



ACOG DROUGHT CONDITIONS

IN CENTRAL OKLAHOMA

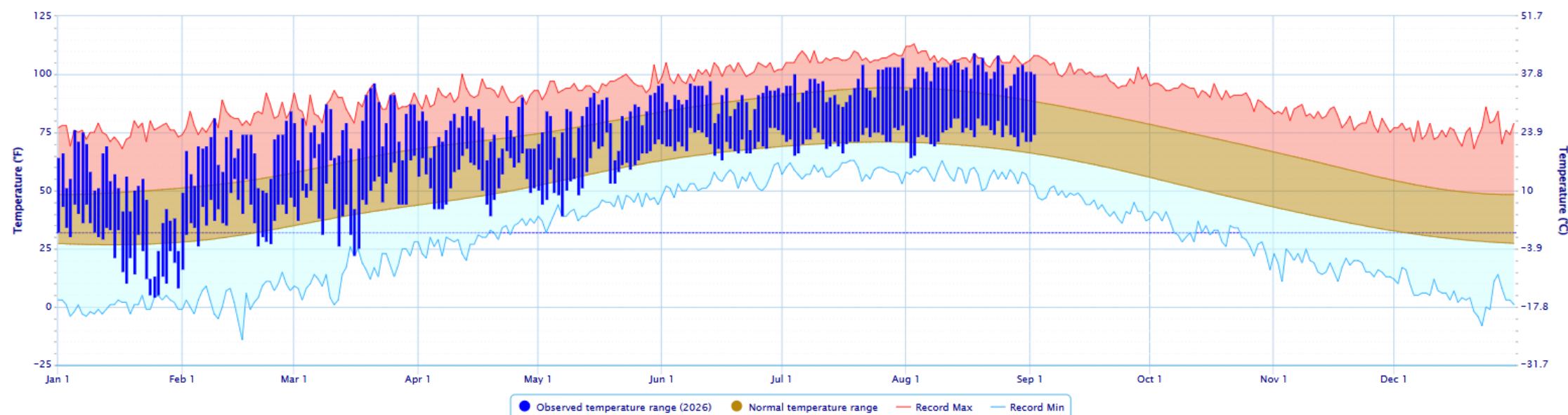
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SEPTEMBER 2026



TEMPERATURE PLOT FOR OKLAHOMA CITY, OK - 2026

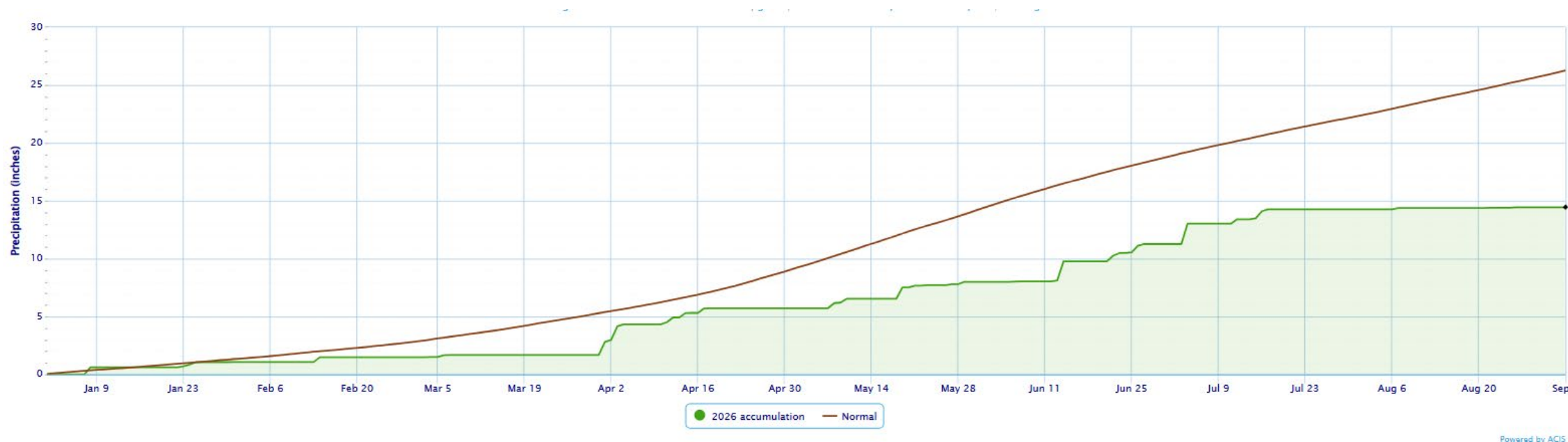


Powered by ACIS

MONTHLY TEMPERATURE TREND:

Not only did the heat stick around for August – this was the 3rd warmest August on Oklahoma record.

PRECIPITATION PLOT FOR OKLAHOMA CITY, OK - 2026



Powered by ACIS

MONTHLY PRECIPITATION TREND:

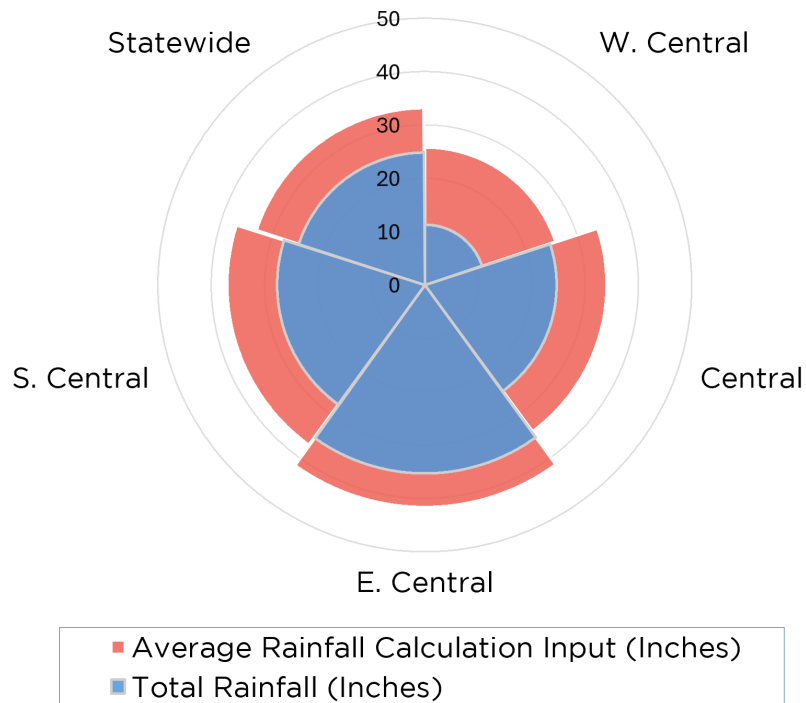
Central Oklahoma was deprived of rain this August, raising our accumulation gap to 11+ inches.

WATER YEAR RAINFALL SUMMARY



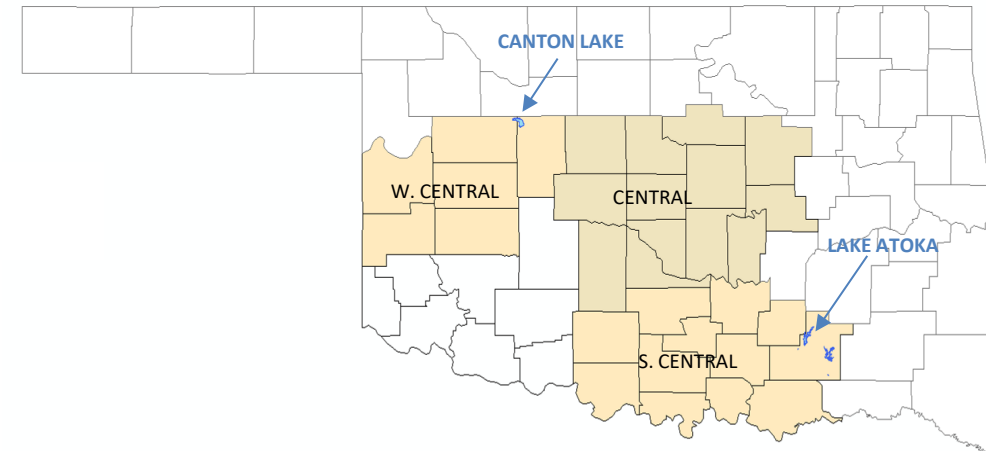
WATER YEAR RAINFALL CHART

Oct 1, 2025 - Sept 3, 2026



CENTRAL OKLAHOMA TAKEAWAY:

- For Western Central Oklahoma, this is the driest water year since 1921. For the other central regions, this makes the top 30 driest.
- Current models are showing cooler weather mid-September, and potentially some rain.

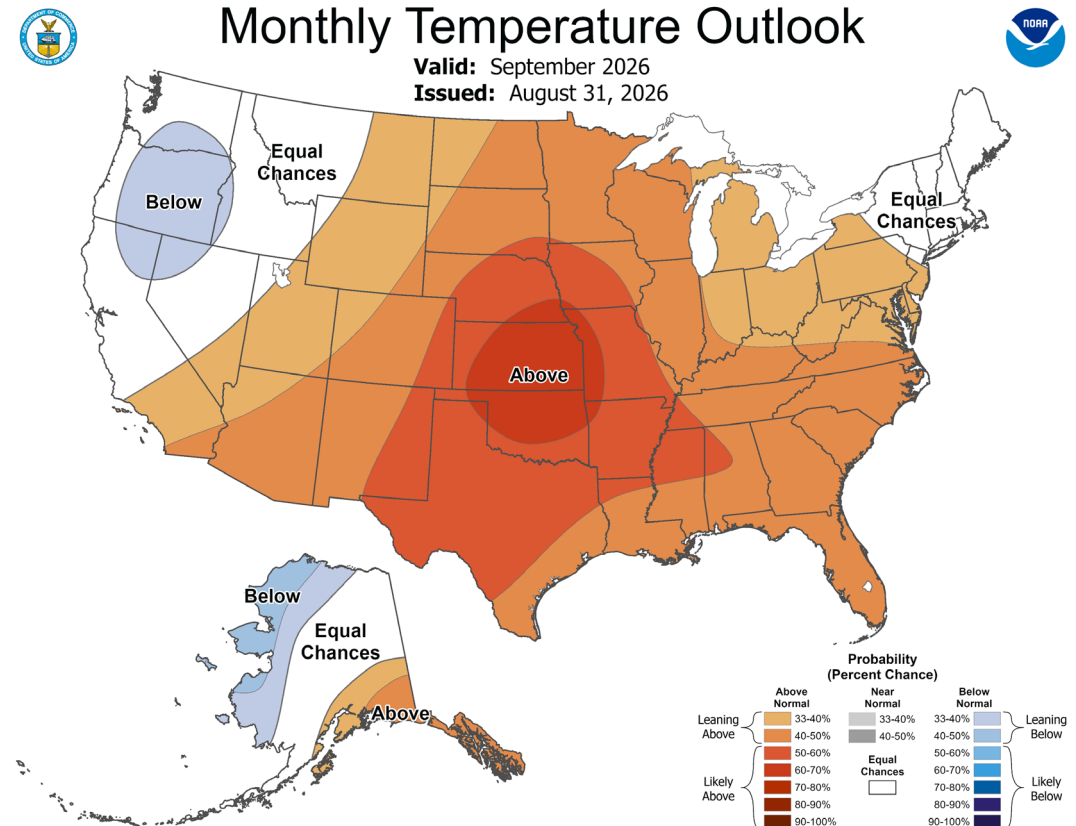


NOAA ONE-MONTH TEMPERATURE OUTLOOK



SEPTEMBER TEMPERATURE OUTLOOK:

- White areas shown as EC (Equal Chance) on these maps represent areas with no strong climate signals based on current data.
- While the September forecasts predict slightly cooler weather coming this month, the temperatures will still be higher than average.



NOAA ONE-MONTH PRECIPITATION OUTLOOK



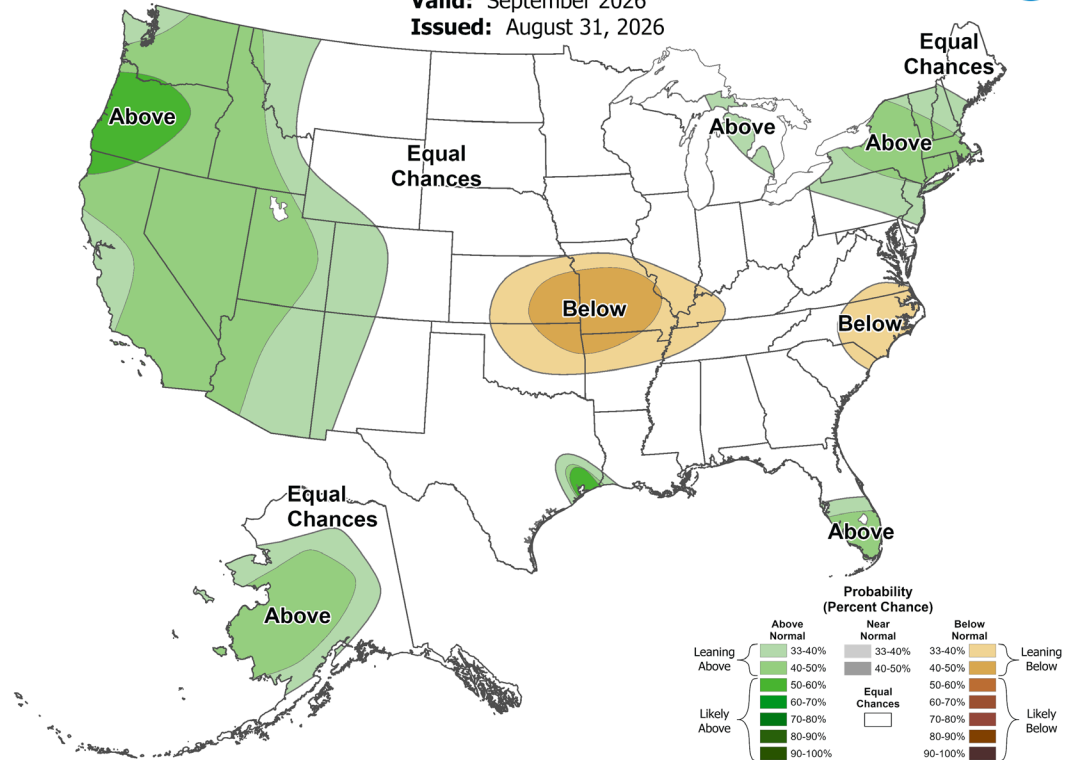
SEPTEMBER PRECIPITATION OUTLOOK:

- White areas shown as EC (Equal Chance) on these maps represent areas with no strong climate signals based on current data.
- Oklahoma is still waiting on a push from El Niño towards wetter weather. For now, expect the drought to continue.

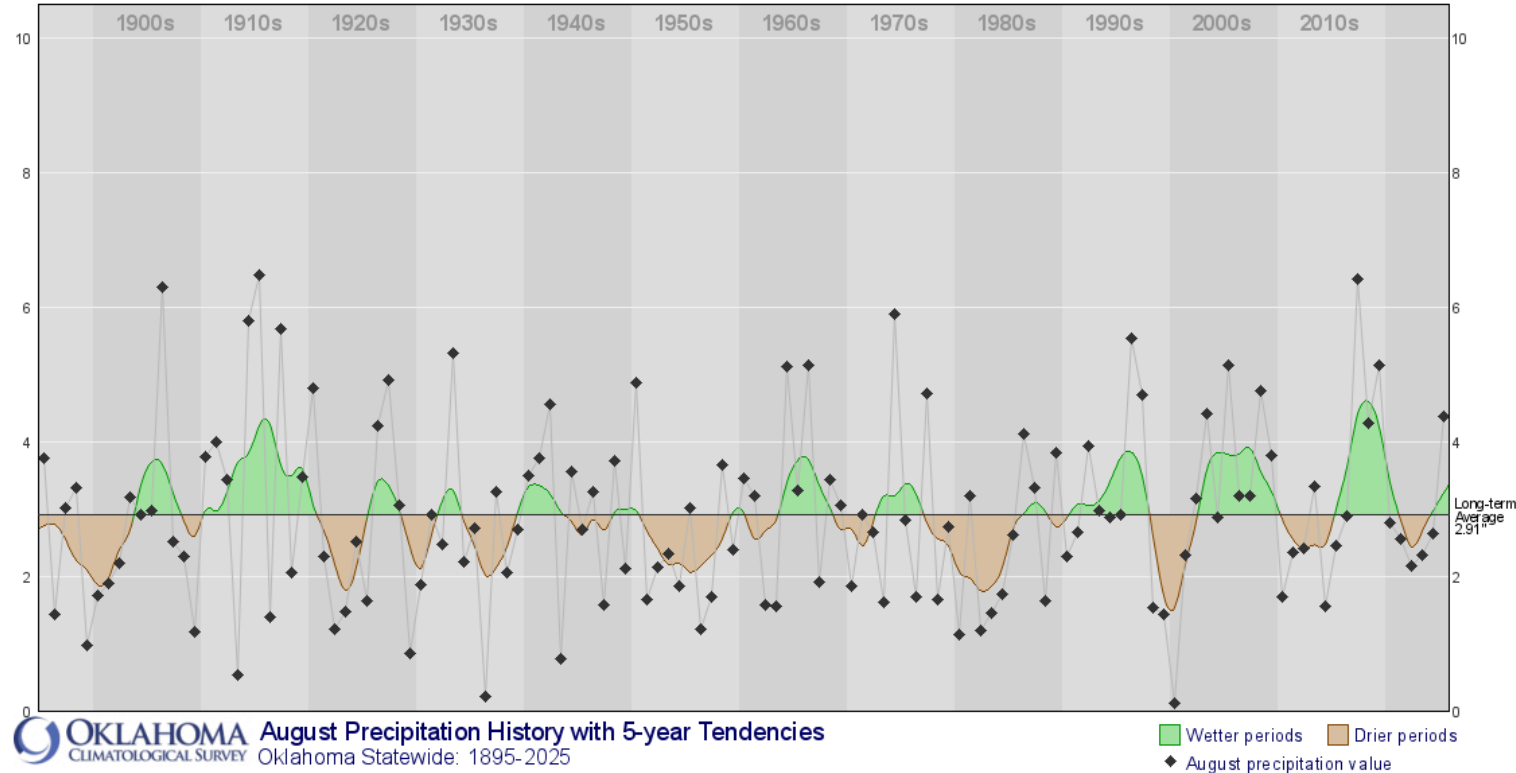


Monthly Precipitation Outlook

Valid: September 2026
Issued: August 31, 2026



AUGUST PRECIPITATION HISTORY WITH 5-YEAR TENDENCIES



HISTORICAL RAINFALL TRENDS:

- Statewide – August brought an average of 0.86 inches of rain. Over 2 inches less than the long-term average.

U.S. DROUGHT MONITOR - OKLAHOMA

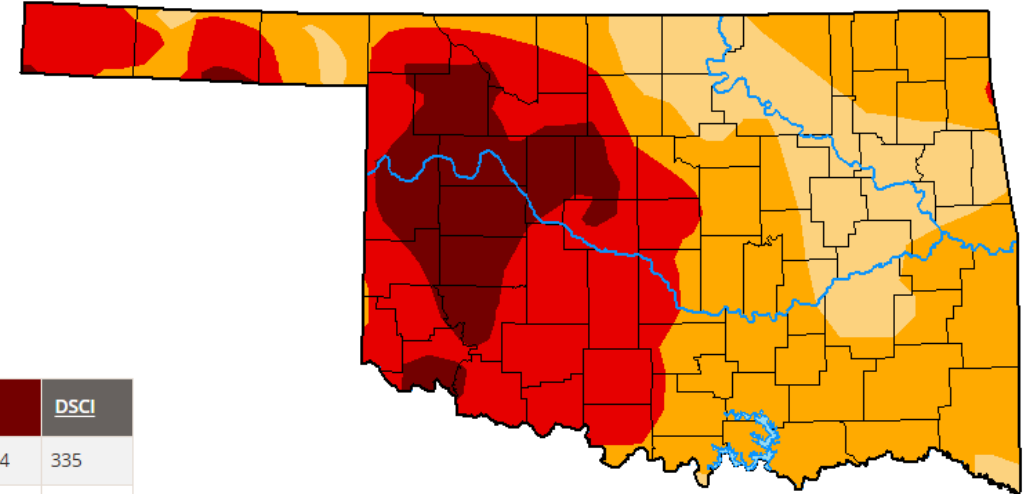


DROUGHT COVERS OKLAHOMA:

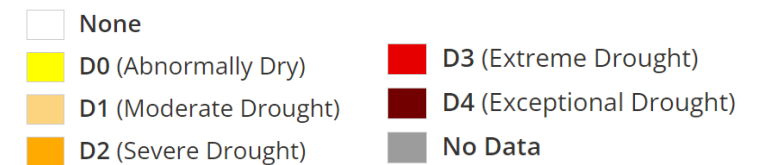
The estimated population in drought has grown by over 2 million thanks to the August heat. The entire state has now reached at least D1 drought, and exceptional drought covers multiple counties.

Week	Date	None	D0-D4	D1-D4	D2-D4	D3-D4	D4	DSCI
Current	2026-09-01	0.00	100.00	100.00	81.88	40.73	12.64	335
Last Week to Current	2026-08-25	0.00	100.00	100.00	70.53	39.97	12.06	323
3 Months Ago to Current	2026-06-02	0.69	99.31	80.76	45.54	38.42	9.21	273
Start of Calendar Year to Current	2025-12-30	20.87	79.13	53.74	13.95	4.80	0.00	152
Start of Water Year to Current	2025-09-30	64.08	35.92	4.86	0.00	0.00	0.00	41
One Year Ago to Current	2025-09-02	81.67	18.33	0.72	0.00	0.00	0.00	19

Estimated Population in Drought Areas: **3,751,351**



Intensity

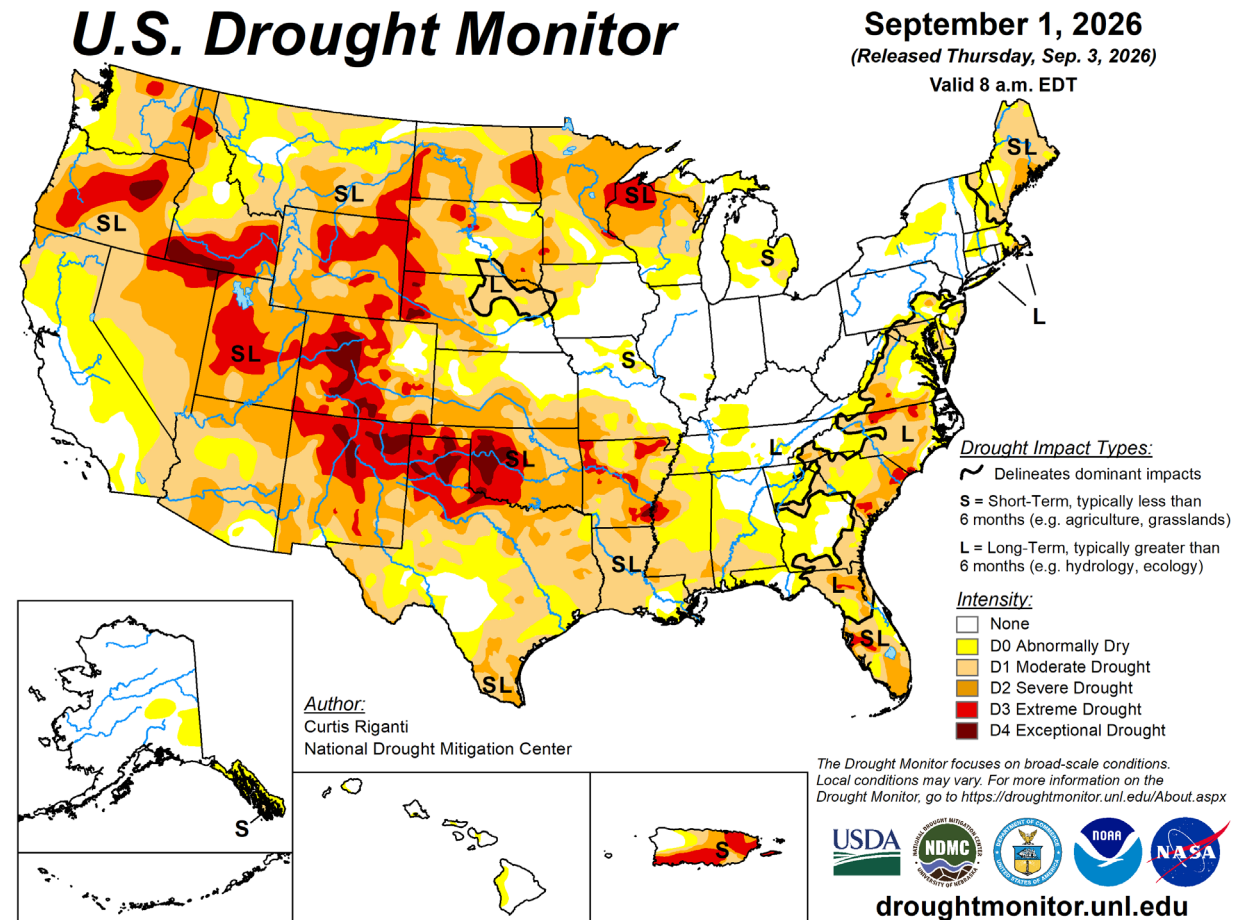


U.S. DROUGHT MONITOR – NATIONWIDE MAP



NATIONAL DROUGHT IMPACTS:

- Oklahoma wasn't the only state hit with a hot, dry August. Drought has grown significantly in the South.
- On top of drought conditions reaching previously unaffected states, multiple states show increases in D4 drought.

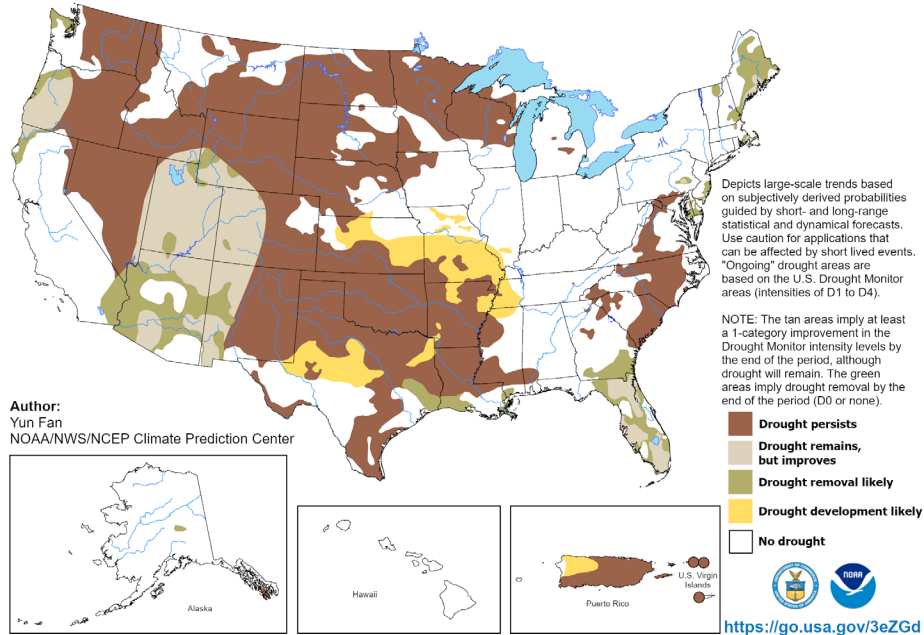


U.S. DROUGHT OUTLOOK MAPS



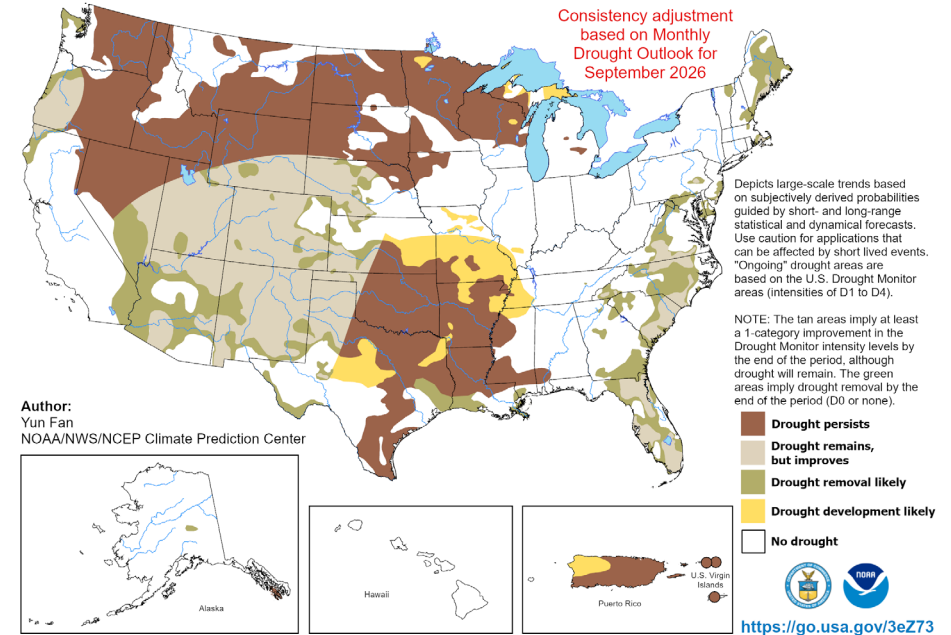
U.S. Monthly Drought Outlook Drought Tendency During the Valid Period

Valid for September 2026
Released August 31, 2026



U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period

Valid for September 1 - November 30, 2026
Released August 31, 2026

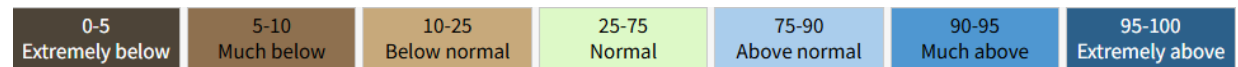
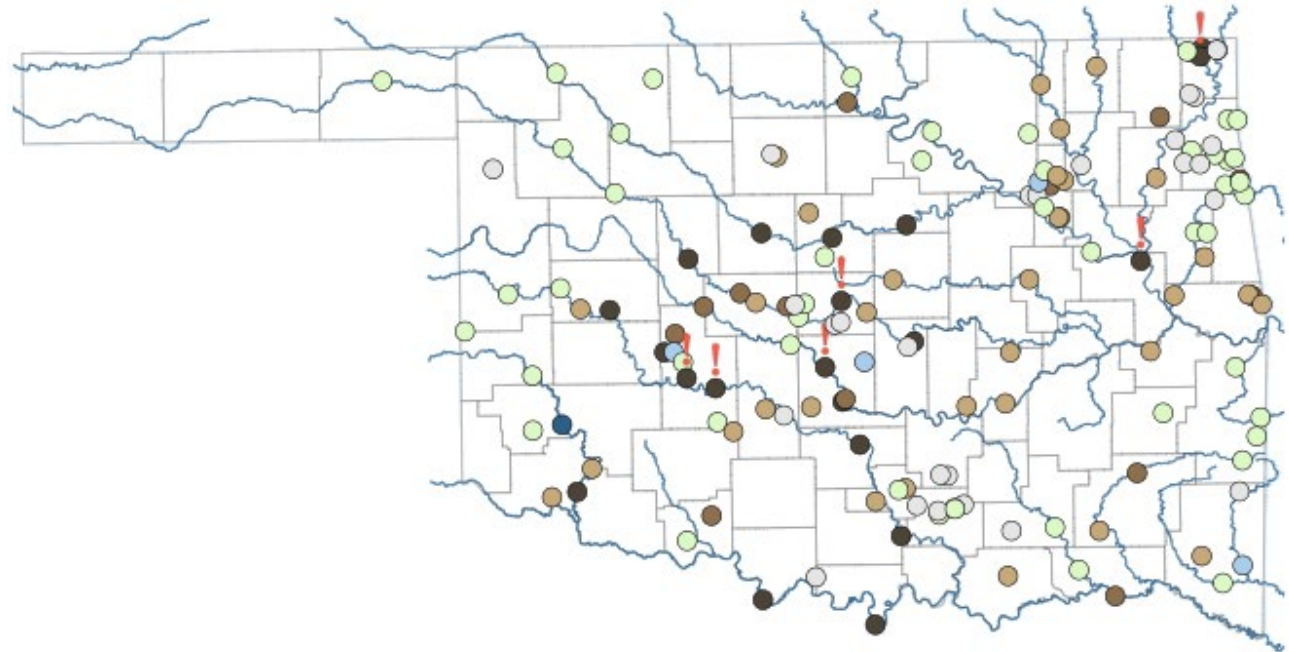


U.S. DROUGHT OUTLOOK SUMMARY:

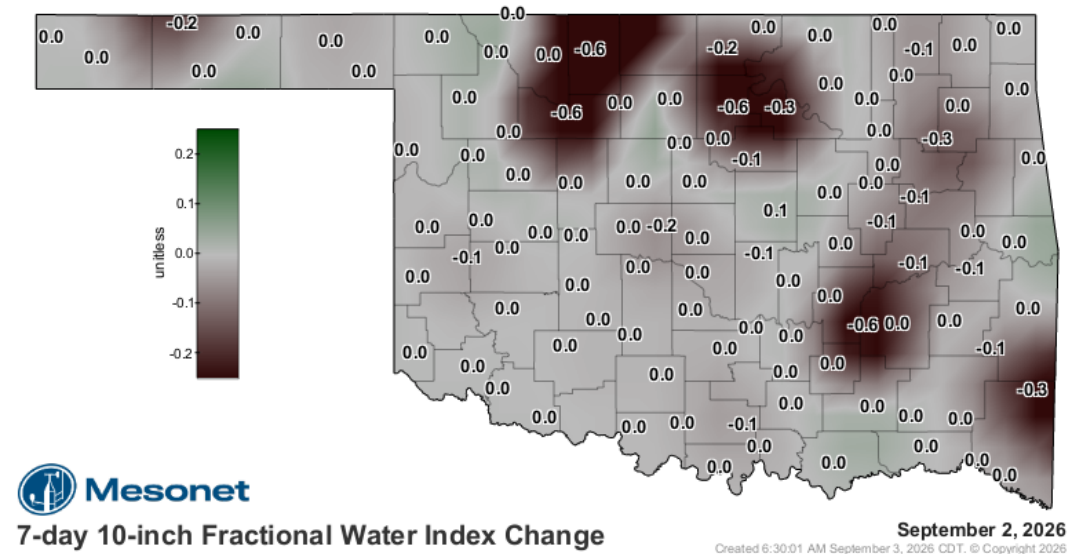
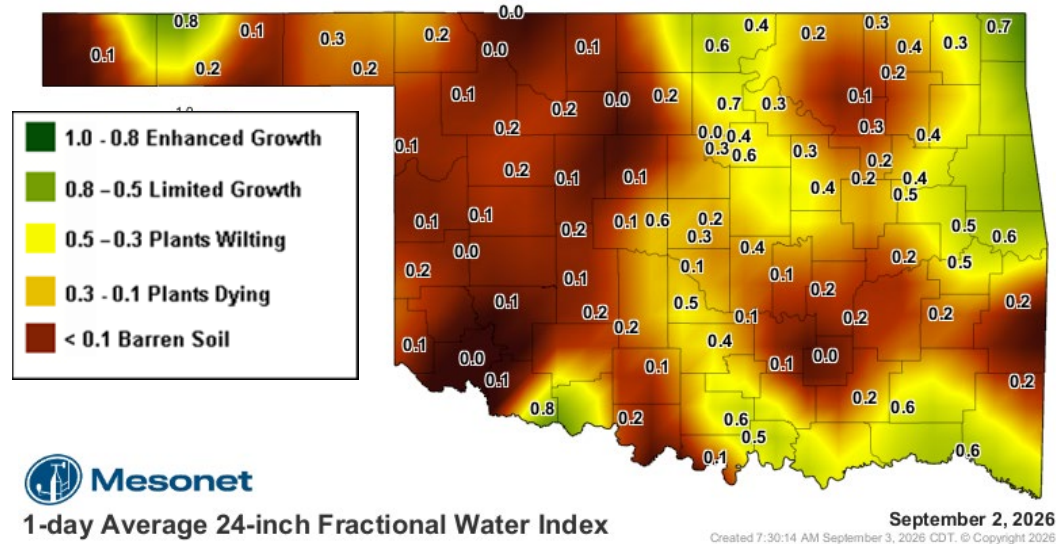
The drought outlook maps show little promise of relief in September. October and November could bring some improvement, but for how much of the state remains to be seen.

STREAMFLOW CONDITIONS:

- Streamflow ratings are made by comparing current readings against historic 120-day readings.
- As expected with the hot and dry conditions – multiple sample sites are now extremely below normal.
- September's cooler weather should help recovery, but we still need rain.



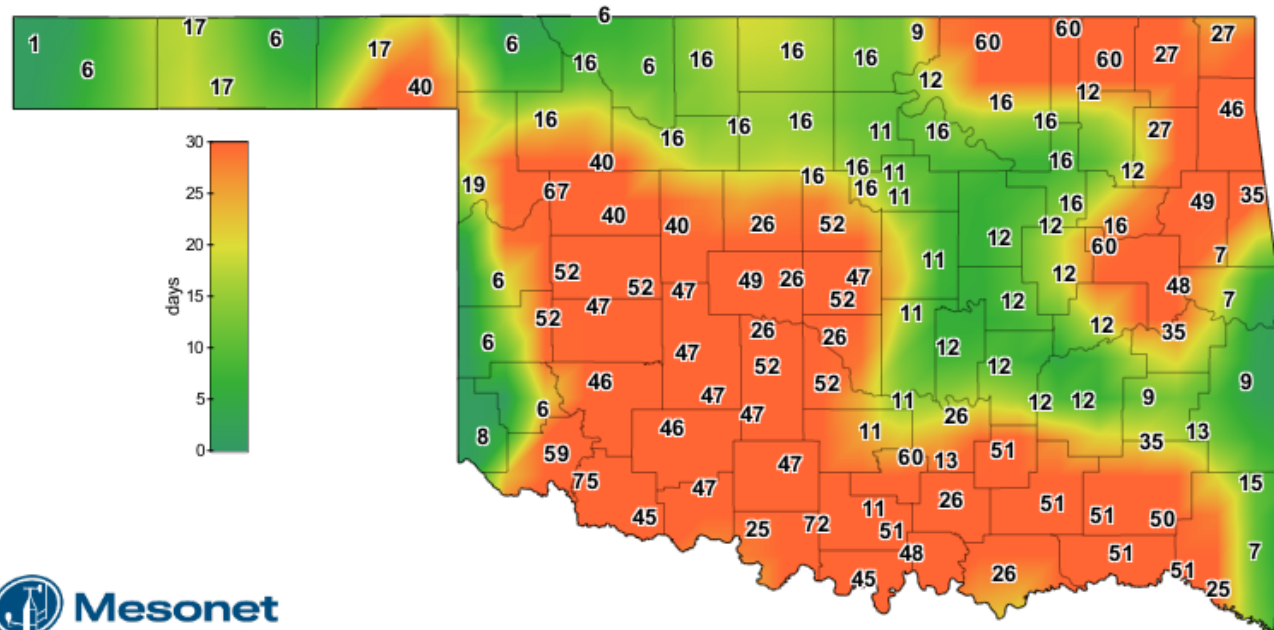
SOIL MOISTURE MAPS



SHORT-TERM SOIL MOISTURE STATUS:

No surprises here – soils are mostly dry and showing no signs of improvement at the moment. Any September rainfall will need to rehydrate the root zones before reaching our aquifers.

DAYS SINCE LAST RAINFALL



Consecutive Days With Less Than 0.25" Rainfall

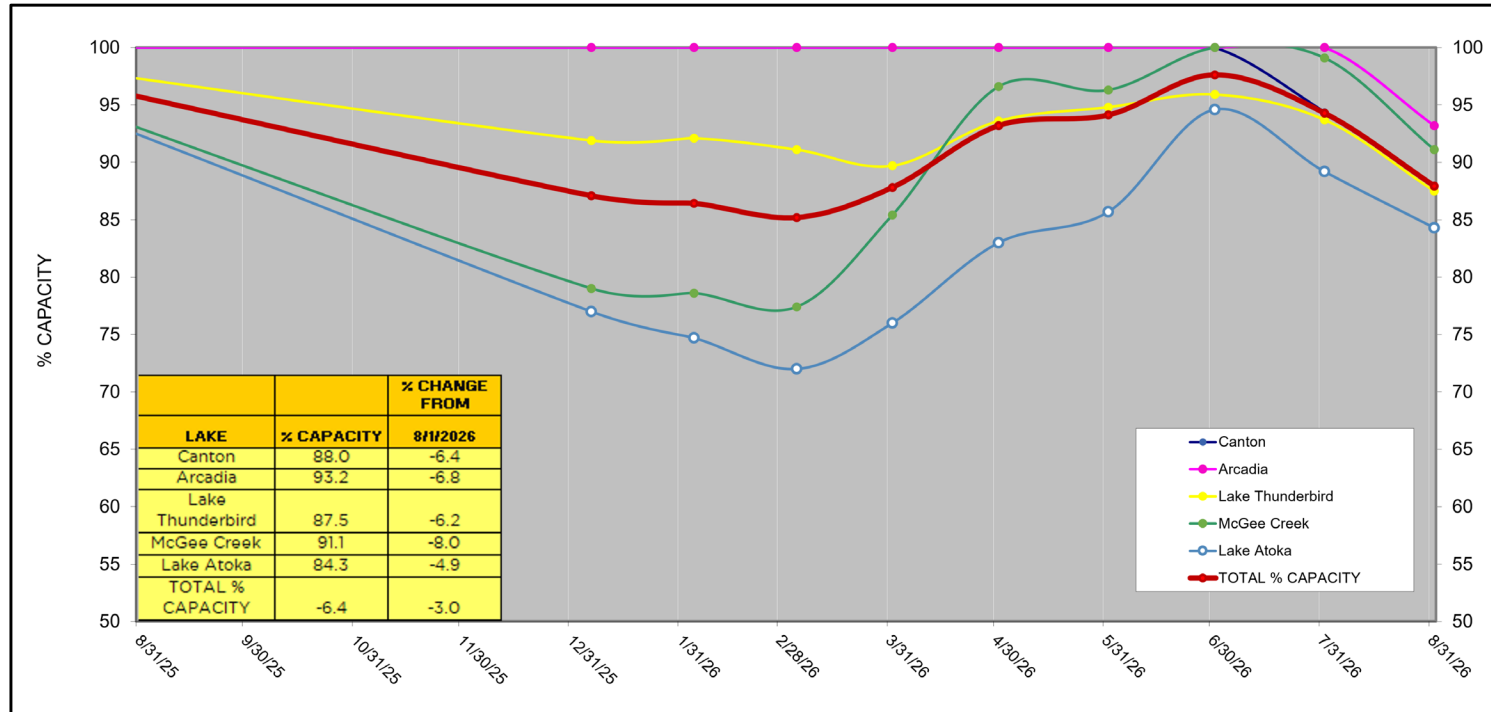
September 2, 2026

Created 8:15:02 AM September 3, 2026 CDT. © Copyright 2026

HALFWAY TO 100:

- Multiple counties are near or past the 50-day mark without substantial rain.
- There is still no guarantee that September brings enough rain to reset our map, but the later half shows some promise.

SURFACE WATER CONSERVATION CAPACITY – CENTRAL OK RESERVOIRS



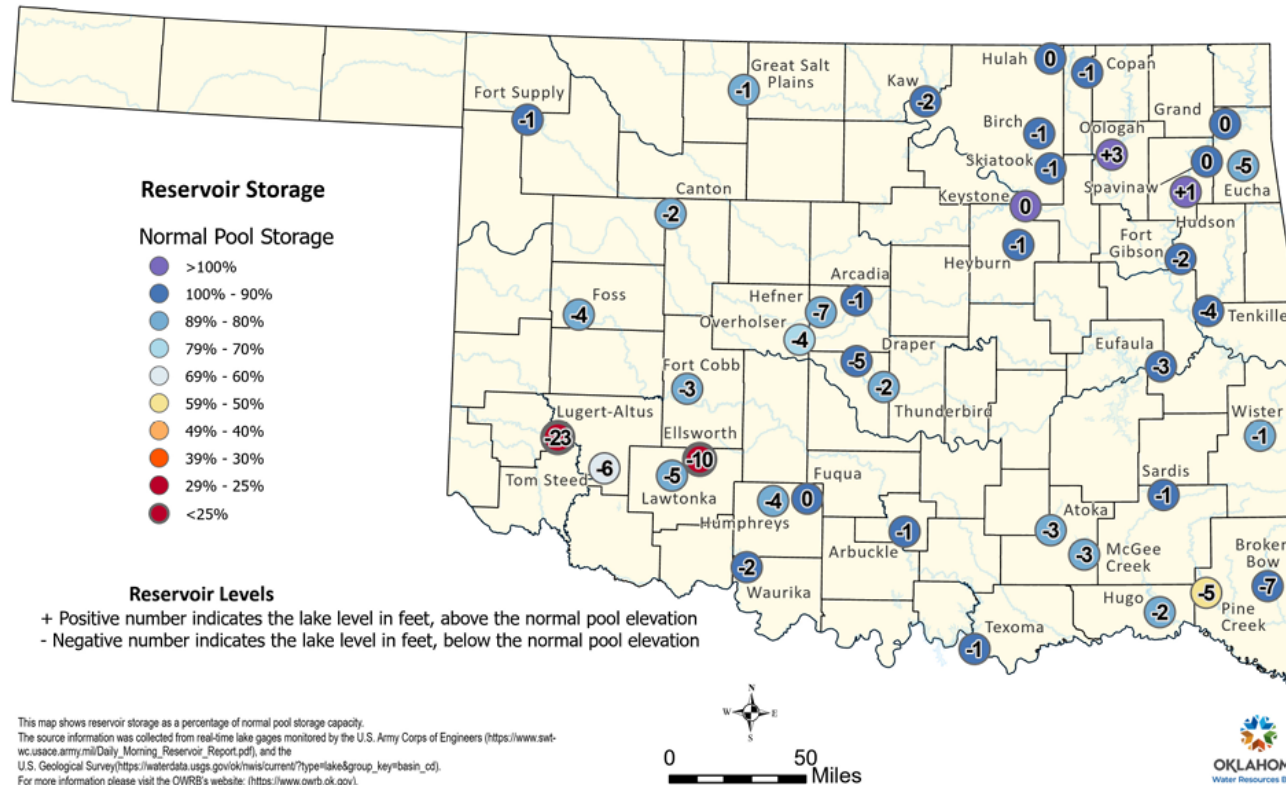
RESERVOIR TRENDS:

- Reservoir levels are dropping, as expected for our hot summer season.
- But compared to 2025, the heat and drought this season are causing reservoir levels to drop at a faster rate.

OKLAHOMA RESERVOIR LEVELS AND STORAGE



Oklahoma Reservoir Levels and Storage as of 9/2/2026



CURRENT RESERVOIR CONDITIONS:

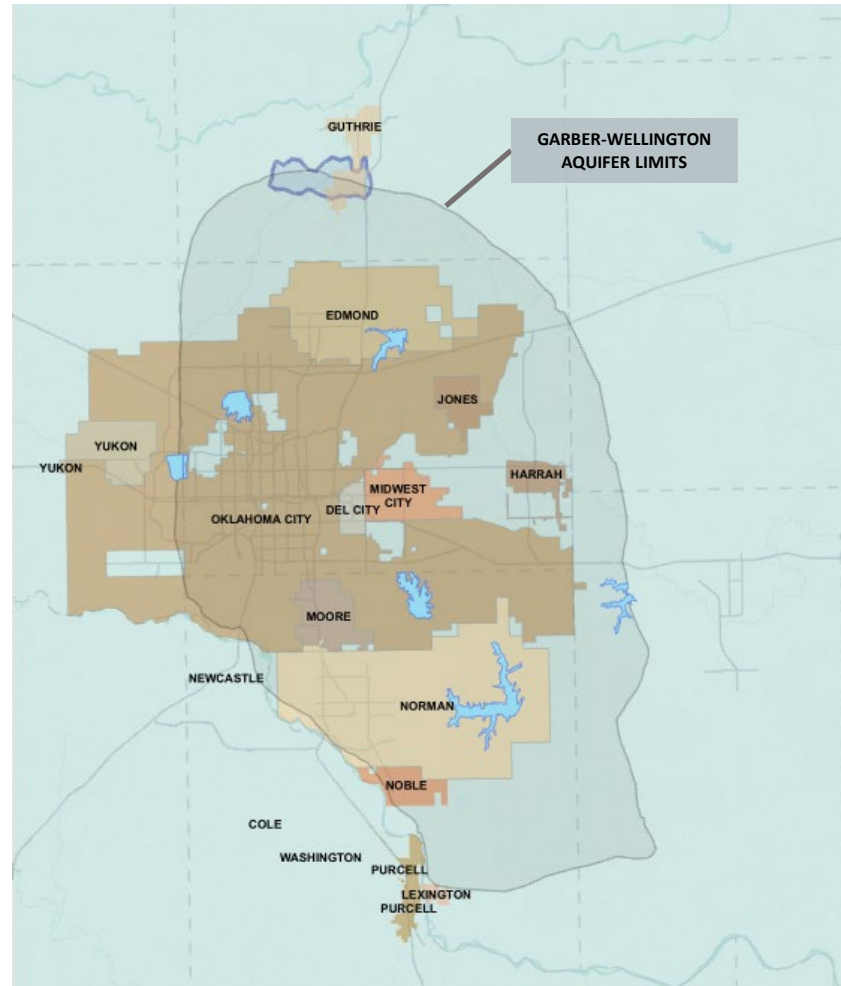
- Every reservoir across the state has experienced decreased water levels.
- Cooler temperatures in September should help decrease evaporation, but once again, rain is the real fix.

MONTHLY AQUIFER RECHARGE

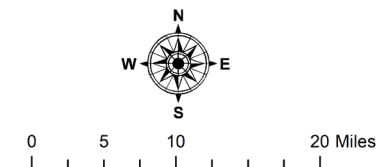
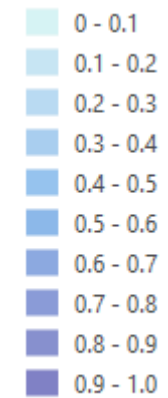


ONE LUCKY WINNER:

- Modeling shows a small area in Guthrie as the only place to receive any recharge.
- A combination of sparse rain in July and August likely helped some water seep through the dry soil. But this is a very small win in a big drought.



Recharge in Inches

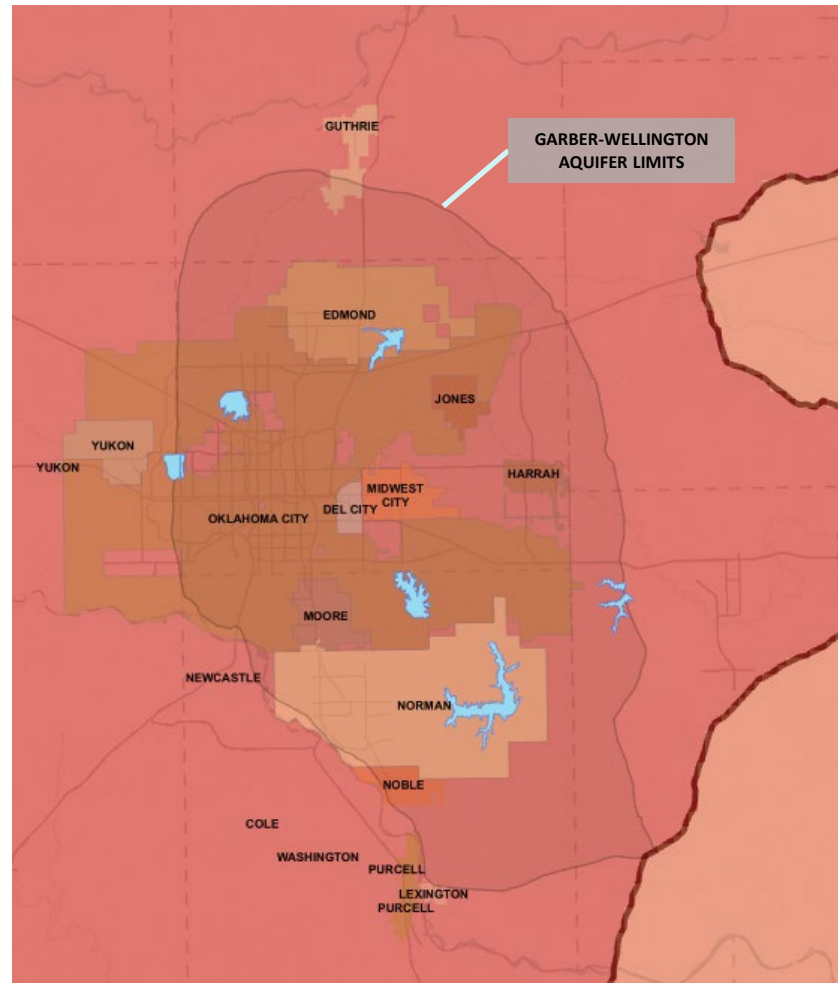


12-MONTH CUMULATIVE AQUIFER RECHARGE

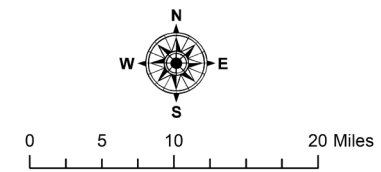
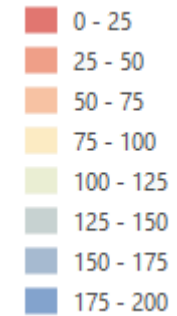


NO CHANGE:

- It's not a mistake – this month's map is unchanged from the previous one.
- If we continue our current trend, the small amount of cumulative recharge we do have will disappear too. And unless we see extraordinary storms soon, expect the red to stick around a while.



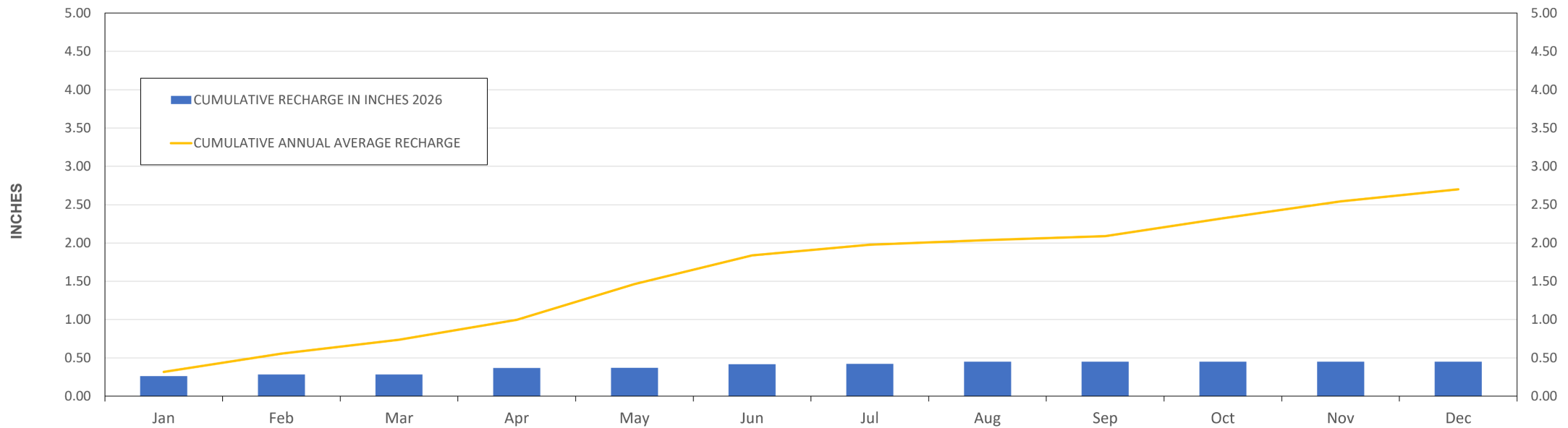
Percent of Cumulative Recharge



RECHARGE CHARTS: CENTRAL OKLAHOMA AQUIFER SYSTEM



CUMULATIVE RECHARGE FOR THE CENTRAL OKLAHOMA AQUIFER

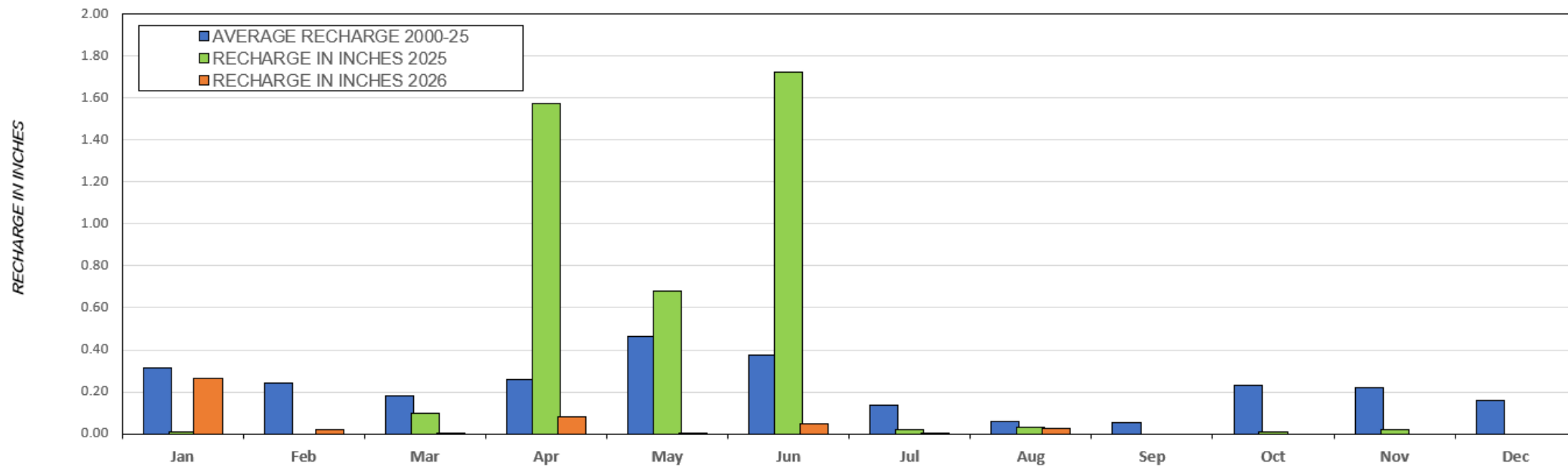


Look very closely and you can see our 0.03 inches of August recharge on the graph. You can also see that we are over 1.5 inches below our average annual recharge.

RECHARGE CHARTS: CENTRAL OKLAHOMA AQUIFER SYSTEM CONT.

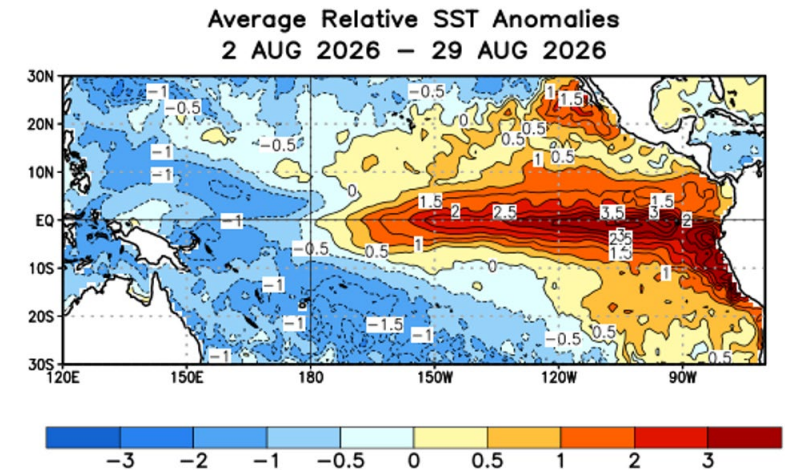
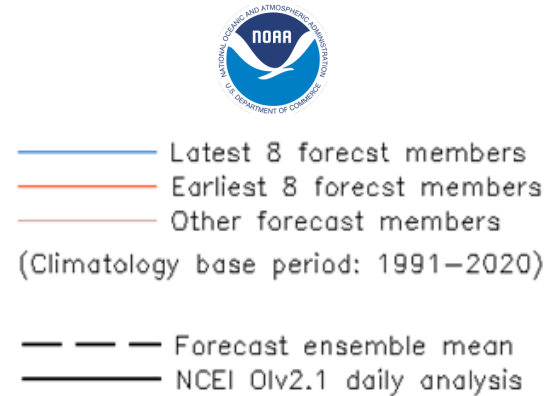
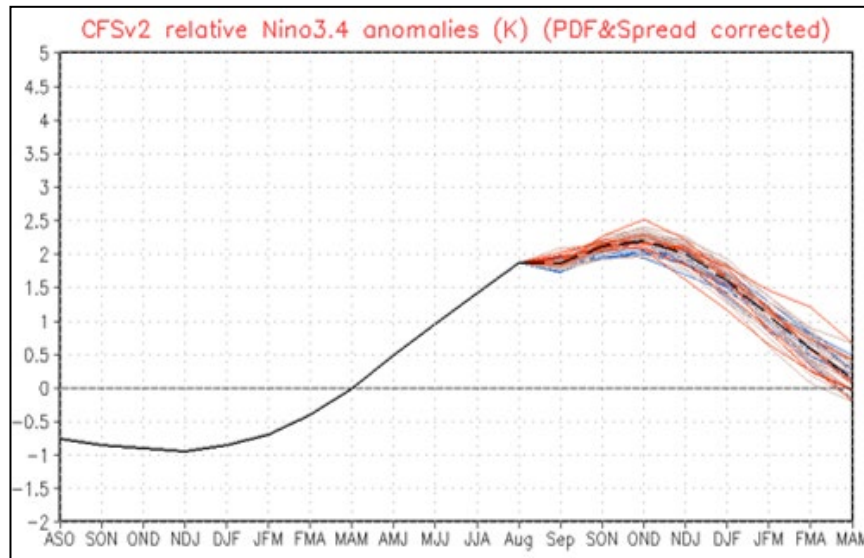


MONTHLY AQUIFER RECHARGE 2026



Over halfway through the year and only January came close to our average recharge. With luck we'll see our October - December numbers climb, but don't expect a wet season like 2025.

ENSO CYCLE – CURRENT PATTERNS AND PREDICTIONS



CLIMATE PATTERN UPDATE (ENSO):

The “super” El Niño predictions are holding true as the year progresses. But we still need to hold out until later this year for consistent rain. However, there is a good chance for a wet winter.



AN ABOMINABLE AUGUST

- If you enjoy 100+ degree weather and dislike getting rained on, then this was a great month for you! For everyone else, including our soil and aquifers, August was ruthless.
- Thankfully, September is already bringing slightly cooler weather. But based on the climate data, we should still expect a warmer month than average.
- We could see some rain in September, but October, November, and December are the most likely candidates for storms to roll through.
- Once again, continue planning for another month of drought. Monitor your supplies, check your water infrastructure, and keep pushing those water conservation plans.

THANK YOU!

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ASSOCIATION OF
CENTRAL OKLAHOMA
GOVERNMENTS