



ACOG DROUGHT CONDITIONS

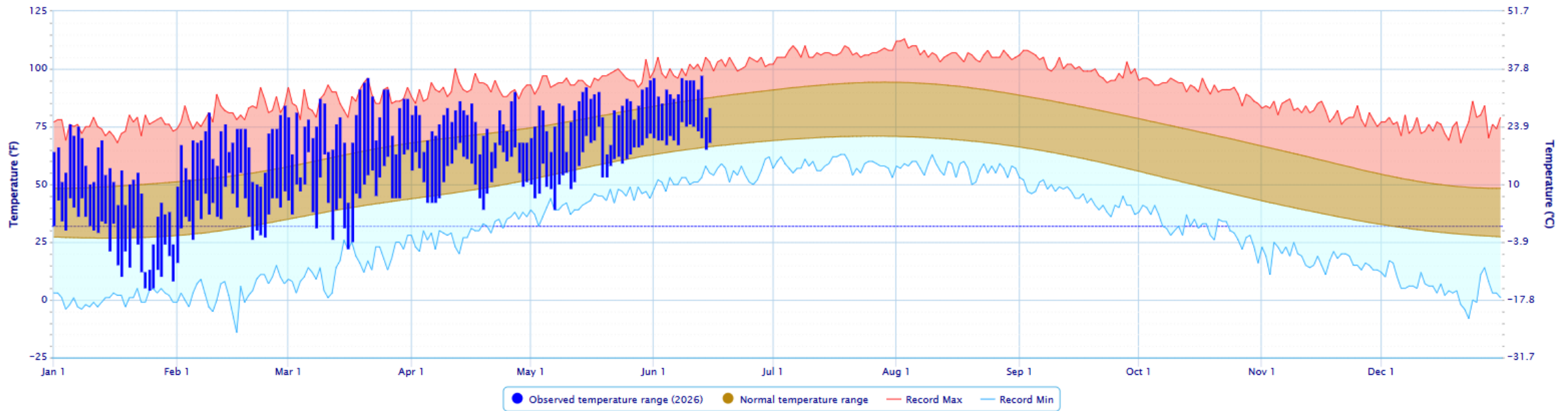
IN CENTRAL OKLAHOMA

Benjamin Matsumura
Water Resources Manager

O: 405.778.6121
bmatsumura@acogok.org

JUNE 2026

TEMPERATURE PLOT FOR OKLAHOMA CITY, OK - 2026

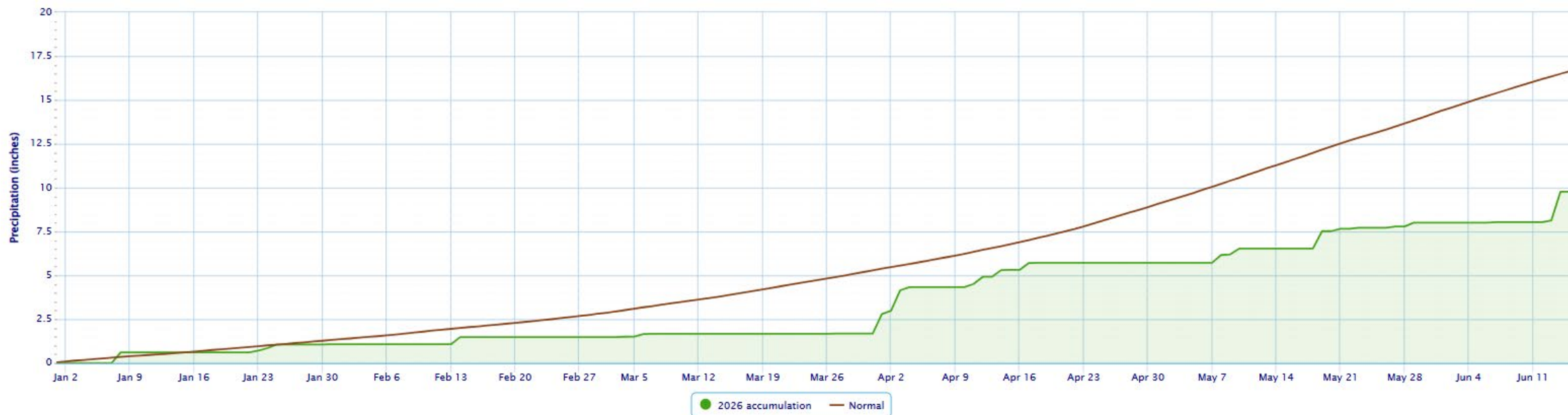


Powered by ACIS

MONTHLY TEMPERATURE TREND:

May saw a few ups and downs but stayed close to average. June looks set to continue that trend.

PRECIPITATION PLOT FOR OKLAHOMA CITY, OK - 2026



Powered by ACIS

MONTHLY PRECIPITATION TREND:

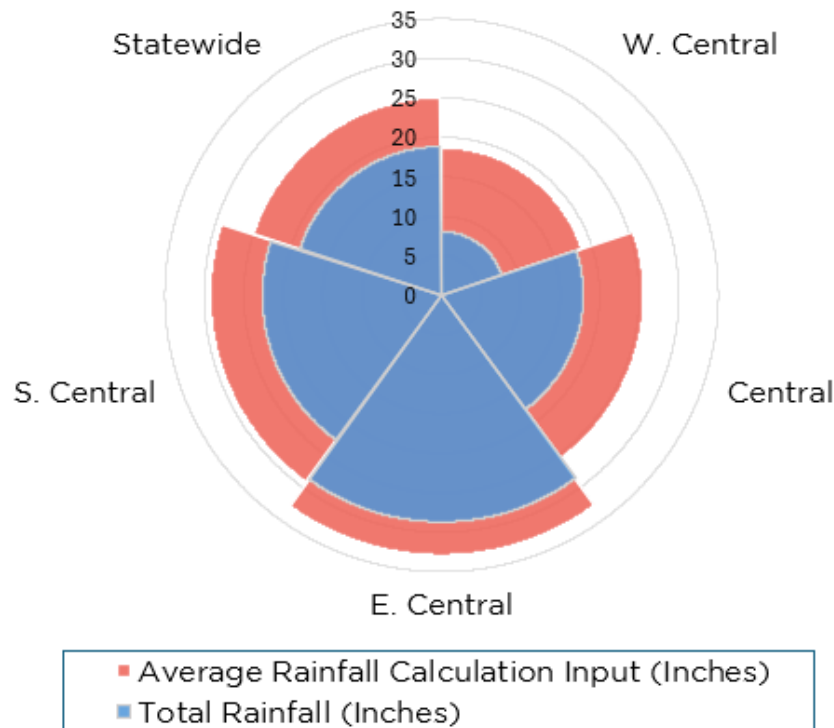
May rainfall was roughly 3 inches below normal – increasing Central Oklahoma’s deficit to over 6 inches.

WATER YEAR RAINFALL SUMMARY



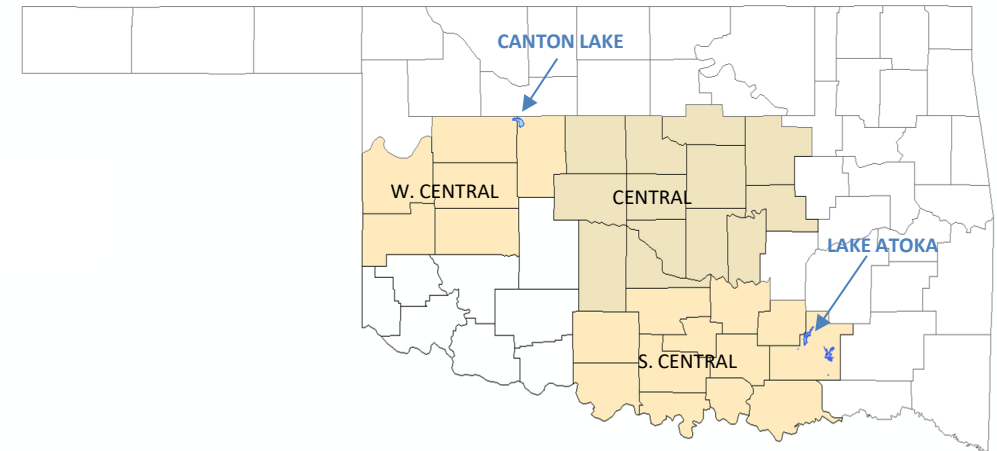
WATER YEAR RAINFALL SUMMARY

Oct 1, 2025 - June 16, 2026



CENTRAL OKLAHOMA TAKEAWAY:

- Even with a few good storms in May, rainfall was too inconsistent and too short-lived to eliminate the deficit.
- The inconsistency came partly from a steady flow of dry air, which suppressed rainstorms and tornadoes alike.

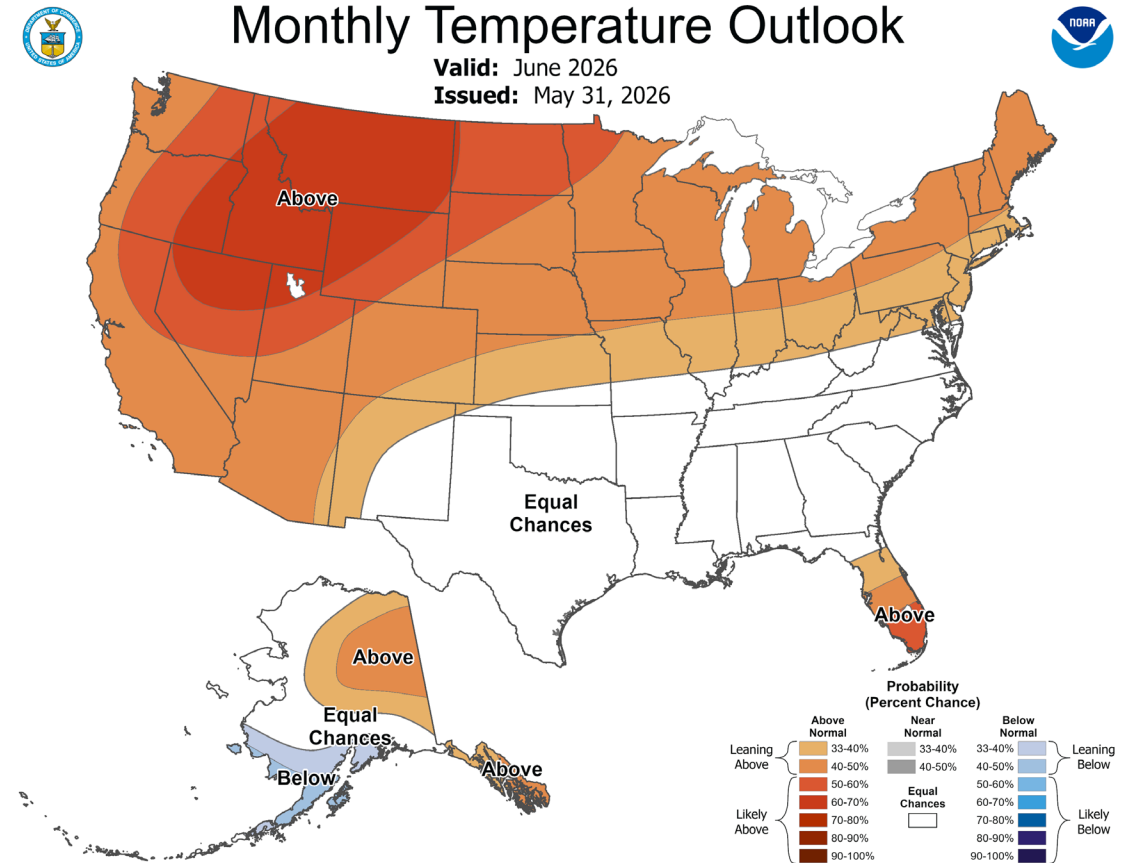


NOAA ONE-MONTH TEMPERATURE OUTLOOK



JUNE TEMPERATURE OUTLOOK:

- White areas shown as EC (Equal Chance) on these maps represent areas with no strong climate signals based on current data.
- NOAA's climate models show competing signals for Oklahoma – meaning temperatures could swing either way.
- June brought some increased temperatures but has avoided any big swings so far.

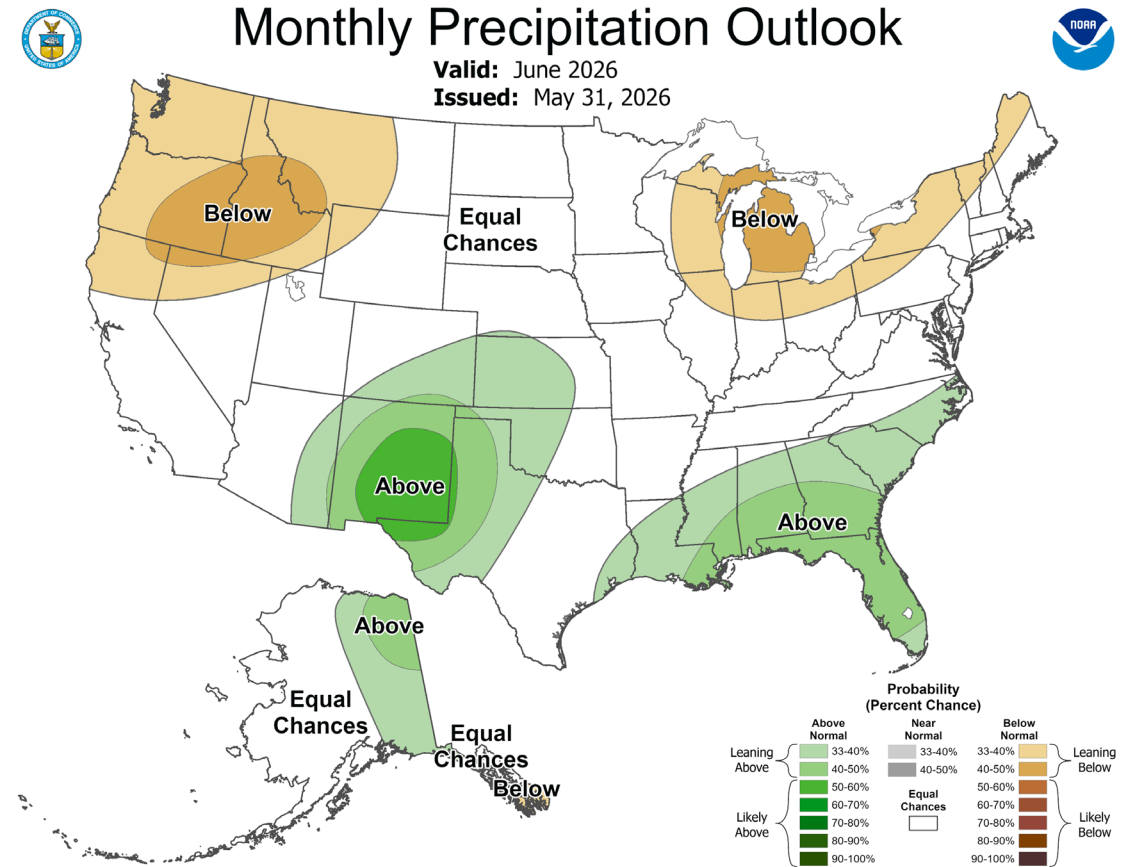


NOAA ONE-MONTH PRECIPITATION OUTLOOK

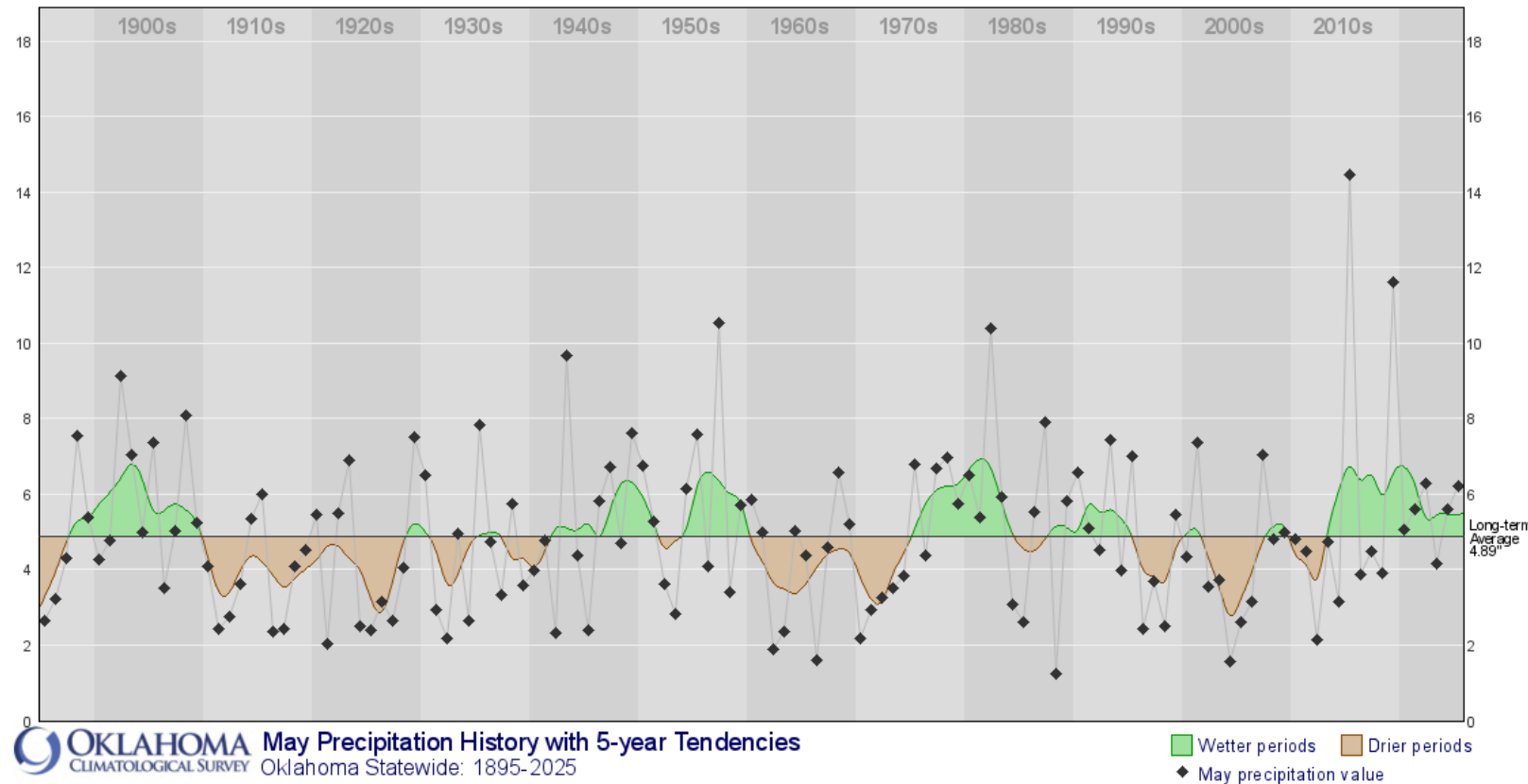


JUNE PRECIPITATION OUTLOOK:

- White areas shown as EC (Equal Chance) on these maps represent areas with no strong climate signals based on current data.
- The elevated rainfall outlook comes from a strong shift in atmospheric patterns.
- Despite this shift, June rainfall is still below average and needs an active second half to catch up.



MAY PRECIPITATION HISTORY WITH 5-YEAR TENDENCIES



HISTORICAL RAINFALL TRENDS:

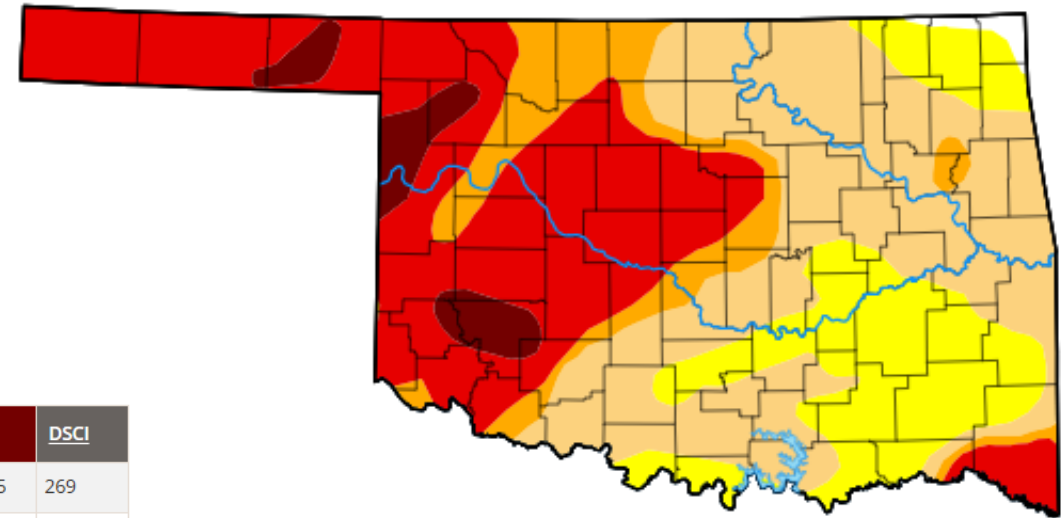
- This May finally broke the multi-year trend of wet weather – receiving almost 3.5 inches less rain than last year.

U.S. DROUGHT MONITOR - OKLAHOMA

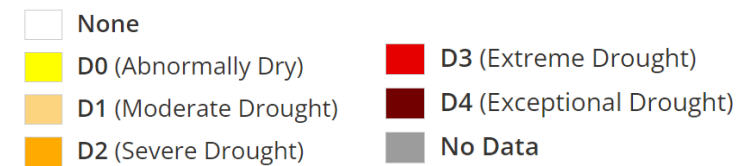


DROUGHT INTENSITY GROWS:

The weak May rains did little to fight off drought – and Western Oklahoma now shows three pockets of exceptional drought.



Intensity



| Week | Date | None | D0-D4 | D1-D4 | D2-D4 | D3-D4 | D4 | DSCI |
|-----------------------------------|----------------------------|-------|--------|-------|-------|-------|------|------|
| Current | 2026-05-26 | 0.65 | 99.35 | 81.25 | 47.07 | 37.05 | 4.35 | 269 |
| Last Week to Current | 2026-05-19 | 0.39 | 99.61 | 82.72 | 47.07 | 37.31 | 3.85 | 271 |
| 3 Months Ago to Current | 2026-02-24 | 0.00 | 100.00 | 91.22 | 31.89 | 12.08 | 0.00 | 235 |
| 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 | 2025-05-27 | 87.75 | 12.25 | 3.32 | 0.00 | 0.00 | 0.00 | 16 |

Estimated Population in Drought Areas: **3,389,100**

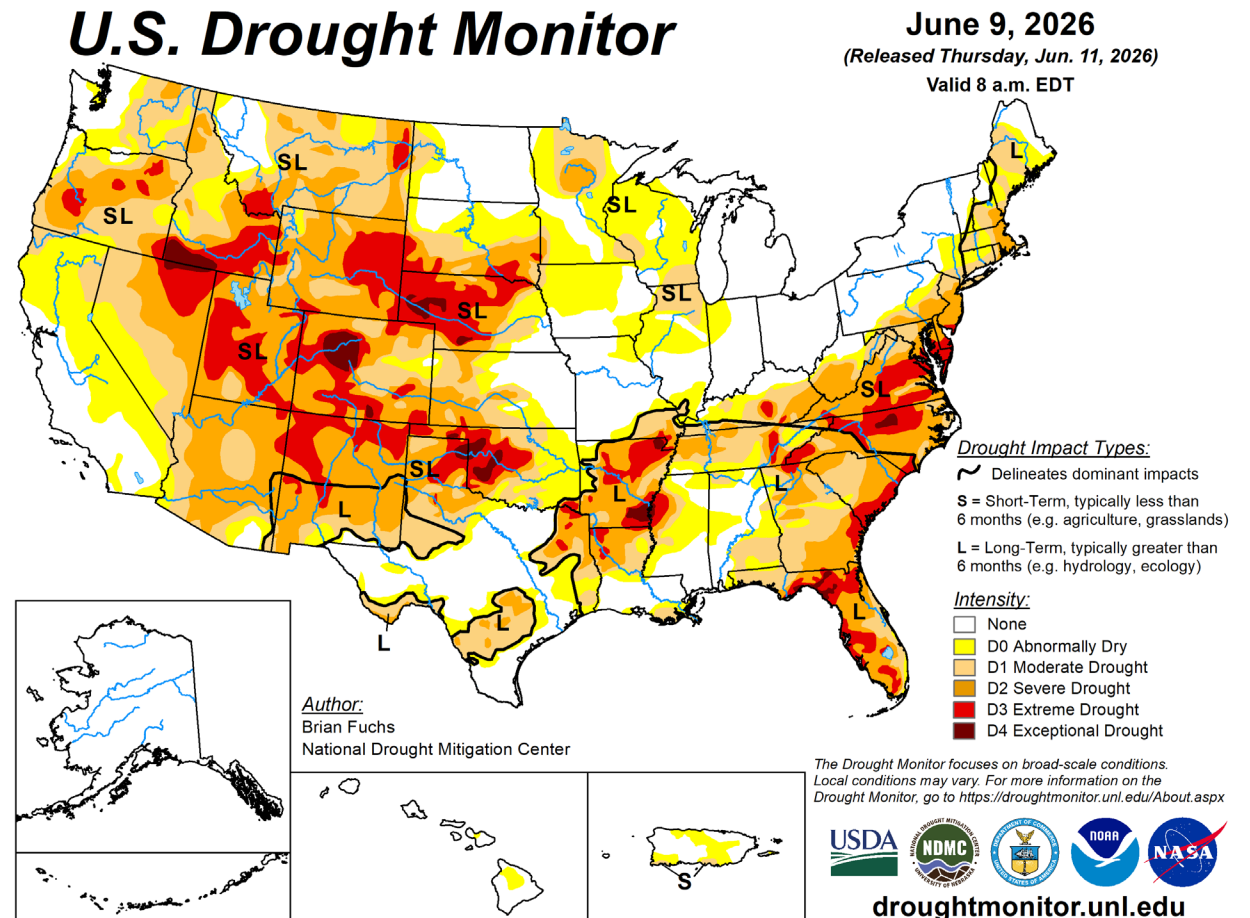


U.S. DROUGHT MONITOR – NATIONWIDE MAP



NATIONAL DROUGHT IMPACTS:

- While exceptional drought conditions have decreased slightly, most of the US is still experiencing some level of drought.
- June has brought some relief to our Southern states, but Central and Western areas continue to fight strong drought conditions.

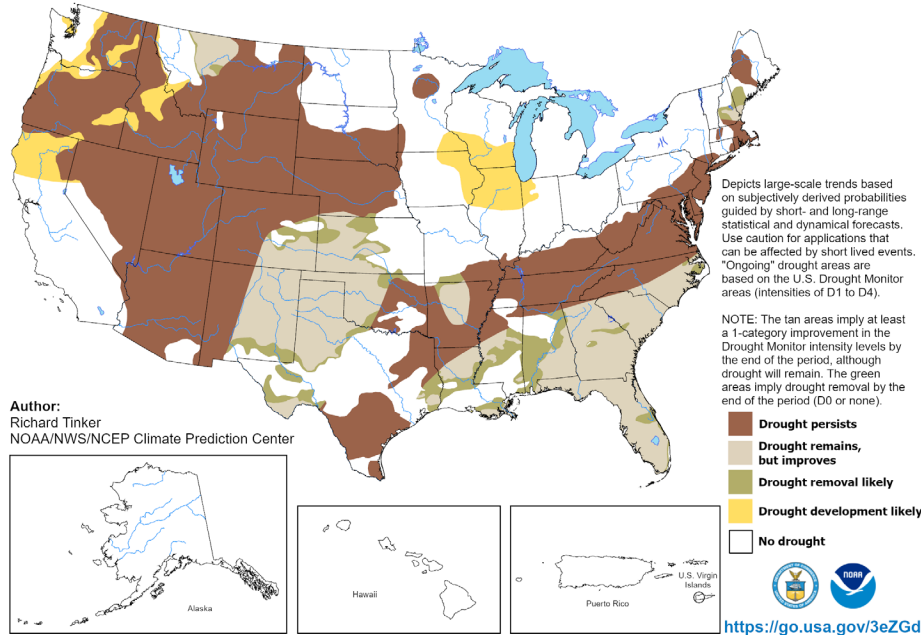


U.S. DROUGHT OUTLOOK MAPS



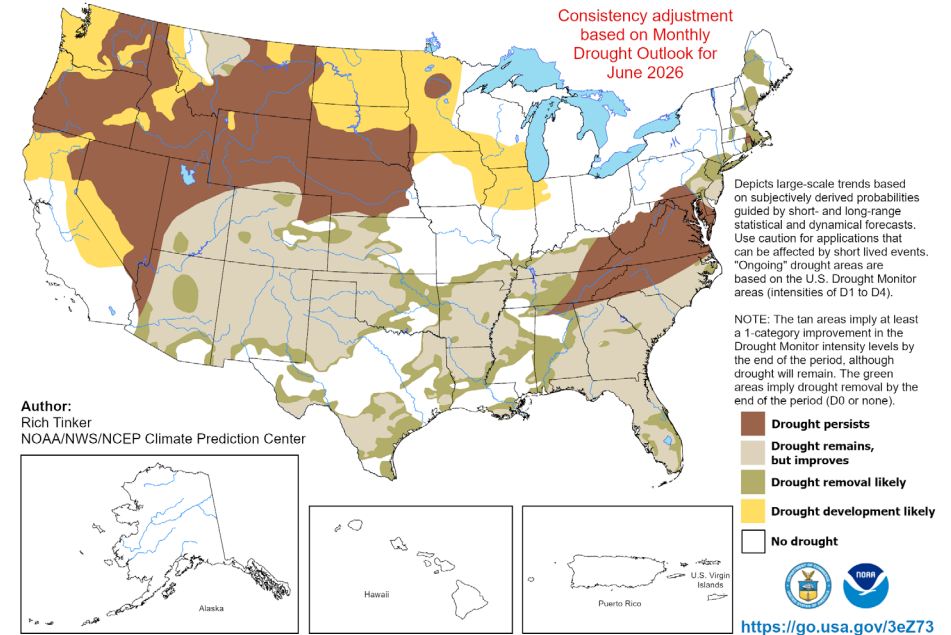
U.S. Monthly Drought Outlook Drought Tendency During the Valid Period

Valid for June 2026
Released May 31, 2026



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

Valid for June 1 - August 31, 2026
Released May 31, 2026

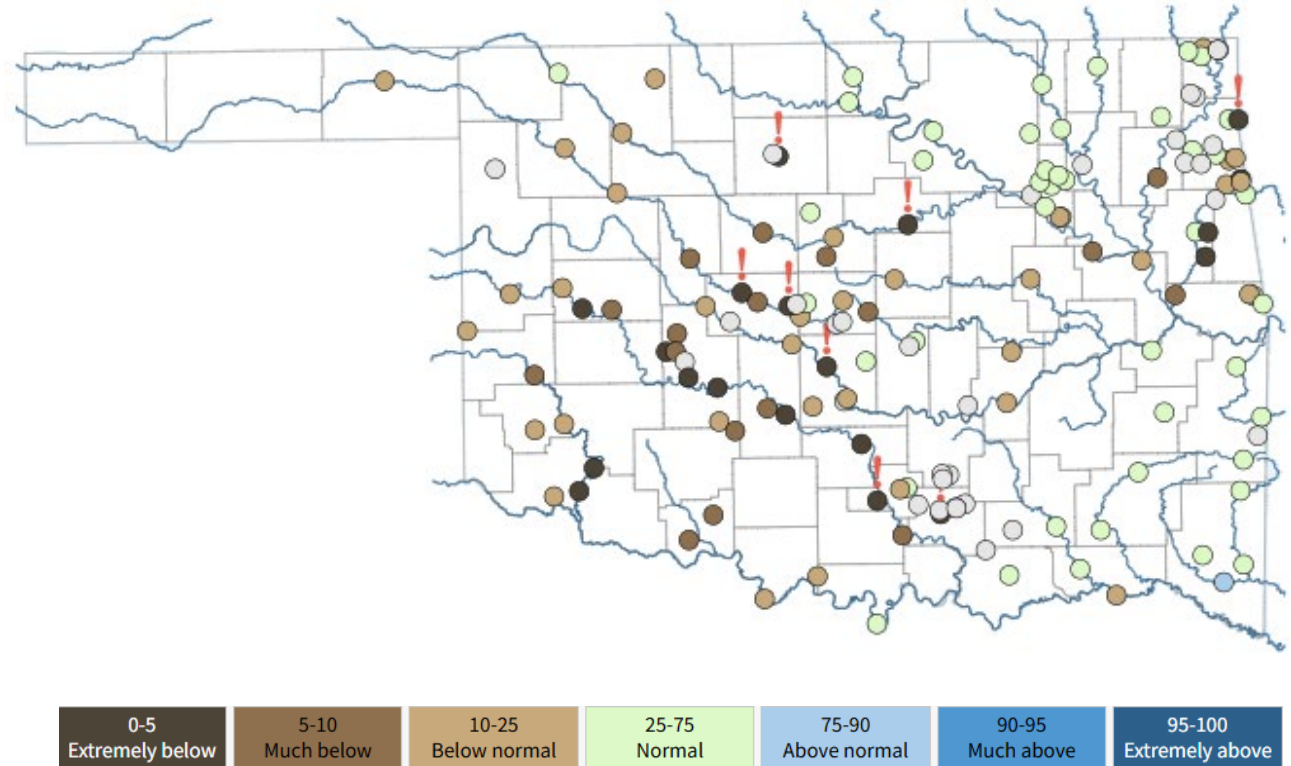


U.S. DROUGHT OUTLOOK SUMMARY:

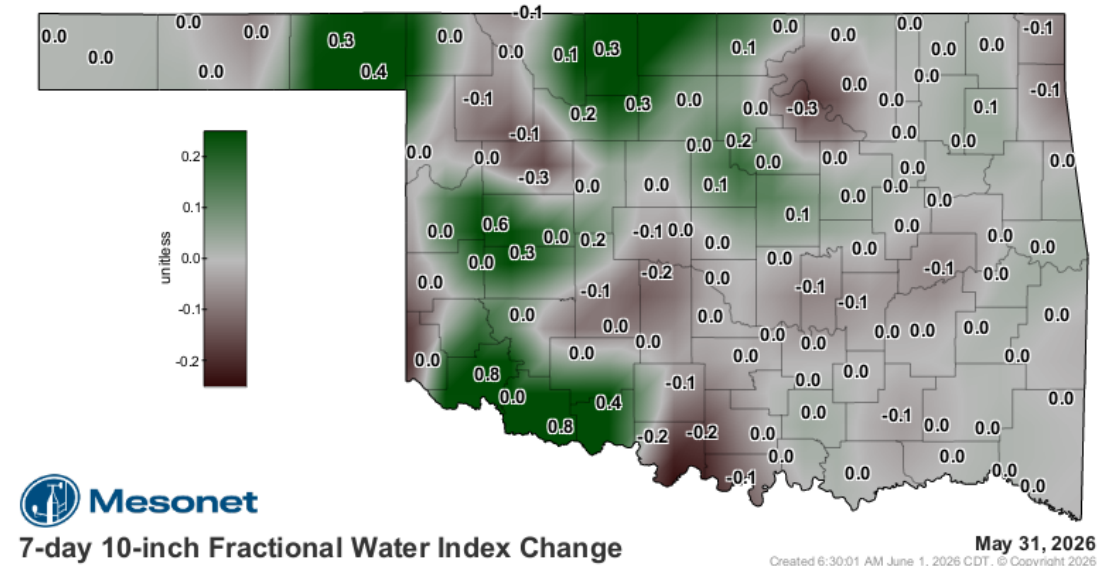
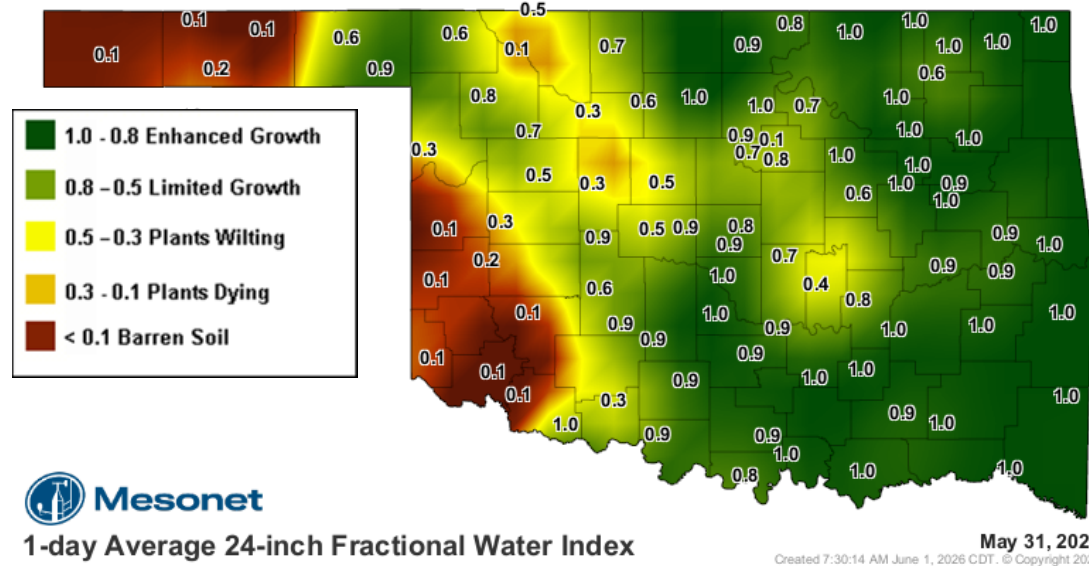
Monthly and seasonal drought predictions closely follow NOAA's precipitation outlook – and June rainfall has matched predictions closely for multiple areas.

STREAMFLOW CONDITIONS:

- Streamflow ratings are made by comparing current readings against historic 120-day readings.
- May's targeted rainfall improved eastern stream conditions while concentrating low-flow conditions in the west.
- June is following a similar pattern, as Eastern Oklahoma has seen above average rainfall in the last 30 days.



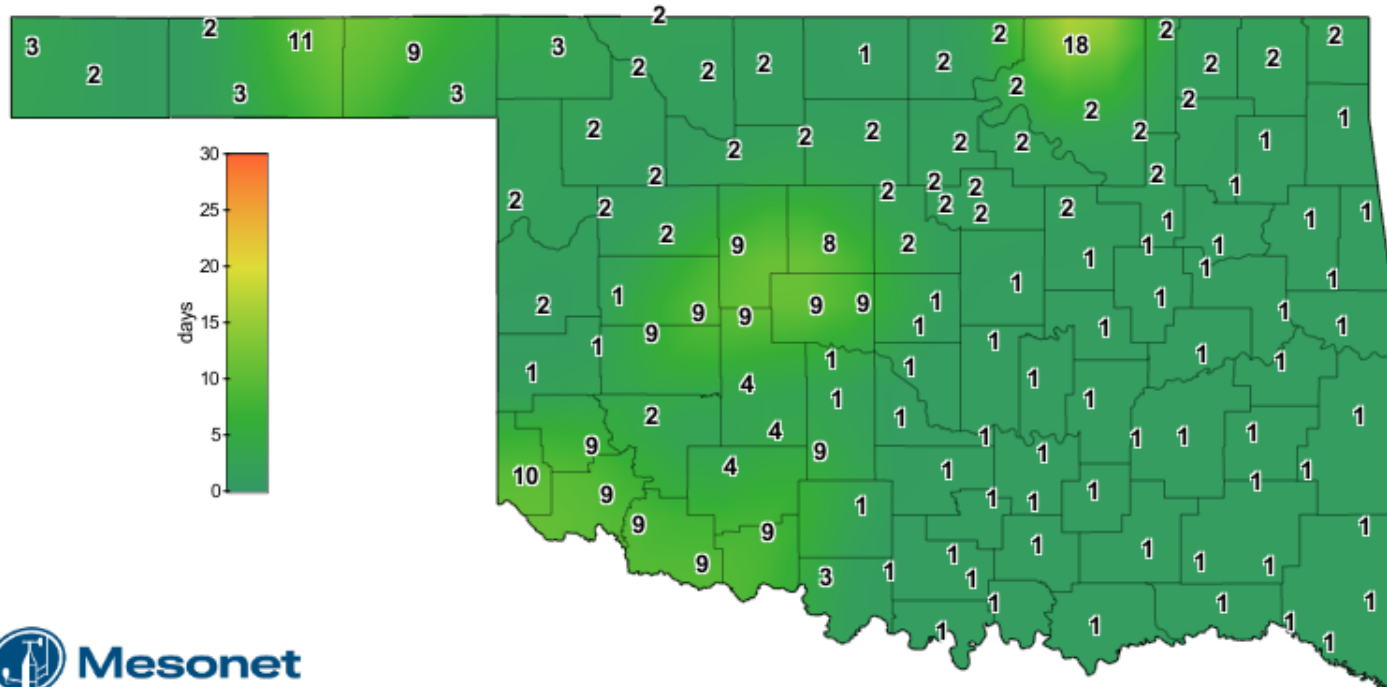
SOIL MOISTURE MAP



SHORT-TERM SOIL MOISTURE STATUS:

The scattered May rainfall improved shallow soil conditions – but a drier month overall caused weakening soil moisture at depth.

DAYS SINCE LAST RAINFALL



Consecutive Days With Less Than 0.25" Rainfall

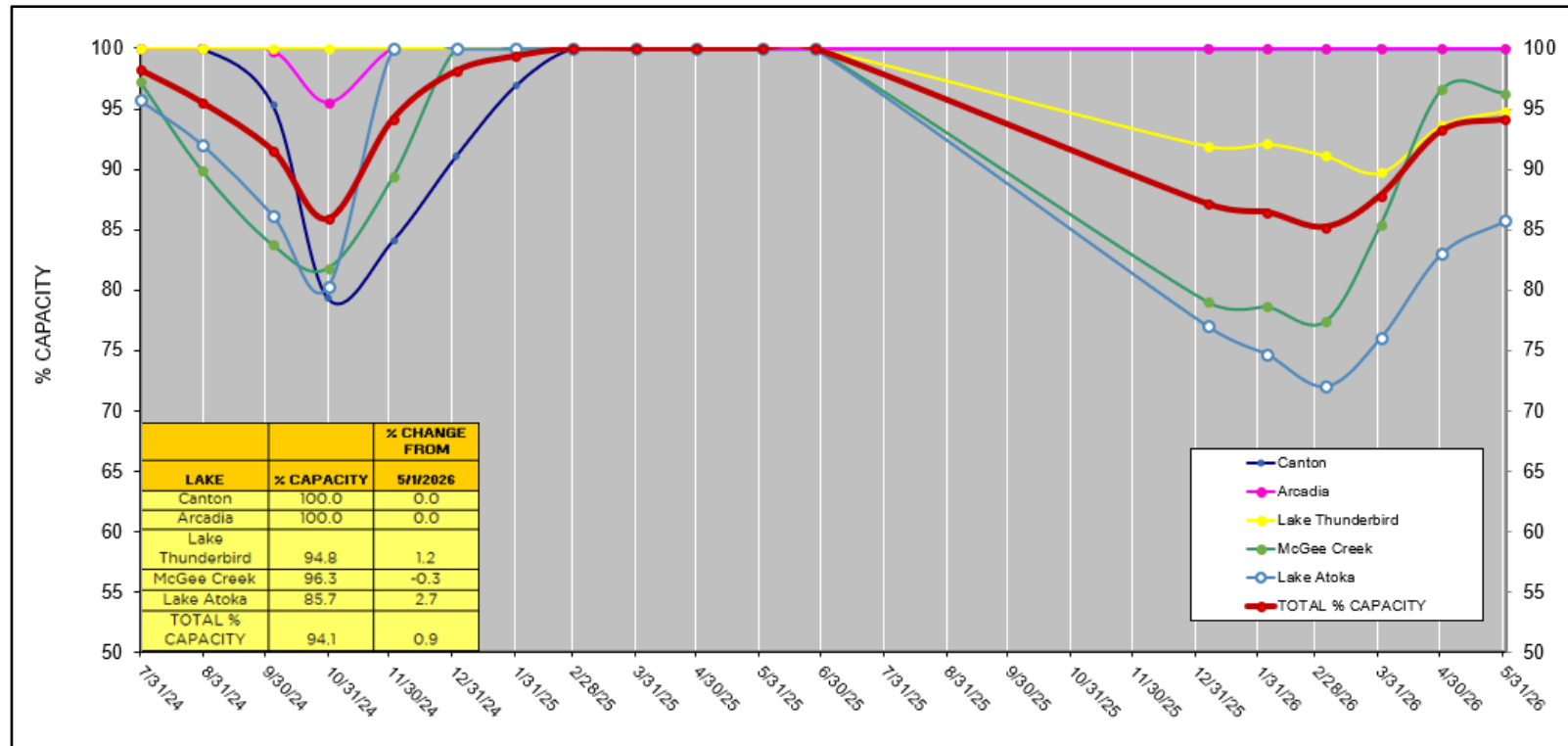
June 15, 2026

Created 8:15:01 AM June 16, 2026 CDT. © Copyright 2026

A WELCOME RESET:

- May rainfall finally pushed westward to break the Panhandle's long dry spell.
- It will take much more rain to end the drought, but getting the soil rehydrated is an important first step.
- June is continuing the westward campaign, even managing to green up the stubborn areas from May.

SURFACE WATER CONSERVATION CAPACITY – CENTRAL OK RESERVOIRS



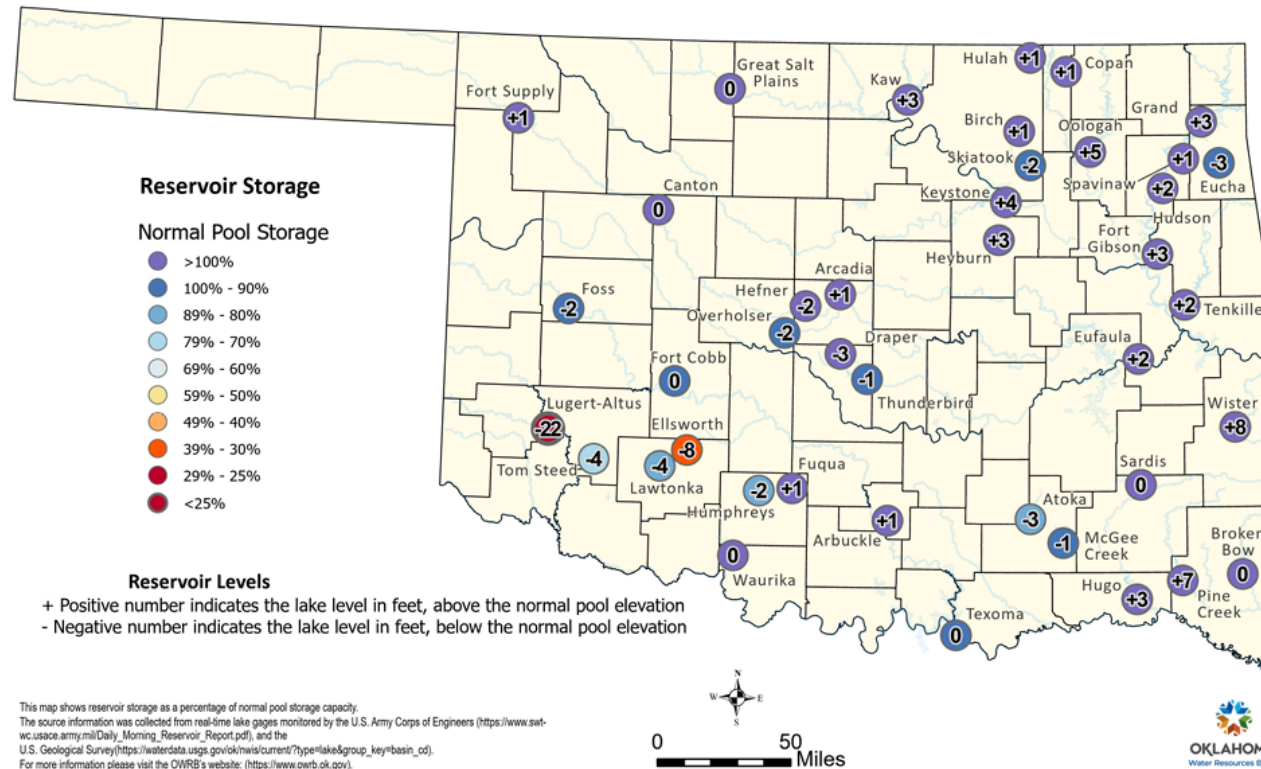
RESERVOIR TRENDS:

- Reservoir levels stayed mostly the same, with some slight increases thanks to the rain and careful management.

OKLAHOMA RESERVOIR LEVELS AND STORAGE



Oklahoma Reservoir Levels and Storage as of 6/9/2026



CURRENT RESERVOIR CONDITIONS:

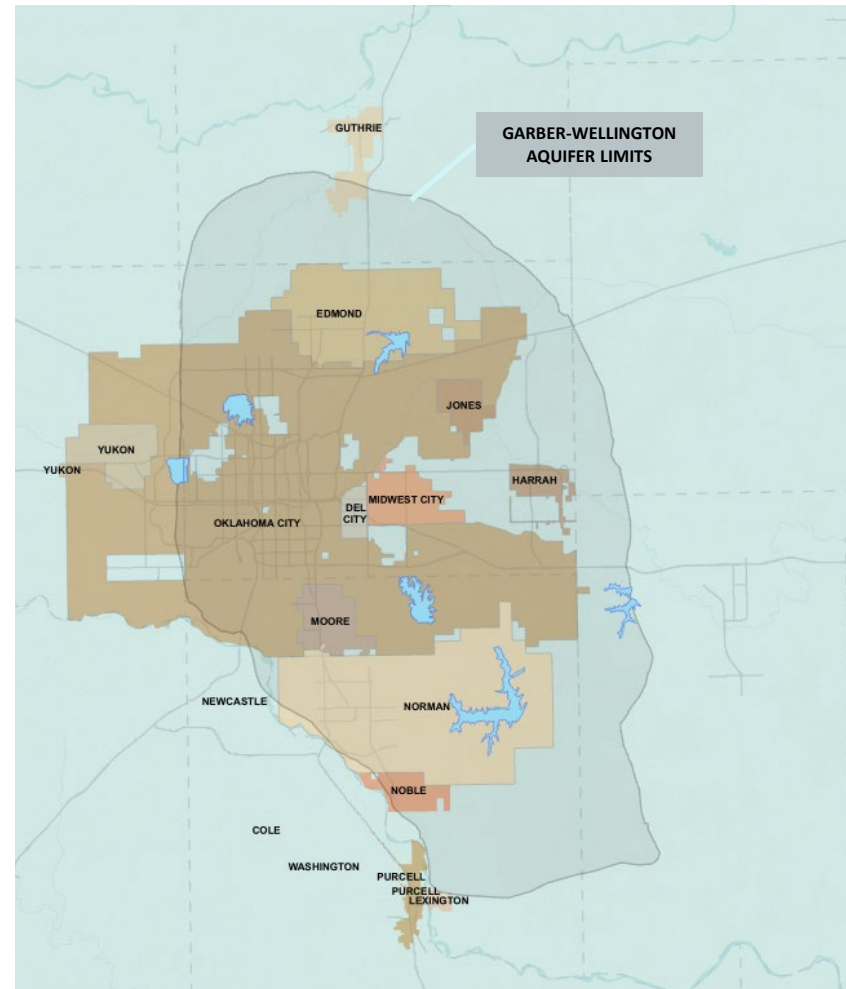
- Oklahoma reservoir levels are tracked as a percentage of normal storage.
- Current reservoir levels remain nearly identical to last month.

MONTHLY AQUIFER RECHARGE

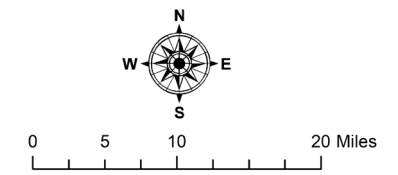
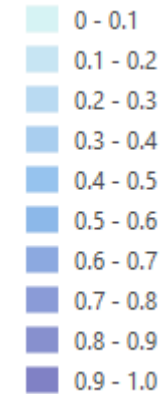


JUST NOT ENOUGH:

- The scattered showers in May were too light and inconsistent to provide any good recharge.
- It will take much stronger rain in June to fight the dry soil and warm temperatures before water can reach our aquifers.



Recharge in Inches

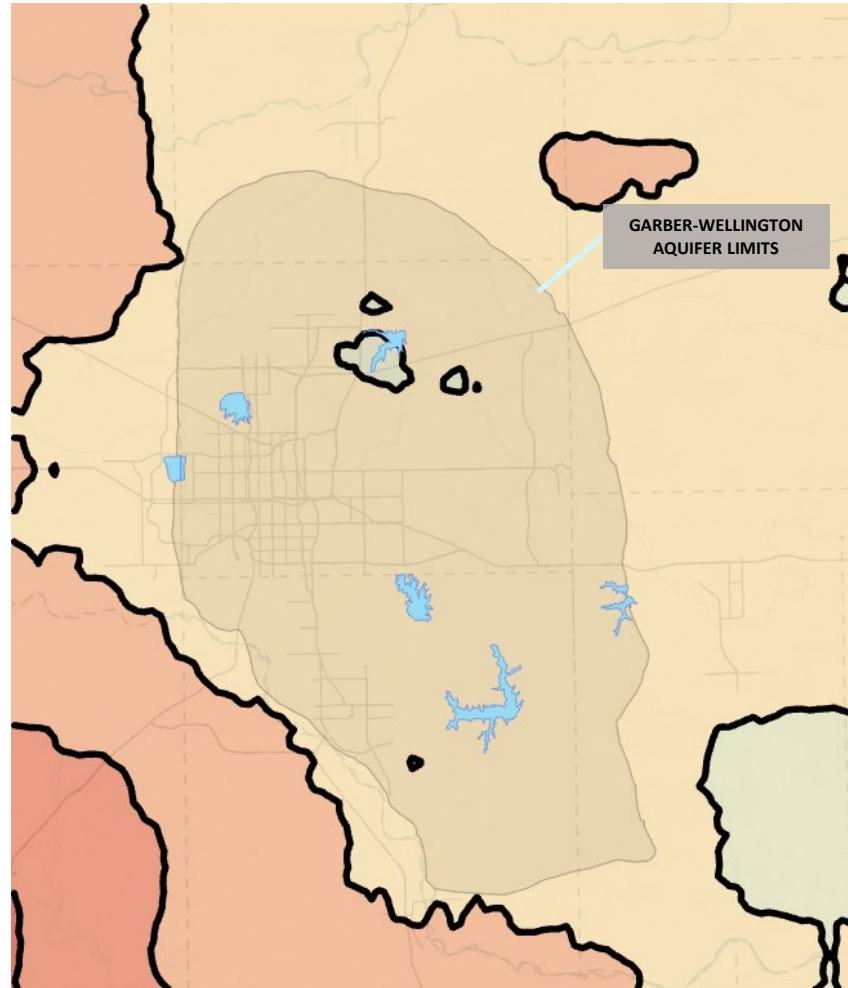


12-MONTH CUMULATIVE AQUIFER RECHARGE

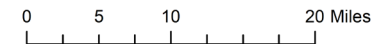
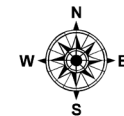
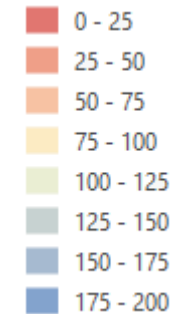


NO BIG RECHARGE:

- There was no strong rainy season like last year to get us ahead – and the cumulative recharge reflects it.
- While most of the map is still hovering around the 75-100% mark, the effects of drought are slowly creeping in.



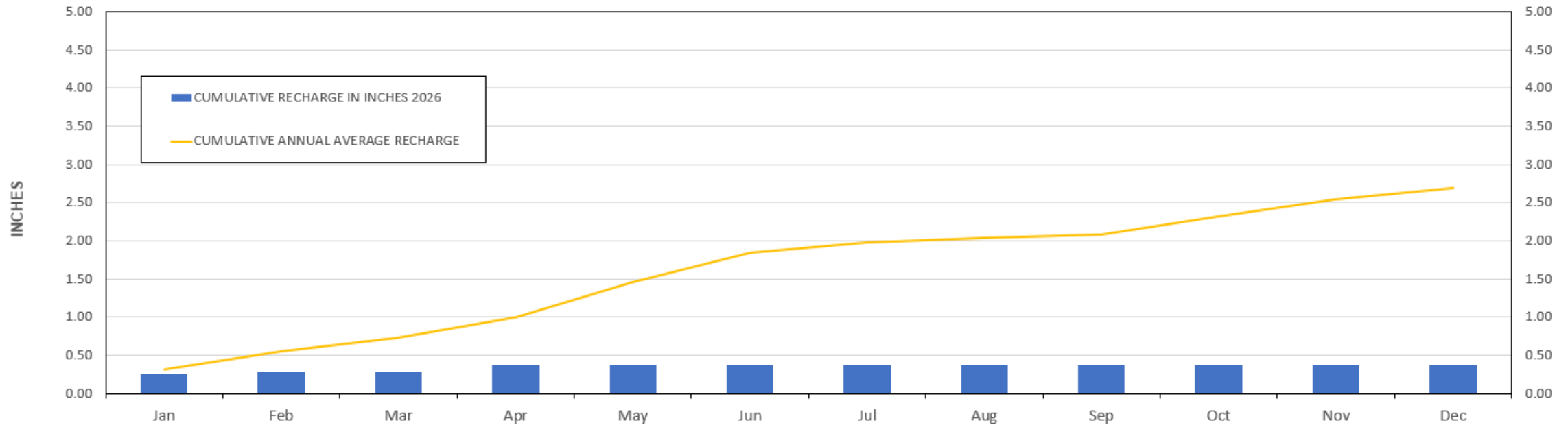
Percent of Cumulative Recharge



RECHARGE CHARTS: CENTRAL OKLAHOMA AQUIFER SYSTEM



ACCUMULATED CENTRAL OKLAHOMA AQUIFER SYSTEM RECHARGE 2026

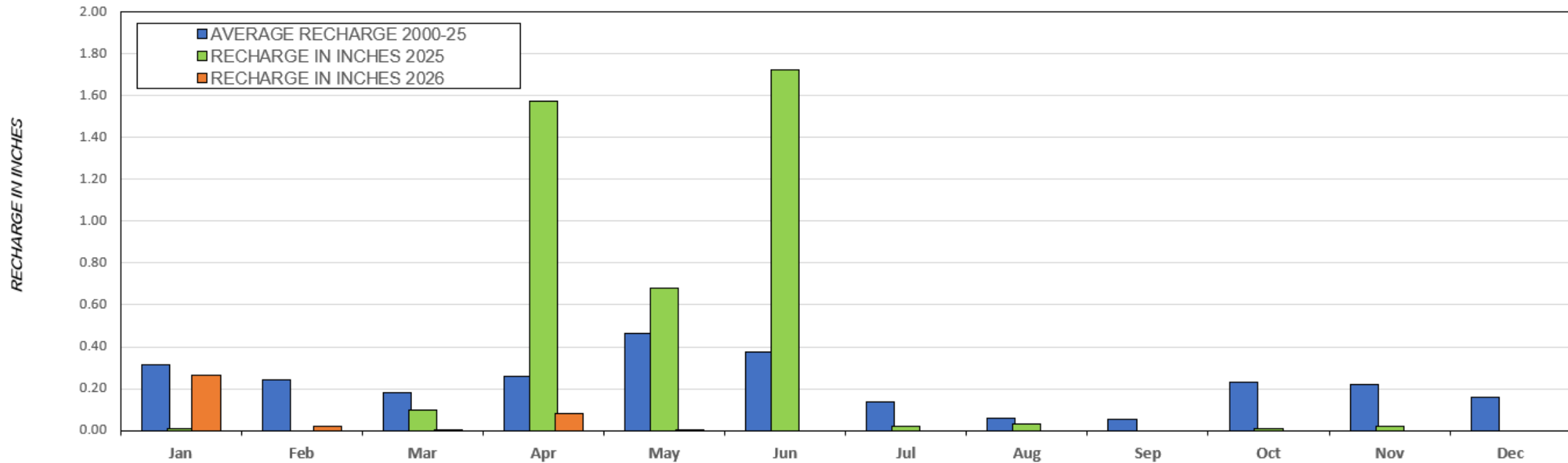


Recharge for May was effectively zero - bringing us further below the average

RECHARGE CHARTS: CENTRAL OKLAHOMA AQUIFER SYSTEM CONT.

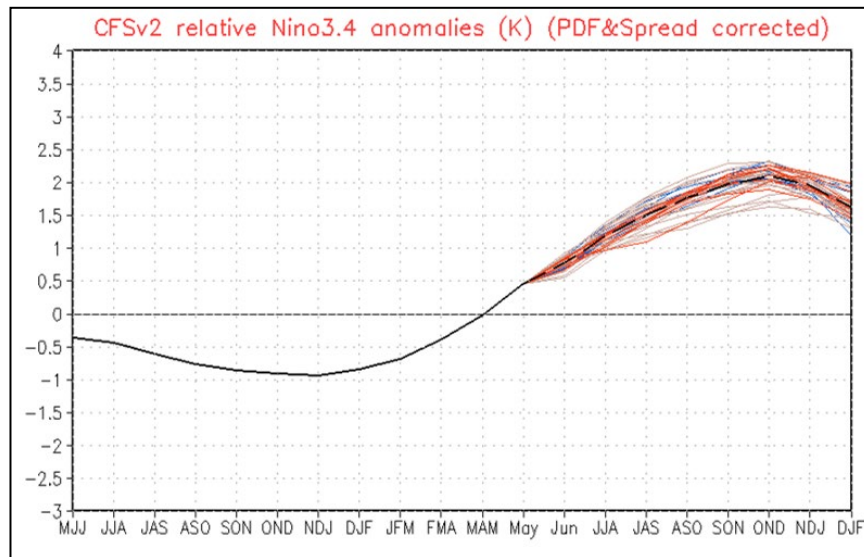


MONTHLY AQUIFER RECHARGE 2026

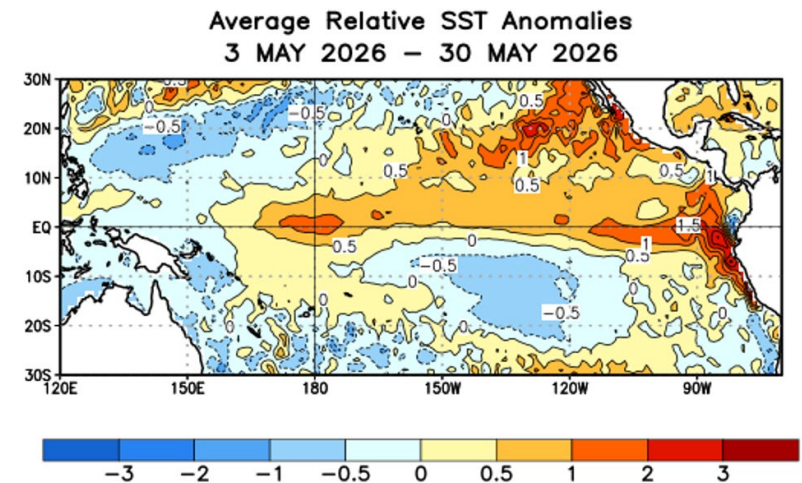


Our exceptional recharge from last year is nowhere to be found, as May barely shows on the graph

ENSO CYCLE – CURRENT PATTERNS AND PREDICTIONS



- Latest 8 forecast members
 - Earliest 8 forecast members
 - Other forecast members
- (Climatology base period: 1991–2020)
- Forecast ensemble mean
 - NCEI Olv2.1 daily analysis



CLIMATE PATTERN UPDATE (ENSO):

ENSO-neutral conditions are now established, and we can expect to see more variable weather as El Niño develops.



- A few areas saw strong storms in May, but overall, the rain wasn't as heavy or consistent as previous years.
- Without the same abnormally strong rains from 2025, drought is beginning to rear its head as we move into the summer.
- We'll keep our fingers crossed for a rainy June like last year, but 2026 is looking to be a much drier year.



THANK YOU!

Benjamin Matsumura
Water Resources Manager

O: 405.778.6121
bmatsumura@acogok.org
acogok.org

ASSOCIATION OF
CENTRAL OKLAHOMA
GOVERNMENTS