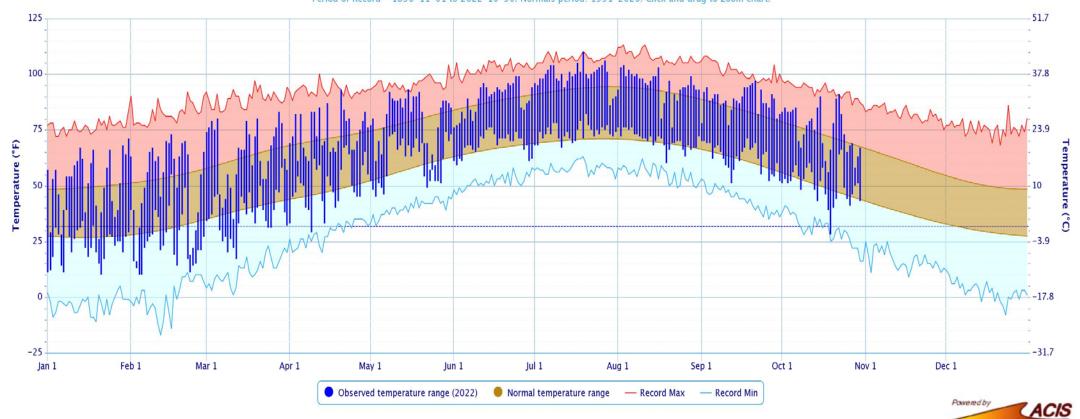


TEMPERATURE PLOT FOR OKLAHOMA CITY, **OKLAHOMA FOR 2022**



Daily Temperature Data - Oklahoma City Area, OK (ThreadEx)

Period of Record - 1890-11-01 to 2022-10-30. Normals period: 1991-2020. Click and drag to zoom chart.

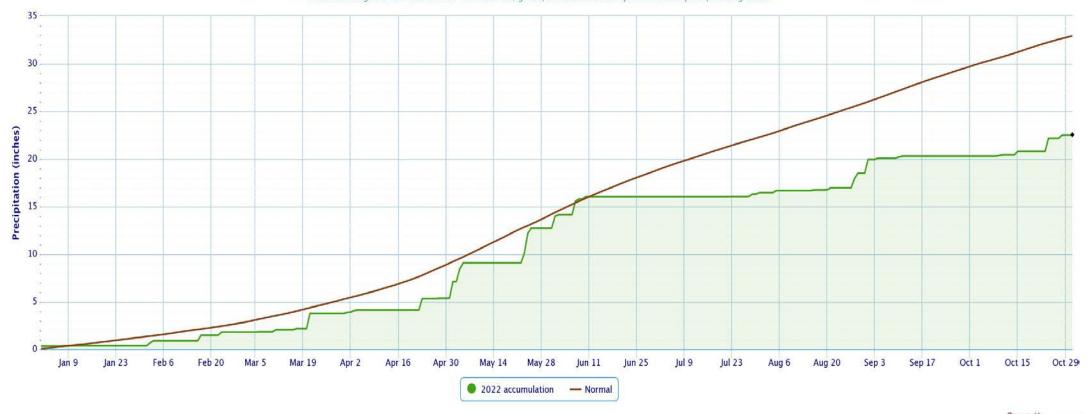


PRECIPITATION PLOT FOR OKLAHOMA CITY, OKLAHOMA FOR 2022



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	30-Oct-2022
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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	18.68"	-6.93"	73%	15th driest	11.03" (2011)	39.94" (1941)
Central	27.18"	-5.96"	82%	27th driest	17.02" (1956)	50.80" (2007)
S. Central	25.73"	-9.46"	73%	12th driest	16.26" (1963)	55.78" (2015)
Statewide	24.85"	-6.96"	78%	16th driest	16.95" (1956)	43.62" (1957)

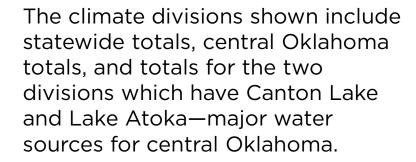
Water Year	01-Oct-2021 through	30-Oct-2022

Climate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 periods)	Driest on Record	Wettest on Record
W. Central	2.11"	-0.64"	77%	47th wettest	0.00" (1952)	8.86" (1923)
Central	2.81"	-0.81"	78%	47th wettest	0.03" (1952)	12.66" (1941)
S. Central	4.32"	+0.15"	104%	34th wettest	0.05" (1921)	14.88" (1981)
Statewide	2.91"	-0.51"	85%	47th wettest	0.13" (1952)	10.35" (1941)

Autumn Sep 01 through 30-Oct-2022

Climate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 periods)	Driest on Record	Wettest on Record
W. Central	2.79"	-2.76"	50%	21st driest	0.26" (1952)	17.16" (1923)
Central	3.69"	-3.77"	49%	21st driest	0.57" (1952)	19.10" (1923)
S. Central	4.92"	-3.22"	60%	28th driest	0.59" (1952)	19.56" (2018)
Statewide	3.61"	-3.35"	52%	16th driest	0.82" (1952)	15.72" (1923)



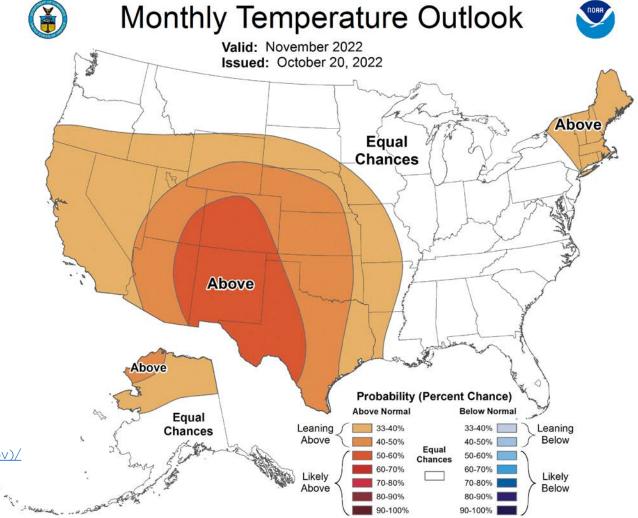


NOAA ONE-MONTH TEMPERATURE OUTLOOK



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.



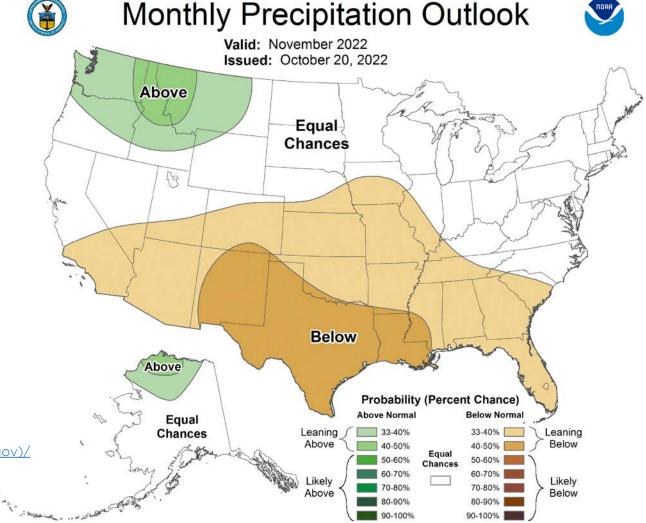
Climate Prediction Center - Updated OFFICIAL 30-Day Forecasts (noaa.gov)/

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.

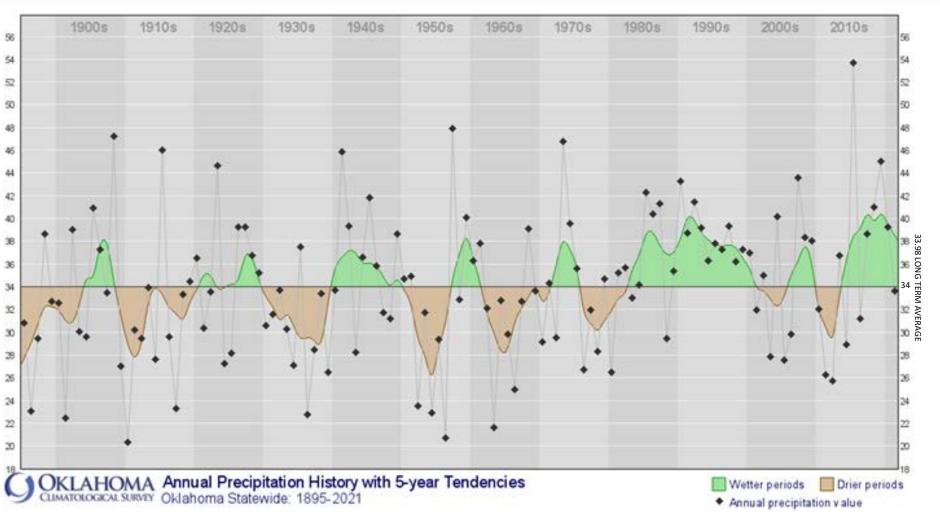
That doesn't mean that there are equal chances of each of the categories occurring – it means that currently there is no skill in identifying the most likely category. In these areas, it is best to be prepared for all possibilities.



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

Annual Precipitation History with 5-Year Tendencies





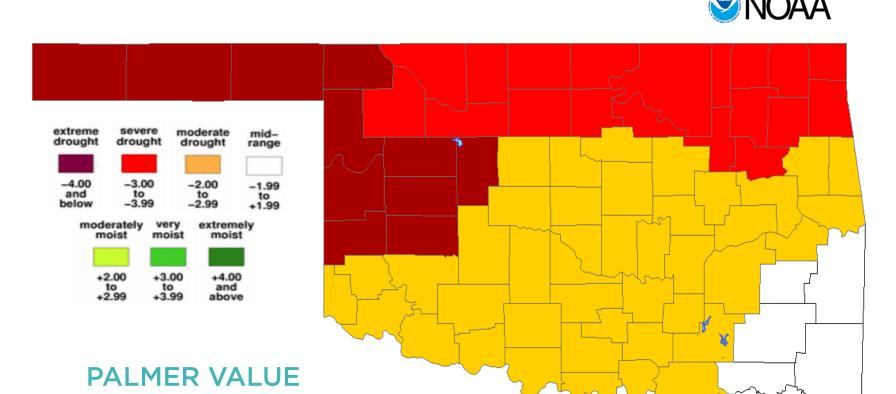
This graph shows the cyclical nature of wet and drought periods in Oklahoma. The black dots represent the annual precipitation for that particular year. The line represents the annual precipitation data smoothed over five years.

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.

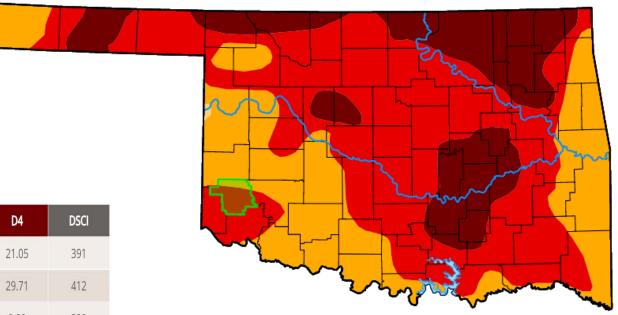
29 OCT 2022

U.S. DROUGHT MONITOR - OKLAHOMA



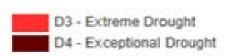
Abnormal dryness or drought are currently affecting approximately 3,751,351 people in Oklahoma.

Week	Date	None	D0-D4	D1-D4	D2-D4	D3-D4	D4	DSCI
Current	2022-10-25	0.00	100.00	100.00	99.82	70.29	21.05	391
Last Week	2022-10-18	0.00	100.00	100.00	99.82	82.26	29.71	412
3 Months Ago	2022-07-26	0.00	100.00	99.81	92.11	37.45	0.00	329
Start of Calendar Year	2021-12-28	4.92	95.08	90.17	72.51	22.62	0.00	280
Start of Water Year	2022-09-27	0.00	100.00	99.88	94.44	64.44	17.25	376
One Year Ago	2021-10-26	5.05	94.95	40.74	10.90	0.77	0.00	147





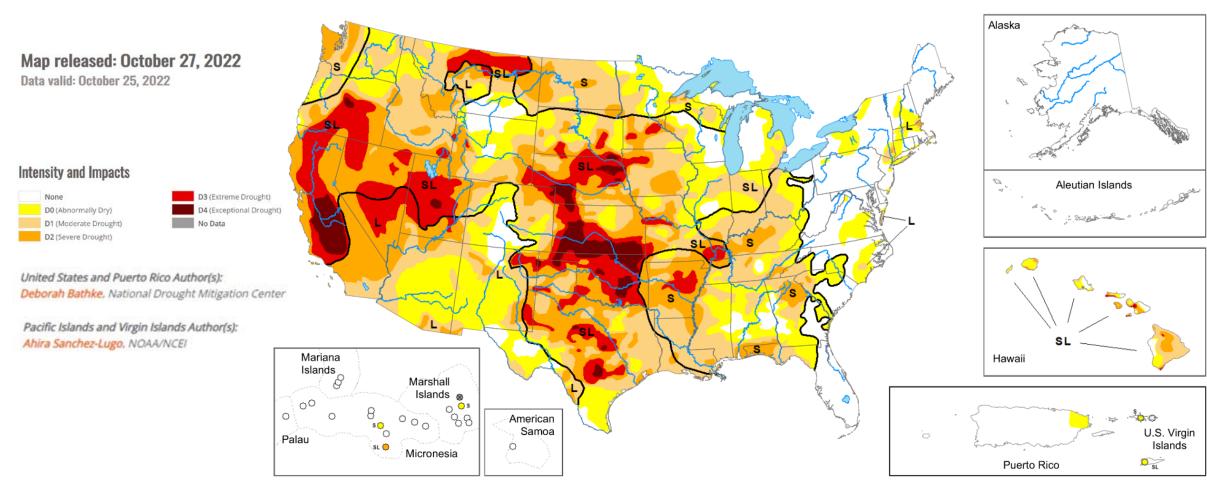
D0 - Abnormally Dry
D1 - Moderate Drought
D2 - Severe Drought





U.S. DROUGHT MONITOR NATIONWIDE MAP

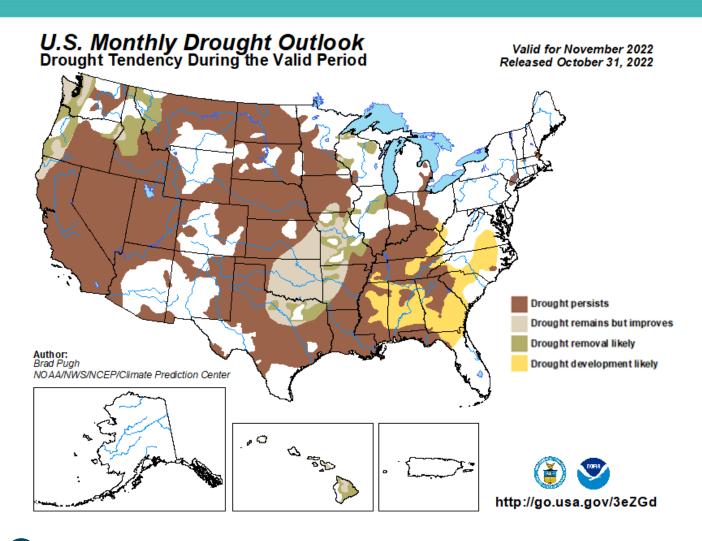






U.S. DROUGHT MONITOR MONTHLY DROUGHT OUTLOOK MAP



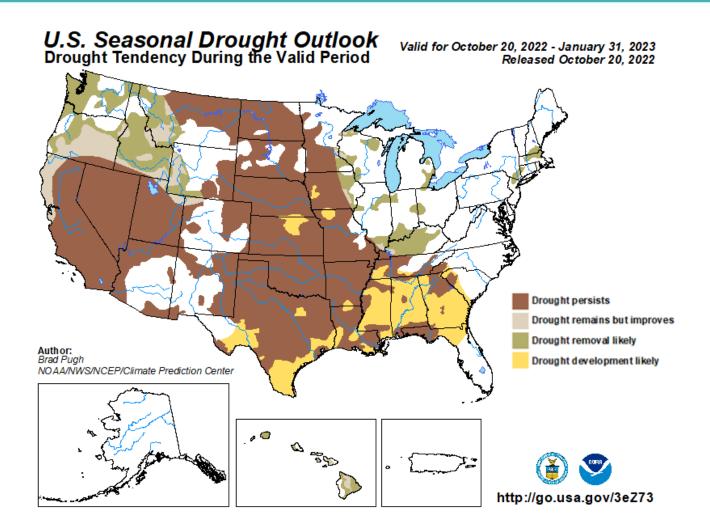


Depicts large-scale trends based on subjectively derived probabilities guided by short and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to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



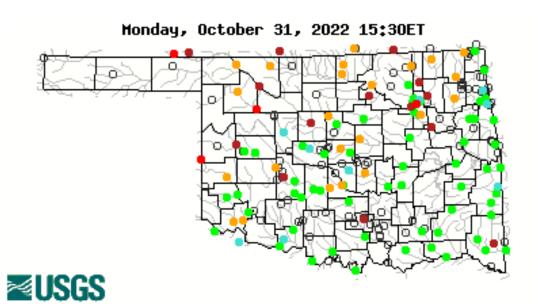


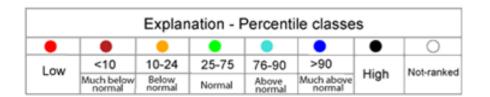
Depicts large-scale trends based on subjectively derived probabilities guided by short and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to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

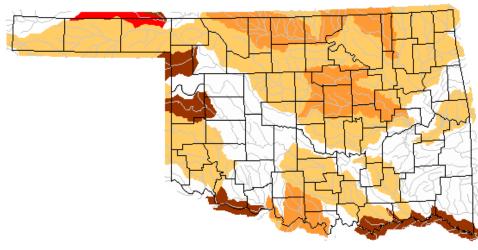






Below normal 28-day average streamflow



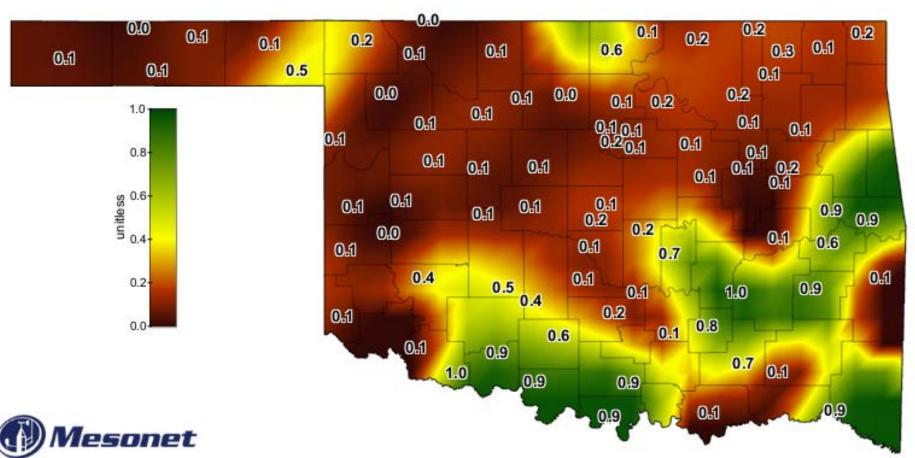




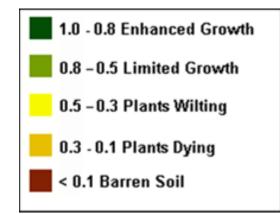
	Explanation	- Percentile clas	ses	
Low	<=5	6-9	10-24	Insufficient data
Extreme hydrologic drought	Severe hydrologic drought	Moderate hydrologic drought	Below normal	for a hydrolog is region

SOIL MOISTURE MAP





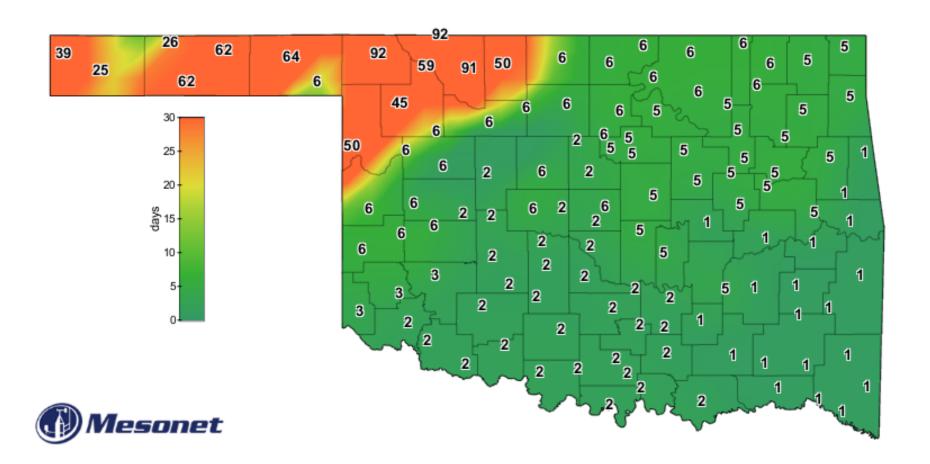
1-DAY AVERAGE **24-INCH FRACTIONAL** WATER INDEX





CONSECUTIVE DAYS WITHOUT RAINFALL MAP

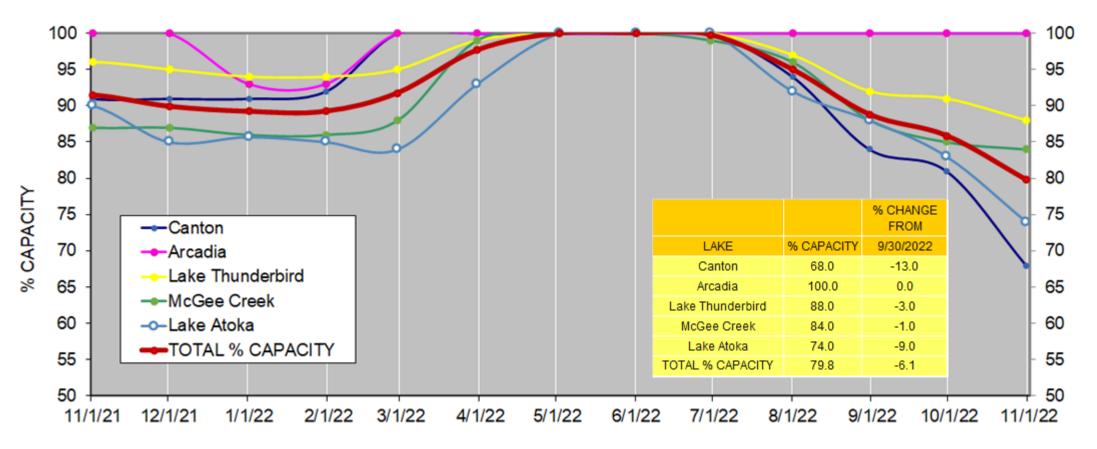




CONSECUTIVE DAYS WITH LESS THAN 0.25" RAINFALL

PERCENTAGE OF SURFACE WATER CONSERVATION CAPACITY IN CENTRAL OK RESERVOIRS

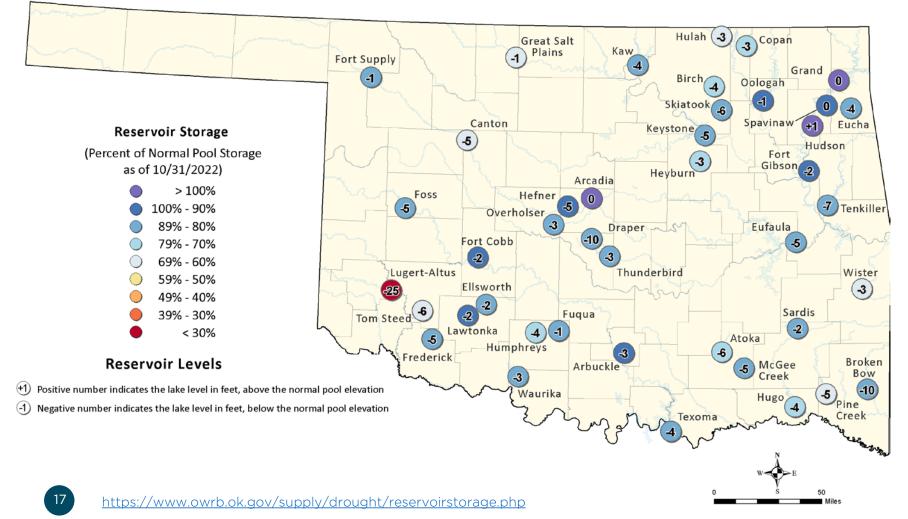




Lake Hefner and Lake Overholser are terminal storage for Canton Lake. Lake Draper is terminal storage for McGee Creek and Atoka Lakes.

OKLAHOMA RESERVOIR LEVELS AND STORAGE





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

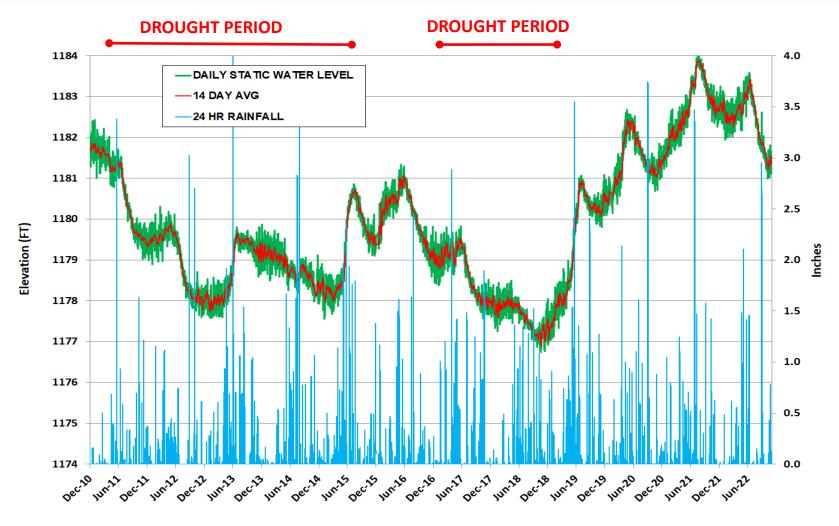
This map shows reservoir storage as a percentage of normal pool storage capacity. The source information was collected from real-time lake gages monitored by the U.S. Army Corps of Engineers (https://www.swt-wc.usace.army.mil/Daily_Morning_Reservoir_Report.pdf), and the U.S. Geological Survey (https://www.waterdata.usgs.gov/ok/nwis/current/?type=lake&group_key=basin_cd). For more information, please visit the OWRB's website:

(https://www.owrb.ok.gov).



GROUNDWATER LEVELS SPENCER MESONET STATION



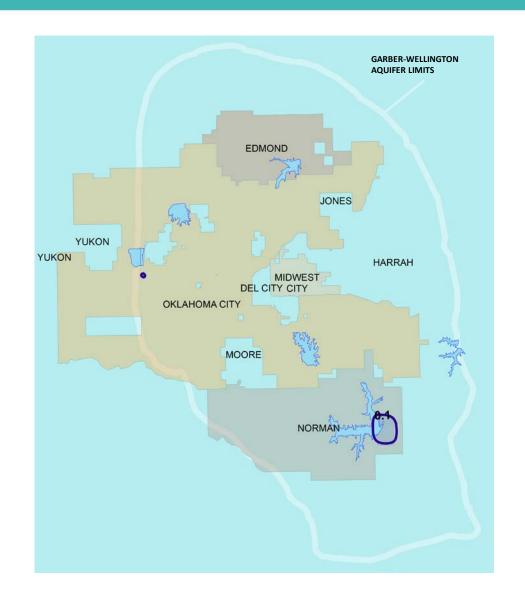


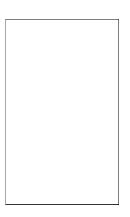


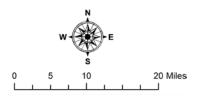
AQUIFER RECHARGE – SEPTEMBER 2022



- Aquifer recharge in October 2022 was similar to the previous month.
- With the exception of some very localized areas, recharge for the aquifer was essentially zero.



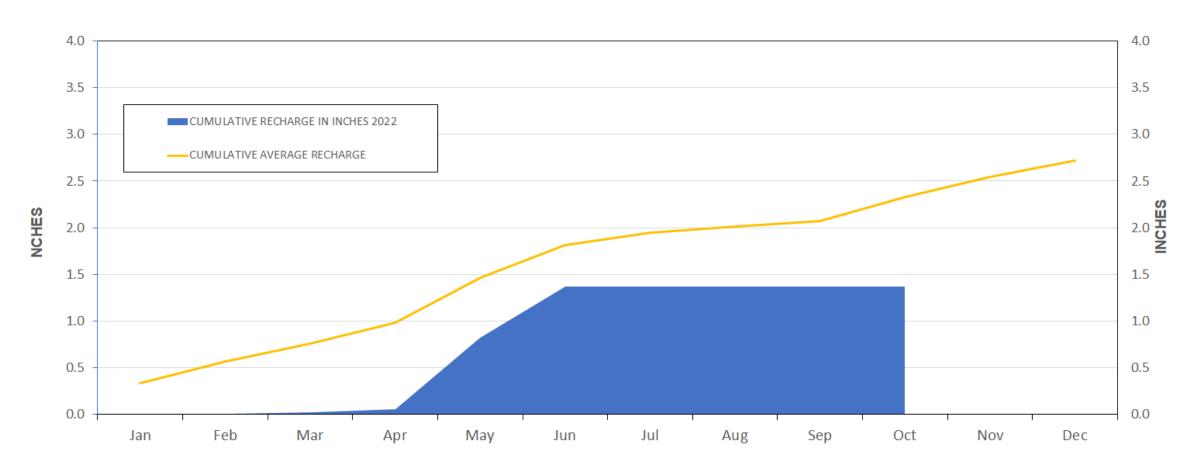




RECHARGE CHARTS CENTRAL OKLAHOMA **AQUIFER SYSTEM**



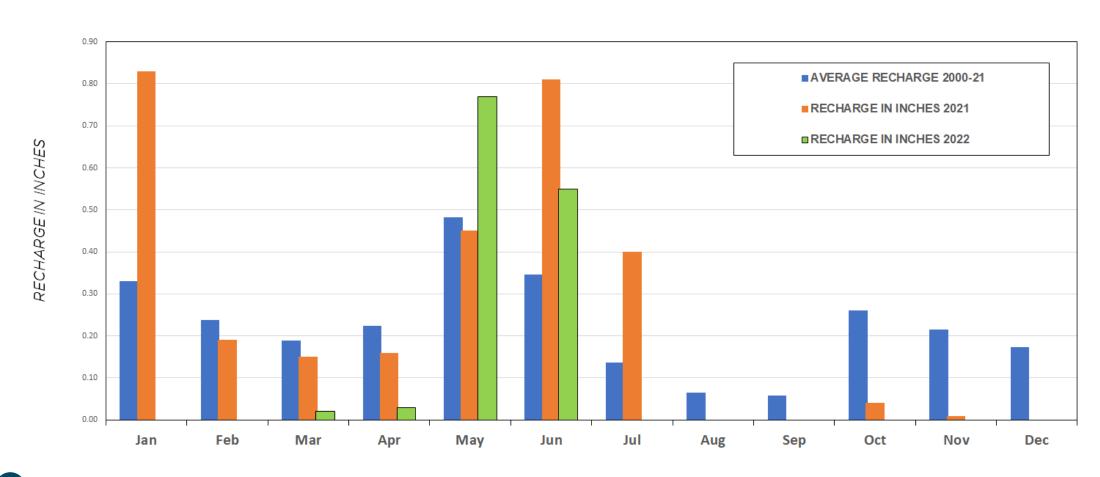
ACCUMULATED CENTRAL OKLAHOMA AQUIFER SYSTEM RECHARGE 2022



RECHARGE CHARTS CENTRAL OKLAHOMA AQUIFER SYSTEM CONTINUED

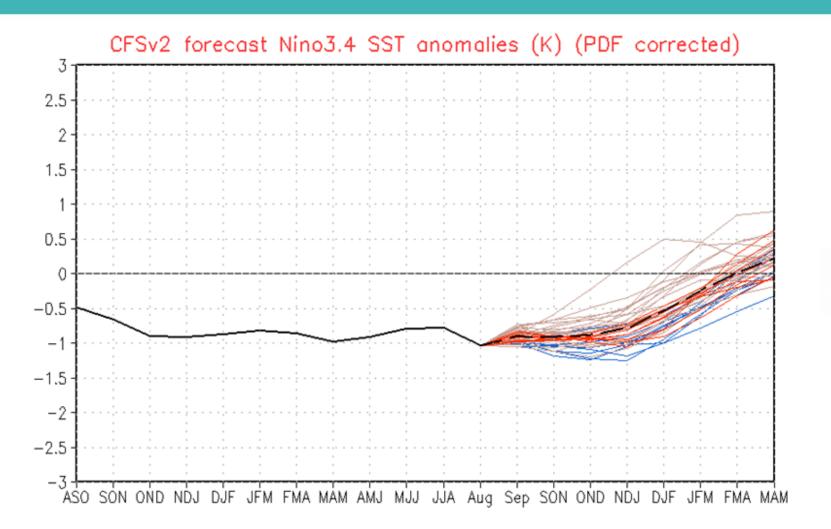


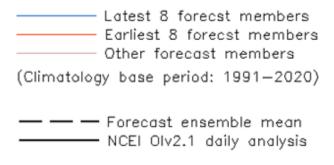
MONTHLY AQUIFER RECHARGE



ENSO CYCLE - RECENT EVOLUTION, CURRENT STATUS AND PREDICTIONS







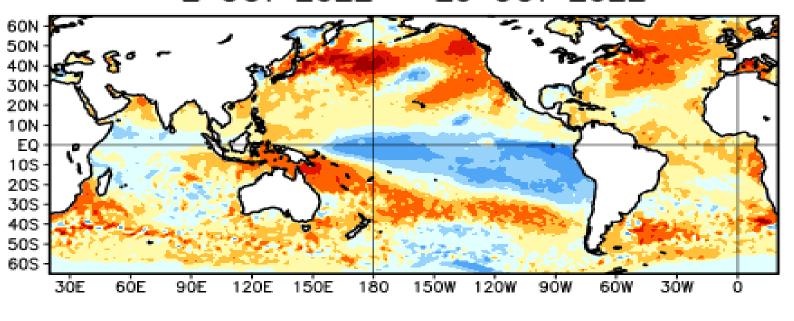


ENSO CYCLE - RECENT EVOLUTION, CURRENT STATUS AND PREDICTIONS

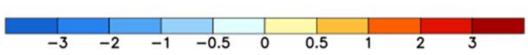


AVERAGE SST ANOMALIES: 31 JUL 2022 - 27 AUG 2022

Average SST Anomalies 2 OCT 2022 - 29 OCT 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.
- There is a 75% chance of La Niña during the Northern Hemisphere winter (December-February) 2022-23, with a 54% chance for ENSO-neutral in February-April 2023.



