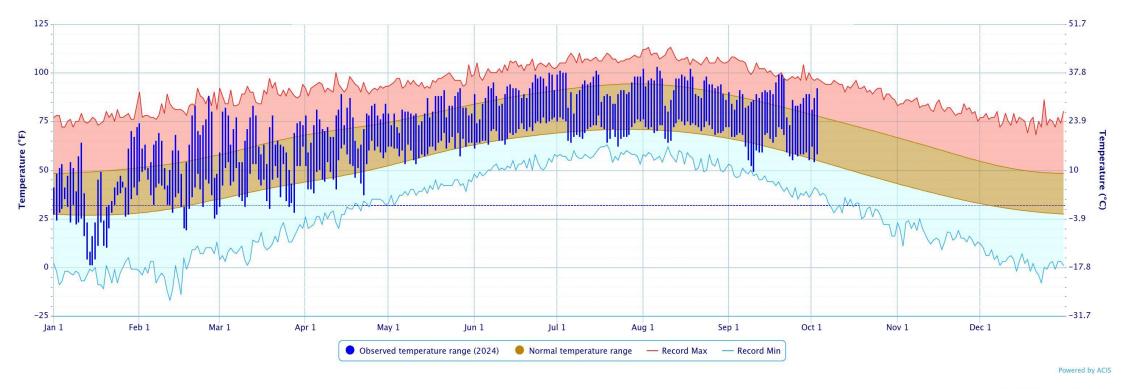


TEMPERATURE PLOT FOR OKLAHOMA CITY, OKLAHOMA FOR 2024

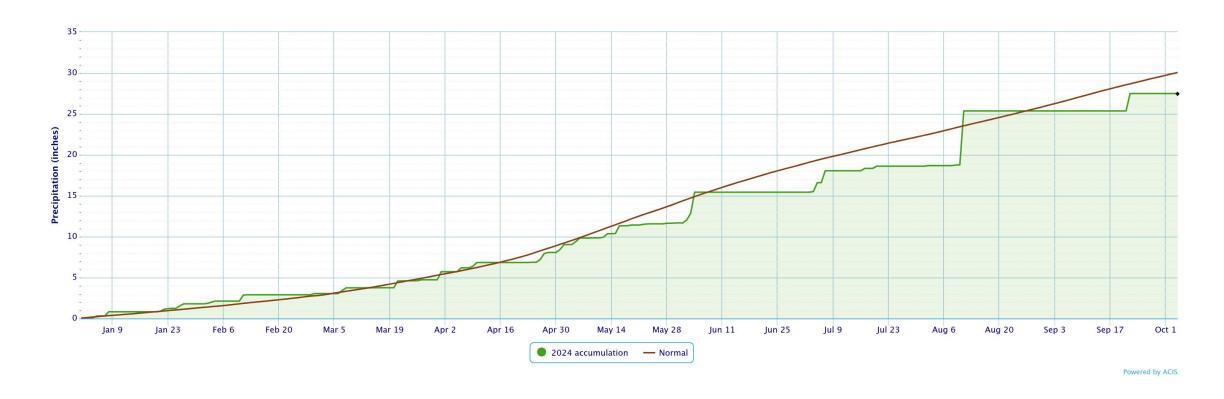






PRECIPITATION PLOT FOR OKLAHOMA CITY, OKLAHOMA FOR 2024







RAINFALL SUMMARIES BY OKLAHOMA CLIMATE DIVISION



Calendar Year 01-Jan-2024 though

03-Oct-2024

Climate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 periods)	Driest on Record	Wettest on Record
W. Central	17.59"	-5.56"	76%	21st driest	8.26" (2011)	35.85" (1995)
Central	25.42"	-4.46"	85%	29th driest	14.43" (1956)	47.71" (2007)
S. Central	30.34"	-1.04"	97%	48th wettest	13.23" (20110	52.77' (1945)
Statewide	25.58"	-3.15"	89%	33rd driest	14.91" (1956)	41.25" (1957)

Water Year: 01-Oct-2023 through

03-Oct-2024

Climate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 periods)	Driest on Record	Wettest on Record
W. Central	24.38"	-4.31"	85%	41st driest	12.80" (2010-11)	44.09" 1994-95
Central	32.91"	-5.08"	87%	38th driest	19.66" 1955-56	54.71" 2006-07
S. Central	41.11"	+0.04"	100%	36th wettest	16.35" 1955-56	63.55" 1944-45
Statewide	33.59"	-3.22"	91%	47th driest	18.35" 1955-56	48.81" 1944-45

Summer June 01 through

03-Oct-2024

Climate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 periods)	Driest on Record	Wettest on Record
W. Central	1.68"	-1.41"	55%	27th driest	0.05" 2000	13.06" 1986
Central	1.50"	-2.70"	36%	14th driest	0.28" 1939	12.50" 1986
S. Central	1.09"	-3.24"	25%	9th driest	0.24" 1956	10.83" 2018
Statewide	1.49"	-2.39"	39%	10th driest	0.28" 1956	10.39" 1986





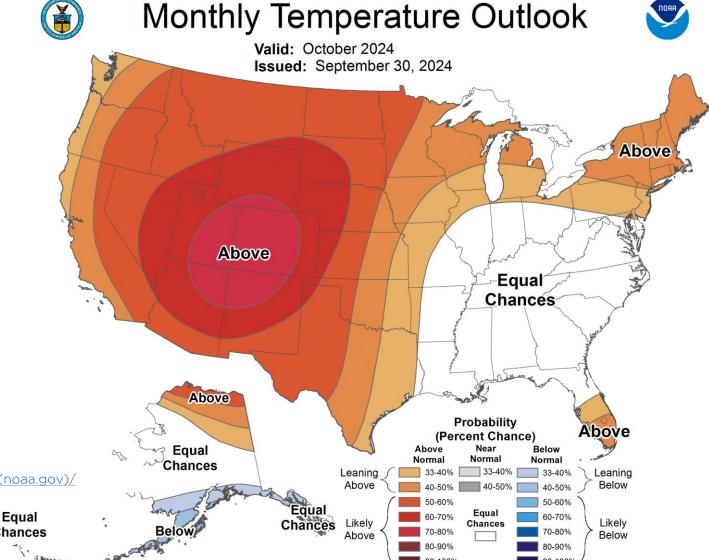
The climate divisions shown include statewide totals, central Oklahoma totals, and totals for the two divisions which have Canton Lake and Lake Atoka—major water sources for central Oklahoma.

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)/

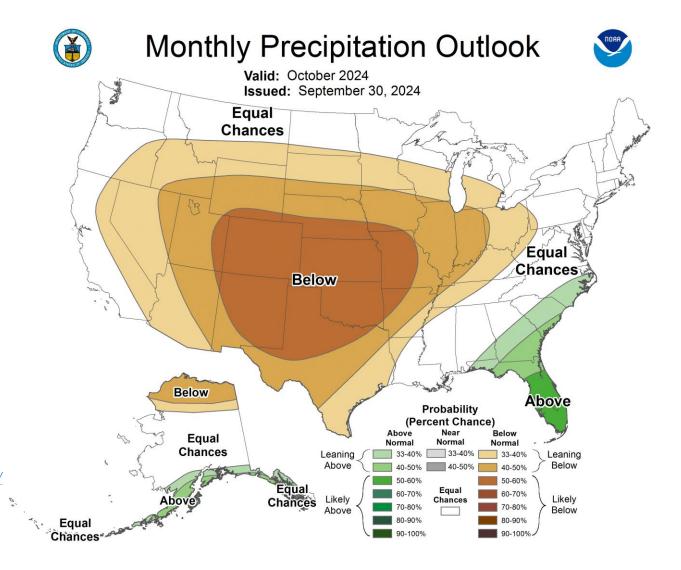
NOAA ONE-MONTH PRECIPITATION OUTLOOK



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.

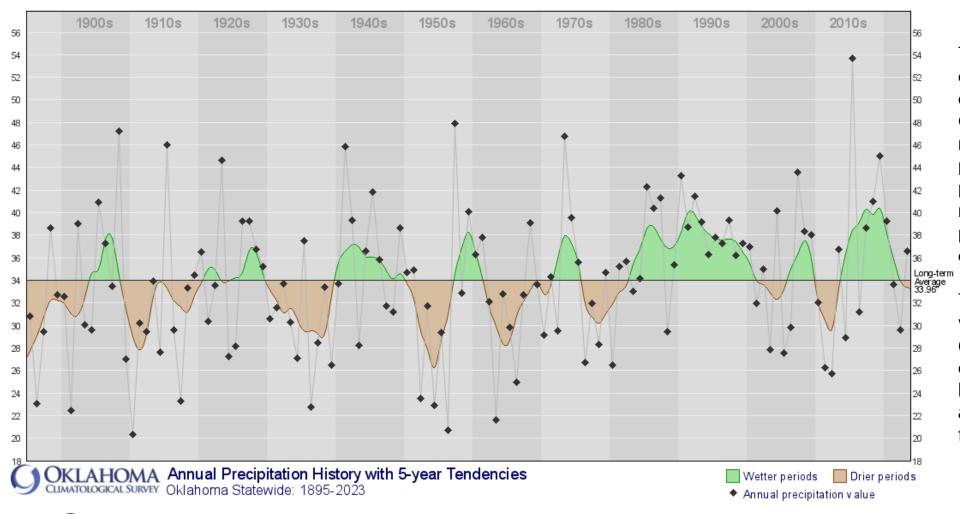
That doesn't mean that there are equal chances of each of the categories occurring – it means that currently there is no skill in identifying the most likely category. In these areas, it is best to be prepared for all possibilities.

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



Annual Precipitation History with 5-Year Tendencies





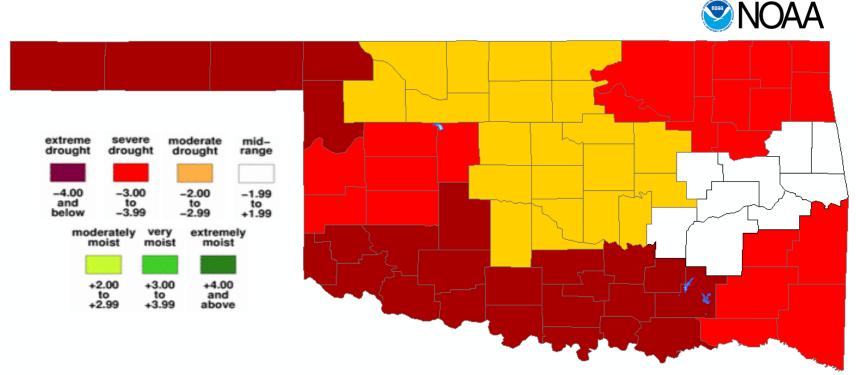
This graph shows the cyclical nature of wet and drought periods in Oklahoma. The black dots represent the annual precipitation for that particular year. The line represents the annual precipitation data smoothed over five years.

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

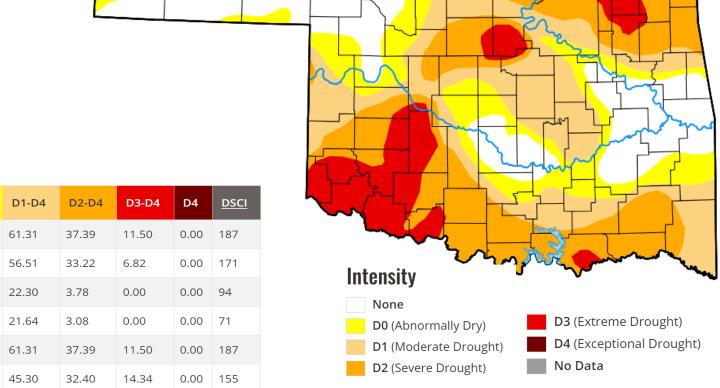
28 SEP 2024

U.S. DROUGHT MONITOR - OKLAHOMA



October 1, 2024

Abnormal dryness or drought is currently affecting approximately 1,786,201 people in Oklahoma.







U.S. DROUGHT MONITOR NATIONWIDE MAP



Intensity and Impacts

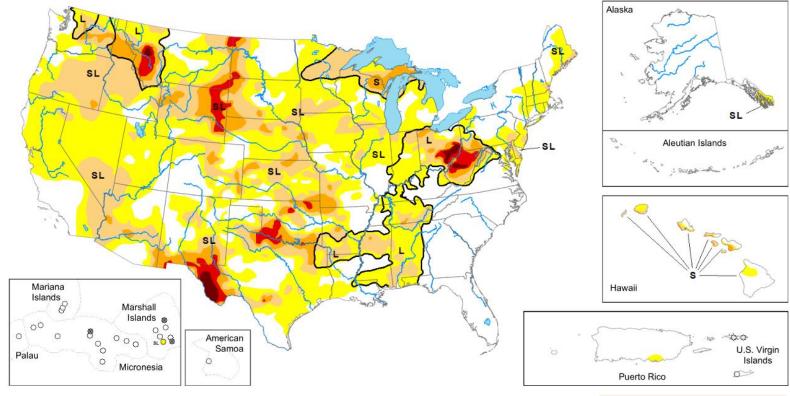


United States and Puerto Rico Author(s):

Deborah Bathke, National Drought Mitigation Center

Pacific Islands and Virgin Islands Author(s): Ahira Sanchez-Lugo, NOAA/NCEI Map released: October 3, 2024

Data valid: October 1, 2024



United States and Puerto Rico Author(s): Richard Tinker, NOAA/NWS/NCEP/CPC

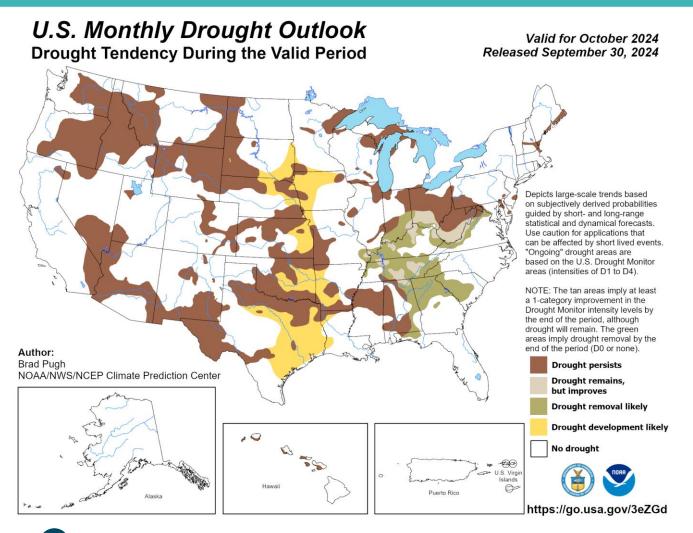
Pacific Islands and Virgin Islands Author(s):

Denise Gutzmer, National Drought Mitigatio



U.S. DROUGHT MONITOR MONTHLY DROUGHT OUTLOOK MAP



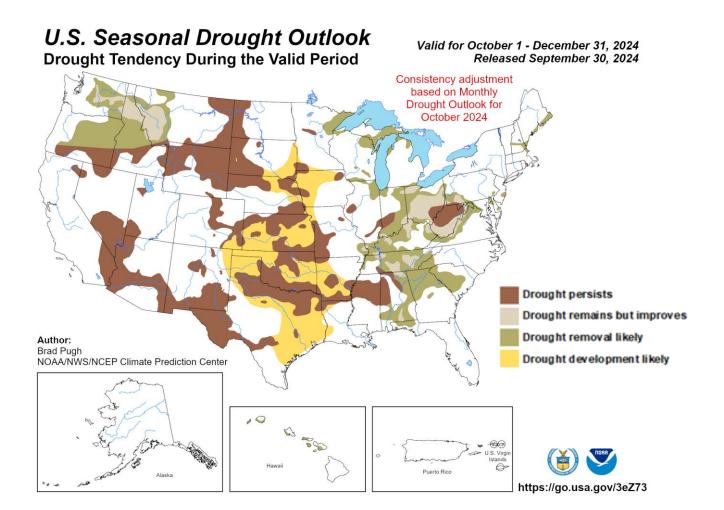


Depicts large-scale trends based on subjectively derived probabilities guided by short and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to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





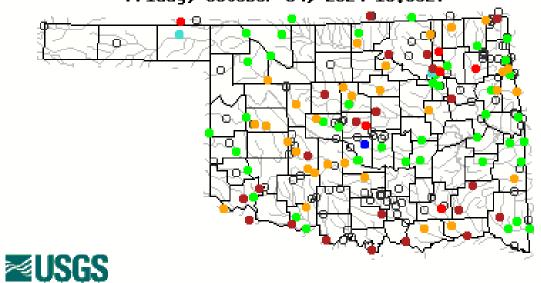
Depicts large-scale trends based on subjectively derived probabilities guided by short and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to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

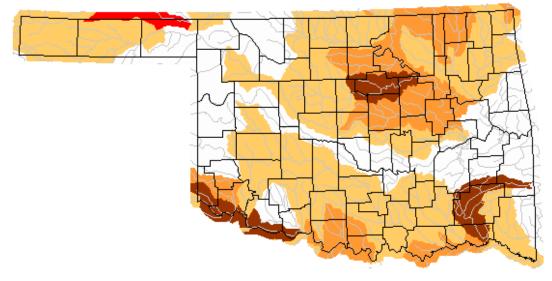
NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (DO or none).

USGS STREAMFLOW DATA



Friday, October 04, 2024 10:30ET





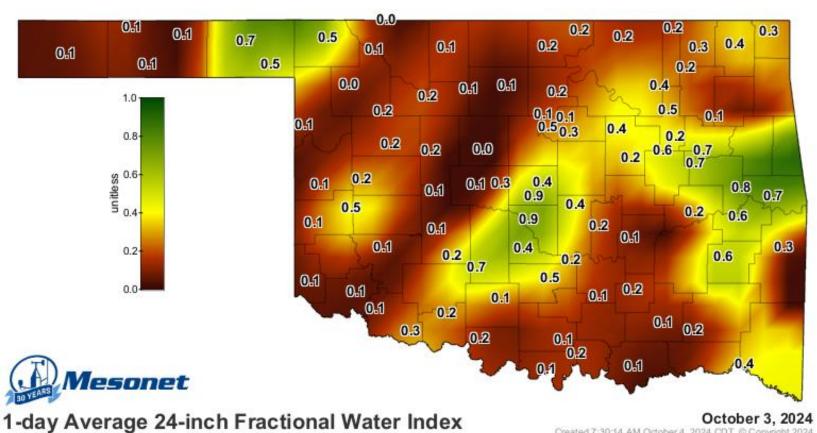


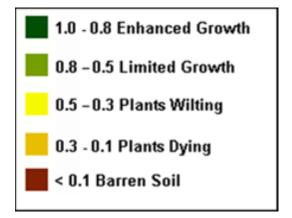
Explanation - Percentile classes							
							0
Low	<10	10-24	25-75	76-90	>90	High	Not-ranked
	Much below normal	Below normal	Normal	Above normal	Much above normal		Not-ranked

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

SOIL MOISTURE MAP



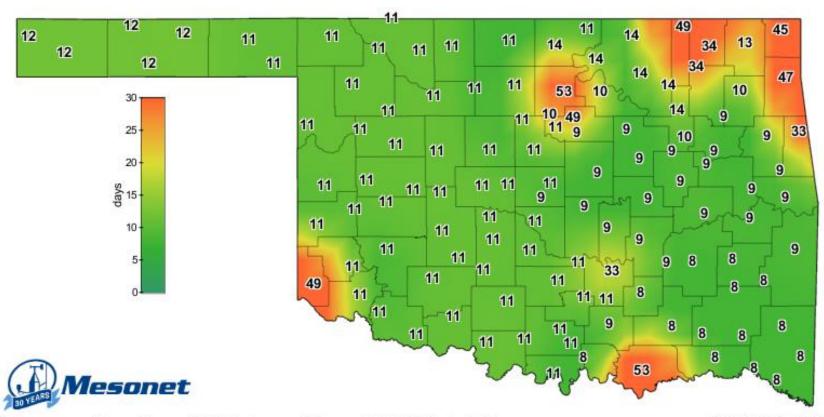




Created 7:30:14 AM October 4, 2024 CDT. @ Copyright 2024

CONSECUTIVE DAYS WITHOUT RAINFALL MAP



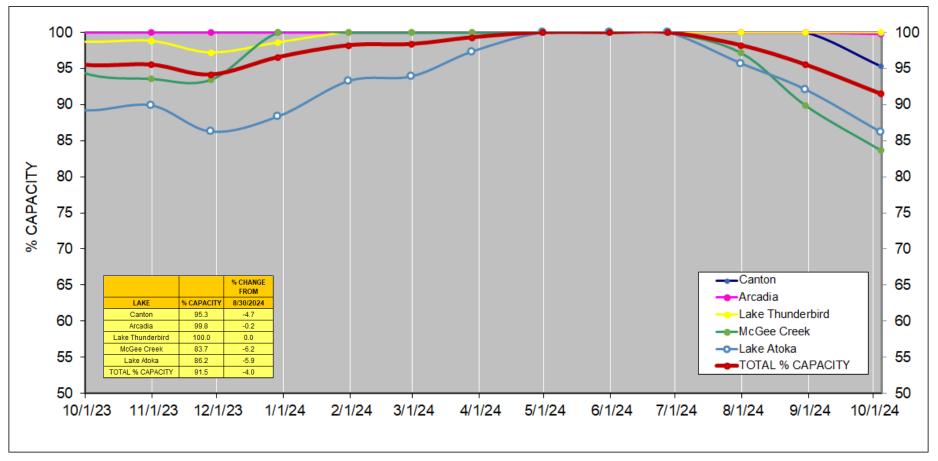


Consecutive Days With Less Than 0.25" Rainfall

October 3, 2024 Created 8:15:02 AM October 4, 2024 CDT. @ Copyright 2024

PERCENTAGE OF SURFACE WATER CONSERVATION CAPACITY IN CENTRAL OK RESERVOIRS

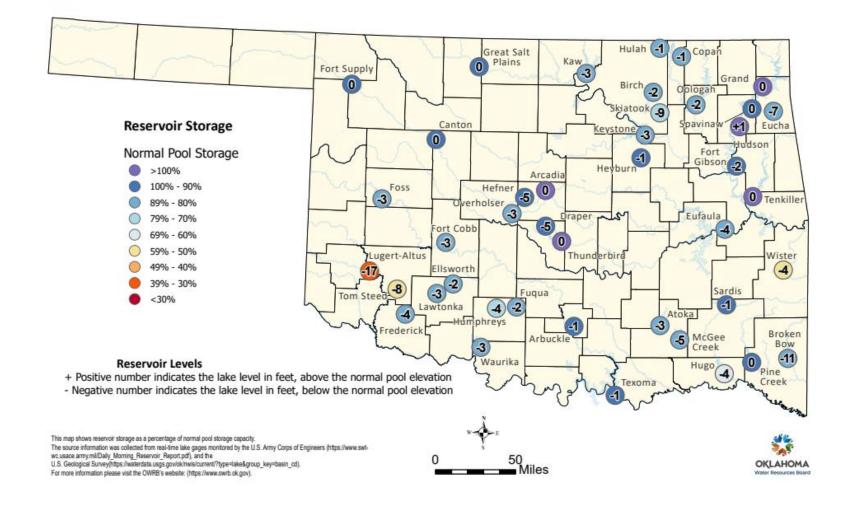




Lake Hefner and Lake Overholser are terminal storage for Canton Lake. Lake Draper is terminal storage for McGee Creek and Atoka Lakes.

OKLAHOMA RESERVOIR LEVELS AND STORAGE





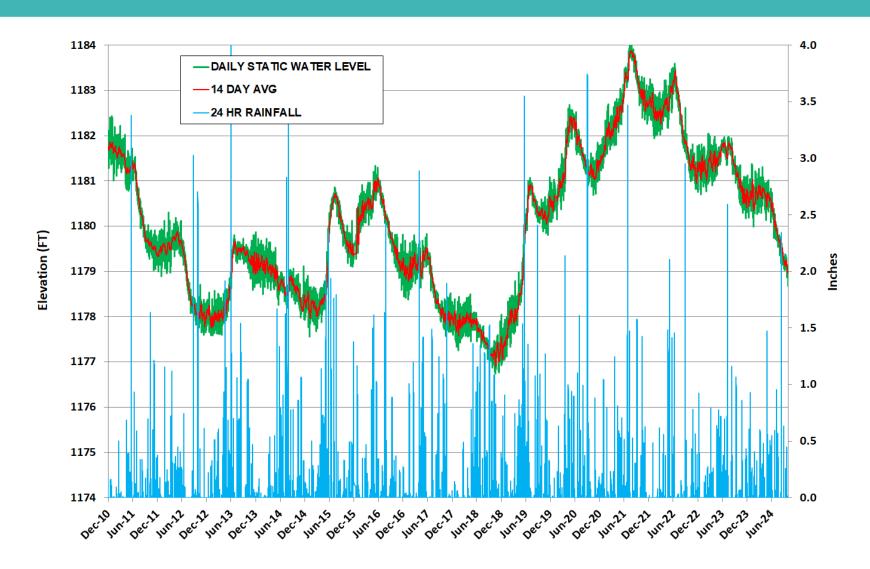
OKLAHOMA RESERVOIR LEVELS AND STORAGE AS OF 9/30/2024

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





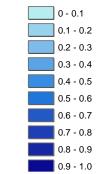
MONTHLY AQUIFER RECHARGE

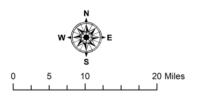


- Mean aquifer recharge in September 2024 was 0.01 inches.
- Normal mean recharge for September is 0.06 inches.
- We are -0.49 inches below normal for 2024.



Recharge in Inches

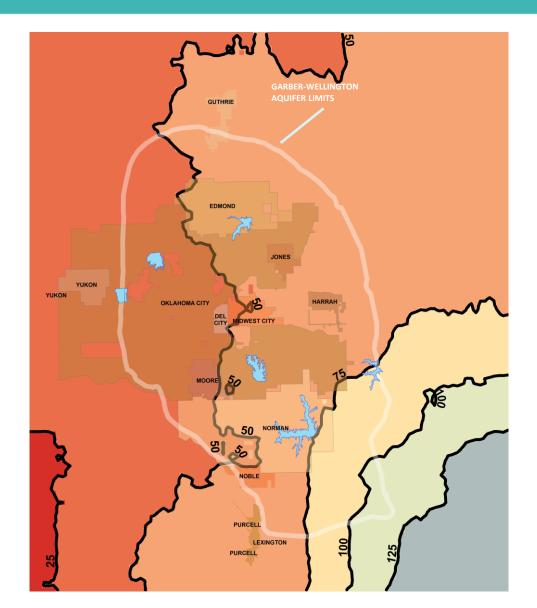




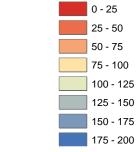
PERCENT TOTAL CUMULATIVE AQUIFER RECHARGE – Last 12 Months

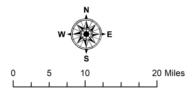


- Most of the recharge in the past 12 months was south and east of the metropolitan area.
- September 2024 had 0.01 inches of recharge. Average September recharge is 0.06 inches.
- Over the past 12 months the metropolitan area has received about 50% of normal recharge.





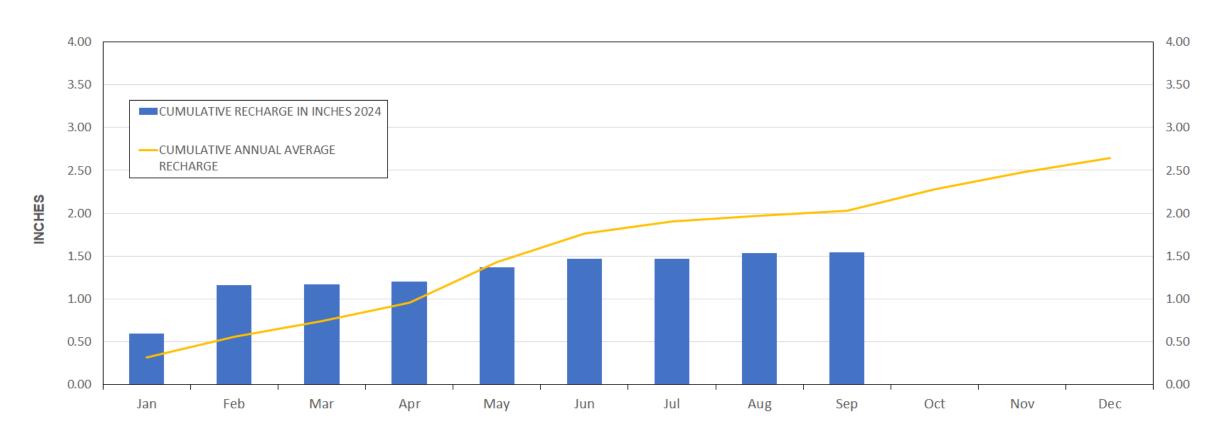




RECHARGE CHARTS CENTRAL OKLAHOMA AQUIFER SYSTEM



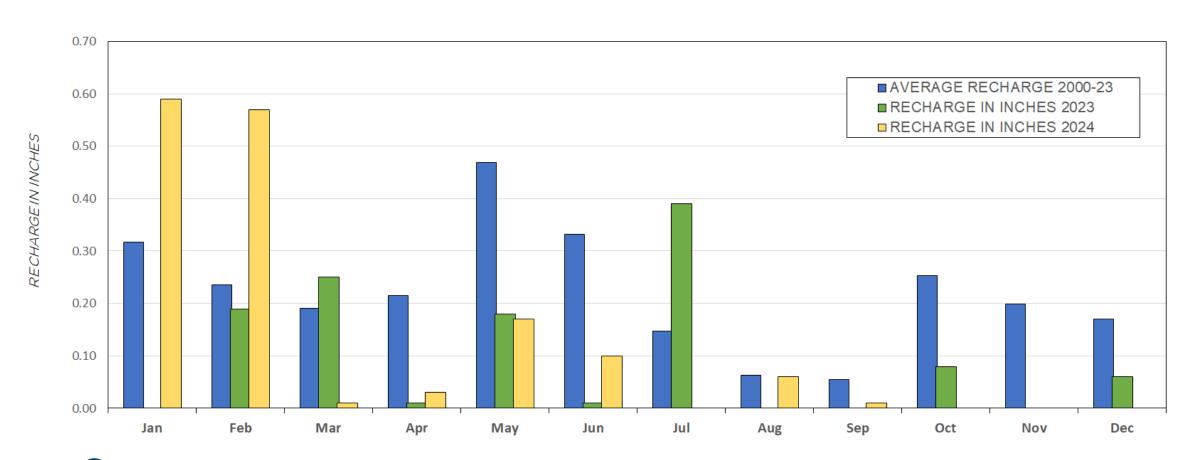
ACCUMULATED CENTRAL OKLAHOMA AQUIFER SYSTEM RECHARGE 2024



RECHARGE CHARTS CENTRAL OKLAHOMA AQUIFER SYSTEM continued

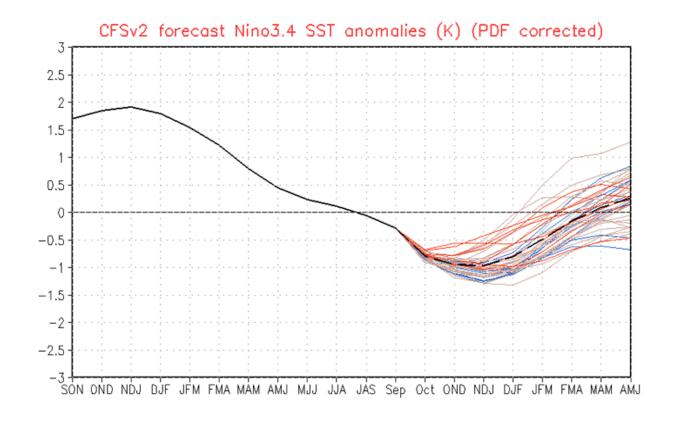


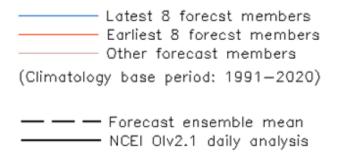
MONTHLY AQUIFER RECHARGE 2024



ENSO CYCLE - RECENT EVOLUTION, CURRENT STATUS AND PREDICTIONS



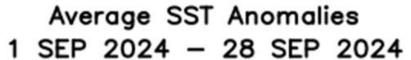


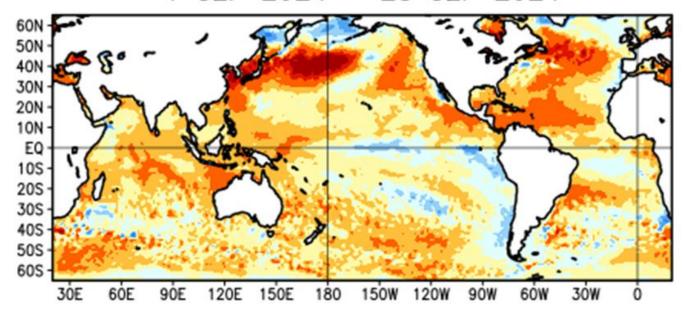




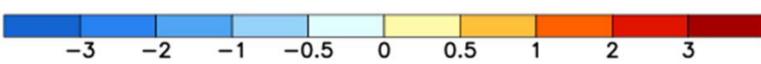
ENSO CYCLE - RECENT EVOLUTION, CURRENT STATUS AND PREDICTIONS











SUMMARY



ENSO Alert System Status: La Niña Watch

- ENSO-neutral conditions are present.
- Equatorial sea surface temperatures (SSTs) are near-to-below-average in the central and eastern Pacific Ocean.
- La Niña is favored to emerge in September-November (71% chance) and is expected to persist through January-March 2025.



