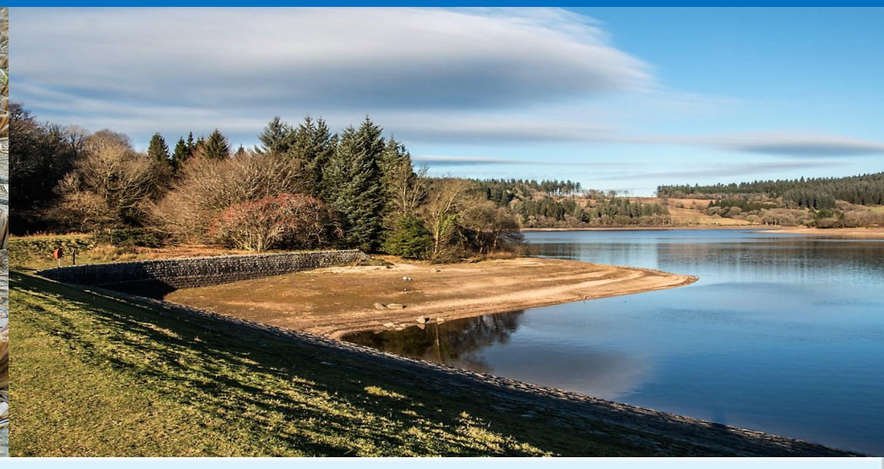
Drought Information Statement for the Missouri Ozarks

Valid September 19, 2024

Issued By: *WFO Springfield, MO*

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

- This product will be updated October 17, 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.



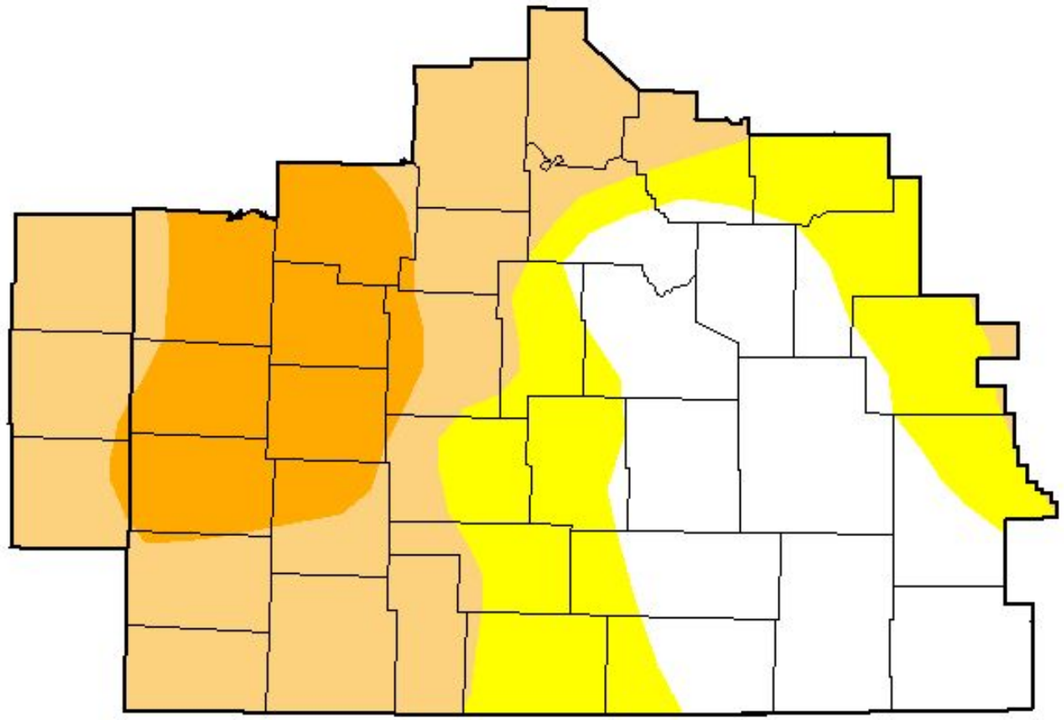
U.S. Drought Monitor

February 1, 2024
10:01 AM

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

- **Drought intensified to Severe (D2) drought over western Missouri into a small part of far southeast Kansas and the Moderate (D1) drought expanded into portions of central MO as well.**

- **Drought Intensity and Extent**
  - D2 (Severe Drought): Portions of Vernon, St Clair, Barton, Cedar, Dade, Polk, and Lawrence counties in western MO and a small portion of Cherokee and Crawford counties in southeast Kansas.
  - D1 (Moderate Drought): All of Bourbon and the remaining portions of Crawford and Cherokee counties in southeast Kansas. In southwest Missouri, all or portions of Newton, McDonald, Barry, Stone, Lawrence, Christian, Greene, Polk, Webster, Hickory, Benton, Camden, Morgan and Miller counties.

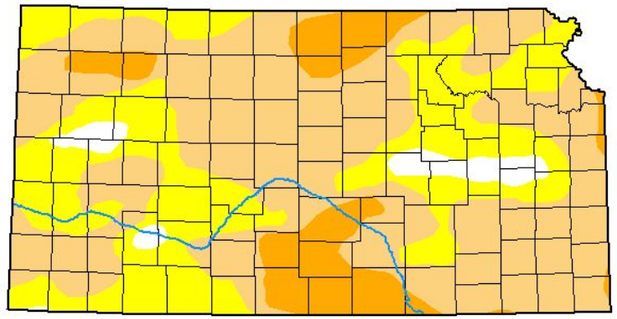


State Drought Monitor

February 1, 2024
10:01 AM

Link to Recent Change Maps

U.S. Drought Monitor
Kansas



September 17, 2024
(Released Thursday, Sep. 19, 2024)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	3.48	96.52	65.05	11.20	0.00	0.00
Last Week 09-10-2024	5.00	95.00	56.14	9.67	0.00	0.00
3 Months Ago 06-18-2024	44.56	55.44	32.66	8.57	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 09-26-2023	18.61	81.39	64.30	45.56	20.60	1.65
One Year Ago 09-19-2023	19.07	80.93	66.83	47.04	22.06	1.65

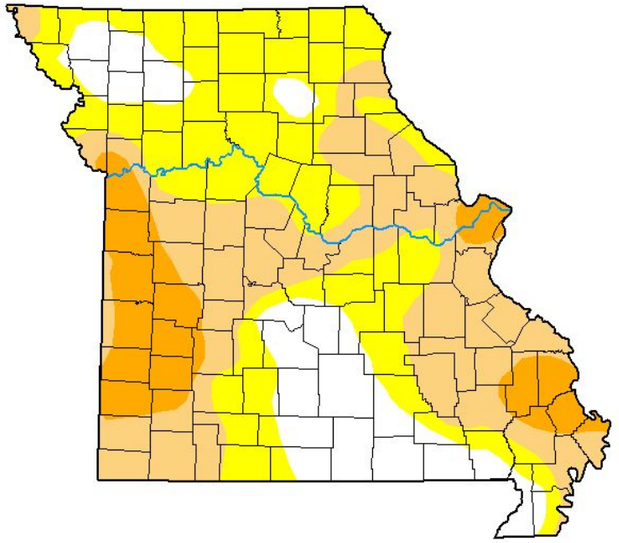
Intensity:
None
D0 Abnormally Dry
D1 Moderate Drought
D2 Severe Drought
D3 Extreme Drought
D4 Exceptional Drought

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:
Brad Rippey
U.S. Department of Agriculture

droughtmonitor.unl.edu

U.S. Drought Monitor
Missouri



September 17, 2024
(Released Thursday, Sep. 19, 2024)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	17.51	82.49	47.00	12.98	0.00	0.00
Last Week 09-10-2024	21.49	78.51	36.89	3.98	0.00	0.00
3 Months Ago 06-18-2024	82.17	17.83	4.98	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 09-26-2023	18.08	81.92	54.87	27.22	9.04	0.00
One Year Ago 09-19-2023	20.71	79.29	54.62	27.11	10.71	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:
Brad Rippey
U.S. Department of Agriculture

droughtmonitor.unl.edu

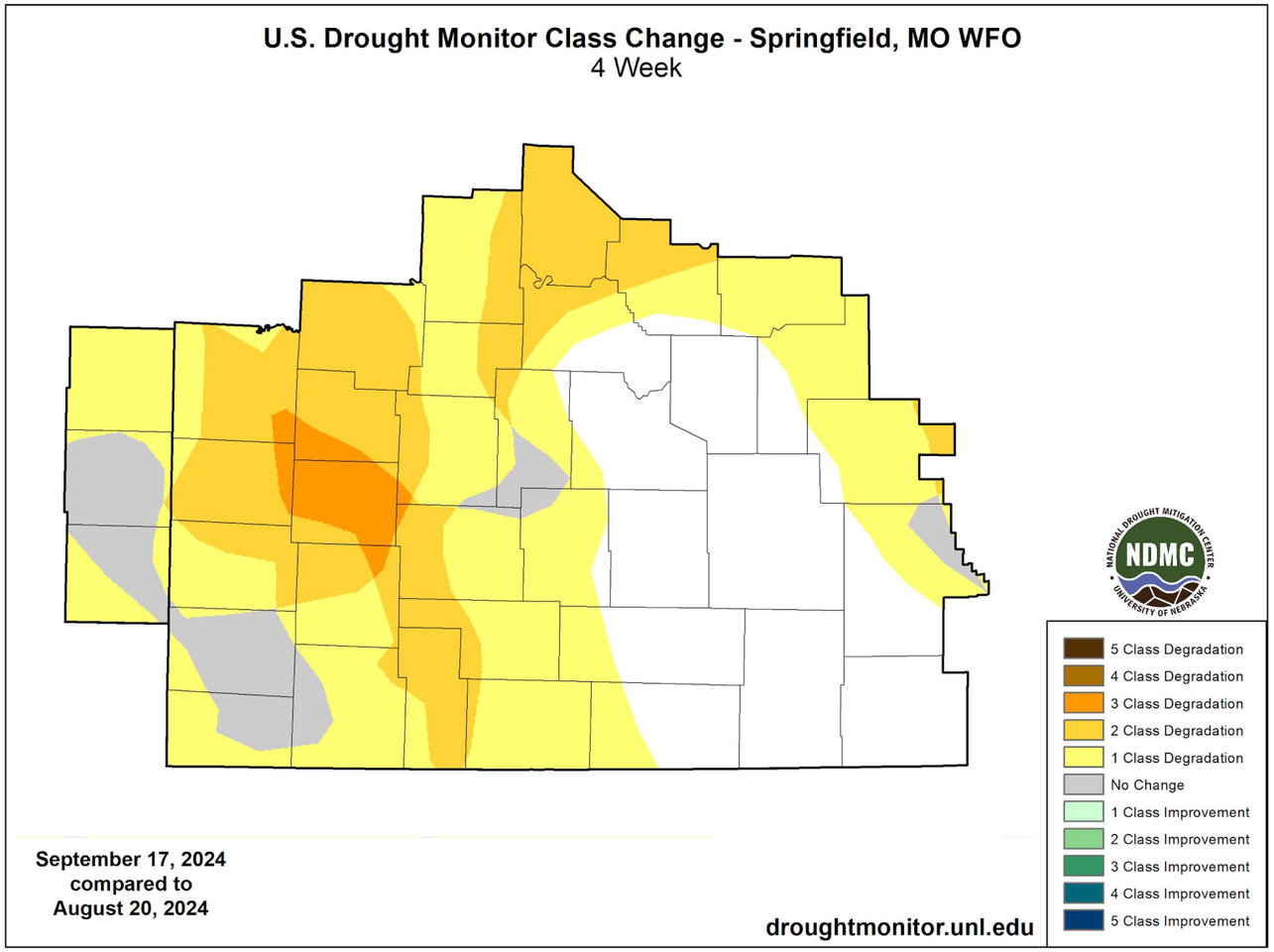
Main Takeaways

- Drought intensified to Severe (D2) over western Missouri into far southeast Kansas
- Moderate (D1) drought spread into portions of central Missouri.

Recent Change in Drought Intensity

February 1, 2024
10:01 AM

Link to Recent Change Maps



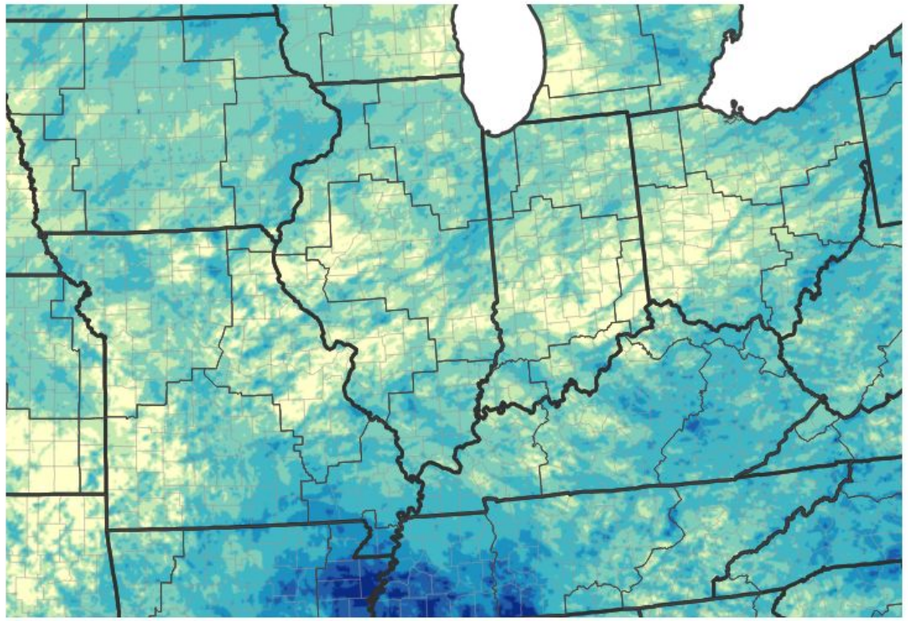
Main Takeaways

- Drought conditions have degraded quickly over the past month over western Missouri
- Central Missouri has also seen an increase in drought.
- Areas from the Lake of the Ozarks southeast into south central Missouri saw no change over the past month.

Precipitation

February 1, 2024
10:01 AM

30-Day Precipitation Accumulations (Inches)



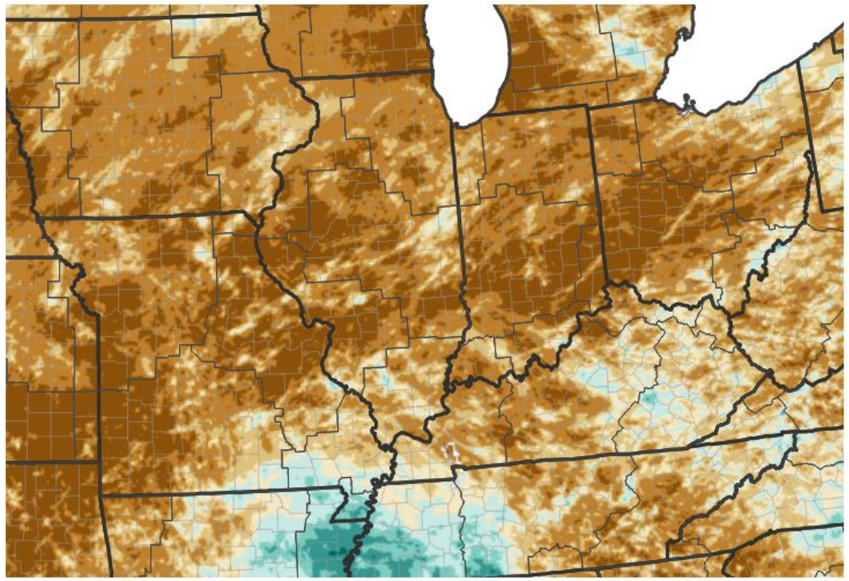
Inches of Precipitation

0 0.01 0.5 1 2

2 4 6 8

Source(s): National Weather Service Multi-Radar Multi-Sensor System; Last Updated: 09/18/24

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: 09/18/24

Main Takeaways

- Many areas west of Highway 65 into southeast Kansas have received less than 2 inches of rain in the past 30 days…with portions seeing less than a half inch of rain. Areas east of Highway 65 received widespread 1-4”…and even some pockets of 4-6” inches.
- Nearly all areas saw less than normal rain…with some receiving less than 25% of normal over the past month.

Hydrologic Conditions and Impacts

February 1, 2024
10:01 AM

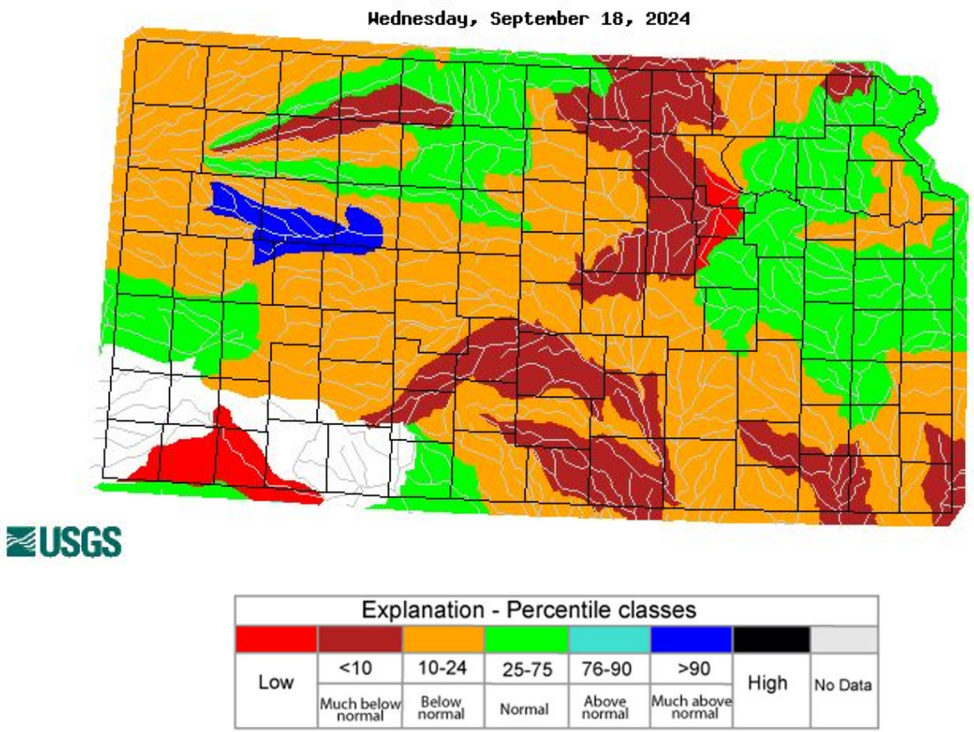


*Image Caption: : [USGS 7 day average streamflow HUC map - Kansas](). *

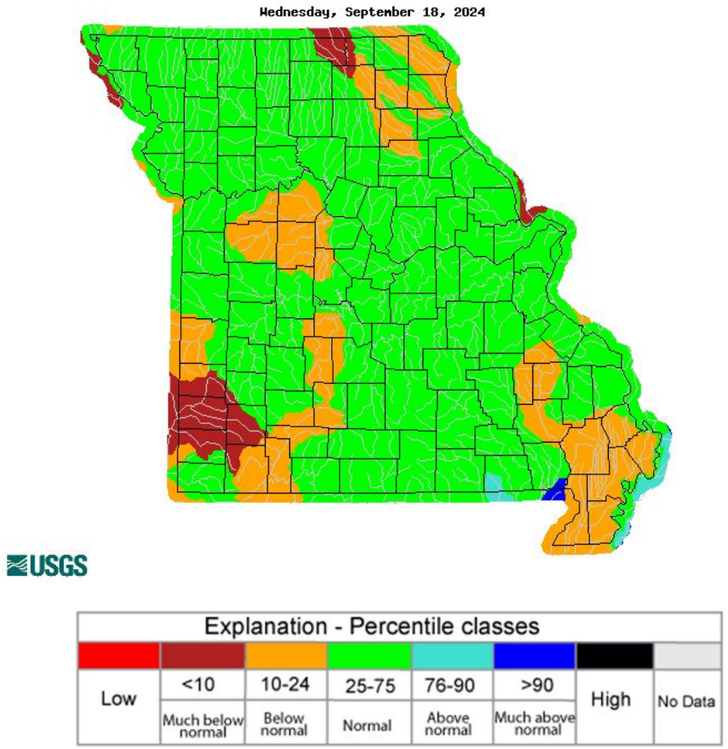


Image Caption: : [USGS 7 day average streamflow HUC map - Missouri]().

Main Takeaways

- Streamflows over the past week over Southeast Kansas into western Missouri have as little as less than 10% of normal over the Spring River and parts of the Neosho and Elk river basins.
- Sufficient rain and spring fed streams over much of Missouri remained at 25-75% of normal flow.

Summary of Impacts

February 1, 2024
10:01 AM

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

Hydrologic Impacts

- Significant rainfall deficients were noted over southeast Kansas to along 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 with some estimating extreme degree of loss to near crop failure.
- Pastures are providing marginal feed, requiring supplemental feeding in some regions.

Fire Hazard Impacts

- Local Fire Chiefs have reported widespread browning of vegetation and a recent increase in grass fires.

Other Impacts

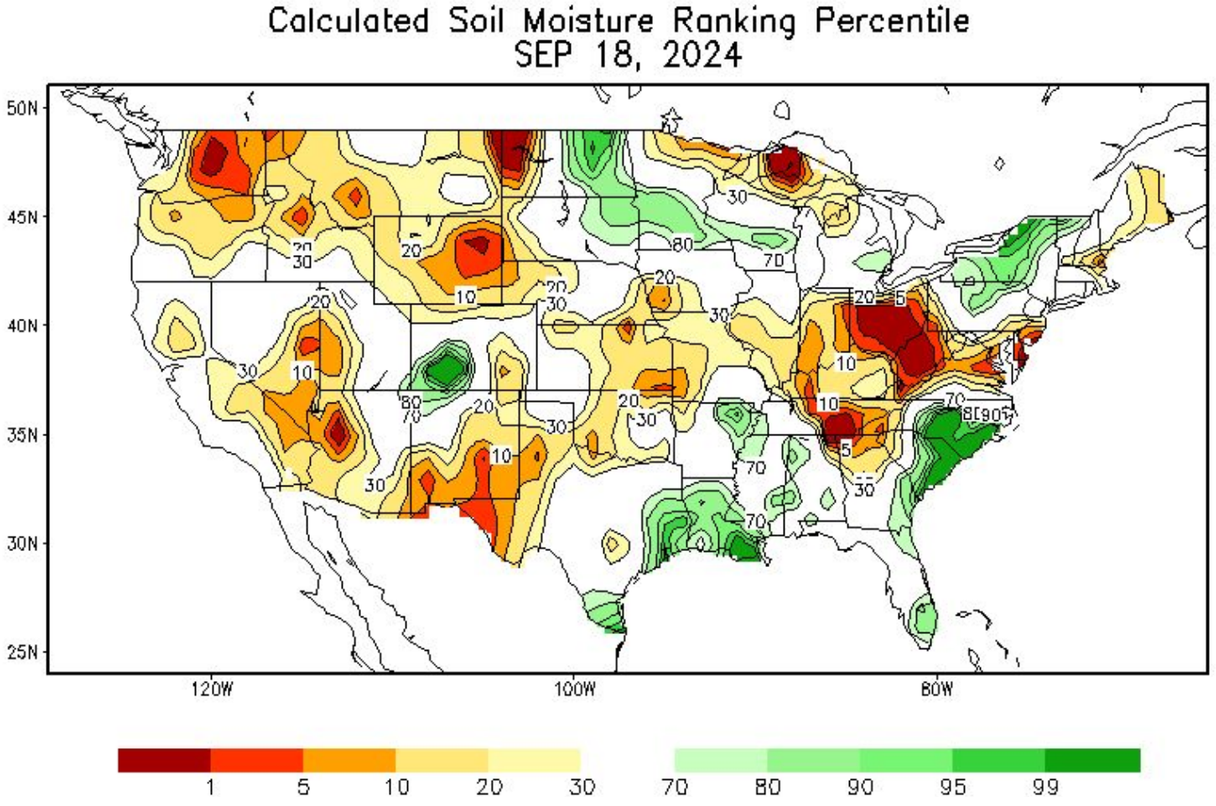
- There are no additional known impacts at this time.

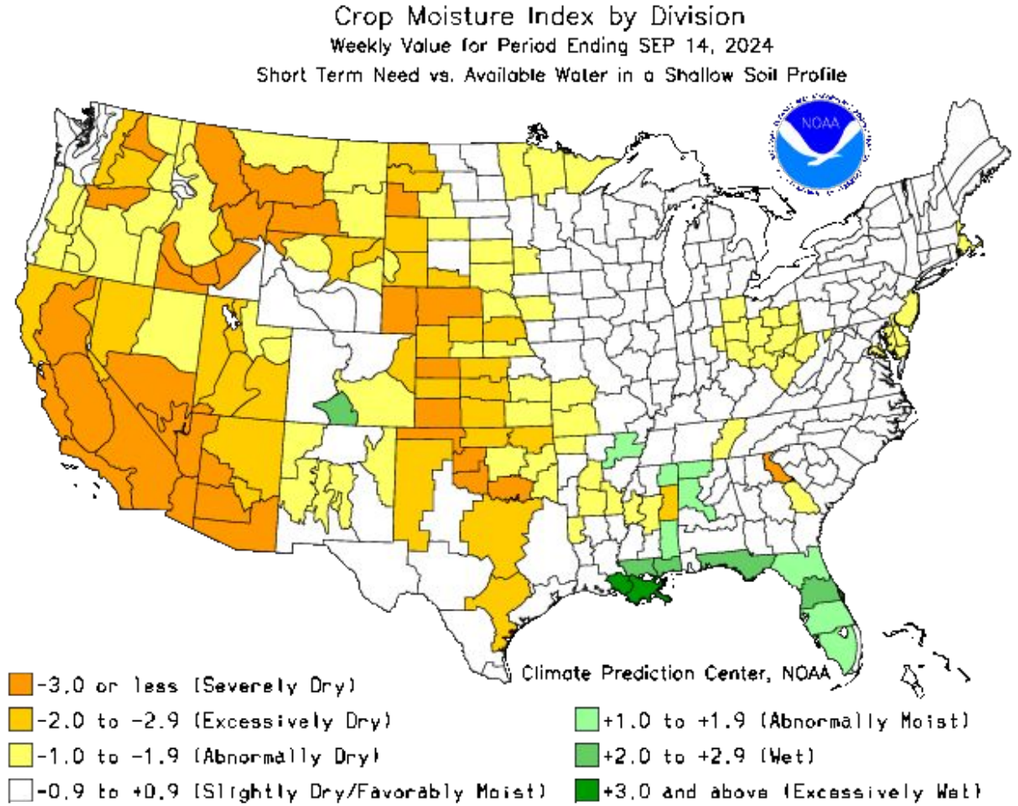
Mitigation actions

- 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

February 1, 2024
10:01 AM





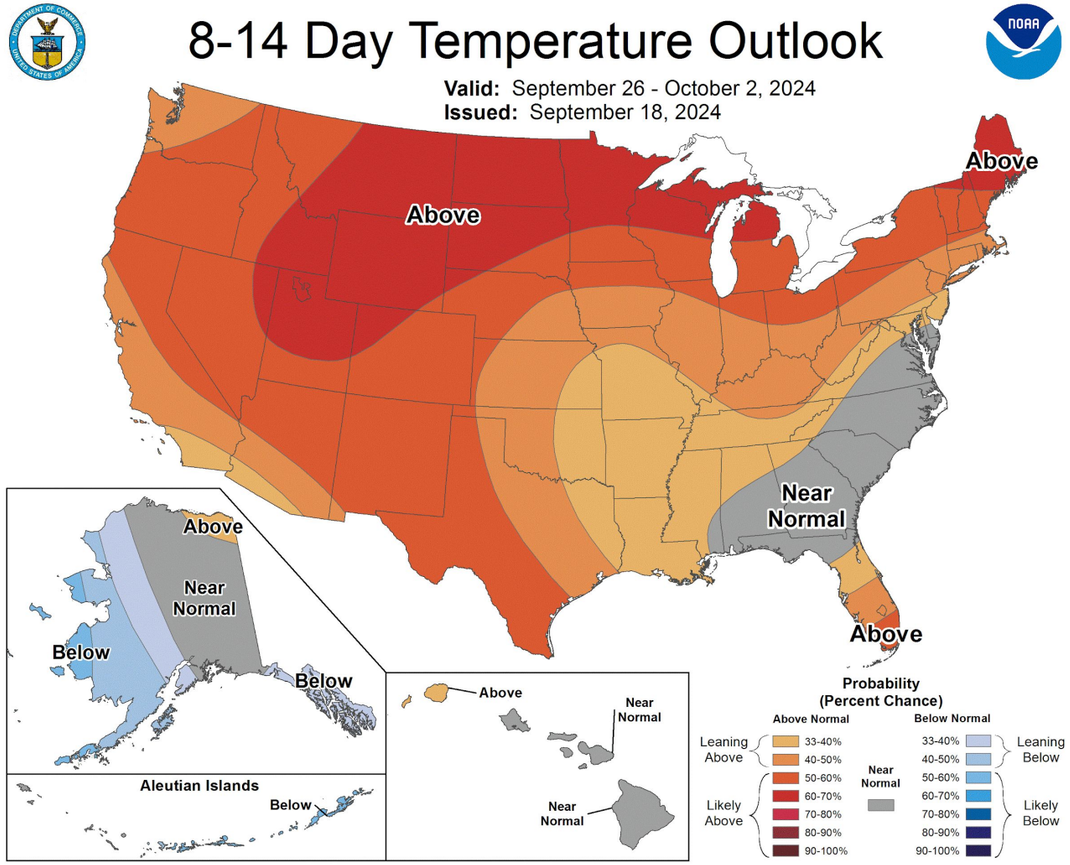
Main Takeaways

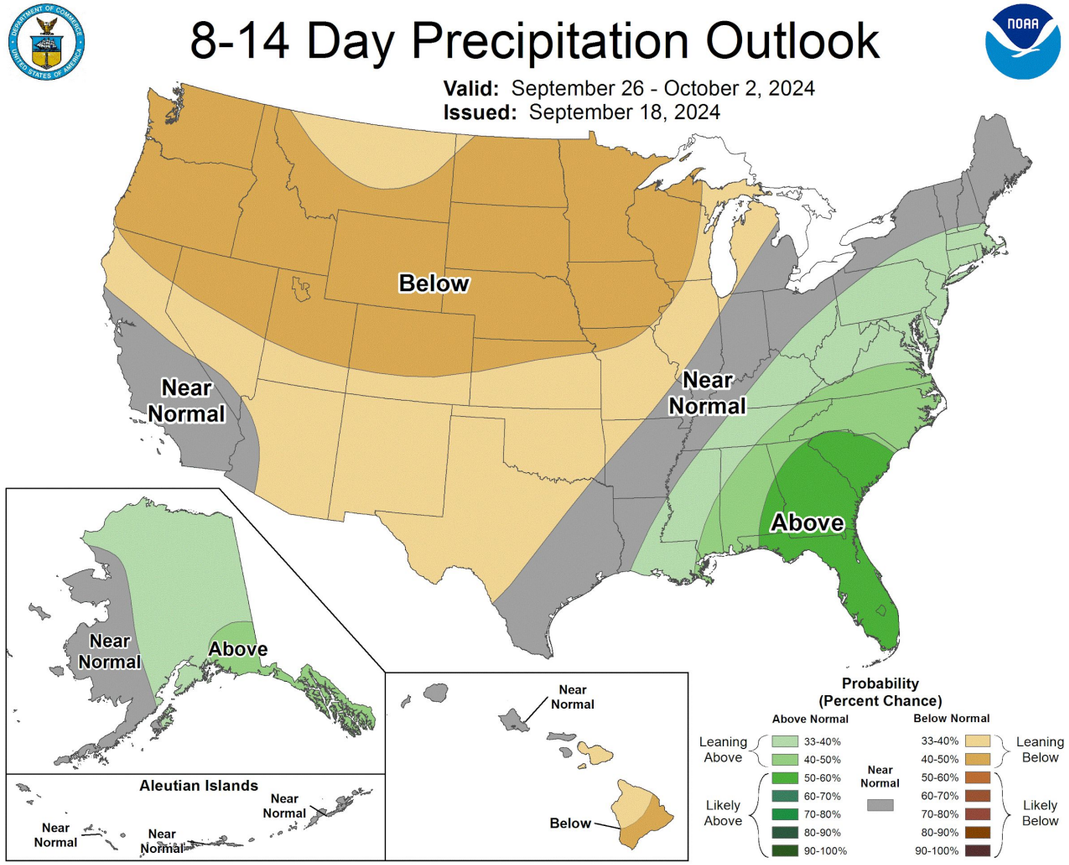
- Crop moistures over southeast Kansas into western Missouri were abnormally dry…with the Soil Moisture Ranking as low as below the 5th percentile.
- South central Missouri into the eastern Ozarks continued to be slightly dry to favorably moist

8 to 14 Day Outlooks

February 1, 2024
10:01 AM

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





Main Takeaways

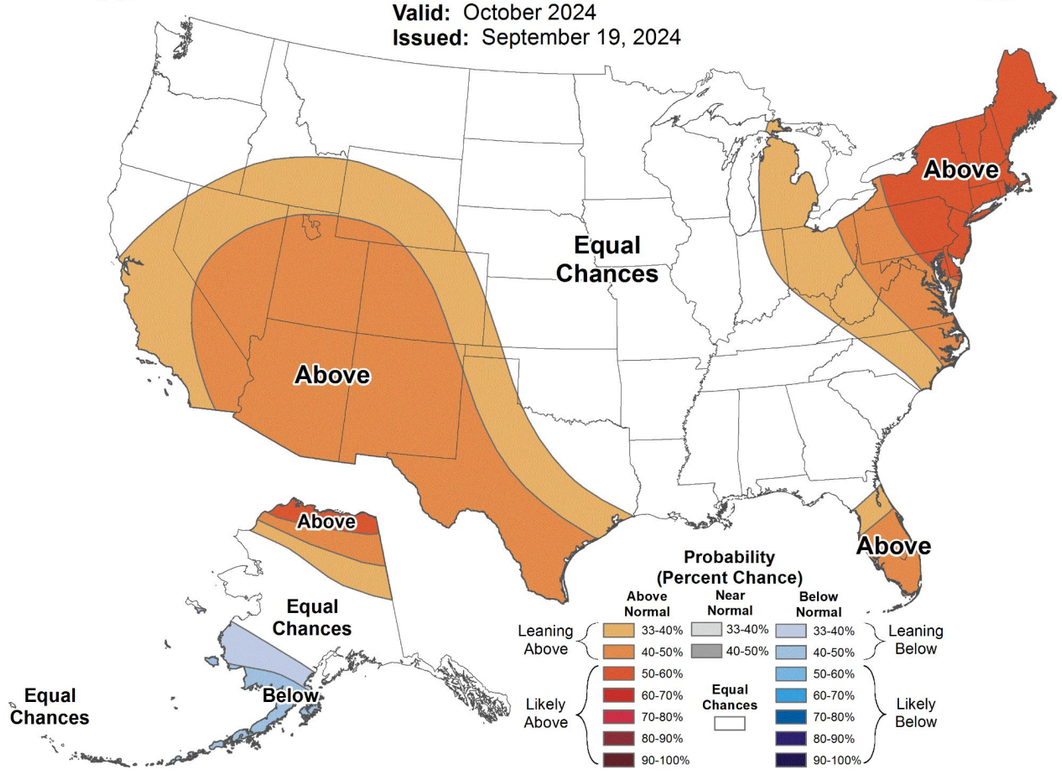
- Above normal temperatures look to continue into at least early October.
- Precipitation favors a slightly below normal outlook

October Monthly Outlooks

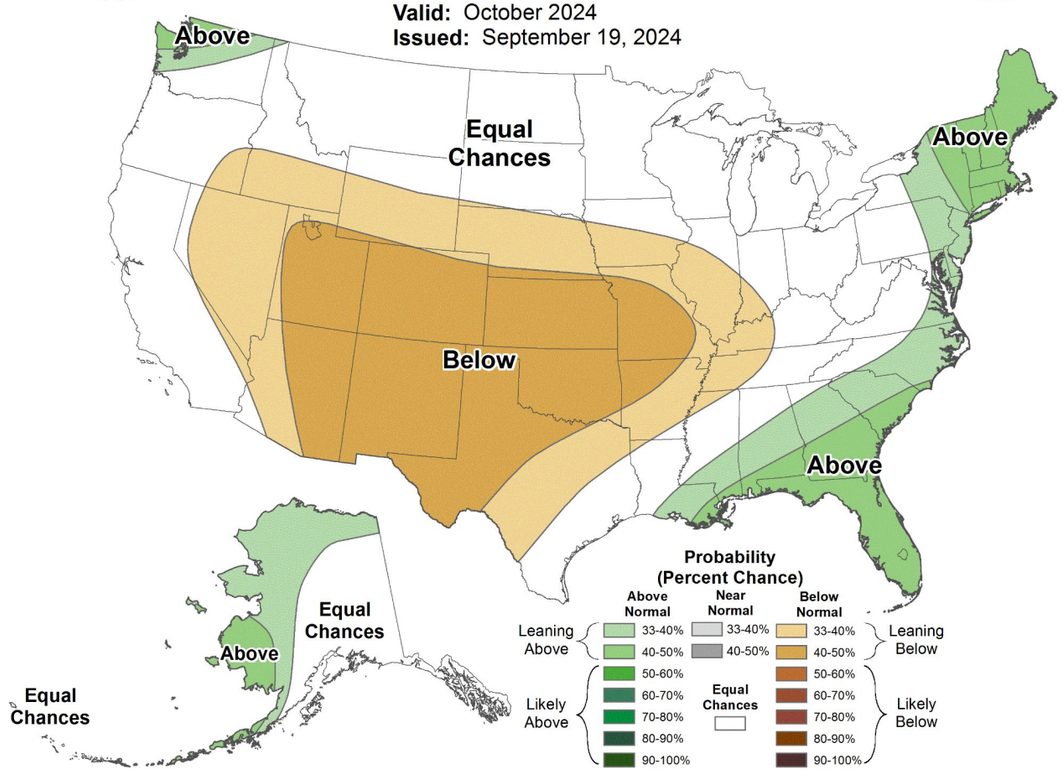
February 1, 2024
10:01 AM

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 trending toward equal chances for above, below and normal temperatures for October.
- The precipitation outlook favors a continued below normal amount of rainfall in October.

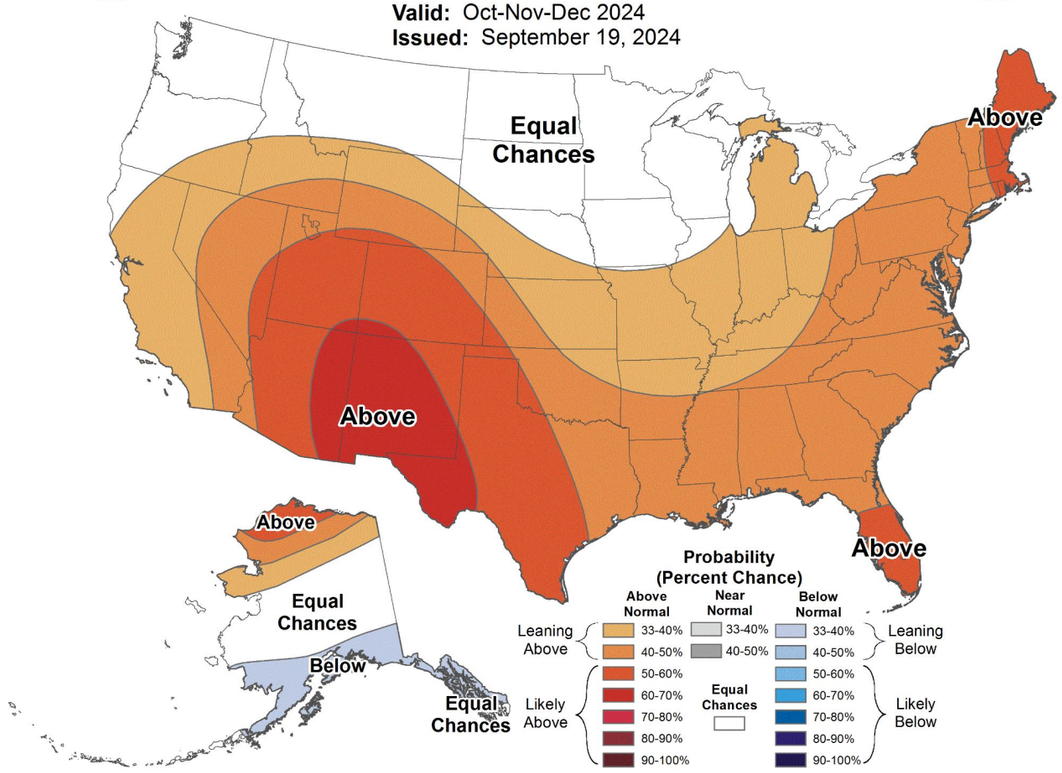
Seasonal Outlooks

February 1, 2024
10:01 AM

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

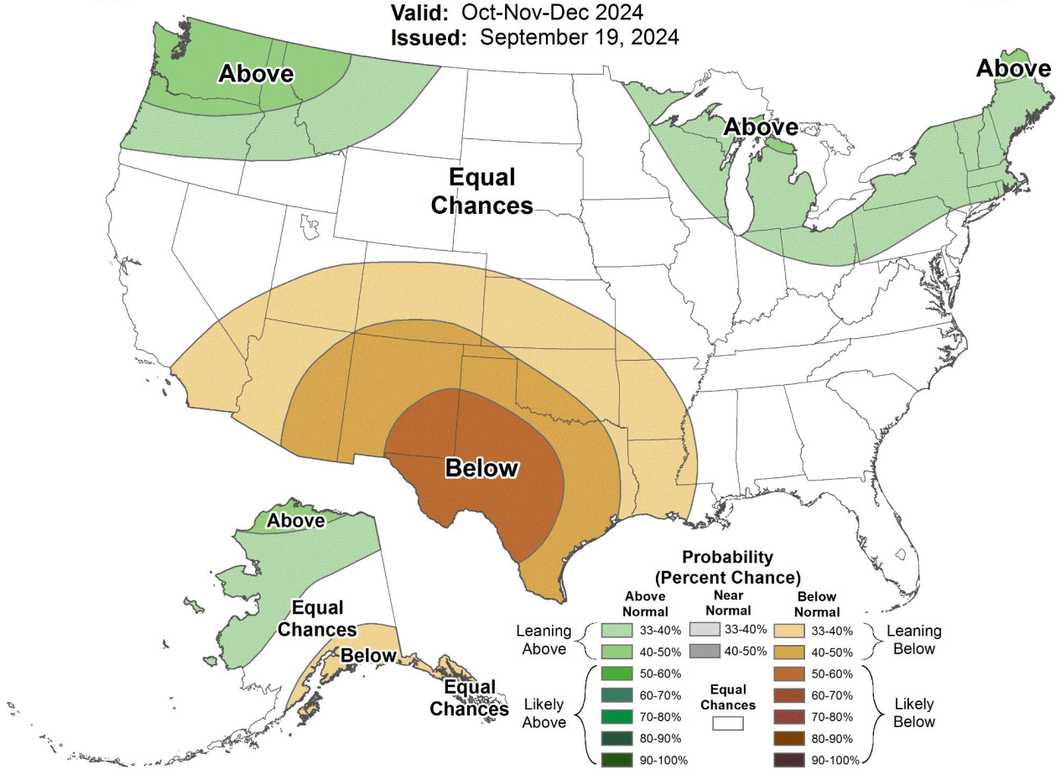
Seasonal Temperature Outlook

Valid: Oct-Nov-Dec 2024
Issued: September 19, 2024



Seasonal Precipitation Outlook

Valid: Oct-Nov-Dec 2024
Issued: September 19, 2024



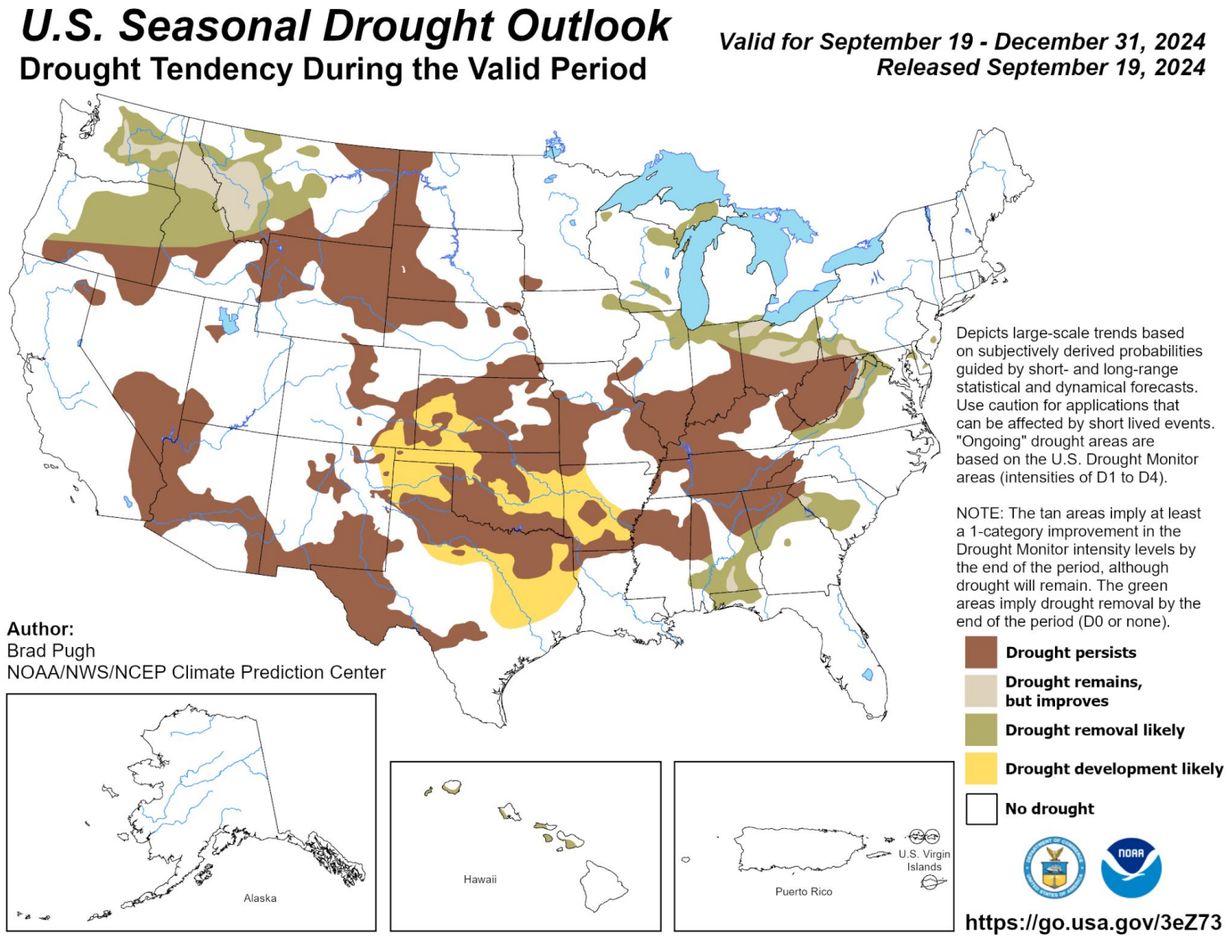
Main Takeaways

- After temperatures trended toward equal chances for above/below/normal in October, the longer term outlook for November and December slightly favors above normal temperatures.
- The precipitation outlook in October favors below normal chances, then November and December offers equal chances.

Drought Outlook

February 1, 2024
10:01 AM

Climate Prediction Center Monthly Drought Outlook | Climate Prediction Center Seasonal Drought Outlook



Main Takeaways

- Monthly drought (not shown) through the the end of the year favors a continued to potentially worsening drought for southeast Kansas into at least western Missouri.
- Impacts over central through south central may be more limited.

Additional Drought Resources

February 1, 2024
10:01 AM

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