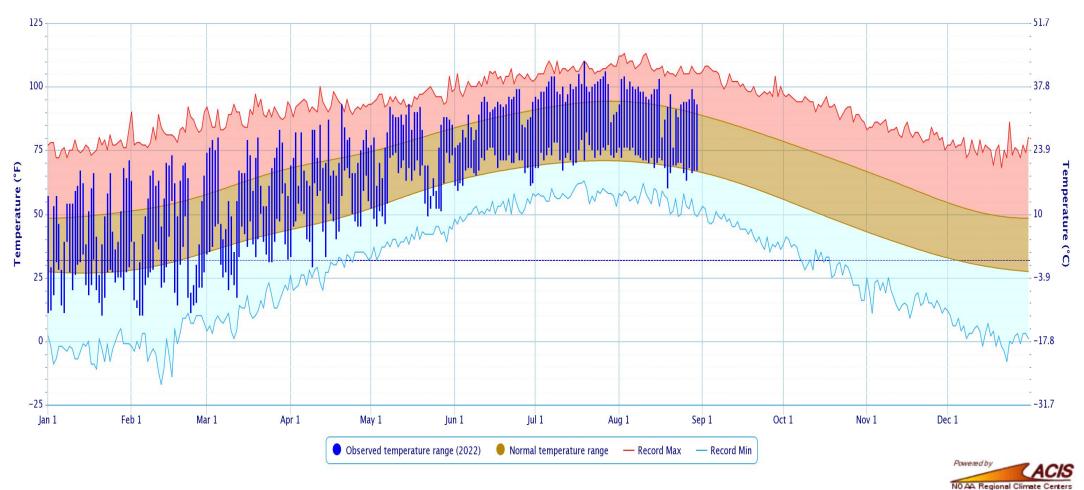


Temperature Plot for Oklahoma City, Oklahoma for 2022



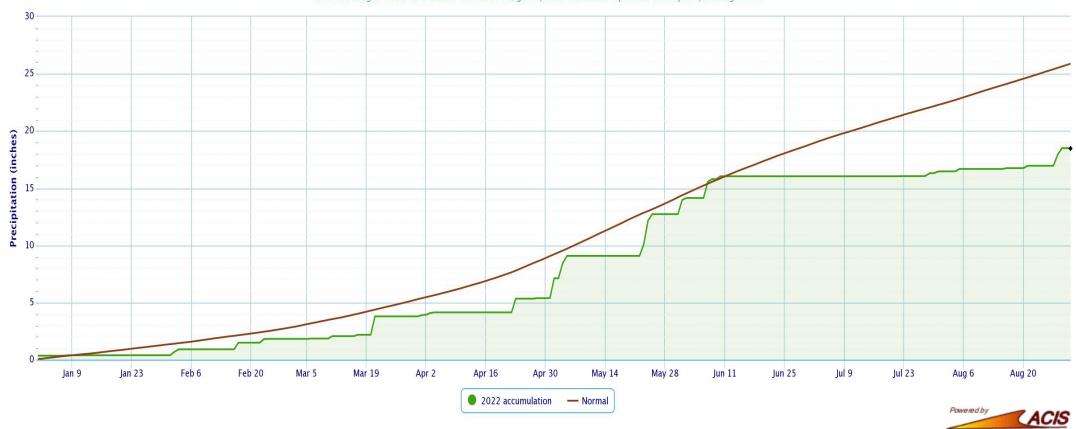


Precipitation Plot for Oklahoma City, Oklahoma for 2022



Accumulated Precipitation - Oklahoma City Area, OK (ThreadEx)

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

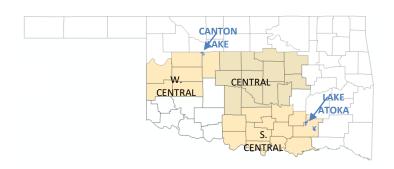




Rainfall Summaries by Oklahoma Climate Division



Calendar Year 01-Jan-2021 though			30-Aug-2022	 		
Climate Divi- sion	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 peri- ods)	Driest on Record	Wettest on Rec- ord
W. Central	15.89"	-4.07"	80%	29th driest	7.15" (2011)	32.23" (2007)
Central	23.47"	-2.11"	92%	49th driest	8.59" (1936)	44.43" (2007)
S. Central	20.82"	-6.12"	77%	19th driest	11.94" (2011)	48.47" (2015)
State wide	21.23"	-3.51"	86%	28th drie <i>s</i> t	9.90" (1936)	36.68" (2015)
Water Ye	Water Year: 01-Oct-2021 through					
Climate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 peri- ods)	Driest on Record	Wettest on Rec- ord
W. Central	18.21"	-7.29"	71%	19th driest	11.69" (2010-11)	38.38" (2006-07)
Central	28.98"	-4.71"	86%	45th drie <i>s</i> t	15.93" (1935-36)	51.43" (2006-07)
S. Central	26.02"	-10.61"	71%	11th driest	15.79" (1955-56)	57.30" (2014-15)
State wide	26.78"	-6.04"	82%	24th driest	17.81" (1935-36)	44.79" (2018-19)
Summer Jun 01 through		30-Aug-2022	 			
Climate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 peri- ods)	Driest on Record	Wettest on Rec- ord
W. Central	8.67"	-0.48"	95%	51st wettest	2.58" (1980)	15.95" (1995)
Central	7.17"	-3.60"	67%	25th driest	2.15" (1936)	24.11" (2007)
S. Central	7.38"	-2.69"	73%	32nd drie <i>s</i> t	1.69" (2011)	19.00" (1945)
State wide	7.65"	-2.60"	75%	26th drie <i>s</i> t	2.93" (1936)	17.72" (2007)



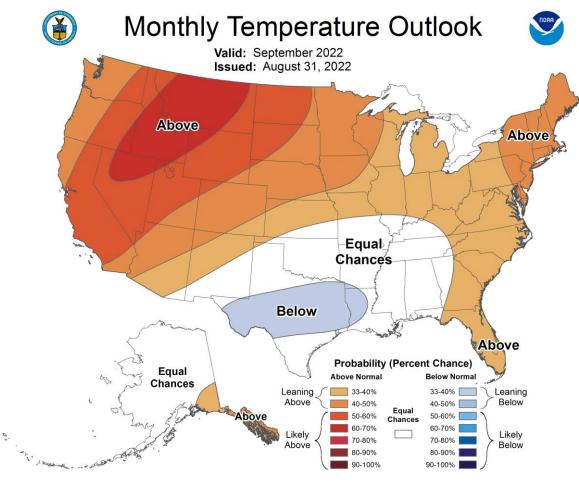
The climate divisions shown include statewide totals, central Oklahoma totals, and totals for the two divisions which have Canton Lake and Lake Atoka—major water sources for central Oklahoma.



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

NOAA One-Month Temperature Outlook





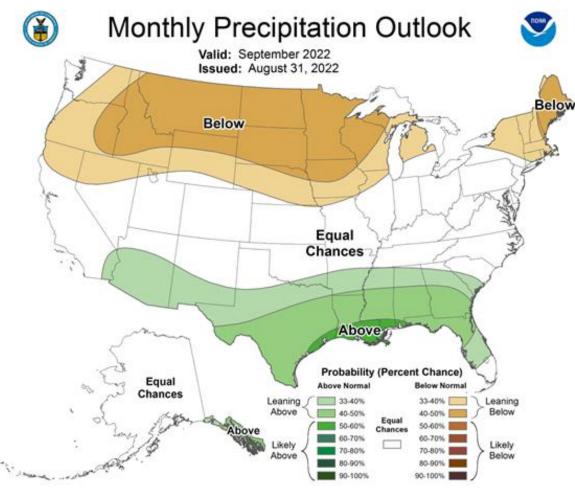
White areas are shown as EC (Equal Chance) on these maps represent areas where there are no strong climate signals from the climate tools to have skill in preferring one category over another.

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





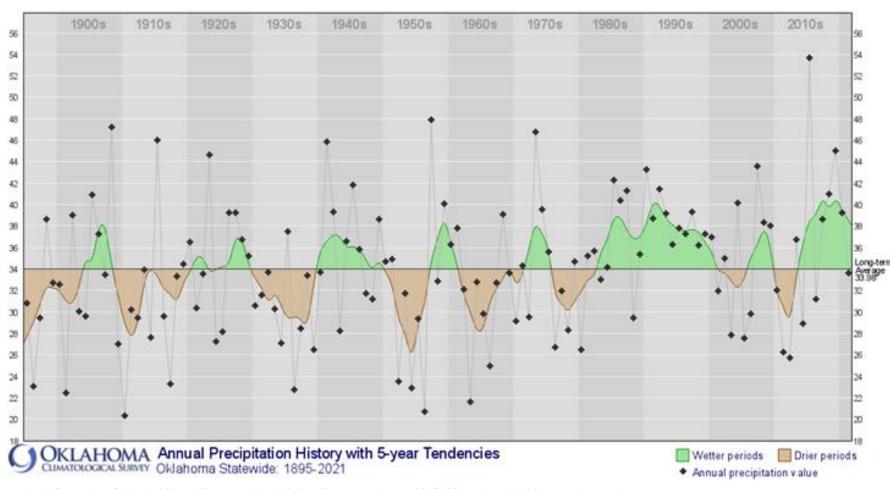
Climate Prediction Center - Updated OFFICIAL 30-Day Forecasts (noaa.gov)

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Annual Precipitation History with 5-Year Tendencies





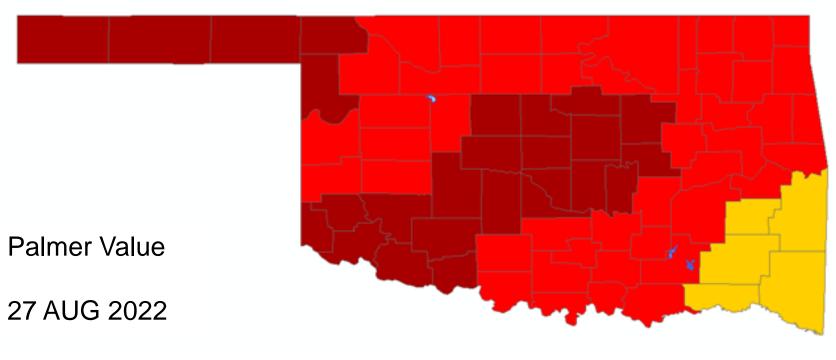
This graph shows the cyclical nature of wet and drought periods in Oklahoma. The black dots represent the annual precipitation for that particular year. The line represents the annual precipitation data smoothed over five years.

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.

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

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.





http://www.cpc.ncep.noaa.gov/products/analysis_monitoring/cdus/palmer_drought/wpdsouth.txt

U.S. Drought Monitor - Oklahoma

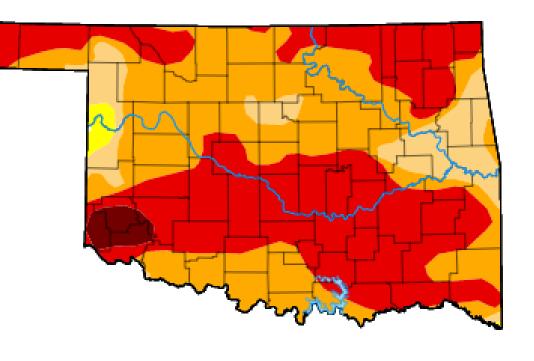


Abnormal dryness or drought are currently affecting approximately 3,748,266 people in Oklahoma.

Week	Date	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	2022-08-23	0.02	99.98	98.64	89.68	48.60	2.19
Last Week	2022-08-16	0.00	100.00	99.33	90.63	59.15	3.50
3 Months Ago	2022-05-24	46.90	53.10	43.63	35.97	18.25	2.93
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	2021-08-24	88.12	11.88	4.74	0.00	0.00	0.00



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





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

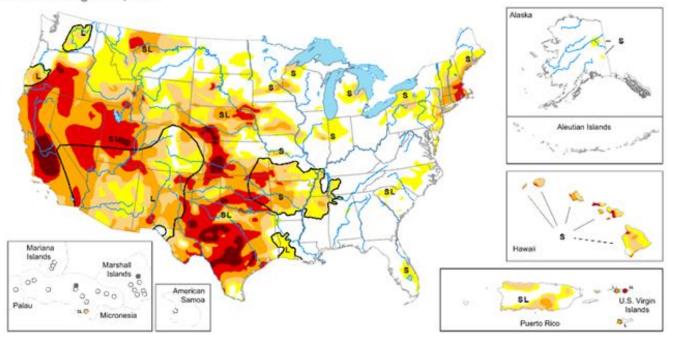
D3 - Extreme Drought D4 - Exceptional Drought

U.S. Drought Monitor Nationwide Map



Map released: August 25, 2022

Data valid: August 23, 2022



United States and Puerto Rico Author(s):

Deborah Bathke, National Drought Mitigation Center

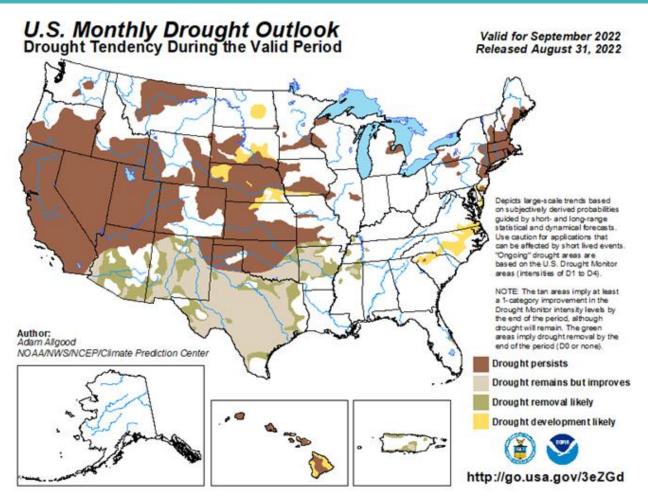
Pacific Islands and Virgin Islands Author(s): Ahira Sanchez-Lugo. NOAA/NCEI





U.S. Drought Monitor Monthly Drought Outlook Map

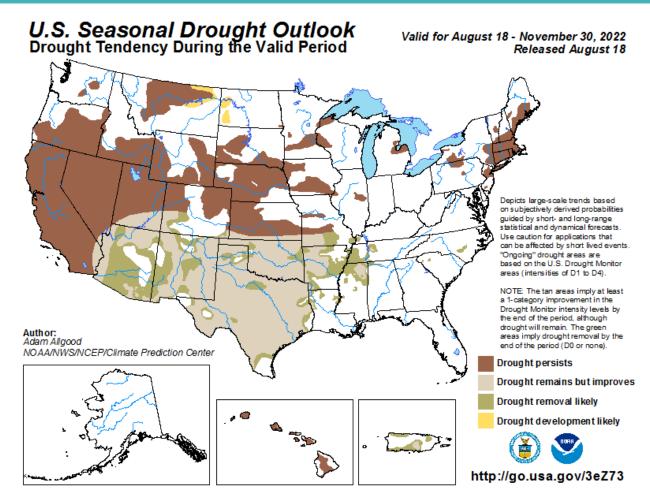




http://www.cpc.ncep.noaa.gov/products/expert assessment/mdo summary.php

U.S. Drought Monitor Seasonal Drought Outlook Map



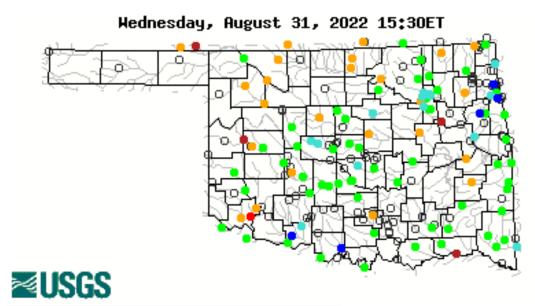


http://www.cpc.ncep.noaa.gov/products/expert assessment/mdo summary.php



USGS Streamflow Data





Explanation - Percentile classes								
•	•	•	•		•	•	0	
Low	<10	10-24	25-75	76-90	>90	11.0	Not-ranked	
	Much below normal	Below normal	Normal	Above normal	Much above normal	High		

Below normal 28-day average streamflow

■USGS

Tuesday, August 30, 2022

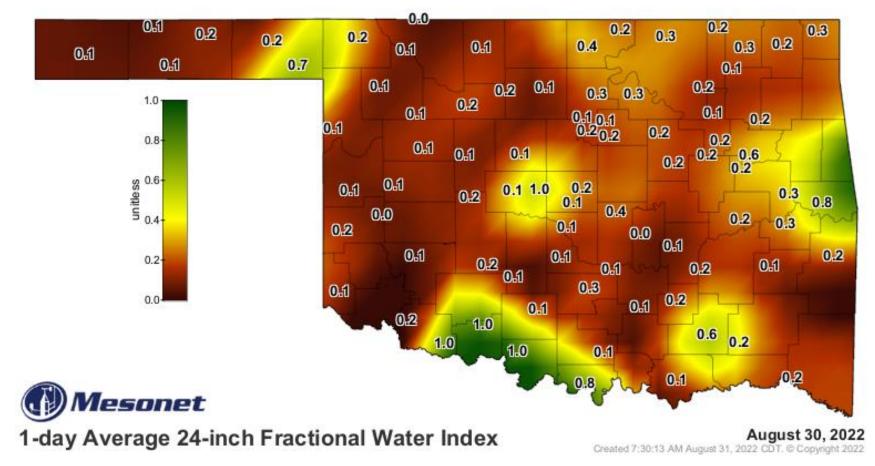
Explanation - Percentile classes							
Low	<=5	6-9	10-24	Insufficient data			
Extreme hydrologic drought		Moderate hydrologic drought	Below normal	for a hydrolog is region			

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



SOIL MOISTURE MAP





1.0 - 0.8 Enhanced Growth

0.8 - 0.5 Limited Growth

0.5 - 0.3 Plants Wilting

0.3 - 0.1 Plants Dying

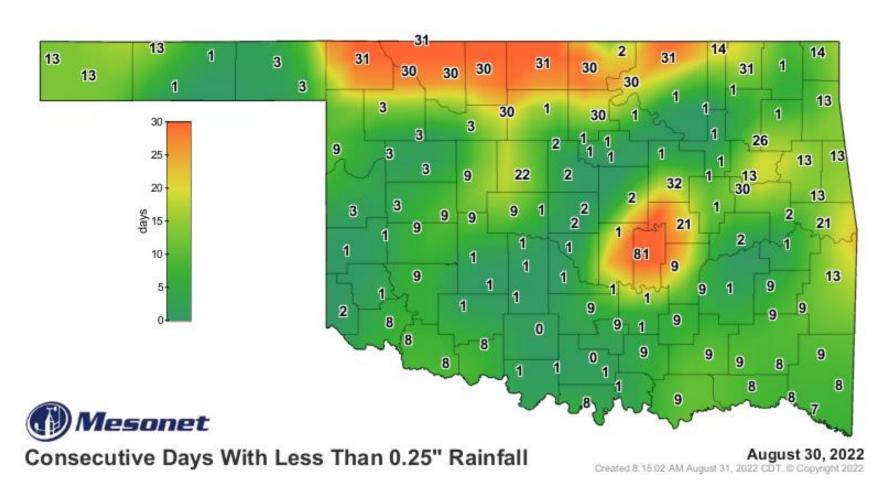
< 0.1 Barren Soil

http://www.mesonet.org/index.php/weather/map/24-inch fractional water index/soil moisture



CONSECUTIVE DAYS WITHOUT RAINFALL MAP



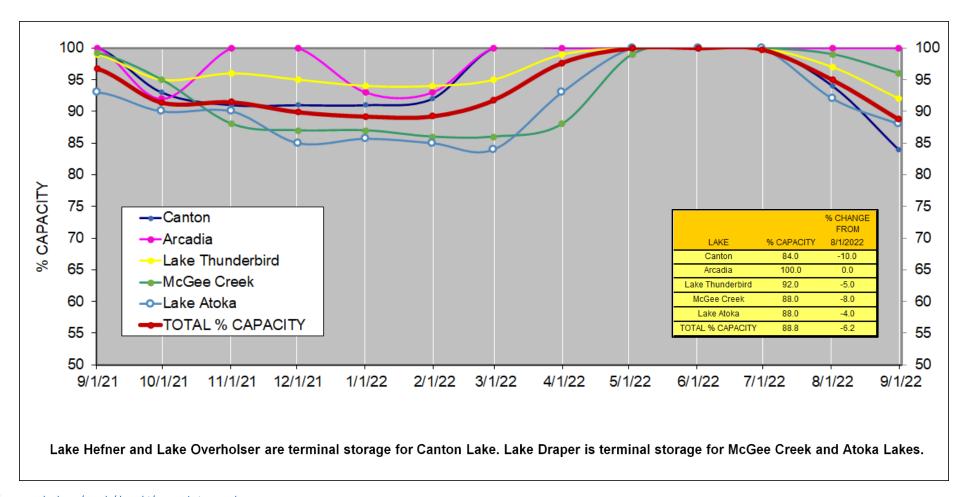


http://www.mesonet.org/index.php/weather/map/consecutive days with less than 0.25 inches Rainfall/rainfall



% of Surface Water Conservation Capacity Central OK Reservoirs





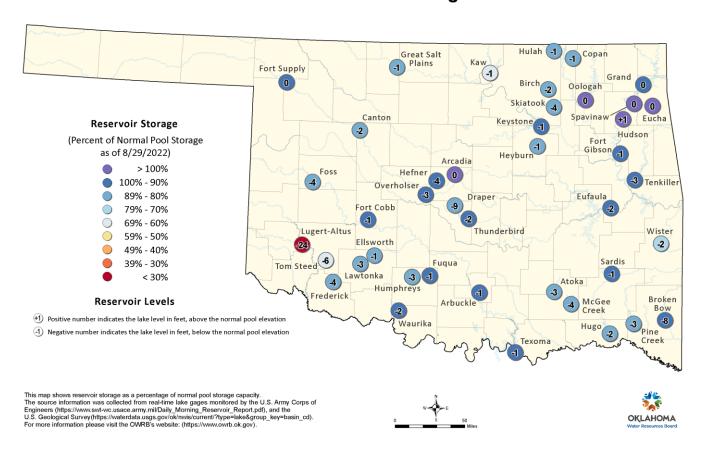
https://www.owrb.ok.gov/supply/drought/reservoirstorage.php



Oklahoma Reservoir Levels and Storage



Oklahoma Reservoir Levels and Storage as of 8/29/2022

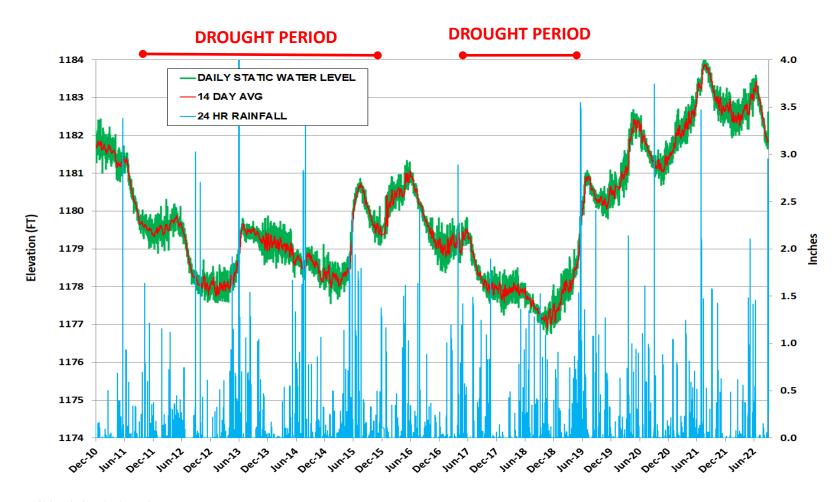


https://www.owrb.ok.gov/supply/drought/reservoirstorage.php



Groundwater Levels Spencer Mesonet Station

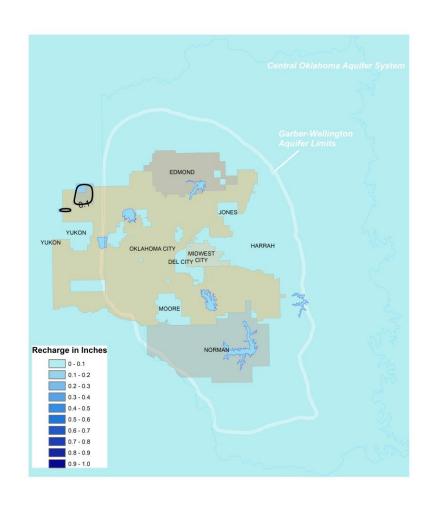




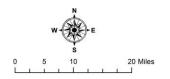


Oklahoma Reservoir Levels and Storage



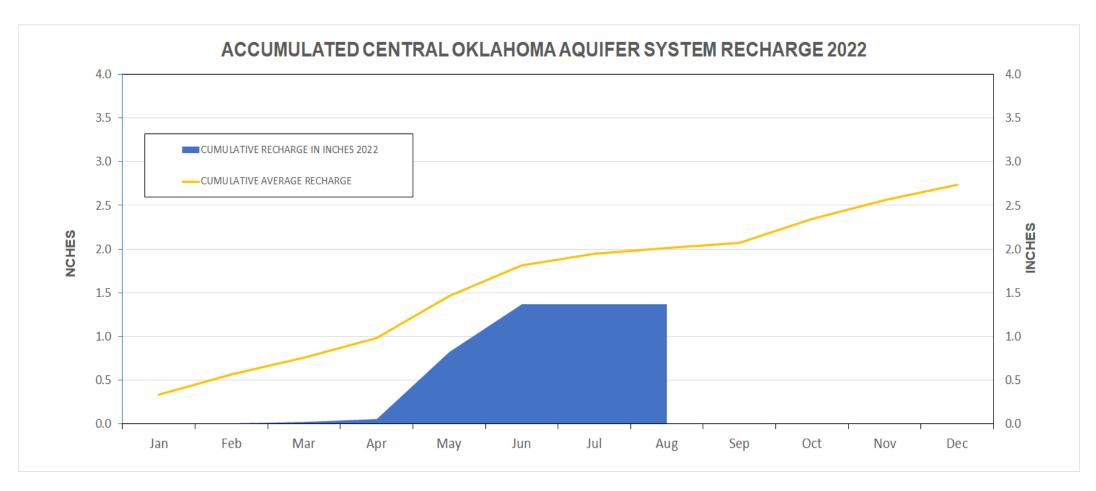


AQUIFER RECHARGE AUG 2022



Recharge Charts Central Oklahoma Aquifer System





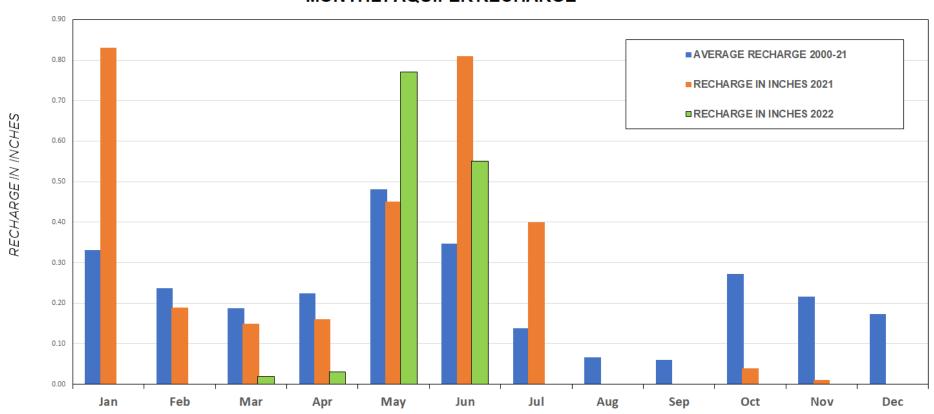
https://www.owrb.ok.gov/supply/drought/reservoirstorage.php



Recharge Charts Central Oklahoma Aquifer System



MONTHLY AQUIFER RECHARGE

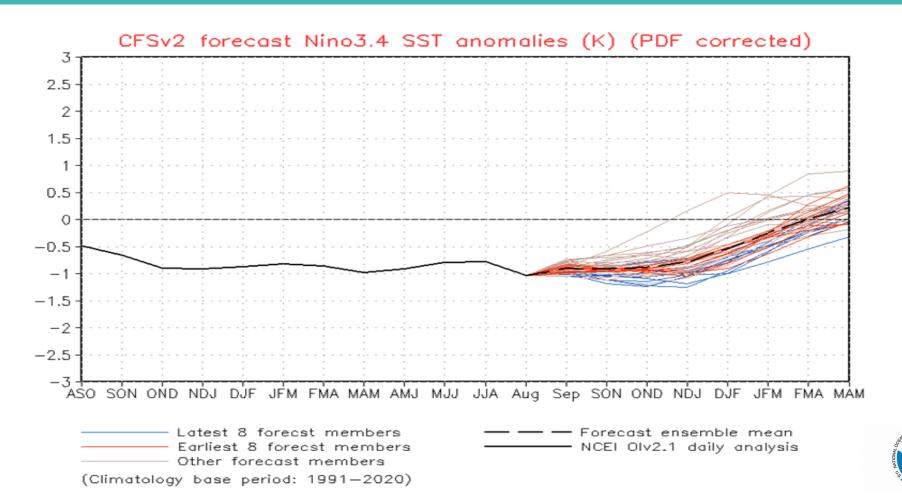


https://www.owrb.ok.gov/supply/drought/reservoirstorage.php



ENSO Cycle - Recent Evolution, Current Status and Predictions



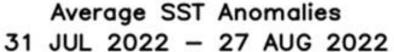


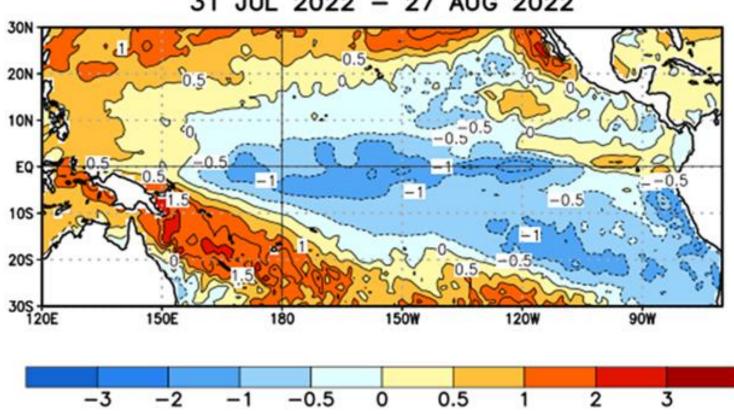




ENSO Cycle - Recent Evolution, Current Status and Predictions













ENSO Cycle - Recent Evolution, Current Status and Predictions





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 expected to continue, with chances for La Niña gradually decreasing from 86% in the coming season to 60% during December-February 2022-23.









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SUMMARY



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SUBJECT TITLE MOODERN - 50 pts



