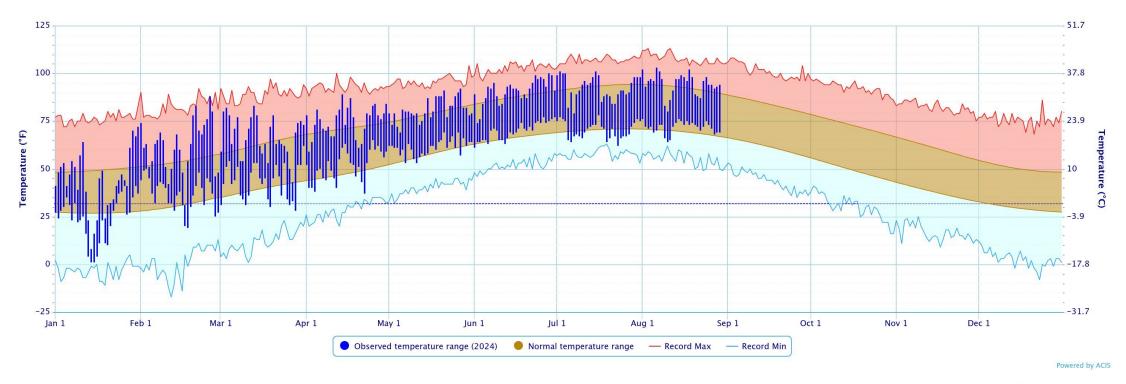


TEMPERATURE PLOT FOR OKLAHOMA CITY, OKLAHOMA FOR 2024

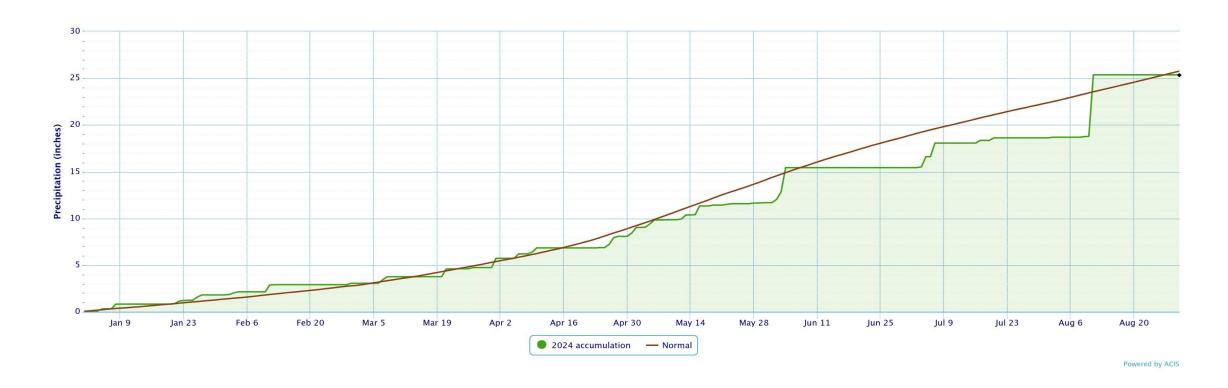






PRECIPITATION PLOT FOR OKLAHOMA CITY, OKLAHOMA FOR 2024







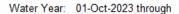
RAINFALL SUMMARIES BY OKLAHOMA CLIMATE DIVISION



Calendar Y	'ear 01-	Jan-2024	though
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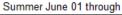
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Climate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 periods)	Driest on Record	Wettest on Record
W. Central	15.58"	-4.29"	78%	29th driest	7.15" (2011)	32.17" (2007)
Central	23.61"	-1.86"	93%	51st driest	8.65" (1936)	44.35" (2007)
S. Central	28.99"	+2.15"	108%	30th wettest	11.94" (2011)	48.47" (2015)
Statewide	23.75"	-0.89"	96%	52nd driest	10.00" (1936)	36.67" (2015)



29-Aug-2024

Climate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 periods)	Driest on Record	Wettest on Record
W. Central	22.37"	-3.04"	88%	45th driest	11.69" (2010-11)	38.32" (2006-07)
Central	31.10"	-2.48"	93%	49th wettest	15.93" (1935-36)	51.35" (2006-07)
S. Central	39.77"	+3.24"	109%	24th wettest	16.00" (1955-56)	57.29" (2014-15)
Statewide	31.78"	-0.94"	97%	50th wettest	17.81" (1935-36)	44.39" (2006-07)



29-Aug-2024

Climate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 periods)	Driest on Record	Wettest on Record
W. Central	6.74"	-2.32"	74%	33rd driest	2.58" (1980)	15.95" (1995)
Central	8.84"	-1.82"	83%	46th driest	2.15" (1936)	24.03" (2007)
S. Central	8.41"	-1.56"	84%	46th driest	1.69" (2011)	18.99" (1945)
Statewide	8.88"	-1.27"	88%	40th driest	2.93" (1936)	17.63" (2007)





The climate divisions shown include statewide totals, central Oklahoma totals, and totals for the two divisions which have Canton Lake and Lake Atoka—major water sources for central Oklahoma.

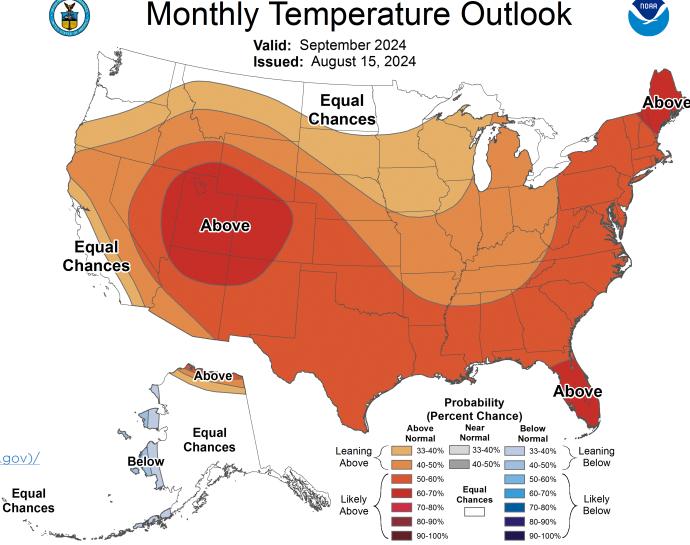
NOAA ONE-MONTH TEMPERATURE OUTLOOK



White areas are shown as EC (Equal Chance) on these maps represent areas where there are no strong climate signals from the climate tools to have skill in preferring one category over another.

That doesn't mean that there are equal chances of each of the categories occurring – it means that currently there is no skill in identifying the most likely category. In these areas, it is best to be prepared for all possibilities.

Climate Prediction Center - Updated OFFICIAL 30-Day Forecasts (noaa.gov)/



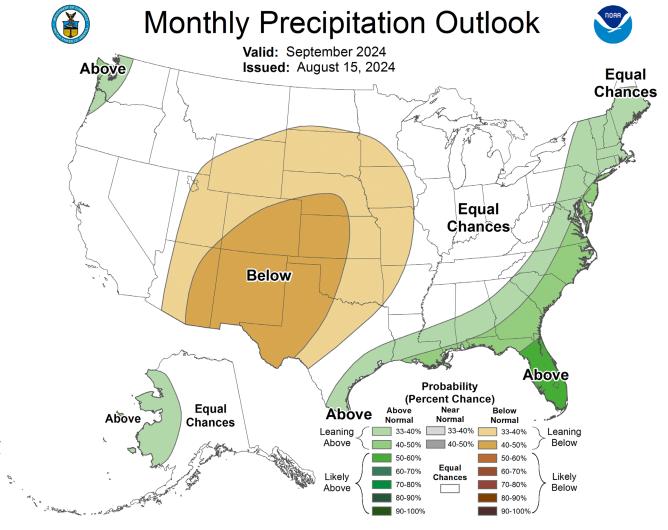
NOAA ONE-MONTH PRECIPITATION OUTLOOK



White areas are shown as EC (Equal Chance) on these maps represent areas where there are no strong climate signals from the climate tools to have skill in preferring one category over another.

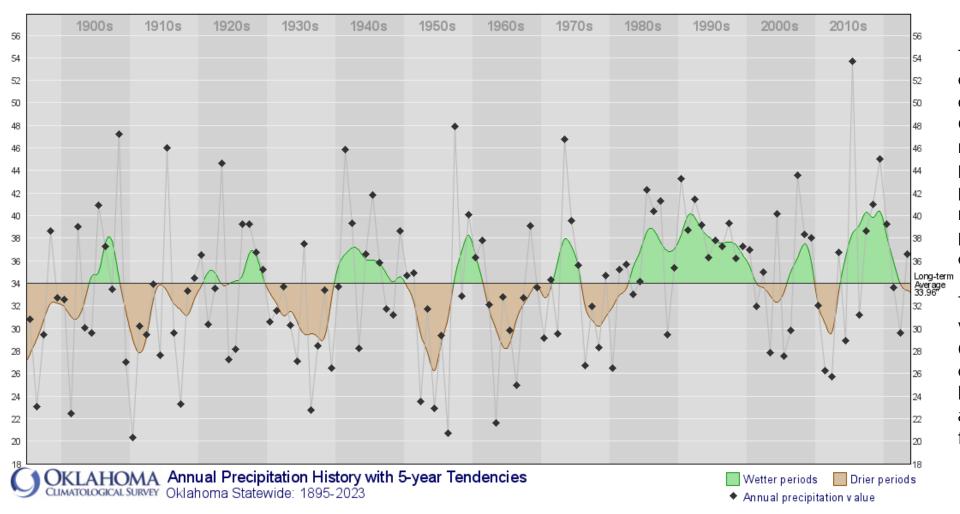
That doesn't mean that there are equal chances of each of the categories occurring – it means that currently there is no skill in identifying the most likely category. In these areas, it is best to be prepared for all possibilities.

Climate Prediction Center - Updated OFFICIAL 30-Day Forecasts (noaa.gov)/



Annual Precipitation History with 5-Year Tendencies





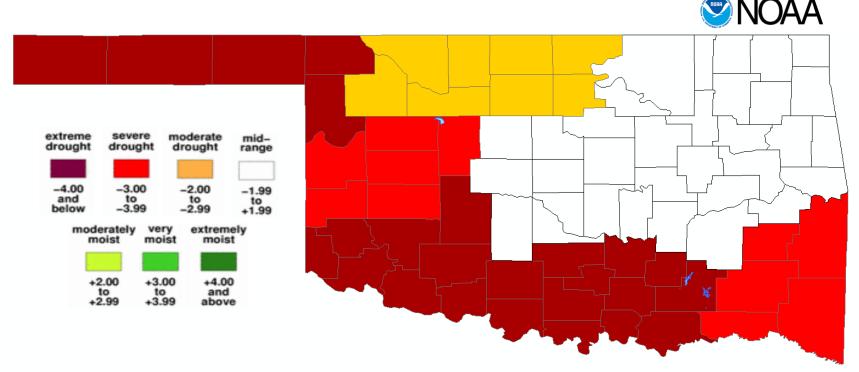
This graph shows the cyclical nature of wet and drought periods in Oklahoma. The black dots represent the annual precipitation for that particular year. The line represents the annual precipitation data smoothed over five years.

This smoothed line shows well the wet periods (shaded green) and the drought periods (shaded brown). The drought cycles appear to average about five to eight years in length.



DROUGHT SEVERITY INDEX BY CLIMATE DIVISION





The Palmer Drought Index (PDI) maps show long-term (cumulative) meteorological drought and wet conditions.

The maps show how the geographical pattern of the long-term moisture conditions has changed over the last 12 months.

On these maps, the red shading denotes drought conditions while the green shading indicates wet conditions.

PALMER VALUE

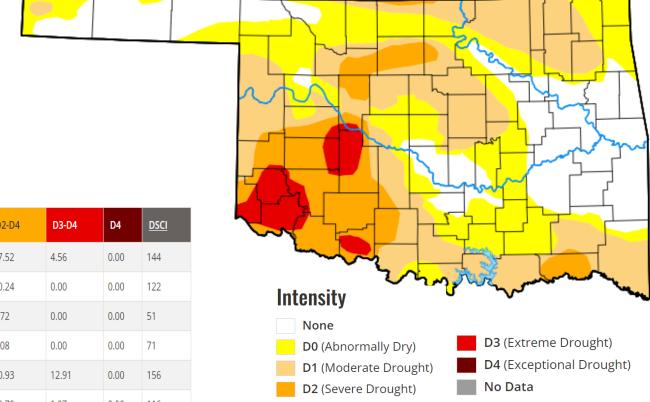
27 JUL 2024

U.S. DROUGHT MONITOR - OKLAHOMA



September 1, 2024

Abnormal dryness or drought is currently affecting approximately 1,341,295 people in Oklahoma.







U.S. DROUGHT MONITOR NATIONWIDE MAP



Intensity and Impacts

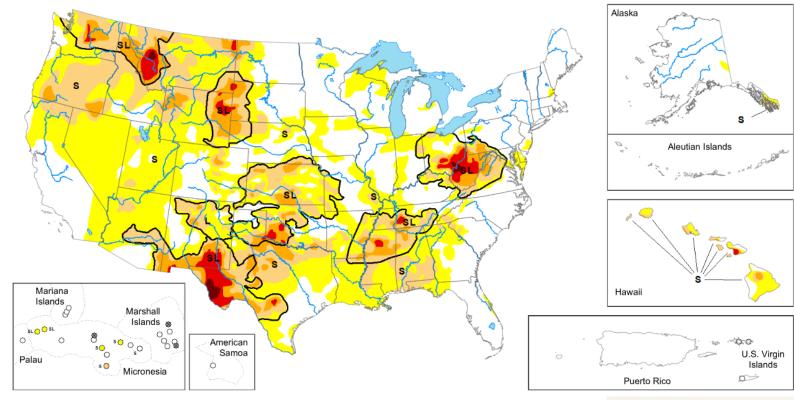


United States and Puerto Rico Author(s):

Deborah Bathke, National Drought Mitigation Center

Pacific Islands and Virgin Islands Author(s): Ahira Sanchez-Lugo, NOAA/NCEI Map released: August 29, 2024

Data valid: August 27, 2024



United States and Puerto Rico Author(s): Richard Heim, NOAA/NCEI

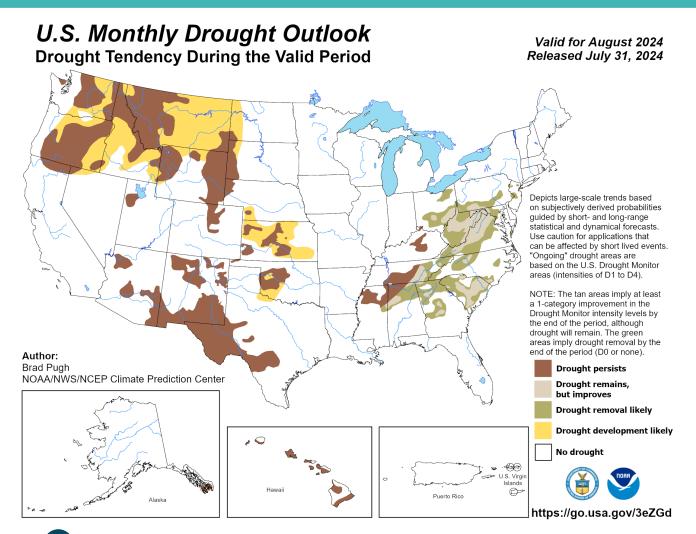
Pacific Islands and Virgin Islands Author(s):

Curtis Riganti, National Drought Mitigation Constitution



U.S. DROUGHT MONITOR MONTHLY DROUGHT OUTLOOK MAP



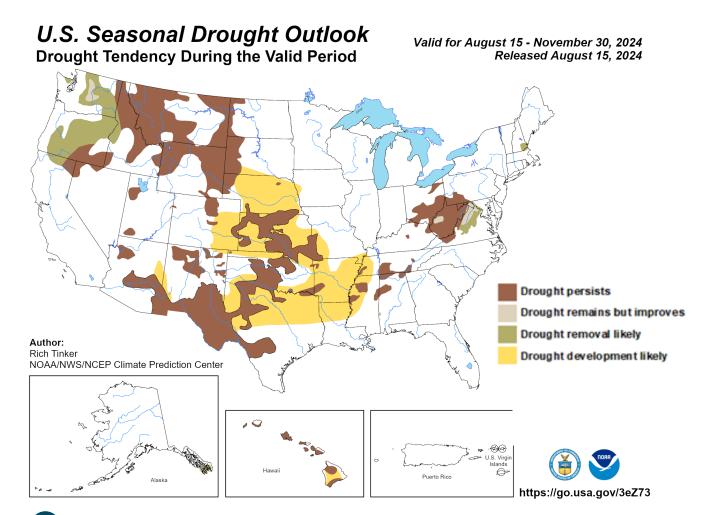


Depicts large-scale trends based on subjectively derived probabilities guided by short and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (DO or none).

U.S. DROUGHT MONITOR SEASONAL DROUGHT OUTLOOK MAP



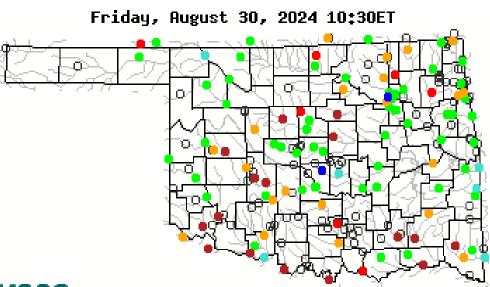


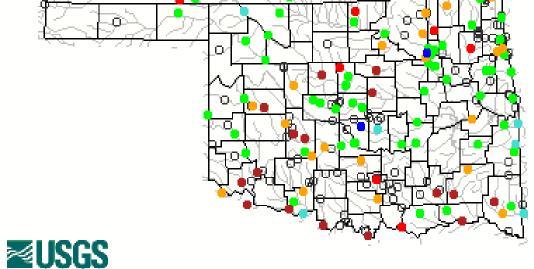
Depicts large-scale trends based on subjectively derived probabilities guided by short and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (DO or none).

USGS STREAMFLOW DATA

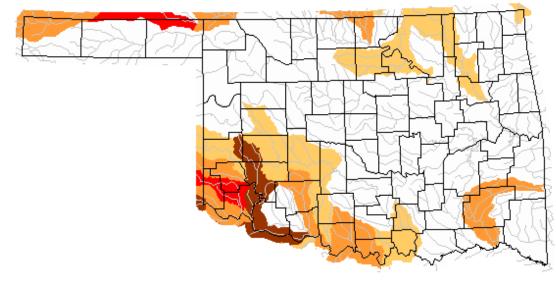






Explanation - Percentile classes							
•	•	•	•		•	•	0
Low	<10	10-24	25-75	76-90	>90		Not contract
LOW	Much below normal	Below normal	Normal	Above normal	Much above normal	High	Not-ranked

Below normal 28-day average streamflow

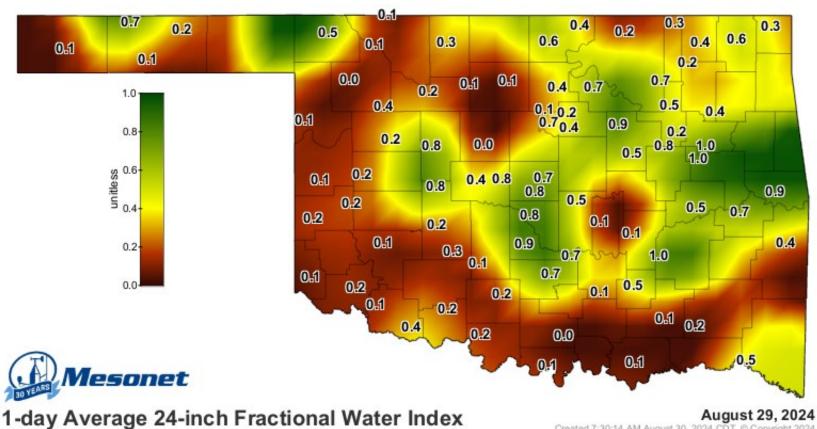




	Explanation	- Percentile clas	ses	
Low	<=5	6-9	10-24	Insufficient data
Extreme hydrologic drought	Severe hydrologic drought	Moderate hydrologic drought	Below normal	for a hydrolog is region

SOIL MOISTURE MAP





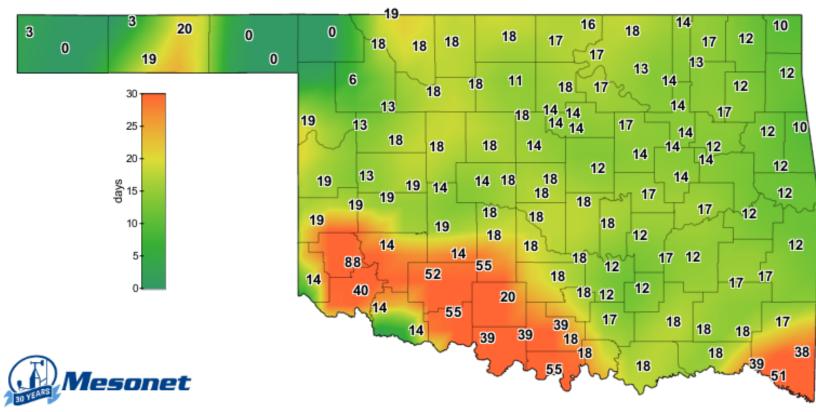


August 29, 2024

Created 7:30:14 AM August 30, 2024 CDT. © Copyright 2024

CONSECUTIVE DAYS WITHOUT RAINFALL MAP





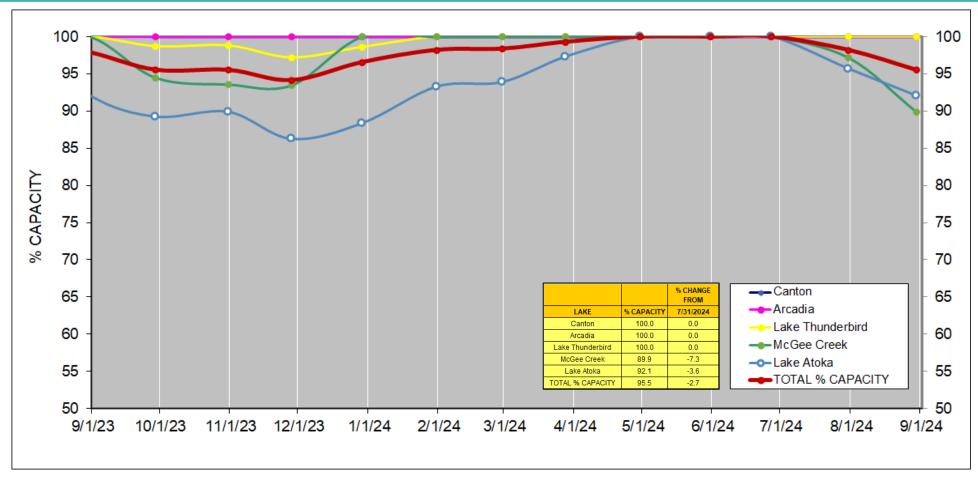
Consecutive Days With Less Than 0.25" Rainfall

August 29, 2024

Created 8:15:02 AM August 30, 2024 CDT. © Copyright 2024

PERCENTAGE OF SURFACE WATER CONSERVATION CAPACITY IN CENTRAL OK RESERVOIRS

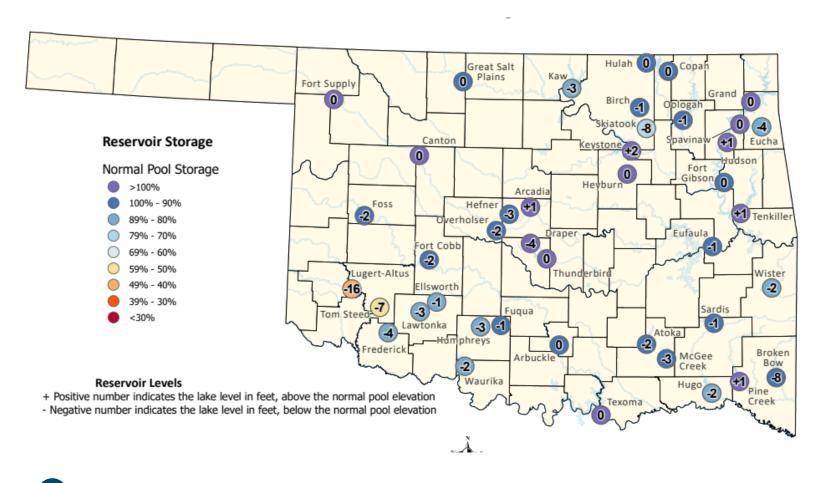




Lake Hefner and Lake Overholser are terminal storage for Canton Lake. Lake Draper is terminal storage for McGee Creek and Atoka Lakes.

OKLAHOMA RESERVOIR LEVELS AND STORAGE





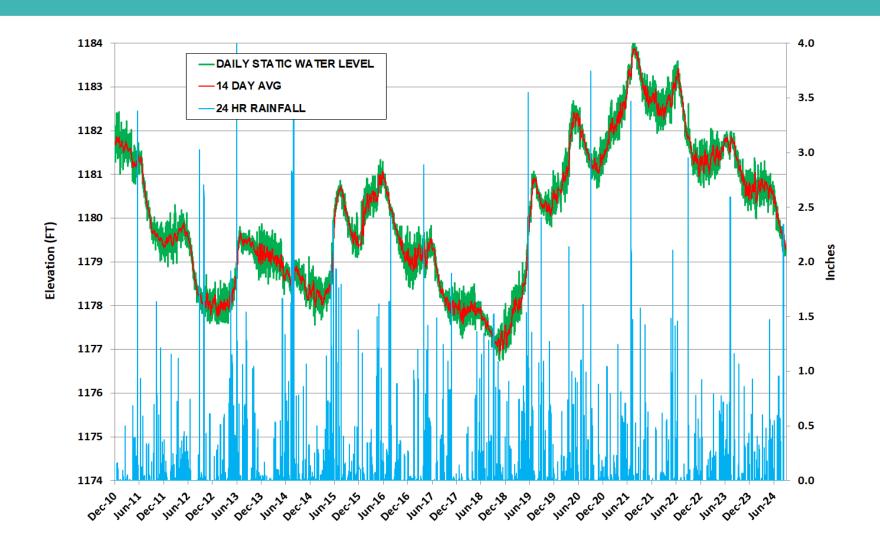
OKLAHOMA RESERVOIR LEVELS AND STORAGE AS OF 8/26/2024

This map shows reservoir storage as a percentage of normal pool storage capacity. The source information was collected from real-time lake gages monitored by the U.S. Army Corps of Engineers (https://www.swt-wc.usace.army.mil/Daily_Morning_Reservoir_Report.pdf), and the U.S. Geological Survey (USGS Current Conditions for USGS 07333010 Atoka Reservoir near Stringtown, OK). For more information, please visit the OWRB's website: (https://www.owrb.ok.gov).



GROUNDWATER LEVELS SPENCER MESONET STATION

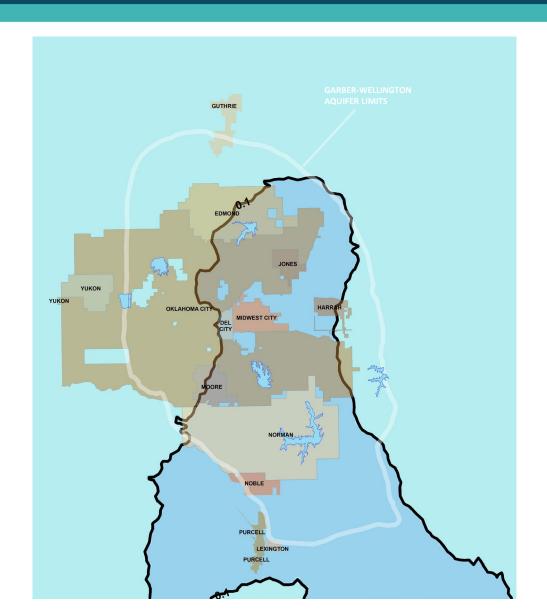


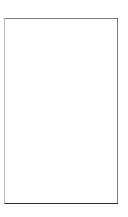


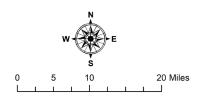
MONTHLY AQUIFER RECHARGE



- Mean aquifer recharge in August 2024 was 0.06 inches.
- Normal mean recharge for August is 0.06 inches.
- We are -0.44 inches below normal for 2024.



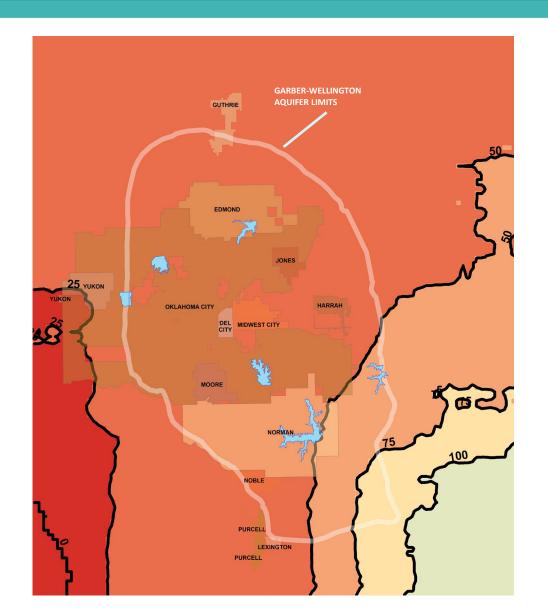




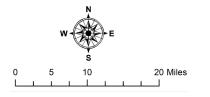
PERCENT TOTAL CUMULATIVE AQUIFER RECHARGE – Last 12 Months



- Most of the recharge in the past 12 months was south and east of the metropolitan area.
- August 2024 had 0.06 inches of recharge, the average for August.
- Over the past 12 months the metropolitan area has received less 50% of normal recharge.



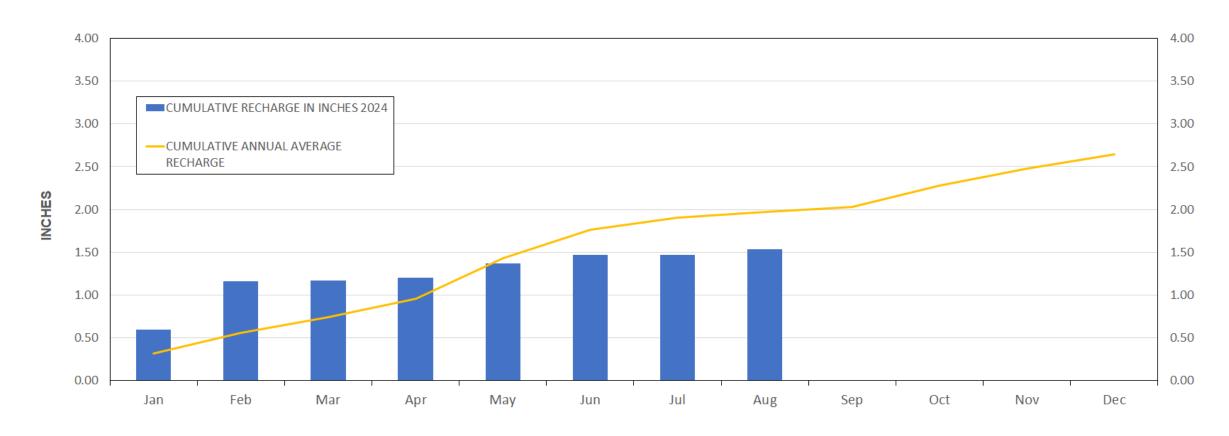




RECHARGE CHARTS CENTRAL OKLAHOMA AQUIFER SYSTEM



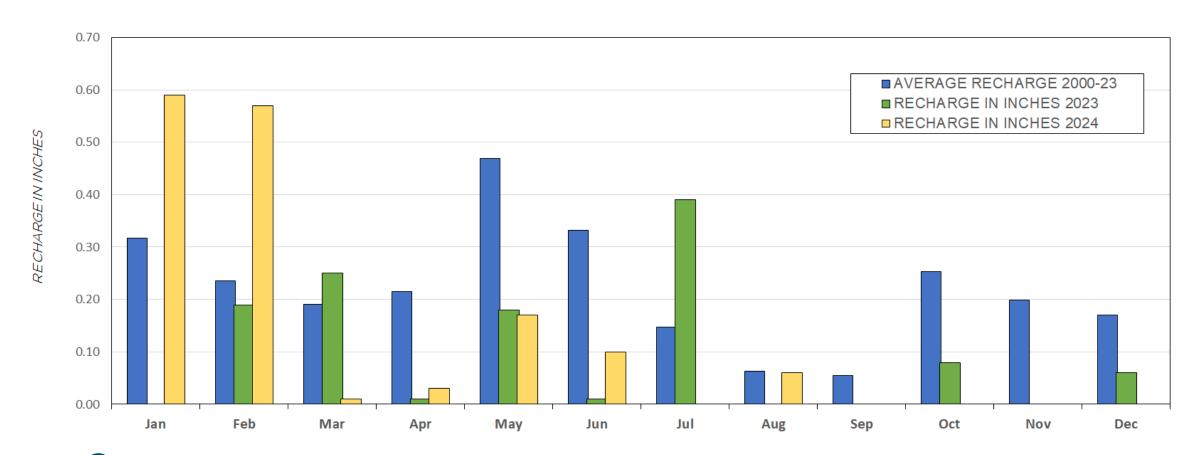
ACCUMULATED CENTRAL OKLAHOMA AQUIFER SYSTEM RECHARGE 2024



RECHARGE CHARTS CENTRAL OKLAHOMA AQUIFER SYSTEM CONTINUED

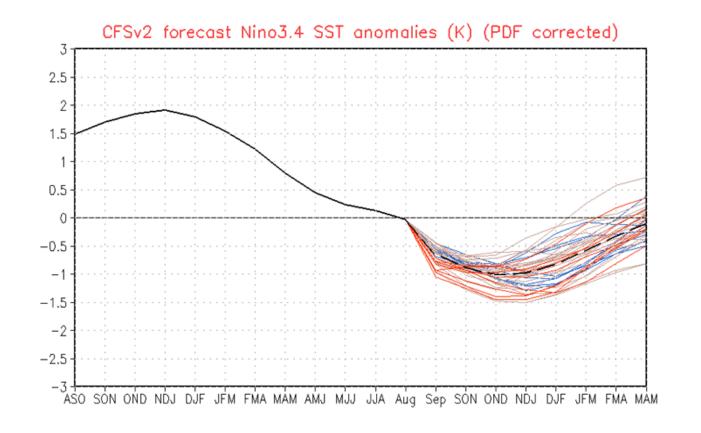


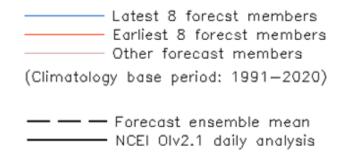
MONTHLY AQUIFER RECHARGE 2024



ENSO CYCLE - RECENT EVOLUTION, CURRENT STATUS AND PREDICTIONS



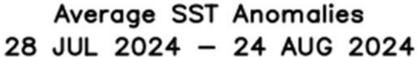


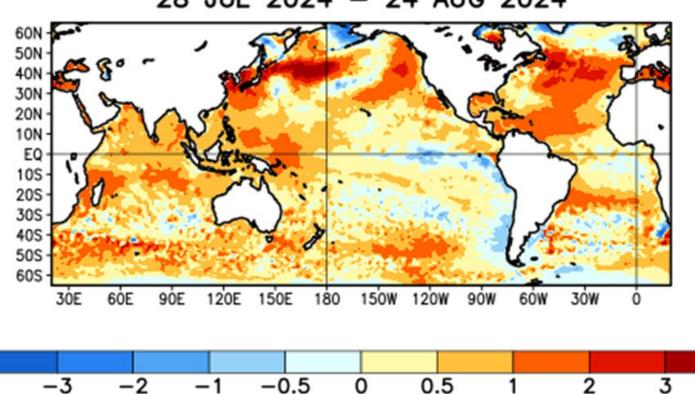




ENSO CYCLE - RECENT EVOLUTION, CURRENT STATUS AND PREDICTIONS









SUMMARY



ENSO Alert System Status: La Niña Watch

- ENSO-neutral conditions are present.
- Equatorial sea surface temperatures (SSTs) are above average in the western Pacific and near-to-below-average in the eastern Pacific Ocean.
- ENSO-neutral is expected to continue for the next several months, with La Niña favored to emerge during September-November (66% chance) and persist through the Northern Hemisphere winter 2024-25 (74% chance during November-January).



