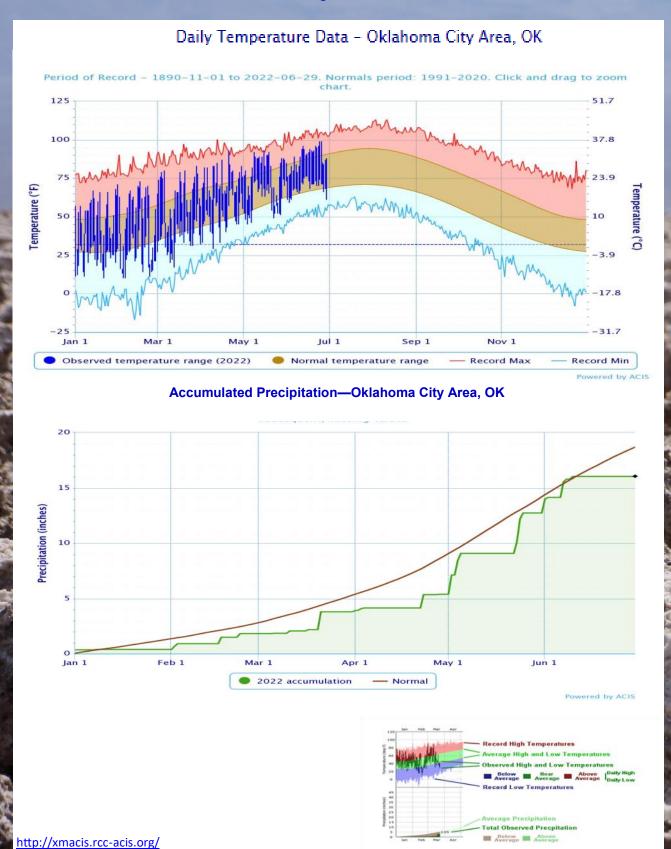




Temperature and Precipitation Plot for Oklahoma City, Oklahoma for 2022



Rainfall Summaries by Oklahoma Climate Division

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

Climate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 peri- ods)	Driest on Record	Wettest on Record
W. Central	11.97"	-2.86"	81%	34th driest	4.82" (2011)	25.53" (1957)
Central	20.10"	+0.48"	102%	37th wettest	8.17" (1936)	34.13" (1957)
S. Central	16.99"	-4.56"	79%	29th driest	9.88" (1963)	42.03" (2015)
Statewide	17.33"	-1.56"	92%	47th driest	8.76" (1936)	32.47" (1957)

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

Climate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 periods)	Driest on Record	Wettest on Record
W. Central	14.30"	-6.07"	70%	23rd driest	9.37" (2010-11)	33.92" (2018-19)
Central	25.61"	-2.12"	92%	48th wettest	14.14" (1995-96)	43.44" (1984-85)
S. Central	22.19"	-9.05"	71%	19th driest	13.18" (1924-25)	50.85" (2014-15)
Statewide	22.88"	-4.09"	85%	37th driest	14.32" (1955-56)	38.41" (1956-57)

Summer Jun 01 through

29-Jun-2022

Climate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 peri- ods)	Driest on Record	Wettest on Record
W. Central	4.76"	+0.74"	118%	27th wettest	0.11" (1933)	8.75" (1962)
Central	3.80"	-1.01"	79%	50th driest	0.34" (1933)	12.31" (2007)
S. Central	3.55"	-1.13"	76%	44th driest	0.19" (1933)	9.95" (2007)
Statewide	3.76"	-0.64"	85%	49th driest	0.41" (1933)	9.30" (2007)

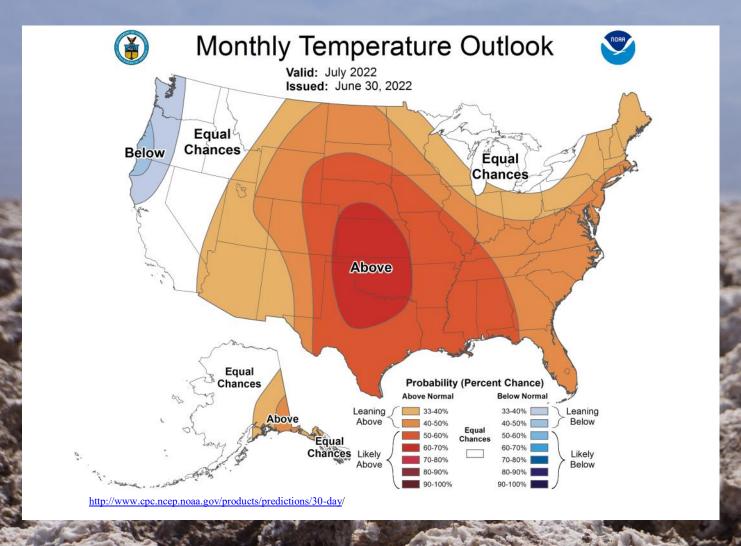
The climate divisions shown include statewide totals, central Oklahoma totals, and totals for the two divisions which have Canton Lake and Lake Atoka—major water sources for central Oklahoma.



http://climate.ok.gov/index.php/drought/last 30 days/



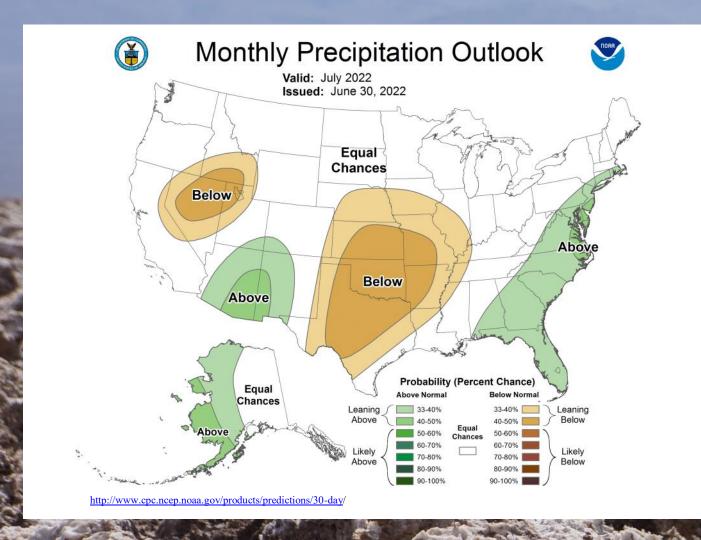
NOAA One-Month Outlook



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.

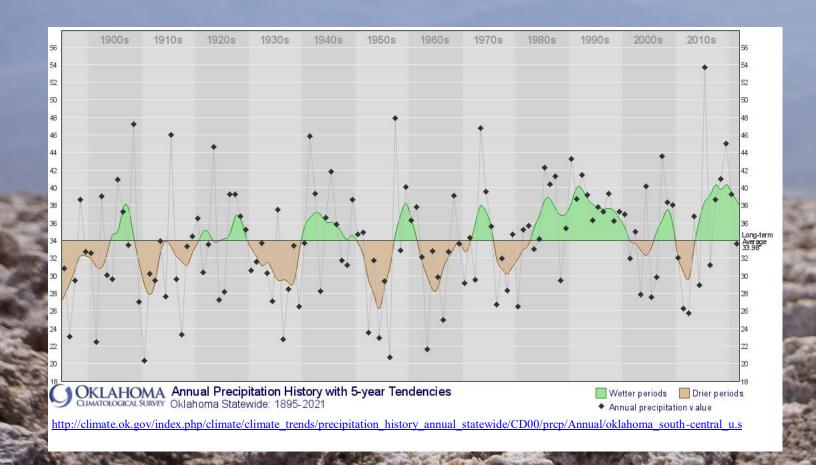
NOAA One-Month Outlook



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.

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Annual Precipitation Historywith 5-Year Tendencies



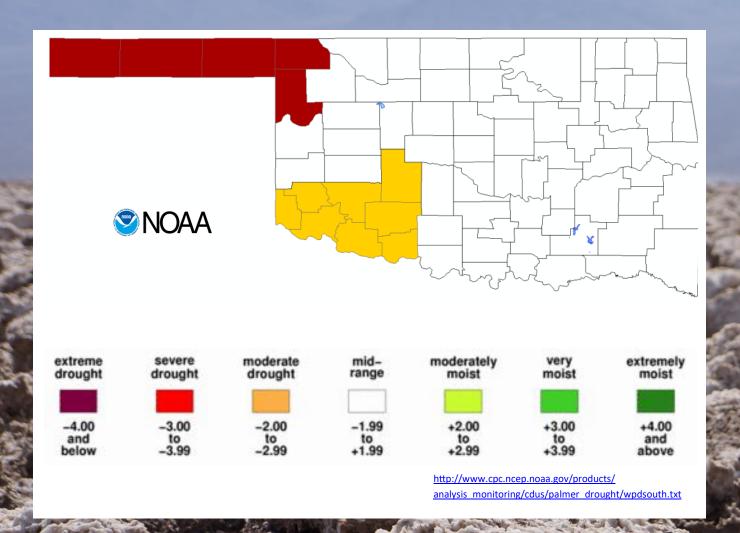
This graph shows the cyclical nature of wet and drought periods in Oklahoma. The black dots represent the annual precipitation for that particular year. The line represents the annual precipitation data smoothed over five years.

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

Palmer Value Ending 25 JUN 2022



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 (meteorological) moisture conditions has changed over the last 12 months.

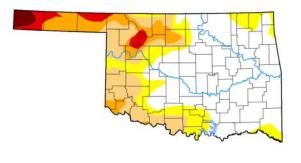
On these maps, the red shading denotes drought conditions while the green shading indicates wet conditions.

U.S. Drought Monitor

Week	Date	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	2022-06-28	54.09	45.91	30.76	14.79	5.07	1.46
Last Week	2022-06-21	58.98	41.02	31.26	15.81	5.45	1.46
3 Months Ago	2022-03-29	13.76	86.24	76.49	63.34	33.90	8.32
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	2021-06-29	84.11	15.89	1.77	0.24	0.00	0.00

U.S. Drought Monitor Oklahoma

Abnormal dryness or drought are currently affecting approximately 515,746 people in Oklahoma.





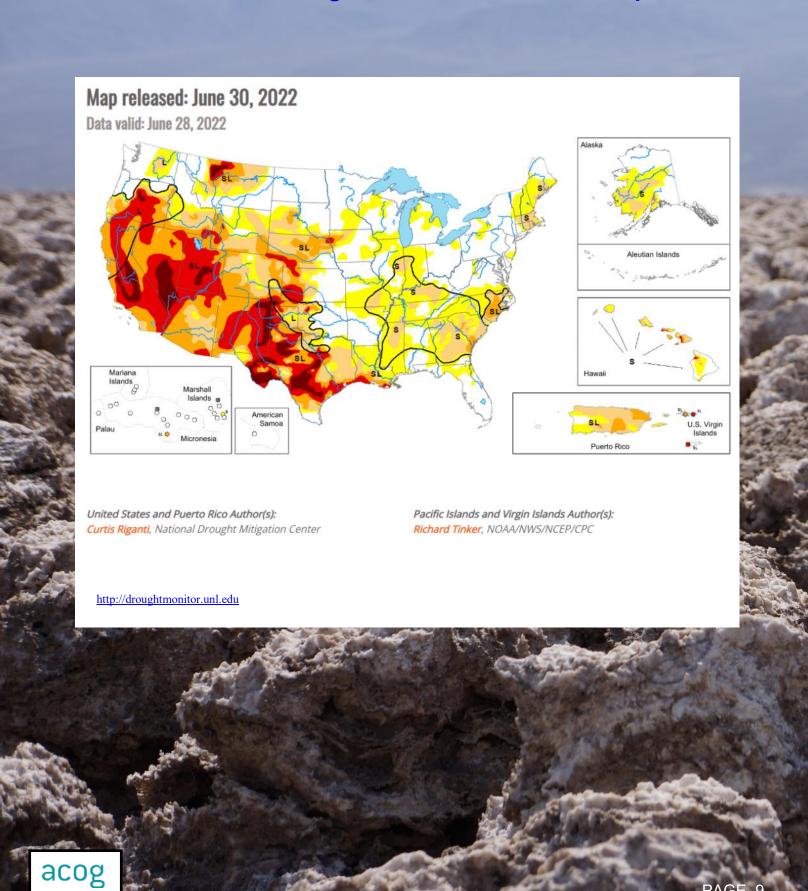


https://droughtmonitor.unl.edu/CurrentMap/ StateDroughtMonitor.aspx?OK

Intensity:



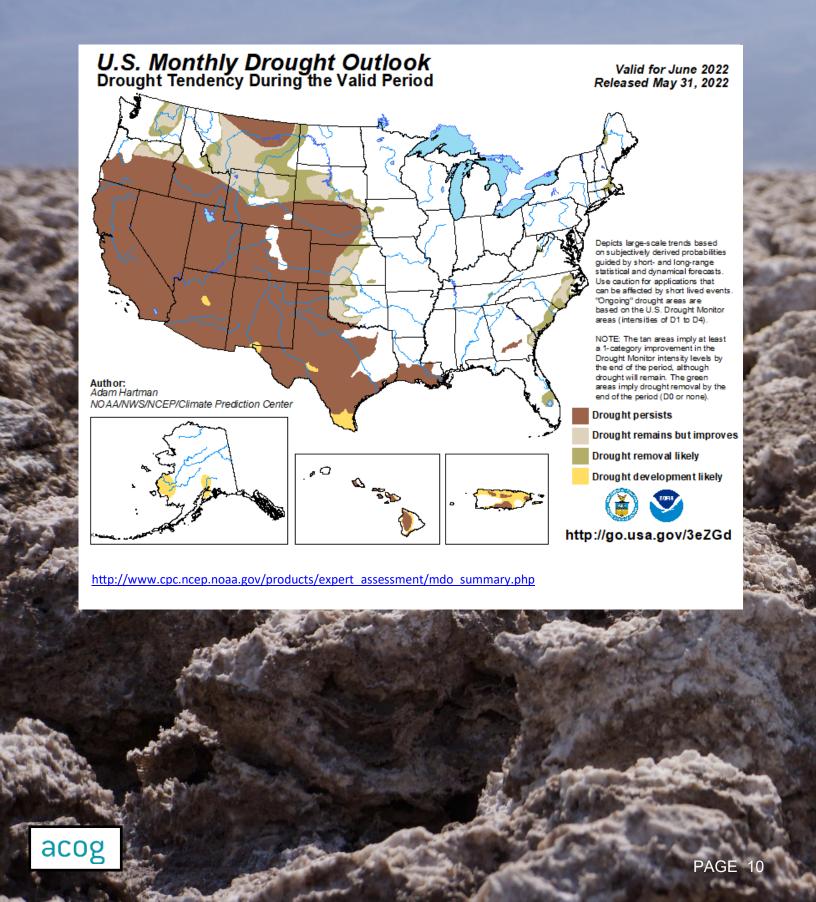
U.S. Drought Monitor Nationwide Map



PAGE 9

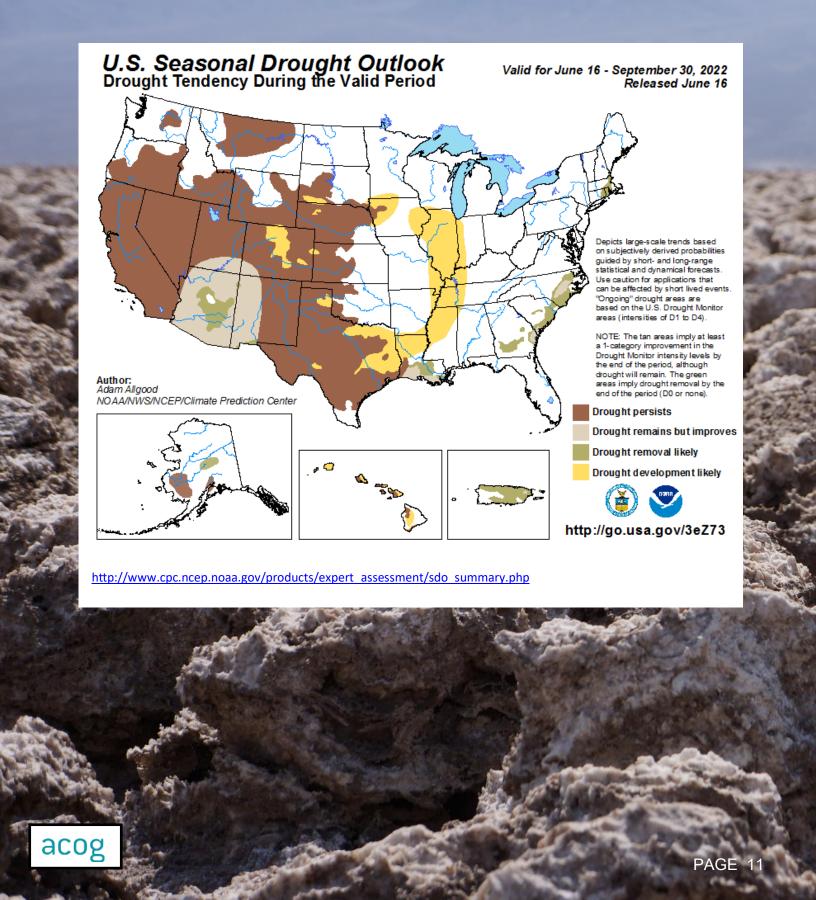
U.S. Drought Monitor

Monthly Drought Outlook Map

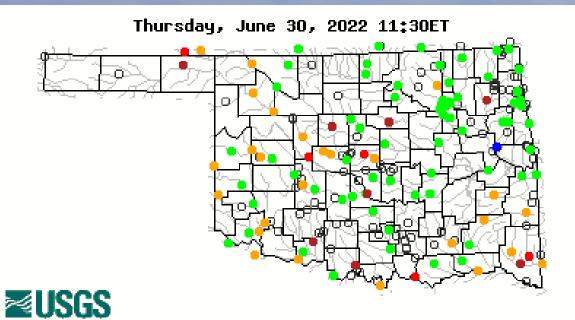


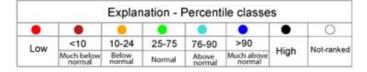
U.S. Drought Monitor

Seasonal Drought Outlook Map

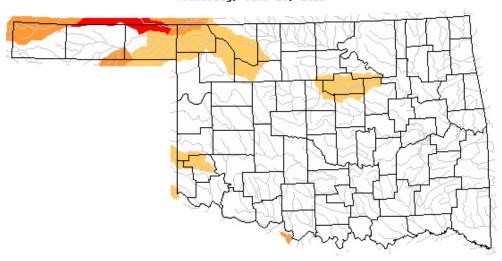


USGS Streamflow Data





Hednesday, June 29, 2022





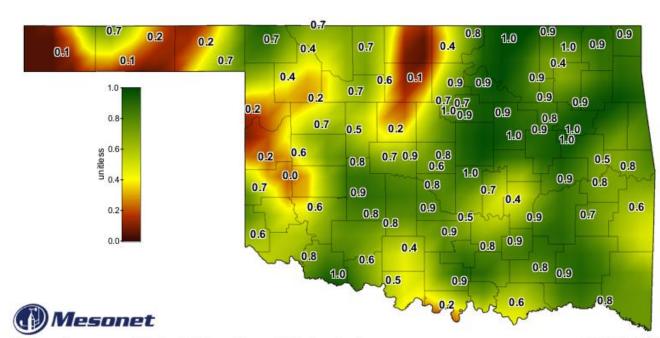
Below normal 28-day average streamflow

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		

https://waterdata.usgs.gov/ok/nwis/rt

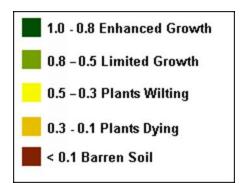
https://waterwatch.usgs.gov/index.php?
id=pa28d dry&sid=w map|m pa28d dwc&r=ok

SOIL MOISTURE MAP



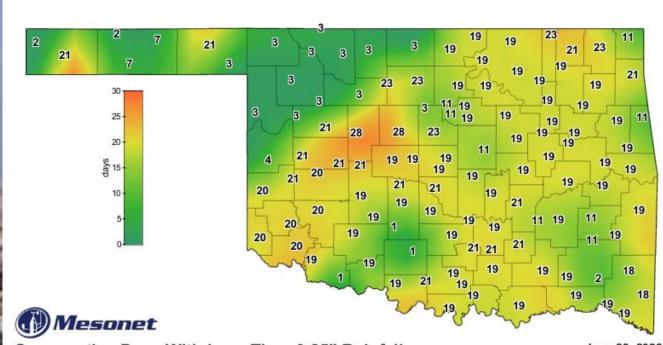
1-day Average 24-inch Fractional Water Index

June 29, 2022 reated 7:30:14 AM June 30, 2022 CDT. @ Copyright 2022



http://www.mesonet.org/index.php/weather/map/24-inch_fractional_water_index/soil_moisture

CONSECUTIVE DAYS WITHOUT RAINFALL MAP

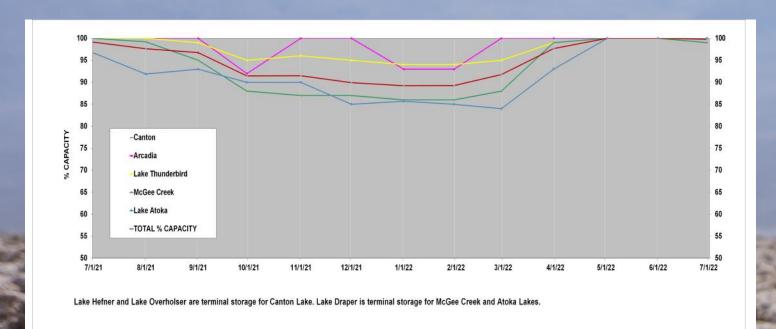


Consecutive Days With Less Than 0.25" Rainfall

June 29, 2022 Created 8:15:02 AM June 30, 2022 CDT. @ Copyright 2022

http://www.mesonet.org/index.php/weather/map/ consecutive_days_with_less_than_0.25_inches_Rainfall/rainfall

Percent of Surface Water Conservation Storage Central OK Reservoirs

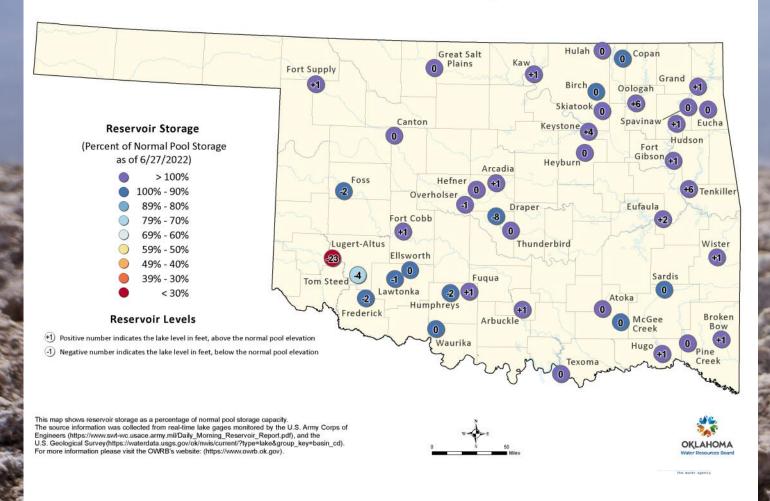


		% CHANGE FROM
LAKE	% CAPACITY	6/1/2022
Canton	100.0	0.0
Arcadia	100.0	0.0
Lake Thunderbird	100.0	0.0
McGee Creek	99.0	-1.0
Lake Atoka	100.0	0.0
TOTAL % CAPACITY	99.8	-0.2

https://www.owrb.ok.gov/supply/drought/reservoirstorage.php

The graph is the amount of water stored in five major lakes that supply water to central Oklahoma as a percent of capacity over the past year.

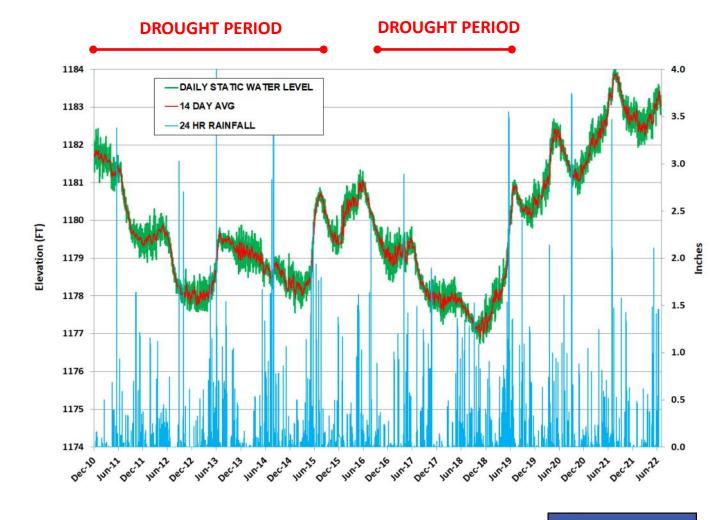
Oklahoma Reservoir Levels and Storage as of 6/27/2022



https://www.owrb.ok.gov/supply/drought/reservoirstorage.php



Groundwater Levels Spencer Mesonet Station



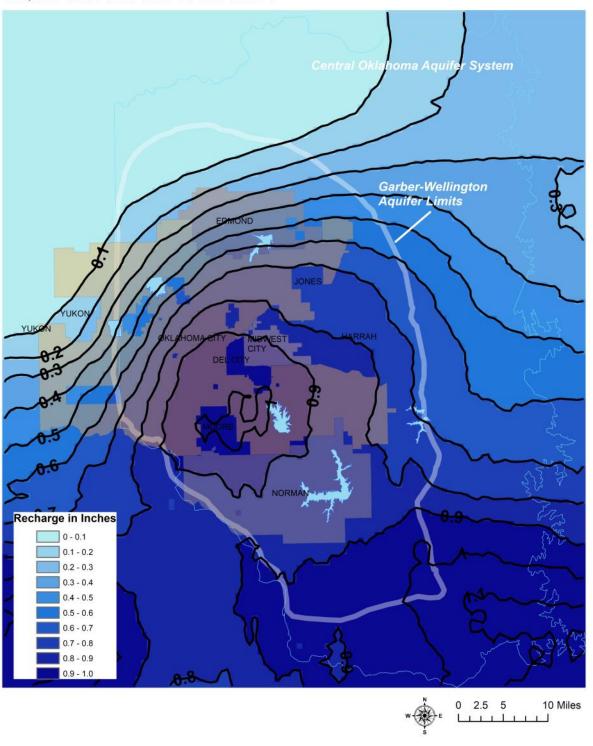
http://www.mesonet.org/index.php/weather/groundwater





Recharge Map Central Oklahoma Aquifer System

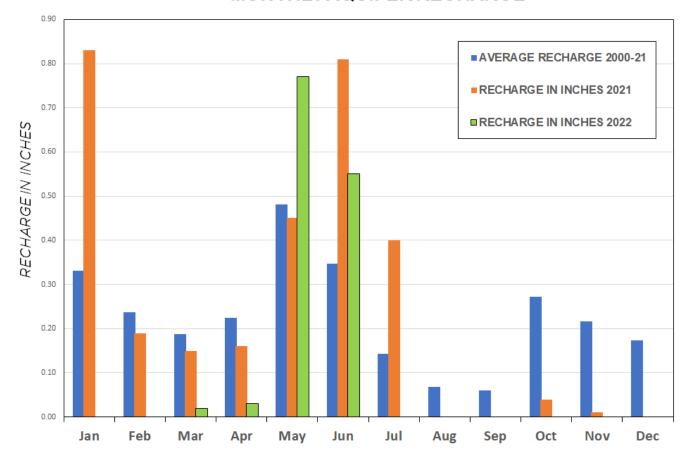
AQUIFER RECHARGE JUNE 2022



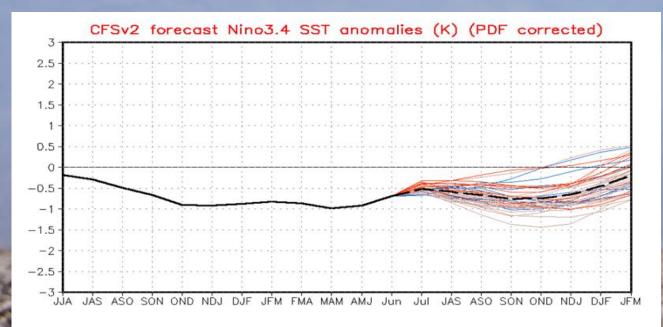
Recharge Charts Central Oklahoma Aquifer System



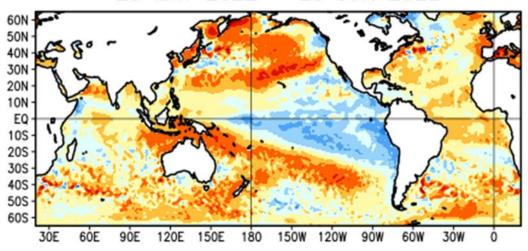
MONTHLY AQUIFER RECHARGE



ENSO Cycle Recent Evolution, Current Status and Predictions



Average SST Anomalies 29 MAY 2022 - 25 JUN 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.
- Though La Niña is favored to continue through the end of the year, the odds for La Niña decrease into the Northern Hemisphere late summer (52% chance in July-September 2022) before slightly increasing through the Northern Hemisphere fall and early winter 2022 (58-59% chance).

