor System; image courtesy of Drought.gov; Last Updated: 11/21/24

### 30-Day Percent of Normal Precipitation



Percent of Normal Precipitation (%)



Source(s): National Weather Service Multi-Radar Multi-Sensor System; image courtesy of Drought.gov; Last Updated: 11/21/24

## Main Takeaways

- Multiple rounds of rainfall this month has significantly contributed significantly to above normal 30-day precipitation.
- Many areas are at 200% or greater of the 30-day normal precipitation.



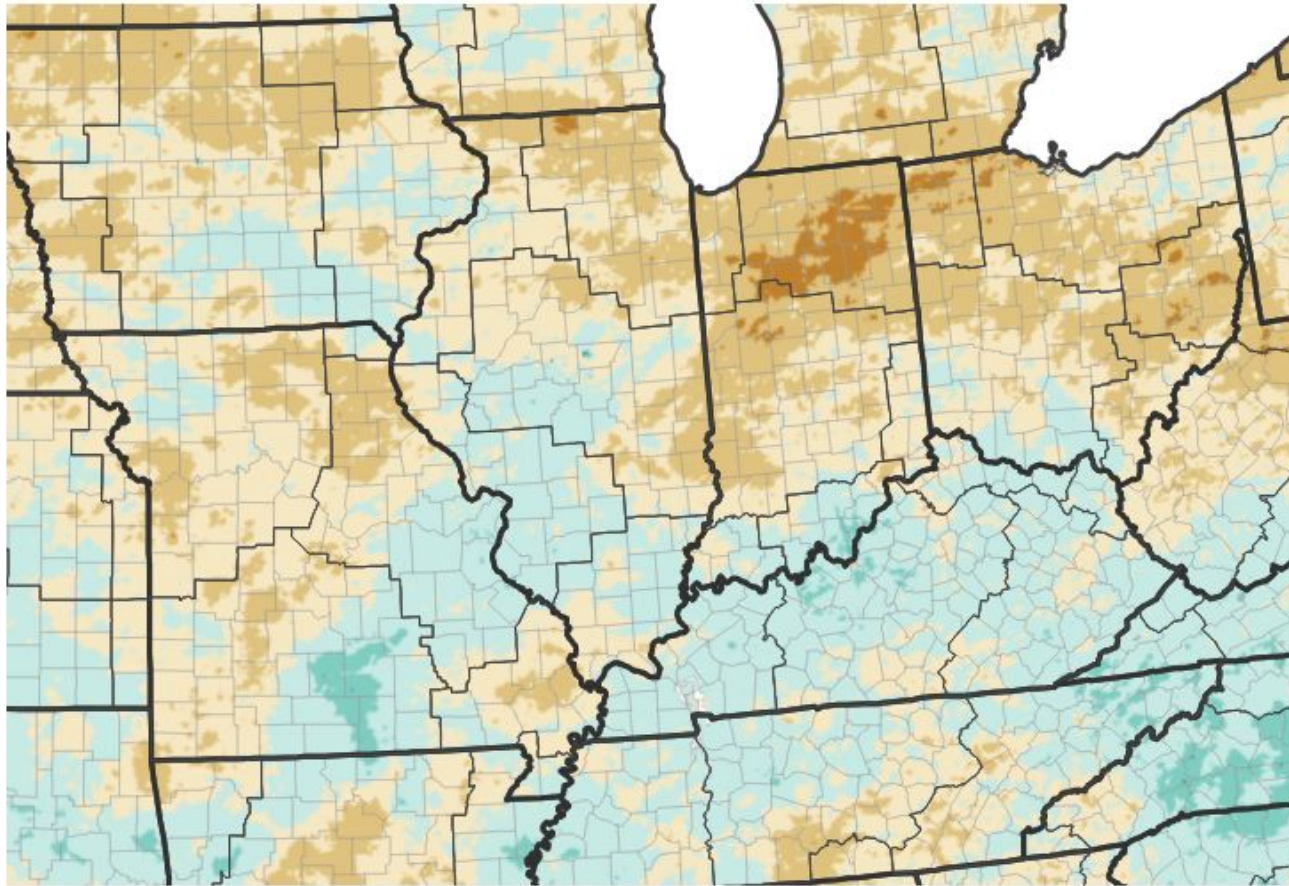


# 120 Day Precipitation

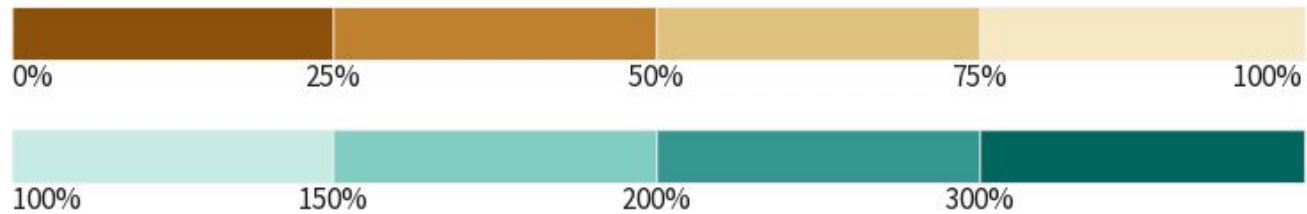
November 21, 2024  
11:24 AM

## 120-Day Percent of Normal Precipitation

### 120-Day Percent of Normal Precipitation



#### Percent of Normal Precipitation (%)



Source(s): National Weather Service Multi-Radar Multi-Sensor System; image courtesy of Drought.gov; Last Updated: 11/21/24

### Main Takeaways

- However, the recent heavy rainfall has only made a dent in sub-seasonal precipitation deficits across the region.
- Only the eastern Ozarks in south-central Missouri have seen above normal precipitation over the last four months.
- Areas in D1 and D2 drought conditions farther west remain near normal to below normal for four-month average precipitation values.



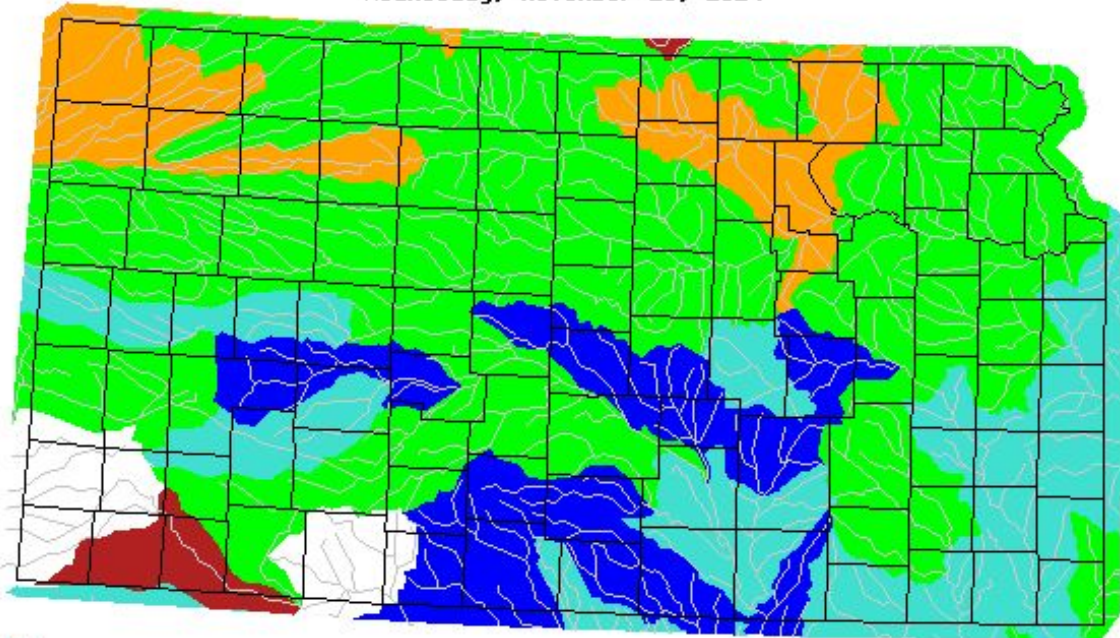




# Hydrologic Conditions and Impacts

November 21, 2024  
11:24 AM

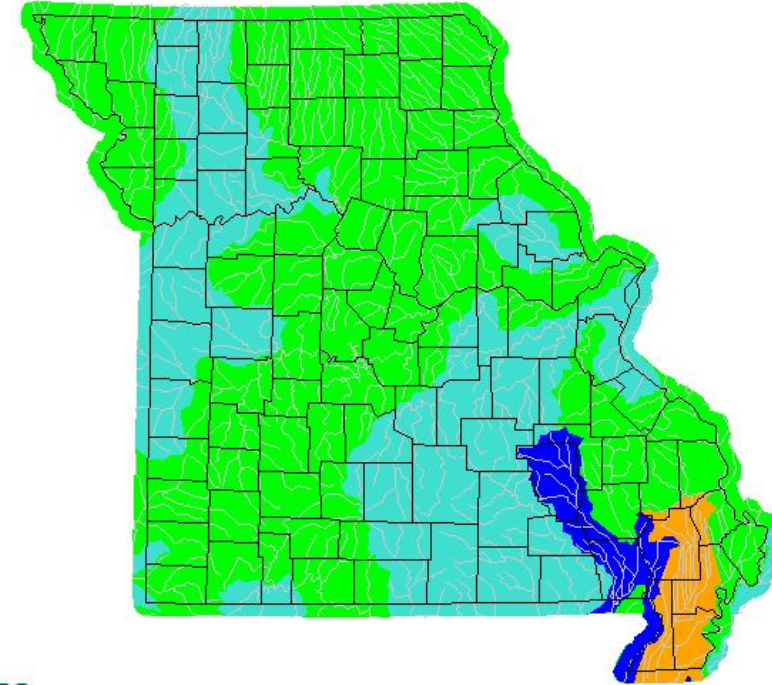
Hednesday, November 20, 2024



Explanation - Percentile classes							
Low	<10	10-24	25-75	76-90	>90	High	No Data
	Much below normal	Below normal	Normal	Above normal	Much above normal		

Image Caption: : [USGS 7 day average streamflow HUC map - Kansas](#)

Hednesday, November 20, 2024



Explanation - Percentile classes							
Low	<10	10-24	25-75	76-90	>90	High	No Data
	Much below normal	Below normal	Normal	Above normal	Much above normal		

Image Caption: : [USGS 7 day average streamflow HUC map - Missouri](#)

## Main Takeaways

- Streamflows are at near-normal to above-normal in southeast Kansas and southwestern Missouri.
- Many south-central and central Missouri basins and tributaries continue to have much above normal or high streamflows in the wake of historic river flooding after the recent heavy precipitation in these areas.





# 8 to 14 Day Outlooks

November 21, 2024  
11:24 AM

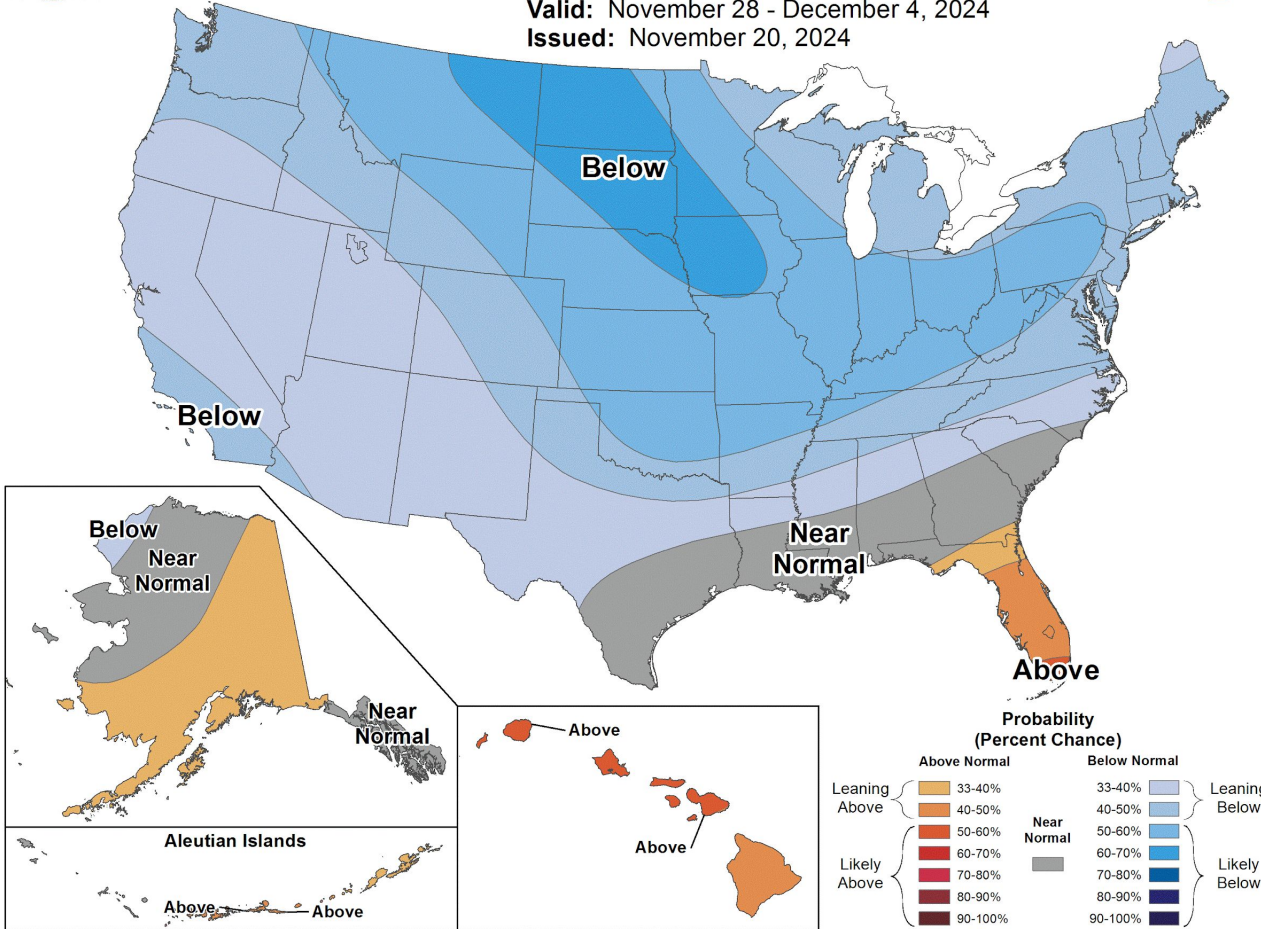
The Latest Monthly and Seasonal Outlooks can be Found on the [CPC homepage](#)



## 8-14 Day Temperature Outlook



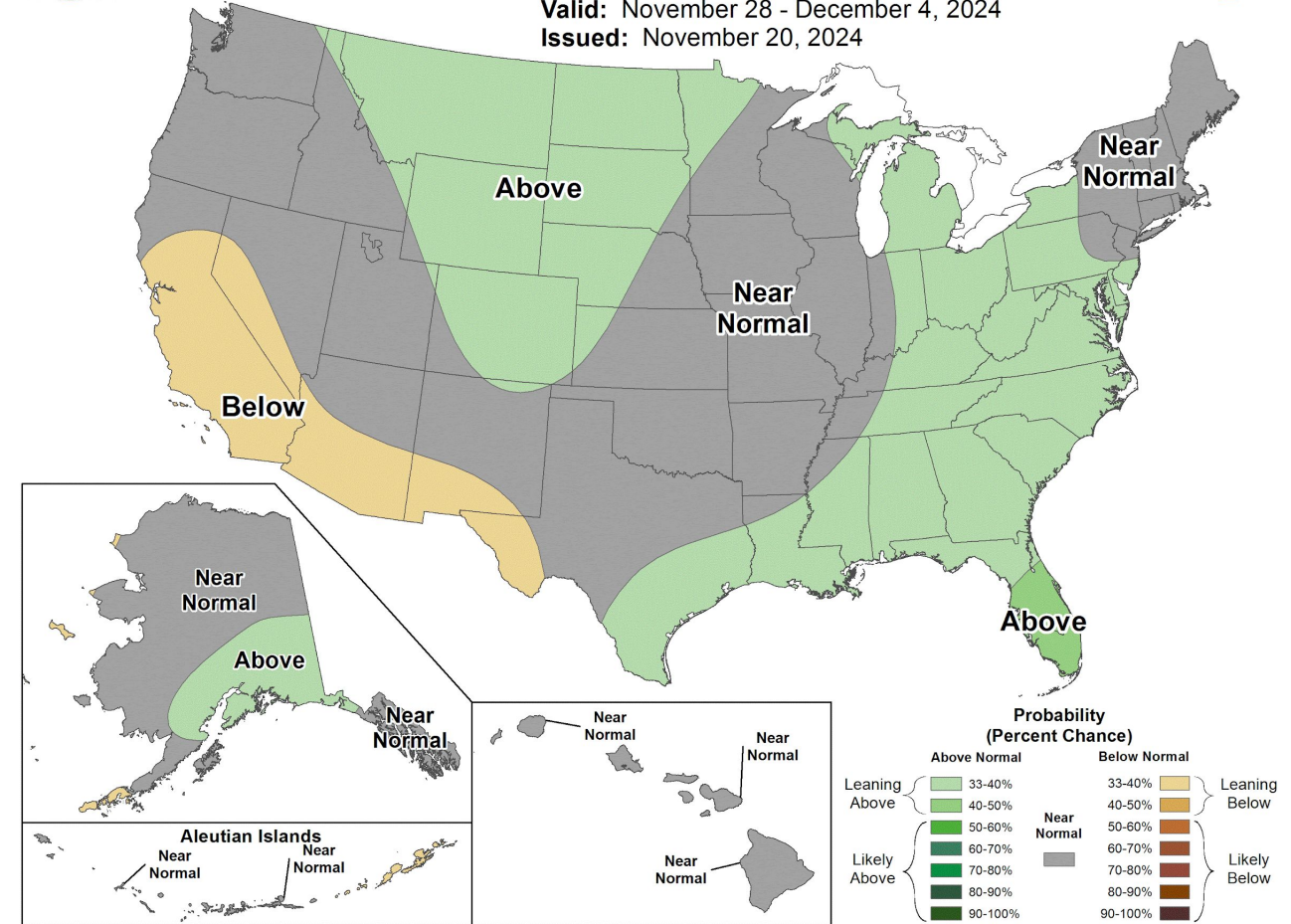
Valid: November 28 - December 4, 2024  
Issued: November 20, 2024



## 8-14 Day Precipitation Outlook



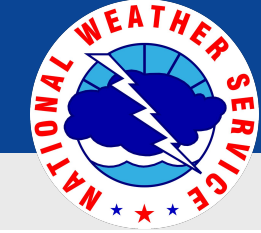
Valid: November 28 - December 4, 2024  
Issued: November 20, 2024



### Main Takeaways

- A pattern change looks to occur towards the end of November and beginning of December bringing a 50-60% chance for below normal temperatures.
- Precipitation looks to be near normal for this timeframe.





# December Monthly Outlooks

November 21, 2024  
11:24 AM

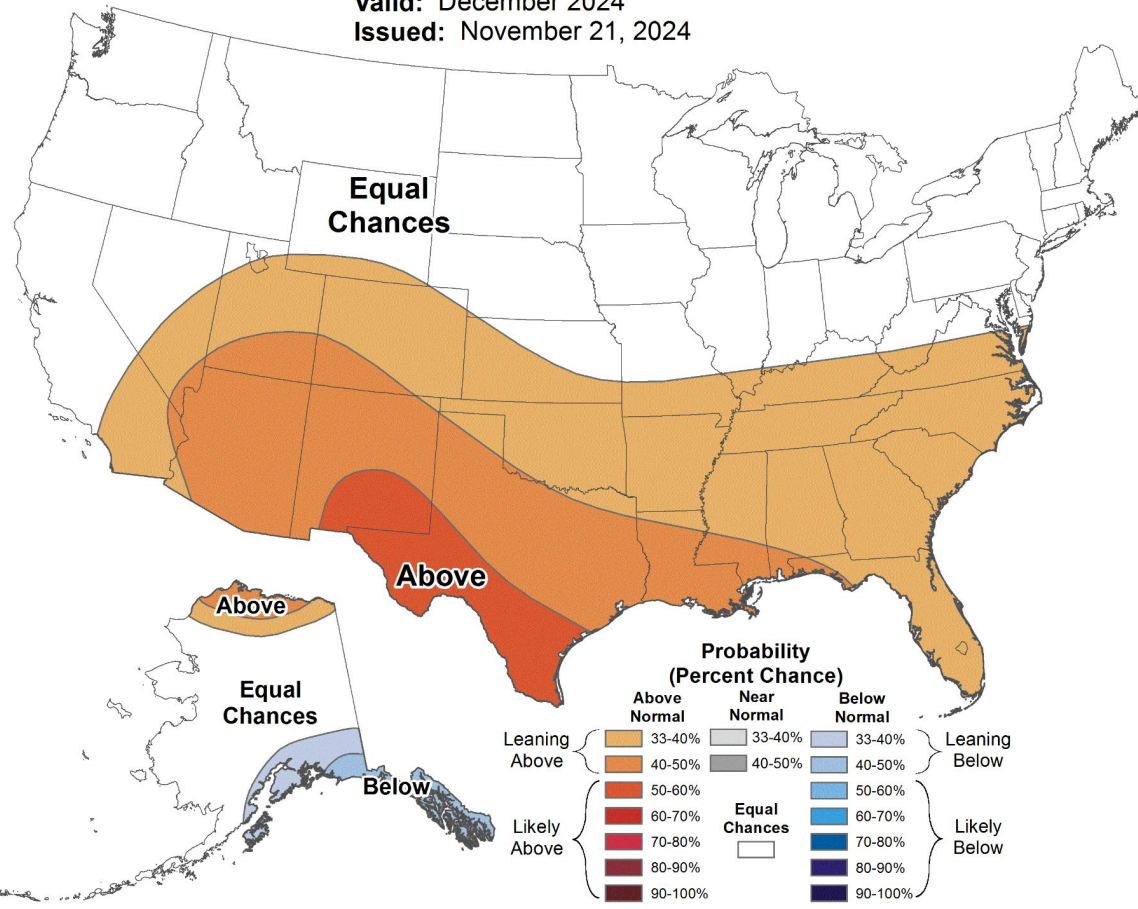
The Latest Monthly and Seasonal Outlooks can be Found on the [CPC homepage](#)



## Monthly Temperature Outlook



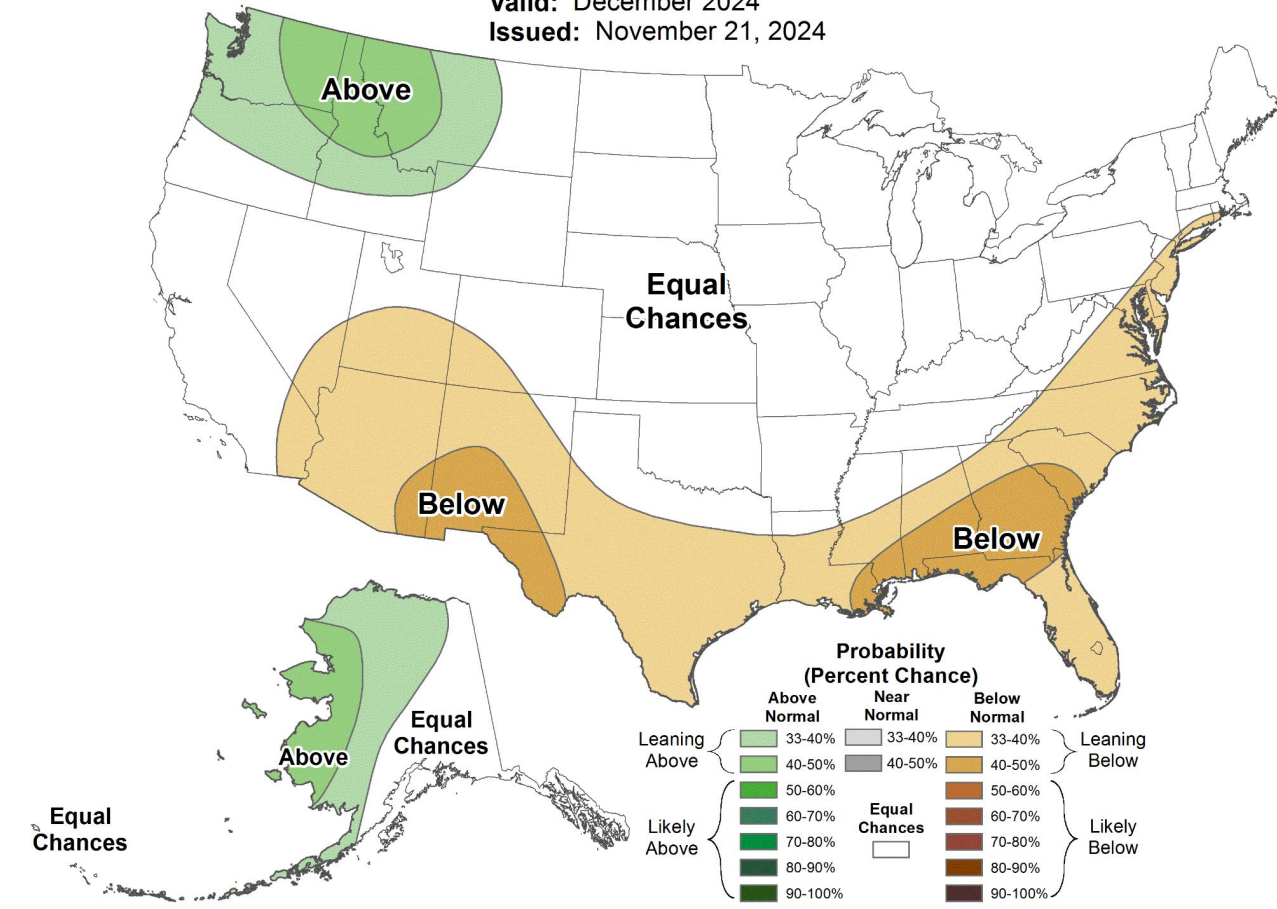
Valid: December 2024  
Issued: November 21, 2024



## Monthly Precipitation Outlook



Valid: December 2024  
Issued: November 21, 2024



### Main Takeaways

- The temperature pattern is slightly leaning toward above-normal temperatures for December in southern Missouri.
- The precipitation outlook is solidly within equal chances of below or above normal precipitation. Therefore, near normal precipitation is forecast for December.



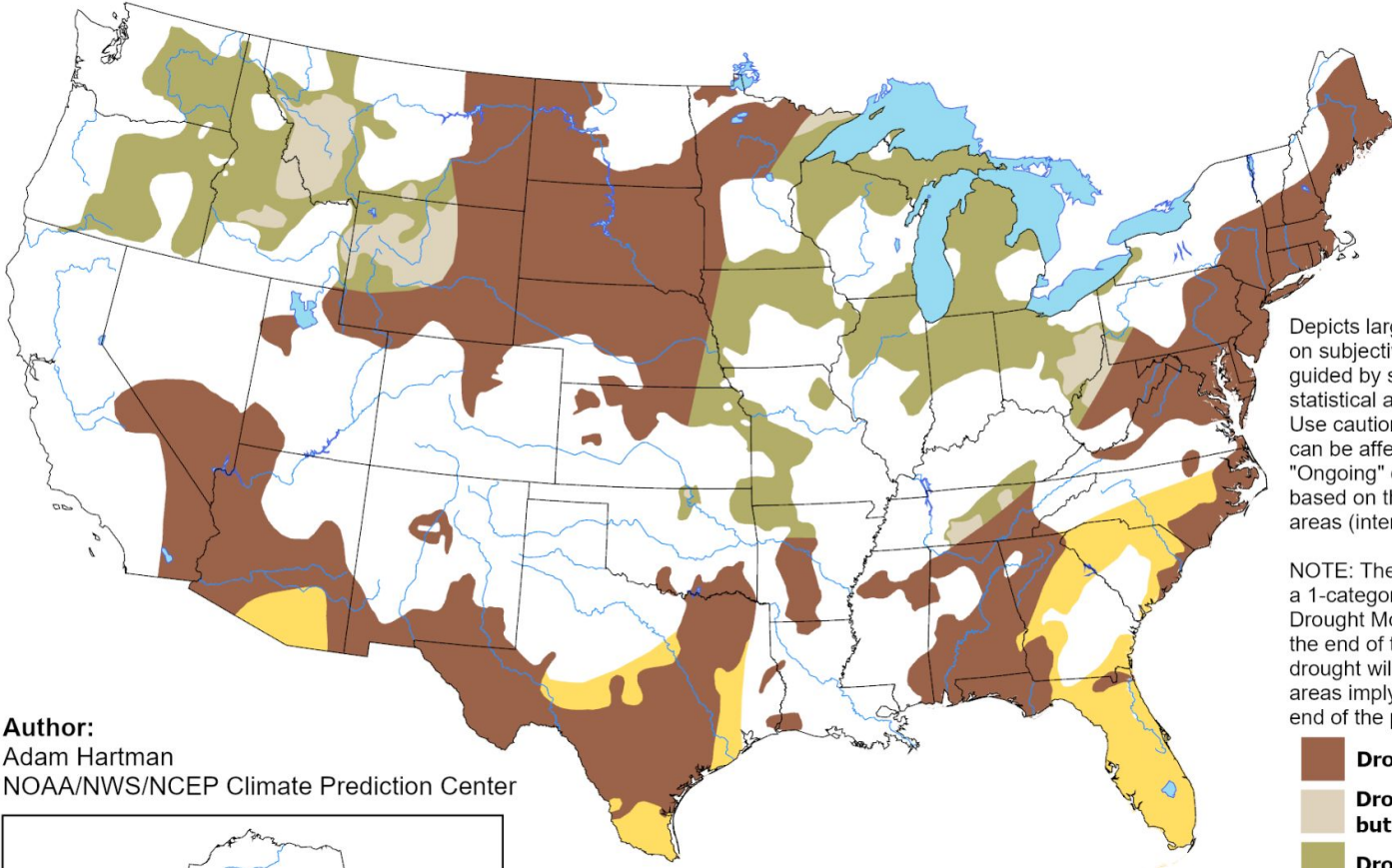


# Drought Outlook

November 21, 2024  
11:24 AM

[Climate Prediction Center Monthly Drought Outlook](#) | [Climate Prediction Center Seasonal Drought Outlook](#)

## U.S. Seasonal Drought Outlook Valid for November 21, 2024 - February 28, 2025 Drought Tendency During the Valid Period Released November 21, 2024

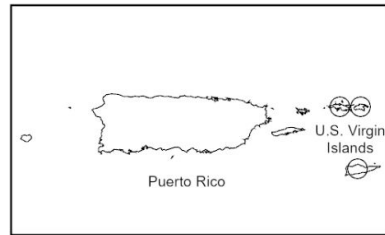
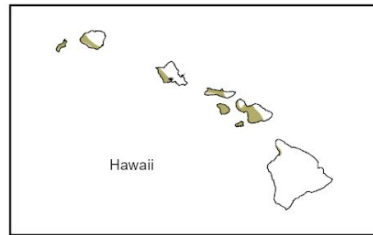
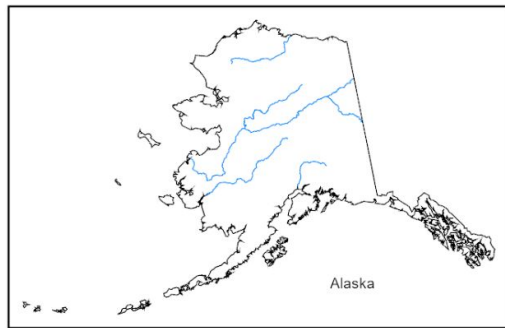


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to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

- Drought persists**
- Drought remains, but improves**
- Drought removal likely**
- Drought development likely**
- No drought**

**Author:**  
Adam Hartman  
NOAA/NWS/NCEP Climate Prediction Center



<https://go.usa.gov/3eZ73>

### Main Takeaways

- The current drought across southwest Missouri is forecast to be removed entirely by the end of the winter season.



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

National Weather Service  
Springfield, MO



## For Additional Information

- [NWS Springfield Webpage | IDSS Point Forecasts](#)
- [NWS Springfield Drought Monitor Resources](#)
- [Graphical Hazardous Weather Outlook](#)
- [Missouri Drought Monitor | Kansas Drought Monitor](#)
- [Drought Monitor Archive](#)
- [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



weather.gov/drought

