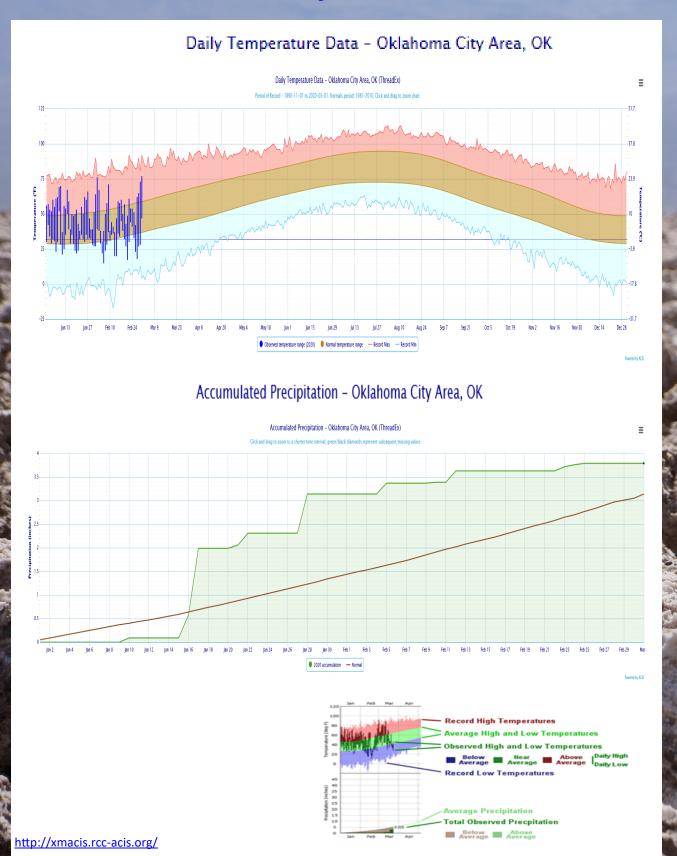




Temperature and Precipitation Plot for Oklahoma City, Oklahoma for 2020



Rainfall Summaries by Oklahoma Climate Division

Calendar Year 01-Jan-2020 though 01-Mar-2020

Climate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 peri- ods)	Driest on Record	Wettest on Record
W. Central	2.41"	+0.28"	113%	29th wettest	0.13" (1970)	5.11" (1949)
Central	4.75"	+1.43"	143%	15th wettest	0.44" (1976)	7.84" (1949)
S. Central	7.93"	+3.49"	179%	6th wettest	0.65" (1976)	11.02" (1932)
Statewide	5.28"	+1.81"	152%	10th wettest	0.59" (1976)	7.63" (1949)

Water Year: 01-Oct-2019 through 01-Mar-2020

Climate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 peri- ods)	Driest on Record	Wettest on Record
W. Central	5.87"	-1.80"	77%	41st driest	1.48" (1966-67)	15.99" (1986-87)
Central	12.07"	+0.64"	106%	26th wettest	3.05" (2005-06)	22.16" (1984-85)
S. Central	17.87"	+3.74"	126%	16th wettest	3.74" (1966-67)	26.55" (2000-01)
Statewide	13.75"	+2.20"	119%	18th wettest	3.57" (1966-67)	19.06" (1984-85)

Winter 01-Dec through 01-Mar-2020

Climate Division	Total Rainfall	Departure from Normal	Pct of Normal	Rank since 1921 (88 peri- ods)	Driest on Record	Wettest on Record
W. Central	3.47"	+0.12"	103%	34th wettest	0.54" (2005-06)	8.12" (1959-60)
Central	5.61"	+0.30"	106%	29th wettest	0.90" (2005-06)	14.09" (1984-85)
S. Central	8.93"	+1.90"	127%	21st wettest	1.99" (1966-67)	13.14" (1937-38)
Statewide	6.40"	+0.86"	116%	23rd wettest	1.52" (2005-06)	10.52" (1984-85)

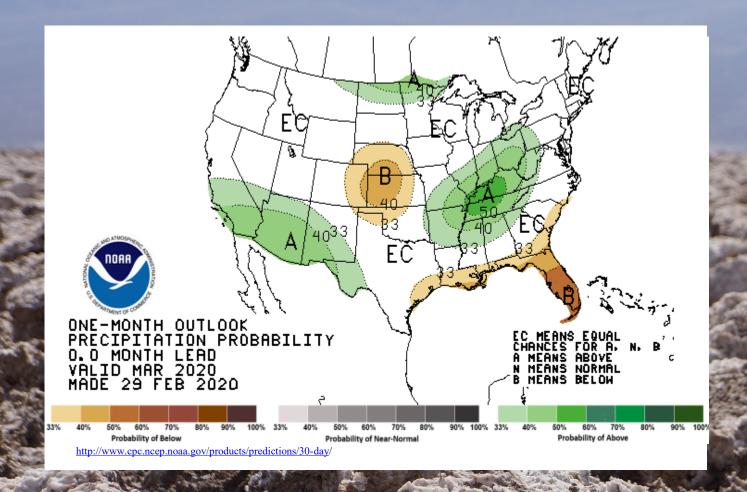
The climate divisions shown include statewide totals, central Oklahoma totals, and totals for the two divisions which have Canton Lake and Lake Atoka—major water sources for central Oklahoma.



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



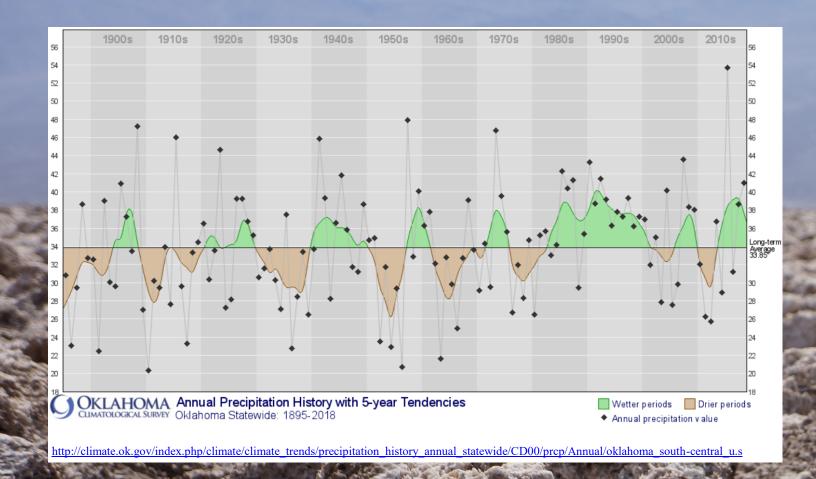
NOAA One-Month Outlook



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.

Annual Precipitation Historywith 5-Year Tendencies



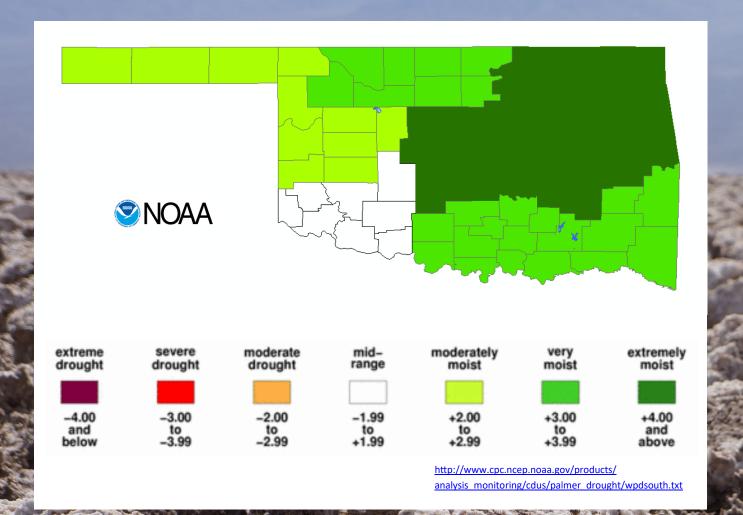
This graph shows the cyclical nature of wet and drought periods in Oklahoma. The black dots represent the annual precipitation for that particular year. The line represents the annual precipitation data smoothed over five years.

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 29 FEB 2020



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	2020-02-25	86.53	13.47	4.66	0.84	0.00	0.00
Last Week	2020-02-18	85.83	14.17	4.66	0.85	0.00	0.00
3 Months Ago	2019-11-26	76.05	23.95	12.58	3.67	0.00	0.00
Start of Calendar Year	2019-12-31	76.45	23.55	10.47	3.64	0.00	0.00
Start of Water Year	2019-10-01	71.94	28.06	11.08	1.01	0.00	0.00
One Year Ago	2019-02-26	88.61	11.39	0.98	0.00	0.00	0.00

U.S. Drought Monitor Oklahoma

Abnormal dryness or drought are currently affecting approximately 29,485 people in Oklahoma.





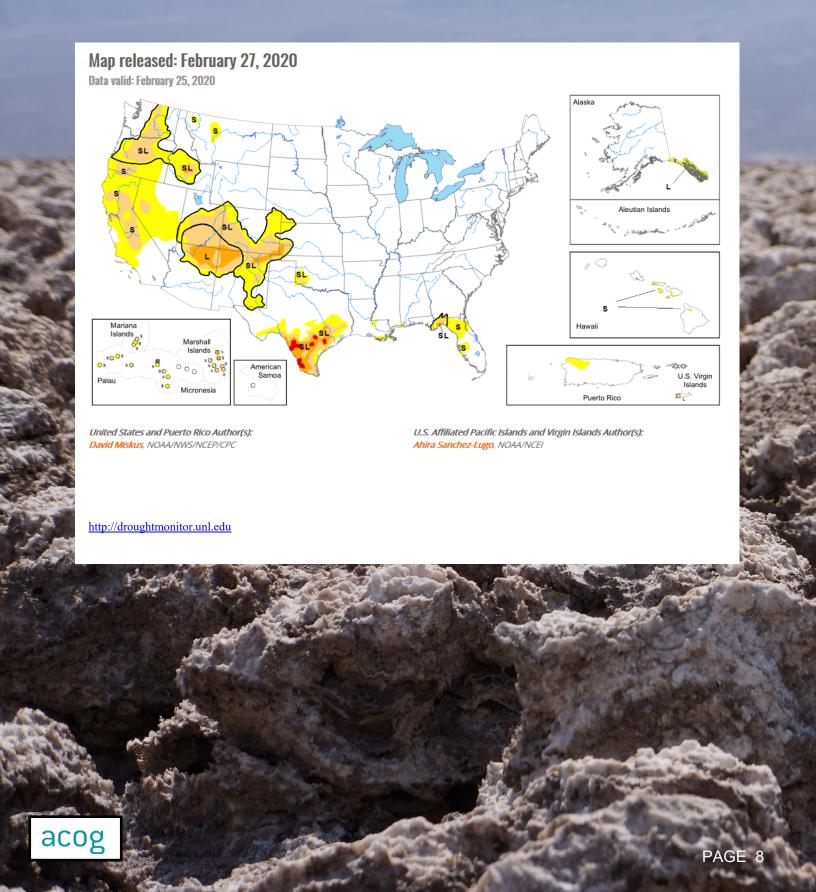


https://droughtmonitor.unl.edu/CurrentMap/ StateDroughtMonitor.aspx?OK

Intensity:

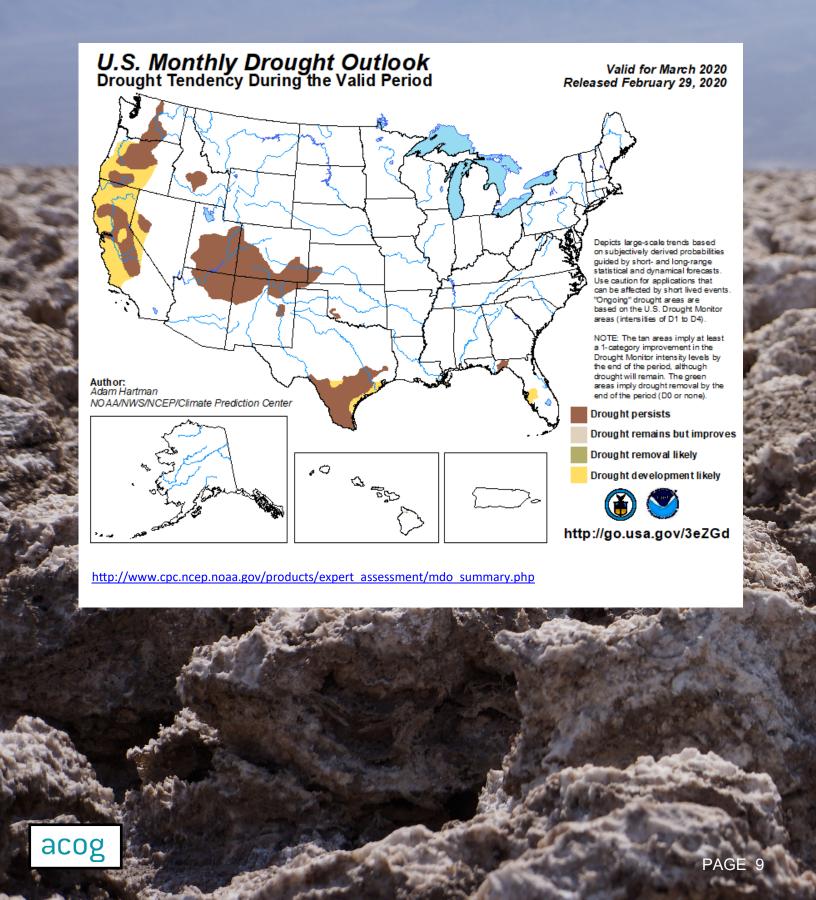
D0 - Abnormally Dry
D1 - Moderate Drought
D2 - Severe Drought
D2 - Severe Drought

U.S. Drought Monitor Nationwide Map



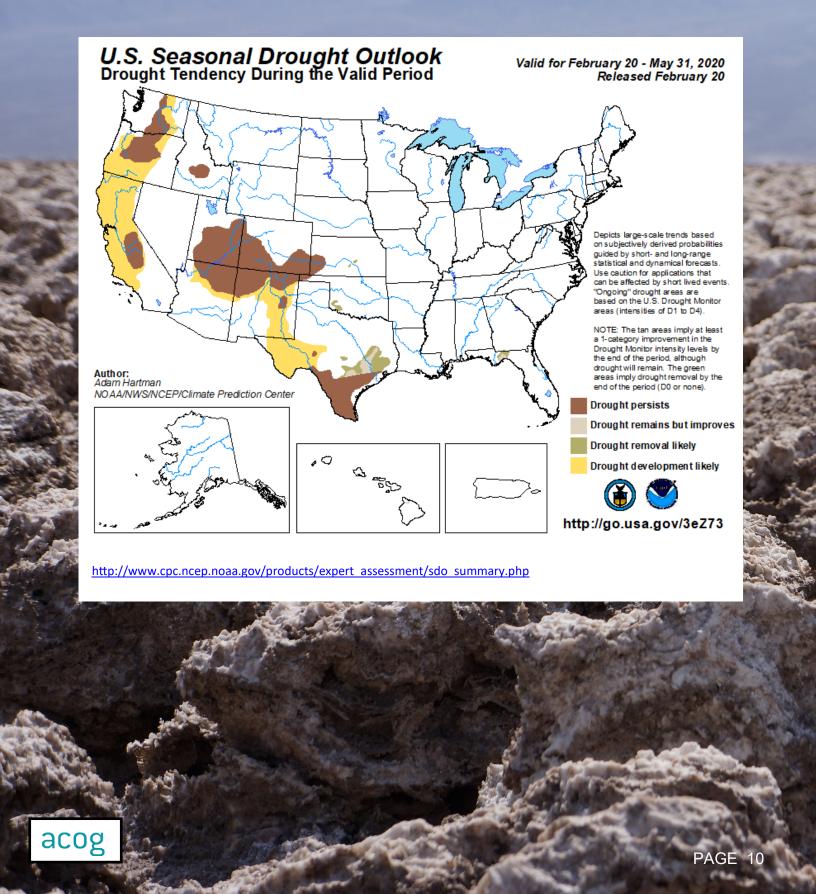
U.S. Drought Monitor

Monthly Drought Outlook Map

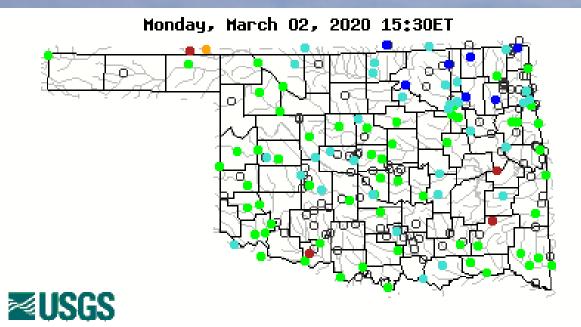


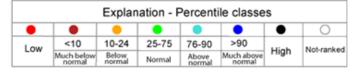
U.S. Drought Monitor

Seasonal Drought Outlook Map



USGS Streamflow Data





Sunday, March 01, 2020





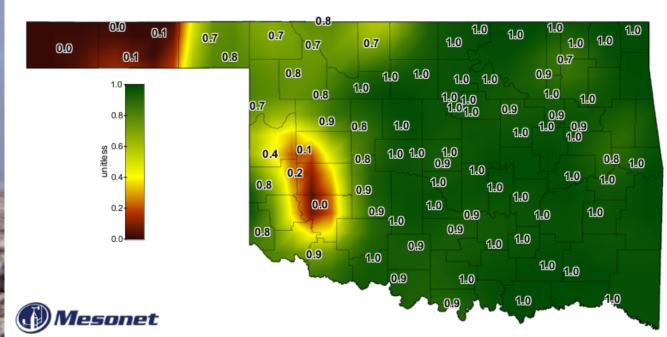
Below normal 28-day average streamflow

Explanation - Percentile classes					
Low	4-5	0.0	10.04		
Low	<=5	6-9	10-24	Insufficient data for a hydrologic	
Extreme hydrologic drought	Severe hydrologic drought	Moderate hydrologic drought	Below normal	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



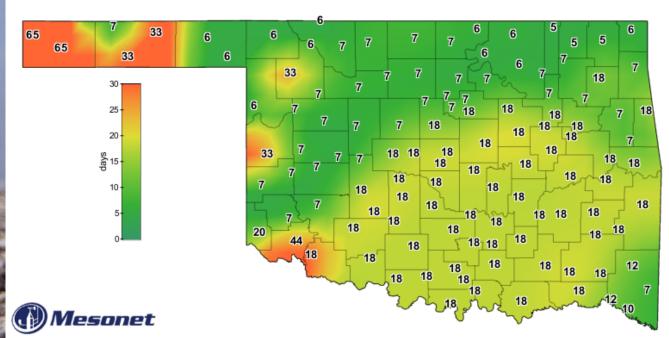
1-day Average 24-inch Fractional Water Index

March 1, 2020 Created 6:30:14 AM March 2, 2020 CST. © Copyright 2020



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

CONSECUTIVE DAYS WITHOUT RAINFALL MAP

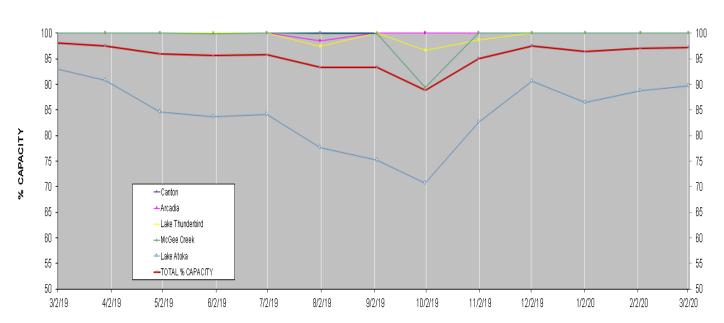


Consecutive Days With Less Than 0.25" Rainfall

March 1, 2020 Created 7:15:02 AM March 2, 2020 CST. © Copyright 2020

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



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

		% CHANGE FROM
LAKE	% CAPACITY	2/3/2020
Canton	100.0	0.0
Arcadia	100.0	0.0
Lake Thunderbird	100.0	0.0
McGee Creek	100.0	0.0
Lake Atoka	89.6	0.8
TOTAL % CAPACITY	97.2	0.2

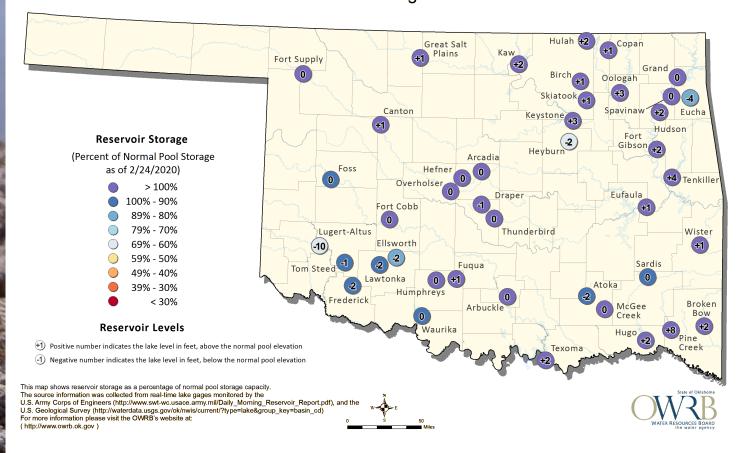
http://www.swt-wc.usace.army.mil/Daily_Morning_Reservoir_Report.pdf

http://waterdata.usgs.gov/ok/nwis/dv/?site_no=07333010&agency_cd=USGS&referred_module=sw

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 Surface Water Resources

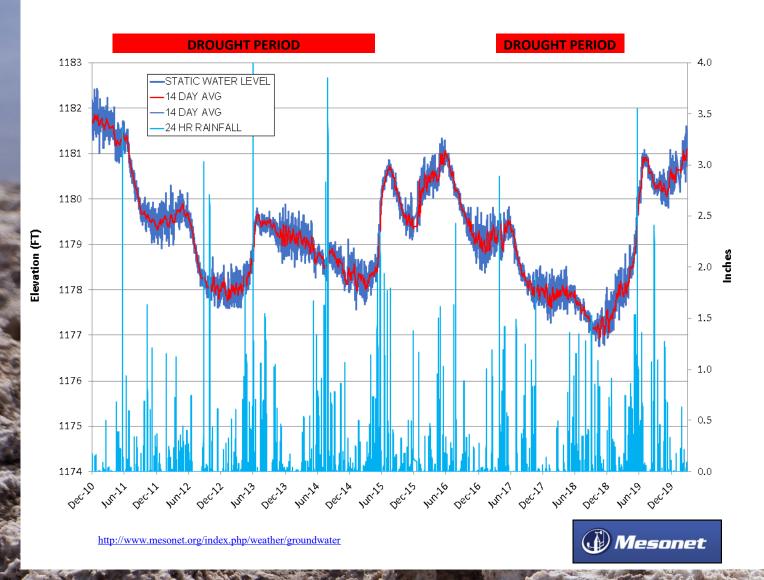
Reservoir Levels and Storage as of 2/24/2020



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



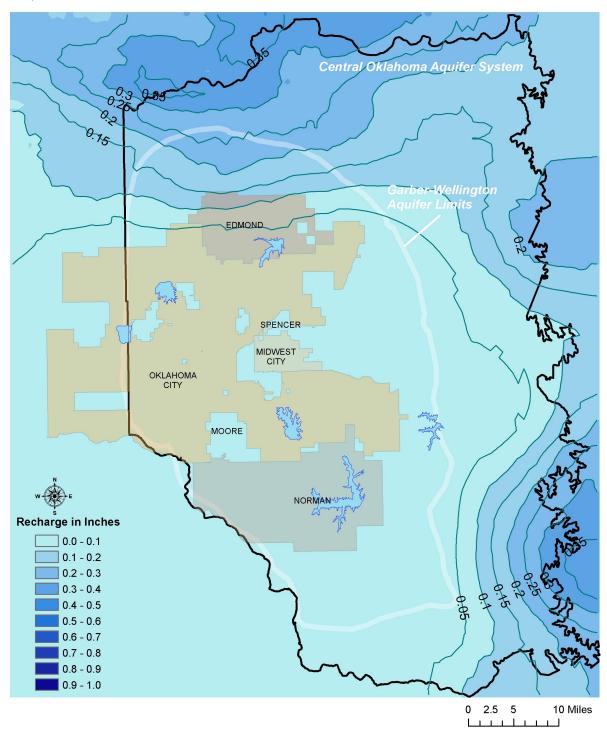
Groundwater Levels Spencer Mesonet Station



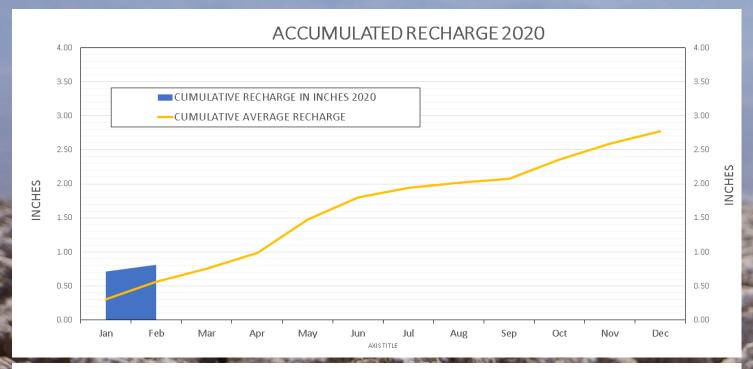


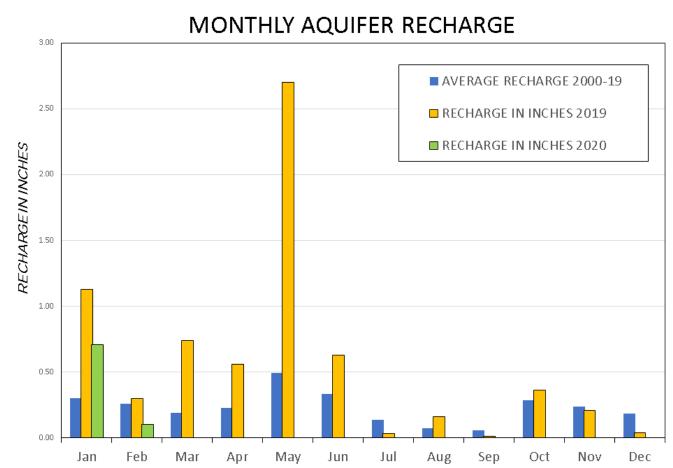
Recharge Map Central Oklahoma Aquifer System

AQUIFER RECHARGE FEBRUARY 2020

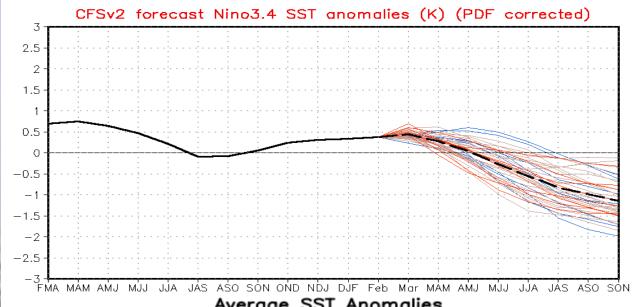


Recharge Charts Central Oklahoma Aquifer System

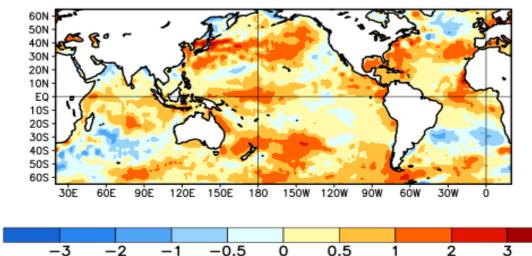




ENSO Cycle Recent Evolution, Current Status and Predictions



Average SST Anomalies 2 FEB 2020 - 1 MAR 2020



Summary

ENSO Alert System Status: Not Active

- ENSO-neutral conditions are present.
- Equatorial sea surface temperatures (SSTs) are near-to-above average across the Pacific Ocean.
- The tropical atmospheric circulation is generally consistent with ENSO-neutral.
- ENSO-neutral is favored through Northern Hemisphere spring 2020 (~60% chance), continuing through summer 2020 (~50% chance).

