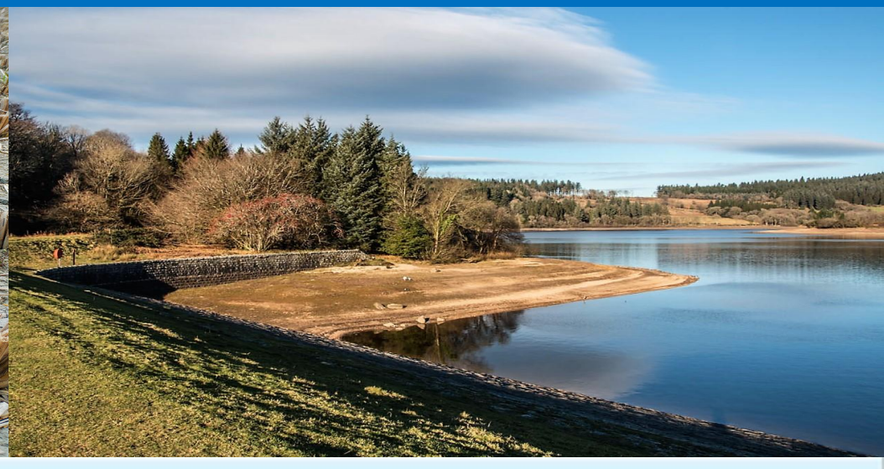
Drought Information Statement for the Missouri Ozarks

Valid November 7, 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 7, 2024
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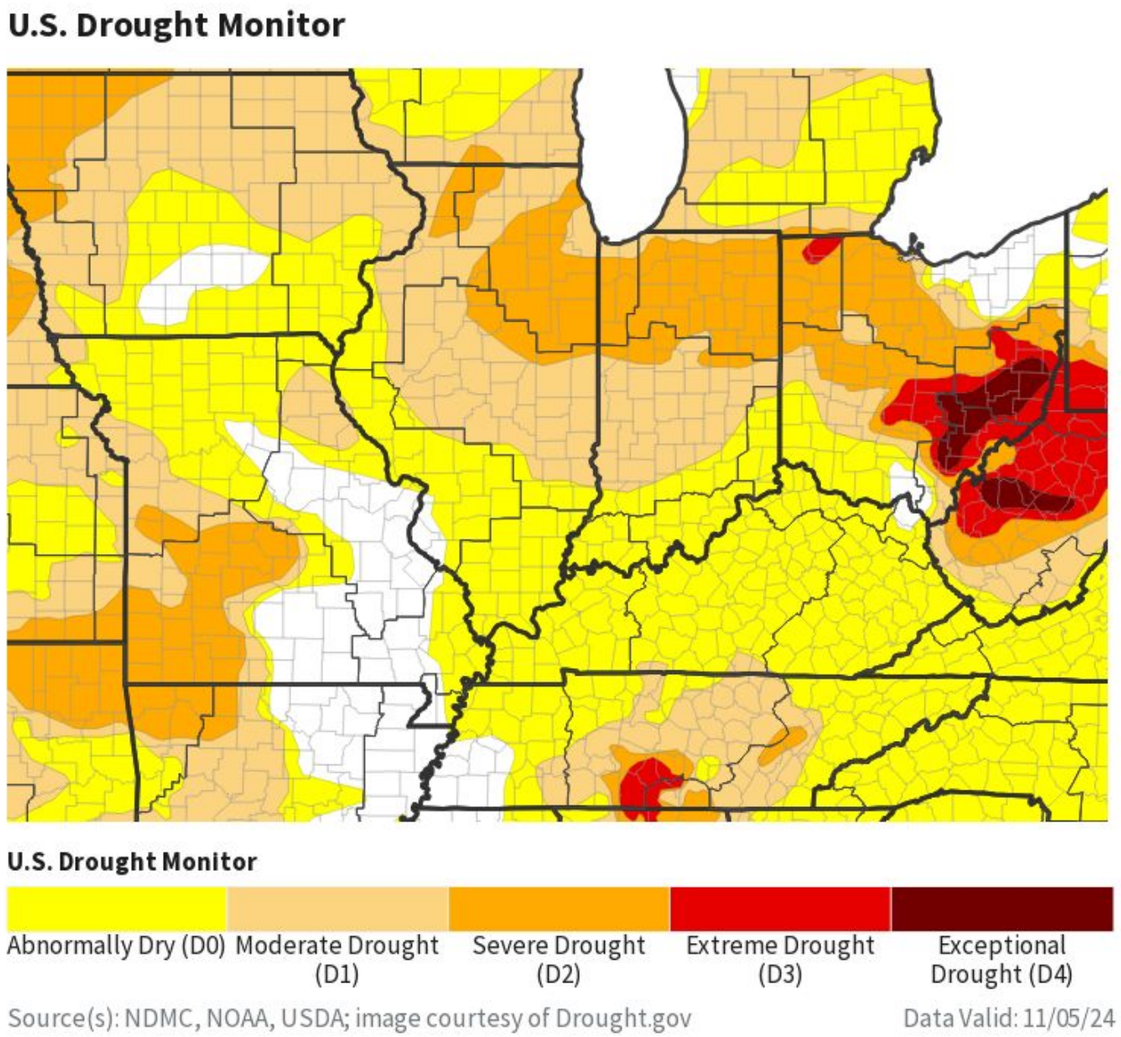
Link to the Latest U.S. Drought Monitor for Lower Midwest

- **Drought Generally Decreases across the Ozarks Region.**

- **Drought Intensity and Extent**
  - D2 (Severe Drought): Portions of McDonald, Newton, Jasper, Barton, Barry, Stone, Taney, Christian, Douglas, Webster, Greene, Dade, Morgan, Miller, Maries, Camden, Pulaski, Laclede, Dallas, St. Clair, Benton, Polk, Hickory, and Cedar counties in Missouri, as well as portions of Cherokee, Crawford Counties in Kansas.
  - D1 (Moderate Drought): Portions of previously mentioned D2 areas, in addition to portions of Ozark, Phelps, and Vernon Counties in Missouri and Bourbon County in Kansas.
  - D0: (Abnormally Dry): Portions of some previously mentioned D1 areas, as well as portions of Dent County in Missouri.



Drought Monitor - Last Week vs. This Week

November 7, 2024
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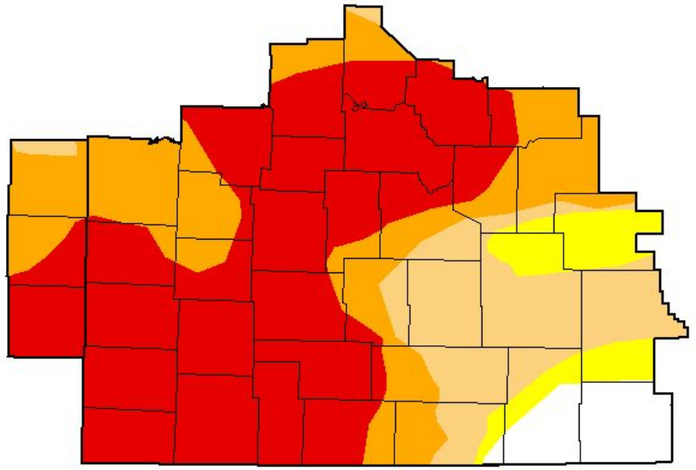
Link to the Latest U.S. Drought Monitor for Lower Midwest

Last Week (Oct 29)

U.S. Drought Monitor
Springfield, MO WFO



October 29, 2024
(Released Thursday, Oct. 31, 2024)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	5.43	94.57	88.49	72.34	49.43	0.00
Last Week *10-22-2024*	5.52	94.48	84.81	55.43	18.47	0.00
3 Months Ago *07-30-2024*	78.56	21.44	0.00	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 *10-31-2023*	39.96	60.04	39.07	20.13	2.85	0.00

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

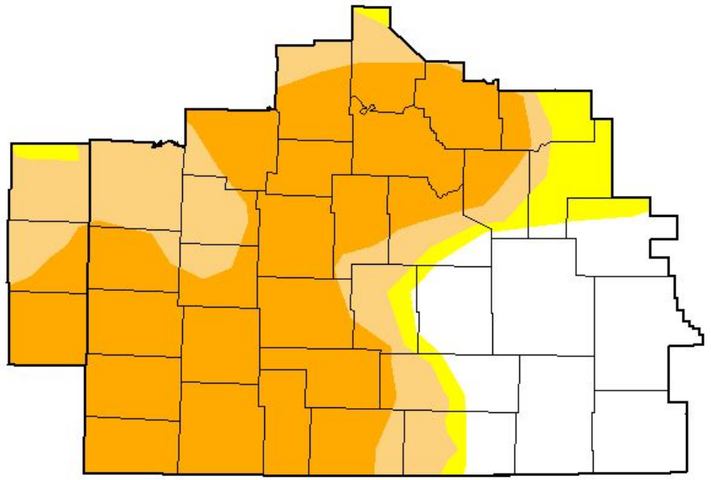
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

Author:
Brian Fuchs
National Drought Mitigation Center

droughtmonitor.unl.edu

Latest (Nov 5)

U.S. Drought Monitor
Springfield, MO WFO



November 5, 2024
(Released Thursday, Nov. 7, 2024)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	24.32	75.68	68.82	49.47	0.00	0.00
Last Week *10-29-2024*	5.43	94.57	88.49	72.34	49.43	0.00
3 Months Ago *08-06-2024*	59.72	40.28	0.00	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 *11-07-2023*	39.80	60.20	38.96	20.13	0.70	0.00

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

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Observed Precipitation in Last 7 Days

November 7, 2024
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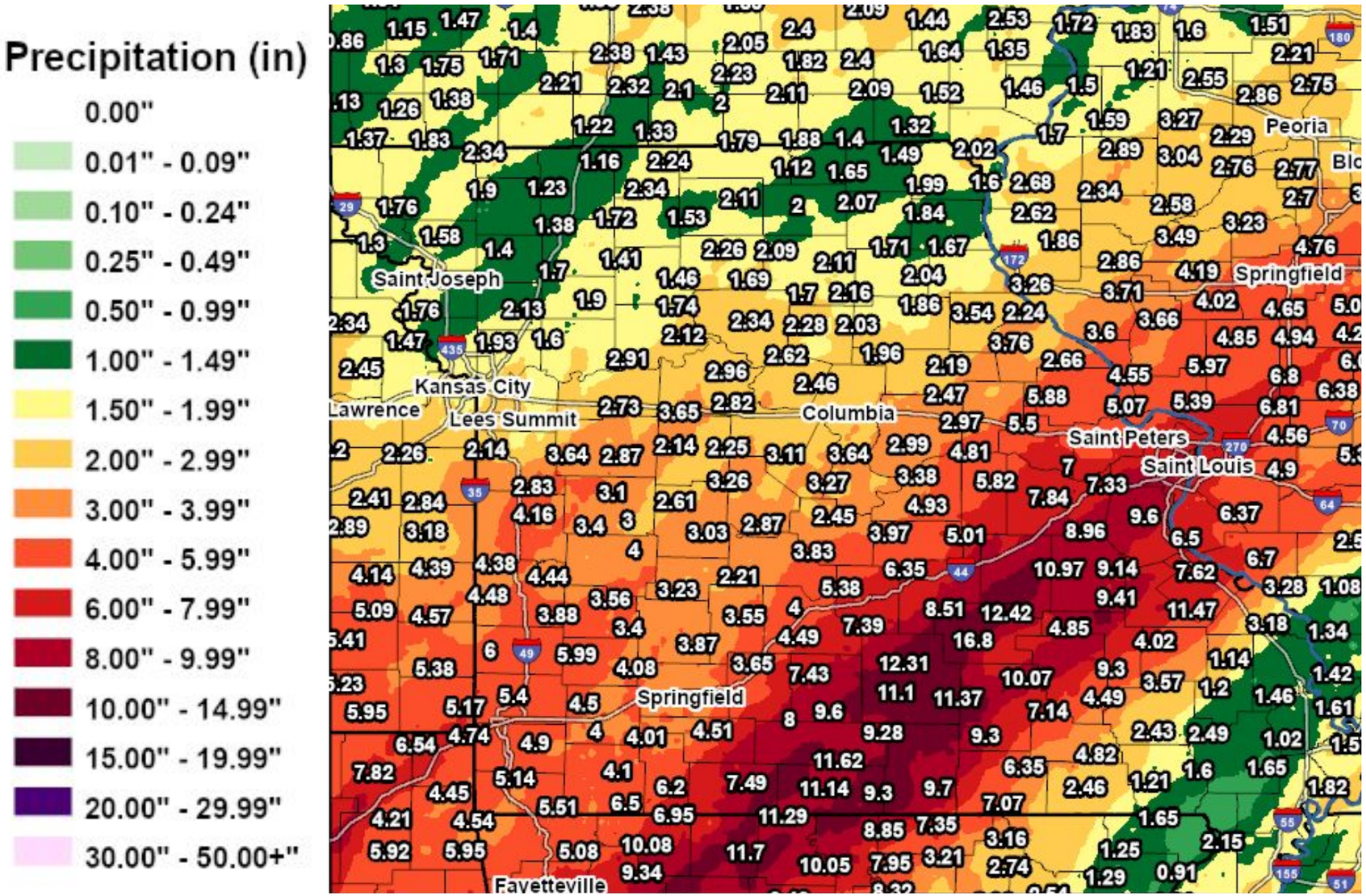

- Several rounds of heavy rain between November 2 and November 5 brought widespread accumulations of 2-4” of rain, with a large swath of central and south-central Missouri receiving over 11-12” of rain in 48 hours.
- Between November 2 and November 7, there was major to record-breaking river flooding on the Gasconade, Big Piney, Jacks Fork, and Current Rivers.
- Flooding is generally receded in most of the eastern Ozarks, but lingering elevated river levels could remain into the early weekend.

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

National Weather Service
Springfield, MO

State Drought Monitor

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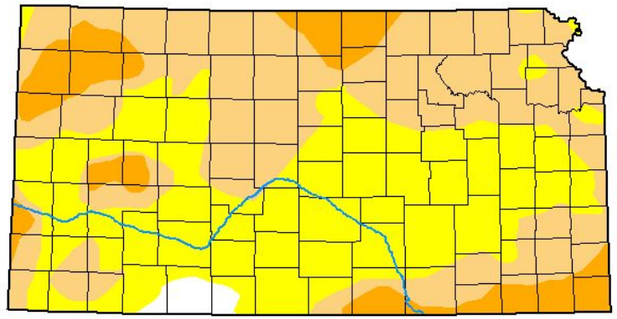
Link to Recent Change Maps

U.S. Drought Monitor
Kansas



November 5, 2024
(Released Thursday, Nov. 7, 2024)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	1.52	98.48	53.69	11.41	0.00	0.00
Last Week 10-29-2024	1.56	98.44	76.84	31.96	3.92	0.00
3 Months Ago 08-06-2024	7.05	92.95	46.64	6.52	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 11-07-2023	15.39	84.61	63.39	39.62	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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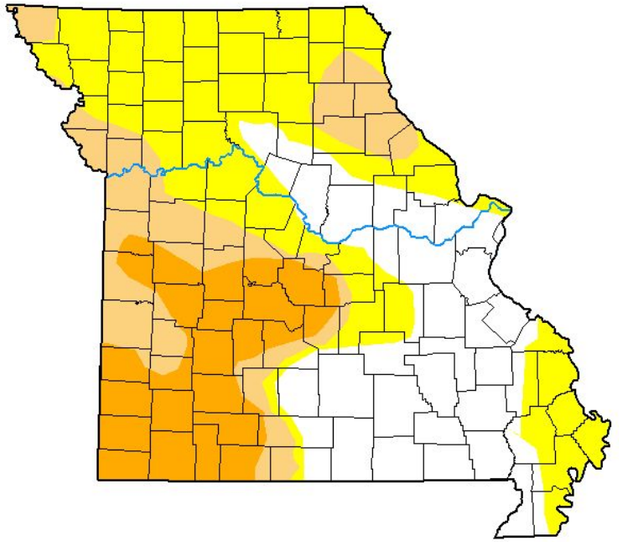
U.S. Drought Monitor
Missouri



November 5, 2024
(Released Thursday, Nov. 7, 2024)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	30.19	69.81	35.12	17.85	0.00	0.00
Last Week 10-29-2024	5.19	94.81	74.04	37.72	17.84	0.00
3 Months Ago 08-06-2024	63.51	36.49	0.00	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 11-07-2023	24.98	75.02	51.91	17.75	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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Main Takeaways

- D3 Drought has been eliminated in all areas previously under D3 conditions.
- Eastward extent of all drought conditions decreased.
- All rainfall through November 5 was included in the making of this update.

Recent Change in Drought Intensity

November 7, 2024
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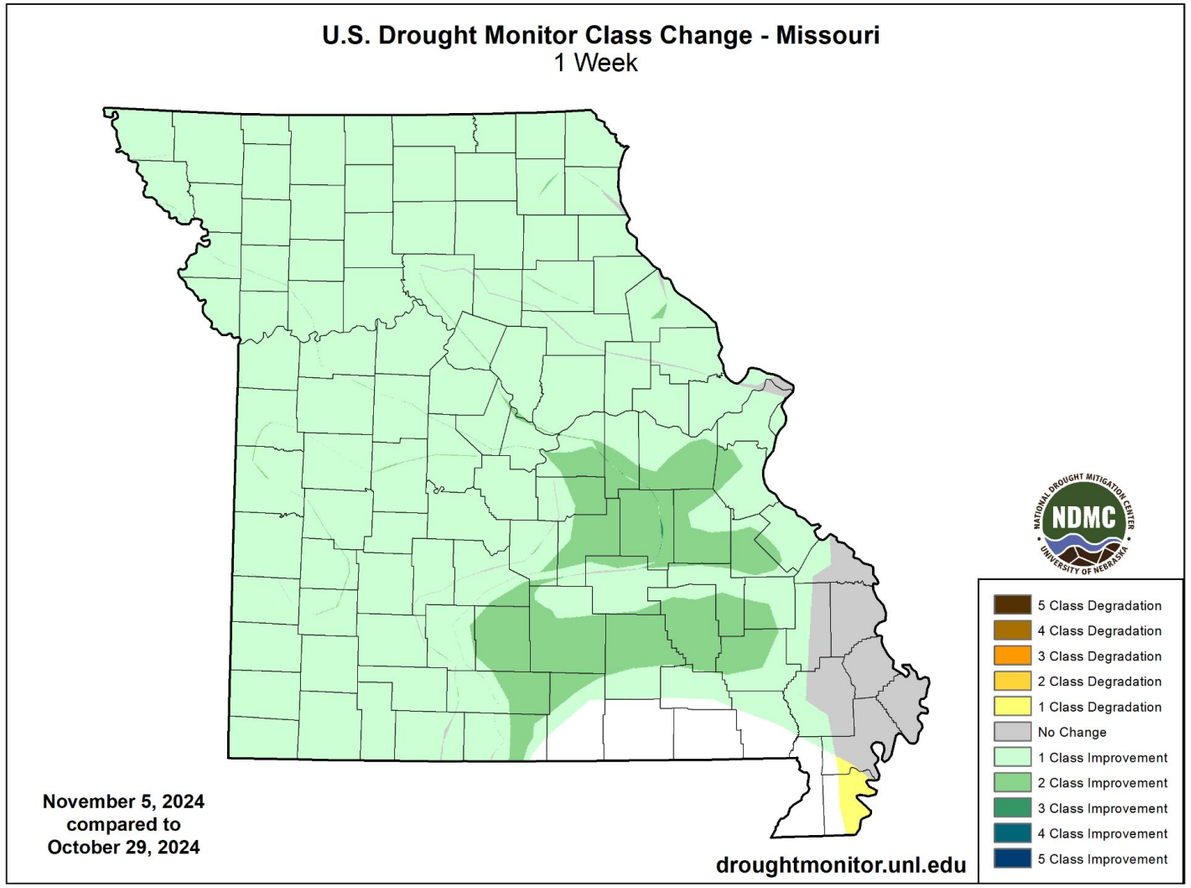
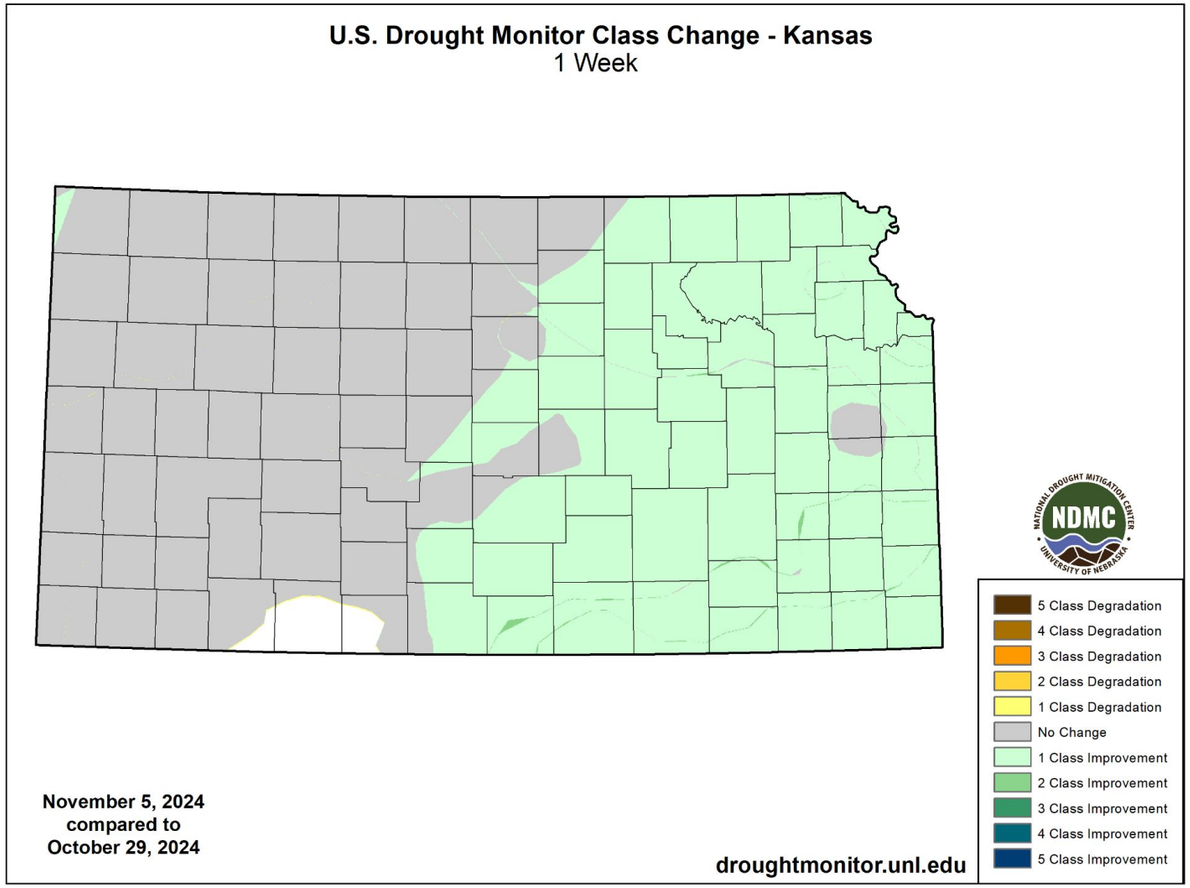
Link to Recent Change Maps





Main Takeaways

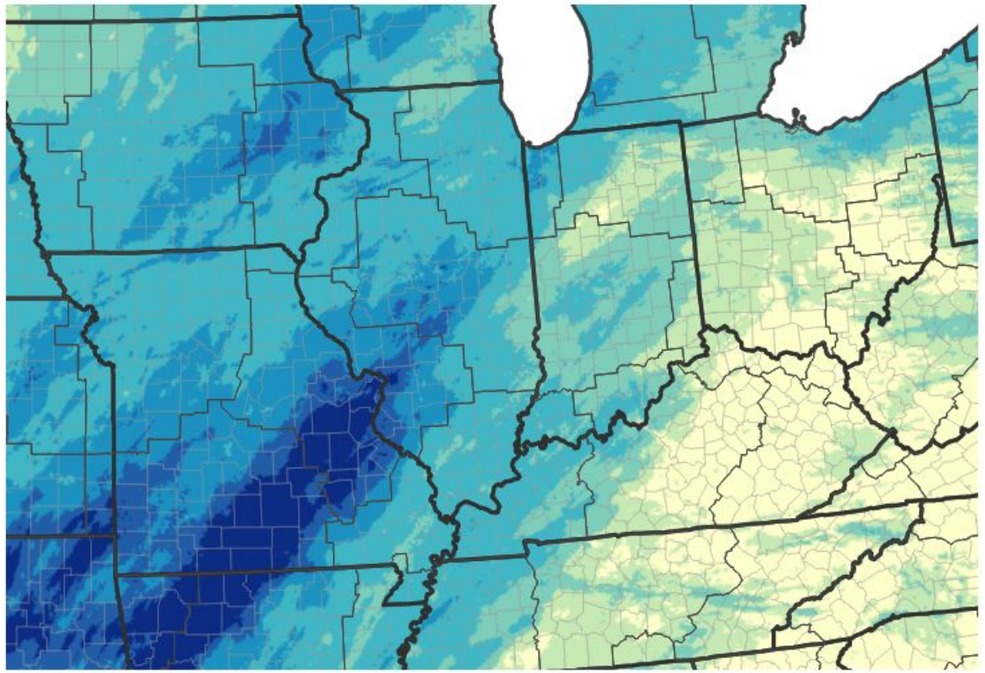
- Drought improved across all of southwest Missouri and much of southeast Kansas.
- Drought even improved by two categories in portions of central and south-central Missouri that received over 10” of rain.

30 Day Precipitation

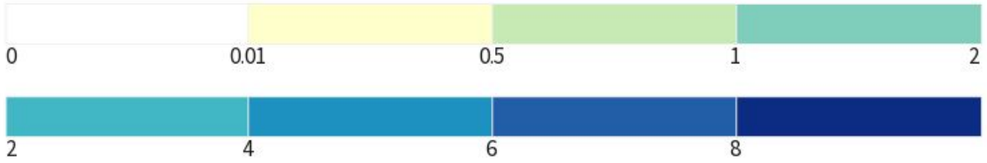
November 7, 2024
1:41 PM

Measured Rainfall

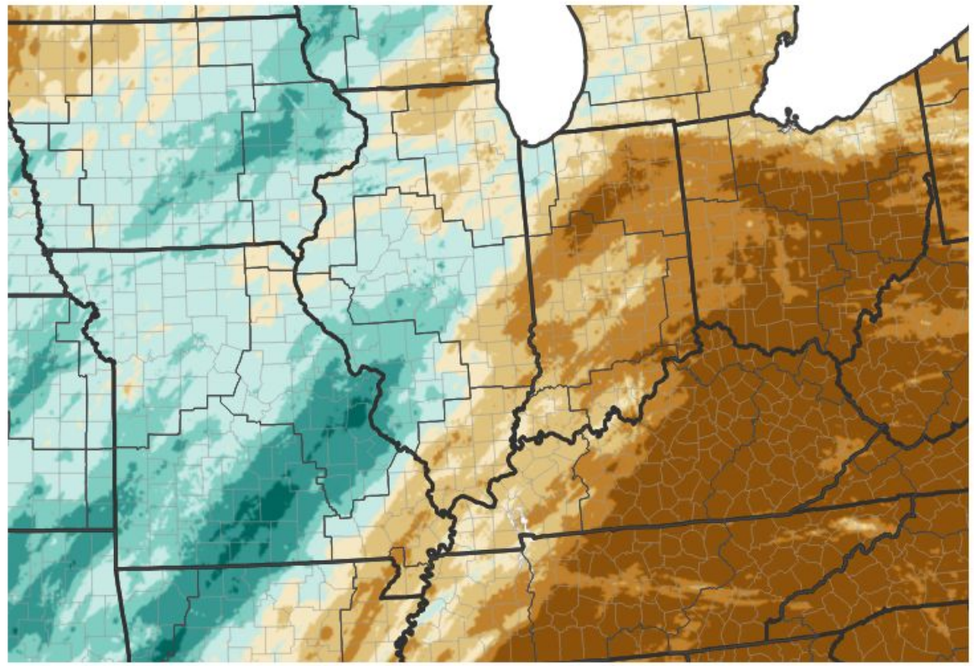
30-Day Precipitation Accumulations (Inches)



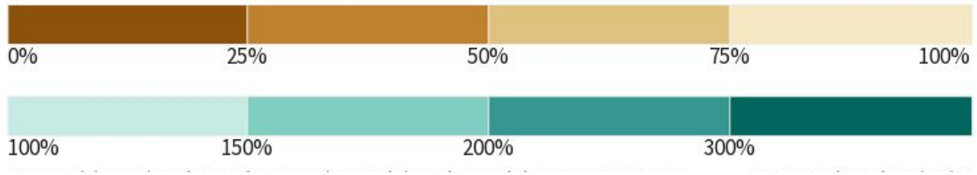
Inches of Precipitation



30-Day Percent of Normal Precipitation



Percent of Normal Precipitation (%)



Main Takeaways

- Recent heavy rainfall has significantly decreased 30 day precipitation deficit compared to normal, especially in south-central Missouri.

120 Day Precipitation

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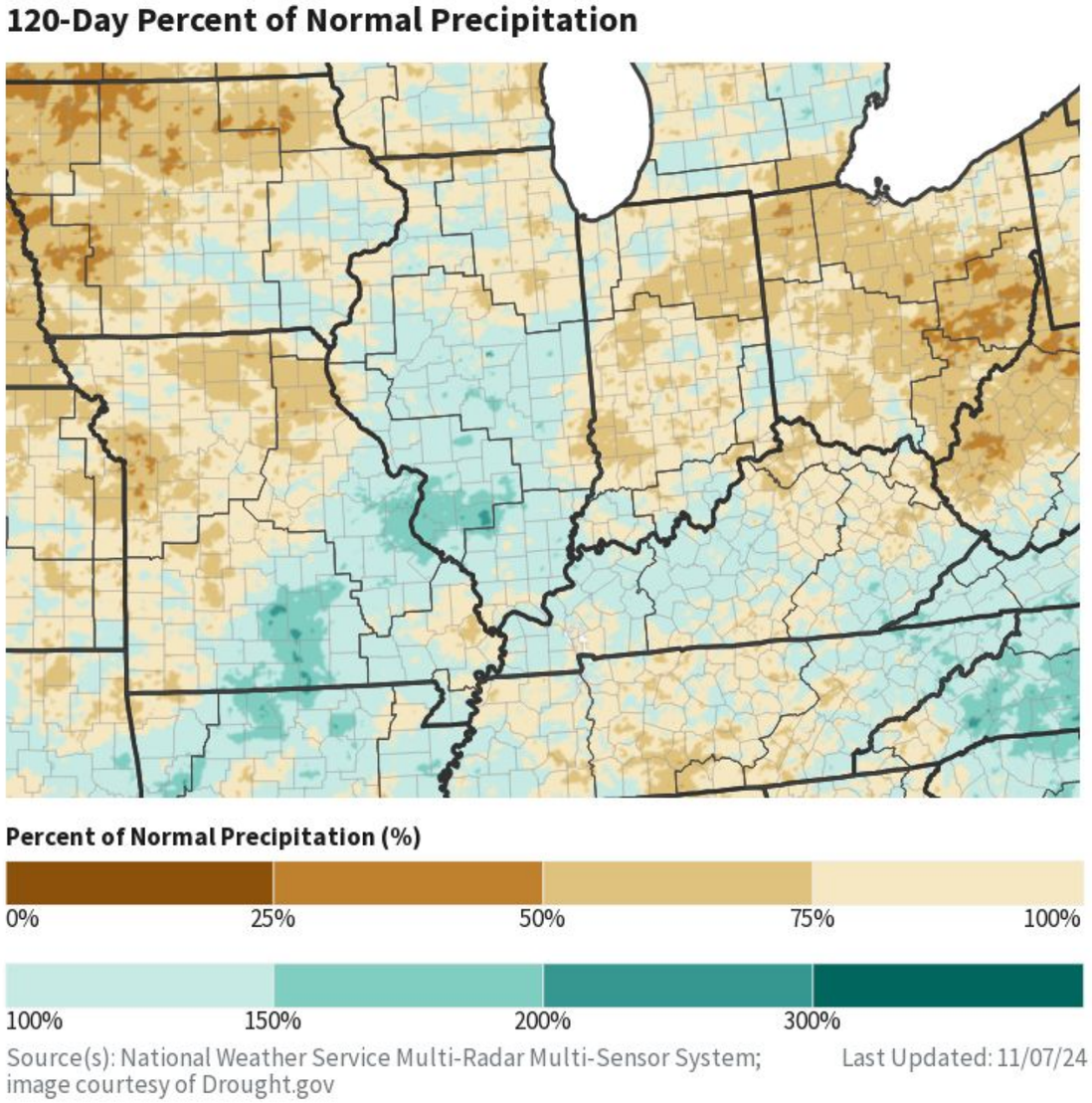
120-Day Percent of Normal Precipitation



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 worse drought conditions farther west remain near normal to below normal for four-month average precipitation values.

Hydrologic Conditions and Impacts

November 7, 2024
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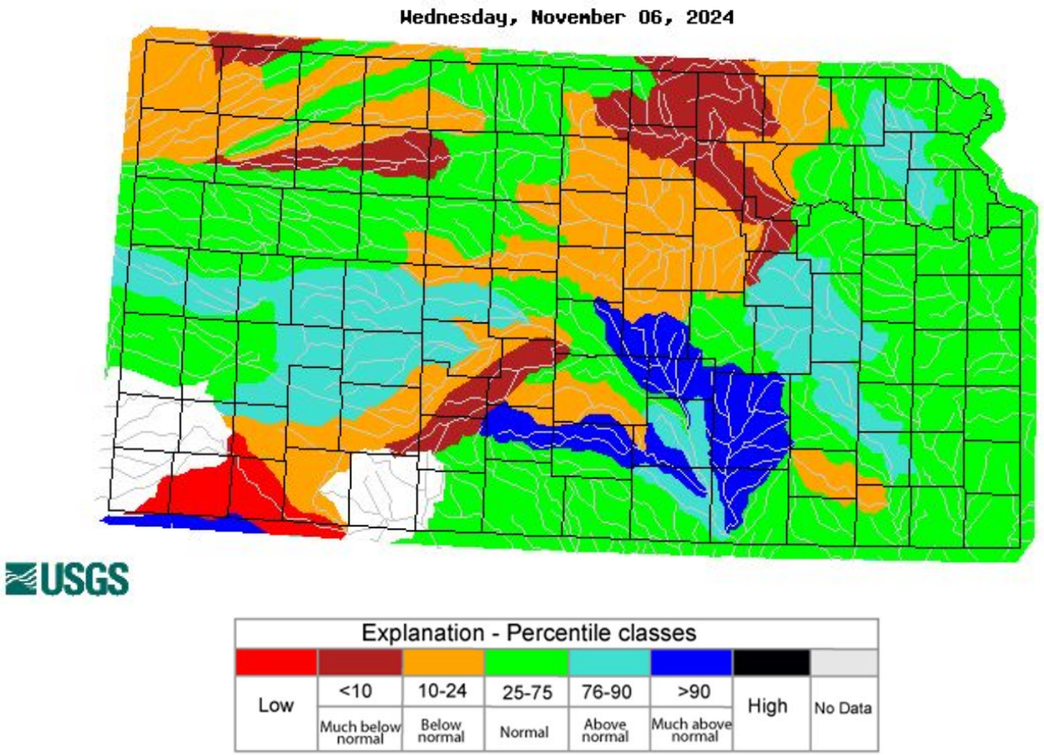

Image Caption: : [USGS 7 day average streamflow HUC map - Kansas]

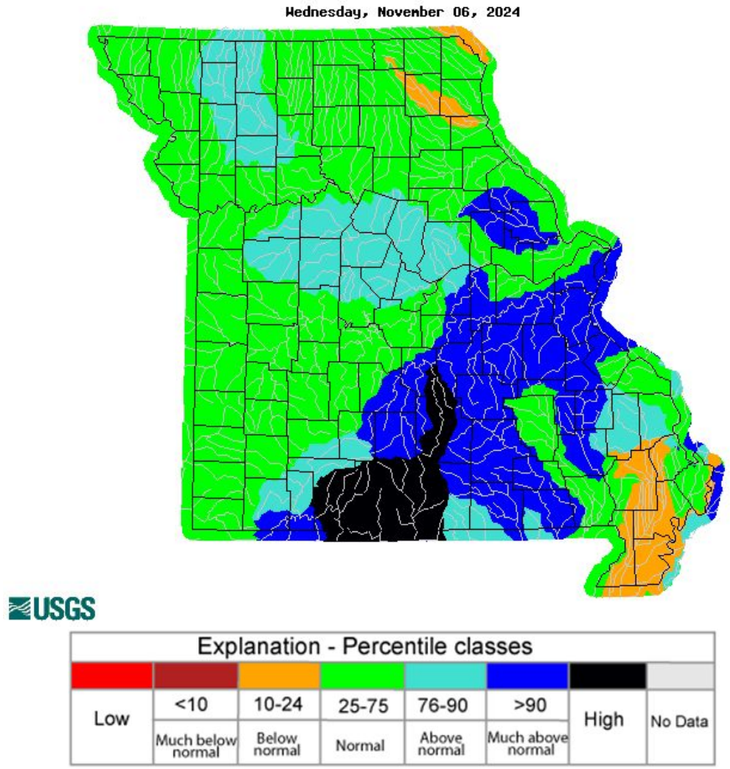

Image Caption: : [USGS 7 day average streamflow HUC map - Missouri]

Main Takeaways

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

Summary of Impacts

November 7, 2024
1:41 PM

Links: See/submit Condition Monitoring Observer Reports (CMOR) and view the Drought Impacts Reporter

Hydrologic Impacts

- Significant rainfall deficients were noted over southeast Kansas and across areas along and west of Highway 65 in Missouri. The Marmaton and Spring Rivers as well as most smaller creeks including some east of Highway 65 were in a low water threshold.

Agricultural Impacts

- Fall plantings have been impacted with wilting and bug infestation reported, some estimates show extreme degree of loss to near crop failure.
- Pastures are providing very little to no feed, requiring supplemental feeding in some regions.

Fire Hazard Impacts

- Local Fire Chiefs have reported a significant increase in grass fires and fire starts.
- Some area counties and municipalities have implemented burn bans due to dry conditions.

Mitigation actions

- The Missouri Department of Agriculture has an AgriStress Helpline at 833-897-2474.
- The University of Missouri Extension Office has set up a Psychological Service Clinic to aid farmers and ranchers.
- More information is available at muext.us/PSCFarmRanch.

Agricultural Impacts

November 7, 2024
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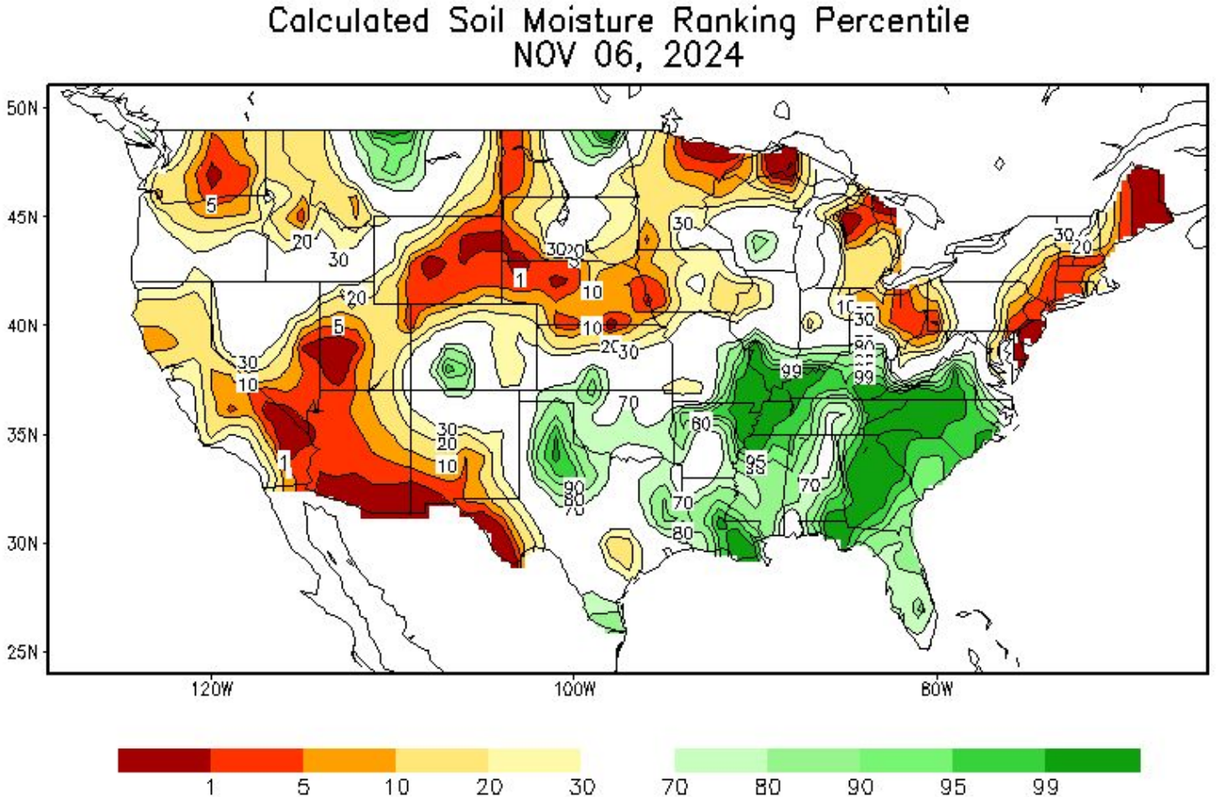
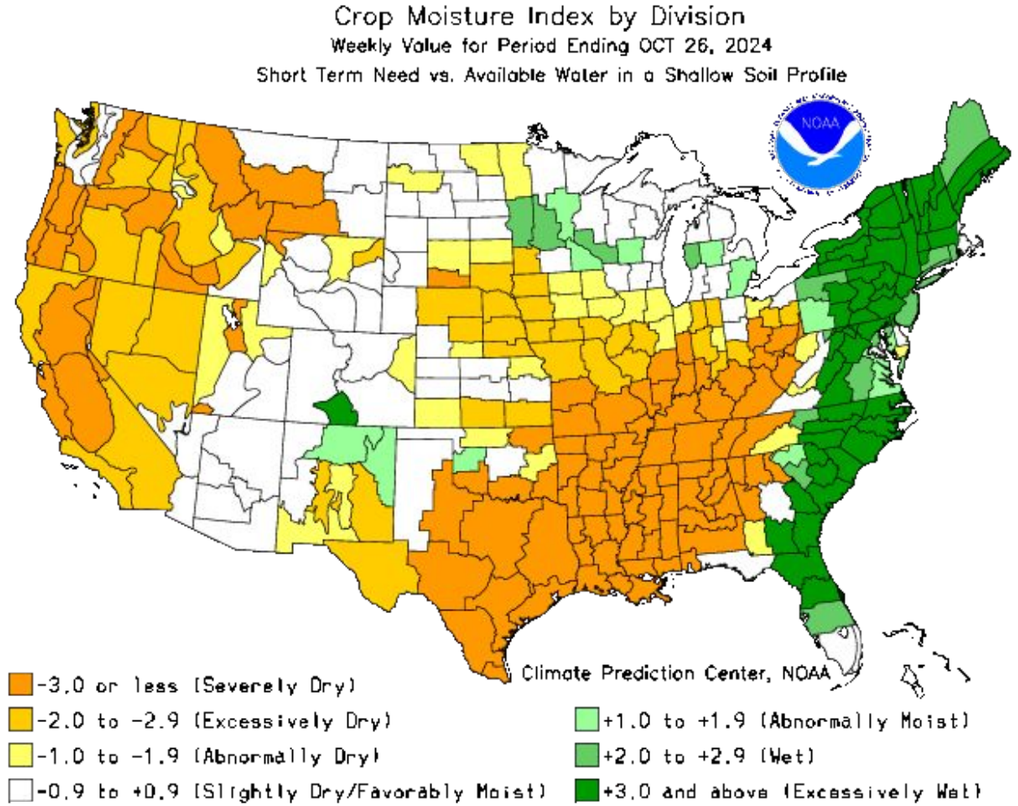


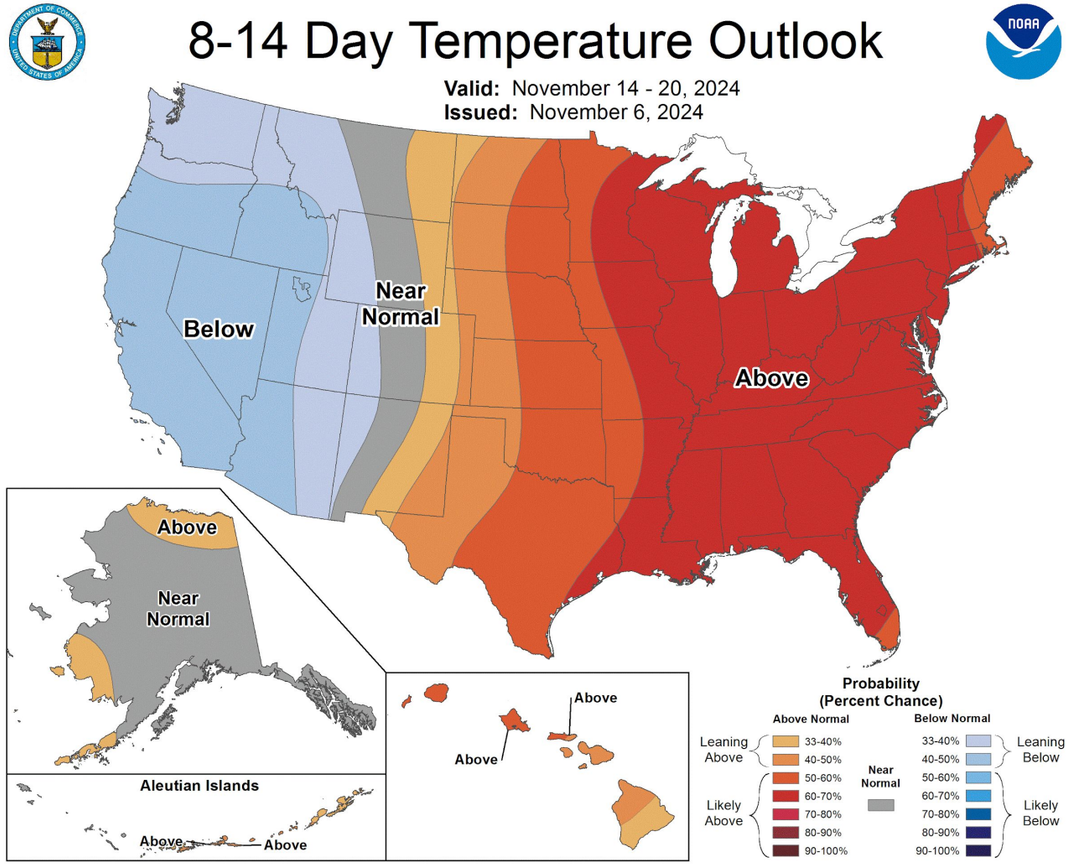


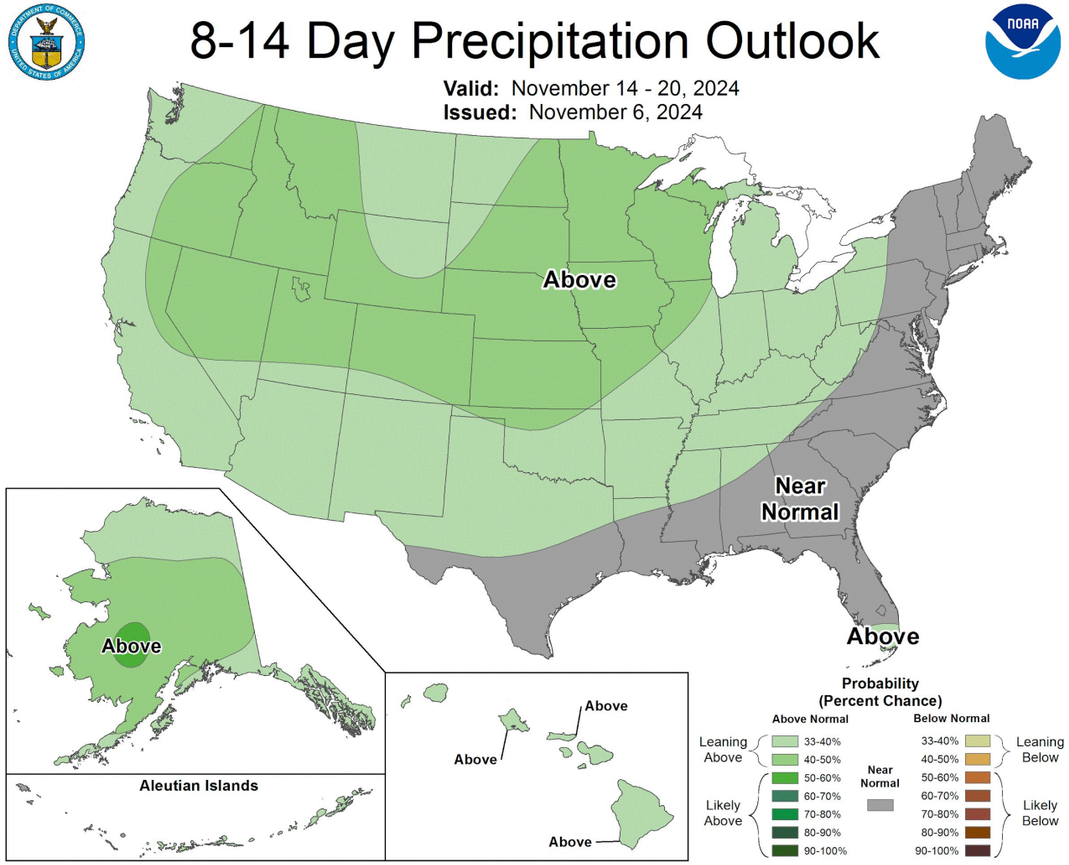
- Significant portions of the Missouri Ozarks and and far SE Kansas recorded as many as 31 days without measurable rainfall. For some locations this extended period was in the Top 5 longest stretches of no rainfall on record.

8 to 14 Day Outlooks

November 7, 2024
1:41 PM

The Latest Monthly and Seasonal Outlooks can be Found on the CPC homepage





Main Takeaways

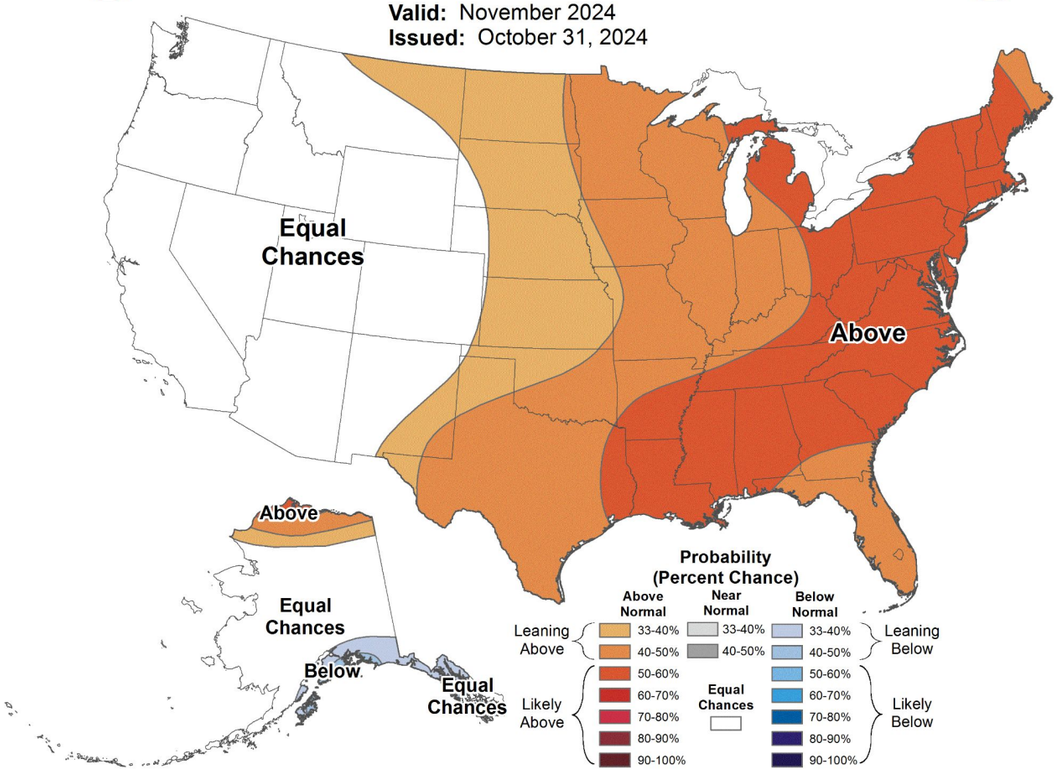
- Above-average temperatures look to continue into at least mid-November.
- Precipitation slightly leans toward an above-average outlook into mid-November.

October Monthly Outlooks

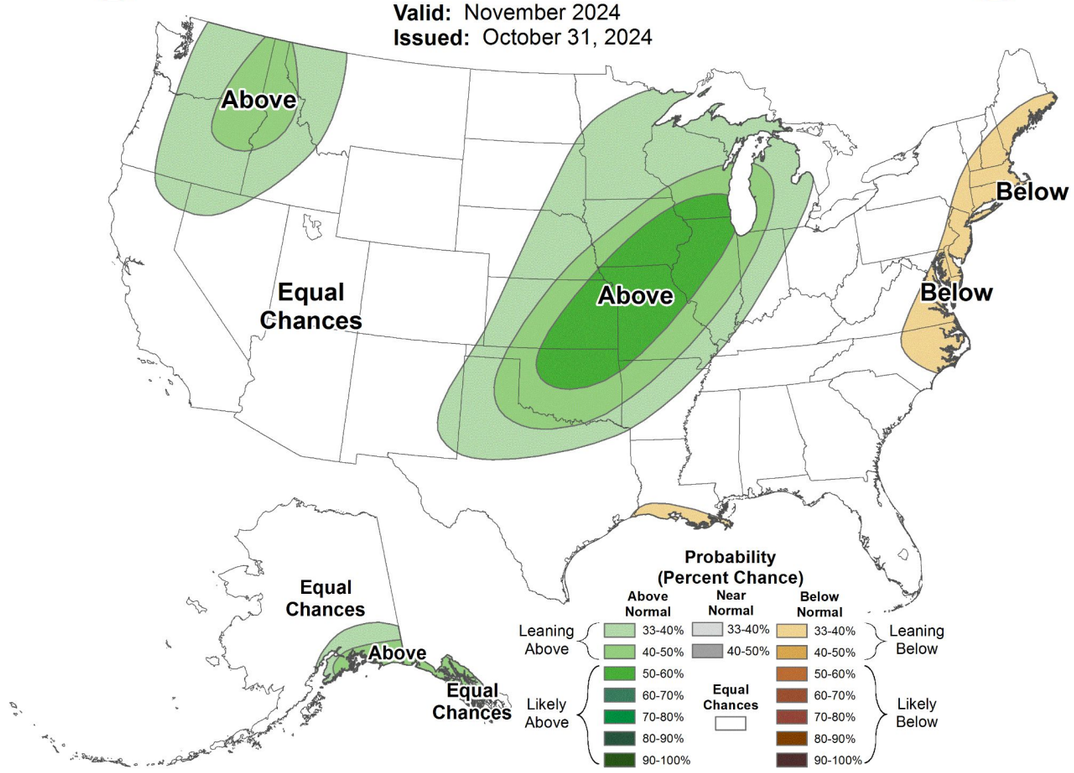
November 7, 2024
1:41 PM

The Latest Monthly and Seasonal Outlooks can be Found on the CPC homepage

Monthly Temperature Outlook



Monthly Precipitation Outlook



Main Takeaways

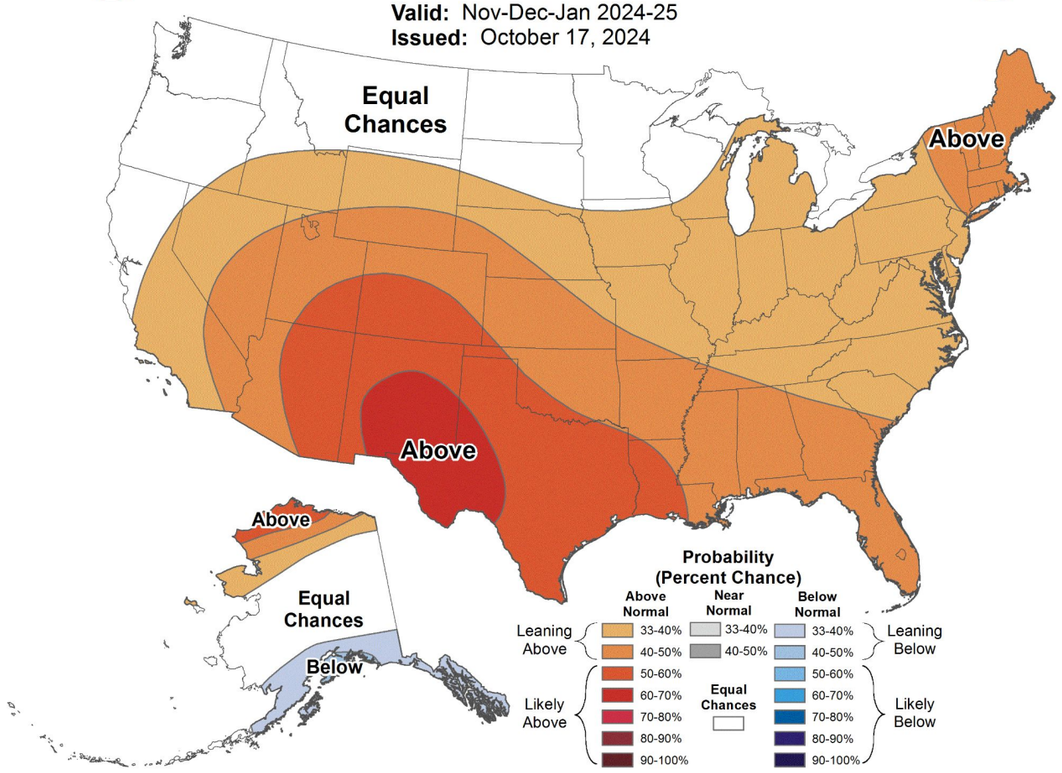
- The temperature pattern is leaning toward above-normal temperatures for November.
- The precipitation outlook favors an above-normal amount of rainfall in November, which is partially due to a strong bias from the recent heavy rainfall event during the first week of November.

Seasonal Outlooks

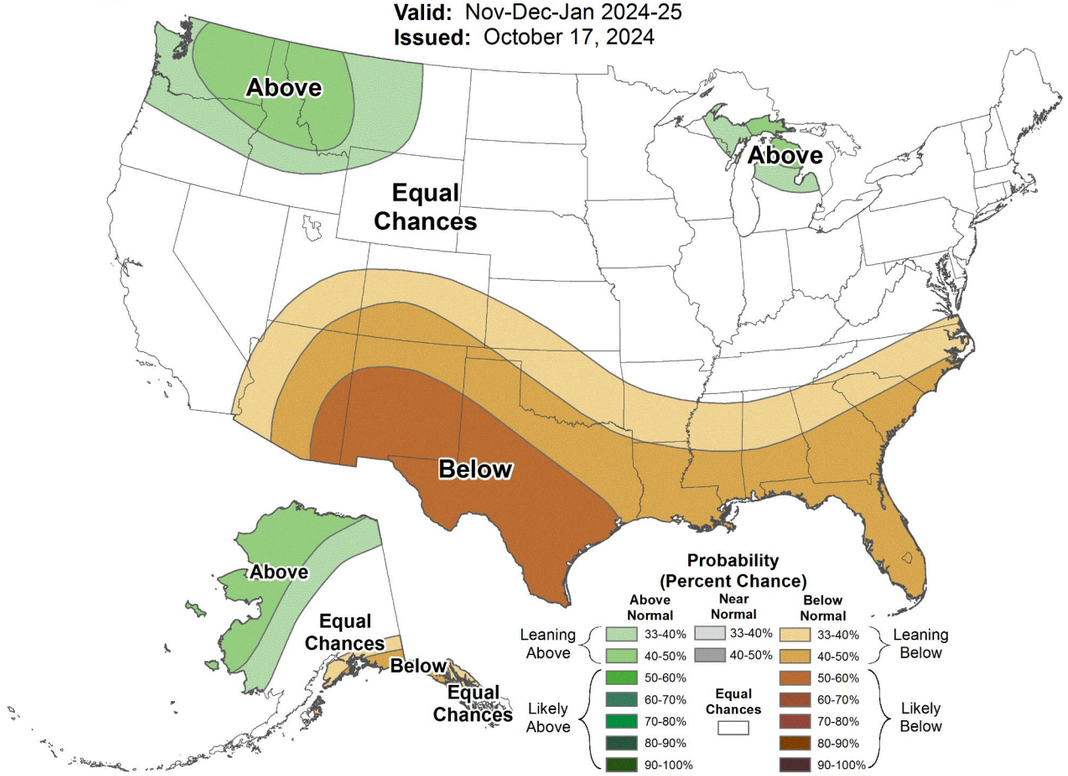
November 7, 2024
1:41 PM

The latest monthly and seasonal outlooks can be found on the CPC homepage

Seasonal Temperature Outlook



Seasonal Precipitation Outlook



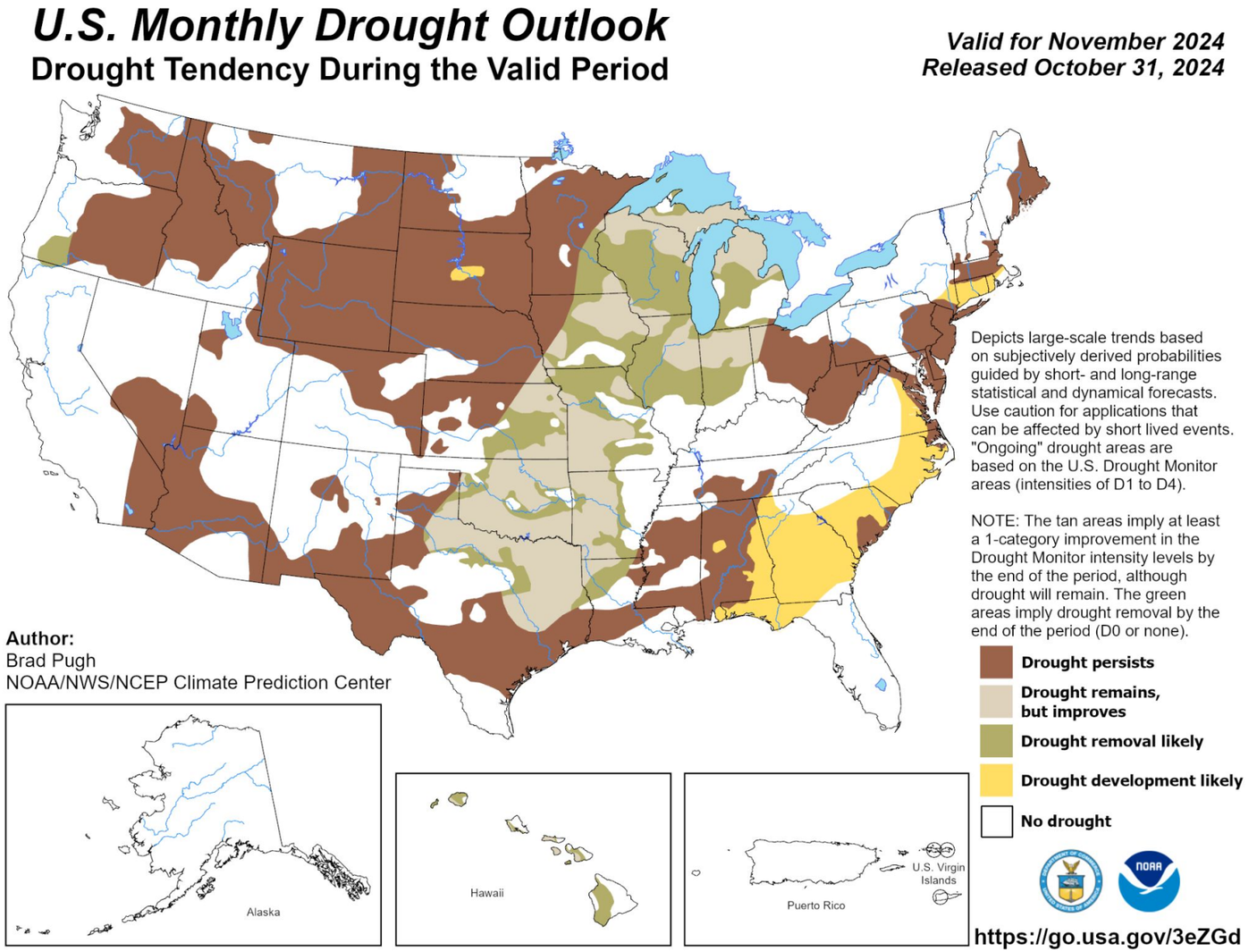
Main Takeaways

- Outlooks very slightly favor above average temperatures and near average precipitation

Drought Outlook

November 7, 2024
1:41 PM

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



Main Takeaways

- Drought should improve or be removed altogether in most of southwest Missouri and southeast Kansas.

Additional Drought Resources

November 7, 2024
1:41 PM

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