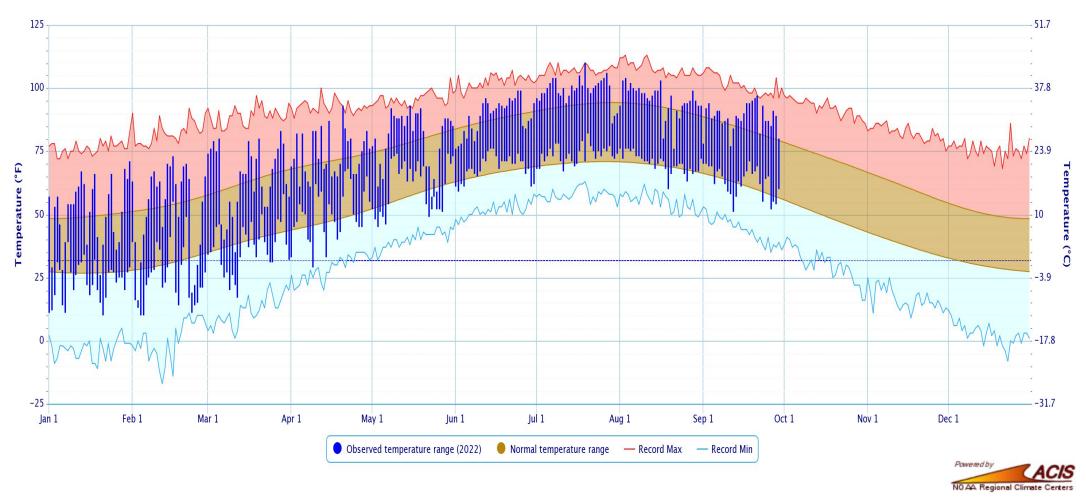


TEMPERATURE PLOT FOR OKLAHOMA CITY, OKLAHOMA FOR 2022



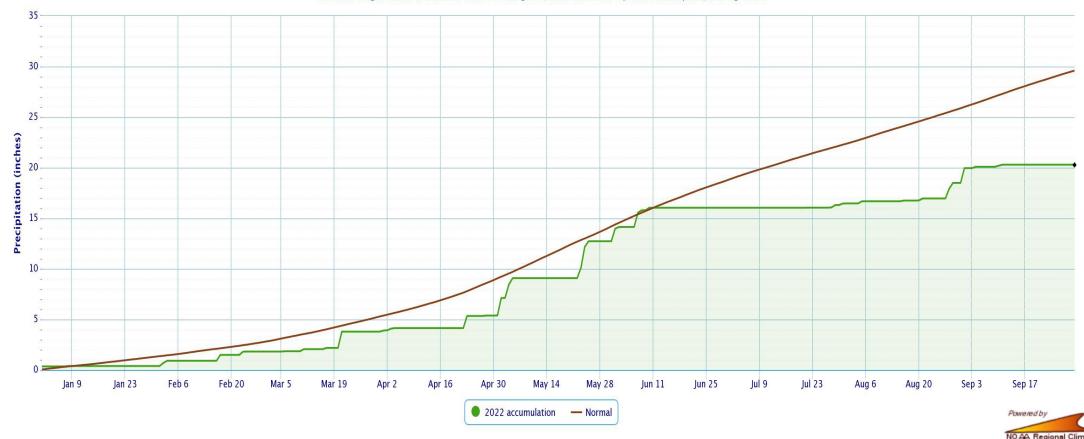


PRECIPITATION PLOT FOR OKLAHOMA CITY, OKLAHOMA FOR 2022



Accumulated Precipitation - Oklahoma City Area, OK (ThreadEx)

Click and drag to zoom to a shorter time interval; green/black diamonds represent subsequent/missing values



RAINFALL SUMMARIES BY OKLAHOMA CLIMATE DIVISION



Calendar Year	01-Jan-2021 though	29-Sep-2022
---------------	--------------------	-------------

Climate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 periods)	Driest on Record	Wettest on Record
W. Central	16.56"	-6.21"	73%	15th driest	8.26" (2011)	35.74" (1997)
Central	24.38"	-5.02"	83%	25th driest	14.36" (1956)	47.39" (2007)
S. Central	21.41"	-9.50"	69%	13th driest	13.23" (2011)	51.03" (1945)
Statewide	21.94"	-6.34"	78%	14th driest	14.87" (1956)	41.25" (1957)

Water Year: 01-Oct-2021 through 29-Sep-2022

Climate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 periods)	Driest on Record	Wettest on Record
W. Central	18.89"	-9.42"	67%	8th driest	12.80" (2010-11)	43.13" (1994-95)
Central	29.89"	-7.62"	80%	27th driest	19.58" (1955-56)	54.39" (2006-07)
S. Central	26.61"	-13.99"	66%	9th driest	16.05" (1955-56)	61.82" (1944-45)
Statewide	27.49"	-8.87"	76%	12th driest	18.18" (1955-56)	48.69" (1972-73)

Autumn Sep 01 through 29-Sep-2022

Climate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 periods)	Driest on Record	Wettest on Record
W. Central	0.68"	-2.03"	25%	11th driest	0.05" (2000)	7.94" (1923)
Central	0.88"	-2.84"	24%	8th driest	0.21" (1956)	9.45" (1923)
S. Central	0.59"	-3.27"	15%	7th driest	0.15" (1956)	10.81" (2018)
Statewide	0.70"	-2.73"	21%	6th driest	0.25" (1956)	7.64" (1936)





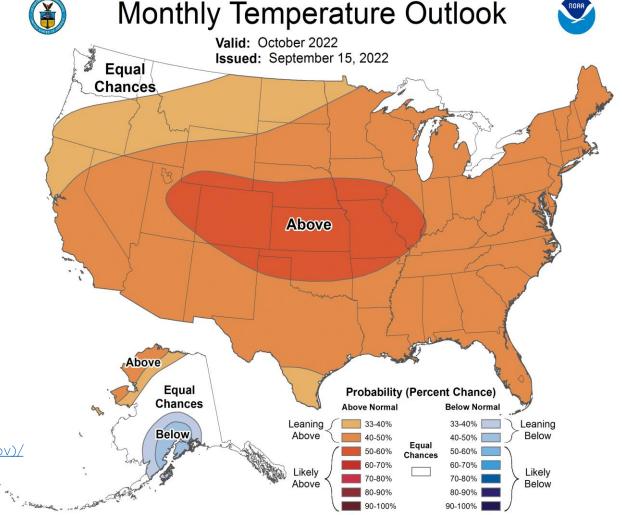
The climate divisions shown include statewide totals, central Oklahoma totals, and totals for the two divisions which have Canton Lake and Lake Atoka—major water sources for central Oklahoma.

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.



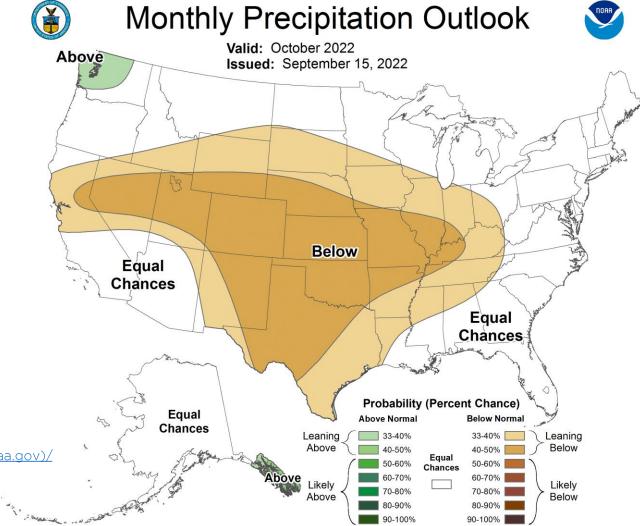
Climate Prediction Center - Updated OFFICIAL 30-Day Forecasts (noaa.gov)/

NOAA ONE-MONTH PRECIPITATION OUTLOOK



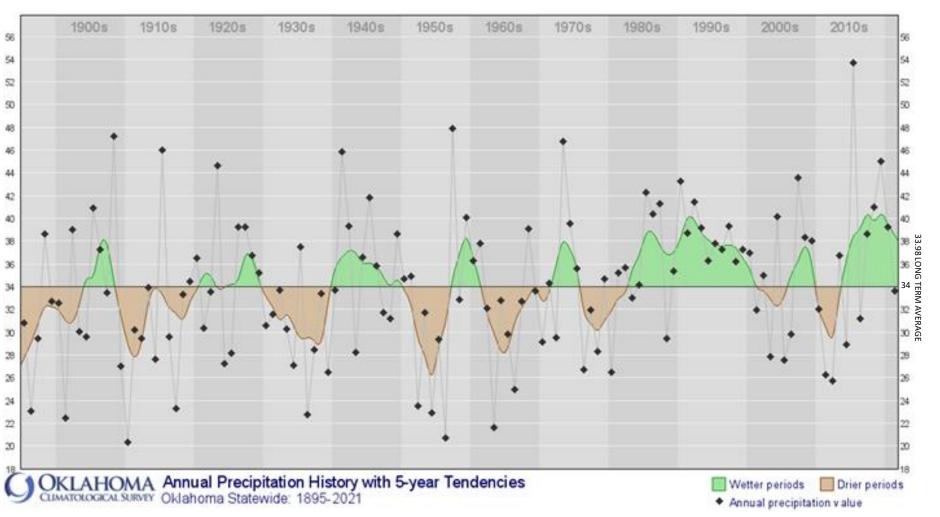
White areas are shown as EC (Equal Chance) on these maps represent areas where there are no strong climate signals from the climate tools to have skill in preferring one category over another.

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.



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.

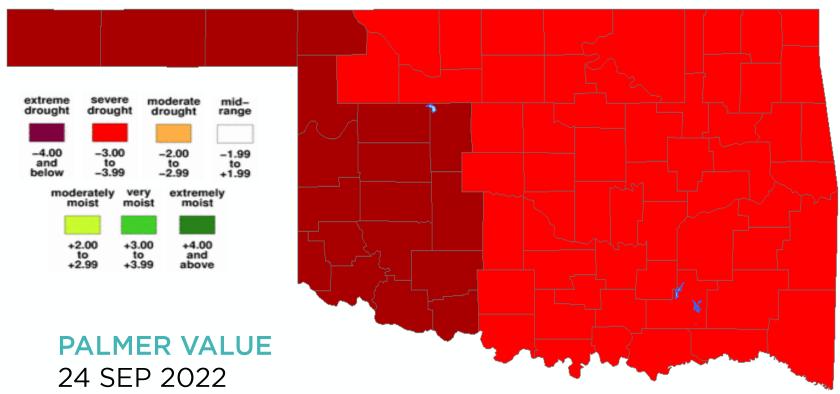
This smoothed line shows well the wet periods (shaded green) and the drought periods (shaded brown). The drought cycles appear to average about five to eight years in length.



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.

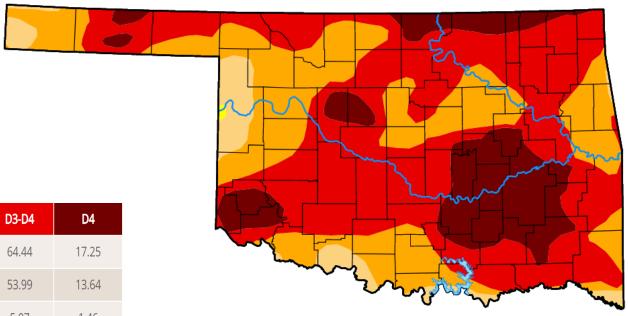
On these maps, the red shading denotes drought conditions while the green shading indicates wet conditions.

U.S. DROUGHT MONITOR - OKLAHOMA



Abnormal dryness or drought are currently affecting approximately 3,750,846 people in Oklahoma.

Week	Date	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	2022-09-27	0.00	100.00	99.88	94.44	64.44	17.25
Last Week	2022-09-20	0.03	99.97	98.91	89.25	53.99	13.64
3 Months Ago	2022-06-28	54.09	45.91	30.76	14.79	5.07	1.46
Start of Calendar Year	2021-12-28	4.92	95.08	90.17	72.51	22.62	0.00
Start of Water Year	2021-09-28	6.45	93.55	73.23	23.72	2.65	0.00
One Year Ago	2021-09-28	6.45	93.55	73.23	23.72	2.65	0.00



Intensity:

D0 - Abnormally Dry
D1 - Moderate Drought
D2 - Severe Drought

D3 - Extreme Drought
D4 - Exceptional Drought



U.S. DROUGHT MONITOR NATIONWIDE MAP





Data valid: September 27, 2022

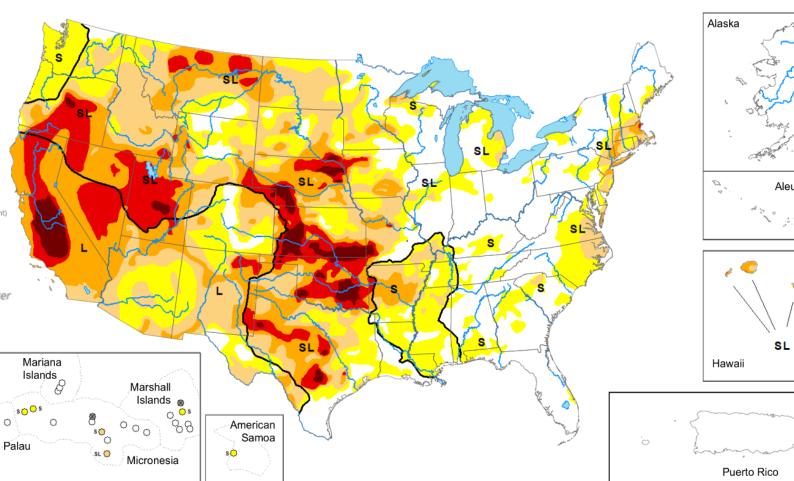
Intensity and Impacts

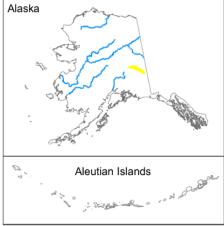
None D0 (Abnormally Dry) D1 (Moderate Drought) D2 (Severe Drought)

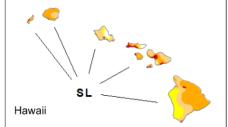
D3 (Extreme Drought) D4 (Exceptional Drought)

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





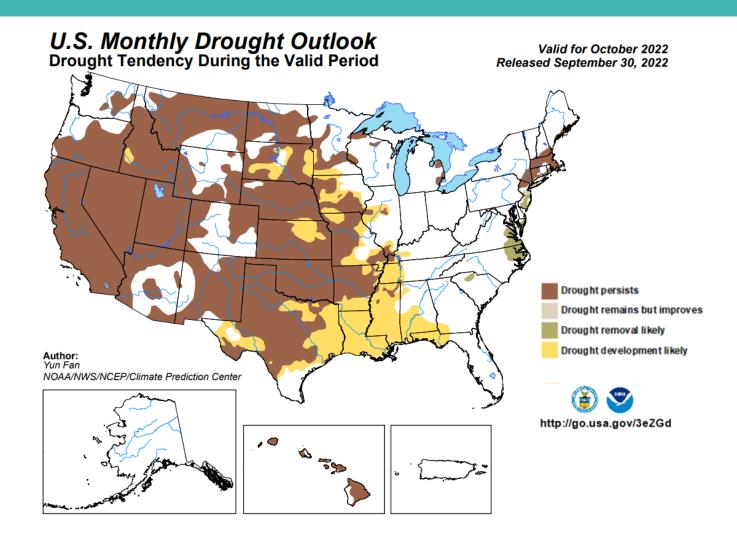






U.S. DROUGHT MONITOR MONTHLY DROUGHT OUTLOOK MAP



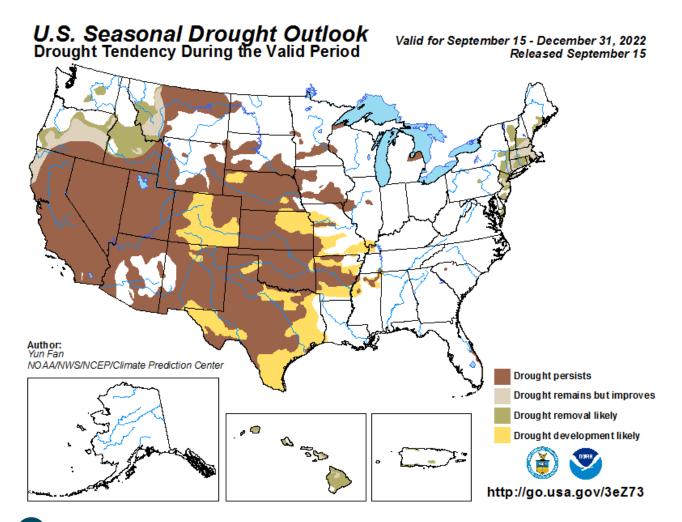


Depicts large-scale trends based on subjectively derived probabilities guided by short and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to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



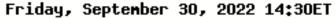


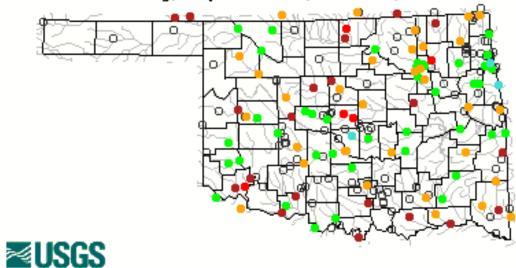
Depicts large-scale trends based on subjectively derived probabilities guided by short and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to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

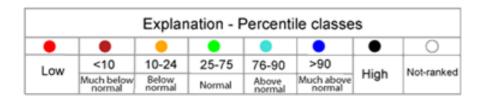
NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (DO or none).

USGS STREAMFLOW DATA



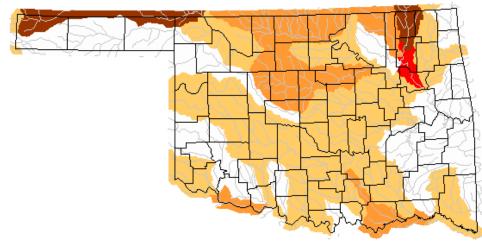






Below normal 28-day average streamflow



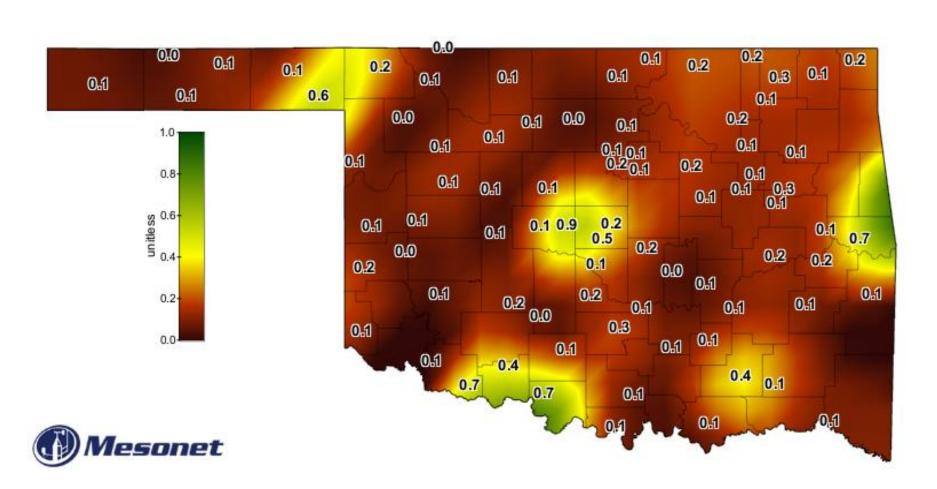




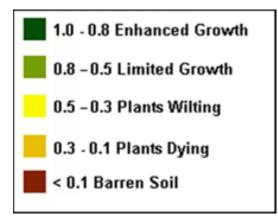
Explanation - Percentile classes							
Low	<=5	6-9	10-24	Insufficient data			
Extreme hydrologic drought	Severe hydrologic drought	Moderate hydrologic drought	Below normal	for a hydrolog is region			

SOIL MOISTURE MAP



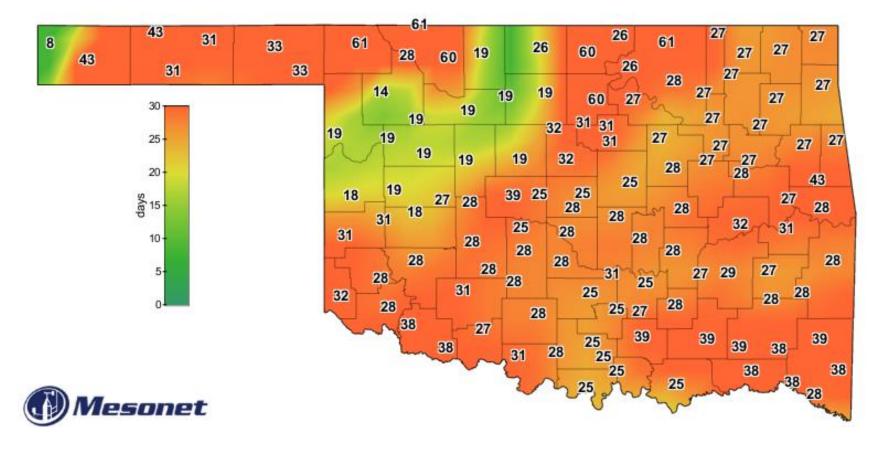


1-DAY AVERAGE 24-INCH FRACTIONAL WATER INDEX



CONSECUTIVE DAYS WITHOUT RAINFALL MAP





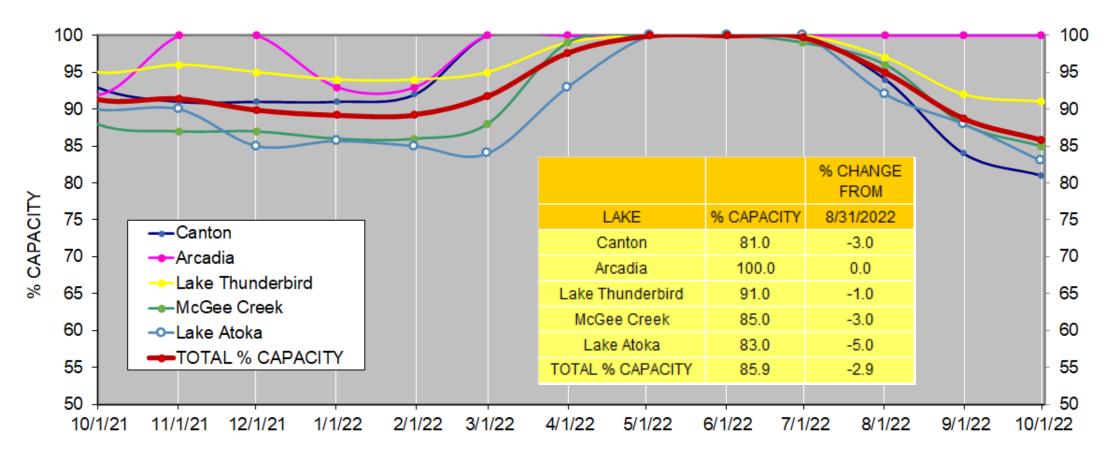
CONSECUTIVE DAYS WITH LESS THAN 0.25" RAINFALL

September 29, 2022

Created 8:15:02 AM September 30, 2022 CDT. © Copyright 2022

PERCENTAGE OF SURFACE WATER CONSERVATION CAPACITY IN CENTRAL OK RESERVOIRS

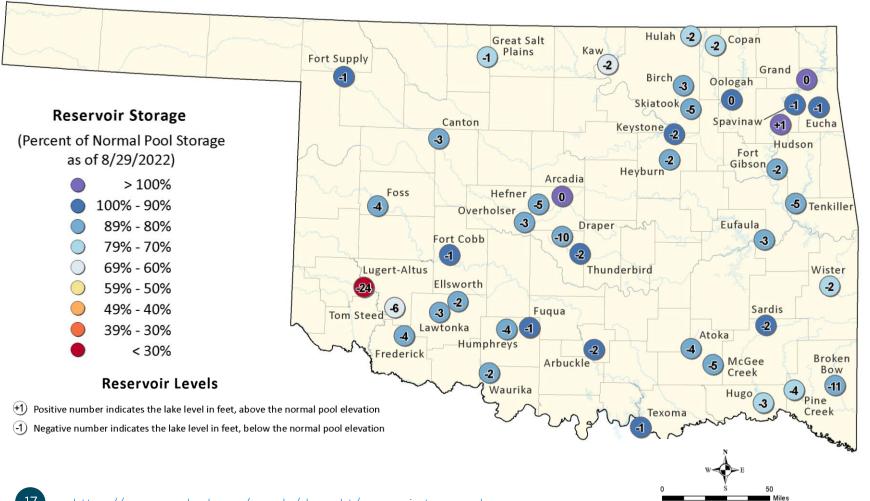




Lake Hefner and Lake Overholser are terminal storage for Canton Lake. Lake Draper is terminal storage for McGee Creek and Atoka Lakes.

OKLAHOMA RESERVOIR LEVELS AND STORAGE





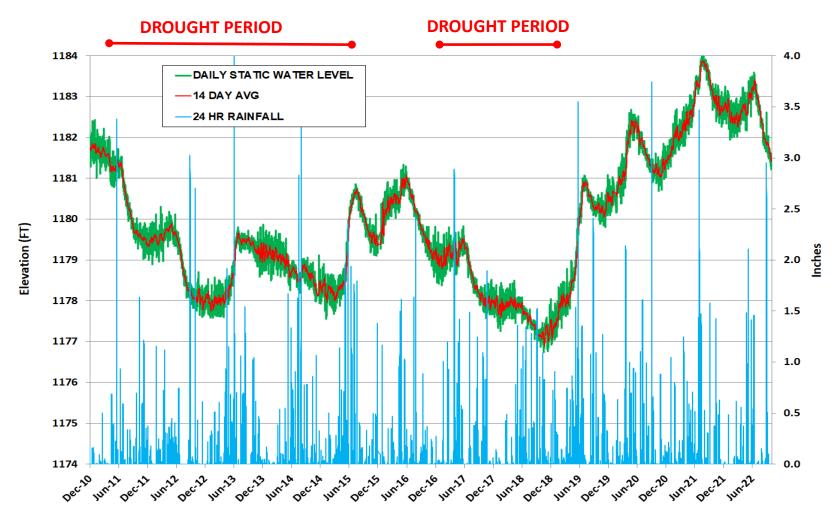
OKLAHOMA RESERVOIR LEVELS AND STORAGE AS OF 9/22/2022

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 (https://www.waterdata.usgs.gov/ok/nwis/current/?type=lake&group_key=basin_cd). For more information, please visit the OWRB's website: (https://www.owrb.ok.gov).



GROUNDWATER LEVELS SPENCER MESONET STATION



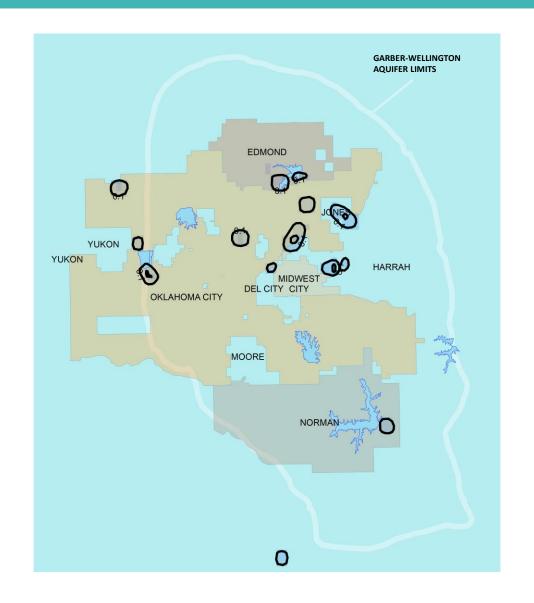


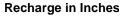


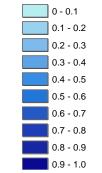
AQUIFER RECHARGE – SEPTEMBER 2022

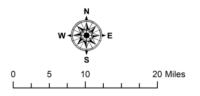


- Aquifer recharge in September 2022 was spotty at best.
- With the exception of some very localized areas, recharge for the aquifer was essentially zero.





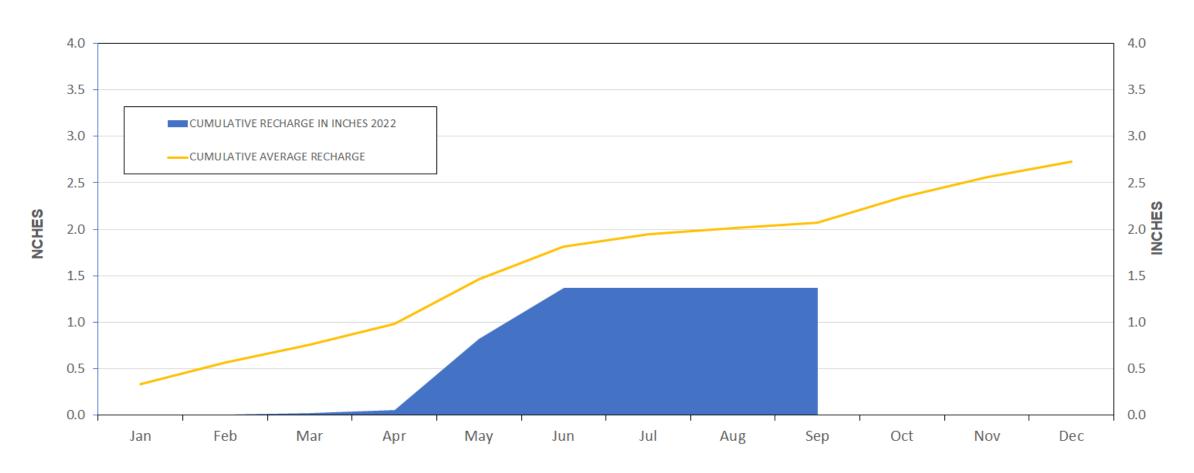




RECHARGE CHARTS CENTRAL OKLAHOMA **AQUIFER SYSTEM**



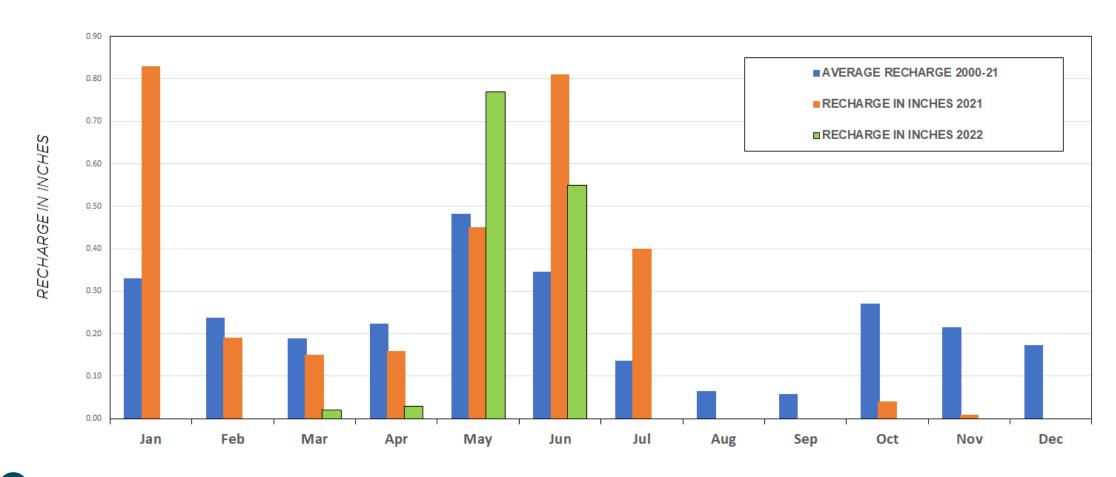
ACCUMULATED CENTRAL OKLAHOMA AQUIFER SYSTEM RECHARGE 2022



RECHARGE CHARTS CENTRAL OKLAHOMA AQUIFER SYSTEM CONTINUED

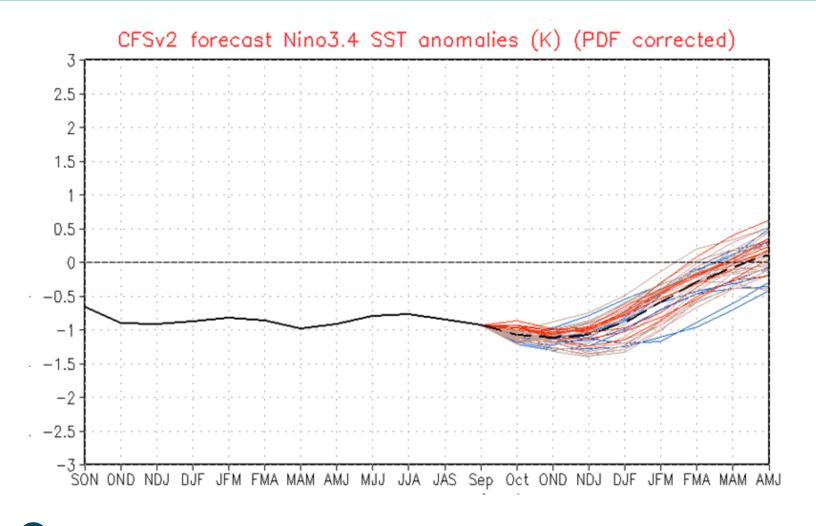


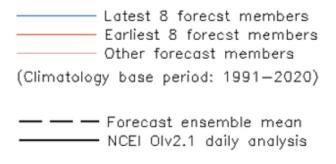
MONTHLY AQUIFER RECHARGE



ENSO CYCLE - RECENT EVOLUTION, CURRENT STATUS AND PREDICTIONS





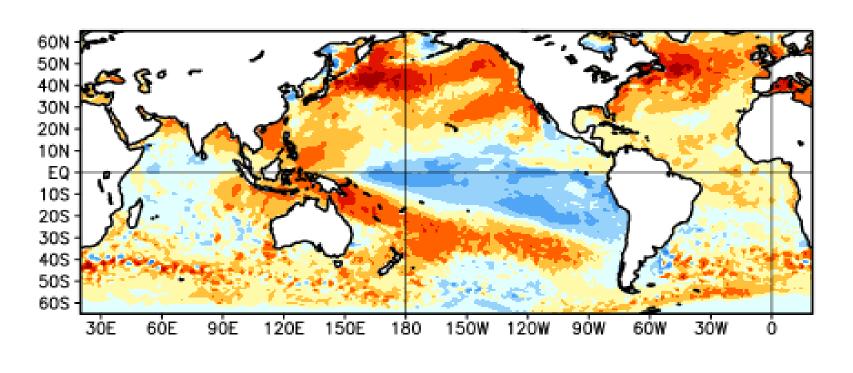




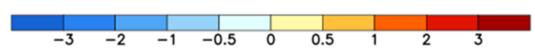
ENSO CYCLE - RECENT EVOLUTION, CURRENT STATUS AND PREDICTIONS



AVERAGE SST ANOMALIES: 31 JUL 2022 - 27 AUG 2022







SUMMARY



ENSO ALERT SYSTEM STATUS: LA NIÑA ADVISORY

- La Niña is present.
- Equatorial sea surface temperatures (SSTs) are below average across most of the Pacific Ocean.
- The tropical Pacific atmosphere is consistent with La Niña.
- La Niña is favored to continue through Northern Hemisphere winter 2022-23, with a 91% chance in September-November, decreasing to a 54% chance in January-March 2023.



