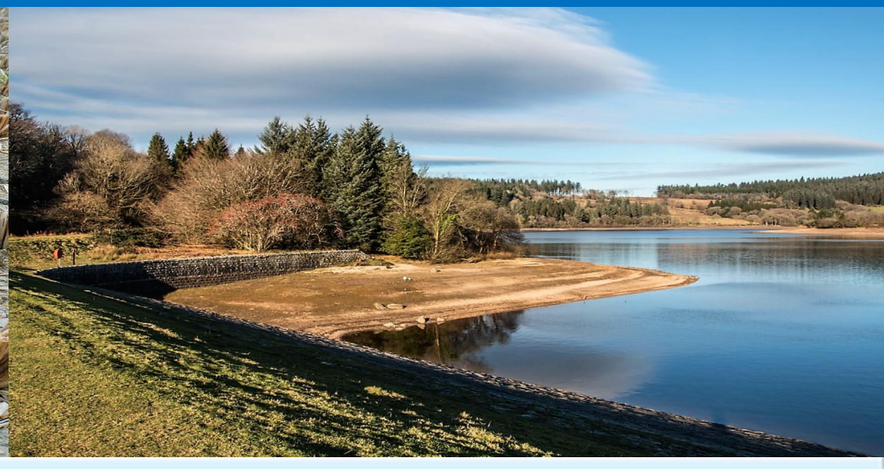
Drought Information Statement for the Missouri Ozarks

Valid October 29, 2024

Issued By: *WFO Springfield, MO*
Contact Information: *contact.sgf@noaa.gov*

- This product will be updated November 7, 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.



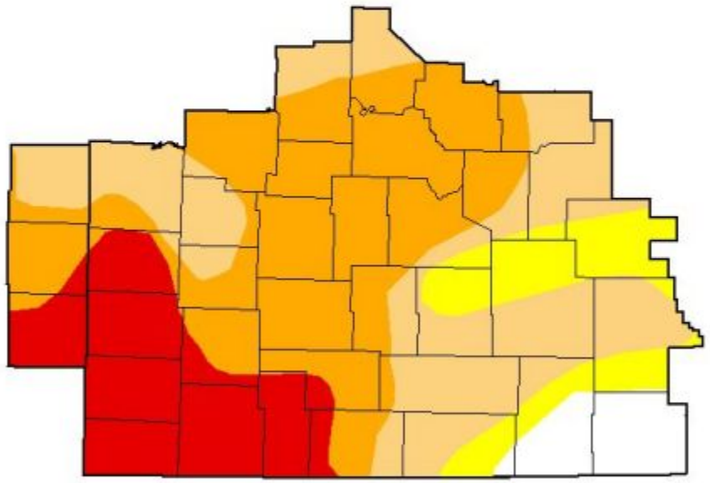


U.S. Drought Monitor

October 31, 2024
12:23 PM

Link to the latest U.S. Drought Monitor for Lower Midwest

U.S. Drought Monitor
Springfield, MO WFO



October 22, 2024
(Released Thursday, Oct. 24, 2024)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	5.52	94.48	84.81	55.43	18.47	0.00
Last Week 10-15-2024	12.05	87.95	67.77	39.98	13.92	0.00
3 Months Ago 07-23-2024	96.80	3.20	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 10-24-2023	36.17	63.83	50.75	24.62	9.34	0.00

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

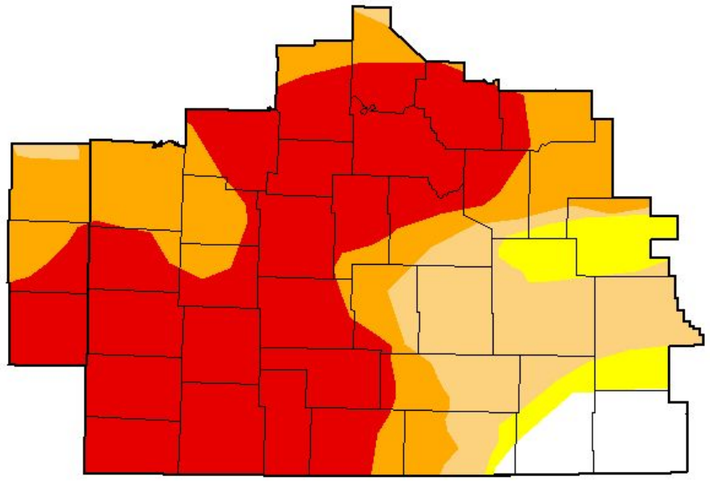
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.as

Author:
Rocky Bilotta
NCEI/NOAA

droughtmonitor.unl.edu

Last Week (Oct 22)

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
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- D1 Moderate Drought
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Author:
Brian Fuchs
National Drought Mitigation Center

droughtmonitor.unl.edu

Latest (Oct 29)

State Drought Monitor

October 31, 2024
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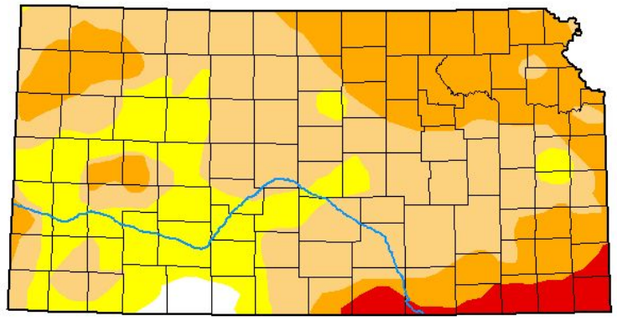
Link to Recent Change Maps

U.S. Drought Monitor
Kansas



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	1.56	98.44	76.84	31.96	3.92	0.00
Last Week 10-22-2024	1.72	98.28	75.62	25.89	2.06	0.00
3 Months Ago 07-30-2024	11.19	88.81	36.23	4.29	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 10-31-2023	15.59	84.41	63.25	39.30	7.55	0.00

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

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Author:
Brian Fuchs
National Drought Mitigation Center

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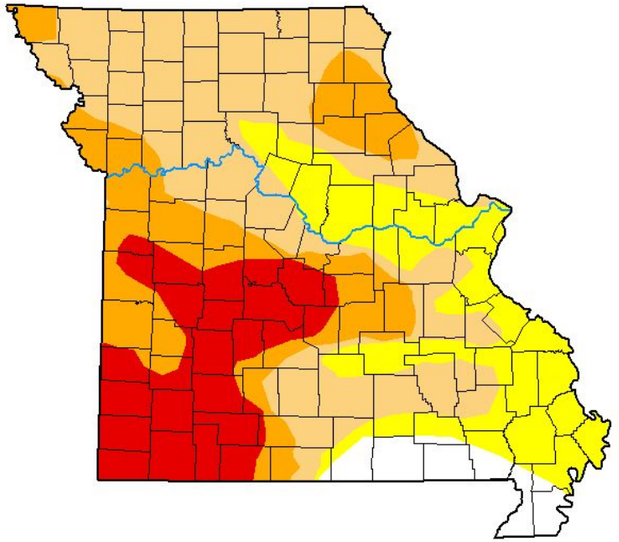
U.S. Drought Monitor
Missouri



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	5.19	94.81	74.04	37.72	17.84	0.00
Last Week 10-22-2024	5.85	94.15	65.18	25.45	5.74	0.00
3 Months Ago 07-30-2024	93.38	6.62	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 10-31-2023	25.05	74.95	49.99	16.69	1.80	0.00

Intensity:
- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
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Author:
Brian Fuchs
National Drought Mitigation Center

droughtmonitor.unl.edu

Main Takeaways

- Continued expansion of drought conditions across the area
- Impacts continue to expand indicated via Drought Impacts Reporter
- Rainfall from October 30th and forecast rainfall through November 5th is not included in the October 29th Drought Monitor

Recent Change in Drought Intensity

October 31, 2024
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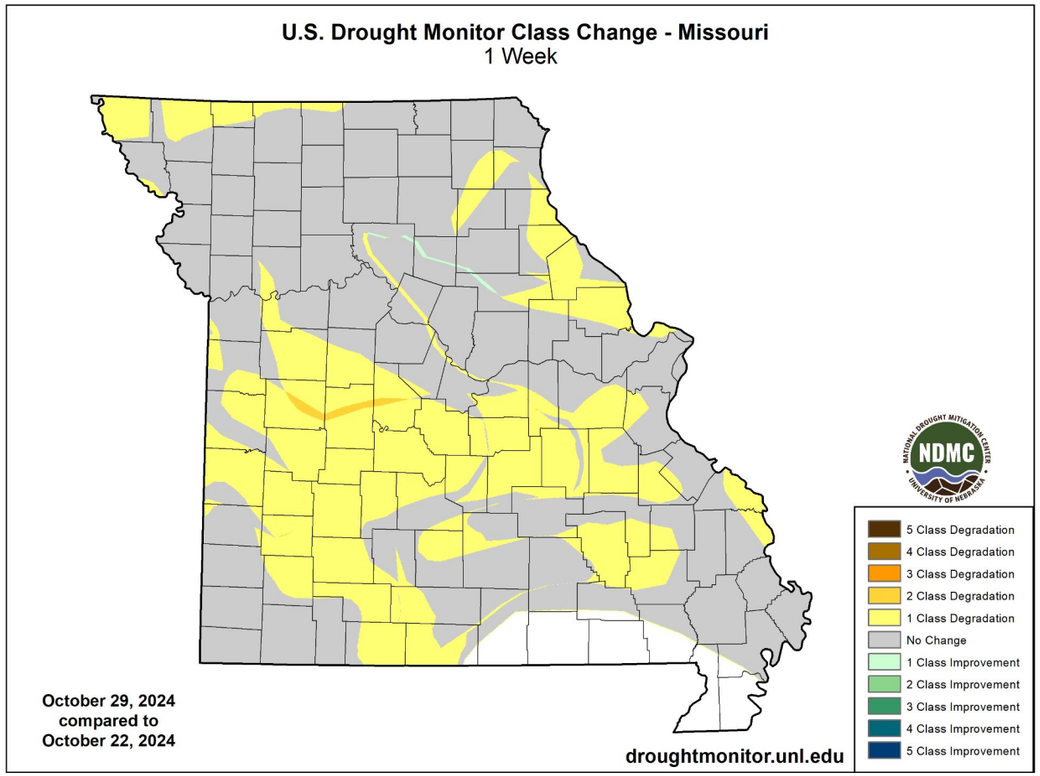
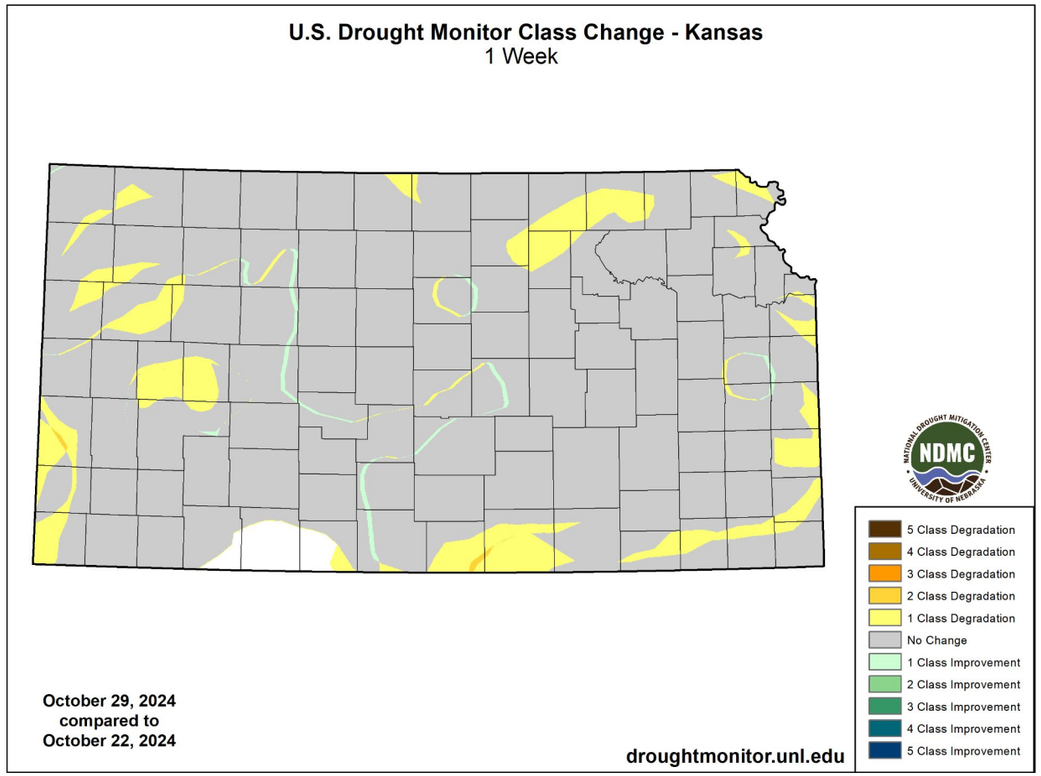
Link to Recent Change Maps





Main Takeaways

- Expansion of drought conditions across the area continued

Precipitation

October 31, 2024
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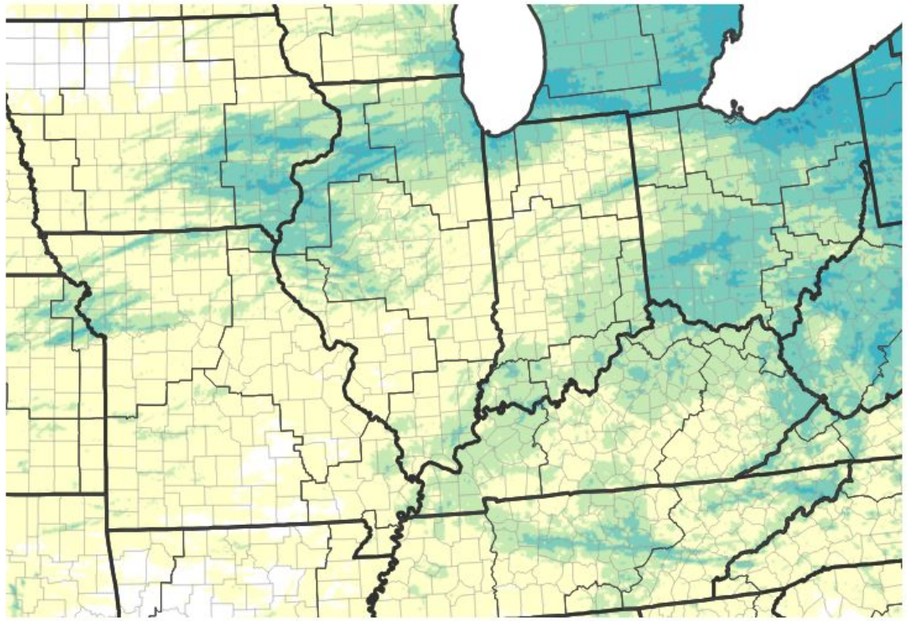
Measured Rainfall

30-Day Precipitation Accumulations (Inches)



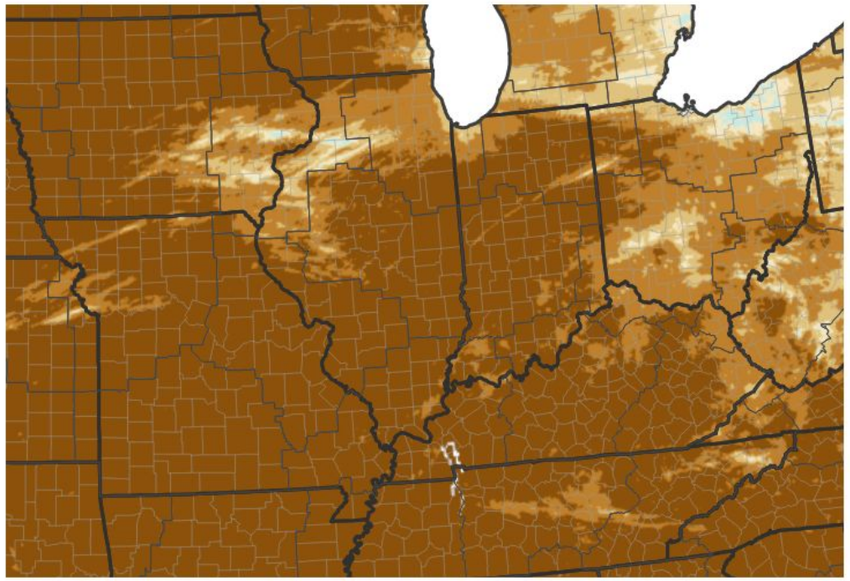
Inches of Precipitation

0 | 0.01 | 0.5 | 1 | 2

2 | 4 | 6 | 8

Source(s): National Weather Service Multi-Radar Multi-Sensor System; Last Updated: 10/30/24

30-Day Percent of Normal Precipitation



Percent of Normal Precipitation (%)

0% | 25% | 50% | 75% | 100%

100% | 150% | 200% | 300%

Source(s): National Weather Service Multi-Radar Multi-Sensor System; image courtesy of Drought.gov Last Updated: 10/30/24

Main Takeaways

- Nearly all areas saw less than average rain…with some receiving less than 25% of average over the past month through Oct 29th.
- Rainfall that occurred on Oct 30th and forecast rainfall through Nov 5th is not included

Precipitation

October 31, 2024
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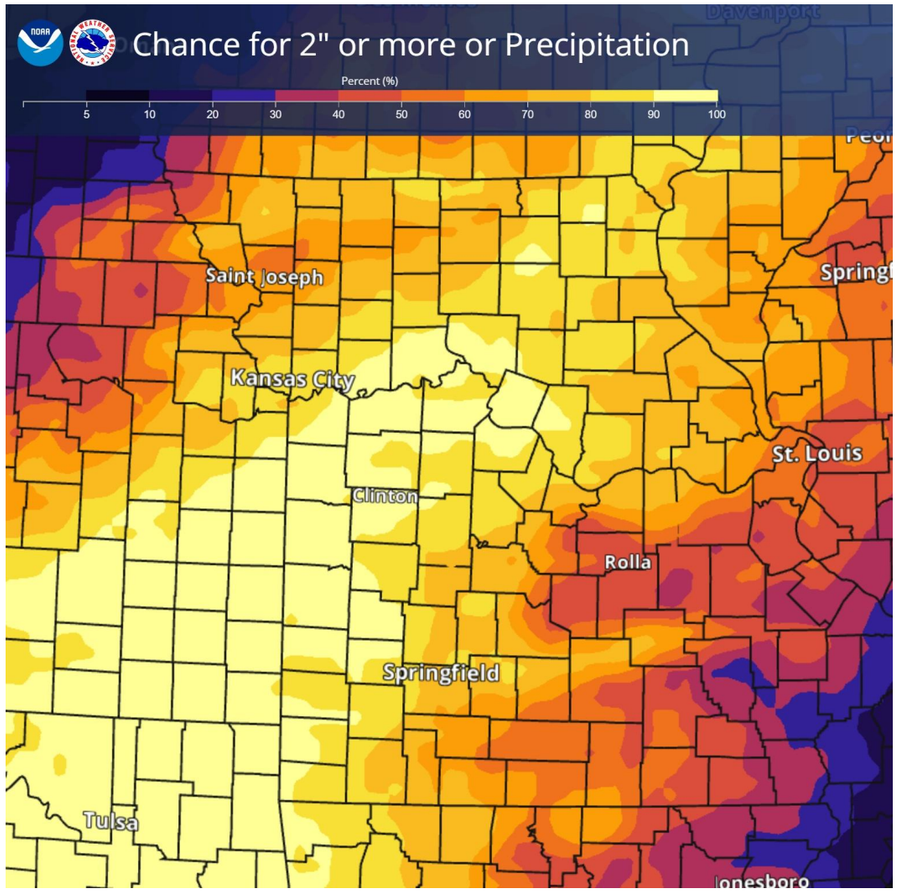
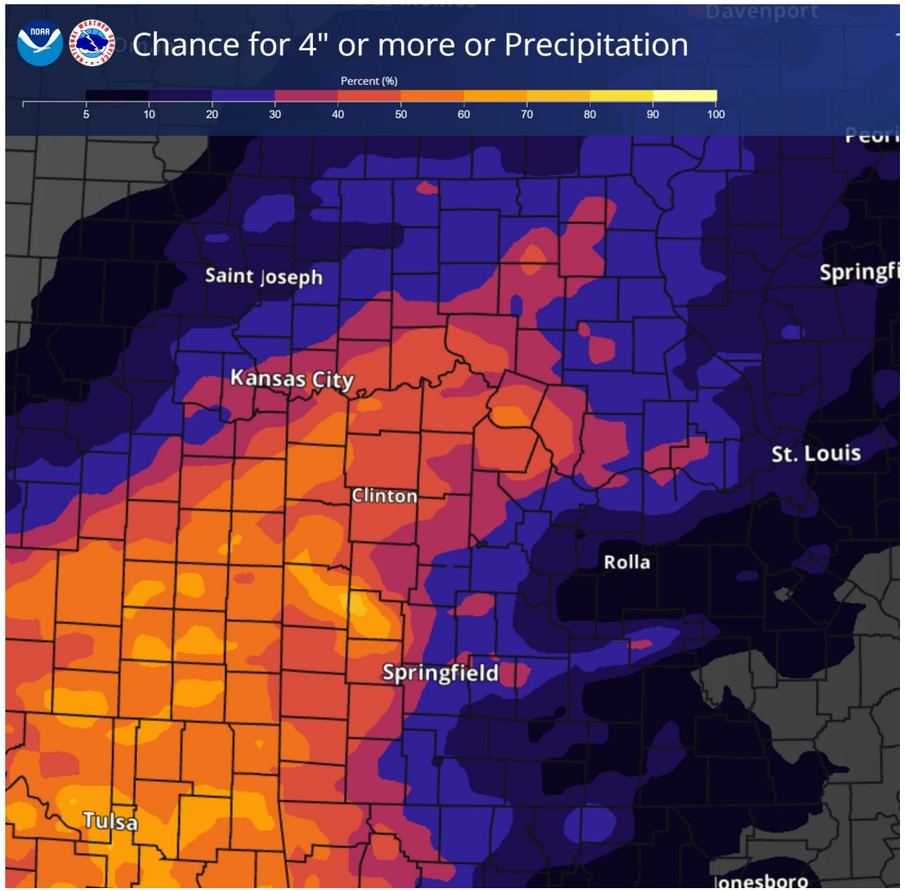
Supplemental forecast rainfall probabilities - Nov 2nd through Nov 5th





Main Takeaways

- Model probabilistic forecasts for precipitation across the Ozarks and SE Kansas indicate a 60-95% chance of 2” or more of rain through the period and from 40-60% chance for 4” or more (mainly along and west of Highway 65) .
- The greatest potential for impactful rainfall will be across SW Missouri mainly along and west of Highway 65.

Hydrologic Conditions and Impacts

October 31, 2024
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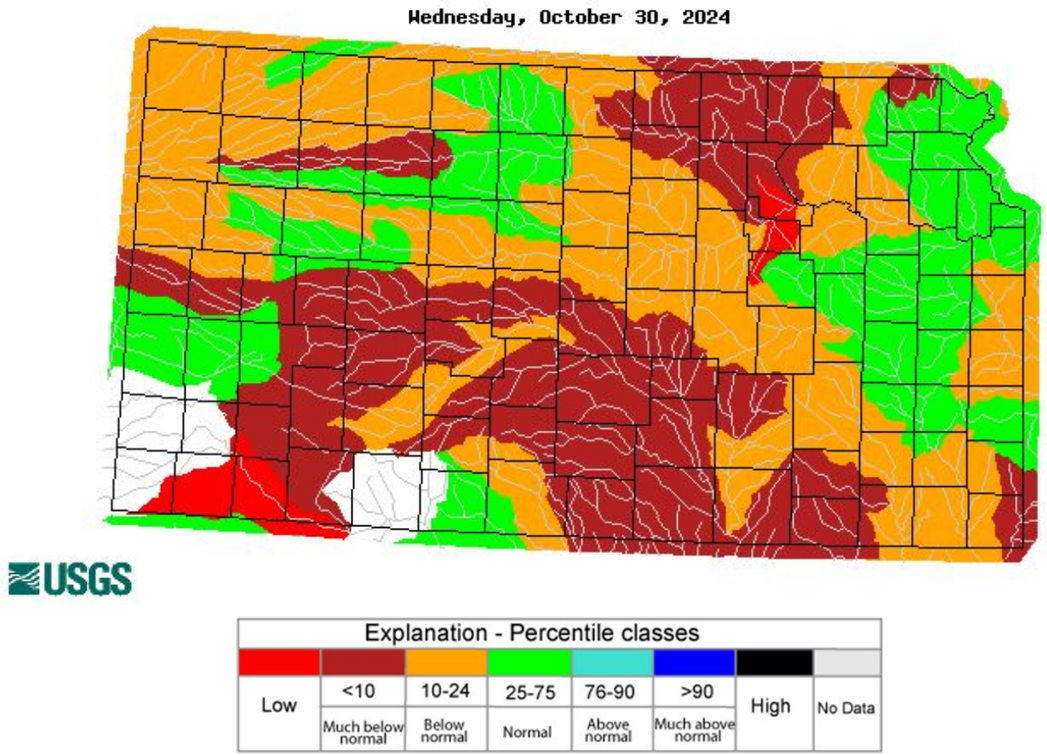


Image Caption: : [USGS 7 day average streamflow HUC map - Kansas](#).

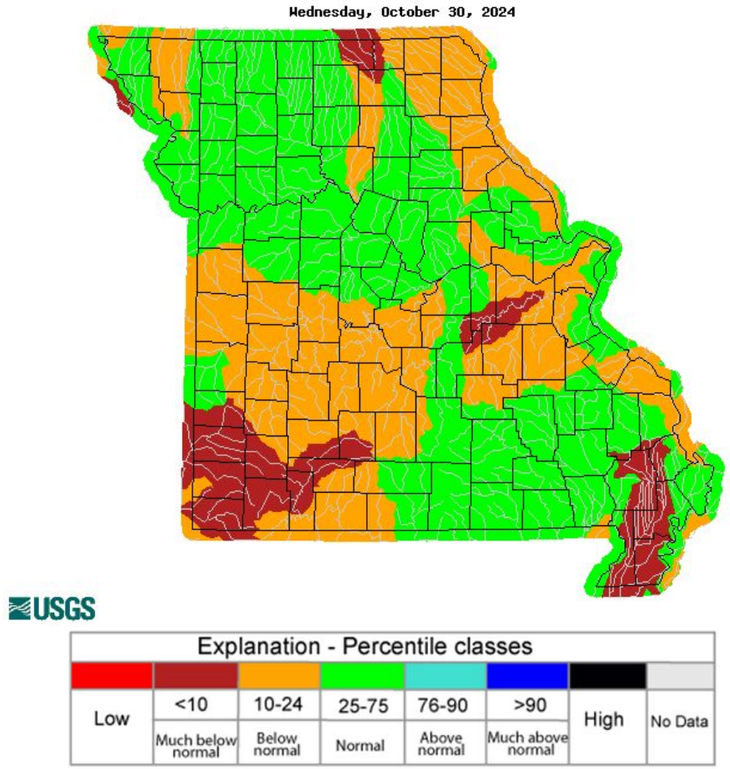


Image Caption: : [USGS 7 day average streamflow HUC map - Missouri](#).

Main Takeaways

- Streamflows over the past week over Southeast Kansas into western Missouri are <10% to 24% of normal.
- Sufficient rain and spring-fed streams over much of Missouri remained at 25-75% of normal flow.

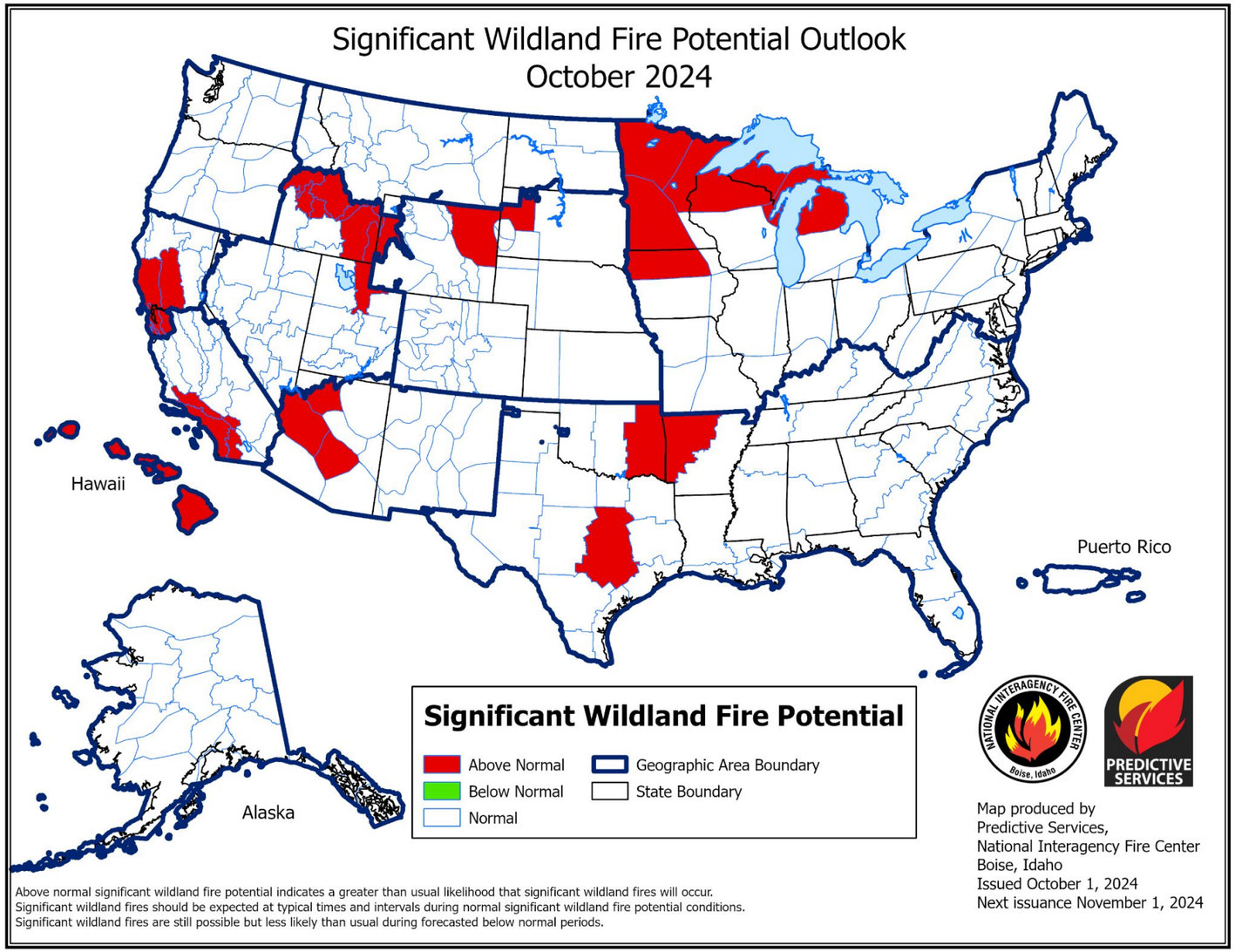
Fire Hazard Impacts

October 31, 2024
12:23 PM

Link to [Wildfire Potential Outlooks from the National Interagency Coordination Center.]

Main Takeaways

- **CHANGE FROM LAST WEEK:** The NICC removed the Ozarks from above normal Significant Wildland Fire Potential for October. However, drought expansion continues for parts of the Ozarks.
- Recent and expected rainfall over the next 7 days is expected to significantly limit wildfire potential across the Ozarks.



Summary of Impacts

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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

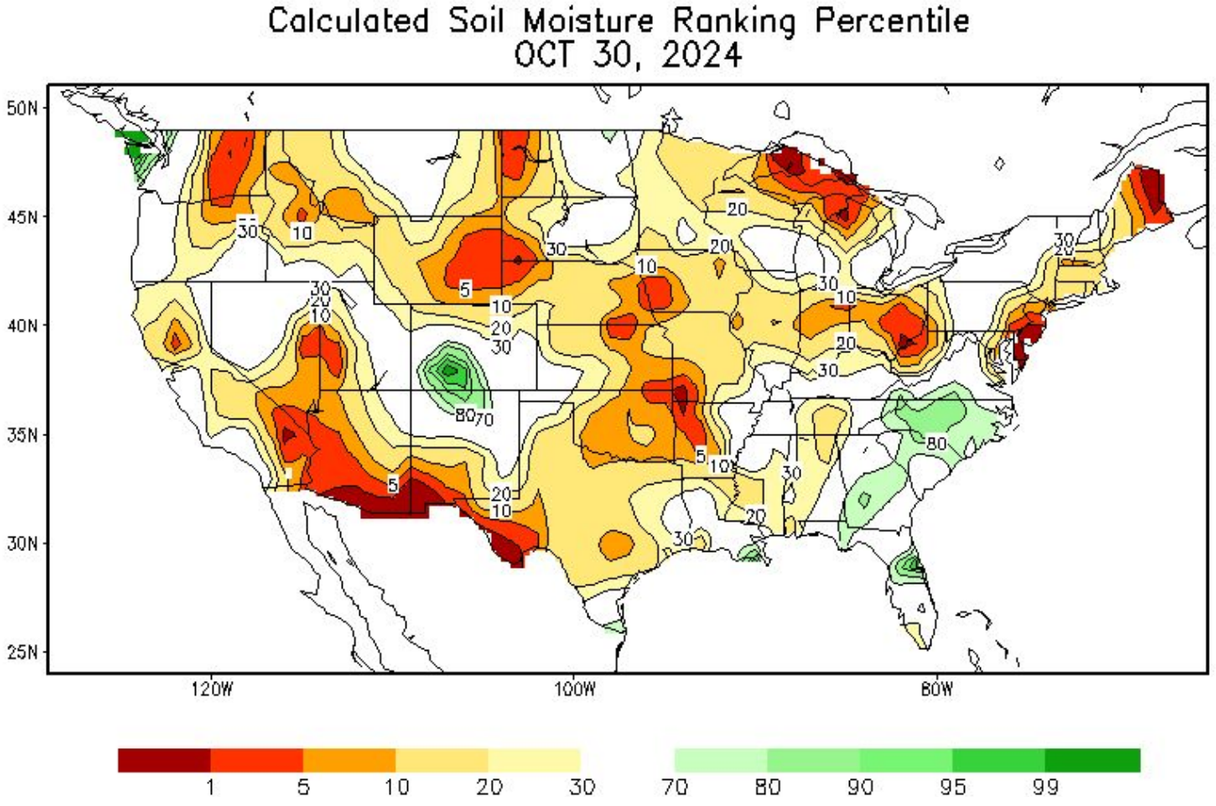
- Local Fire Chiefs have reported a significant increase in grass fires and fire starts.
- Some area counties and municipalities have implemented burn bans due to dry conditions.

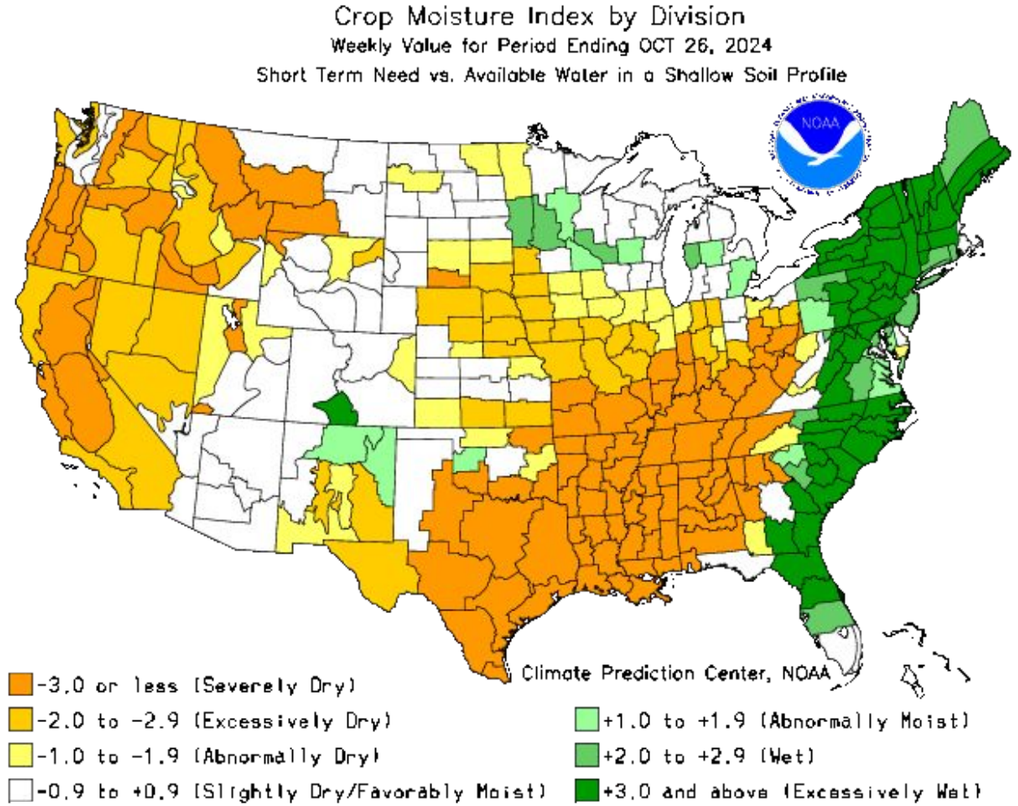
Mitigation actions

- 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

October 31, 2024
12:23 PM



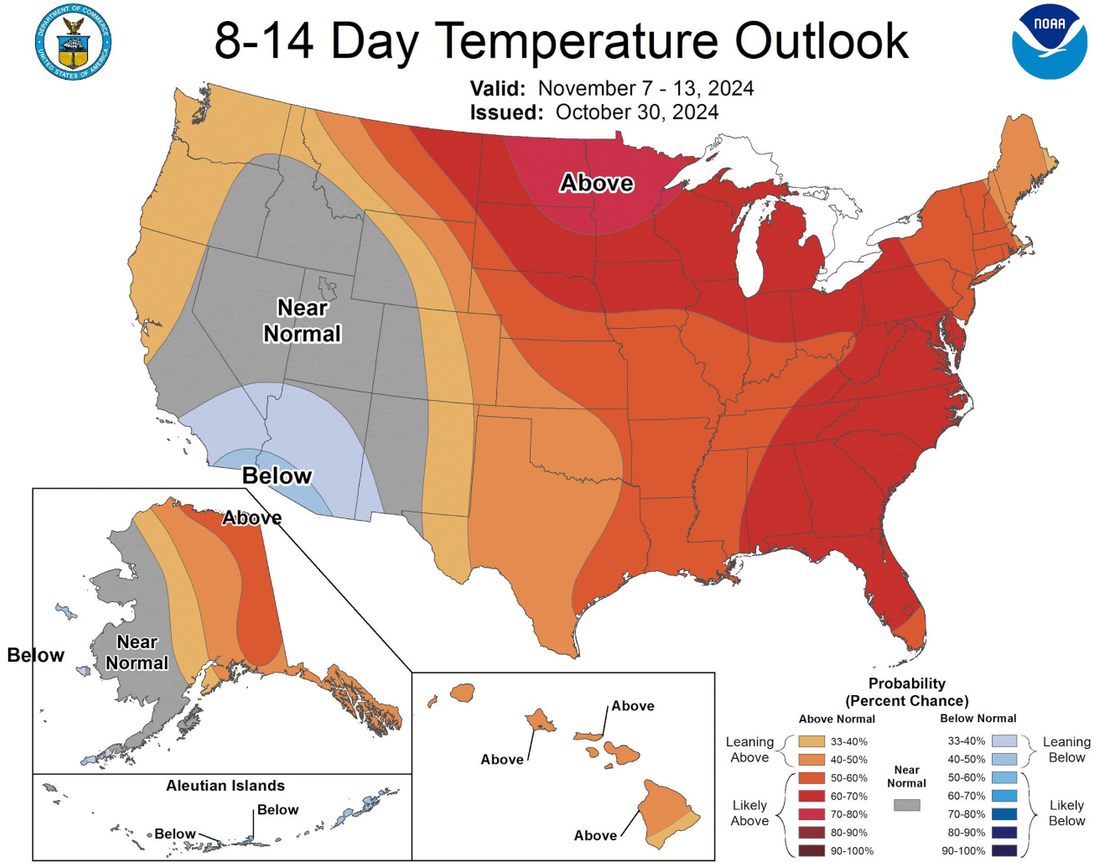


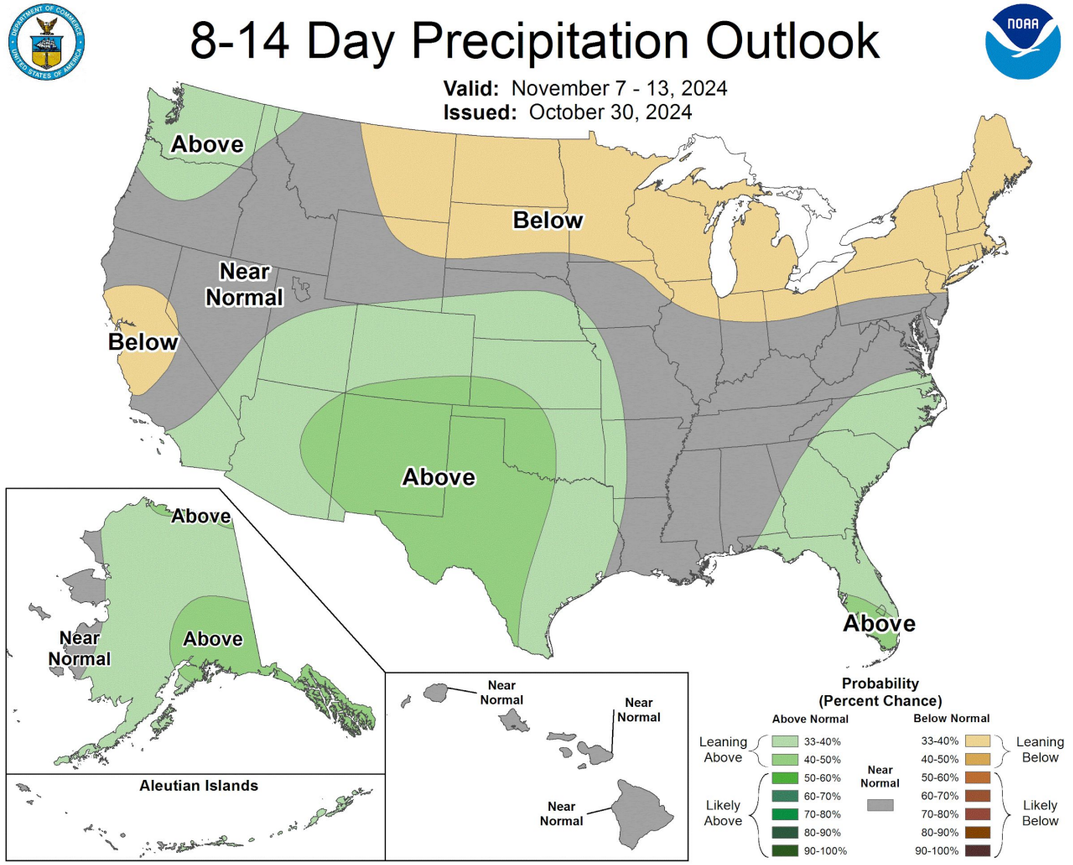
- Significant portions of the Missouri Ozarks and and far SE Kansas recorded as many as 31 days without measurable rainfall. For some locations this extended period was in the Top 5 longest stretches of no rainfall on record.

8 to 14 Day Outlooks

October 31, 2024
12:23 PM

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





Main Takeaways

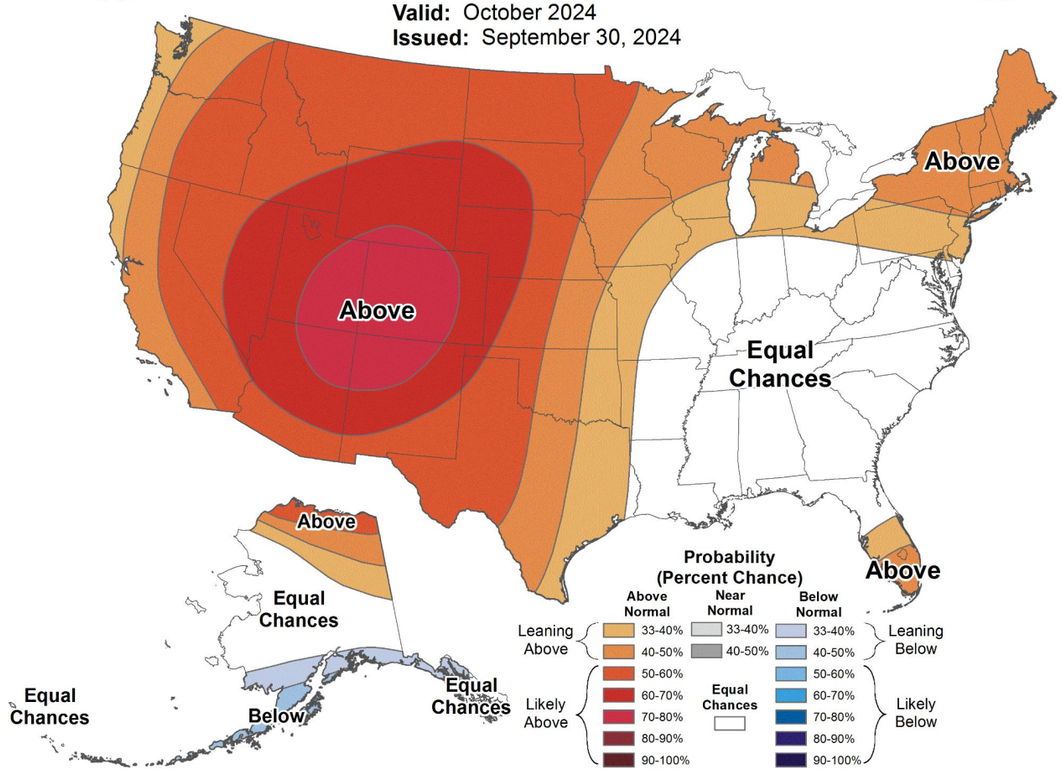
- Above average temperatures look to continue into at least early to mid-November.
- Precipitation slightly favors an above average outlook across far western Missouri

October Monthly Outlooks

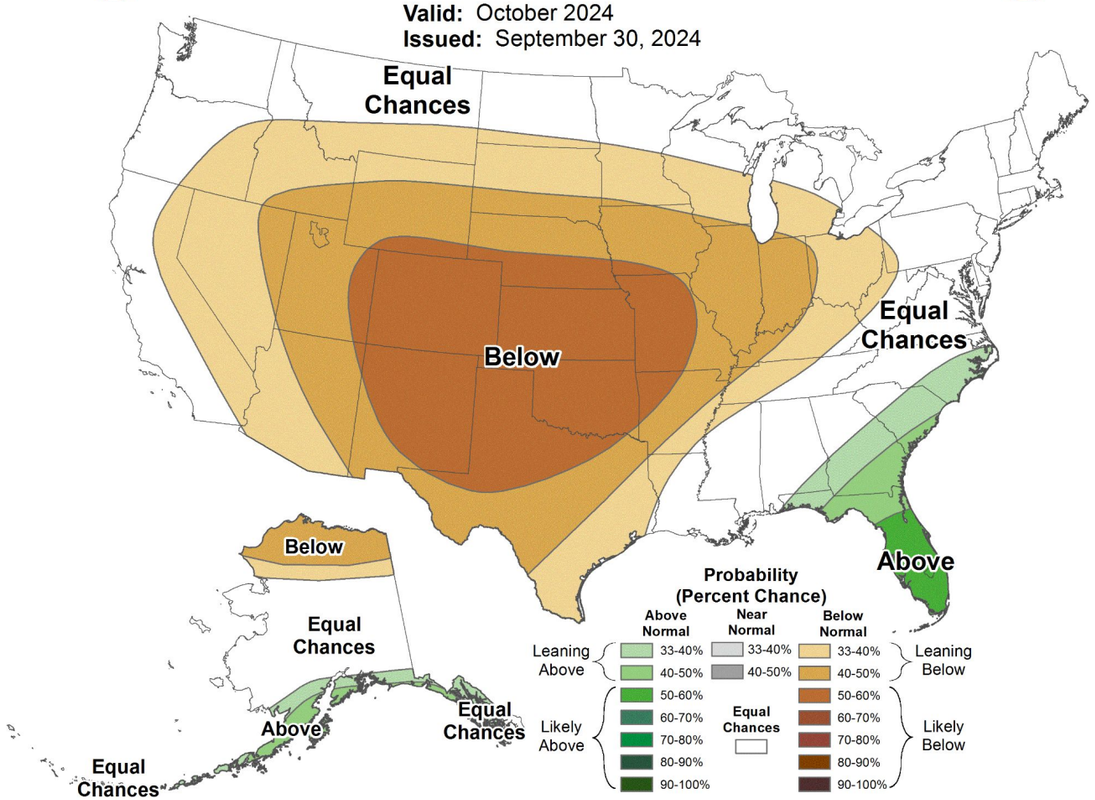
October 31, 2024
12:23 PM

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 a 33-40% chance for above normal temperatures for October.
- The precipitation outlook favors a continued below normal amount of rainfall in October, with increased chances from last outlook.

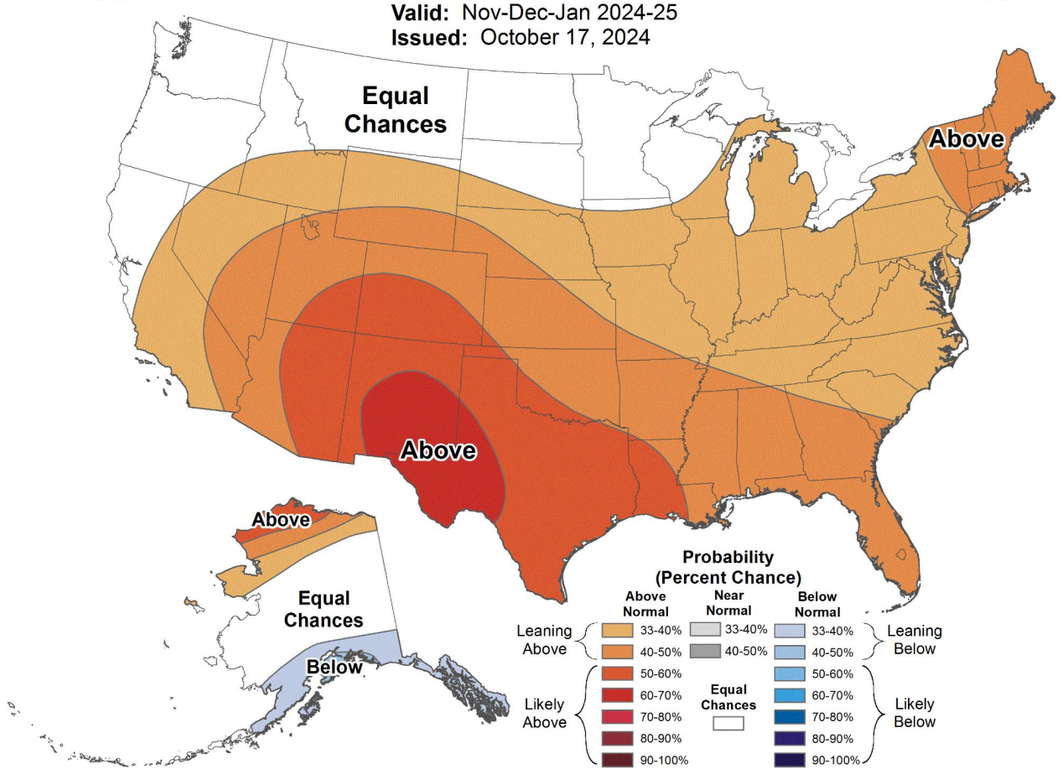
Seasonal Outlooks

October 31, 2024
12:23 PM

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

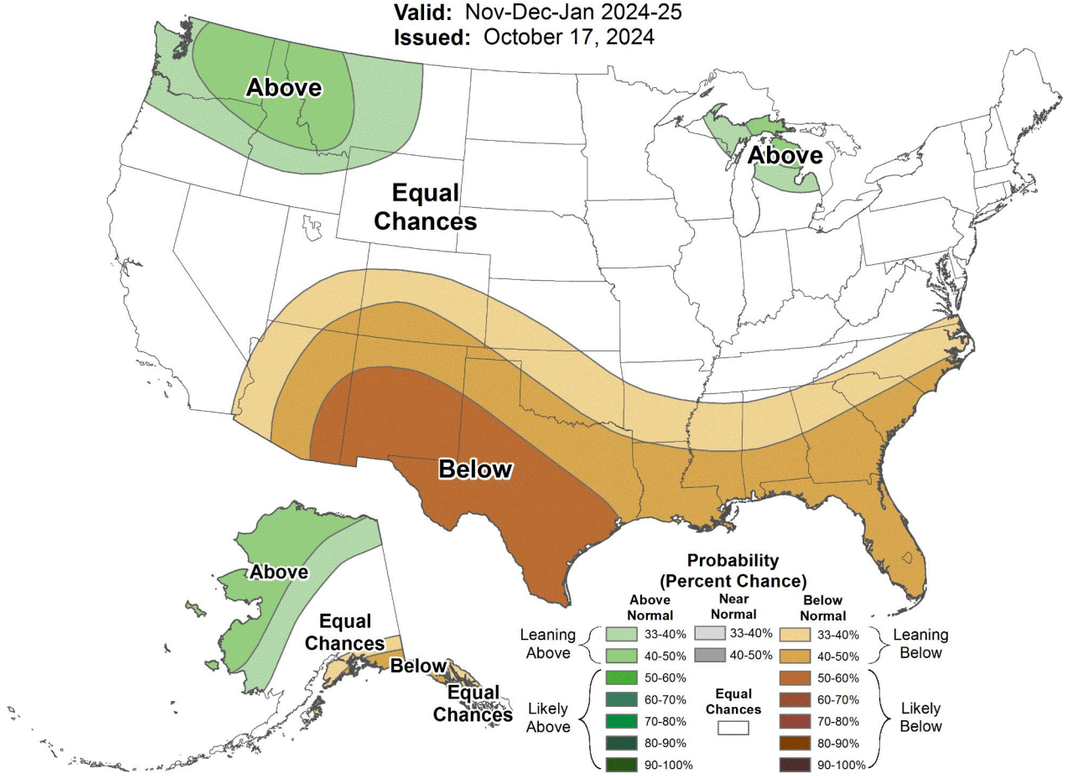
Seasonal Temperature Outlook

Valid: Nov-Dec-Jan 2024-25
Issued: October 17, 2024



Seasonal Precipitation Outlook

Valid: Nov-Dec-Jan 2024-25
Issued: October 17, 2024



Main Takeaways

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

Drought Outlook

October 31, 2024
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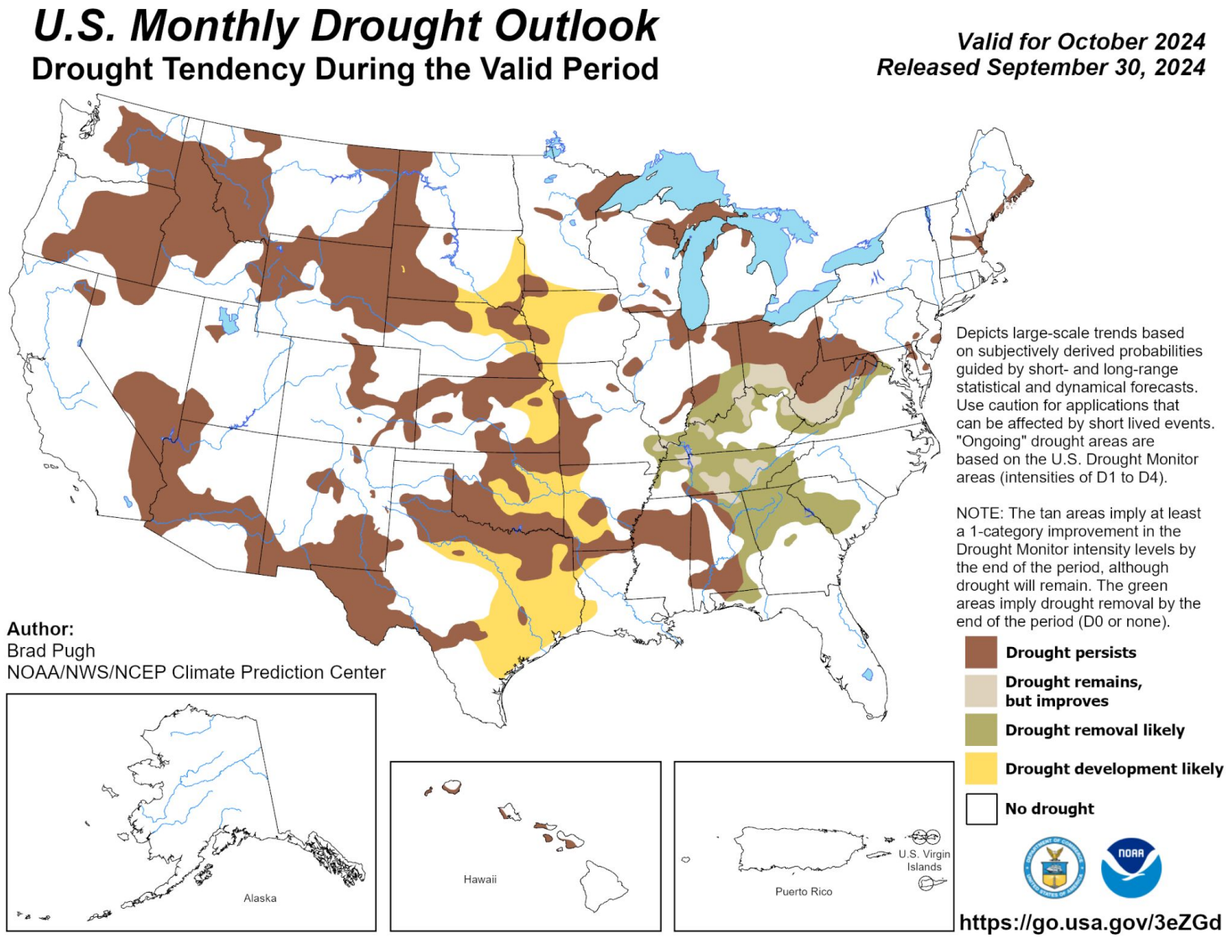
[Climate Prediction Center Monthly Drought Outlook](#) | [Climate Prediction Center Seasonal Drought Outlook](#)



Main Takeaways

- Drought continues to slowly expand across the area
- Locations that did not receive rainfall in the past 30-90 days have seen quick and significant expansion of drought conditions.
- Rainfall during the Oct 30th through Nov 5th period is expected to help limit drought expansion.

Additional Drought Resources

October 31, 2024
12:23 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