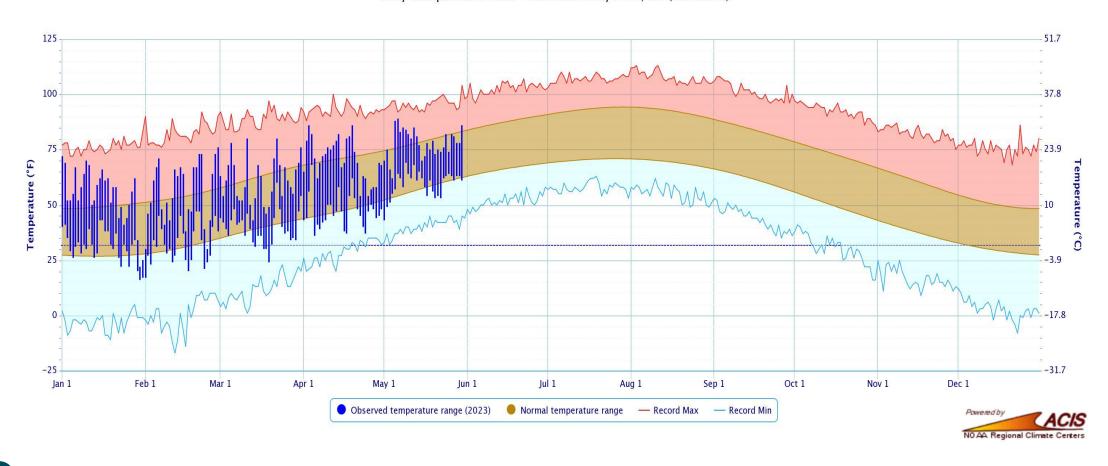


TEMPERATURE PLOT FOR OKLAHOMA CITY, OKLAHOMA FOR 2023



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



PRECIPITATION PLOT FOR OKLAHOMA CITY, **OKLAHOMA FOR 2023**



Accumulated Precipitation - Oklahoma City Area, OK (ThreadEx)



RAINFALL SUMMARIES BY OKLAHOMA CLIMATE DIVISION



Calendar Year	01-Jan-2022 though	30-May-2023

Climate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 periods)	Driest on Record	Wettest on Record
W. Central	7.58"	-3.07"	71%	21st driest	2.47" (1996)	20.92" (1957)
Central	13.21"	-1.42"	90%	51st driest	5.43" (2014)	26.93" (1990)
S. Central	15.15"	-1.54"	91%	42nd driest	8.07" (1963)	35.42" (1990)
Statewide	13.04"	-1.29"	91%	47th driest	6.96" (1936)	25.24" (1957)

Water Year: 01-Oct-2021 through 30-May-2023

Climate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 periods)	Driest on Record	Wettest on Record
W. Central	12.71"	-3.48"	79%	33rd driest	4.72" (1995-96)	30.41" (2018-19)
Central	20.16"	-2.58"	89%	49th driest	10.22" (1995-96)	36.01" (1984-85)
S. Central	24.94"	-1.44"	95%	47th wettest	11.63" (1955-56)	41.59" (2015-16)
Statewide	20.49"	-1.92"	91%	47th driest	10.95" (1995-96)	33.29" (2018-19)

Spring Mar 01 through 30-May-2023

С	limate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 periods)	Driest on Record	Wettest on Record
	W. Central	6.26"	-2.32"	73%	27th driest	1.76" (1971)	19.03" (1957)
	Central	10.03"	-1.37"	88%	41st driest	3.39" (2005)	22.09" (1957)
	S. Central	10.54"	-1.81"	85%	37th driest	4.49" (2005)	29.04" (2015)
	Statewide	9.29"	-1.65"	85%	31st driest	5.05" (2005)	22.03" (1957)



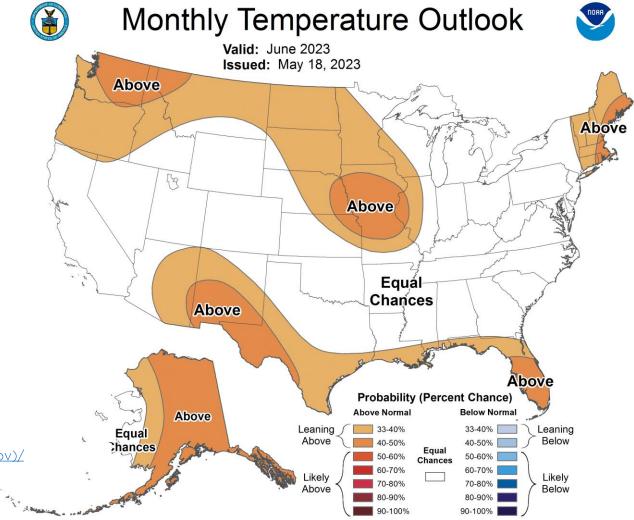
The climate divisions shown include statewide totals, central Oklahoma totals, and totals for the two divisions which have Canton Lake and Lake Atoka—major water sources for central Oklahoma.

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.

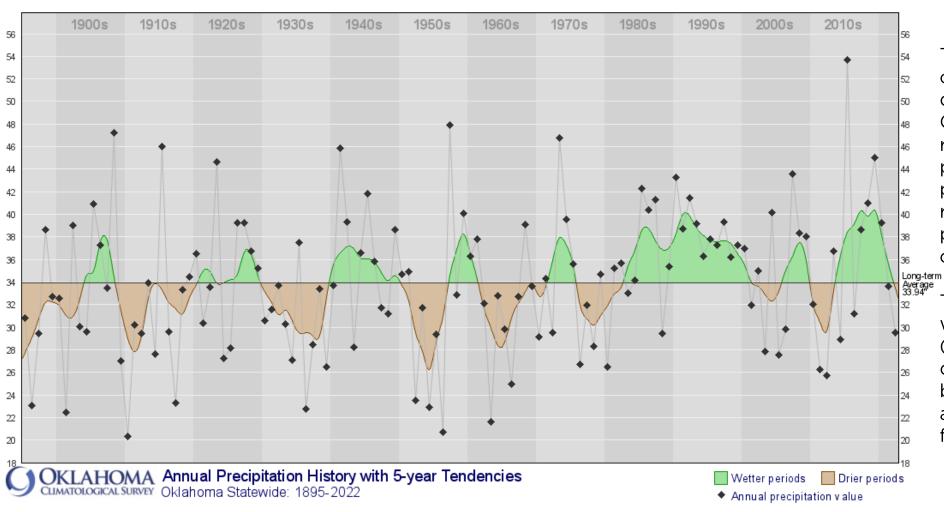
That doesn't mean that there are equal chances of each of the categories occurring – it means that currently there is no skill in identifying the most likely category. In these areas, it is best to be prepared for all possibilities.

Monthly Precipitation Outlook Valid: June 2023 Issued: May 18, 2023 Above Equal Chances Above Equal Probability (Percent Chance) Chances Likely

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.

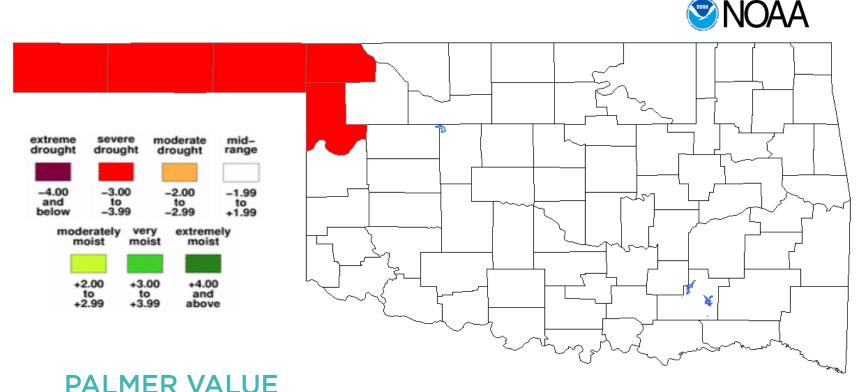
This smoothed line shows well the wet periods (shaded green) and the drought periods (shaded brown). The drought cycles appear to average about five to eight years in length.

7

http://climate.ok.gov/index.php/climate/climate_trends/precipitation_history_annual_statewide/CD00/prcp/Annual/oklahoma_south-central_u.s

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.

27 MAY 2023

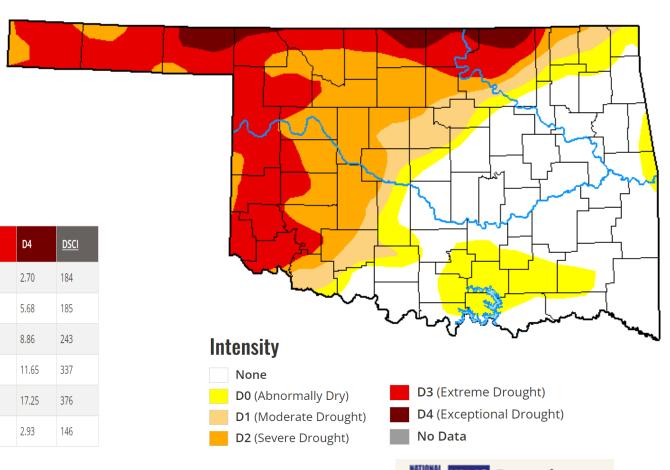
U.S. DROUGHT MONITOR - OKLAHOMA



June 4, 2023

Abnormal dryness or drought are currently affecting approximately 929,509 people in Oklahoma.

Week	Date	None	D0-D4	D1-D4	D2-D4	D3-D4	D4	<u>DSCI</u>
Current	2023-05-30	37.13	62.87	50.44	43.18	24.99	2.70	184
Last Week to Current	2023-05-23	39.86	60.14	50.44	43.18	25.09	5.68	185
3 Months Ago to Current	2023-02-28	22.85	77.15	66.88	53.52	36.64	8.86	243
Start of Calendar Year to Current	2022-12-27	1.82	98.18	89.73	80.92	56.13	11.65	337
Start of Water Year to Current	2022-09-27	0.00	100.00	99.88	94.44	64.44	17.25	376
One Year Ago to Current	<u>2022-05-31</u>	51.02	48.98	42.58	34.82	17.16	2.93	146





U.S. DROUGHT MONITOR NATIONWIDE MAP



Map released: May 25, 2023

Data valid: May 23, 2023

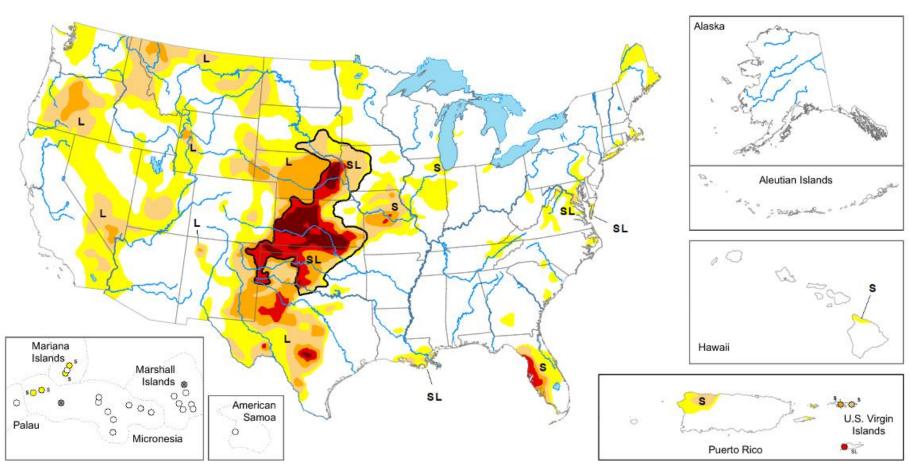
Intensity and Impacts



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



United States and Puerto Rico Author(s):

Brad Rippey, U.S. Department of Agriculture

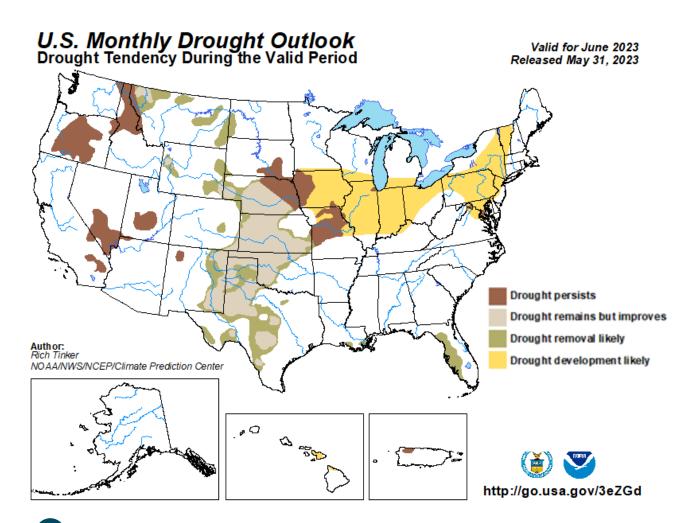
Pacific Islands and Virgin Islands Author(s):

Rocky Bilotta, NOAA/NCEI



U.S. DROUGHT MONITOR MONTHLY DROUGHT OUTLOOK MAP



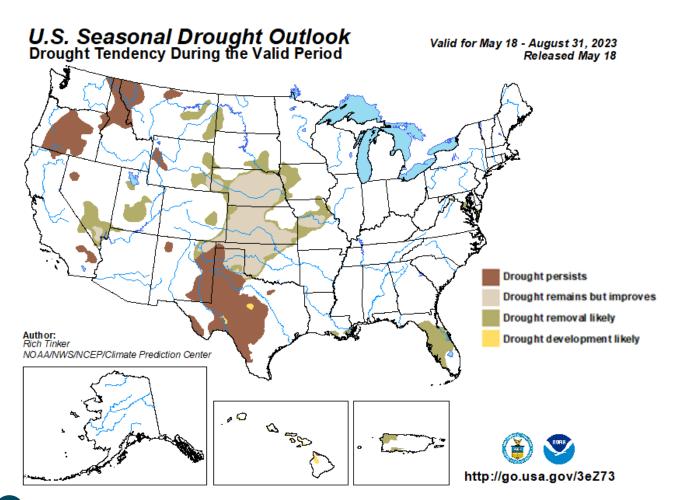


Depicts large-scale trends based on subjectively derived probabilities guided by short and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to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



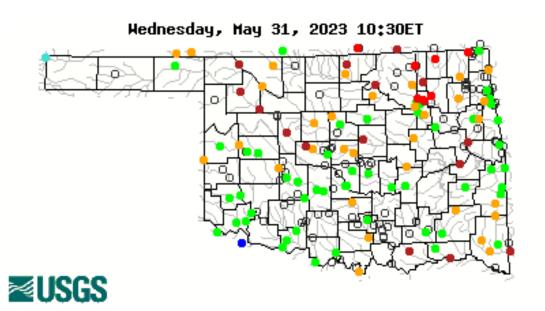


Depicts large-scale trends based on subjectively derived probabilities guided by short and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to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

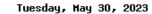
NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

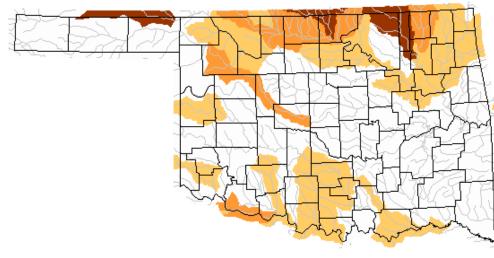
USGS STREAMFLOW DATA

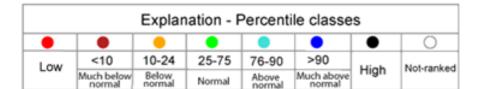




Below normal 28-day average streamflow





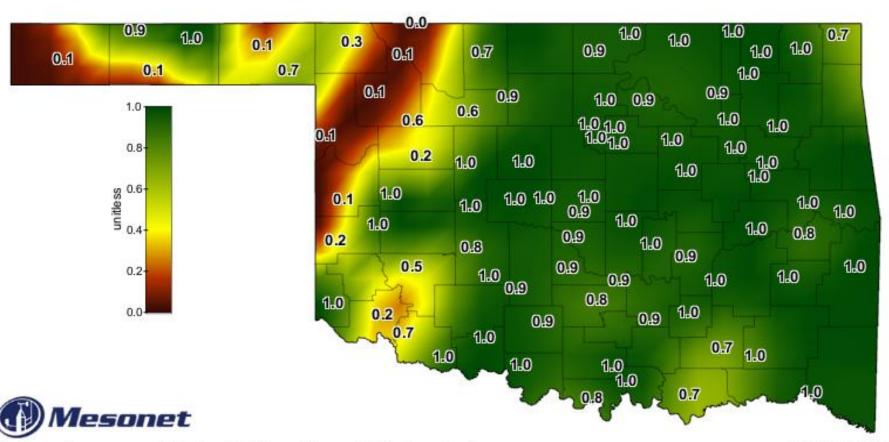




Explanation - Percentile classes								
Low	<=5	6-9	10-24	Inc. Alle is et deta				
Extreme hydrologic drought	-	Moderate hydrologic drought	Below normal	for a hydrologic region				

SOIL MOISTURE MAP





1-DAY AVERAGE 24-INCH FRACTIONAL WATER INDEX



1-day Average 24-inch Fractional Water Index

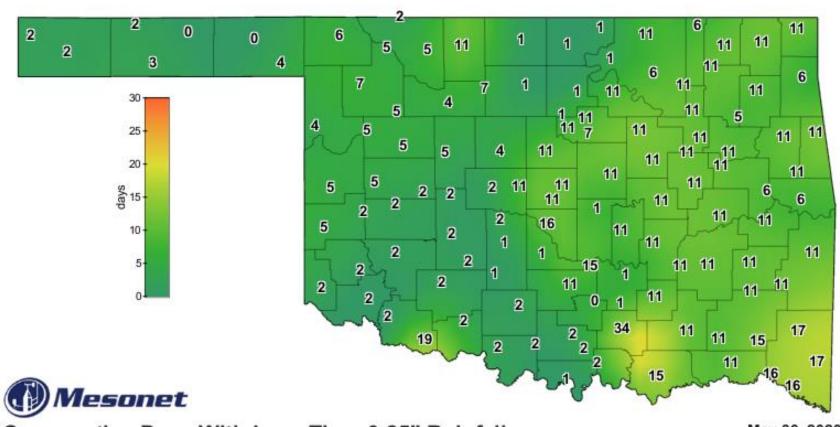
Created 7:30:14 AM May 31, 2023 CDT. © Copyright 2023

May 30, 2023



CONSECUTIVE DAYS WITHOUT RAINFALL MAP





CONSECUTIVE DAYS WITH LESS THAN 0.25" RAINFALL

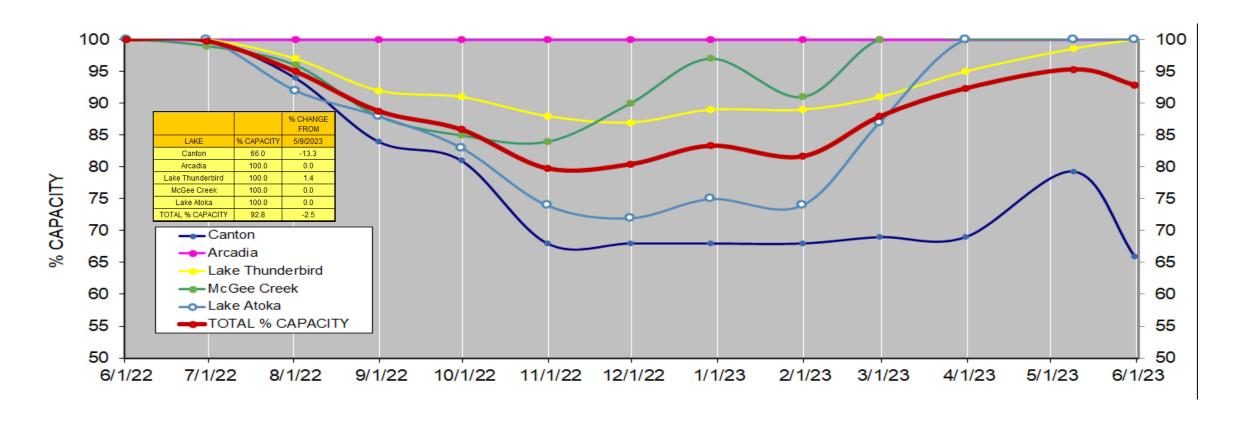
Consecutive Davs With Less Than 0.25" Rainfall

May 30, 2023

Created 8:15:02 AM May 31, 2023 CDT. © Copyright 2023

PERCENTAGE OF SURFACE WATER CONSERVATION CAPACITY IN CENTRAL OK RESERVOIRS

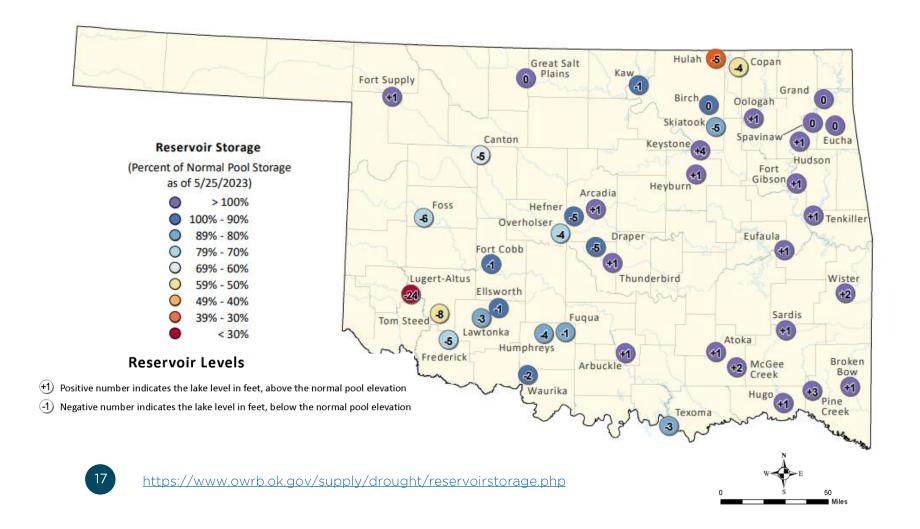




Lake Hefner and Lake Overholser are terminal storage for Canton Lake. Lake Draper is terminal storage for McGee Creek and Atoka Lakes.

OKLAHOMA RESERVOIR LEVELS AND STORAGE





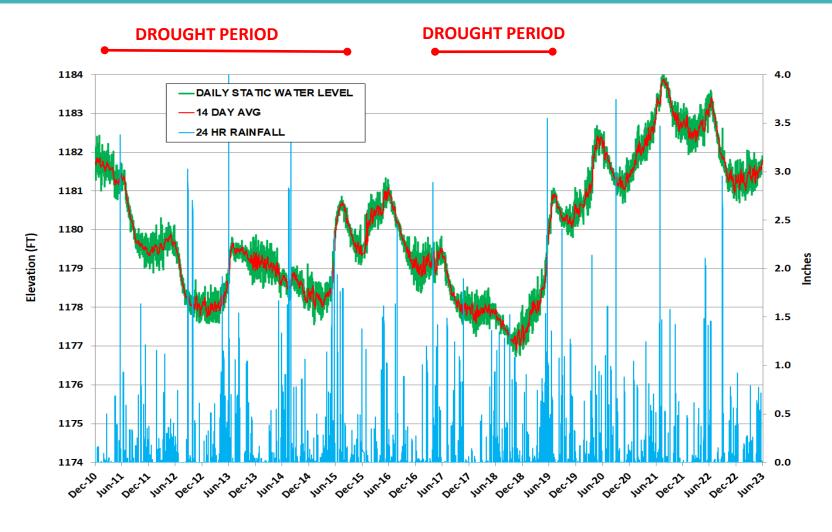
OKLAHOMA RESERVOIR LEVELS AND STORAGE AS OF 5/25/2023

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



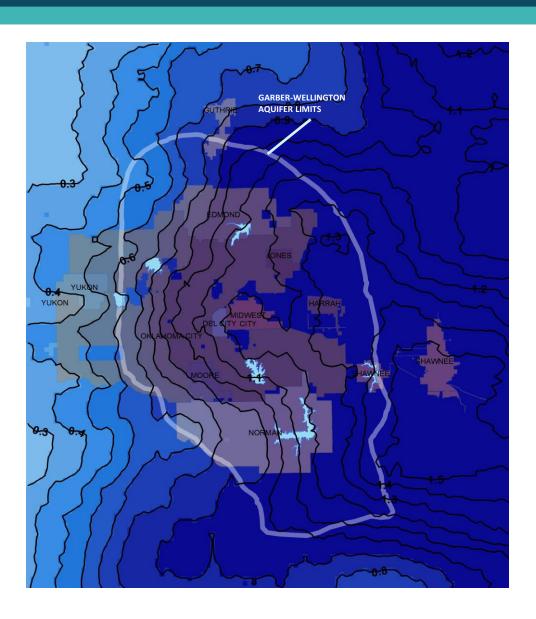




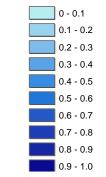
AQUIFER RECHARGE - May 2023

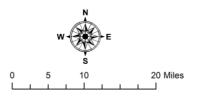


- Aquifer recharge in May 2023 was 0.91 inches.
- Normal recharge for May is 0.48 inches.
- This is 0.05 inches below the cumulative yearly average at this time.



Recharge in Inches

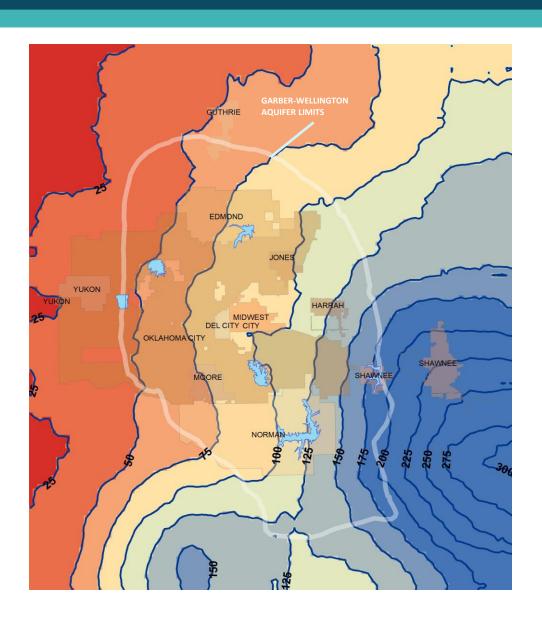




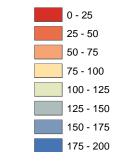
PERCENT TOTAL CUMULATIVE AQUIFER RECHARGE – May 2023

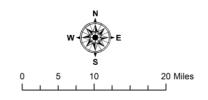


- Most of the recharge for 2023 so far this year is south and east of Shawnee.
- Recharge for the central Oklahoma metro area is only about 75 percent of normal.
- Normal cumulative recharge for Jan-May 2023 is 1.46 inches.



Percent of Cumulative Recharge

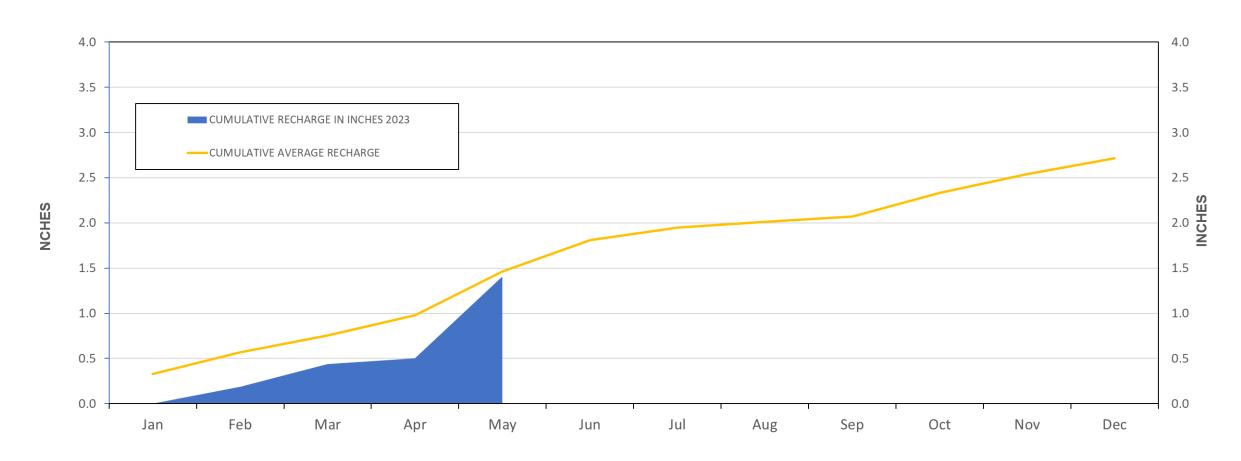




RECHARGE CHARTS CENTRAL OKLAHOMA AQUIFER SYSTEM



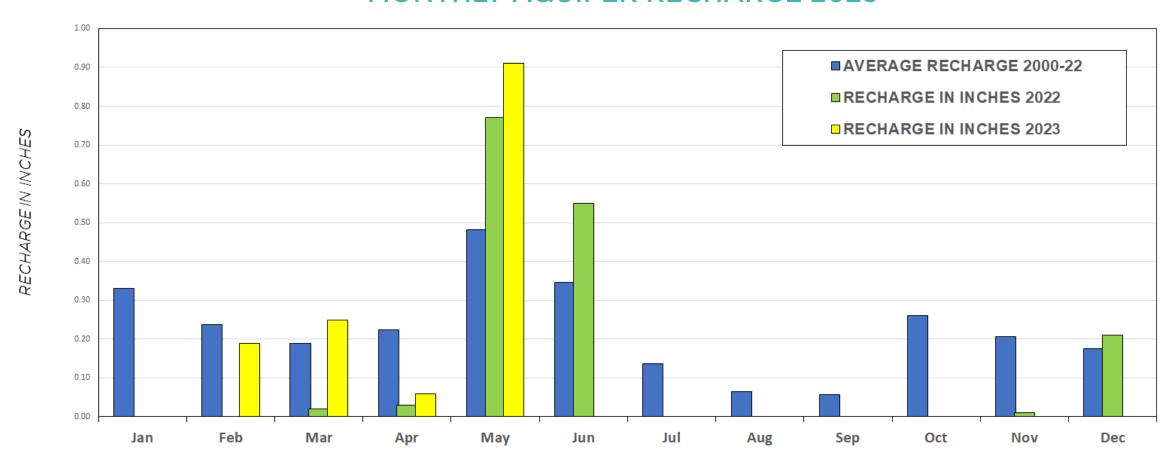
ACCUMULATED CENTRAL OKLAHOMA AQUIFER SYSTEM RECHARGE 2023



RECHARGE CHARTS CENTRAL OKLAHOMA AQUIFER SYSTEM CONTINUED

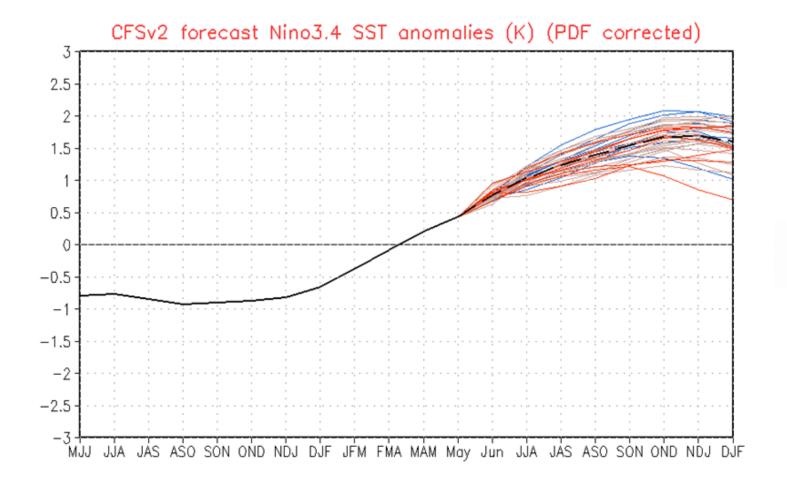


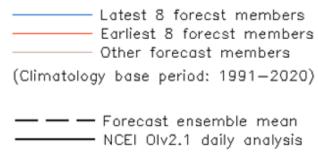
MONTHLY AQUIFER RECHARGE 2023



ENSO CYCLE - RECENT EVOLUTION, CURRENT STATUS AND PREDICTIONS





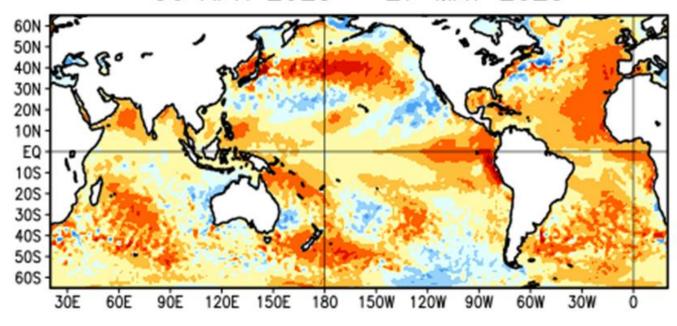




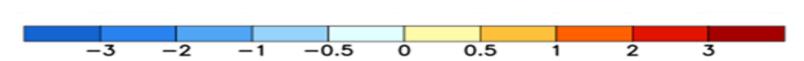
ENSO CYCLE - RECENT EVOLUTION, CURRENT STATUS AND PREDICTIONS



Average SST Anomalies 30 APR 2023 - 27 MAY 2023







SUMMARY



ENSO ALERT SYSTEM STATUS: El Niño Watch

- ENSO-neutral conditions are observed.
- Equatorial sea surface temperatures (SSTs) are near-to-above average across most of the Pacific Ocean.
- A transition from ENSO-neutral is expected in the next couple of months, with a greater than 90% chance of El Niño persisting into the Northern Hemisphere winter.



